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[Decisions of the United States Court of Customs and Patent Appeals are indicated by a star (*) and of the Supreme Court of the United States by the letter (*).]

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Adam, J. N., & Co., Buffalo, N. Y. Boots and shoes. 267,976; Mar. 4; Serial No. 287,322; published Dec. 3, 1929. Class 39.

Air-Way Electric Appliance Corporation, Toledo, Ohio. Chemical compositions. 268,046; Mar. 4; Serial No. 289,812; published Dec. 17, 1929. Class 6.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 78,760; renewed July 12, 1930.

Albers Bros. Milling Co., San Francisco, Calif. Poultry food. 268,090; Mar. 4. Class 46.

Alexander, G. W., & Co., Inc., Reading, Pa. Fur-felt hats. 268,028; Mar. 4; Serial No. 291,548; published Dec. 10, 1929. Class 39.

Allen, Edgar, & Co. Limited, Sheffield, England. Metal castings and forgings. 78,670; renewed July 5, 1930.

Alligator Company, The, Wilmington, Del., and St. Louis, Mo. Waterproof clothing. 268,072; Mar. 4; Serial No. 288,684; published Dec. 17, 1929. Class 39.

American Apothecaries Company, New York, N. Y. Chemical preparations. 77,600; renewed Apr. 26, 1930.

American Cine Screen Co., St. Louis, Mo. Moving-picture screens. 267,909; Mar. 4; Serial No. 276,823; published Feb. 26, 1929. Class 26.

American Diatom Company, Gloucester City, N. J., and Philadelphia, Pa. Treated diatomaceous earth. 268,064-5; Mar. 4; Serial Nos. 286,853-4; published Nov. 19, 1929. Class 1.

American Fruit Product Company, Rochester, assignor to Duffy-Mott Company, Inc., New York, N. Y. Vinegar. 78,761; renewed July 12, 1930.

American Hardware Corporation, The. (See Russell & Erwin Manufacturing Company, assignor.)

American Highway Service, Pineville, Ky. Road signs. 267,959; Mar. 4; Serial No. 288,738; published Dec. 3, 1929. Class 50.

American Sales Book Company. (See Carter-Crume Company, assignor.)

American Slicing Machine Company, Chicago, Ill. Slicing machinery. 267,972; Mar. 4; Serial No. 289,660; published Dec. 17, 1929. Class 23.

American Steam Pump Company, Battle Creek, Mich. Automatically-primed power pump units and pumping machinery and parts thereof. 267,876; Mar. 4; Serial No. 291,109; published Dec. 17, 1929. Class 23.

American Yvette Company, Inc., New York, N. Y. Face powder and lotions. 267,947; Mar. 4; Serial No. 280,753; published Dec. 17, 1929. Class 6.

Amiesite Asphalt Company of America, Philadelphia, Pa. Road-patching materials. 267,924; Mar. 4; Serial No. 271,848; published Dec. 17, 1929. Class 12.

Anderson-Prichard Oil Corporation, Oklahoma City, Okla. Petroleum by-product cut to specifications. 267,838; Mar. 4; Serial No. 291,422; published Dec. 17, 1929. Class 6.

Andrews, A. B., Company, assignor to Richmond Hosiery Mills, Rossville, Ga. Hosiery. 78,057; renewed May 31, 1930.

Archipenko, Alexander, New York, N. Y. Works of art. 267,961; Mar. 4; Serial No. 286,021; published Dec. 3, 1929. Class 50.

Arlette, Inc., Louisville, Kans. Solution for use in waving hair. 267,946; Mar. 4; Serial No. 280,980; published Nov. 19, 1929. Class 6.

Armand Company, The, Des Moines, Iowa. Rouge and lip stick. 268,098; Mar. 4. Class 6.

Atlas Tack Corporation, Fairhaven, Mass. Buttons. 268,075; Mar. 4; Serial No. 288,052; published Dec. 10, 1929. Class 40.

Audubon Wire Cloth Company, Audubon, N. J. Metal screening. 267,830; Mar. 4; Serial No. 288,214; published Dec. 17, 1929. Class 13.

Auslander, Jacob, & Son, Inc., New York, N. Y. Children's and misses' hats. 268,095; Mar. 4. Class 39.

B. V. D. Company, The, New York, N. Y., assignor to The B. V. D. Company, Inc., Baltimore, Md. Undershirts and underdrawers. 77,486; renewed Apr. 12, 1930.

Bacon Formula Company, Putnam, Conn. Cow medicine. 268,048; Mar. 4; Serial No. 291,045; published Dec. 10, 1929. Class 6.

Ballard & Ballard Co., Louisville, Ky. Wheat and self-rising flour. 267,781; Mar. 4; Serial No. 292,151; published Dec. 17, 1929. Class 46.

Bamberger, L., & Co., Newark, N. J. Hats, shoes; slippers, etc. 268,073; Mar. 4; Serial No. 288,633; published Dec. 3, 1929. Class 39.

Barium Reduction Corporation, Charleston, W. Va. Sodium sulphide. 267,916; Mar. 4; Serial No. 278,620; published Dec. 17, 1929. Class 6.

Bates Manufacturing Company, The, West Orange, N. J. Numbering machines. 267,861; Mar. 4; Serial No. 292,092; published Dec. 17, 1929. Class 26.

Beaver Dam Bottling Company, Beaver Dam, Wis. Ginger ale and lemon soda. 267,866; Mar. 4; Serial No. 291,512; published Dec. 17, 1929. Class 45.

Behning Piano Company, New York, N. Y. Pianos and player pianos. 78,484; renewed June 21, 1930.

Beiersdorf, P., & Co. Inc., New York, N. Y. Waxlike substance. 268,057; Mar. 4; Serial No. 290,206; published Dec. 10, 1929. Class 6.

Belgian Leather Corporation, New York, N. Y. Material composed of braided strips of leather with a cloth backing. 267,993; Mar. 4; Serial No. 289,000; published Dec. 10, 1929. Class 50.

Bell, W. P., & Company, Nashville, Tenn. Seed grains. 268,040; Mar. 4; Serial No. 290,004; published Nov. 19, 1929. Class 1.

Bergische Stahl-Industrie, Remscheid, Germany. Automobile wheels for pneumatic tires. 267,827; Mar. 4; Serial No. 289,707; published Dec. 17, 1929. Class 19.

Blackwood Coal & Coke Company, Philadelphia, Pa. Coal. 267,990; Mar. 4; Serial No. 289,565; published Nov. 26, 1929. Class 1.

Blair & Mortenson, doing business as Chromite Co., Chicago, Ill. Metallic wall covering. 267,859; Mar. 4; Serial No. 283,170; published Dec. 10, 1929. Class 12.

Blair & Mortenson, doing business as Chromite Co., Chicago, Ill. Metallic wall covering. 267,895; Mar. 4; Serial No. 283,169; published Dec. 10, 1929. Class 12.

Blasic, Antone, Sawtelle, Calif. Artificial trees. 267,852; Mar. 4; Serial No. 284,389; published Dec. 10, 1929. Class 50.

Bonat, Samuel, & Brother, New York, N. Y. Hair nets. 267,999; Mar. 4; Serial No. 291,713; published Dec. 17, 1929. Class 42.

Bonheur Company, The, Marcellus, to The Bonheur Company, Syracuse, N. Y. Lotion for the head and face. 77,974; renewed May 17, 1930.

Borst Engineering Corporation, Buffalo, N. Y. Automobile parts. 267,821; Mar. 4; Serial No. 290,541; published Dec. 17, 1929. Class 19.

Boutet, Charles, Paris, France. Cod-liver oil. 267,958; Mar. 4; Serial No. 288,843; published Dec. 17, 1929. Class 6.

Bowers, Robert L., Springfield, Mo. Doughnuts. 268,080; Mar. 4. Class 46.

Boye Needle Co., The, Chicago, Ill. Safety-razor blades. 267,971; Mar. 4; Serial No. 289,709; published Dec. 17, 1929. Class 23.

Brasco Manufacturing Company, Chicago, Ill. Metal storefront sash, metal jambs, transoms, etc. 267,809; Mar. 4; Serial No. 285,705; published Nov. 19, 1929. Class 12.

Bratter, Edward M., New York, N. Y., assignor to Federated Laboratories, Inc. Chemical preparation. 267,964; Mar. 4; Serial No. 288,517; published Dec. 17, 1929. Class 6.

Brink & Sons Inc., Chicago, Ill. Dressed poultry. 267,849; Mar. 4; Serial No. 284,897; published Dec. 17, 1929. Class 46.

Bryant, Joseph E., Los Angeles, Calif. Preparation for use in the treatment of the hair and scalp. 267,965; Mar. 4; Serial No. 288,459; published Dec. 3, 1929. Class 6.

Buchanan, Robert B., Memphis, Tenn. Garden, field, and lawn seeds. 267,907; Mar. 4; Serial No. 185,281; published Dec. 10, 1929. Class 1.

Bullion and Huey, Mount Pleasant, Tenn. Medicinal preparation. 268,059; Mar. 4; Serial No. 286,153; published Dec. 10, 1929. Class 6.

Burns, John R., doing business as J. R. Burns Shoe Co., Endicott, N. Y. Boots, shoes, and slippers. 268,071; Mar. 4; Serial No. 288,740; published Dec. 17, 1929. Class 39.

California Fruit Growers Exchange, Los Angeles, Calif. Citrus oils and citric acid. 267,936; Mar. 4; Serial No. 282,770; published Dec. 17, 1929. Class 6.

California Stucco Products Company of Missouri, Kansas City, Mo. Composition wax for stucco walls. 267,942; Mar. 4; Serial No. 289,004; published Dec. 3, 1929. Class 12.

Carborundum Company, The, Niagara Falls, N. Y. Machines and machine attachments. 267,942; Mar. 4; Serial No. 282,022; published Dec. 17, 1929. Class 23.

Carborundum Company, The, Niagara Falls, N. Y. Furnaces and parts thereof, muffles and parts thereof, etc. 267,943; Mar. 4; Serial No. 282,021; published Dec. 17, 1929. Class 34.

Cariola, P., & Co., doing business as The Stick-O-Bread Co., Chicago, Ill. Bakery products. 268,067; Mar. 4; Serial No. 285,012; published Dec. 17, 1929. Class 46.

Carr, F. S., Company, Boston, Mass. Artificial leather. 268,050; Mar. 4; Serial No. 290,818; published Dec. 17, 1929. Class 50.

Carter-Crume Company, Limited, The, Toronto, Ontario, Canada, and Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls and Elmira, N. Y. Counter sales slips and counter sales books. 77,184; renewed Mar. 15, 1930.

Central Fibre Co. Inc., South Gardiner, Me. Fibre flowerpots and cream bottles. 267,913; Mar. 4; Serial No. 275,479; published Dec. 17, 1929. Class 2.

Chandler, Annie, Toledo, Ohio. Paper wrappers for waste material. 267,810; Mar. 4; Serial No. 290,995; published Dec. 17, 1929. Class 2.

Chemical Foundation, Incorporated, The. (See Chemische Werke vorm. Dr. Heinrich Byk, assignor.)

Chemische Fabrik Gruenau Landshoff & Meyer Aktiengesellschaft, Grunau, Germany. Preparations for hardening cement and increasing its resistance to water and weak acids. 267,808; Mar. 4; Serial No. 286,030; published Dec. 3, 1929. Class 12.

Chemische Werke vorm. Dr. Heinrich Byk, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Diuretic preparations. 77,618; renewed Apr. 26, 1930.

Cheney Company, The, Melrose, Mass. Sheet-metal flashing. 267,951; Mar. 4; Serial No. 280,167; published Dec. 3, 1929. Class 12.

Childs, H., & Co. Inc., Pittsburgh, Pa. Shoes. 267,824; Mar. 4; Serial No. 290,303; published Dec. 10, 1929. Class 39.

Christman Sons, to Christman Piano Co., Inc., New York, N. Y., successor. Pianos of all kinds. 76,203; renewed Dec. 28, 1929.

Chromite Co. (See Blair & Mortenson.)

Chula Vista Citrus Association, Chula Vista, Calif. Fresh citrus fruits. 267,929; Mar. 4; Serial No. 269,511; published Sept. 18, 1928. Class 46.

Cincinnati Victor Company, The, Cincinnati, Ohio. Combined lamp and fan standards. 267,829; Mar. 4; Serial No. 288,220; published Dec. 17, 1929. Class 34.

Clarendon Shoe Co., Inc., Brooklyn, N. Y. Shoes, boots, slippers, and pumps. 267,818; Mar. 4; Serial No. 290,650; published Dec. 10, 1929. Class 39.

Closset & Devers, Portland, Oreg. Tea. 78,311; renewed June 7, 1930.

Coachella Valley Grapefruit Association, Thermal, Calif. Fresh grapefruit. 267,900; Mar. 4; Serial No. 277,481; published Mar. 5, 1929. Class 46.

Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Endocrine compounds, ceri-sal preparation, kava-kava, etc. 268,088; Mar. 4. Class 6.

Cole, H. C., Milling Company, Chester, Ill. Wheat and self-rising flour. 267,994; Mar. 4; Serial No. 288,638; published Dec. 17, 1929. Class 46.

Colorado Floral Company, Incorporated, The, Denver, Colo. Fresh cucumbers. 268,008; Mar. 4; Serial No. 290,744; published Dec. 17, 1929. Class 46.

Colprovia Roads, Inc., New York, N. Y. Paving aggregate coated with bitumen. 267,807; Mar. 4; Serial No. 287,910; published Dec. 3, 1929. Class 12.

Colytt Laboratories. (See Watkins, Frederick A.)

Concrete Marble Company, St. Louis, Mo. Precast concrete-marble product. 267,787; Mar. 4; Serial No. 290,652; published Dec. 3, 1929. Class 12.

Cook, M., & Co., Nashville, Tenn. Remedy for headache and indigestion. 76,469; renewed Jan. 18, 1930.

Cox Paint & Varnish Company, The, Massillon, Ohio. Paints. 268,087; Mar. 4. Class 16.

Crofoof, J. B., Company, Chicago, Ill. Staples. 267,937; Mar. 4; Serial No. 282,702; published Dec. 17, 1929. Class 13.

Crown-Columbia Pulp and Paper Co., assignor, by mesne assignments, to Crown Willamette Paper Company, San Francisco, Calif. Paper bags. 78,864–5; renewed July 19, 1930.

Crown-Columbia Pulp and Paper Co., assignor, by mesne assignments, to Crown Willamette Paper Company, San Francisco, Calif. Wrapping paper. 78,866; renewed July 19, 1930.

Crystal Products Co., Inc., New York, N. Y. Deodorant, disinfectant, insecticide, etc. 267,889; Mar. 4; Serial No. 291,207; published Dec. 10, 1929. Class 6.

Cummings, John E., Philadelphia, Pa. Tablets for medicinal purposes. 267,967; Mar. 4; Serial No. 286,871; published Dec. 10, 1929. Class 6.

Cupples Company, Manufacturers, St. Louis, Mo. Bottle caps. 267,921; Mar. 4; Serial No. 273,100; published Dec. 10, 1929. Class 50.

Curtin-Howe Corporation, New York, N. Y. Poles, railroad crossties, and lumber treated with wood preservative. 268,056; Mar. 4; Serial No. 290,209; published Dec. 17, 1929. Class 12.

Daley, John R., doing business as The Pyramid Company, Rawlins, Wyo. Mud-laden material for sealing oil and gas wells. 268,019; Mar. 4; Serial No. 290,118; published Dec. 10, 1929. Class 12.

Davy Fuel & Supply Company, Detroit, Mich. Wood lath. 267,935; Mar. 4; Serial No. 282,775; published Nov. 19, 1929. Class 12.

Dennis, Martin, Company, The, Newark, N. J. Fillers of a waxy nature. 78,694; renewed July 5, 1930.

De Paoli Company, Inc., New York, N. Y. Composition-flooring division strips. 267,806; Mar. 4; Serial No. 288,419; published Nov. 26, 1929. Class 12.

De Wald, Geo., Company, The, Fort Wayne, Ind. Certain clothing. 78,666; renewed June 28, 1930.

Di Santo, Joseph, doing business as Di Santo & Co., Duluth, Minn. Salt. 268,054; Mar. 4; Serial No. 290,555; published Dec. 3, 1929. Class 6.

Dorothy Dodd Shoe Company, Boston, Mass. Polishes and dressings. 78,871; renewed July 19, 1930.

Dover Stamping and Manufacturing Company, to Dover Stamping & Manufacturing Company, Cambridge, Mass., successor. Certain metal articles. 76,391; renewed Jan. 11, 1930.

Duffy-Mott Company. (See American Fruit Product Company, assignor.)

Du Four Company, The. (See Dunn, Katie E.)

Dunn, Katie E., doing business as The Du Four Company, Washington, D. C. Nail enamel, toilet creams, skin lotions, etc. 268,085; Mar. 4. Class 6.

Eagle Pencil Company, assignor to Eagle Pencil Company, New York, N. Y. Lead pencils. 78,317; renewed June 7, 1930.

Edelson, Joseph, doing business as J. E. Auto Supply Company, Chicago, Ill. Inner tubes. 267,862; Mar. 4; Serial No. 292,037; published Dec. 17, 1929. Class 35.

Edwards, Perc, doing business as Standard Engineering & Lubricating Co., New York, N. Y. Preparation used for the purpose of eliminating and removing rust from boilers and steam pipes. 268,045; Mar. 4; Serial No. 289,823; published Dec. 17, 1929. Class 6.

Eltingon-Schild Co. Inc., New York, N. Y. Skins, pelts, and furs. 267,899; Mar. 4; Serial No. 278,287; published Dec. 10, 1929. Class 1.

El Campo Rice Milling Company, El Campo, Tex. Developing grains, starter mash, etc. 267,853; Mar. 4; Serial No. 284,293; published Dec. 17, 1929. Class 46.

Elevator Supplies Company, Inc., Hoboken, N. J. Sign-displaying apparatus. 267,856; Mar. 4; Serial No. 286,075; published Dec. 17, 1929. Class 26.

Elias-Katz Shoe Factories, Inc., Los Angeles, Calif. Boots, shoes, and slippers. 267,803; Mar. 4; Serial No. 291,082; published Dec. 10, 1929. Class 39.

Elias-Katz Shoe Factories, Inc., Los Angeles, Calif. Shoes. 268,030; Mar. 4; Serial No. 291,443; published Dec. 17, 1929. Class 39.

Elka Noodle Corporation, Naspeth, N. Y. Egg noodles, egg barley, cut noodles, and flakes. 267,979; Mar. 4; Serial No. 287,057; published Dec. 17, 1929. Class 46.

English Textilose Manufacturing Company Limited, The, Manchester, England. Bags and sacks of cellulose fiber. 267,796; Mar. 4; Serial No. 286,044; published Dec. 17, 1929. Class 2.

Eno Rubber Corporation, Los Angeles, Calif. Rubber floor mats. 268,043; Mar. 4; Serial No. 289,881; published Nov. 19, 1929. Class 50.

Eno Rubber Corporation, Los Angeles, Calif. Rubber coin mats. 268,044; Mar. 4; Serial No. 289,880; published Nov. 19, 1929. Class 50.

Ettlinger, Louis, & Sons, New York, to Louis Ettlinger & Sons, Port Richmond, N. Y. Jewelry boxes. 76,566; renewed Feb. 1, 1930.

Falkingham, Percival E., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 267,841; Mar. 4; Serial No. 291,268; published Dec. 3, 1929. Class 6.

Farina, Johann M., Cologne-on-the-Rhine, Germany. Cologne water. 267,856; Mar. 4; Serial No. 283,788; published Dec. 10, 1929. Class 6.

Farina, Johann Maria zur Madonna. (See Marx, Louis.)

Federal Furniture Factories, Inc., New York, N. Y. Beds, dressers, wardrobes, chests, vanities, bedroom chairs, etc. 267,883; Mar. 4; Serial No. 289,458; published Dec. 17, 1929. Class 32.

Federal Rubber Company, The, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass. Tire-repair plugs. 267,969; Mar. 4; Serial No. 289,887; published Dec. 17, 1929. Class 35.

Federated Laboratories, Inc. (See Bratter, Edward M., assignor.)

Filene's, Wm., Sons Company, Boston, Mass. Cigar and cigarette holders, ash trays, pipes, etc. 267,826; Mar. 4; Serial No. 289,730; published Dec. 17, 1929. Class 8.

Filene's, Wm., Sons Company, Boston, Mass. Babies' and children's furniture, footstools, tables, magazine racks, etc. 267,866; Mar. 4; Serial No. 289,734; published Dec. 17, 1929. Class 32.

Filene's, Wm., Sons Company, Boston, Mass. Cigar cutters, table and glass knives, carving sets, etc. 267,867; Mar. 4; Serial No. 289,721; published Dec. 17, 1929. Class 23.

Filene's, Wm., Sons Company, Boston, Mass. Lorgnettes and opera glasses, compasses, etc. 267,970; Mar. 4; Serial No. 289,720; published Dec. 17, 1929. Class 26.

Filene's, Wm., Sons Company, Boston, Mass. Coat, trousers, and suit hangers, pennants, tie racks, etc. 267,968; Mar. 4; Serial No. 289,725; published Dec. 17, 1929. Class 50.

Filmagraph Corporation, South Easton, Mass. Cameras, picture projectors, parts thereof, and films. 267,880; Mar. 4; Serial No. 290,122; published Dec. 17, 1929. Class 26.

Finney, T. B., & Company, Limited, Cornbrook, Manchester, England. Bread. 267,786; Mar. 4; Serial No. 290,749; published Dec. 17, 1929. Class 46.

Firth-Sterling Steel Company, McKeesport, Pa. Tools. 267,884–5; Mar. 4; Serial Nos. 287,290–1; published Dec. 17, 1929. Class 23.

Folding Products Corporation, Chicago, Ill. Extensible curtains. 267,989; Mar. 4; Serial No. 289,673; published Nov. 19, 1929. Class 12.

Forsythe Shoe Corporation, New York, N. Y. Ladies' shoes. 267,822; Mar. 4; Serial No. 290,350; published Dec. 10, 1929. Class 39.

Foster Dack Co., Council Bluffs, Iowa, and Chicago, Ill., to Foster-Dack Company, Chicago, Ill., successor. Ointment. 78,497; renewed June 21, 1930.

Franco Corset Company, New York, N. Y. Corsets. 268,070; Mar. 4; Serial No. 288,910; published Dec. 10, 1929. Class 39.

Frankfurter Asbestwerke Aktiengesellschaft (vormals Louis Wertheim), Frankfort-on-the-Main, Germany. Certain packings. 76,485; renewed Jan. 18, 1930.

Franklin Manufacturing Co., Baltimore, Md., assignor, by mesne assignments, to J. L. Stifel & Sons, Wheeling, W. Va. Cotton cloth piece goods. 78,411; renewed June 14, 1930.

Frutsips, Incorporated, Milwaukee, Wis. Thickener for foods. 267,998; Mar. 4; Serial No. 291,916; published Dec. 17, 1929. Class 46.

Gager Lime Manufacturing Co., Sherwood and Chattanooga, Tenn. Lime. 267,789; Mar. 4; Serial No. 290,507; published Dec. 17, 1929. Class 12.

General Dyestuff Corporation, New York, N. Y. Product used for sizing artificial silk. 267,888; Mar. 4; Serial No. 291,214; published Dec. 3, 1929. Class 6.

Gibbs & Company, Chicago, Ill. Netted caps. 286,013; Mar. 4; Serial No. 289,788; published Dec. 10, 1929. Class 39.

Gifford, C. M., & Sons, San Diego, Calif. Olives. 268,001; Mar. 4; Serial No. 291,448; published Dec. 17, 1929. Class 46.

Gillies, Edwin J., & Co. of Kentucky, Louisville, Ky., and New York, N. Y., to Ouerbacker Coffee Co., Inc., Louisville, Ky., successor. Coffee. 78,413; renewed June 14, 1930.

Gilman Paper Company, New York, N. Y. Paper bags. 267,795; Mar. 4; Serial No. 286,877; published Dec. 17, 1929. Class 2.

Gilmore, Folliard F., doing business as F. F. Gilmore & Co., Boston, Mass. Diamond pointed, cutting, dressing, and turning tools. 267,877; Mar. 4; Serial No. 290,560; published Dec. 17, 1929. Class 23.

Glaser Shoe Company, San Francisco, Calif. Shoes. 267,977; Mar. 4; Serial No. 287,250; published Dec. 17, 1929. Class 39.

Glass, Bridget, Johnstown, Pa. Ointment. 268,060; Mar. 4; Serial No. 285,856; published Dec. 10, 1929. Class 6.

Glicks, Friedrich, doing business as Friedrich Glicks Spezial-Kräuter-Tee-Handlung, Berlin, Germany. Drugs. 268,047; Mar. 4; Serial No. 289,622; published Dec. 10, 1929. Class 6.

Glynn-Johnson Corporation, La Porte, Ind. Door holders. 267,931; Mar. 4; Serial No. 291,272; published Dec. 17, 1929. Class 13.

Glynn-Johnson Corporation, La Porte, Ind. Overhead door holders. 267,932; Mar. 4; Serial No. 291,271; published Dec. 17, 1929. Class 13.

Go-Far Cereal Mills, Fargo, N. Dak. Flour, cereal, corn meal, etc. 268,062; Mar. 4; Serial No. 286,676; published Dec. 17, 1929. Class 46.

Goldberg Seed & Feed Company, Fargo, N. Dak. Seeds. 267,973; Mar. 4; Serial No. 289,514; published Nov. 19, 1929. Class 1.

Golden Goose Hamburger System, Tulsa, Okla. Sandwiches, tamales, and vegetables. 267,918; Mar. 4; Serial No. 273,296; published Dec. 17, 1929. Class 46.

Golden State Macaroni Co. (See Saidlner, Harry.)

Goldstein, Julius, & Sons, Boston, Mass. Leather shoes and felt slippers. 267,978; Mar. 4; Serial No. 287,139; published Dec. 3, 1929. Class 39.

Goodness Bros. Co., Webster, Mass. Remedies. 77,869; renewed Apr. 5, 1930.

Graphite Oils Company, Limited, The, Grimsby, England. Bituminous emulsions. 267,806; Mar. 4; Serial No. 289,185; published Dec. 10, 1929. Class 12.

Grasselli Chemical Company, The, Cleveland, Ohio. Insecticidal spray products. 267,848; Mar. 4; Serial No. 284,851; published Dec. 10, 1929. Class 6.

Graves Company, The, Hammond, Ind. Sand-finish plaster. 267,790; Mar. 4; Serial No. 290,250; published Nov. 26, 1929. Class 12.

Green, A. P., Fire Brick Company, Mexico, Mo. Fire brick. 268,018; Mar. 4; Serial No. 290,125; published Dec. 10, 1929. Class 12.

Grnendler, Gustav J., Mfg. Co., Inc., St. Louis, Mo. Refrigerators and refrigerator cabinets. 268,007; Mar. 4; Serial No. 290,896; published Dec. 17, 1929. Class 31.

Guerlain Perfumery Corporation of New York, New York, N. Y. Perfume. 267,831; Mar. 4; Serial No. 291,765; published Dec. 10, 1929. Class 6.

Gunther, Joseph, doing business as J. Gunther & Sons, Kansas City, Mo. Dinner ware and tableware made entirely or partially of glass. 268,084; Mar. 4. Class 33.

Gutmann, Ferdinand, & Co., Brooklyn, N. Y. Bottle and jar caps. 267,954; Mar. 4; Serial No. 279,846; published Dec. 17, 1929. Class 50.

Haarts-Mason Rubber Manufacturing Company, Watertown, Mass. Rubberized fabrics. 268,042; Mar. 4; Serial No. 289,971; published Nov. 19, 1929. Class 50.

Haas, Baruch & Company, Los Angeles, Calif., assignor to Frank I. Towle, New York, N. Y. Table syrup. 268,076; Mar. 4; Serial No. 287,816; published Dec. 17, 1929. Class 46.

Hanover Cordage Company, Hanover, Pa. Tube rope, box twine, etc. 268,091; Mar. 4. Class 7.

Hanover Rubber Company, West Hanover, Mass. Rubber heels, soles, and half soles. 267,934; Mar. 4; Serial No. 291,193; published Dec. 10, 1929. Class 39.

Harbison, Dixon T., doing business as Petroleum Equipment Company, Fort Worth, Tex. Steel valve balls and seats. 268,098–100; Mar. 4. Class 13.

Hartford Rubber Works Company, The, Hartford, Conn., assignor to United States Rubber Company, New York, N. Y. Varnish. 77,118; renewed Mar. 8, 1930.

Hartford Rubber Works Company, The, Hartford, Conn., assignor to United States Rubber Company, New York, N. Y. Vehicle tires. 77,236; renewed Mar. 22, 1930.

Hartford Rubber Works Company, The, Hartford, Conn., assignor to United States Rubber Company, New York, N. Y. Vehicle tires. 77,355; renewed Mar. 29, 1930.

Haynes-Henson Shoe Company, Knoxville, Tenn. Leather boots and shoes and shoes manufactured from leather and fabrics. 268,029; Mar. 4; Serial No. 291,451; published Dec. 10, 1929. Class 39.

Heilig & Flores, Inc., New York, N. Y. Gloves. 267,825; Mar. 4; Serial No. 290,067; published Dec. 3, 1929. Class 39.

Heminway & Bartlett Silk Co., Watertown, Conn. Darning and mending silk and sewing silk. 267,983; Mar. 4; Serial No. 285,712; published Dec. 17, 1929. Class 43.

Henrietta Shoppe, Inc. (See Marshall Field & Company, assignor.)

Heywood Boot & Shoe Co., Worcester, Mass. Leather boots and shoes. 268,032; Mar. 4; Serial No. 291,335; published Dec. 10, 1929. Class 39.

Hoffmann-La Roche, F., & Co., Basel, Switzerland, assignor, by mesne assignment, to Hoffmann-La Roche, Inc., Nutley, N. J. Pharmaceutical preparation. 77,371; renewed Apr. 5, 1930.

Hollingshead, R. M., Co., The, Camden, N. J. Antifreeze liquid. 267,957; Mar. 4; Serial No. 288,857; published Dec. 10, 1929. Class 6.

Household Utilities Co., Chicago, Ill. Mentholated cream, hair pomade, talcum powder, etc. 267,887; Mar. 4; Serial No. 291,454; published Dec. 17, 1929. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Chemical product. 267,893; Mar. 4; Serial No. 289,585; published Dec. 10, 1929. Class 6.

Idalene Corporation, The, Toledo, Ohio. Roach powders and moth crystals. 267,896; Mar. 4; Serial No. 282,991; published Dec. 10, 1929. Class 6.

Imperial Sugar Co., Sugar Land, Tex. Cane sugar. 268,005; Mar. 4; Serial No. 291,222; published Dec. 17, 1929. Class 46.

Indiana Quartered Oak Company, Long Island City, N. Y. Lumber. 267,783; Mar. 4; Serial No. 291,274; published Dec. 17, 1929. Class 12.

Industrial Cigar Company, Pittsburgh, Pa. Stogies. 267,797; Mar. 4; Serial No. 285,778; published Dec. 17, 1929. Class 17.

International Worsted Mills, New York, N. Y., and Methuen, Mass. Worsted goods in the piece. 268,074; Mar. 4; Serial No. 288,559; published Dec. 17, 1929. Class 42.

Italian Food Products Company, Inc., Long Beach, Calif. Canned fish. 267,843; Mar. 4; Serial No. 267,968; published Dec. 17, 1929. Class 46.

J. E. Auto Supply Company. (See Edelson, Joseph.)

Janszen Company, The, Cincinnati, Ohio. Catchup, chile con carne, canned berries, etc. 267,903; Mar. 4; Serial No. 259,495; published July 3, 1928. Class 46.

Jenkins, George M., Hemingford, Nebr. Seed potatoes. 267,923; Mar. 4; Serial No. 271,969; published Dec. 3, 1929. Class 1.

Jenkins, R. C., doing business as Lake Geneva Drug Co. and Orange Cross Laboratory, Lake Geneva, Fla. Tonic and a chloroform liniment. 267,851; Mar. 4; Serial No. 284,679; published Nov. 26, 1929. Class 6.

Joe Lowe Corporation, Brooklyn, N. Y. Doughnuts, crullers, and fried cakes. 267,949; Mar. 4; Serial No. 280,333; published Dec. 17, 1929. Class 46.

Johnson, Arnie, Riceville, Iowa. Stock medicine. 268,037; Mar. 4; Serial No. 290,181; published Dec. 3, 1929. Class 6.

Johnson, Jesse H., Denver, Colo. Photographic cameras and enlarging devices. 267,939; Mar. 4; Serial No. 282,857; published Aug. 13, 1929. Class 26.

Johnson, Margaret S., Baltimore, Md. Compound for promoting the growth of the hair. 267,835; Mar. 4; Serial No. 291,564; published Dec. 3, 1929. Class 6.

Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Ladies' shoes. 268,010; Mar. 4; Serial No. 289,974; published Dec. 17, 1929. Class 39.

Jolly John's Candy Company Incorporated, New York, N. Y. Chocolate-coated candy bars. 267,920; Mar. 4; Serial No. 273,105; published Dec. 17, 1929. Class 46.

Kadota Fig Products Co., Los Angeles, Calif. Cereal breakfast food. 267,919; Mar. 4; Serial No. 273,147; published Dec. 17, 1929. Class 46.

Kalmus, Otto, assignor to The Kalmus Chemical Company, Cincinnati, Ohio. Medicinal preparation. 77,924; renewed May 17, 1930. Class 6.

Katz, Frank, Hat Co. Inc., New York, N. Y. Men's hats. 267,802; Mar. 4; Serial No. 291,165; published Dec. 10, 1929. Class 39.

Kepner, C. D., Leather Co., Boston, Mass. Shoe leather. 268,036; Mar. 4; Serial No. 290,839; published Dec. 17, 1929. Class 1.

Key Boiler Equipment Co., Inc., East St. Louis, Ill. Waterproof pipe-joint compound. 267,788; Mar. 4; Serial No. 290,516; published Dec. 17, 1929. Class 12.

Kleinert, I. B., Rubber Company, New York, N. Y. Bathing shoes. 267,930; Mar. 4; Serial No. 291,276; published Dec. 10, 1929. Class 39.
Knox Company, Kansas City, Mo. Cold tablets. 267,966; Mar. 4; Serial No. 287,876; published Dec. 17, 1929. Class 6.
Krebs, Ernst T., doing business as So-Da-Lax Company, San Francisco, Calif. Fruit salt compound. 268,062; Mar. 4. Class 6.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Washboards and clothespins. 267,792; Mar. 4; Serial No. 288,137; published Dec. 17, 1929. Class 24.
Laboratorios Manuell S. A., Mexico, Mexico. Medicinal product. 268,058; Mar. 4; Serial No. 286,642; published Dec. 3, 1929. Class 6.
La Crosse Refining Company, La Crosse, Wis. Malt syrup. 267,901; Mar. 4; Serial No. 277,300; published Dec. 17, 1929. Class 46.
La Grone, Minnie M. (See Odom, Anthony M., assignor.)
Lake Geneva Drug Co. (See Jenkins, R. C.)
Lakemill Textile Corporation, New York, N. Y. Viscose material. 267,785; Mar. 4; Serial No. 290,898; published Dec. 10, 1929. Class 1.
Lamson Company, The, Syracuse, N. Y. Apparatus for conveying and transmitting merchandise, papers, and money. 267,878–9; Mar. 4; Serial Nos. 290,184–5; published Dec. 17, 1929. Class 23.
Lanman & Kemp, assignor to Lanman & Kemp, Inc., New York, N. Y. Toilet soap. 78,852; renewed July 12, 1930.
Laws, Roland, doing business as Laws Exterminating Co., Webster Groves, Mo. Insecticide. 267,890; Mar. 4; Serial No. 291,060; published Dec. 3, 1929. Class 6.
Lee, H. D., Mercantile Company, The, Salina, Kans., to The H. D. Lee Mercantile Company, Kansas City, Mo. Coffee and canned fruits and vegetables. 78,757; renewed July 5, 1930.
Lee, H. D., Mercantile Company, The, Salina, Kans., to The H. D. Lee Mercantile Company, Kansas City, Mo. Foods. 78,808; renewed July 12, 1930.
Lévy, Maurice, New York, N. Y. Sponges. 268,034; Mar. 4; Serial No. 291,061; published Dec. 17, 1929. Class 1.
Lewis Laboratories. (See Rudolph, Louis J.)
Lidley, Will G., doing business as The Lidley Laboratories, San Francisco, Calif. Chocolate-flavored emulsion of agar-agar and mineral oil. 267,948; Mar. 4; Serial No. 280,505; published Dec. 3, 1929. Class 6.
Lillard, William W., New York, N. Y. Concrete mixtures and rods. 267,995; Mar. 4; Serial No. 286,688; published Nov. 19, 1929. Class 12.
Lorenzo Packing Company. (See Zerillo, Lorenzo.)
Lovlitone Company. (See Plater, Albert B.)
Luebert, August G., Coatesville, Pa. Capsules for treating muscular pains and aches. 267,834; Mar. 4; Serial No. 291,626; published Dec. 17, 1929. Class 6.
Lush'us Products Co., assignor to Lush'us Products Company, Chicago, Ill. Marmalades, honey, peaches, etc. 268,003; Mar. 4; Serial No. 291,282; published Dec. 17, 1929. Class 46.
MacPherson, Graham, New York, N. Y. Linen tablecloths and napkins. 268,015; Mar. 4; Serial No. 289,469; published Dec. 17, 1929. Class 42.
Manheim Manufacturing and Belting Company. (See Turner Brothers Limited, assignor.)
Manufacturers Charcoal Co., Camden, N. J., and Bradford, Pa., to Manufacturers Charcoal Company, Bradford, Pa., successor. Charcoal. 77,324; renewed Mar. 29, 1930.
Marshall Field & Company, Chicago, Ill., assignor, by mesne assignments, to Henrietta Shoppe, Inc., New York, N. Y. Hosiery. 77,254; renewed Mar. 22, 1930.
Marx, Louis, doing business as Johann Maria Farina sur Madonna, Cologne, Germany. Eau de cologne. 267,857; Mar. 4; Serial No. 283,690; published Dec. 10, 1929. Class 6.
Mason, William (Leicester) Limited, Leicester, England. Boots, shoes, slippers, etc. 267,964; Mar. 4; Serial No. 285,241; published Dec. 17, 1929. Class 39.
May Department Stores Company, The, St. Louis, Mo. Shoes. 267,945; Mar. 4; Serial No. 281,056; published Dec. 3, 1929. Class 39.
McCreery, James, & Company, New York, N. Y. Coats, suits, frocks, gloves, etc. 267,816; Mar. 4; Serial No. 290,759; published Dec. 10, 1929. Class 39.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Inhalant for relieving head colds, etc. 268,038; Mar. 4; Serial No. 290,137; published Dec. 3, 1929. Class 6.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Mouth wash. 268,053; Mar. 4; Serial No. 290,585; published Dec. 3, 1929. Class 6.
McMath, John N., doing business as Rosemary Shelton Preparations, Upper Montclair, N. J. Skin cream, face powder, toilet water, etc. 267,836; Mar. 4; Serial No. 291,462; published Dec. 17, 1929. Class 6.
Mead Pulp & Paper Company, The, Dayton, Ohio. Print papers. 76,888; renewed Feb. 22, 1930.
Merck & Co., Inc., Rahway, N. J. Purified wool fat prepared for medical and pharmaceutical use. 267,958; Mar. 4; Serial No. 288,860; published Dec. 10, 1929. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Medical preparation. 267,853; Mar. 4; Serial No. 291,711; published Dec. 10, 1929. Class 6.
Merson, Abraham, doing business as Midland Color & Chemical Co., New York, N. Y. Dry cleaner. 268,081; Mar. 4. Class 4.
Metal Stampings Corporation, Streator, Ill. Combined smoking stand and [illegible]idor. 267,882; Mar. 4; Serial No. 289,639; publish[illegible]ec. 17, 1929. Class 32.
Meyer, Emile, & Co., doing business as Haslin Mills, New York, N. Y. Cotton piece goods. 268,006; Mar. 4; Serial No. 290,187; published Nov. 5, 1929. Class 42.
Micromatic Hone Corporation, Detroit, Mich. Rotary honing and grinding tools. 267,871–2; Mar. 4; Serial Nos. 291,283–4; published Dec. 17, 1929. Class 23.
Midland Color & Chemical Co. (See Merson, Abraham.)
Monticello Drug Company, Jacksonville, Fla. Preparation to be used as a hair tonic, etc. 267,962; Mar. 4; Serial No. 288,863; published Dec. 10, 1929. Class 6.
Monticello Drug Company, Jacksonville, Fla. Preparation to be used for scalp cleaner and removing dandruff, etc. 267,975; Mar. 4; Serial No. 288,864; published Dec. 10, 1929. Class 6.
Moon, Lillian W., New London, Conn. Remedy for asthma. 78,192; renewed May 31, 1930.
Morris, E., Mfg. Co., Detroit, Mich. Razors and shears. 267,870; Mar. 4; Serial No. 291,519; published Dec. 17, 1929. Class 28.
Muralo Company, Inc., The, New Brighton, N. Y. Dry powder to be mixed with water and used for repairing damaged plastered surfaces. 267,987; Mar. 4; Serial No. 289,758; published Dec. 10, 1929. Class 12.
Murphy Products Company, Burlington, Wis. Feeds with a high mineral content for cattle, hogs, etc. 268,079; Mar. 4. Class 46.
N-I-M-C Laboratories. (See Odom, Anthony M., jr.)
Naamloose Vennootschap Biscuitfabriek de Lindeboom. (See van Doesburg, Wed. B.)
Naar, Mabel, doing business as Virginale Brassiere, New York, N. Y. Brassières. 268,027; Mar. 4; Serial No. 291,686; published Dec. 10, 1929. Class 39.
National Radiator Corporation, Johnstown, Pa. Heating radiators. 267,855; Mar. 4; Serial No. 283,887; published Dec. 17, 1929. Class 34.
National Supply Company of Delaware, The, New York, N. Y. Oil-well tools and parts thereof. 267,897; Mar. 4; Serial No. 282,873; published Dec. 17, 1929. Class 23.
Nettles, Isaac, Detroit, Mich. Pedal-propelled vehicles. 267,793; Mar. 4; Serial No. 288,030; published Dec. 17, 1929. Class 19.
Newell Mfg. Co., Inc., The, Ogdensburg, N. Y. Metal curtain rods. 267,814; Mar. 4; Serial No. 290,905; published Dec. 17, 1929. Class 13.
Newport Company, The, Carrollville, Wis., Rosin. 267,927; Mar. 4; Serial No. 270,645; published Dec. 3, 1929. Class 1.
Newport Company, The, Carrollville, Wis., Rosin. 267,928; Mar. 4; Serial No. 270,643; published Dec. 3, 1929. Class 1.
New York Belting & Packing Company, Limited, New York, N. Y., and Passaic, N. J., assignor to New York Belting and Packing Company, New York, N. Y. Hose. 76,891; renewed Feb. 22, 1930.
New York Belting and Packing Company, Limited, assignor to New York Belting and Packing Company, New York, N. Y. Belting and hose. 77,326; renewed Mar. 29, 1930.
North Bro's M'f'g Co., Philadelphia, Pa. Automatic drills, ratchet screw drivers, countersinks, etc. 267,875; Mar. 4; Serial No. 291,134; published Dec. 17, 1929. Class 23.
Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Laundry appliances. 78,344; renewed June 7, 1930.
Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Fruit-jar rubbers. 78,437; renewed June 14, 1930.
Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Seine twine. 78,540; renewed June 21, 1930.
Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Certain tools and tool handles. 78,629; renewed June 28, 1930.
Norwalk Auto Parts Company, The, Norwalk, Ohio. Apparatus for testing automobile headlights and brakes and parts thereof. 268,078; Mar. 4. Class 26.
NuGrape Company of America, Atlanta, Ga. Maltless beverages. 267,874; Mar. 4; Serial No. 291,171; published Dec. 17, 1929. Class 45.
"O. K. Fruit Exchange." (See Ontario-Cucamonga Fruit Exchange.)
Odom, Anthony M., jr., doing business as N-I-M-C Laboratories, Memphis, Tenn., assignor to Minnie M. La Grone, Blackwell, Okla. Iron mineral compound. 267,850; Mar. 4; Serial No. 284,689; published Dec. 3, 1929. Class 6.
Oneida Community Limited. (See Rogers, Wm. A., Limited, assignor.)
Ontario-Cucamonga Fruit Exchange, to Ontario-Cucamonga Fruit Exchange, doing business also as "O. K. Fruit Exchange," Upland, Calif. Citrus fruits. 77,328; renewed Mar. 29, 1930.
Optimol Laboratory. (See Richardson, Fredk.)
Orange Cross Laboratory. (See Jenkins, R. C.)
Oskamp Nolting Company, Cincinnati, Ohio. Watch movements. 78,898–9; renewed July 19, 1930.
Overbacker Coffee Co. (See Gillies, Edwin J., & Co. of Kentucky.)

P. & S. Shoe Company, New York, N. Y. Shoes. 268,077; Mar. 4; Serial No. 287,360; published Dec. 17, 1929. Class 39.
Pain-Well Remedy Company, Grafton, W. Va. Tonic, cough syrup, aspirin tablets, etc. 268,097; Mar. 4. Class 6.
Pantibo, José A., Paramus and Rochelle Park, N. J. Waterproofing compositions. 267,953; Mar. 4; Serial No. 279,953; published Nov. 26, 1929. Class 12.
Papendick Bakery Co., St. Louis, Mo. Rolls. 267,784; Mar. 4; Serial No. 291,067; published Dec. 17, 1929. Class 46.
Para Rubber Company, Newark, N. J. Shower curtains. 267,828; Mar. 4; Serial No. 288,440; published Dec. 17, 1929. Class 13.
Para Rubber Company, Newark, N. J. Drapes, draperies, table covers, etc. 267,925; Mar. 4; Serial No. 271,505; published Nov. 19, 1929. Class 50.
Para Rubber Company, Newark, N. J. Drapes, table covers, etc. 267,929; Mar. 4; Serial No. 271,504; published Dec. 10, 1929. Class 50.
Parfumerie Roger et Gallet, Société Anonyme, Paris, France. Eau de cologne, perfume extracts, etc. 267,944; Mar. 4; Serial No. 281,159; published Dec. 10, 1929. Class 6.
Park & Tilford, New York, N. Y. Certain foods. 76,794; renewed Feb. 15, 1930.
Park & Tilford, New York, N. Y. Cigars. 76,837; renewed Feb. 15, 1930.
Paulie, C. H., doing busines as C. H. Paulie Laboratories, Seymour, Wis. Medicinal preparation. 267,960; Mar. 4; Serial No. 279,106; published Nov. 19, 1929. Class 6.
Peach, Harry H., Leicester, England. Cane and wickerwork furniture. 77,482; renewed Apr. 12, 1930.
Pemberthy Injector Company, Detroit, Mich. Valves. 267,847; Mar. 4; Serial No. 284,870; published Dec. 17, 1929. Class 13.
Penn Limousine Service, Philadelphia, Pa. Automobiles and structural parts thereof. 267,794; Mar. 4; Serial No. 287,669; published Dec. 7, 1929. Class 19.
Pennsylvania-Dixie Cement Corporation, Nazareth, Pa. Portland cement. 268,017; Mar. 4; Serial No. 290,105; published Dec. 10, 1929. Class 12.
Pennsylvania-Dixie Cement Corporation, Nazareth, Pa. Portland cement. 268,020; Mar. 4; Serial No. 290,082; published Dec. 10, 1929. Class 12.
Pep Boys—Manny, Moe & Jack, The, doing business as Varsity Products Company, Philadelphia, Pa. Liquid preparation for stopping leaks in radiators. 267,968; Mar. 4; Serial No. 286,714; published Dec. 17, 1929. Class 6.
Petroleum Equipment Company. (See Harbison, Dixon T.)
Philadelphia Magnesia Company, Philadelphia, Pa. Effervescent solution of magnesia. 267,840; Mar. 4; Serial No. 291,405; published Dec. 10, 1929. Class 6.
Piedmont Fertiliser Co., Opelika, Ala. Fertilizers. 78,823; renewed July 12, 1930.
Pillsbury Flour Mills Company, Minneapolis, Minn. Pancake flour. 267,782; Mar. 4; Serial No. 291,933; published Dec. 17, 1929. Class 46.
Pittsburgh Plate Glass Company. (See Rennous Kleinle & Co., assignor.)
Plant, Thomas G., Co., assignor, by mesne assignments, to Thomas G. Plant Corporation, Boston, Mass. Polishes and dressings. 78,901; renewed July 19, 1930.
Plater, Albert B., doing business as Lovlitone Company, Grosse Pointe Park, Mich. Skin lotion and face cream. 268,049; Mar. 4; Serial No. 290,986; published Dec. 10, 1929. Class 6.
Plexo Preparations, Inc., New York, N. Y. Astringents, astringent cerates, bleach and beauty creams, etc. 267,974; Mar. 4; Serial No. 289,248; published Dec. 3, 1929. Class 6.
Plumb, Chas. L., Cranford, N. J., and Newark, N. Y., assignor, by mesne assignments, to W. P. Tanner-Gross and Company, Inc., New York, N. Y. Wheat flour. 76,531; renewed Jan. 25, 1930.
Pollak, Henry, Inc., New York, N. Y. Felt hats. 267,817; Mar. 4; Serial No. 290,663; published Dec. 3, 1929. Class 39.
Pool Sales, Company, Sherman, Tex. Work pants, work shirts, dress shirts, and hats. 267,815; Mar. 4; Serial No. 290,763; published Dec. 17, 1929. Class 39.
Powers Paper Company, Associates, Holyoke, Mass., and New York, N. Y., to Powers Paper Company, Associates, Springfield, Mass. Writing paper in boxes, papeteries, envelopes, etc. 78,902; renewed July 19, 1930.
Puritan Malt Extract Co., assignor to Puritan Malt Extract Company, Chicago, Ill. Malt extracts. 267,844; Mar. 4; Serial No. 267,387; published Dec. 17, 1929. Class 46.
Pyramid Company, The. (See Daley, John R.)
Quality Manufacturing Company, Asheville, N. C. Handkerchiefs. 268,000; Mar. 4; Serial No. 290,426; published Dec. 17, 1929. Class 42.
Querfurter Zuckerrübensamenzucht Bergmann & Co. G. m. b. H., Querfurt, Germany. Sugar-beet seeds. 268,016; Mar. 4; Serial No. 290,428; published Dec. 10, 1929. Class 1.
Rastetter, Louis, & Sons, Fort Wayne, Ind. Folding chairs. 267,955; Mar. 4; Serial No. 279,684; published Dec. 17, 1929. Class 32.
Red-D-Ply Manufacturing Company, St. Louis, Mo. Weather strips. 267,804; Mar. 4; Serial No. 289,367; published Nov. 19, 1929. Class 12.
Regalite Corporation of America, New York, N. Y. Composition of resinous matter. 268,066; Mar. 4; Serial No. 285,171; published Dec. 10. Class 1.
Reid, T. M., Teneriffe Onion Seed Company, Laredo, Tex. Onion seed. 268,063; Mar. 4; Serial No. 286,505; published Nov. 19, 1929. Class 1.
Rembrandt Lamp Corporation, Chicago, Ill. Lamp stands and bases. 267,941; Mar. 4; Serial No. 282,133; published Dec. 17, 1929. Class 32.
Rennous Kleinle & Co., Baltimore, Md., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Brushes. 77,409; renewed Apr. 5, 1930.
Revere Rubber Company, Boston, Mass., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Belting and hose and certain tires. 77,189; renewed Mar. 15, 1930.
Rice-Stix Dry Goods Co., St. Louis, Mo. Hosiery. 268,092; Mar. 4. Class 39.
Rice, Trew & Rice Co. Inc., Biglerville, Pa. Paper liners for baskets. 267,813; Mar. 4; Serial No. 290,909; published Dec. 17, 1929. Class 2.
Richards, Clarence J., Los Angeles, Calif. Roofs, roofing boards, shingles, etc. 267,858; Mar. 4; Serial No. 283,301; published Dec. 3, 1929. Class 12.
Richardson, Fredk., doing business as Optimol Laboratory, New York, N. Y. Powder for preparing hair-waving lotions. 267,839; Mar. 4; Serial No. 291,410; published Dec. 10, 1929. Class 6.
Richmond Hosiery Mills. (See Andrews, A. B., Company, assignor.)
Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga., to Richmond Hosiery Mills, Rossville, Ga. Hosiery. 78,446; renewed June 14, 1930.
Riedel, J. D., Aktiengesellschaft, Berlin, Germany, assignor, by mesne assignments, to Riedel & Co. Inc., Brooklyn, N. Y. Remedy for rheumatism and grippe. 76,952; renewed Mar. 1, 1930.
Riedel, J. D., Aktiengesellschaft, Berlin, Germany, and New York, N. Y., assignor, by mesne assignments, to Riedel & Co. Inc., Brooklyn, N. Y. Cholagogue. 78,852; renewed June 7, 1930.
Ridenour-Baker Grocery Company, Kansas City, Mo. Blended tea and roasted coffee. 77,140; renewed Mar. 15, 1930.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber. 267,791; Mar. 4; Serial No. 289,990; published Dec. 10, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber. 267,985; Mar. 4; Serial No. 289,989; published Dec. 10, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber. 267,986; Mar. 4; Serial No. 289,987; published Dec. 10, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber boards. 268,021; Mar. 4; Serial No. 289,993; published Dec. 17, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber boards. 268,022; Mar. 4; Serial No. 289,991; published Dec. 10, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber. 268,023; Mar. 4; Serial No. 289,988; published Dec. 10, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber. 268,024–5; Mar. 4; Serial Nos. 289,986–7; published Dec. 10, 1929. Class 12.
Ritter, W. M., Lumber Company, Columbus, Ohio. Lumber. 268,041; Mar. 4; Serial No. 289,994; published Dec. 10, 1929. Class 12.
Riverbank Packing Company. (See Zerillo, Lorenzo.)
Rogers Company, The, Seattle, Wash. Peanut butter. 268,000; Mar. 4; Serial No. 291,477; published Dec. 17, 1929. Class 46.
Rogers & Thompson, West New York, N. J., and New York, N. Y., to Loren O. Thompson, doing business as L. O. Thompson Co., New York, N. Y., successor. Broad silk in the piece, cotton piece goods, and silk and cotton piece goods. 76,772; renewed Feb. 15, 1930.
Rogers, Wm. A., Limited, New York, assignor to Oneida Community Limited, Oneida, N. Y. Silver-plated ware. 77,597–8; renewed Apr. 19, 1930.
Roman Stripe Mills Inc., Easton, Pa. Hosiery. 268,004; Mar. 4; Serial No. 291,239; published Dec. 17, 1929. Class 39.
Rubber and Celluloid Products Company, Newark, N. J. Toothbrushes. 268,089; Mar. 4. Class 29.
Rudolph, Louis J., doing business as Lewis Laboratories, St. Joseph, Mo. Preparation for exterminating rats. 267,887; Mar. 4; Serial No. 291,240; published Dec. 10, 1929. Class 6.
Rueping, Fred, Leather Co., Fond du Lac, Wis. Leather. 268,026; Mar. 4; Serial No. 289,368; published Nov. 19, 1929. Class 1.
Russell & Erwin Manufacturing Company, assignor to The American Hardware Corporation, New Britain, Conn. Tools and machines. 78,643; renewed June 28, 1930.
Russell & Erwin Manufacturing Company, assignor to The American Hardware Corporation, New Britain, Conn. Locks, catches, and fasteners. 78,644; renewed June 28, 1930.
Russell & Erwin Manufacturing Company, assignor to The American Hardware Corporation, New Britain, Conn. Harness hardware. 78,645; renewed June 28, 1930.
Russell's Mayonnaise Co. Inc., New York, N. Y. Salad dressings. 267,950; Mar. 4; Serial No. 289,285; published Dec. 17, 1929. Class 46.

Saldiner, Harry, doing business as Golden State Macaroni Co., Los Angeles, Calif. Alimentary pastes. 268,086; Mar. 4. Class 46.
Saw & Knife Specialty Co., Inc., The, Cleveland, Ohio. Saws of all kinds and machine knives. 267,911; Mar. 4; Serial No. 275,986; published Jan. 29, 1929. Class 28.
Sawyer Belting Company, Cleveland, Ohio, assignor to United States Rubber Company, New York, N. Y. Belting. 77,078; renewed Mar. 8, 1930.
Schering & Glatz, Inc., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J. Nuclear and nerve nutrients. 267,908; Mar. 4; Serial No. 115,489; published June 25, 1929. Class 6.
Schering-Kahlbaum A. G., Berlin, Germany. Medicine. 267,801; Mar. 4; Serial No. 290,605; published Dec. 3, 1929. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Men's felt hats. 267,933; Mar. 4; Serial No. 291,241; published Dec. 10, 1929. Class 39.
Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company.)
Shelton, Rosemary, Preparations. (See McMath, John N.)
Sherwood Brass Works, Detroit, Mich. Ball cocks. 267,812; Mar. 4; Serial No. 290,975; published Dec. 17, 1929. Class 13.
Simons, Ernest, Manufacturing Company, Port Chester, N. Y. Pajamas and pajama belts. 268,011; Mar. 4; Serial No. 289,846; published Nov. 26, 1929. Class 39.
Sinsheimer Bro. & Co., Chicago, Ill. Boots and shoes. 268,068–9; Mar. 4; Serial Nos. 289,373–4; published Dec. 3, 1929. Class 39.
Skinner Bros. Mfg. Co., Inc., St. Louis, Mo. Blower and coil-type indirect heaters. 267,823; Mar. 4; Serial No. 290,324; published Dec. 17, 1929. Class 34.
Snap-On Wrench Company, Chicago, Ill. Wrenches, wrench sets, tool handles, etc. 267,881; Mar. 4; Serial No. 290,037; published Dec. 17, 1929. Class 23.
Société des Enfants Gombault et Cie., Mogent-sur-Marne, France. Preparation for lameness and other ailments of horses, cattle, and other animals. 267,906; Mar. 4; Serial No. 217,838; published Dec. 14, 1926. Class 6.
So-Da-Lax Company. (See Krebs, Ernst T.)
Spencer Shoe Stores, Inc., Malden, Mass. Boots and shoes. 268,094; Mar. 4. Class 39.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Cartons. 267,952; Mar. 4; Serial No. 280,138; published Dec. 17, 1929. Class 2.
Standard Engineering & Lubricating Co. (See Edwards, Perc.)
Standard Oil Company of Brazil, Fairmont, W. Va. Refined oil. 267,820; Mar. 4; Serial No. 290,626; published Dec. 3, 1929. Class 15.
Standard Oil Company of New York, New York, N. Y. Refined petrolepm. 78,545; renewed June 21, 1930.
Stanley Film Advertising Company, New York, N. Y. Unitary apparatus for synchronous reproduction of light and sound effects through films and records. 267,873; Mar. 4; Serial No. 291,180; published Dec. 17, 1929. Class 26.
Stein, S., & Co., New York, N. Y. Woolen goods. 267,982; Mar. 4; Serial No. 280,138; published Dec. 17, 1929. Class 42.
Steinberg, Robert, New York, N. Y. Women's girdles. 267,842; Mar. 4; Serial No. 279,246; published Nov. 12, 1929. Class 39.
Stick-O-Bread Co., The. (See Cariola, P., & Co.)
Stifel, J. L., & Sons. (See Franklin Manufacturing Co., assignor.)
Strauss, Samuel R., doing business as "Strauss Laboratories," Huntington, N. Y. Medicinal preparations. 267,832; Mar. 4; Serial No. 291,744; published Dec. 10, 1929. Class 6.
Stringer, Alfred E., Chicago, Ill. Metal pipes and pipe fittings. 267,898; Mar. 4; Serial No. 278,496; published Dec. 17, 1929. Class 13.
Sun Dial Sanitary Sales Co., Inc., New York, N. Y. Liquid germicide, insecticide, disinfectant, etc. 267,804; Mar. 4; Serial No. 289,255; published Dec. 17, 1929. Class 6.
Switana Watch Company Ltd., Grenchen, Switzerland. Watches and parts thereof. 268,031; Mar. 4; Serial No. 291,365; published Dec. 17, 1929. Class 27.
Tacoma Grain Company, Tacoma, Wash. Wheat flour. 78,836; renewed July 12, 1930.
Tanner-Gross, W. P., and Company. (See Plumb, Chas. L., assignor.)
Templin, Otto J., doing business as The Verno Company, Milwaukee, Wis. Troche or tablet prepared especially for dyspepsia, indigestion, etc. 267,892; Mar. 4; Serial No. 290,278; published Nov. 19, 1929. Class 6.
Thayer & Chandler, Chicago, Ill. Cleansing and toilet creams, skin lotion, beauty clay, etc. 267,917; Mar. 4; Serial No. 278,332; published Dec. 3, 1929. Class 6.
Thies, Carl A., to Thies Salve Company, Charlotte, N. C., successor. Salves. 76,336; renewed Jan. 11, 1930.
Thomas Manufacturing Company, The, Springfield, Ohio. Lawn mowers. 267,845; Mar. 4; Serial No. 264,334; published Dec. 17, 1929. Class 23.
Thomas Manufacturing Company, The, Springfield, Ohio. Lawn mowers. 267,846; Mar. 4; Serial No. 264,332; published Dec. 17, 1929. Class 23.
Thompson, Loren O. (See Rogers & Thompson.)
Tobacco Export Company Inc., The, Clarksville, Tenn. Prepared leaf tobacco. 267,790–800; Mar. 4; Serial Nos. 285,234–5; published Dec. 17, 1929. Class 17.
Towle, Frank I. (See Haas, Baruch & Company, assignor.)
Traun, Dr. Heinr., & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Rubber in sheet form. 267,905; Mar. 4; Serial No. 280,060; published Nov. 19, 1929. Class 1.
Trengove, Charles T., doing business as Trengove Poultry Farm, Portland, Oreg. Liniment and antiseptic-pad combination for use on poultry. 268,052; Mar. 4; Serial No. 290,628; published Dec. 3, 1929. Class 6.
Trenton Shirt Manufacturing Company, The, Trenton, N. J. Shirts, pajamas, and night shirts. 77,586; renewed Apr. 19, 1930.
Turner Brothers Limited, Rochdale, England, assignor to Manheim Manufacturing and Belting Company, Manheim, Pa. Balata belting. 78,552; renewed June 21, 1930.
Underwood, John T., doing business as John Underwood & Co., New York, N. Y. Paper. 77,388; renewed Apr. 5, 1930.
Union Card & Paper Co., New York, N. Y. Writing and printing paper. 78,841; renewed July 12, 1930.
United Drug Company, assignor to United Drug Company, Boston, Mass. Shampoo preparations and hair tonics. 77,852; renewed May 10, 1930.
United Handle Mills, New York, N. Y. Handles for tools and implements. 78,842; renewed July 12, 1930.
United Purity Stores. (See Youngiove Grocery Company.)
United States Gypsum Company, Chicago, Ill. Plaster. 267,902; Mar. 4; Serial No. 260,702; published Dec. 10, 1929. Class 12.
United States Gypsum Company, Chicago, Ill. Concrete molded products. 267,922; Mar. 4; Serial No. 272,013; published Dec. 17, 1929. Class 12.
United States Gypsum Company, Chicago, Ill. Plaster. 267,938; Mar. 4; Serial No. 282,382; published Dec. 10, 1929. Class 12.
United States Gypsum Company, Chicago, Ill. Plastic wall coating materials, wall board, plaster board, etc. 267,991; Mar. 4; Serial No. 289,168; published Nov. 19, 1929. Class 12.
United States Plywood Co. Inc., New York, N. Y. Plywood. 268 055; Mar. 4; Serial No. 290,384; published Dec. 10, 1929. Class 12.
United States Quarry Tile Co., East Sparta, Ohio. Quarry tile. 268,035; Mar. 4; Serial No. 291,033; published Dec. 17, 1929. Class 12.
United States Rubber Company. (See Hartford Rubber Works Company, The, assignor.)
United States Rubber Company. (See Revere Rubber Company, assignor.)
United States Rubber Company. (See Sawyer Belting Company, assignor.)
United Wire and Supply Corporation, Providence, R. I. Small metal tubing for conducting fluids. 267,798; Mar. 4; Serial No. 285,539; published Dec. 17, 1929. Class 13.
Utah Rock Asphalt Corporation, The, Pueblo, Colo. Rock asphalt. 267,915; Mar. 4; Serial No. 273,990; published Nov. 19, 1929. Class 12.
Uvalde Rock Asphalt Company, San Antonio, Tex. Natural-rock-asphalt paving preparation. 268,039; Mar. 4; Serial No. 290,008; published Dec. 17, 1929. Class 12.
Valentine Laboratories, Inc. (See Walgreen Co.)
Van Doesburg, Wed. B., to Naamloose Vennootschap Biscuitfabriek de Lindeboom, Mijdrecht and Amsterdam, Netherlands, successor. Cakes and biscuits. 77,888; renewed May 10, 1930.
Van Raalte Company, New York, N. Y. Fabric gloves. 268,014; Mar. 4; Serial No. 289,698; published Dec. 3, 1929. Class 39.
Varsity Products Company. (See Pep Boys—Manny, Moe & Jack, The.)
Vermont Tea and Butter Co., Lawrence, Mass. Tea and coffee. 267,910; Mar. 4; Serial No. 276,353; published Dec. 17, 1929. Class 46.
Verno Company, The. (See Templin, Otto J.)
Vernon, Paul E., & Co., New York, N. Y. Printing and writing paper. 268,083; Mar. 4. Class 37.
Virginale Brassiere. (See Naar, Mabel.)
Vulcan Match Co., Inc., New York, N. Y. Matches. 267,996; Mar. 4; Serial No. 291,943; published Dec. 17, 1929. Class 9.
Vulcan Match Co., Inc., New York, N. Y. Matches. 267,997; Mar. 4; Serial No. 291,941; published Dec. 17, 1929. Class 9.
Vulcan Match Co., Inc., New York, N. Y. Matches. 268,002; Mar. 4; Serial No. 291,872; published Dec. 10, 1929. Class 9.
Walgreen Co., doing business as Valentine Laboratories, Inc., Chicago, Ill. Mouth-wash preparation. 268,051; Mar. 4; Serial No. 290,634; published Dec. 3, 1929. Class 6.
Wanamaker, John, New York, New York, N. Y. Shoes. 268,012; Mar. 4; Serial No. 289,809; published Dec. 17, 1929. Class 39.
Warshaw, Philip H., Inc., Brooklyn, N. Y. Hair tonic. 267,912; Mar. 4; Serial No. 275,878; published Dec. 3, 1929. Class 6.
Watkins, Frederick A., doing business as The Colytt Laboratories, Chicago, Ill. Telephone memos. 268,096; Mar. 4. Class 37.
Watkins, J. R., Company, The, Winona, Minn. Salve. 267,801; Mar. 4; Serial No. 291,254; published Dec. 3, 1929. Class 6.

Webster Grocer Company, Danville, Ill. Canned vegetables, sauerkraut, fish, and oysters. 77,592; renewed Apr. 19, 1930.
Webster Rubber Company, Sabuttus, Me. Rubber heels and soles for shoes. 268,033; Mar. 4; Serial No. 291,305; published Dec. 10, 1929. Class 39.
Weinberger Drug Stores, Inc., Cleveland, Ohio. Eczema lotions, emulsion of cod-liver oil, insecticides, etc. 267,963; Mar. 4; Serial No. 288,329; published Nov. 19, 1929. Class 6.
Weinstein, Philip, doing business as Martin Weinstein Shoe Co., Brooklyn, N. Y. Shoes. 267,811; Mar. 4; Serial No. 290,085; published Dec. 10, 1929. Class 39.
Weskittel, A., & Sons Co., Baltimore, Md. Cast-iron soil pipe and fittings. 267,810; Mar. 4; Serial No. 290,639; published Dec. 17, 1929. Class 13.
Weissbrod, Emil, & Sons, Inc., Greenfield, Mass. Wallets. 78,886; renewed June 7, 1930.
Westmoreland Grocery Company, Greensburg, Pa. Foods. 78,921; renewed July 19, 1930.
Whiffen & Sons Limited, London, England. Vegetable food substance. 267,981; Mar. 4; Serial No. 286,142; published Dec. 17, 1929. Class 46.
White, Otto, doing business as White's Shoe Shop, Spokane Wash. Shoes. 267,980; Mar. 4; Serial No. 286,143; published Dec. 3, 1929. Class 39.
White Sewing Machine Corporation, Cleveland, Ohio. Sewing machines. 267,863–4; Mar. 4; Serial Nos. 291,853–4; published Dec. 17, 1929. Class 23.
Wilbur & Williams Company, Boston, Mass. Synthetic-resin molding powder. 268,061; Mar. 4; Serial No. 285,611; published Dec. 10, 1929. Class 6.
Williams, R. C., & Co., assignor to R. C. Williams & Co., Inc., New York, N. Y. Dried and evaporated fruits. 78,849; renewed July 12, 1930.
Williams Sealing Corporation, Decatur, Ill. Bottle caps. 267,854; Mar. 4; Serial No. 284,258; published Dec. 3, 1929. Class 50.
Windram Manufacturing Co., South Boston, Mass. Piece goods. 267,914; Mar. 4; Serial No. 274,618; published Dec. 3, 1929. Class 50.
Woll, F. P., & Company, Philadelphia, Pa. Hair for stuffing mattresses, furniture, and upholstery. 267,868–9; Mar. 4; Serial Nos. 291,540–1; published Dec. 17, 1929. Class 32.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Certain musical instruments and supplies. 76,420; renewed Jan. 11, 1930.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Brass horns, violins, and mandolin tailpieces. 76,640–1; renewed Feb. 8, 1930.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Certain musical instruments and supplies. 76,642; renewed Feb. 8, 1930.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Musical instruments. 77,761; renewed May 3, 1930.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Violins and violin bows. 78,152; renewed May 31, 1930.
Youngiove Grocery Company, doing business as United Purity Stores, Tacoma, Wash. Fresh eggs. 267,940; Mar. 4; Serial No. 282,332; published Dec. 17, 1929. Class 46.
Zerillo, Lorenzo, doing business as Riverbank Packing Company, Riverbank Canning Co., and Lorenzo Packing Company, Riverbank, Calif. Canned fruits and vegetables and tomato paste. 267,904; Mar. 4; Serial No. 255 690; published Jan. 1, 1929. Class 46.
Zophar Mills, Inc., Brooklyn, N. Y. Insecticide. 267,960; Mar. 4; Serial No. 286,466; published Sept. 17, 1929. Class 6.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Alleva, Pina E. C., doing business as F. Alleva, New York, N. Y. Mozzarelle. For Cheese. 37,172; Mar. 4.
Alleva, Pina E. C., doing business as F. Alleva, New York, N. Y. Mozz-Alleva. For Cheese. 37,173; Mar. 4.
Eau Claire Book and Stationery Company. (See Hale, Earl M., assignor.)
Fraser, Mary, Candles, Inc., Los Angeles, Calif. Mary Fraser. For Candles. 37,174; Mar. 4.
Freyschlag, Catherine B., Los Gatos, Calif. Freyschlag Bros. F Finest Santa Clara Co. Juice Grapes. For Grapes. 37,175; Mar. 4.
Garden Ale Company. (See Irvin, Ward M.)
Grandone, H. G., D. C., Harrisburg, Pa. Grandone Internal Cleanser. For Tonic Laxative. 37,176; Mar. 4.
Hale, Earl M., assignor to Eau Claire Book and Stationery Company, Eau Claire, Wis. Educational Equipment School Service. For School Supplies. 37,177; Mar. 4.
Hellmann, Richard, Newburgh, N. Y. Hellmann's Salad Dressing. For Salad Dressing. 37,178; Mar. 4.
Hoague-Sprague Corporation, Lynn, Mass. Barack Shoe Co. For Boxes. 37,179; Mar. 4.
Howey-In-The-Hills Juice Company, Howey-In-The-Hills, Fla. Howey Grapefruit Juice. For Grapefruit Juice. 37,180; Mar. 4.
Hughes, L. L., Yakima, Wash. Whoopee. For Malt Syrup. 37,181; Mar. 4.
Irvin, Ward M., doing business as Garden Ale Company, Battle Creek, Mich. Garden Ale. For Nonalcoholic Cereal Maltless Beverage. 37,182; Mar. 4.
Kinsey, George V. T., New Brunswick, N. J. Cough Drop's Every Drop a Cure. For Cough Drops. 37,183; Mar. 4.
La Jacienta Cigar Co. (See Weinstein, Hyman.)
Leavitt, Louis, Brooklyn, N. Y. Alpine One Coat Enamel. For Paint. 37,184; Mar. 4.
Lewis, G. B., Company, Watertown, Wis. Eat More Honey. For Comb Honey. 37,185; Mar. 4.
Miracul Wax Co., St. Louis, Mo. Dri-Brite. For Wax. 37,186; Mar. 4.
Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Fleischmann's Phos-Fo-Lac. For Phosphate and Lactate Mixture Suitable for Use with Sodium Bicarbonate for the Same Purpose as Baking Powder. 37,187; Mar. 4.
Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Fleischmann's Yeast—Fleischmann's Service. For Yeast. 37,188; Mar. 4.
Wallpaper Association of the United States, New York, N. Y. Wall Paper Ass'n of U. S. A.—Wall Paper. For Wall Paper. 37,189; Mar. 4.
Weinstein, Hyman, doing business as La Jacienta Cigar Co., Brooklyn, N. Y. La Jacienta. For Cigars. 37,190; Mar. 4.
Wheatsworth, Inc., New York, N. Y. Wheatsworth Fruit Biscuit. For Biscuits. 37,191; Mar. 4.
Wheatsworth, Inc., New York, N. Y. Wheatsworth Animals. For Crackers. 37,192; Mar. 4.
Wheatsworth, Inc., New York, N. Y. Wheatsworth Gingerettes. For Crackers. 37,193; Mar. 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Consolidated Salt Co., Inc., Norfolk, Va. Tongue Tip Tells Strength and Flavor. For Salt. 12,403; Mar. 4.
Dodge & Olcott Company, New York, N. Y. The Integrity of the House is Reflected in the Quality of Its Products. For Essential Oils. 12,404; Mar. 4.
Kronfeldt & Karlin, Inc., New York, N. Y. Blu Boy Clothes. For Boys' Clothing. 12,405; Mar. 4.
M. J. B. Co., San Francisco, Calif. The Sign of Good Coffee Everywhere. For Coffee. 12,406; Mar. 4.
Pepsodent Co., The, Chicago, Ill. Pepsodent Removes Film. Recommended for Sensitive Teeth. For Tooth Paste. 12,407; Mar. 4.
Pepsodent Co., The, Chicago, Ill. Here They are! Amos 'N' Andy. Brought to You in Person, By Pepsodent. For Tooth Paste. 12,408; Mar. 4.
Pepsodent Co., The, Chicago, Ill. Film is Removed with Pepsodent, Recommended for Sensitive Teeth. For Tooth Paste. 12,409; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Prospector. For Malt Extract. 12,410; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. Lena's Flower Pot. For Malt Extract. 12,411; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Grindstone. For Malt Extract. 12,412; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. Fritz. For Malt Extract. 12,413; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Fisherman. For Malt Extract. 12,414; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Butler. For Malt Extract. 12,415; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Sailors. For Malt Extract. 12,416; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. Kitty. For Malt Extract. 12,417; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Letter. For Malt Extract. 12,418; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. Empress. For Malt Extract. 12,419; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. Post Office. For Malt Extract. 12,420; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. The Organ Grinder. For Malt Extract. 12,421; Mar. 4.
Premier Malt Products Co., Peoria Heights, Ill. Where Do We Go from Here. For Malt Extract. 12,422; Mar. 4.
Underwood Typewriter Company, New York, N. Y. Ellwood Ribbons and Carbon Paper. For Typewriter Machine Ribbons and Carbon Paper. 12,423; Mar. 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abseck, Louis, doing business as Louis Abseck Co., Brooklyn, N. Y. Adhesive liquid cements. 289,260; Mar. 4. Class 5.

Adams, Jean, Inc., New York, N. Y. Ladies' dresses, blouses, hats, etc. 294,045–6; Mar. 4. Class 39.

Adler, Max M., Boston, Mass. Household article for cleaning purposes. 293,864; Mar. 4. Class 4.

Adler, Morris, New York, N. Y. Preparation for the relief of epilepsy and nervousness. 292,191; Mar. 4. Class 6.

Air Travel News Corporation, Detroit, Mich. Periodical. 291,196; Mar. 4. Class 38.

Allen-Oliver Co., Los Angeles, Calif. Oil-well tools. 290,536; Mar. 4. Class 23.

Aluminum Industries, Inc., Cincinnati, Ohio. Piston pins, engine valves, oil and water pumps, etc. 286,098; Mar. 4. Class 23.

Alward-Anderson-Southard Co., Chicago, Ill. Canvas carriers for harvesting machines. 294,132; Mar. 4. Class 23.

American Encaustic Tiling Company, Ltd., New York, N. Y. Tiles. 293,460; Mar. 4. Class 12.

American Hecolite Denture Corporation, Portland, Oreg. Dental plastic materials, artificial dentures, etc. 289,954; Mar. 4. Class 44.

American Paint Journal Company, St. Louis, Mo. Periodicals. 294,836–7; Mar. 4. Class 38.

American Platinum Works, Newark, N. J. Platinum, osmium, and ruthenium metals, etc. 288,310; Mar. 4. Class 14.

Amtorg Trading Corporation, New York, N. Y. Matches. 288,173; Mar. 4. Class 9.

Anderson Box Company, Indianapolis, Ind. Brooders for chicks and the like. 292,148; Mar. 4. Class 50.

Animal Trap Company of America, Lititz, Pa. Garden tools. 291,602; Mar. 4. Class 23.

Apex Motor Fuel Company, Chicago, Ill. Motor lubricating oil. 293,653; Mar. 4. Class 15.

Arab Chemical and Engineering Corp., Gloucester City, N. J. Compounds for removing scale, rust, corrosion, and the like from boilers, etc. 294,334; Mar. 4. Class 6.

Arnold, Constable & Company, Incorporated, New York, N. Y. Hand bags. 294,559; Mar. 4. Class 3.

Art Metal Works, Inc., Newark, N. J. Smokers' pyrophoric lighters and bases therefor. 293,400; Mar. 4. Class 34.

Artloom Corporation, Artloom Rug Mills Division, Philadelphia, Pa. Seamless rugs. 295,111; Mar. 4. Class 42.

Associated Dry Goods Corporation of New York, New York, N. Y. Publications. 294,381; Mar. 4. Class 38.

Atkins, E. C., and Company, Indianapolis, Ind. Circular saws and saw sets. 293,655; Mar. 4. Class 23.

Atkins, E. C., and Company, Indianapolis, Ind. Hack-saw blades. 293,815; Mar. 4. Class 23.

Aunt Nellie's Farm Kitchen, Inc., Hartford, Wis. Canned fruits and sweet potatoes. 293,204; Mar. 4. Class 46.

Baash-Ross Tool Company, Incorporated, Los Angeles, Calif. Crown blocks for gas and oil drilling derricks. 292,782; Mar. 4. Class 23.

Baker, L. H., Evansville, Ind. Overalls and work shirts. 273,130; Mar. 4. Class 39.

Barker, Minnie, Chicago, Ill. Hair grower, pressing oil, and shampoo. 285,806; Mar. 4. Class 6.

Barnum, Kenneth R., doing business as Nightingale Laboratories, Kansas City, Mo. Cleansing cream, massage cream, face powder, etc. 283,654; Mar. 4. Class 6.

Bedford Johnson Company, Incorporated, New York, N. Y. Men's dress trousers. 289,173; Mar. 4. Class 39.

Bellmore Manufacturing Company, Gainesville, Ga. Overalls, overall union suits, work shirts, pants. 293,207; Mar. 4. Class 39.

Best & Co., Inc., New York, N. Y. Luggage. 294,953; Mar. 4. Class 3.

Bethlehem Steel Company, Bethlehem, Pa. Steel castings. 279,309; Mar. 4. Class 14.

Bloomington Milling Company. (See Zimmerman, Joseph C.)

Bohme, H. Th. A. G., Chemnitz, Germany. Chemical dye aids. 294,302–3; Mar. 4. Class 6.

Bolta Rubber Company, Lawrence, Mass. Combs. 293,656; Mar. 4. Class 40.

Bonan, Salvator, New York, N. Y. Cravats. 293,762; Mar. 4. Class 39.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Work gloves, mittens, and gauntlets. 293,173; Mar. 4. Class 39.

Bostwick Steel Lath Company, The, Niles, Ohio. Metal lath. 275,863; Mar. 4. Class 19.

Brandle & Smith Co., Philadelphia, Pa. Candles. 294,757; Mar. 4. Class 46.

Bryan, Sally, doing business as Denver Radium Service, Denver, Colo. Radium-containing ointment, solutions, and tablets. 294,055; Mar. 4. Class 6.

Buerger, Franz B., doing business as Western Dental Products Company, Los Angeles, Calif. Dental compound. 293,464; Mar. 4. Class 44.

Butcher Polish Co., The, Boston, Mass. Floor waxing and polishing hand tools. 292,575; Mar. 4. Class 23.

Butler Brothers, Chicago, Ill. Women's hosiery. 289,502; Mar. 4. Class 39.

Byrd, Charles P., Atlanta, Ga. Nonalcoholic, noncereal, maltless beverage. 272,197; Mar. 4. Class 45.

Carter, Albert H., Chicago, Ill. Horse and other animal rating tables. 284,164; Mar. 4. Class 38.

Cavanagh, John, Ltd., New York, N. Y. Headwear for men and women. 293,571; Mar. 4. Class 39.

Central Atlantic States Service Corporation, Newark, N. J. Ice, coal, and fuel wood. 293,089; Mar. 4. Class 1.

Charabot, Inc., New York, N. Y. Perfumes, aldehydes, alcohols, etc. 278,028; Mar. 4. Class 6.

Chicago Mail Order Company, Chicago, Ill. Face powder. 294,956; Mar. 4. Class 6.

Chilton Class Journal Company, Philadelphia, Pa. Publications. 295,150–1; Mar. 4. Class 38.

Clapp, Otis, & Son, Inc., Boston, Mass. Nasal inhalants. 294,820; Mar. 4. Class 6.

Colman, J. & J., Limited, London, England. Prepared condiment of spices. 288,543; Mar. 4. Class 46.

Cordova Company, The. (See Franklin, John L.)

Coty, Inc., Wilmington, Del., and New York, N. Y. Manicure preparations. 293,091; Mar. 4. Class 6.

Couch Bros. Manufacturing Co., East Point, Ga. Horse collars. 295,020–1; Mar. 4. Class 3.

Crowell Publishing Company, The, New York, N. Y. Magazine. 295,117; Mar. 4. Class 38.

Curran & Joyce Company, Incorporated, doing business as Triplepac Bottlers, Lawrence, Mass. Ginger ale and nonalcoholic, noncereal, maltless beverages. 285,339; Mar. 4. Class 45.

Daily Local News Company, West Chester, Pa. Newspaper. 294,712; Mar. 4. Class 38.

Dajan Chemical Company, Boston, Mass. Washing compounds, soaps, cleansers, etc. 278,283; Mar. 4. Class 4.

Da-Lee Cnemical Co. Inc., Baltimore, Md. Tooth paste and a liquid antiseptic. 289,341; Mar. 4. Class 6.

Dalley Weaver Company, Inc., Birmingham, Ala. Chemically-saturated pad. 288,847; Mar. 4. Class 44.

Da Rocha, Joao M., doing business as J. M. da Rocha Co., Firecracker Division, San Francisco, Calif. Firecrackers and fireworks. 294,207; Mar. 4. Class 9.

Denver Radium Service. (See Bryan, Sally.)

Dewey, Alburton A., Bristol, Conn. Neutralizing mixture and a cough and croup syrup. 281,274; Mar. 4. Class 6.

Dewey & Almy Chemical Company, North Cambridge, Mass. Outer, inner, and mid soles, heels, etc., for boots and shoes. 294,061; Mar. 4. Class 39.

Dieterich, Francis L., New York, N. Y. Packing gaskets. 289,712; Mar. 4. Class 35.

Doughnut Machine Corporation, New York, N. Y. Doughnuts. 294,495; Mar. 4. Class 46.

Dryice Corporation of America, New York, N. Y. Carbon dioxide. 294,870; Mar. 4. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Textile fabric. 293,414; Mar. 4. Class 50.

E. M. E. Corporation, doing business as Kemiko Mfg. Co., Newark, N. J. Deodorants. 294,149; Mar. 4. Class 6.

Eagle, C. K., & Co., Inc., Shamokin, Pa., and New York, N. Y. Piece goods. 293,132; Mar. 4. Class 42.

Editor & Publisher Co., The, New York, N. Y. Newspaper journals. 294,766; Mar. 4. Class 38.

Eisenhut, Harry C., Richmond Hill, N. Y. Bird food. 295,022; Mar. 4. Class 46.

Elco Distributing Company, Chicago, Ill. Nonalcoholic, noncereal, maltless carbonated beverages and syrups, etc. 294,962; Mar. 4. Class 45.

Enterprise Publishing Co., Brockton, Mass. Newspaper. 294,717; Mar. 4. Class 38.

Evansville Packing Company, Evansville, Ind. Prepared, smoked, and dried beef; prepared and smoked pork; sausage, dressed poultry, lard, butter, cheese, and eggs. 294,917; Mar. 4. Class 46.

Fairchild Aviation Corporation, New York, N. Y. Internal-combustion engines. 293,823–4; Mar. 4. Class 23.

Feeders Supply and Manufacturing Co., Kansas City, Mo. Poultry feed. 291,055; Mar. 4. Class 46.

Fehrenbach, Alfons, Union City, N. J. Soap. 288,700; Mar. 4. Class 4.

Fleischmann Company, The, Cincinnati, Ohio, and New York, N. Y., assignor to Standard Brands Incorporated, Dover, Del. Vinegar. 278,891; Mar. 4. Class 46.

Frankfort Distillery, Inc., The, Louisville, Ky. Malt whiskey. 294,579; Mar. 4. Class 49.

Franklin, John L., doing business as Cordova Company, The, Atlanta, Ga. Ginger ale. 293,965; Mar. 4. Class 45.

Fromm Brothers, Berlin, Germany. Perfumes, hygienic and cosmetic articles. 268,540; Mar. 4. Class 6.

Fulton, E. E., Co., Chicago, Ill. Adhesive cement. 294,969; Mar. 4. Class 5.

Gearench Manufacturing Company, Houston, Tex. Tongs. 294,034; Mar. 4. Class 23.

General Fruit Packing Corporation, San Francisco, Calif. Grape products. 287,814; Mar. 4. Class 45.

Gettelman, Sydney H., doing business as Market Review Publishing Company, Chicago, Ill. Periodical publication. 294,131; Mar. 4. Class 38.

Gottfried & Marshall, New York, N. Y. Eggs. 290,462; Mar. 4. Class 46.

Graphic Arts Corporation, Minneapolis, Minn. Magazines. 294,422; Mar. 4. Class 38.

Greene, June S., Cleveland, Ohio. Bath salts. 293,664; Mar. 4. Class 6.

Grocers & Producers Co., The, Cleveland, Ohio. Cornstarch, soups, macaroni, rice, etc. 286,763; Mar. 4. Class 46.

Hector, Etta, Brooklyn, N. Y. Liniment. 294,527; Mar. 4. Class 6.

Henkel Edge-Lite Corporation, Chicago, Ill. Bathroom cabinets and mirrors. 292,531; Mar. 4. Class 32.

Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Fire hose. 295,172; Mar. 4. Class 35.

Hirschman, J. C., Company, The, Indianapolis, Ind. Mattresses for beds. 262,459; Mar. 4. Class 32.

Hirschman, J. C., Company, The, Indianapolis, Ind. Mattresses for beds. 293,046; Mar. 4. Class 32.

Hodshon-Berg, Incorporated, Danbury, Conn., and New York, N. Y. Caps and hats. 293,580; Mar. 4. Class 39.

Hoefling Bros. Inc., Chico, Calif. Portable cleaning and treating machines for seed and grain. 292,608–9; Mar. 4. Class 23.

Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. 294,671; Mar. 4. Class 39.

Hollywood Dry Corporation, doing business as Purity-bonded Products, Inc., Los Angeles, Calif. Extracts, flavorings, concentrates, fruit colorings, etc. 292,876; Mar. 4. Class 45.

Hookless Fastener Company, Meadville, Pa. Hand bags, pocketbooks, money belts, etc. 294,252; Mar. 4. Class 3.

Hugo, Walter E., Hammond, Ind. Raw and popped pop corn, salted peanuts, etc. 289,460; Mar. 4. Class 46.

Humitube Mfg. Co., Peoria, Ill. Containers. 291,620; Mar. 4. Class 2.

Ideal Pharmacal Co., The. (See Levin, Benjamin.)

Ingrassia, Leon, doing business as I. Leon Company, New York, N. Y. Pads for use in permanent-hair-waving machines for pomades. 242,593; Mar. 4. Class 44.

Inland Milling Company, Des Moines, Iowa. Wheat flour. 295,224; Mar. 4. Class 46.

Isothermos Corporation of America, New York, N. Y. Lubricators and parts thereof. 291,092; Mar. 4. Class 23.

Johnson & Johnson, New Brunswick, N. J. Soap. 276,722; Mar. 4. Class 4.

Juilliard, A. D., & Co., Inc., New York, N. Y. Printed corduroys. 295,181; Mar. 4. Class 42.

Kemiko Mfg. Co. (See E. M. E. Corporation.)

Klein, L., Inc., Chicago, Ill. Shoes. 293,222; Mar. 4. Class 39.

Klein, L., Inc., Chicago, Ill. Men's suits. 293,223; Mar. 4. Class 39.

Klein, L., Inc., Chicago, Ill. Ice skates. 293,224; Mar. 4. Class 22.

Kline Brothers Co., doing business as J. G. Kline Company, New York, N. Y. Bed sheets, sheeting, etc. 294,535; Mar. 4. Class 42.

Knoppel, F. O., doing busines as Nectartone Laboratories, Chicago, Ill. Laxative medicinal tonic. 283,647; Mar. 4. Class 6.

Kny-Scheerer Corporation, New York, N. Y. Glass graduates, glass measuring cylinders, and glass pipettes. 290,260; Mar. 4. Class 26.

Koppers Coal Company, The, Pittsburgh, Pa. Coal. 285,922; Mar. 4. Class 1.

Kowalski, Kasimir, Chicago, Ill. Hair grower. 294,266; Mar. 4. Class 6.

Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Canned sugar corn, stringless beans, and pumpkin, hominy, etc. 292,810; Mar. 4. Class 46.

Kronheim Furniture Manufacturing Company, The, Cleveland, Ohio. Upholstered furniture. 235,739; Mar. 4. Class 32.

Kwong Cheung Lung & Co., San Francisco, Calif. Melon seed. 293,185; Mar. 4. Class 1.

Laboratoires G. Beytout, Societe a Responsabilite Limitee, Paris, France. Medicine. 294,478–9; Mar. 4. Class 6.

"La Compagnie des Produits Exki Limitee" ("Exki Products Company, Limited"), Montreal, Quebec, Canada. Perfumes, preparations for toilet, hygiene, and beauty. 287,067; Mar. 4. Class 6.

Lady Godiva Hats, Inc., New York, N. Y. Ladies' hats. 294,117; Mar. 4. Class 39.

La Mark, Georgia G. (See Lewis, Edna J., assignor.)

Lamicel Products Inc., New York, N. Y. Laminated yarns. 294,641; Mar. 4. Class 48.

Lawrence Portland Cement Company, Northampton, Pa. Building cement. 286,121; Mar. 4. Class 12.

Leon, I., Company. (See Ingrassia, Leon.)

Levin, Benjamin, doing business as The Ideal Pharmacal Co., St. Albans, N. Y. Sedative and expectorant. 294,118; Mar. 4. Class 6.

Lewis, Edna J., doing business as Lewis Laboratories, Hollywood, assignor to Georgia G. La Mark, Los Angeles, Calif. Preparation for the treatment of leucorrhea, etc. 294,310; Mar. 4. Class 6.

Lightfoot Schultz Company, Hoboken, N. J. Astringents, astringent cerates, bleach creams, etc. 294,811; Mar. 4. Class 6.

Lilienthal, Richard S., New York, N. Y. Cotton knit, woolen knit, rayon, glove silk, and nainsook underwear. 293,376; Mar. 4. Class 39.

Lionel Trading Co. Inc., New York, N. Y. Perfumes, toilet waters, face lotions, etc. 292,813; Mar. 4. Class 6.

Lorenz, John G., Corporation, The, Philadelphia, Pa. Roofing and siding, eaves trough, elbows, etc. 278,796; Mar. 4. Class 12.

Market Review Publishing Company. (See Gettelman, Sydney H.)

McAleer Manufacturing Company, Detroit, Mich. Polishing and cleaning compound. 290,714; Mar. 4. Class 16.

McCann, F. J., Packing Co., Inc., Salinas, Calif. Fresh vegetables. 293,189; Mar. 4. Class 46.

McKnight, Thomas E., Lindale, Tex. Fresh sweet potatoes. 200,456; Mar. 4. Class 46.

Milwaukee Lubricants Co., Milwaukee, Wis. Detergent washing powder and powdered soap. 291,682; Mar. 4. Class 4.

Milwaukee Lubricants Co., Milwaukee, Wis. Toilet soap and soap. 291,684; Mar. 4. Class 4.

Milwaukee Lubricants Co., Milwaukee, Wis. Liquid fly killer and repellant for horses and livestock. 294,552; Mar. 4. Class 6.

Montgomery Ward & Co., Incorporated, Chicago, Ill. Tennis rackets, golf clubs, footballs, etc. 289,360; Mar. 4. Class 22.

National Brokerage Company, Inc., Chicago, Ill. Medicinal whiskey. 295,079; Mar. 4. Class 49.

National Grocer Company, Detroit, Mich. Canned fruits and vegetables, canned fish, etc. 265,491; Mar. 4. Class 46.

National Lumberman Publishing Co., Inc., St. Louis, Mo. Periodical. 294,818; Mar. 4. Class 38.

National Tourist Home Guild, Auburn, N. Y. Periodical publication. 293,743; Mar. 4. Class 38.

National Weeklies, Inc., Winona, Minn. Publication. 293,439; Mar. 4. Class 38.

Nectartone Laboratories. (See Knoppel, F. O.)

Nelson, Ira I., doing business as The Stack Heater Company, Boston, Mass. Reducing and relief valves. 283,295; Mar. 4. Class 13.

Nightingale Laboratories. (See Barnum, Kenneth R.)

Ninety Six Cotton Mill, Ninety Six, S. C. Cotton piece goods. 294,170; Mar. 4. Class 42.

No Name Hat Company, The, Danbury, Conn., and New York, N. Y. Hats. 292,117; Mar. 4. Class 39.

Obex Corporation, New York, N. Y. Tablets for treating obesity. 295,130–1; Mar. 4. Class 6.

Oesterling, P. J., & Son, Inc., Butler, Pa. Egg mash, growing mash, etc. 295,132; Mar. 4. Class 46.

Owen, Robert W., doing business as Owen's Nurol Company, Oakland, Calif. Internal medicinal preparation. 284,690; Mar. 4. Class 6.

Owens-Illinois Glass Company, Toledo, Ohio. Bottles, jars, jugs, etc. 294,238; Mar. 4. Class 33.

Palestine Industrials Inc., New York, N. Y. Honey. 290,591; Mar. 4. Class 46.

Phi Kappa Sigma, Philadelphia, Pa. Periodical. 295,048; Mar. 4. Class 38.

Philadelphia Inquirer Co., The, Philadelphia, Pa. Daily newspaper. 294,739; Mar. 4. Class 38.

Pioneer Rubber Mills, San Francisco, Calif. Belting, rubber hose, and piston packing. 293,068; Mar. 4. Class 35.

Polly Shoppe, Inc., New Orleans, La. Ladies' wearing apparel. 289,249; Mar. 4. Class 39.

Portable Electric Tool Company, Fitchburg, Mass. Small portable power-driven cutting and sawing machines. 290,794; Mar. 4. Class 23.

Purity Oats Company, Keokuk, Iowa. Rolled oats or oat flakes and a breakfast food. 280,195; Mar. 4. Class 46.

Puritybonded Products, Inc. (See Hollywood Dry Corporation.)

Pyro Proof Products Company, Everett, Wash. Paints. 294,318; Mar. 4. Class 16.

Rehthaler, Louis M., Battle Creek, Mich. Canopy beds. 292,010; Mar. 4. Class 32.

Risk, Moody & Robinson, Inc., New York, N. Y. Men's underwear, knitted sweaters, and hosiery. 283,220; Mar. 4. Class 39.

Rosenau Bros., Inc., Philadelphia, Pa. Children's dresses. 287,545; Mar. 4. Class 39.

Ross, Sydney, Co., The, Newark, N. J. Talcum powder. 293,347; Mar. 4. Class 6.

Royal Manufacturing Company of Duquesne, Duquesne, Pa. Deodorants, insecticides, and disinfectants. 291,841; Mar. 4. Class 6.

Russeks Fifth Avenue Inc., New York, N. Y. Hand bags. 287,773; Mar. 4. Class 3.

Sabine Garment Company, Beaumont, Tex. Dresses. 294,182–3; Mar. 4. Class 39.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Sandos Chemical Works, Incorporated, New York, N. Y. Aniline dyes. 295,084; Mar. 4. Class 6.
Schaffer, Harry H., doing business as So-Lether Manufacturing Co., St. Paul, Minn. Liquid leather in the nature of an adhesive. 294,648; Mar. 4. Class 5.
Scher, Morris M., Baltimore, Md. Woolen suiting in piece. 292,342; Mar. 4. Class 42.
Schulze Baking Company, Kansas City, Mo., and Chicago, Ill. Bread and cake. 293,751; Mar. 4. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Shoes. 293,693; Mar. 4. Class 39.
Service Equipment Company, South Gate, Calif. Air and water vehicle service towers, tire and inflating valves. 287,891; Mar. 4. Class 13.
Shalit, Abraham, New York, N. Y. Canned fruits. 294,489; Mar. 4. Class 46.
Sheba Pistachio Corporation, Paterson, N. J. Salted pistachios. 277,641; Mar. 4. Class 46.
Simons, Robert J., Springfield, Mass. Kitchen cabinets. 295,081; Mar. 4. Class 32.
Société Anonyme M. Naef & Cie., Geneva, Switzerland. Perfumes, essential oils. 295,088; Mar. 4. Class 6.
So-Lether Manufacturing Co. (See Schaffer, Harry H.)
Southwest Dairy Products Company, Dallas, Tex. Dairy products. 286,360; Mar. 4. Class 46.
Spear, J. W., & Sons, Inc., New York, N. Y. Hand knitting devices. 293,012; Mar. 4. Class 23.
Sperry & Hutchinson Company, The, New York, N. Y. Trading stamps. 294,281; Mar. 4. Class 38.
Squibb, E. R., & Sons, New York, N. Y. Antiseptic. 295,195; Mar. 4. Class 6.
Stack Heater Company, The. (See Nelson, Ira I.)
Standard Brands Incorporated. (See Fleischmann Company, The, assignor.)
Standard Brands Incorporated, Dover, Del., and Cincinnati, Ohio. Frozen eggs. 292,467; Mar. 4. Class 46.
Stetson, John B., Company, Philadelphia, Pa. Hats. 293,387; Mar. 4. Class 39.
Steuart, Son & Company, Incorporated, Baltimore, Md. Table syrup and molasses. 293,606; Mar. 4. Class 46.
Storfer Laboratories Inc., New York, N. Y. Bath salts. 288,822; Mar. 4. Class 6.
Storms, H. M., Company, Brooklyn, N. Y. Typewriter ribbons and carbon papers. 294,279; Mar. 4. Class 11.
Strathmore Paper Company, Mittineague, Mass. Paper and mailing envelopes. 287,024; Mar. 4. Class 37.
Sullivan Machinery Company, Boston, Mass., and Chicago, Ill. Periodical publications. 294,999; Mar. 4. Class 38.
Sunnybrook Coal Co., Detroit, Mich. Bituminous coal. 291,701; Mar. 4. Class 1.
Tasco Asphalt Co., Newark, N. J. Asphaltic compounds. 293,493; Mar. 4. Class 1.
Tawlks Grate Bar Company, Everett, Wash. Grate bars. 286,520; Mar. 4. Class 34.
Thermo Service, Inc., New York, N. Y. Heating boilers. 294,601; Mar. 4. Class 34.
Tichenor, James R., doing business as J. R. Tichenor & Sons, Louisville, Ky. Mayonnaise, sandwich spread, and Thousand Island dressing. 294,863; Mar. 4. Class 46.
Timme, E. F., & Son, New York, N. Y. Pile fabrics. 294,602; Mar. 4. Class 42.
Titchener, E. H., & Company, Binghamton, N. Y. Nailing machines. 288,674; Mar. 4. Class 23.
Tootie-Campbell Dry Goods Company, St. Joseph, Mo. Cotton batting. 293,494; Mar. 4. Class 1.
Triplepac Bottlers. (See Curran & Joyce Company, Incorporated.)
Turco Products Inc., Los Angeles, Calif. Soaps and detergent cleaning compounds. 282,886; Mar. 4. Class 4.
United Christian Missionary Society, Indianapolis, Ind. Periodical. 295,009; Mar. 4. Class 38.
United Markets, Inc., Boston, Mass. Nonfattening mayonnaise. 293,990; Mar. 4. Class 46.
Universal Portland Cement Company, Chicago, Ill. Building cement. 286,346; Mar. 4. Class 12.
Universal Traffic Control Company, St. Louis, Mo. Highway and pavement markers, nonelectrical road and street signs, and nonelectrical traffic-control signals. 284,883; Mar. 4. Class 50.
Vichek Tool Company, The, Cleveland, Ohio. Screw drivers. 294,325; Mar. 4. Class 23.
Victoria Elevator Co., Minneapolis, Minn. Wheat flour. 290,769; Mar. 4. Class 46.
Viviano, Salvatore, doing business as Viviano Macaroni Manufacturing Company, Carnegie, Pa. Alimentary pastes. 283,315; Mar. 4. Class 46.
Vollrath Company, The, Sheboygan, Wis. Enameled metal ware. 283,474; Mar. 4. Class 13.
Warren-Allen Carpet Company, Boston, Mass. Sets of folding baseboard sections and cabinets therefor. 292,958; Mar. 4. Class 23.
Webster, William A., Company, The, Memphis, Tenn. Dental cream, beef, iron, and wine tonic, etc. 292,142; Mar. 4. Class 6.
Western Dental Products Company. (See Buerger, Frans B.)
Western Laboratories, Inc., Chicago, Ill. Talcum powder, cleansing cream, rouge, etc. 293,858; Mar. 4. Class 6.
Wettersol Dyestuff Corporation, New York, N. Y. Publication. 294,700; Mar. 4. Class 38.
Winthrop Chemical Company, Inc., New York, N. Y. Analgesic. 295,107; Mar. 4. Class 6.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 288,264; Mar. 4. Class 39.
Young, Robert J., Everett, Wash. Photographic prints. 276,673; Mar. 4. Class 38.
Zimmerman, Joseph C., doing business as Bloomington Milling Company, Bloomington, Ill. Prepared feed. 292,346; Mar. 4. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal. Manufacturers Charcoal Co. 77,324; renewed Mar. 29, 1930.
Coal. Blackwood Coal & Coke Company. 267,990; Mar. 4; Serial No. 289,565; published Nov. 26, 1929.
Earth, Treated diatomaceous. American Diatom Company. 268,064–5; Mar. 4; Serial Nos. 286,353–4; published Nov. 19, 1929.
Leather. Fred Rueping Leather Co. 268,026; Mar. 4; Serial No. 289,368; published Nov. 19, 1929.
Leather, Shoe. C. D. Kepner Leather Co. 268,036; Mar. 4; Serial No. 290,839; published Dec. 17, 1929.
Potatoes, Seed. G. M. Jenkins. 267,923; Mar. 4; Serial No. 271,969; published Dec. 3, 1929.
Resinous matter, Composition. Regalite Corporation of America. 268,066; Mar. 4; Serial No. 285,171; published Dec. 10, 1929.
Rosin. Newport Company. 267,927; Mar. 4; Serial No. 270,645; published Dec. 3, 1929.
Rosin. Newport Company. 267,928; Mar. 4; Serial No. 270,643; published Dec. 3, 1929.
Rubber in sheet form. Dr. Heinr. Traun & Söhne, vormals Harburger Gummi-Kamm-Compagnie. 267,905; Mar. 4; Serial No. 230,060; published Nov. 19, 1929.
Seed grains. W. P. Bell & Company. 268,040; Mar. 4; Serial No. 290,004; published Nov. 19, 1929.
Seed, Onion. T. M. Reid Teneriffe Onion Seed Company. 268,063; Mar. 4; Serial No. 286,505; published Nov. 19, 1929.
Seeds. R. B. Buchanan. 267,907; Mar. 4; Serial No. 185,281; published Dec. 10, 1929.
Seeds. Goldberg Seed & Feed Company. 267,973; Mar. 4; Serial No. 280,514; published Nov. 19, 1929.
Seeds, Sugar-beet. Querfurter Zuckerrübensamensucht Bergmann & Co. G. m. b. H. 268,016; Mar. 4; Serial No. 290,428; published Dec. 10, 1929.
Skins, pelts, and furs. Eitingon-Schild Co. Inc. 267,899; Mar. 4; Serial No. 278,287; published Dec. 10, 1929.
Sponges. M. Lévy. 268,034; Mar. 4; Serial No. 291,061; published Dec. 17, 1929.
Viscose material. Lakemill Textile Corporation. 267,785; Mar. 4; Serial No. 290,898; published Dec. 10, 1929.

CLASS 2

Bags and sacks of cellulose fiber. English Textilose Manufacturing Company Limited. 267,796; Mar. 4; Serial No. 286,044; published Dec. 17, 1929.
Bags, Paper. Crown-Columbia Pulp and Paper Co. 78,864–5; renewed July 19, 1930.
Bags, Paper. Gilman Paper Company. 267,795; Mar. 4; Serial No. 286,877; published Dec. 17, 1929.
Baskets, Paper liners for. Rice, Trew & Rice Co. Inc. 267,813; Mar. 4; Serial No. 290,909; published Dec. 17, 1929.
Boxes, Jewelry. Louis Ettlinger & Sons. 76,566; renewed Feb. 1, 1930.
Cartons. Stanco Incorporated. 267,952; Mar. 4; Serial No. 280,138; published Dec. 17, 1929.
Metal articles, Certain. Dover Stamping and Manufacturing Company. 76,391; renewed Jan. 11, 1930.
Pots and cream bottles, Fibre flower. Central Fibre Co. Inc. 267,913; Mar. 4; Serial No. 275,479; published Dec. 17, 1929.
Wrappers for waste material, Paper. A. Chandler. 267,810; Mar. 4; Serial No. 290,995; published Dec. 17, 1929.

CLASS 3

Harness hardware. Russell & Erwin Manufacturing Company. 78,645; renewed June 28, 1930.
Wallets. Emil Weisebrod & Sons, Inc. 78,366; renewed June 7, 1930.

CLASS 4

Cleaner, Dry. A. Merson. 268,081; Mar. 4.

Polishes and dressings. Dorothy Dodd Shoe Company. 78,871; renewed July 19, 1930.
Polishes and dressings. Thomas G. Plant Co. 78,001; renewed July 19, 1930.
Soap. Lanman & Kemp. 78,652; renewed July 12, 1930.

CLASS 6

Astringents, astringent cerates, bleach and beauty creams, etc. P. E. Falkingham. 267,841; Mar. 4; Serial No. 291,268; published Dec. 3, 1929.
Astringents, astringent cerates, bleach and beauty creams, etc. Plexo Preparations, Inc. 267,974; Mar. 4; Serial No. 289,248; published Dec. 3, 1929.
Capsules for treating muscular pains and aches. A. G. Luebert. 267,834; Mar. 4; Serial No. 291,626; published Dec. 17, 1929.
Chemical compositions. Air-Way Electric Appliance Corporation. 268,046; Mar. 4; Serial No. 289,812; published Dec. 17, 1929.
Chemical preparation. E. M. Bratter. 267,964; Mar. 4; Serial No. 288,517; published Dec. 17, 1929.
Chemical preparations. American Apothecaries Company. 77,600; renewed Apr. 26, 1930.
Chemical product. I. G. Farbenindustrie Aktiengesellschaft. 267,893; Mar. 4; Serial No. 289,585; published Dec. 10, 1929.
Cholagogue. J. D. Riedel Aktiengesellschaft. 78,352; renewed June 7, 1930.
Citrus oils and citric acid. California Fruit Growers Exchange. 267,936; Mar. 4; Serial No. 282,770; published Dec. 17, 1929.
Cod-liver oil. C. Boutet. 267,958; Mar. 4; Serial No. 288,843; published Dec. 17, 1929.
Cologne water. J. M. Farina. 267,856; Mar. 4; Serial No. 283,788; published Dec. 10, 1929.
Compound for promoting the growth of the hair. M. S. Johnson. 267,835; Mar. 4; Serial No. 201,564; published Dec. 3, 1929.
Compound, Fruit salt. E. T. Krebs. 268,082; Mar. 4.
Cream, face powder, toilet water, etc., Skin. J. N. McMath. 267,836; Mar. 4; Serial No. 291,462; published Dec. 17, 1929.
Cream, hair pomade, talcum powder, etc., Mentholated. Household Utilities Co. 267,837; Mar. 4; Serial No. 291,454; published Dec. 17, 1929.
Creams, skin lotion, beauty clay, etc., Cleansing and toilet. Thayer & Chandler. 267,917; Mar. 4; Serial No. 273,332; published Dec. 3, 1929.
Deodorant, disinfectant, insecticide, etc. Crystal Products Co. 267,889; Mar. 4; Serial No. 291,207; published Dec. 10, 1929.
Diuretic preparations. Chemische Werke vorm. Dr. Heinrich Byk. 77,618; renewed Apr. 26, 1930.
Drugs. F. Glücks. 268,047; Mar. 4; Serial No. 289,622; published Dec. 10, 1929.
Eau de cologne. L. Marx. 267,857; Mar. 4; Serial No. 283,690; published Dec. 10, 1929.
Eau de cologne, perfume, extracts, etc. Parfumerie Roger et Gallet, Societe Anonyme. 267,944; Mar. 4; Serial No. 281,159; published Dec. 10, 1929.
Emulsion of agar-agar and mineral oil, Chocolate-flavored. W. G. Lidley. 267,948; Mar. 4; Serial No. 280,505; published Dec. 3, 1929.
Endocrine compounds, ceri-sal preparation, kava-kava, etc. Cole Chemical Company. 268,088; Mar. 4.
Fillers of a waxy nature. Martin Dennis Company. 78,694; renewed July 5, 1930.
Germicide, insecticide, disinfectant, etc., Liquid. Sun Dial Sanitary Sales Co. 267,894; Mar. 4; Serial No. 289,255; published Dec. 17, 1929.
Hair tonic. Philip H. Warshaw, Inc. 267,912; Mar. 4; Serial No. 275,878; published Dec. 3, 1929.
Inhalant for relieving head colds, etc. McKesson & Robbins, Incorporated. 268,038; Mar. 4; Serial No. 290,137; published Dec. 3, 1929.
Insecticidal spray products. Grasselli Chemical Company. 267,848; Mar. 4; Serial No. 284,851; published Dec. 10, 1929.
Insecticide. R. Laws. 267,890; Mar. 4; Serial No. 291,060; published Dec. 3, 1929.
Insecticide. Zophar Mills, Inc. 267,960; Mar. 4; Serial No. 286,466; published Sept. 17, 1929.
Iron mineral compound. A. M. Odom, jr. 267,850; Mar. 4; Serial No. 284,689; published Dec. 3, 1929.
Liniment and antiseptic-pad combination. C. T. Trengove. 268,052; Mar. 4; Serial No. 290,628; published Dec. 3, 1929.
Liquid, Antifreeze. R. M. Hollingshead Co. 267,957; Mar. 4; Serial No. 288,857; published Dec. 10, 1929.
Lotion and face cream, Skin. A. B. Plater. 268,049; Mar. 4; Serial No. 290,986; published Dec. 10, 1929.
Lotion for the head and face. Bonheur Company. 77,974; renewed May 17, 1930.
Lotions, emulsion of cod-liver oil, insecticides, etc., Eczema. Weinberger Drug Stores, Inc. 267,963; Mar. 4; Serial No. 288,529; published Nov. 19, 1929.
Magnesia, Effervescent solution of. Philadelphia Magnesia Company. 267,840; Mar. 4; Serial No. 291,405; published Dec. 10, 1929.
Medical preparation. Wm. S. Merrell Company. 267,833; Mar. 4; Serial No. 291,711; published Dec. 10, 1929.
Medicinal preparation. Bullion and Huey. 268,059; Mar. 4; Serial No. 286,153; published Dec. 10, 1929.
Medicinal preparation. O. Kalmus. 77,924; renewed May 17, 1930.
Medicinal preparation. C. H. Paulle. 267,860; Mar. 4; Serial No. 279,106; published Nov. 19, 1929.
Medicinal preparations. S. R. Strauss. 267,832; Mar. 4; Serial No. 291,744; published Dec. 10, 1929.
Medicinal product. Laboratorios Manuell S. A. 268,058; Mar. 4; Serial No. 286,642; published Dec. 3, 1929.
Medicine. Schering-Kahlbaum A. G. 267,891; Mar. 4; Serial No. 290,605; published Dec. 3, 1929.
Medicine, Cow. Bacon Formula Company. 268,048; Mar. 4; Serial No. 291,045; published Dec. 10, 1929.
Medicine, Stock. A. Johnson. 268,087; Mar. 4; Serial No. 290,181; published Dec. 3, 1929.
Mouth wash. McKesson & Robbins, Incorporated. 268,053; Mar. 4; Serial No. 290,585; published Dec. 3, 1929.
Mouth-wash preparation. Walgreen Co. 268,051; Mar. 4; Serial No. 290,634; published Dec. 3, 1929.
Nail enamel, toilet creams, skin lotions, etc. K. E. Dunn. 268,085; Mar. 4.
Nuclear and nerve nutrients. Schering & Glatz, Inc. 267,908; Mar. 4; Serial No. 115,489; published June 25, 1929.
Ointment. Foster Dack Co. 78,497; renewed June 21, 1930.
Ointment. B. Glass. 268,060; Mar. 4; Serial No. 285,856; published Dec. 10, 1929.
Perfume. Guerlain Perfumery Corporation of New York. 267,831; Mar. 4; Serial No. 291,765; published Dec. 10, 1929.
Petroleum by-product cut to specifications. Anderson-Prichard Oil Corporation. 267,838; Mar. 4; Serial No. 291,422; published Dec. 17, 1929.
Pharmaceutical preparation. F. Hoffmann-La Roche & Co. 77,871; renewed Apr. 5, 1930.
Powder and lotions, Face. American Yvette Company. 267,947; Mar. 4; Serial No. 280,753; published Dec. 17, 1929.
Powder for preparing hair-waving lotions. F. Richardson. 267,889; Mar. 4; Serial No. 291,410; published Dec. 10, 1929.
Powders and moth crystals, Roach. Idalene Corporation. 267,898; Mar. 4; Serial No. 282,991; published Dec. 10, 1929.
Preparation for exterminating rats. L. J. Rudolph. 267,887; Mar. 4; Serial No. 291,240; published Dec. 10, 1929.
Preparation for lameness and other ailments of horses, cattle, and other animals. Société des Enfants Gombault et Cie. 267,906; Mar. 4; Serial No. 217,838; published Dec. 14, 1926.
Preparation for stopping leaks in radiators, Liquid. Pep Boys—Manny, Moe & Jack. 267,968; Mar. 4; Serial No. 286,714; published Dec. 17, 1929.
Preparation for use in the treatment of the hair and scalp. J. E. Bryant. 267,965; Mar. 4; Serial No. 288,459; published Dec. 3, 1929.
Preparation to be used as a hair tonic. Monticello Drug Company. 267,962; Mar. 4; Serial No. 288,863; published Dec. 10, 1929.
Preparation to be used for scalp cleaner and removing dandruff, etc. Monticello Drug Company. 267,975; Mar. 4; Serial No. 288,864; published Dec. 10, 1929.
Preparation used for the purpose of eliminating and removing rust from boilers and steam pipes. P. Edwards. 268,045; Mar. 4; Serial No. 289,823; published Dec. 17, 1929.
Preparations and hair tonics, Shampoo. United Drug Company. 77,852; renewed May 10, 1930.
Product used for sizing artificial silk. General Dyestuff Corporation. 267,888; Mar. 4; Serial No. 291,214; published Dec. 3, 1929.
Purified wool fat. Merck & Co. 267,956; Mar. 4; Serial No. 288,860; published Dec. 10, 1929.
Remedies. Goodness Bros. Co. 77,369; renewed Apr. 5, 1930.
Remedy for asthma. L. W. Moon. 78,192; renewed May 31, 1930.
Remedy for headache and indigestion. M. Cook & Co. 76,469; renewed Jan. 18, 1930.
Remedy for rheumatism and grippe. J. D. Riedel Aktiengesellschaft. 76,952; renewed Mar. 1, 1930.
Resin molding powder, Synthetic. Wilbur & Williams Company. 268,061; Mar. 4; Serial No. 285,611; published Dec. 10, 1929.
Rouge and lip stick. Armand Company. 268,003; Mar. 4.
Salt. J. Di Santo. 268,054; Mar. 4; Serial No. 290,555; published Dec. 3, 1929.
Salve. J. R. Watkins Company. 267,801; Mar. 4; Serial No. 291,254; published Dec. 3, 1929.
Salves. C. A. Thies. 76,886; renewed Jan. 11, 1930.
Sodium sulphide. Barium Reduction Corporation. 267,916; Mar. 4; Serial No. 273,620; published Dec. 17, 1929.
Solution for use in waving hair. Arlette, Inc. 267,946; Mar. 4; Serial No. 280,980; published Nov. 19, 1929.
Tablets, Cold. Knox Company. 267,966; Mar. 4; Serial No. 287,876; published Dec. 17, 1929.
Tablets for medicinal purposes. J. E. Cummings. 267,967; Mar. 4; Serial No. 286,871; published Dec. 10, 1929.
Tonic and chloroform liniment. R. C. Jenkins. 267,851; Mar. 4; Serial No. 284,679; published Nov. 26, 1929.
Tonic, cough syrup, aspirin tablets, etc. Pain-Well Remedy Company. 268,097; Mar. 4.

Troche or tablet prepared especially for dyspepsia, indigestion, etc. O. J. Templin. 267,892; Mar. 4; Serial No. 290,278; published Nov. 19, 1929.
Waxlike substance. P. Beiersdorf & Co. Inc. 268,057; Mar. 4; Serial No. 290,206; published Dec. 10, 1929.

CLASS 7

Rope, box twine, etc., Tube. Hanover Cordage Company. 268,091; Mar. 4.
Twine. Norvell-Shapleigh Hardware Company. 78,540; renewed June 21, 1930.

CLASS 8

Cigar and cigarette holders, ash trays, pipes, etc. Wm. Filene's Sons Company. 267,826; Mar. 4; Serial No. 289,730; published Dec. 17, 1929.

CLASS 9

Matches. Vulcan Match Co. 267,996; Mar. 4; Serial No. 291,943; published Dec. 17, 1929.
Matches. Vulcan Match Co. 267,997; Mar. 4; Serial No. 291,941; published Dec. 17, 1929.
Matches. Vulcan Match Co. 268,002; Mar. 4; Serial No. 291,372; published Dec. 10, 1929.

CLASS 10

Fertilizers. Piedmont Fertilizer Co. 78,823; renewed July 12, 1930.

CLASS 12

Asphalt paving preparation, Natural-rock-. Uvalde Rock Asphalt Company. 268,039; Mar. 4; Serial No. 290,098; published Dec. 17, 1929.
Asphalt, Rock. Utah Rock Asphalt Corporation. 267,915; Mar. 4; Serial No. 273,990; published Nov. 19, 1929.
Bituminous emulsions. Graphite Oils Company. 267,805; Mar. 4; Serial No. 289,185; published Dec. 10, 1929.
Brick, Fire. A. P. Green Fire Brick Company. 268,018; Mar. 4; Serial No. 290,125; published Dec. 10, 1929.
Cement, Portland. Pennsylvania-Dixie Cement Corporation. 268,017; Mar. 4; Serial No. 290,195; published Dec. 10, 1929.
Cement, Portland. Pennsylvania-Dixie Cement Corporation. 268,020; Mar. 4; Serial No. 290,082; published Dec. 10, 1929.
Cements and increasing its resistance to water and weak acids, Preparations for hardening. Chemische Fabrik Gruenau Landshoff & Meyer Aktiengesellschaft. 267,808; Mar. 4; Serial No. 286,030; published Dec. 3, 1929.
Composition flooring division strips. De Paoli Company. 267,806; Mar. 4; Serial No. 288,419; published Nov. 26, 1929.
Composition wax for stucco walls. California Stucco Products Company of Missouri. 267,992; Mar. 4; Serial No. 289,004; published Dec. 3, 1929.
Concrete marble product, Precast. Concrete Marble Company. 267,787; Mar. 4; Serial No. 290,652; published Dec. 3, 1929.
Concrete mixtures and rods. W. W. Lillard. 267,995; Mar. 4; Serial No. 286,688; published Nov. 19, 1929.
Concrete molded products. United States Gypsum Company. 267,922; Mar. 4; Serial No. 272,013; published Dec. 17, 1929.
Covering, Metallic wall. Blair & Mortenson. 267,895; Mar. 4; Serial No. 283,169; published Dec. 10, 1929.
Curtains, Extensible. Folding Products Corporation. 267,989; Mar. 4; Serial No. 289,673; published Nov. 19, 1929.
Lath, Wood. Davy Fuel & Supply Company. 267,935; Mar. 4; Serial No. 282,775; published Nov. 19, 1929.
Lime. Gager Lime Manufacturing Co. 267,789; Mar. 4; Serial No. 290,507; published Dec. 17, 1929.
Lumber. Indiana Quartered Oak Company. 267,783; Mar. 4; Serial No. 291,274; published Dec. 17, 1929.
Lumber. W. M. Ritter Lumber Company. 267,791; Mar. 4; Serial No. 289,990; published Dec. 10, 1929.
Lumber. W. M. Ritter Lumber Company. 267,985; Mar. 4; Serial No. 289,989; published Dec. 10, 1929.
Lumber. W. M. Ritter Lumber Company. 267,986; Mar. 4; Serial No. 289,987; published Dec. 10, 1929.
Lumber. W. M. Ritter Lumber Company. 268,023; Mar. 4; Serial No. 289,988; published Dec. 10, 1929.
Lumber. W. M. Ritter Lumber Company. 268,024–5; Mar. 4; Serial Nos. 289,986–7; published Dec. 10, 1929.
Lumber. W. M. Ritter Lumber Company. 268,041; Mar. 4; Serial No. 289,994; published Dec. 10, 1929.
Lumber boards. W. M. Ritter Lumber Company. 268,021; Mar. 4; Serial No. 289,993; published Dec. 17, 1929.
Lumber boards. W. M. Ritter Lumber Company. 268,022; Mar. 4; Serial No. 289,991; published Dec. 10, 1929.
Metallic wall covering. Blair & Mortenson. 267,859; Mar. 4; Serial No. 283,170; published Dec. 10, 1929.
Mud-laden material for sealing oil and gas wells. J. R. Daley. 268,019; Mar. 4; Serial No. 290,118; published Dec. 10, 1929.
Paving aggregate coated with bitumen. Colprovia Roads, Inc. 267,807; Mar. 4; Serial No. 287,910; published Dec. 3, 1929.
Pipe-joint compound, Waterproof. Key Boiler Equipment Co. 267,788; Mar. 4; Serial No. 290,516; published Dec. 17, 1929.
Plaster. United States Gypsum Company. 267,902; Mar. 4; Serial No. 260,702; published Dec. 10, 1929.
Plaster. United States Gypsum Company. 267,938; Mar. 4; Serial No. 282,382; published Dec. 10, 1929.
Plaster, Sand-finish. Graves Company. 267,790; Mar. 4; Serial No. 290,250; published Nov. 26, 1929.
Plastic wall coating materials, wall board, plaster board, etc. United States Gypsum Company. 267,991; Mar. 4; Serial No. 289,168; published Nov. 19, 1929.
Plywood. United States Plywood Co. Inc. 268,055; Mar. 4; Serial No. 290,384; published Dec. 10, 1929.
Poles, railroad cross-ties, and lumber treated with wood preservative. Curtin-Howe Corporation. 268,056; Mar. 4; Serial No. 290,209; published Dec. 17, 1929.
Powder to be mixed with water and used for repairing damaged plastered surfaces, Dry. Muralo Company. 267,987; Mar. 4; Serial No. 283,758; published Dec. 10, 1929.
Road-patching materials. Amiesite Asphalt Company of America. 267,924; Mar. 4; Serial No. 271,843; published Dec. 17, 1929.
Roofs, roofing boards, shingles, etc. C. J. Richards. 267,858; Mar. 4; Serial No. 283,501; published Dec. 3, 1929.
Sash, metal jambs, transoms, etc., Metal store-front. Brasco Manufacturing Company. 267,809; Mar. 4; Serial No. 285,705; published Nov. 19, 1929.
Sheet-metal flashing. Cheney Company. 267,951; Mar. 4; Serial No. 280,167; published Dec. 3, 1929.
Tile, Quarry. United States Quarry Tile Co. 268,035; Mar. 4; Serial No. 291,033; published Dec. 17, 1929.
Waterproofing compositions. J. A. Patiño. 267,953; Mar. 4; Serial No. 279,953; published Nov. 26, 1929.
Weather strips. Red-D-Ply Manufacturing Company. 267,804; Mar. 4; Serial No. 289,367; published Nov. 19, 1929.

CLASS 13

Cocks, Ball. Sherwood Brass Works. 267,812; Mar. 4; Serial No. 290,975; published Dec. 17, 1929.
Curtains, Shower. Para Rubber Company. 267,828; Mar. 4; Serial No. 288,449; published Dec. 17, 1929.
Holders, Door. Glynn-Johnson Corporation. 267,931; Mar. 4; Serial No. 291,272; published Dec. 17, 1929.
Holders, Overhead door. Glynn-Johnson Corporation. 267,932; Mar. 4; Serial No. 291,271; published Dec. 17, 1929.
Pipe and fittings, Cast-iron soil. A. Weiskittel & Sons Co. 267,819; Mar. 4; Serial No. 290,639; published Dec. 17, 1929.
Pipes and pipe fittings, Metal. A. E. Stringer. 267,898; Mar. 4; Serial No. 278,496; published Dec. 17, 1929.
Rods, Metal curtain. Newell Mfg. Co. 267,814; Mar. 4; Serial No. 290,905; published Dec. 17, 1929.
Screening, Metal. Audubon Wire Cloth Company. 267,830; Mar. 4; Serial No. 288,214; published Dec. 17, 1929.
Staples. J. B. Crofoot Company. 267,937; Mar. 4; Serial No. 282,702; published Dec. 17, 1929.
Steel valve balls and seats. D. T. Harbison. 268,098–100; Mar. 4.
Tubing for conducting fluids, Small metal. United Wire and Supply Corporation. 267,798; Mar. 4; Serial No. 285,539; published Dec. 17, 1929.
Valves. Penberthy Injector Company. 267,847; Mar. 4; Serial No. 284,870; published Dec. 17, 1929.

CLASS 14

Castings and forgings, Metal. Edgar Allen & Co. Limited. 78,670; renewed July 5, 1930.

CLASS 15

Oil, Refined. Standard Oil Company of Brazil. 267,820; Mar. 4; Serial No. 290,626; published Dec. 3, 1929.
Petroleum, Refined. Standard Oil Company of New York. 78,545; renewed June 21, 1930.

CLASS 16

Paints. Cox Paint & Varnish Company. 268,087; Mar. 4.
Varnish. Hartford Rubber Works Company. 77,118; renewed Mar. 8, 1930.

CLASS 17

Cigars. Park & Tilford. 76,837; renewed Feb. 15, 1930.
Stogies. Industrial Cigar Company. 267,797; Mar. 4; Serial No. 285,778; published Dec. 17, 1929.
Tobacco, Prepared leaf. Tobacco Export Company Inc. 267,799–800; Mar. 4; Serial Nos. 285,234–5; published Dec. 17, 1929.

CLASS 19

Automobile parts. Borst Engineering Corporation. 267,821; Mar. 4; Serial No. 290,541; published Dec. 17, 1929.
Automobile wheels for pneumatic tires. Bergische Stahl-Industrie. 267,827; Mar. 4; Serial No. 289,707; published Dec. 17, 1929.
Automobiles and structural parts thereof. Penn Limousine Service. 267,794; Mar. 4; Serial No. 287,686; published Dec. 17, 1929.
Vehicles, Pedal-propelled. I. Nettles. 267,793; Mar. 4; Serial No. 288,030; published Dec. 17, 1929.

CLASS 23

Cigar cutters, table and glass knives, carving sets, etc. Wm. Filene's Sons Company. 267,867; Mar. 4; Serial No. 289,721; published Dec. 17, 1929.

Conveying and transmitting, Apparatus for. Lamson Company. 267,878–9; Mar. 4; Serial Nos. 290,184–5; published Dec. 17, 1929.
Drills, ratchet screw drivers, countersinks, etc. Automatic. North Bro's. M'f'g Co. 267,875; Mar. 4; Serial No. 291,184; published Dec. 17, 1929.
Honing and grinding tools. Micromatic Hone Corporation. 267,871–2; Mar. 4; Serial Nos. 291,283–4; published Dec. 17, 1929.
Machines and machine attachments. Carborundum Company. 267,942; Mar. 4; Serial No. 282,022; published Dec. 17, 1929.
Mowers, Lawn. Thomas Manufacturing Company. 267,845; Mar. 4; Serial No. 264,334; published Dec. 17, 1929.
Mowers, Lawn. Thomas Manufacturing Company. 267,846; Mar. 4; Serial No. 264,332; published Dec. 17, 1929.
Pump units and pumping machinery and parts thereof. American Steam Pump Company. 267,876; Mar. 4; Serial No. 291,109; published Dec. 17, 1929.
Razor blades, Safety-. Boye Needle Co. 267,971; Mar. 4; Serial No. 289,709; published Dec. 17, 1929.
Rasors and shears. E. Morris Mfg. Co. 267,870; Mar. 4; Serial No. 291,519; published Dec. 17, 1929.
Saws of all kinds and machine knives. Saw & Knife Specialty Co. 267,911; Mar. 4; Serial No. 275,986; published Jan. 29, 1929.
Sewing machines. White Sewing Machine Corporation. 267,863–4; Mar. 4; Serial Nos. 291,853–4; published Dec. 17, 1929.
Slicing machinery. American Slicing Machine Company. 267,972; Mar. 4; Serial No. 289,660; published Dec. 17, 1929.
Tools. Firth-Sterling Steel Company. 267,884–5; Mar. 4; Serial Nos. 287,290–1; published Dec. 17, 1929.
Tools. F. F. Gilmore. 267,877; Mar. 4; Serial No. 290,569; published Dec. 17, 1929.
Tools and implements, Handles for. United Handle Mills. 78,842; renewed July 12, 1930.
Tools and machines. Russell & Erwin Manufacturing Company. 78,643; renewed June 28, 1930.
Tools and parts thereof, Oil-well. National Supply Company of Delaware. 267,897; Mar. 4; Serial No. 282,873; published Dec. 17, 1929.
Tools and tool handles, Certain. Norvell-Shapleigh Hardware Company. 78,629; renewed June 28, 1930.
Wrenches, wrench sets, tool handles, etc. Snap-On Wrench Company. 267,881; Mar. 4; Serial No. 290,037; published Dec. 17, 1929.

CLASS 24

Laundry appliances. Norvell-Shapleigh Hardware Company. 78,344; renewed June 7, 1930.
Washboards and clothespins. Kroger Grocery & Baking Co. 267,792; Mar. 4; Serial No. 288,137; published Dec. 17, 1929.

CLASS 25

Locks, catches, and fasteners. Russell & Erwin Manufacturing Company. 78,644; renewed June 28, 1930.

CLASS 26

Apparatus for testing automobile headlights and brakes and parts thereof. Norwalk Auto Parts Company. 268,078; Mar. 4.
Cameras and photographic enlarging devices, Photographic. J. H. Johnson. 267,939; Mar. 4; Serial No. 282,357; published Aug. 13, 1929.
Cameras, picture projectors, parts thereof, and films. Filmograph Corporation. 267,880; Mar. 4; Serial No. 290,122; published Dec. 17, 1929.
Lorgnettes, opera glasses, compasses, etc. Wm. Filene's Sons Company. 267,970; Mar. 4; Serial No. 289,720; published Dec. 17, 1929.
Numbering machines. Bates Manufacturing Company. 267,861; Mar. 4; Serial No. 292,092; published Dec. 17, 1929.
Picture screens, Moving-. American Cine Screen Co. 267,909; Mar. 4; Serial No. 276,828; published Feb. 20, 1929.
Sign-displaying apparatus. Elevator Supplies Company. 267,886; Mar. 4; Serial No. 286,675; published Dec. 17, 1929.
Synchronous reproduction of light and sound effects through films and records, Unitary apparatus for. Stanley Film Advertising Company. 267,873; Mar. 4; Serial No. 291,180; published Dec. 17, 1929.

CLASS 27

Watch movements. Oskamp Nolting Company. 78,898–9; renewed July 19, 1930.
Watches and parts thereof. Switana Watch Company Ltd. 268,081; Mar. 4; Serial No. 291,365; published Dec. 17, 1929.

CLASS 28

Silver-plated ware. Wm. A. Rogers, Limited. 77,597–8; renewed Apr. 19, 1930.

CLASS 29

Brushes. Rennous Kleinle & Co. 77,409; renewed Apr. 5, 1930.
Toothbrushes. Rubber and Celluloid Products Company. 268,089; Mar. 4.

CLASS 31

Refrigerators and refrigerator cabinets. Gustav J. Gruendler Mfg. Co. 268,007; Mar. 4; Serial No. 290,896; published Dec. 17, 1929.

CLASS 32

Beds, dressers, wardrobes, chests, vanities, bedroom chairs, etc. Federal Furniture Factories, Inc. 267,883; Mar. 4; Serial No. 289,458; published Dec. 17, 1929.
Chairs, Folding. Louis Rastetter & Sons. 267,955; Mar. 4; Serial No. 279,684; published Dec. 17, 1929.
Furniture, Cane and wickerwork. H. H. Peach. 77,482; renewed Apr. 12, 1930.
Furniture, footstools, tables, magazine racks, etc., Babies' and children's. Wm. Filene's Sons Company. 267,866; Mar. 4; Serial No. 289,734; published Dec. 17, 1929.
Hair for stuffing mattresses, furniture, and upholstery. F. P. Woll & Company. 267,868–9; Mar. 4; Serial No. 291,540–1; published Dec. 17, 1929.
Stand and humidor, Combined smoking. Metal Stampings Corporation. 267,882; Mar. 4; Serial No. 289,639; published Dec. 17, 1929.
Stands and bases, Lamp. Rembrandt Lamp Corporation. 267,941; Mar. 4; Serial No. 282,133; published Dec. 17, 1929.

CLASS 33

Dinnerware and tableware made entirely or partially of glass. J. Gunther. 268,084; Mar. 4.

CLASS 34

Furnaces and parts thereof, muffles and parts thereof, etc. Carborundum Company. 267,943; Mar. 4; Serial No. 282,021; published Dec. 17, 1929.
Heaters, Blower and coil-type indirect. Skinner Bros. Mfg. Co. 267,823; Mar. 4; Serial No. 290,324; published Dec. 17, 1929.
Lamp and fan standards, Combined. Cincinnati Victor Company. 267,829; Mar. 4; Serial No. 288,220; published Dec. 17, 1929.
Radiators, Heating. National Radiator Corporation. 267,855; Mar. 4; Serial No. 283,887; published Dec. 17, 1929.

CLASS 35

Belting. Sawyer Belting Company. 77,078; renewed Mar. 8, 1930.
Belting. Turner Brothers Limited. 78,532; renewed June 21, 1930.
Belting and hose. New York Belting and Packing Company. 77,326; renewed Mar. 29, 1930.
Belting and hose and certain tires. Revere Rubber Company. 77,189; renewed Mar. 15, 1930.
Hose. New York Belting & Packing Company. 76,891; renewed Feb. 22, 1930.
Inner tubes. J. Edelson. 267,862; Mar. 4; Serial No. 292,007; published Dec. 17, 1929.
Packings, Certain. Frankfurter Asbestwerke Aktiengesellschaft (vormals Louis Wertheim). 76,485; renewed Jan. 18, 1930.
Rubbers, Fruit-jar. Norvell-Shapleigh Hardware Company. 78,437; renewed June 14, 1930.
Tire-repair plugs. Federal Rubber Company. 267,969; Mar. 4; Serial No. 289,887; published Dec. 17, 1929.
Tires, Vehicle. Hartford Rubber Works Company. 77,236; renewed Mar. 22, 1930.
Tires, Vehicle. Hartford Rubber Works Company. 77,855; renewed Mar. 29, 1930.

CLASS 36

Horns, violins, and mandolin tailpieces, Brass. Rudolph Wurlitzer Company. 76,640–1; renewed Feb. 8, 1930.
Musical instruments. Rudolph Wurlitzer Company. 77,761; renewed May 3, 1930.
Musical instruments and supplies, Certain. Rudolph Wurlitzer Company. 76,420; renewed Jan. 11, 1930.
Musical instruments and supplies, Certain. Rudolph Wurlitzer Company. 76,642; renewed Feb. 8, 1930.
Pianos and player pianos. Behning Piano Company. 78,484; renewed June 21, 1930.
Pianos of all kinds. Christman Sons. 76,203; renewed Dec. 28, 1929.
Violins and violin bows. Rudolph Wurlitzer Company. 78,152; renewed May 31, 1930.

CLASS 37

Memos, Telephone. F. A. Watkins. 268,096; Mar. 4.
Paper. J. T. Underwood. 77,383; renewed Apr. 5, 1930.
Paper in boxes, papeteries, envelops, etc., Writing. Powers Paper Company, Associates. 78,902; renewed July 19, 1930.
Paper, Printing and writing. Paul E. Vernon & Co. 268,083; Mar. 4.
Paper, Toilet. Albany Perforated Wrapping Paper Company. 78,760; renewed July 12, 1930.
Paper, Wrapping. Crown-Columbia Pulp and Paper Co. 78,866; renewed July 19, 1930.
Paper, Writing and printing. Union Card & Paper Co. 78,841; renewed July 12, 1930.
Papers, Print. Mead Pulp & Paper Company. 76,888; renewed Feb. 22, 1930.

Pencils, Lead. Eagle Pencil Company. 78,317; renewed June 7, 1930.
Sales slips and sales books, Counter. Carter-Crume Company. 77,184; renewed Mar. 15, 1930.

CLASS 39

Boots and shoes. J. N. Adam & Co. 267,976; Mar. 4; Serial No. 287,322; published Dec. 3, 1929.
Boots and shoes. Sinsheimer Bro. & Co. 268,068–9; Mar. 4; Serial Nos. 289,373–4; published Dec. 3, 1929.
Boots and shoes. Spencer Shoe Stores, Inc. 268,094; Mar. 4.
Boots and shoes and shoes manufactured from leather and fabrics, Leather. Haynes-Henson Shoe Company. 268,029; Mar. 4; Serial No. 291,451; published Dec. 10, 1929.
Boots and shoes, Leather. Heywood Boot & Shoe Co. 268,032; Mar. 4; Serial No. 291,335; published Dec. 10, 1929.
Boots, shoes, and slippers. J. R. Burns. 268,071; Mar. 4; Serial No. 288,740; published Dec. 17, 1929.
Boots, shoes, and slippers. Elias-Katz Shoe Factories, Inc. 267,803; Mar. 4; Serial No. 291,032; published Dec. 10, 1929.
Boots, shoes, slippers, etc. William Mason (Leicester) Limited. 267,984; Mar. 4; Serial No. 285,241; published Dec. 17, 1929.
Brassières. M. Naar. 268,027; Mar. 4; Serial No. 291,686; published Dec. 10, 1929.
Caps, Netted. Gibbs & Company. 268,013; Mar. 4; Serial No. 289,788; published Dec. 10, 1929.
Clothing. Geo. De Wald Company. 78,666; renewed June 28, 1930.
Clothing, Waterproof. Alligator Company. 268,072; Mar. 4; Serial No. 288,684; published Dec. 17, 1929.
Coats, suits, frocks, etc. James McCreery & Company. 267,816; Mar. 4; Serial No. 290,759; published Dec. 10, 1929.
Corsets. Franco Corset Company. 268,070; Mar. 4; Serial No. 288,910; published Dec. 10, 1929.
Girdles, Women's. R. Steinberg. 267,842; Mar. 4; Serial No. 279,246; published Nov. 12, 1929.
Gloves. Heilig & Florea, Inc. 267,825; Mar. 4; Serial No. 290,067; published Dec. 3, 1929.
Gloves. Van Raalte Company. 268,014; Mar. 4; Serial No. 289,698; published Dec. 3, 1929.
Hats. Frank Katz Hat Co. Inc. 267,802; Mar. 4; Serial No. 291,165; published Dec. 10, 1929.
Hats. Henry Pollak, Inc. 267,817; Mar. 4; Serial No. 290,663; published Dec. 3, 1929.
Hats, Children's and misses'. Jacob Auslander & Son, Inc. 268,095; Mar. 4.
Hats, Fur-felt. G. W. Alexander & Co. 268,028; Mar. 4; Serial No. 291,543; published Dec. 10, 1929.
Hats, Men's felt. Sears, Roebuck and Co. 267,933; Mar. 4; Serial No. 291,241; published Dec. 10, 1929.
Hats, shoes, slippers, etc. L. Bamberger & Co. 268,073; Mar. 4; Serial No. 288,633; published Dec. 3, 1929.
Heels and soles for shoes, Rubber. Webster Rubber Company. 268,033; Mar. 4; Serial No. 291,305; published Dec. 10, 1929.
Heels, soles, and half soles, Rubber. Hanover Rubber Company. 267,934; Mar. 4; Serial No. 291,193; published Dec. 10, 1929.
Hosiery. Marshall Field & Company. 77,254; renewed Mar. 22, 1930.
Hosiery. Rice-Stix Dry Goods Co. 268,092; Mar. 4.
Hosiery. Richmond Hosiery Mills. 78,057; renewed May 31, 1930.
Hosiery. Richmond Hosiery Mills. 78,446; renewed June 14, 1930.
Hosiery. Roman Stripe Mills Inc. 268,004; Mar. 4; Serial No. 291,239; published Dec. 17, 1929.
Pajamas and pajama belts. Ernest Simons Manufacturing Company. 268,011; Mar. 4; Serial No. 289,846; published Nov. 26, 1929.
Pants, work shirts, dress shirts and hats, Work. Pool Sales Company. 267,815; Mar. 4; Serial No. 290,763; published Dec. 17, 1929.
Shirts, pajamas, and nightshirts. Trenton Shirt Manufacturing Company. 77,586; renewed Apr. 19, 1930.
Shoes. H. Childs & Co. Inc. 267,824; Mar. 4; Serial No. 290,303; published Dec. 10, 1929.
Shoes. Elias-Katz Shoe Factories, Inc. 268,030; Mar. 4; Serial No. 291,443; published Dec. 17, 1929.
Shoes. Glaser Shoe Company. 267,977; Mar. 4; Serial No. 287,250; published Dec. 17, 1929.
Shoes. May Department Stores Company. 267,945; Mar. 4; Serial No. 281,056; published Dec. 3, 1929.
Shoes. P. & S. Shoe Company. 268,077; Mar. 4; Serial No. 287,360; published Dec. 17, 1929.
Shoes. John Wanamaker New York. 268,012; Mar. 4; Serial No. 289,809; published Dec. 17, 1929.
Shoes. P. Weinstein. 267,811; Mar. 4; Serial No. 290,985; published Dec. 10, 1929.
Shoes. O. White. 267,980; Mar. 4; Serial No. 286,148; published Dec. 3, 1929.
Shoes and felt slippers, Leather. Julius Goldstein & Sons. 267,978; Mar. 4; Serial No. 287,139; published Dec. 3, 1929.
Shoes, Bathing. I. B. Kleinert Rubber Company. 267,930; Mar. 4; Serial No. 291,276; published Dec. 10, 1929.
Shoes, boots, slippers, and pumps. Clarendon Shoe Co. 267,818; Mar. 4; Serial No. 290,650; published Dec. 10, 1929.
Shoes, Ladies'. Forsythe Shoe Corporation. 267,822; Mar. 4; Serial No. 290,350; published Dec. 10, 1929.
Shoes, Ladies'. Johnson-Stephens & Shinkle Shoe Company. 268,010; Mar. 4; Serial No. 289,974; published Dec. 17, 1929.
Undershirts and underdrawers. B. V. D. Company. 77,436; renewed Apr. 12, 1930.

CLASS 40

Buttons. Atlas Tack Corporation. 268,075; Mar. 4; Serial No. 288,062; published Dec. 10, 1929.

CLASS 42

Cotton cloth piece goods. Franklin Manufacturing Co. 78,411; renewed June 14, 1930.
Cotton piece goods. Emile Meyer & Co. 268,006; Mar. 4; Serial No. 290,187; published Nov. 5, 1929.
Hair nets. Samuie Bonat & Brother. 267,999; Mar. 4; Serial No. 291,713; published Dec. 17, 1929.
Handkerchiefs, Quality Manufacturing Company. 268,009; Mar. 4; Serial No. 290,426; published Dec. 17, 1929.
Silk in the piece, cotton piece goods, and silk and cotton piece goods, Broad. Rogers & Thompson. 76,772; renewed Feb. 15, 1930.
Tablecloths and napkins, Linen. G. MacPherson. 268,015; Mar. 4; Serial No. 289,469; published Dec. 17, 1929.
Woolen goods. S. Stein & Co. 267,982; Mar. 4; Serial No. 286,188; published Dec. 17, 1929.
Worsted goods in the piece. International Worsted Mills. 268,074; Mar. 4; Serial No. 288,550; published Dec. 17, 1929.

CLASS 43

Silk and sewing silk, Darning and mending. Heminway & Bartlett Silk Co. 267,983; Mar. 4; Serial No. 285,712; published Dec. 17, 1929.

CLASS 45

Ginger ale and lemon soda. Beaver Dam Bottling Company. 267,865; Mar. 4; Serial No. 291,812; published Dec. 17, 1929.
Maltless beverages. NuGrape Company of America. 267,874; Mar. 4; Serial No. 291,171; published Dec. 17, 1929.

CLASS 46

Alimentary pastes. H. Saidiner. 268,086; Mar. 4.
Bakery products. P. Cariola & Co. 268,067; Mar. 4; Serial No. 285,012; published Dec. 17, 1929.
Bread. T. B. Finney & Company. 267,786; Mar. 4; Serial No. 290,749; published Dec. 17, 1929.
Cakes and biscuits. W. B. van Doesburg. 77,888; renewed May 10, 1930.
Candy bars, Chocolate-coated. Jolly John's Candy Company Incorporated. 267,920; Mar. 4; Serial No. 273,105; published Dec. 17, 1929.
Canned fish. Italian Food Products Company. 267,843; Mar. 4; Serial No. 267,963; published Dec. 17, 1929.
Canned fruits and vegetables and tomato paste. L. Zerillo. 267,904; Mar. 4; Serial No. 255,690; published Jan. 1, 1929.
Canned vegetables, sauerkraut, fish and oysters. Webster Grocer Company. 77,592; renewed Apr. 19, 1930.
Catchup, chile con carne, canned berries, etc. Janszen Company. 267,903; Mar. 4; Serial No. 259,495; published July 3, 1928.
Cereal breakfast food. Kadota Fig Products Co. 267,919; Mar. 4; Serial No. 273,147; published Dec. 17, 1929.
Coffee. Edwin J. Gillies & Co. of Kentucky. 78,413; renewed June 14, 1930.
Coffee and canned fruits and vegetables. H. D. Lee Mercantile Company. 78,757; renewed July 5, 1930.
Cucumbers, Fresh hothouse. Colorado Floral Company. 268,008; Mar. 4; Serial No. 290,744; published Dec. 17, 1929.
Doughnuts. R. L. Bowers. 268,080; Mar. 4.
Doughnuts, crullers, and fried cakes. Joe Lowe Corporation. 267,940; Mar. 4; Serial No. 280,338; published Dec. 17, 1929.
Egg noodles, egg barley, cut noodles, and flakes. Elka Noodle Corporation. 267,979; Mar. 4; Serial No. 287,057; published Dec. 17, 1929.
Eggs, Fresh. Younglove Grocery Company. 267,940; Mar. 4; Serial No. 282,352; published Dec. 17, 1929.
Extracts, Malt. Puritain Malt Extract Co. 267,844; Mar. 4; Serial No. 267,387; published Dec. 17, 1929.
Feeds with a high mineral content for cattle, hogs, etc. Murphy Products Company. 268,079; Mar. 4.
Flour. Ballard & Ballard Co. 267,781; Mar. 4; Serial No. 292,151; published Dec. 17, 1929.
Flour, cereal, corn meal, etc. Go-Far Cereal Mills. 268,062; Mar. 4; Serial No. 286,676; published Dec. 17, 1929.
Flour, Pancake. Pillsbury Flour Mills Company. 267,782; Mar. 4; Serial No. 291,933; published Dec. 17, 1929.
Flour, Wheat. C. L. Plumb. 76,531; renewed Jan. 25, 1930.
Flour, Wheat. Tacoma Grain Company. 78,836; renewed July 12, 1930.
Flour, Wheat and self-rising. H. C. Cole Milling Company. 267,994; Mar. 4; Serial No. 288,638; published Dec. 17, 1929.
Food, Poultry. Albers Bros. Milling Co. 268,090; Mar. 4.
Foods. H. D. Lee Mercantile Company. 78,808; renewed July 12, 1930.

Foods. Westmoreland Grocery Company. 78,921; renewed July 19, 1930.
Foods, Certain. Park & Tilford. 76,794; renewed Feb. 15, 1930.
Foods, Thickener for. Frutsips, Incorporated. 267,998; Mar. 4; Serial No. 291,916; published Dec. 17, 1929.
Fruits, Citrus. Ontario-Cucamonga Fruit Exchange. 77,328; renewed Mar. 29, 1930.
Fruits, Dried and evaporated. R. C. Williams & Co. 78,849; renewed July 12, 1930.
Fruits, Fresh citrus. Chula Vista Citrus Association 267,929; Mar. 4; Serial No. 269,511; published Sept. 18, 1928.
Grains, starter mash, etc., Devoloping. El Campo Rice Milling Company. 267,853; Mar. 4; Serial No. 284,293; published Dec. 17, 1929.
Grapefruit, Fresh. Coachella Valley Grapefruit Association. 267,900; Mar. 4; Serial No. 277,481; published Mar. 5, 1929.
Marmalades, honey, peaches, etc. Lush'us Products Co. 268,003; Mar. 4; Serial No. 291,282; published Dec. 17, 1929.
Olives. C. M. Gifford & Sons. 268,001; Mar. 4; Serial No. 291,448; published Dec. 17, 1929.
Peanut butter. Rogers Company. 268,000; Mar. 4; Serial No. 291,477; published Dec. 17, 1929.
Poultry, Dressed. Brink & Sons Inc. 267,849; Mar. 4; Serial No. 284,897; published Dec. 17, 1929.
Rolls. Papendick Bakery Co. 267,784; Mar. 4; Serial No. 291,067; published Dec. 17, 1929.
Salad dressings. Russell's Mayonnaise Co. Inc. 267,950; Mar. 4; Serial No. 280,285; published Dec. 17, 1929.
Sandwiches, tamales, and vegetables. Golden Goose Hamburger System. 267,918; Mar. 4; Serial No. 273,296; published Dec. 17, 1929.
Sugar. Imperial Sugar Co. 268,005; Mar. 4; Serial No. 291,222; published Dec. 17, 1929.
Syrup, Malt. La Crosse Refining Company. 267,901; Mar. 4; Serial No. 277,300; published Dec. 17, 1929.
Syrup, Table. Haas, Baruch & Company. 268,076; Mar. 4; Serial No. 287,816; published Dec. 17, 1929.
Tea. Closset & Devers. 78,311; renewed June 7, 1930.
Tea and coffee. Vermont Tea and Butter Co. 267,910; Mar. 4; Serial No. 276,353; published Dec. 17, 1929.
Tea and roasted coffee, Blended. Ridenour-Baker Grocery Company. 77,140; renewed Mar. 15, 1930.
Vegetable food substance. Whiffen & Sons Limited. 267,981; Mar. 4; Serial No. 286,142; published Dec. 17, 1929.
Vinegar. American Fruit Product Company. 78,761; renewed July 12, 1930.

CLASS 50

Artificial trees. A. Blasic. 267,852; Mar. 4; Serial No. 284,889; published Dec. 10, 1929.
Bottle caps. Cupples Company, Manufacturers. 267,921; Mar. 4; Serial No. 273,100; published Dec. 10, 1929.
Caps, Bottle. Williams Sealing Corporation. 267,854; Mar. 4; Serial No. 284,258; published Dec. 3, 1929.
Caps, Bottle and jar. Ferdinand Gutmann & Co. 267,954; Mar. 4; Serial No. 279,846; published Dec. 17, 1929.
Drapes, draperies, table covers, etc. Para Rubber Company. 267,925; Mar. 4; Serial No. 271,505; published Nov. 19, 1929.
Drapes, table covers, etc. Para Rubber Company. 267,926; Mar. 4; Serial No. 271,504; published Dec. 10, 1929.
Fabrics, Rubberised. Haarts-Mason Rubber Manufacturing Company. 268,042; Mar. 4; Serial No. 289,971; published Nov. 19, 1929.
Hangers, trousers hangers, skirt bangers, pennants, tie racks, etc., Coat. Wm. Filene's Sons Company. 267,988; Mar. 4; Serial No. 289,725; published Dec. 17, 1929.
Leather, Artificial. F. S. Carr Company. 268,050; Mar. 4; Serial No. 290,818; published Dec. 17, 1929.
Material composed of braided strips of leather with a cloth backing. Belgian Leather Company. 267,993; Mar. 4; Serial No. 289,000; published Dec. 10, 1929.
Mats, Rubber coin. Eno Rubber Corporation. 268,044; Mar. 4; Serial No. 289,880; published Nov. 19, 1929.
Mats, Rubber floor. Eno Rubber Corporation. 268,043; Mar. 20; Serial No. 289,881; published Nov. 19, 1929.
Piece goods. Windram Manufacturing Co. 267,914; Mar. 4; Serial No. 274,618; published Dec. 3, 1929.
Road signs. American Highway Service. 267,959; Mar. 4; Serial No. 288,738; published Dec. 3, 1929.
Works of art. A. Archipenko. 267,961; Mar. 4; Serial No. 286,021; published Dec. 3, 1929.

ALPHABETICAL LIST OF LABELS

Alpine One Coat Enamel. For Paint. L. Leavitt. 37,184; Mar. 4.
Barack Shoe Co. For Boxes. Hoague-Sprague Corporation. 37,179; Mar. 4.
Cough Drop's Every Drop a Cure. For Cough Drops. G. V. T. Kinsey. 37,183; Mar. 4.
Dri-Brite. For Wax. Miratul Wax Co. 37,186; Mar. 4.
Eat More Honey. For Comb Honey. G. B. Lewis Company. 37,185; Mar. 4.
Educational Equipment School Service. For School Supplies. E. M. Hale. 37,177; Mar. 4.
Fleischmann's Phos-Fo-Lac. For Phosphate and Lactate Mixture Suitable for Use with Sodium Bicarbonate for the Same Purpose as Baking Powder. Standard Brands Incorporated. 37,187; Mar. 4.
Fleischmann's Yeast—Fleischmann's Service. For Yeast. Standard Brands Incorporated. 37,188; Mar. 4.
Freyschlag Bros. F Finest Santa Clara Co. Juice Grapes. For Grapes. C. B. Freyschlag. 37,175; Mar. 4.
Garden Ale. For Nonalcoholic Cereal Maltless Beverage. W. M. Irvin. 37,182; Mar. 4.
Grandone Internal Cleanser. For Tonic Laxative. H. G. Grandone, D. C. 37,176; Mar. 4.
Hellmann's Salad Dressing. For Salad Dressing. R. Hellmann. 37,178; Mar. 4.
Howey Grapefruit Juice. For Grapefruit Juice. Howey-In-The-Hills Juice Company. 37,180; Mar. 4.
La Jacienta. For Cigars. H. Weinstein. 37,190; Mar. 4.
Mary Fraser. For Candles. Mary Fraser Candles, Inc. 37,174; Mar. 4.
Mozz-Alleva. For Cheese. P. E. C. Alleva. 37,173; Mar. 4.
Mozzarelle. For Cheese. P. E. C. Alleva. 37,172; Mar. 4.
Wall Paper Ass'n of U. S. A.—Wall Paper. For Wall Paper. Wallpaper Association of the United States. 37,189; Mar. 4.
Wheatsworth Animals. For Crackers. Wheatsworth, Inc. 37,192; Mar. 4.
Wheatsworth Fruit Biscuit. For Biscuits. Wheatsworth, Inc. 37,191; Mar. 4.
Wheatsworth Gingerettes. For Crackers. Wheatsworth, Inc. 37,193; Mar. 4.
Whoopee. For Malt Syrup. L. L. Hughes. 37,181; Mar. 4.

ALPHABETICAL LIST OF PRINTS

Blu Boy Clothes. For Boys' Clothing. Kronfeldt & Karlin, Inc. 12,405; Mar. 4.
Ellwood Ribbons and Carbon Paper. For Typewriter-Machine Ribbons and Carbon Paper. Underwood Typewriter Company. 12,423; Mar. 4.
Express. For Malt Extract. Premier Malt Products Co. 12,419; Mar. 4.
Film is Removed With Pepsodent, Recommended for Sensitive Teeth. For Tooth Paste. Pepsodent Co. 12,409; Mar. 4.
Fritz. For Malt Extract. Premier Malt Products Co. 12,413; Mar. 4.
Here They Are! Amos 'N' Andy, Brought to You in Person, by Pepsodent. For Tooth Paste. Pepsodent Co. 12,408; Mar. 4.
Kitty. For Malt Extract. Premier Malt Products Co. 12,417; Mar. 4.
Lena's Flower Pot. For Malt Extract. Premier Malt Products Co. 12,411; Mar. 4.
Pepsodent Removes Film, Recommended for Sensitive Teeth. For Tooth Paste. Pepsodent Co. 12,407; Mar. 4.
Post Office. For Malt Extract. Premier Malt Products Co. 12,420; Mar. 4.
The Butler. For Malt Extract. Premier Malt Products Co. 12,415; Mar. 4.
The Fisherman. For Malt Extract. Premier Malt Products Co. 12,414; Mar. 4.
The Grindstone. For Malt Extract. Premier Malt Products Co. 12,412; Mar. 4.
The Integrity of the House is Reflected in the Quality of Its Products. For Essential Oils. Dodge & Olcott Company. 12,404; Mar. 4.
The Letter. For Malt Extract. Premier Malt Products Co. 12,418; Mar. 4.
The Organ Grinder. For Malt Extract. Premier Malt Extract Co. 12,421; Mar. 4.
The Prospector. For Malt Extract. Premier Malt Products Co. 12,410; Mar. 4.
The Sailors. For Malt Extract. Premier Malt Products Co. 12,416; Mar. 4.
The Sign of Good Coffee Everywhere. For Coffee. M. J. B. Co. 12,406; Mar. 4.
Tongue Tip Tells Strength and Flavor. For Salt. Consolidated Salt Co. 12,403; Mar. 4.
Where Do We Go from Here. For Malt Extract. Premier Malt Products Co. 12,422; Mar. 4.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A. B. A. Specialties Company. (See Fridolph, Annette, assignor.)
A C Spark Plug Company. (See Blair, Mark L., assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
A. G. Brown Boveri & Cie. (See Meyerhans, August, assignor.)
Abel, Albert B., Sydney, New South Wales, Australia. Safety frying pan. 1,749,239; Mar. 4.
Abercrombie, Edward M. (See Patterson, Herbert, assignor.)
Abraham, Earl A. (See Moyers, G. L., and Abraham.)
Ackerman, Blaesser, Fessy, Inc. (See Zwierzina, Alois J., assignor.)
Ackerman, George W., New York, N. Y. Door attachment. 1,749,065; Mar. 4.
Add-Index Corporation. (See Broman, Charles E., assignor.)
Aeolian Company, The. (See Cheek, Tolbert F., assignor.)
Aeolian Company, The. (See Volare, Fred, assignor.)
Agazzi, Theodore, Brooklyn, N. Y. Combination article of furniture. 1,749,686; Mar. 4.
Airship Guarantee Company, Limited. (See Burney, Charles D., assignor.)
Akers, Herbert S., Montvale, N. J., assignor to The Knyscheerer Corporation of America, New York, N. Y. Diathermy. 1,748,937; Mar. 4.
Aktiengesellschaft Brown Boveri & Cie. (See de Freudenreich, J., and Frey, assignors.)
Aktiengesellschaft Brown Boveri & Cie. (See Haller, Arnold, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Keller, Robert, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Wichert, Alfred, assignor.)
Albrecht, Herman S., St. Louis, Mo. Measuring device. 1,749,056; Mar. 4.
Albright, Frank, Bronx, and W. Elsasser, Brooklyn, assignors to Stanley & Patterson, Inc., New York, N. Y. Electric signal bell. 1,749,175; Mar. 4.
Albright, Frank, Bronx, and W. Elsasser, Brooklyn, assignors to Stanley & Patterson, Inc., New York, N. Y. Electric signal bell. 1,749,176; Mar. 4.
Alderman, Eugene R., South Hadley, Mass. Swift. 1,749,460; Mar. 4.
Allen, Edwin M. (See Allen, William H., sr., and E. M.)
Allen, Frank L. (See Kopke, Ernst W., assignor.)
Allen, Pauline E., et al. (See Allen, William H., sr., assignor, and Allen.)
Allen-Sherman-Hoff Company, The. (See Striegel, Leslie E., assignor.)
Allen, Viola C., et al. (See Allen, William H., sr., assignor, and Allen.)
Allen, William H., sr., and E. M.; W. H. Allen, sr., assignor to P. E. Allen and V. C. Allen, Freehold, N. J. Potato harvester. 1,749,205; Mar. 4.
Aluminum Company of America. (See Edwards, Junius D., assignor.)
American Telephone and Telegraph Company. (See Bisbee, Frederick C., assignor.)
American Telephone and Telegraph Company. (See Edwards, William H., assignor.)
American Telephone and Telegraph Company. (See Niles, Elliot W., assignor.)
American Telephone and Telegraph Company. (See Nyquist, H., and Pfleger, assignors.)
American Telephone and Telegraph Company. (See Thorp, V. P., and Rea, assignors.)
Amrein, August, St. Petersburg, Fla. Shade or blind. 1,749,556; Mar. 4.
Anchor Cap & Closure Corporation. (See Jaeger, Max, assignor.)
Anderson, Adolph I., Zumbrota, Minn. Door and lintel for silos. 1,749,687; Mar. 4.
Anderson, Arvid E., Lansdowne, Pa., assignor to General Electric Company. Automatic reclosing circuit breaker system. 1,749,638; Mar. 4.
Andres, Frank M., Garrett, Ind. Window ventilator. 1,749,093; Mar. 4.
Annen, James E. (See Frostad, G. O., and Annen.)
Armentrout, Arthur L., Los Angeles, Calif. Apparatus for separating solids from liquids. 1,749,057; Mar. 4.
Armstrong, James R., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Integrating and recording device for fluid meters. 1,749,094; Mar. 4.
Aseltine, Fred E., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Fuel-charging device. 1,749,807; Mar. 4.
Ashley, Frank M., Brooklyn, N. Y. Pipe for smoking tobacco. 1,749,809; Mar. 4.
Atwater Kent Manufacturing Company. (See Fenton, Almon N., assignor.)
Atwater Kent Manufacturing Company. (See Majer, Carl T., assignor.)
Ault, Van J., Fort Dodge, Iowa. Ice-cream carrier. 1,749,658; Mar. 4.
Austin, Miner M., Waukegan, and L. J. Warner, North Chicago, assignors to Fansteel Products Company, Inc., North Chicago, Ill. Soldering contact points. 1,748,938; Mar. 4.
Automatic Anchor-Control Corporation. (See Schauman, Frank and B. M., assignors.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Automatic Guns, Inc. (See Hudson, Robert F., assignor.)
Automatic Word Counter, Inc. (See Llorens, Louis M., assignor.)
Automotive Gear Works, Inc. (See Hamilton, Charles E., assignor.)
Ayres, Arthur U. (See Jones, L. D., and Ayres.)
Baird Machine Company, The. (See Lewis, Arthur J., assignor.)
Baker, William H., Montreal, Quebec, Canada. Let-off for looms. 1,749,120; Mar. 4.
Barbato, Theodore, Union City, N. J. Slab construction. 1,749,524; Mar. 4.
Barbou, Pierre A., assignor to Société Barbou & Cie., Paris, France. Treating residual liquors accruing from the treatment of cellulose material. 1,749,557; Mar. 4.
Barclay, Hjalmar V., New York, N. Y. Hernia support. 1,748,939; Mar. 4.
Barill, Arthur E. H., and J. A. Hyle, Los Angeles, Calif., assignors to Empire Railway Supply Corporation. Railway-rail anchor. 1,749,558; Mar. 4.
Barlow, Lester P., Stamford, Conn. Rotary pump. 1,749,058; Mar. 4.
Barlow, Lester P., Stamford, Conn. Rotary pump. 1,749,121; Mar. 4.
Barnes, John S., assignor to W. F. and J. Barnes Company Rockford, Ill. Drilling machine. 1,748,941; Mar. 4.
Barnes, W. F. and John, Company. (See Barnes, John S., assignor.)
Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,748,968; Mar. 4.
Barrett Company, The. (See Hunicke, Raymond S., assignor.)
Barrows, Allan S., Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car door. 1,748,942; Mar. 4.
Barrows, Donald S., Rochester, N. Y., assignor, by mesne assignments, to The Symington Company. Journal box. 1,749,065; Mar. 4.
Barstow, Edwin O. (See Dow, H. H., and Barstow.)
Bartlett-Collins Company. (See Bartlett, Edward E., assignor.)
Bartlett, Edward E., assignor to Bartlett-Collins Company, Sapulpa, Okla. Tumbler or similar article. Des. 80,596; Mar. 4.
Bassett, Preston R., assignor, by mesne assignments, to Sperry Gyroscope Company Inc., Brooklyn, N. Y. Gyroscopic compass. 1,749,059; Mar. 4.
Bassick Company, The. (See Claud-Mantle, Arthur, assignor.)
Bassick Company, The. (See Moore, R. G., and Sargent, assignors.)
Batson, Jonas W., Spartanburg, S. C. Brake mechanism. 1,749,624; Mar. 4.
Bauer, Carl F., Rock Island, assignor to Deere & Company, Moline, Ill. Rotary hoe. 1,749,206; Mar. 4.
Bann, Fred T., Marion, Ind. Toy target. 1,749,689; Mar. 4.
Baxter, John B., Troy, assignor to Covert Manufacturing Company, Watervliet, N. Y. Link. 1,749,096; Mar. 4.
Baxter, Roy N., Portland, and B. C. Rue, Tigard, Oreg. Silencing cover for machines. 1,749,177; Mar. 4.
Beach, Ray G., assignor to H. Lavery, Bridgeport, Conn. Gummed-tape-dispensing machine. 1,748,940; Mar. 4.
Beach, Ray G., Fairfield, assignor to H. Lavery, Bridgeport, Conn. Gummed-tape-dispensing machine. 1,749,407; Mar. 4.
Bearland, Lawrence M., Missoula, Mont. Turn signal. 1,749,690; Mar. 4.
Beasley, Starley F., Tulsa, Okla., assignor to Peerless Car & Equipment Co., Kansas City, Mo. Bolted dome cover. 1,749,122; Mar. 4.
Beattey, Earle J. R., Edgewood, assignor to Universal Optical Corporation, Providence, R. I. Bridge for an eyeglass mounting. Des. 80,603; Mar. 4.
Beaumont, R. H., Company. (See Beaumont, Robert H., assignor.)

Beaumont, Robert H., Radnor, assignor to R. H. Beaumont Company, Philadelphia, Pa. Cable-control device. 1,749,060; Mar. 4.

Beck, Sigmund, Nuremberg, Germany. Shaving brush. 1,749,309; Mar. 4.

Becker, Albert E., Ogden, Utah. Apparatus for carbonating liquids. 1,749,625; Mar. 4.

Beckman, Gustaf S., Cranston, R. I., assignor to Universal Winding Company, Boston, Mass. Slug catcher or yarn cleaner. 1,749,461; Mar. 4.

Behnke, Cord H., Flushing, assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Retaining device for caps. 1,749,462; Mar. 4.

Behr, Hans C., Scarsdale, N. Y. Continuous separation of liquids and solids. 1,749,368; Mar. 4.

Behr, Hans C., Scarsdale, N. Y. Centrifugal drier. 1,749,369; Mar. 4.

Behr, Hans C., Scarsdale, N. Y. Centrifugal drier. 1,749,370; Mar. 4.

Belanger, Albert P. D., assignor to Reynolds Electric Company, Chicago, Ill. Apparatus for smoking, curing, and drying food products and the like. 1,749,559; Mar. 4.

Belcher, Donald M., Winchester, assignor to Coffin Valve Company, Neponset, Mass. Valve-operating device. 1,749,310; Mar. 4.

Beldam, George W., and J. Smith, Ealing, assignors to The Beldam Packing & Rubber Company Limited, London, England. Packing for making fluid-tight joints between parts of engines or machines having relative movement. 1,749,659; Mar. 4.

Belding Packing & Rubber Company Limited, The. (See Beldam, G. W., and Smith, assignors.)

Belflex Corporation, The. (See Church, Harold D., assignor.)

Bellah, George R., Los Angeles, assignor of one-half to E. J. Naffziger, Glendale, Calif. Garden tool. 1,749,271; Mar. 4.

Bendix Brake Company. (See Dodge, Adiel Y., assignor.)

Bendix Brake Company. (See Lyman, Kenneth E., assignor.)

Ben'off, Hugo, Pasadena, Calif., assignor to Carnegie Institution of Washington, Washington, D. C. Plate-current supply for vacuum tubes. 1,749,660; Mar. 4.

Benjamin, E. V., Co., The. (See Orndoff, Herbert W., assignor.)

Bennett, Anna Z., San Diego, Calif. Thread holder and cutter. 1,749,691; Mar. 4.

Benson, Arthur E., Boston, assignor to Draper Corporation, Hopedale, Mass. Shed-diverting means for looms. 1,749,123; Mar. 4.

Benton, Frank H., Topeka, Kans. Locomotive valve gear. 1,749,408; Mar. 4.

Berg, Almer A., Minneapolis, Minn. Device for forming hamburger pats and the like. 1,749,178; Mar. 4.

Berg, Hart O. (See Michel, Gilbert, assignor.)

Berger, George C. (See O'Hagen, A. M., and Berger.)

Beringer, Roscoe, assignor to General Motors Corporation, Detroit, Mich. Pivot joint. 1,749,311; Mar. 4.

Berliner, Robert. (See Trautner, W., Stein, and Berliner.)

Bernhard, Lucian, New York, N. Y. Armchair. Des. 80,597; Mar. 4.

Bernhard, Lucian, New York, N. Y. Chair. Des. 80,598; Mar. 4.

Bernhard, Lucian, New York, N. Y. Settee. Des. 80,599; Mar. 4.

Bernhard, Lucian, New York, N. Y. Sofa. Des. 80,600; Mar. 4.

Bernhard, Lucian, New York, N. Y. Settee. Des. 80,601; Mar. 4.

Bernhard, Lucian, New York, N. Y. Upholstered chair. Des. 80,602; Mar. 4.

Berry, Anna. (See Siemsen, Jurgen, assignor.)

Bertsch, Heinrich, assignor to H. Th. Böhme A. G., Chemnits, Germany. Obtaining sulphonation products from polymerized fats or oils or the acids thereof. 1,749,463; Mar. 4.

Bessler Disappearing Stairway Company, The. (See Bessler, Frank E., assignor.)

Bessler, Frank E., assignor to The Bessler Disappearing Stairway Company, Akron, Ohio. Movable stairway. 1,749,409; Mar. 4.

Bethlehem Steel Company. (See Miller, William T., assignor.)

Bethlehem Steel Company. (See Shankland, Archibald D., assignor.)

Bethlehem Steel Company. (See Stevens, Richard H., assignor.)

Bird, William W., San Diego, Calif. Airplane. 1,749,272; Mar. 4.

Bisbee, Frederick C., Elizabeth, N. J., assignor to American Telephone and Telegraph Company. Meter. 1,749,015; Mar. 4.

Black, John C., assignor, by mesne assignments, to Richfield Oil Company of California, Los Angeles, Calif. Purifying hydrocarbons. 1,749,240; Mar. 4.

Blacker, Earl, Everett, Wash. Bag-delivering machine. 1,749,061; Mar. 4.

Blair, Mark L., assignor to A C Spark Plug Company, Flint, Mich. Dispensing gun for decarbonizing liquids. 1,749,312; Mar. 4.

Blair, Robert S., Stamford, Conn. Nonslipping device. 1,749,207; Mar. 4.

Blake, Herbert T., Burley, Idaho. Machine for cleaning beans, peas, etc. 1,748,943; Mar. 4.

Bland, John, Tinton, S. Dak. Apparatus and process for minerals separation. 1,749,871; Mar. 4.

Blankenstein, Edward B., and C. M. Coulter, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Testing materials. 1,748,969; Mar. 4.

Blasio, Antone, Los Angeles, Calif. Artificial tree. 1,749,097; Mar. 4.

Bleil, Clarence J., Los Angeles, Calif. Drier. 1,749,525; Mar. 4.

Bliss, E. W., Company. (See Strout, Robert W., assignor.)

Blood, Harold L., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Serving apparatus. 1,748,970; Mar. 4.

Bloom, Arthur R., Minneapolis, Minn. Sign device. 1,749,062; Mar. 4.

Bloom, Fred C., St. Paul, Minn. Animal trap. 1,749,372; Mar. 4.

Boals, Harry R., assignor to Corning Glass Works, Corning, N. Y. Method of and apparatus for making tubing. 1,749,016; Mar. 4.

Boeing Airplane Company. (See Minshall, Robert J., assignor.)

Boggs, Clarence E., Boise, Idaho, assignor to Edison Electric Appliance Company, Inc. Electric heating system. 1,749,692; Mar. 4.

Boggs, Clarence E., Boise, Idaho, assignor to Edison Electric Appliance Company, Inc. Control switch. 1,749,693; Mar. 4.

Böhme, H. Th. A. G. (See Bertsch, Heinrich, assignor.)

Bond, John W., Victoria, British Columbia, Canada. Floating sinker. 1,749,464; Mar. 4.

Boosey, Edward W. N., Detroit, Mich. Back-pressure valve for drainage systems. 1,749,098; Mar. 4.

Boynton, Alexander, San Antonio, Tex. Automatic well flowing device. 1,749,124; Mar. 4.

Bozelle, Nate O., San Jose, Calif. Music-leaf turner. 1,749,273; Mar. 4.

Brechting, Alfred. (See Warren, John R., assignor.)

Breuer, Adam A., Chicago, Ill. Combined blower and suction device. 1,749,373; Mar. 4.

Brickle, Peter E. (See Uhl, A., and Brickle.)

Brinker, Frederic A., San Francisco, Calif., assignor of one-fourth to J. F. Ruth, jr., Denver, Colo. Two-step sulphatizing roast. 1,749,125; Mar. 4.

Britton, T. J. (See Lambing, William C., assignor.)

Broman, Charles E., Grand Rapids, Mich., assignor, by mesne assignments, to Add-Index Corporation. Adding and recording machine. 1,749,694; Mar. 4.

Brown, Charles A., Salem, and G. J. Esselen, jr., Swampscott, assignors to Manufacturing Improvement Corporation, Boston, Mass. Treating wool and the wool thus treated. 1,749,410; Mar. 4.

Brown, Charles H., Breckenridge, Tex. Rod guide. 1,749,626; Mar. 4.

Brown Company. (See Richter, George A., assignor.)

Brown Company. (See Schur, M. O., and Rasch, assignor.)

Brown, James M., deceased, by J. D. Brown, administratrix, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,749,560; Mar. 4.

Brown, Jane D., administratrix. (See Brown, James M.)

Brown, Joseph A. (See Brown, Sam R., assignor.)

Brown-Lipe Gear Company, The. (See Carhart, George C., assignor.)

Brown, Sam R., Burlingame, assignor of one-half to J. A. Brown, San Francisco, Calif. Safety device. 1,749,063; Mar. 4.

Brown & Sharpe Manufacturing Company. (See Graves, Benjamin P., assignor.)

Brown, Theophilus, assignor to Deere & Company, Moline, Ill. Gang plow. 1,749,064; Mar. 4.

Brownback, Henry L., Norristown, Pa., assignor to Brownback Motor Laboratories, Inc., New York, N. Y. Speed boat. 1,749,017; Mar. 4.

Brownback Motor Laboratories, Inc. (See Brownback, Henry L., assignor.)

Browne, Theodore C., Cleveland, Ohio. Resistor. 1,749,661; Mar. 4.

Browne, Theodore C., Cleveland, Ohio. Resistor. 1,749,662; Mar. 4.

Bryant Electric Company, The. (See Hogan, Jay J., assignor.)

Bubblestone Company, The. (See Rice, John A., assignor.)

Buck, Sterling P. (See Suarez, Joseph M., assignor.)

Buckeye Blower Company, The. (See Davis, H. C., and Harnett, assignors.)

Buckeye Steel Castings Company, The. (See Orr, Claude L., assignor.)

Buckeye Traction Ditcher Company, The. (See George, Charles L., assignor.)

Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Mounting roller bearings on car axles. 1,748,971; Mar. 4.

Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Railway-car journal bearing. 1,748,972; Mar. 4.

Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Mounting roller bearings on car axles. 1,748,973; Mar. 4.

Buffalo Bolt Company. (See Plumb, Ralph, assignor.)

Buffalo Wire Works Co. Inc. (See Scheeler, John C., assignor.)

Builders' Patent Scaffolding Company. (See Kingston, Frank G., assignor.)

Bullard Company, The. (See Bullard, Edward P., jr., assignor.)

Bullard, Edward P., jr., Stratford, assignor to The Bullard Company, Bridgeport, Conn. Machine tool. 1,749,374; Mar. 4.

Bunce, Earl H., and G. T. Mahler, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Reducing zinciferous materials. 1,749,126; Mar. 4.

Bunce, Earl H., and G. T. Mahler, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Reducing zinciferous materials containing lead. 1,749,127; Mar. 4.

Burmeister, Hans, Berlin, Germany, assignor to Pyrene-Minimax Corporation. Apparatus for producing foam for fire-extinguishing purposes. 1,749,411; Mar. 4.

Burney, Charles D., Westminster, London, assignor to Airship Guarantee Company Limited, London, England. Berthing airships. 1,749,065; Mar. 4.

Burtchaell, Roy, Newark, N. J. Sanitary nursing-bottle cap. 1,749,313; Mar. 4.

Burton, Ralph B., assignor of one-half to L. G. S. Devices Corporation, Indianapolis, Ind. Safety stop for vehicles. 1,749,066; Mar. 4.

Buss, August, Detroit, Mich. Air-relief device. 1,749,128; Mar. 4.

Cadman, Ralph W., Pittsburgh, Pa. Degasification of liquids. 1,749,561; Mar. 4.

Camp, Curtis B., trustee. (See Welch, Horace H., assignor.)

Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Slack adjuster. 1,749,018; Mar. 4.

Carbis, Sam H., Tarentum, Pa. Casting apparatus. 1,749,314; Mar. 4.

Carhart, George C., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y. Torque cushioning mechanism. 1,749,315; Mar. 4.

Car-Kra Corporation. (See Kramer, John G., assignor.)

Carlson, Edward, Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Record device. 1,749,208; Mar. 4.

Carlson, Hjalmar G., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass. Sprinkler head. 1,749,627; Mar. 4.

Carnegie Institution of Washington. (See Benioff, Hugo, assignor.)

Carroll, John B., Oak Park, Ill. Calendar. 1,749,562; Mar. 4.

Carter's Ink Company, The. (See Lafrance, David J., assignor.)

Case Research Laboratory Incorporated. (See Case, Theodore W., assignor.)

Case, Theodore W., assignor to Case Research Laboratory Incorporated, Auburn, N. Y. Talking-picture apparatus. 1,749,412; Mar. 4.

Caskin, Langdon, Devon, Pa. Snow-shovel attachment for vehicles. 1,749,465; Mar. 4.

Catlin, Joseph P., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Preserving form rolls. 1,749,316; Mar. 4.

Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Brush structure. 1,749,732; Mar. 4.

Cave, Henry, assignor to The Fuller Brush Company, Hartford, Conn. Floor brush. 1,749,737; Mar. 4.

Cave, Henry, Hartford, and C. F. Smith, West Hartford, assignors to The Fuller Brush Company, Hartford, Conn. Corner brush. 1,749,733; Mar. 4.

Central Furniture Frame Co. Inc. (See Stoll, Charles, assignor.)

Challans, Eric W., King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Electromechanical device of the induction type. 1,748,944; Mar. 4.

Chamberlain, Harold B., East Orange, N. J., assignor to Tuco Products Corporation, New York, N. Y. Floor construction. 1,749,563; Mar. 4.

Chapman, Fred A., assignor to Ypsilanti Reed Furniture Company, Ionia, Mich. Chair. Des. 80,604; Mar. 4.

Chapman, Fred A., assignor to Ypsilanti Reed Furniture Company, Ionia, Mich. Chair. Des. 80,605; Mar. 4.

Cheek, Tolbert F., New York, N. Y., assignor to The Aeolian Company. Expression device for automatic musical instruments. 1,749,413; Mar. 4.

Chevalier, Charles G., Baltimore, Md. Compound for cleaning. 1,749,317; Mar. 4.

Christiansen, Ejnar, assignor of one-half to C. O. Ericsson, Birmingham, England. Intermittent gearing. 1,749,663; Mar. 4.

Christianson, Carl O., Merriman, Nebr., assignor to Super-Automatic Food-Machine Corporation, Valentine, Nebr. Automatic waffle machine. 1,749,414; Mar. 4.

Chryst, William A., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,749,319; Mar. 4.

Chryst, William A., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine starter. 1,749,320; Mar. 4.

Chryst, William A., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Universal joint. 1,749,322; Mar. 4.

Chryst, William A., and G. W. Elsey, assignors to Delco-Remy Corporation, Dayton, Ohio. Engine starter. 1,749,321; Mar. 4.

Chryst, William A., and H. C. Walters, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Liquid-supply apparatus. 1,749,318; Mar. 4.

Church, Harold D., Fairfield, Conn., assignor to The Belflex Corporation, New York, N. Y. Bracket. 1,748,974; Mar. 4.

Cincinnati Grinders Incorporated. (See Einstein, S., and Turner, assignors.)

Clapper, Josephus A. (See Law, R. B., and Clapper.)

Clark, J. R., Company, The. (See Kalgren, John E., assignor.)

Clark, Urban D. (See Scott, Vernon A., assignor.)

Clarke, John L., Forest Hills, N. Y. Match holder. 1,749,019; Mar. 4.

Claud-Mantle, Arthur, assignor to The Bassick Company, Bridgeport, Conn. Handle for automobile hood catch. Des. 80,662; Mar. 4.

Cleveland Rock Drill Company, The. (See Greve, Louis W., assignor.)

Clouse, Walter N., assignor of one-half to C. A. Lull, Tiffin, Ohio. Spark-plug-testing device. 1,749,664; Mar. 4.

Clover, John R., Enid, Okla. Towel cabinet. 1,749,628; Mar. 4.

Coal-Oil Extractio Limited, Manufacturers. (See McEwen, Samuel, assignor.)

Coca-Cola Company, The. (See Staton, John C., assignor.)

Coffin Valve Company. (See Belcher, Donald M., assignor.)

Cohen, Isreal, Philadelphia, Pa. Method of and apparatus for steaming and refinishing cloth. 1,749,564; Mar. 4.

Colby, Fred R., and A. L. Larsen, assignors to The Surface Combustion Company, Inc., Toledo, Ohio. Dumping conveyor mechanism for furnaces. 1,749,415; Mar. 4.

Cole, Clifford E., and B. W. McGinnis, Birmingham, Ala., assignors, by mesne assignments, to Nineteen Hundred Corporation, Binghamton, N. Y. Ice-cream-freezing attachment for washing machines. 1,749,067; Mar. 4.

Coleman Lamp and Stove Co. (See Coleman, William C., assignor.)

Coleman, William C., assignor to Coleman Lamp and Stove Co., Wichita, Kans. Apparatus for burning fuel. 1,749,629; Mar. 4.

Commercial National Bank, The, executor. (See Craig, Edward.)

Compton, William E., Compton, Calif. Artificial flower. 1,749,526; Mar. 4.

Concrete Engineering Company. (See Meyer, Charles L., assignor.)

Conover, Harvey, Chicago, Ill. Check book. 1,749,129; Mar. 4.

Conrad, Nicholas J., Winnetka, assignor to Schweitzer & Conrad, Chicago, Ill. Switch. Re17,611; Mar. 4.

Conrad, Nicholas J., Winnetka, assignor to Schweitzer & Conrad, Chicago, Ill. Primary cut-outs. Re17,612; Mar. 4.

Construction Machinery Company. (See Rosendahl, Nils M., assignor.)

Continental Gin Company. (See Elliott, Thomas, assignor.)

Cook, Anthony, Logan, Ohio. Combination cooker and roaster. 1,749,527; Mar. 4.

Cook, Charles D. (See Stafford, G. A., and Cook.)

Cook, John W., Topeka, Kans. Telephone and telegraph circuits. 1,749,416; Mar. 4.

Cooke, Milton W., Pittsburgh, Pa., assignor to The Ohio Brass Company, Mansfield, Ohio. Conductor support. 1,749,209; Mar. 4.

Cope Swift Company, The. (See Pierce, Hodgson S., assignor.)

Corning Glass Works. (See Boals, Harry R., assignor.)

Corning Glass Works. (See Marshall, Albert E., assignor.)

Corvell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Toilet article. 1,749,565; Mar. 4.

Coulter, Chester M. (See Blankenstein, E. E., and Coulter.)

Covert Manufacturing Company. (See Baxter, John B., assignor.)

Cowles, Edwin, Short Hills, assignor to Cowles Engineering Corporation, Sewaren, N. J. Pump. 1,749,823; Mar. 4.

Cowles Engineering Corporation. (See Cowles, Edwin, assignor.)

Craig, Edward, deceased, St. Joseph, Mich.; The Commercial National Bank, executor. Wirebound-box-blank machine. 1,748,975; Mar. 4.

Craig, Parley W., Ensley, Ala. Apparatus for proportioning liquids. 1,749,130; Mar. 4.

Craig, Robert, Dayton, Ohio. Storage and handling of motor vehicles. 1,749,824; Mar. 4.

Crane, Charles R., II, Chicago, Ill. Closet. Des. 80,606; Mar. 4.

Crichton, Leslie N., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay. 1,749,566; Mar. 4.

Crisler, Ray H., Glendale, Calif. Dumping-truck train. 1,749,274; Mar. 4.

Critchfield, Robert M., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Warning signal. 1,749,325; Mar. 4.

Crofoot, John R., Arlington Heights, Ill. Stapling machine. 1,749,466; Mar. 4.

Cromwell, John C., assignor to The Steel Sanitary Company, Alliance, Ohio. Built-up shower bath. 1,749,275; Mar. 4.

Crossan, Jesse R. (See Wolfe, W. S., and Crossan.)

Cude, Harold E. (See Rose, R. P., and Cude.)

Cummings, Rodney B. (See Goucher, E. E., and Cummings.)

Cunningham Products Corporation. (See Geiger, William F., assignor.)

Curry, John A., Mount Vernon, Ala. Bill fold. 1,749,020; Mar. 4.

Cutler-Hammer Inc. (See Milburn, William R., assignor.)

Dahl, Valentine, Woodhaven, N. Y. Cinder-block machine. 1,749,375; Mar. 4.

Dann, Joseph A. Miami, Fla., assignor to S. Dann, a free dealer under the laws of Florida. Combined ash tray and cigarette-package container. 1,749,467; Mar. 4.

Dann, Sarah, a free dealer. (See Dann, Joseph A., assignor.)

Darbonne, Joseph, jr., Elton, La. Cotton harvester and picker. 1,749,468; Mar. 4.

Daudt, Herbert W., Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkylated lead. 1,749,567; Mar. 4.

Davis, Augustine, jr., Cincinnati, Ohio. Safety device for tanks. 1,749,179; Mar. 4.

Davis, Durrel H., and L. E. Williams, assignors to Highway Trailer Company, Edgerton, Wis. Pole trailer. 1,748,976; Mar. 4.

Davis, Edward H., Cincinnati, Ohio. Aeroplane. 1,749,021; Mar. 4.

Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,749,131; Mar. 4.

Davis, Herman C., and L. D. Harnett, assignors to The Buckeye Blower Company, Columbus, Ohio. Unit heating and ventilating apparatus. 1,749,417; Mar. 4.

Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. 1,749,469; Mar. 4.

Davis, Robert L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system for triodes. 1,749,568; Mar. 4.

Dayton Scale Company. (See Osgood, L. A., and Wolf, assignors.)

Dayton Steel Foundry Company, The. (See Walther, George, assignor.)

Dean, Clyde, Chicago, Ill. Printing press. 1,749,470; Mar. 4.

De Bothezat, George, New York, N. Y. Helicopter. 1,749,471; Mar. 4.

Debski, Frank, New York, N. Y. Chair. Des. 80,607; Mar. 4.

Decker, Theodore H., Highland Park, Ill. Indicator for games. 1,749,418; Mar. 4.

Deere & Company. (See Bauer, Carl F., assignor.)

Deere & Company. (See Brown, Theophilus, assignor.)

Deere, John, Tractor Company. (See Witry, Louis W., assignor.)

De Flores, Luis, Pomfret, Conn. Speed regulator and method of speed regulation. 1,749,569; Mar. 4.

De Freudenreich, Jean, Baden, and K. Frey, Ennetbaden, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Blading for reaction turbine. 1,749,528; Mar. 4.

De Giera, Clarence A., New York, N. Y., assignor, by mesne assignments, to The Liquidometer Corporation, Wilmington, Del. Tank indicator. 1,749,419; Mar. 4.

De Land, John Del R., Pico, Calif. Orchard-protective system. 1,749,068; Mar. 4.

De Laval Separator Company, The. (See Lindgren, Hans O., assignor.)

De Laval Steam Turbine Company. (See Kennedy, Frank W., assignor.)

Delco Products Corporation. (See Aseltine, Fred E., assignor.)

Delco Products Corporation. (See Chryst, William A., assignor.)

Delco-Remy Corporation. (See Chryst, William A., assignor.)

Delco-Remy Corporation. (See Chryst, W. A., and Elsey, assignors.)

Delco-Remy Corporation. (See Chryst, W. A., and Walters, assignors.)

Delco-Remy Corporation. (See Critchfield, Robert M., assignor.)

Delco-Remy Corporation. (See Emmert, Rodger J., assignor.)

Delco-Remy Corporation. (See Goad, Louis C., assignor.)

Delco-Remy Corporation. (See Norviel, Harry E., assignor.)

Delco-Remy Corporation. (See Rippingille, Edward V., assignor.)

De Lisle, Harold L., Chicago, Ill. Filing and handling large sheets. 1,749,376; Mar. 4.

Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Collapsible core. 1,749,420; Mar. 4.

De Paemelaere, Arthur, Gardena, Calif. Egg gatherer. 1,749,472; Mar. 4.

De Rose, Joseph, Philadelphia, Pa. Water-closet. 1,749,570; Mar. 4.

Des Isleta, John C. M., Bethlehem, Pa. Roof structure. 1,749,473; Mar. 4.

De Waele, Armand, assignor to D. Gestetner, Limited, London, England. Production of stencil sheets for use in duplicating. 1,749,241; Mar. 4.

Dickson, Joseph F., and R. M. Turner, assignors, by mesne assignments, to Kewanee Boiler Company, Kewanee, Ill. Boiler. 1,748,945; Mar. 4.

Diffenderfer, Charles W., Greencastle, Pa., assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Circular-knitting machine. 1,748,946; Mar. 4.

Dill Manufacturing Company, The. (See Tobold, Ewald F., assignor.)

Dills, Charles B., Frost, Tex. Conserving storage-battery solution. 1,749,665; Mar. 4.

Dilworth, Richard M., Lakewood, and F. G. Niece, assignors to The Electro-Motive Company, Cleveland, Ohio. Apparatus for treating used lubricating oil. 1,749,571; Mar. 4.

Dirkes, Vincent M., and G. L. Terna, assignors to General Motors Research Corporation, Detroit, Mich. Striping tool. 1,749,326; Mar. 4.

Divco Detroit Corporation et al. (See Whitney, Eddy R., assignor.)

Dixson, Harry, assignor to Rolscreen Company, Pella, Iowa. Roll-screen latch. 1,749,180; Mar. 4.

Doberstein, Edward J., Blue Island, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,749,069; Mar. 4.

Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Braking of wheels. 1,749,022; Mar. 4.

Dominion Wood Heel Corporation, Limited. (See Raymond, Ralph L., assignor.)

Donaldson, Edwin B., Washington, D. C. Key holder. 1,749,630; Mar. 4.

Donnellan, Edward P., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y. Coin assorter. 1,749,421; Mar. 4.

Dorgan, Albert W., Birmingham, Mich., assignor of one-half to G. W. Yeoman, Detroit, Mich. Aeroplane. 1,749,572; Mar. 4.

Dow Chemical Company, The. (See Dow, H. H., and Barstow, assignors.)

Dow, Herbert H., and E. O. Barstow, assignors to The Dow Chemical Company, Midland, Mich. Utilization of dolomite or magnesium limestone for production of metallic magnesium, etc. 1,749,210; Mar. 4.

Dow, Herbert H., and E. O. Barstow, assignors to The Dow Chemical Company, Midland, Mich. Production of metallic magnesium, etc., from dolomite or magnesian limestone. 1,749,211; Mar. 4.

Draper Corporation. (See Benson, Arthur E., assignor.)

Draper Corporation. (See Davis, Harry A., assignor.)

Drath, Raimund, Grunau, Berlin, Germany. Fluid-actuated valve. 1,749,695; Mar. 4.

Drenning, Percy R. (See Symington, T. H., and Drenning.)

Drew, Howard S., Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for coating cores. 1,748,947; Mar. 4.

Dudgeon, Richard, Inc. (See Mathers, William H., assignor.)

Duisberg, Walter, Leverkusen, near Cologne, and W. Hentrich and L. Zeh, Wiesdorf, near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyestuffs which are alanines of the anthraquinone series and their derivatives. 1,749,242; Mar. 4.

Duke, John C., Washington, D. C. Display device. 1,749,696; Mar. 4.

Du Pont, E. I., de Nemours & Company. (See Daudt, Herbert W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Engelmann, Max, assignor.)

Dura Company, The. (See Graff, George, assignor.)

Duro Company, The. (See Eisenhauer, Charles P., assignor.)

Duro Metal Products Company. (See Peterson, E. H., and Odlum, assignors.)

Eames Company. (See Nielsen, Hans P., assignor.)

Earhart, Albert C., Cleveland Heights, Ohio. Doorcheck. 1,749,573; Mar. 4.

Earnshaw, William B., Dayton, Ohio, and R. N. Janeway, assignors to General Motors Research Corporation, Detroit, Mich. Combustion chamber. 1,749,327; Mar. 4.

Eastman Kodak Company. (See Frederick, Charles W., assignor.)

Eaton Axle and Spring Company, The. (See Reid, James S., assignor.)

Edison Electric Appliance Company. (See Boggs, Clarence E., assignor.)

Edison Electric Appliance Company. (See Randolph, C. P., and McCormick, assignors.)

Edmonds, John T., Fort Stockton, Tex. Shallow-water boat. 1,749,276; Mar. 4.

Edwards, Junius D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Balloon envelope. 1,749,474; Mar. 4.

Edwards, William H., Flushing, N. Y., assignor to American Telephone and Telegraph Company. Meter. 1,749,023; Mar. 4.

Egan, Edgar, Meadow Grove, Nebr. Incubator. 1,741,697; Mar. 4.

Eglinton, William L., Glendale, Calif. Road-map-exhibiting apparatus for motor vehicles. 1,749,243; Mar. 4.

Ehrenfeld, Ralph, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Lubricating device. 1,749,574; Mar. 4.

Ehret, Conrad, Oklahoma City, Okla. Glare shield. 1,749,181; Mar. 4.

Einstein, Sol, and A. Turner, assignors, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Dead-center grinder. 1,749,328; Mar. 4.

Eisele, Martin, Graymont, Ill. Pneumatic feeding device for thrashers. 1,749,475; Mar. 4.

Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water softener. 1,749,422; Mar. 4.

Electric Service Supplies Company. (See Graham, Herbert J., assignor.)

Electro Company. (See Moxham, Arthur J., assignor.)

Electro-Motive Company, The. (See Dilworth, R. M., and Niece, assignors.)

Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)

Elliott, Thomas, Birmingham, Ala., assignor to Continental Gin Company. Pump. 1,749,212; Mar. 4.

Ellis, Howard G., Waltham, assignor, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Lasting jack. 1,748,977; Mar. 4.

Ellis Importing Company. (See Ellis, John, assignor.)

Ellis, John, Philadelphia, Pa., assignor to Ellis Importing Store front. Des. 80,608; Mar. 4.

Elsasser, William. (See Albright, F., and Elsasser.)

Elsey, George W. (See Chryst, W. A., and Elsey.)

Emmert, Rodger J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Grinding apparatus. 1,749,329; Mar. 4.

Empire Railway Supply Corporation. (See Barili, A. E. H., and Hyle, assignors.)

Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Disinfecting seeds and composition therefor. 1,749,575; Mar. 4.

Engh, Erik K., Minneapolis, Minn. No-baste clamp. 1,749,330; Mar. 4.

Erickson, Albin J., Chicago, Ill. Airplane. 1,749,132; Mar. 4.

Ericsson, Carl O. (See Christiansen, Ejnar, assignor.)

Esselsen, Gustavus J., jr. (See Brown, C. A., and Esselen.)

Esseltine, Alfred B., assignor to Goodman Manufacturing Company, Chicago, Ill. Electric-circuit safety lock. 1,749,070; Mar. 4.

Esterow, Harry, New York, N. Y. Pen and pencil clip. Des. 80,609; Mar. 4.

Eubanks, Adah M., Charleston, Wash. Shipping coop. 1,749,377; Mar. 4.

Eulenhöfer, Adolf. (See Scheppmann, W., and Eulenhöfer.)

Evanowff, Mike. (See Yerga, A. A., and Evanowff.)

Evans, Ernest E., Riverside, Calif. Automatic box-stamping machine. 1,749,698; Mar. 4.

Evans, Richard J., Huntington, Ind. Brake lining. 1,749,631; Mar. 4.

Evans, William L., Washington, Ind. Garment rack. 1,749,576; Mar. 4.

Everlasting Valve Company. (See Wilson, Wylie G., assignor.)

Faben, Charles R. (See Jennison, H. G., and Faben.)

Fabricord, Inc. (See Lowry, George A., assignor.)

Fairbanks, E. and T., and Company. (See Guldbrandsen, Guldbrand, assignor.)

Fairbanks, E. and T., and Company. (See Hadley, Harlan A., assignor.)

Fairey, Charles R. (See Macpherson, Martyn C., assignor.)

Fansteel Products Company. (See Austin, M. M., and Warner, assignors.)

Farnsworth, Kenneth C., Athens, Ohio. Radiant gas heater. Des. 80,610; Mar. 4.

Farnsworth, Kenneth C., Athens, Ohio. Radiant gas heater. Des. 80,611; Mar. 4.

Federal Telegraph Company. (See Kolster, Frederick A., assignor.)

Feeney, John D., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-handling apparatus for processing machines. 1,748,978; Mar. 4.

Feeney, Thomas L., and H. Godoy, assignors, by mesne assignments, to Sentry Safety Control Corporation, Philadelphia, Pa. Fire-preventing means for motion-picture-projecting machines. 1,749,577; Mar. 4.

Feigel, William A., assignor to Union Special Machine Company, Chicago, Ill. Presser-foot mechanism for sewing machines. 1,749,529; Mar. 4.

Fennel, William E., jr., Moberly, Mo. Piston pin. 1,749,024; Mar. 4.

Fennessy, James H., Dayton, Ohio. Window. 1,749,666; Mar. 4.

Fenton, Almon N., Collingswood, N. J., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Electric valve. 1,749,423; Mar. 4.

Ferris, Henry C., Garden City, N. Y. Orthodontic dumbbell. 1,749,632; Mar. 4.

Fessler, Marcus J., Syracuse, N. Y. Treating commercial gasoline for internal-combustion engines to remove and prevent the formation of carbon. 1,749,244; Mar. 4.

Feubel, Albert, Krefeld, Germany. Weighting of silk. 1,749,699; Mar. 4.

Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Polar neutral relay. 1,749,331; Mar. 4.

Figueras, Pedro C., Habana, Cuba. Plow. 1,749,277; Mar. 4.

Filer & Stowell Co., The. (See Pelton, George M., assignor.)

Fillmore, Charles G., Waltham, Mass. Rod-bending tool. 1,749,476; Mar. 4.

Finkel, William A., Washington, D. C. Sleeve form. 1,749,032; Mar. 4.

Finn, Alfred J., Bloomfield, N. J., and P. L. Myer, Ozone Park, assignors to The Western Union Telegraph Company, New York, N. Y. Automatic stroke-corrector circuit. 1,749,738; Mar. 4.

Firsching, Joseph A., Utica, N. Y. Knitted fabric and producing the same. 1,749,245; Mar. 4.

Fisher, Charley W., Coffeyville, Kans., assignor to Robinson Packer Company, Tulsa, Okla. Bottom-hole packer. 1,749,033; Mar. 4.

Flam, Stephen, Walnut Park, Calif., assignor to Supertile Machinery Corporation, Los Angeles, Calif. Process and apparatus for molding. 1,749,218; Mar. 4.

Flowers, Henry F., Findlay, Ohio. Yielding door mechanism. 1,749,530; Mar. 4.

Fluharty, William G., Rockville Center, assignor to The Western Union Telegraph Company, New York, N. Y. Carrier-wave telegraphic transmission system. 1,749,739; Mar. 4.

Folding Product Corporation. (See Nordell, Carl H., assignor.)

Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Debit and credit posting machine. 1,749,477; Mar. 4.

Forberg, Albert, assignor to The Lapointe Machine Tool Company, Hudson, Mass. Machine for broaching spirals. 1,749,633; Mar. 4.

Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Transmission. 1,749,099; Mar. 4.

Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Opposed-piston engine. 1,749,578; Mar. 4.

Ford Motor Company. (See Ford, Henry, assignor.)

Forster Manufacturing Company. (See Schuchman, Bertram F., assignor.)

Fourment, Marcel, Paris, France. Apparatus for the continuous treatment of metal bodies. 1,749,700; Mar. 4.

Fox, Vernie A., assignor to Young Brothers Company, Detroit, Mich. Agitator dip tank. 1,749,182; Mar. 4.

Francis, Jacob R., Flint, Mich. Charge-heating control for internal-combustion engines. 1,749,246; Mar. 4.

Frank, Edgar K., New York, N. Y. Necktie-lining fabric. 1,749,634; Mar. 4.

Frankart, Inc. (See von Frankenberg, Arthur, assignor.)

Franklin Simon & Company. (See Long, Dorothy, assignor.)

Franzen, Nicklas, Long Beach, Calif., assignor to Mississippi Glass Company. Apparatus for forming sheet glass. 1,749,332; Mar. 4.

Frederick, Charles W., assignor to Eastman Kodak Company, Rochester, N. Y. Optical system for use in photographic color processes. 1,749,278; Mar. 4.

Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Insulated conductor. 1,749,740; Mar. 4.

Freedlein, David, New York, N. Y. Hat iron and steamer. 1,749,667; Mar. 4.

Frey, Karl. (See de Freudenreich, J., and Frey.)

Freyn Engineering Company. (See Rice, Owen R., assignor.)

Frickey, Royal E., San Francisco, and A. S. Kalenborn, Redwood City, Calif. Arc welding system. 1,749,133; Mar. 4.

Fridolph, Annette, assignor to A. B. A. Specialties Company, Inc., New York, N. Y. Sanitary waist garment. 1,749,333; Mar. 4.

Frostad, George O., and J. E. Annen, assignors to The National Paper Can Company, Milwaukee, Wis. Can-making machine. 1,749,279; Mar. 4.

Fuller Brush Company, The. (See Cave, Henry, assignor.)

Fuller Brush Company, The. (See Cave, H., and Smith, assignors.)

Fuller Brush Company, The. (See Thacher, John J., assignor.)

Gadbois, Joseph E., Springfield, Mass. Cloth spreading and piling machine. 1,749,214; Mar. 4.

Galati, Emil, Chicago, Ill. Pieced-cloth formation. 1,749,025; Mar. 4.

Galey, Albert, Seelyville, Ind. Switch throw or keeper. 1,749,478; Mar. 4.

Gassen, Josef, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany. Ingot-pushing device. 1,748,948; Mar. 4.

Gay, Frazer W., Newark, N. J. Propelling ships. 1,749,071; Mar. 4.

Gear Grinding Company Limited, The. (See Orcutt, A. H., and Snarry, assignors.)

Geiger, William F., Jersey City, N. J., assignor to Cunningham Products Corporation, New York, N. Y. Pocket atomiser. Des. 80,665; Mar. 4.

Geloso, John, New York, assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y. Knob for radiodials. Des. 80,612; Mar. 4.

General Aniline Works, Inc. (See Duisberg, W., Hentrich, and Zeh, assignors.)

General Aniline Works, Inc. (See Neresheimer, H., and Schneider, assignors.)

General Aniline Works, Inc. (See Schmidt, Karl, assignor.)

General Aniline Works, Inc. (See Schweitzer, Hugo, assignor.)
General Aniline Works, Inc. (See Schweitzer, H., and Neelmeier, assignors.)
General Aniline Works, Inc. (See Trautner, W., Stein, and Berliner, assignors.)
General Aniline Works, Inc. (See Wagner, Hermann, assignor.)
General Aniline Works, Inc. (See Zeh, Ludwig, assignor.)
General Drying Engineering Corporation. (See Strong, William M., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Pestarini, Joseph M., assignor.)
General Electric Company. (See Reiter, C., and Stäger, assignor.)
General Electric Company. (See Voorhoeve, Nicolaas A. J., assignor.)
General Electric Company. (See Wood, Alexander P., assignor.)
General Electric Company. (See Wright, Daniel K., assignor.)
General Motors Corporation. (See Beringer, Roscoe, assignor.)
General Motors Corporation. (See Russell, Bert, assignor.)
General Motors Corporation. (See Schmidt, Frank W., assignor.)
General Motors Research Corporation. (See Dirkes, V. M., and Terna, assignors.)
General Motors Research Corporation. (See Earnshaw, W. B., and Janeway, assignors.)
General Motors Research Corporation. (See Hunt, John H., assignor.)
General Railway Signal Company. (See Field, Oscar S., assignor.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
Gentile, Marino, assignor of one-half to S. W. Weis and one-fourth to G. Pick, Chicago, Ill. Transparent sheet. 1,748,949; Mar. 4.
Gentilini, Augusto, assignor to Società Anonima Radio, Rome, Italy. Cinematographic machine. 1,749,026; Mar. 4.
Georg, Otto, Duesseldorf, Germany. Forging machine and the like. 1,749,334; Mar. 4.
George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Base for cranes and the like. 1,749,183; Mar. 4.
Gerlach, Erwin, Berlin-Siemensstadt, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Diaphragm for electroacoustic apparatus. 1,749,635; Mar. 4.
Gesteteer, D., Limited. (See de Waele, Armand, assignor.)
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Nonmetallic shackle for cantilever-spring suspensions. 1,749,335; Mar. 4.
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Refrigerator door of molded asphalt composition. 1,749,336; Mar. 4.
Geyer, Harvey D., assignor to The Inland Manufacturing Corporation, Dayton, Ohio. Water-cooler cabinet. 1,749,337; Mar. 4.
Gibbons, Richard, assignor to M. A. Kenney, Brooklyn, N. Y. Wind screen for airplane platforms. 1,749,338; Mar. 4.
Gilberg, Harry W., et al. (See Lieske, Frank J., assignor.)
Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)
Gilbert, Edward L., Fort Bayard, N. Mex. Single-sleeve-valve engine. 1,749,701; Mar. 4.
Giles, Harvey, Brooklyn, N. Y., assignor to Artemas Ward Inc. Vending machine. 1,749,579; Mar. 4.
Gilmer, L. H., Co. (See Snyder, Edgar W., assignor.)
Gisholt Machine Company. (See McNutt, Edward F., assignor.)
Glitzke, Gregor H., Kansas City, Mo. Sealing means for perforated container caps. 1,749,215; Mar. 4.
Goad, Louis C., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Shaft-centering support. 1,749,339; Mar. 4.
Godoy, Humbert. (See Feeney, T. L., and Godoy.)
Goertz, August, & Co. (See Wacker, William E., assignor.)
Goldberg, Benjamin D., Brooklyn, N. Y. Carding brush. 1,748,950; Mar. 4.
Goldman, David H., Cleveland, Ohio. Double-acting pump. 1,749,216; Mar. 4.
Goldsborough, Shirley L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,749,531; Mar. 4.
Goldsborough, Shirley L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,749,532; Mar. 4.
Goldsmith, Fred C., Houston, Tex. Attachment for motor vehicles. 1,749,027; Mar. 4.
Goodman Manufacturing Company. (See Doberstein, Edward J., assignor.)
Goodman Manufacturing Company. (See Esselline, Alfred B., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodwin, Ralph T., Elizabeth, N. J., assignor to Standard Oil Development Company. Briquette. 1,749,378; Mar. 4.
Goodyear Tire & Rubber Company, The. (See Sebrell, Lorin B., assignor.)
Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inserting fasteners. 1,748,951; Mar. 4.
Gookin, Sylvester L., Atlantic, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Eyelet. 1,748,952; Mar. 4.
Gordon, Gerald D., Marion, Iowa. Motor heating and cooling system. 1,749,424; Mar. 4.
Goucher, Elma E., and R. B. Cummings, McMinnville, Oreg. Electrical swivel. 1,749,702; Mar. 4.
Goudy, Carl F., Flushing, assignor to Pacent Radio Corporation, New York, N. Y. Electric phonograph. 1,749,072; Mar. 4.
Grneber, Rudolph, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Flat-knitting frame. 1,749,479; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Clock case. Des. 80,613; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Clock case. Des. 80,614; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Clock case. Des. 80,615; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Clock case. Des. 80,616; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Hinge assembly for refrigerators or the like. Des. 80,617; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Hinge assembly for refrigerators or the like. Des. 80,618; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Latch assembly for refrigerators or the like. Des. 80,619; Mar. 4.
Graff, George, assignor to The Dura Company, Toledo, Ohio. Latch assembly for refrigerators or the like. Des. 80,620; Mar. 4.
Graham, Herbert J., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lubricating system. 1,749,247; Mar. 4.
Graves, Benjamin P., Edgewood, assignor to Brown & Sharpe Manufacturing Company, Providence, R. I. Interlocking manual and power-feed control. 1,749,073; Mar. 4.
Graves, Kenneth A., Fargo, R. C. Graves, Doyon, and H. Juneau, Grand Forks, N. Dak. Automatic stopping and starting device for gasoline engines. 1,749,668; Mar. 4.
Graves, Robert C. (See Graves, Kenneth A., and R. C., and Juneau.)
Graveure, Louis, New York, N. Y. Lock. 1,749,533; Mar. 4.
Grean, Alexandre M., New York, N. Y. Head covering or turban. 1,749,340; Mar. 4.
Green, Leslie P., Chicago, assignor, by mesne assignments, to I. J. Wilson, Winneta, Ill. Scraper. 1,749,741; Mar. 4.
Green, M. E., Manufacturing Co. (See Scott, Charlie B., assignor.)
Greve, Louis W., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Valveless rock drill. 1,748,953; Mar. 4.
Griswold, Roger W., Ashtabula, Ohio. Mushroom pit. 1,749,134; Mar. 4.
Groehn, Otto J. (See Hansen, R. E., and Groehn.)
Groenewold, Dick H., Loyal, Okla. Adjusting bolt. 1,749,341; Mar. 4.
Grönberg, Otto A., Oslo, Norway. Hanger for air cables. 1,749,669; Mar. 4.
Gross, Benjamin & Edward J., Co. (See Gross, Edward J., assignor.)
Gross, Edward J., New Rochelle, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 80,621; Mar. 4.
Gross, Edward J., New Rochelle, assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 80,622; Mar. 4.
Guldbrandsen, Guldbrand, Louisville, Ky., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Laundry-bag scale. 1,749,746; Mar. 4.
Gummo, Elmer P., Monument, Pa. Tying device. 1,749,280; Mar. 4.
Gunderson, Gilbert, Fergus Falls, Minn. Air compressor. 1,748,979; Mar. 4.
Gyro Process Company. (See Wagner, Cary R., assignor.)
Hadley, Harlan A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Automatic scale. 1,749,747; Mar. 4.
Hagener, Arthur. (See Wood, J. C., Hagener, and Wagner.)
Haglund, Hakon H., Flushing, assignor to The Western Union Telegraph Company, New York, N. Y. Multiplex telegraph system. 1,749,735; Mar. 4.
Haller, Arnold, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Insulator construction. 1,749,534; Mar. 4.
Hamblen, Alva O., Flint, Mich. Fishing tool. 1,748,930; Mar. 4.
Hambleton, Edwin, Kenmore, assignor to The Transmission Ball Bearing Company Inc., Buffalo, N. Y. Rolling bearing. 1,749,281; Mar. 4.

Hamilton, Charles E., assignor to Automotive Gear Works, Inc., Richmond, Ind. Gear-tooth-chamfering machine. 1,749,580; Mar. 4.
Hansen, Russell E., Detroit, and O. J. Groehn, Grosse Pointe Park, assignors to Hudson Motor Car Company, Detroit, Mich. Apparatus for forming flanged openings in sheet-metal panels and the like. 1,749,184; Mar. 4.
Harnett, Lewis D. (See Davis, H. C., and Harnett.)
Harris, Hugh W., Chicago, Ill. Combined electric fan and beater. 1,749,282; Mar. 4.
Harris, Marcus R., Detroit, Mich. Closure operator. 1,749,425; Mar. 4.
Harris, William A., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Roofing and forming the same. 1,748,981; Mar. 4.
Hart, George H., West Hartford, Conn. Switch mechanism. 1,749,283; Mar. 4.
Hart, Simeon T., Syracuse, N. Y., assignor to The Prosperity Company, Inc. Pressing machine. Re17,619; Mar. 4.
Harter, Charles, University City, Mo. Pipe clamp. 1,749,135; Mar. 4.
Hartman, Albert F., Saginaw, Mich. Signaling device. Des. 80,623; Mar. 4.
Harts, Barge L., Elyria, Ohio. System for holding milk. 1,749,535; Mar. 4.
Hassler Manufacturing Co. (See Weber, Henry E., assignor.)
Haugen, Hans, Fargo, N. Dak. Collapsible boat. 1,749,703; Mar. 4.
Hauser, George D., assignor to Utica Products, Inc., Utica, N. Y. Container. 1,749,581; Mar. 4.
Havel, Frank, Chicago, Ill., assignor to S. Karpen & Brothers. Chair or similar article. Des. 80,624; Mar. 4.
Hayduk, Stanley. (See Widuch, A., Hayduk, and Silwa.)
Hayes, Harvey C., Washington, D. C. Apparatus for transforming sound into electrical energy. 1,749,284; Mar. 4.
Hayes, Harvey C., Washington, D. C. Apparatus for transforming sound into electrical energy. 1,749,285; Mar. 4.
Hazen, Morris, Cincinnati, Ohio. Method and machine for forming, bending, and cutting off metal strips. 1,749,342; Mar. 4.
Heany, John A., New Haven, Conn., assignor to Sirian Lamp Company, Newark, N. J. Incandescent electric lamp. 1,749,136; Mar. 4.
Heelan, Thomas, North Tonawanda, assignor to Remington Rand Inc., New York, N. Y. Filing cabinet. 1,749,217; Mar. 4.
Heiberg, Per, Nogales, Ariz. Combination bath towel. 1,749,100; Mar. 4.
Heinisch, Joseph F. R., Topeka, Kans. Lamp. 1,749,426; Mar. 4.
Helios Corporation. (See Proksa, John, assignor.)
Heltzel, Joseph W., Warren, Ohio. Combination concrete-mixer turntable and subgrader. 1,749,101; Mar. 4.
Hemphill Company. (See Landry, Aldel, assignor.)
Hendershot, John S. M., Boonton, N. J. High-tension-current conductor and spark intensifier. 1,749,480; Mar. 4.
Hennessy, James J., New York, N. Y. Automatic drain. 1,748,982; Mar. 4.
Hentrich, Winfrid. (See Duisberg, W., Hentrich, and Zeh.)
Hercules Powder Company. (See Johnston, Alan C., assignor.)
Herrmann, Isaac, Elyria, Ohio, assignor to The Undertakers' Supply Co., Chicago, Ill. Headrest. 1,748,954; Mar. 4.
Hersh, Earl F., McAllen, Tex. Cooling or refrigerating structure. 1,749,343; Mar. 4.
Hicks, Thomas N., Perth, Ontario, Canada, assignor of one-half to E. C. White, New York, N. Y. Back wind mechanism for clocks. 1,749,185; Mar. 4.
Higgin Manufacturing Company, The. (See Traut, Clifford, assignor.)
Highway Trailer Company. (See Davis, D. H., and Williams, assignors.)
Highway Trailer Company. (See Williams, Leroy E., assignor.)
Hild, Frederic W., Los Angeles, Calif. Disk bit. 1,749,344; Mar. 4.
Hill, John F., Clatskanie, Oreg. Harrow. 1,749,074; Mar. 4.
Hill, Roscoe, Clifford, Ind. Nonfreezing device for automobiles. 1,749,286; Mar. 4.
Hills Brothers Company, The. (See Ostricher, Edwin D., assignor.)
Hinckley & Schmitt. (See Schmitt, Victor T., assignor.)
Hinderer, Eugen, Hamborn, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Separating adhering rolled metal sheets. 1,749,075; Mar. 4.
Hinderliter, Frank J., Tulsa, Okla. Trip-latch jack. 1,749,379; Mar. 4.
Hinderliter, Frank J., Tulsa, Okla. Bailer spear. 1,749,380; Mar. 4.
Hoe, R., & Co. (See Reynolds, Howard, assignor.)
Hoe, R., & Co. Inc. (See Morris, Edward T., assignor.)
Hoffman, Charles, Tuckahoe, and T. R. Schweitzer, Ozone Park, assignor to Ward Baking Company, New York, N. Y. Treating butter. 1,749,427; Mar. 4.
Hofstetter, Robert, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Control instrument. 1,748,983; Mar. 4.
Hofstetter, Robert, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling members. 1,749,076; Mar. 4.
Hogan, Jay J., Erie, Pa., assignor to The Bryant Electric Company, Bridgeport, Conn. Switch. 1,749,536; Mar. 4.
Hogan, Michael J., Chicago, Ill. Interchangeable-character-locking-device. 1,748,984; Mar. 4.
Hoke, William E., Baltimore, Md. Method of and apparatus for making gears. 1,749,670; Mar. 4.
Hoke, William E., Baltimore, Md. Apparatus for finishing gears. 1,749,704; Mar. 4.
Holmes, Earl K., assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Forming hollow articles. 1,749,428; Mar. 4.
Hood Rubber Company. (See Ellis, Howard G., assignor.)
Hoover Company, The. (See Hoover, Howard E., assignor.)
Hoover, Howard E., Glencoe, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio. Suction cleaner. Re17,615; Mar. 4.
Hopkins, Nevil M., New York, assignor of twenty-five per cent to Tobacco Perfecting Corporation, and 12 per cent to R. G. Le Brosi, Port Washington, N. Y. Improving cigarettes, cigars and pipe cartridges. 1,749,582; Mar. 4.
Hopkinson, Ernest, New York, N. Y. Manufacturing of tire castings. Re17,618; Mar. 4.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Indicating system. 1,749,429; Mar. 4.
Houlis, Louis D., Dallas, Tex. Oil burner. 1,749,248; Mar. 4.
Howell, Benjamin R., et al. executors. (See Howell, Robert R.)
Howell, John R., et al. executors. (See Howell, Robert R.)
Howell, Robert R., deceased, by B. R. Howell and M. Stokes, Minneapolis, Minn., and J. R. Howell, Madison, Wis., executors. Grain-spout holder. 1,749,583; Mar. 4.
Hudson Motor Car Company. (See Hansen, R. E., and Groehn, assignors.)
Hudson, Robert F., Richmond, Va., assignor, by mesne assignments, to Automatic Guns, Inc., Washington, D. C. Machine gun. 1,749,137; Mar. 4.
Hudspith, Joseph G., assignor of one-half to N. S. Lewin, San Luis Obispo, Calif. Abrading device. 1,749,705; Mar. 4.
Huebsch, Joseph, Milwaukee, Wis., assignor to Huebsch Mfg. Co. Conveyer carriage. 1,749,381; Mar. 4.
Huebsch Mfg. Co. (See Huebsch, Joseph, assignor.)
Hulson Grate Company. See Hulson, John W., assignor.)
Hulson, John W., assignor to Hulson Grate Company, Incorporated, Keokuk, Iowa. Smoke consumer. 1,749,028; Mar. 4.
Humphrey, Irl W., Terre Haute, Ind. Automatic thermostatic auto-fuel mixer. 1,749,034; Mar. 4.
Hunicke, Raymond S., Elizabeth, N. J., assignor to The Barrett Company, New York, N. Y. Liquid-delivery device. 1,748,985; Mar. 4.
Hunt, John H., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Crank-case ventilation. 1,749,345; Mar. 4.
Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Tentering machine. 1,749,584; Mar. 4.
Huth, Dr. Erich F., Ges. m. b. H. (See Messtorff, Gerhard, assignor.)
Huth, Dr. Erich F., Ges. m. b. H. (See Trautwein, Friedrich, assignor.)
Hyle, Jacob A. (See Barili, A. E. H., and Hyle.)
Inco, Francis S., Los Angeles, Calif. Automatically-stabilized folding bed. 1,749,382; Mar. 4.
Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
Ingersoll-Rand Company. (See Neafie, Andrew J., assignor.)
Ingleton, James W., Astoria, Oreg. Vaporizer for hydrocarbon engines. 1,749,029; Mar. 4.
Ingleton, James W., Astoria, Oreg. Explosive-fuel-mixture generator for hydrocarbon engines. 1,749,030; Mar. 4.
Ingleton, James W., Astoria, Oreg. Device for gasifying heavy oils. 1,749,031; Mar. 4.
Ingleton, James W., Astoria, Oreg. Vaporizer for internal-combustion engines. 1,749,035; Mar. 4.
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
Instant Freezer Corporation, The. (See Styberg, Ernest C., assignor.)
International Shoe Company. (See McCarthy, Robert F., assignor.)
Interwoven Mills, Inc., The. (See Diffenderfer, Charles W., assignor.)
Irwin, David N., Detroit, Mich. Awning raising and lowering device. 1,749,218; Mar. 4.
Isbell, John A., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Drive for unit presses and folders. 1,749,346; Mar. 4.
Iversen, Lorenz, Pittsburgh, Pa. Rotary shears. 1,749,430; Mar. 4.
Jackson, Frederick W., Needles, Calif. Plug retainer. 1,749,287; Mar. 4.
Jackson, Robert M., Lake Creek, Tex. Attachment for seed planters. 1,749,250; Mar. 4.
Jaeger, Max, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Multiple-head sealing machine. 1,749,347; Mar. 4.
Jaite Company, The. (See Wechsler, Samuel, assignor.)
Jalowzer, Benzion. (See Stiasny, E. G., and Jalowzer.)
Janeway, Robert N. (See Earnshaw, W. B., and Janeway.)

Janssen, Webster E., New York, N. Y. Musical-instrument case. 1,749,585; Mar. 4.
Jeffrey Manufacturing Company, The. (See McQuail, James A., assignor.)
Jennison, Harry G., and C. R. Faben, Toledo, Ohio; said Faben assignor to said Jennison. Coking. 1,749,138; Mar. 4.
Jensen, Arthur P., Marvin, S. Dak. Snowplow. 1,749,481; Mar. 4.
Johnson, Josiah F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil-sealing ring for turbine bearings. 1,749,586; Mar. 4.
Johnson, Lane, Ingram, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Roll table. 1,749,431; Mar. 4.
Johnson, Tomlinson F., jr., Atlanta, Ga. High-tension switch. 1,749,537; Mar. 4.
Johnston, Alan C., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing alkyl esters of abietic acid. 1,749,482; Mar. 4.
Johnston, Alan C., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing alkyl esters of abietic acid. 1,749,483; Mar. 4.
Jones, Floyd E., et al. (See Matthews, O. C., and Malcom, assignors.)
Jones, Leo D., and A. U. Ayres, assignors to The Sharples Specialty Company, Philadelphia, Pa. Clarifier bowl. 1,749,538; Mar. 4.
Jonsson, Augustinus E., Lidingo, Sweden. Straining device for vacuum drying apparatus. 1,748,955; Mar. 4.
Joslin, Pliny N., De Kalb, Ill. Roller skate. 1,749,139; Mar. 4.
Joslyn Manufacturing & Supply Co. (See Smalley, Burton M., assignor.)
Juneau, Anna K., administratrix. (See Juneau, C. G., and Marshall.)
Juneau, Charles G., deceased, by A. K. Juneau, Wauwatosa, Wis., administratrix, and W. C. Marshall, Milwaukee, Wis. Combined refrigerator and ice-cream cabinet. 1,749,484; Mar. 4.
Juneau, Henry. (See Graves, Kenneth A. and R. C., and Juneau.)
Jungersen, Thöger G., Lyngby, near Copenhagen, Denmark. Dumping-car body or car top. 1,749,587; Mar. 4.
Kalenborn, Arion S. (See Fricker, R. E., and Kalenborn.)
Kalgren, John E., assignor to The J. R. Clark Company, Minneapolis, Minn. Ironing board. 1,748,956; Mar. 4.
Karmazin, John, Detroit, Mich. Apparatus for forming radiators. 1,749,383; Mar. 4.
Karpen, S., & Brothers. (See Havel, Frank, assignor.)
Kasser Egg Process Company. (See Lindstrom, Andrew E., assignor.)
Kastead, Rose, Cressey, Mich. Drier. 1,749,485; Mar. 4.
Kearney & Trecker Corporation. (See Parsons, Fred A., assignor.)
Keiser, Oliver F., Barnesville, Pa. Antiskid cross member. 1,749,636; Mar. 4.
Keller, Robert, Ennetbaden, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Switch apparatus. 1,749,539; Mar. 4.
Kelly, Jess C., Cambridge, Ohio. Tray or similar article. Des. 80,625; Mar. 4.
Kelly, Timothy J., Passaic, N. J., assignor to Brighton Mills, Netted-cord-fabric bag. 1,749,734; Mar. 4.
Kendall, Walter H., New York, N. Y. Folding chair. 1,749,486; Mar. 4.
Kennedy, Frank W., assignor to De Laval Steam Turbine Company, Trenton, N. J. Oiling system for gears. 1,749,077; Mar. 4.
Kenney, Francis L. M., Los Angeles, Calif. Filter device. 1,749,730; Mar. 4.
Kenney, Mary A. (See Gibbons, Richard, assignor.)
Kewanee Boiler Company. (See Dickson, J. F., and Turner, assignors.)
Kiesel, William F., jr., Altoona, Pa. Smoke box and stack. 1,749,487; Mar. 4.
Killman, Thomas A., Nashville, Tenn. Motion-picture-projecting machine. 1,749,140; Mar. 4.
King, Francis, Los Angeles, Calif. Exercising apparatus. 1,749,488; Mar. 4.
King, James L., and R. L. Vancil, Darlington, Idaho; said King assignor to said Vancil. Sheep knife. 1,749,288; Mar. 4.
Kingston, Frank G., assignor to Builders' Patent Scaffolding Company, West Somerville, Mass. Splice for poles for scaffolding. 1,749,637; Mar. 4.
Kingston, Frank G., assignor to Builders' Patent Scaffolding Company, West Somerville, Mass. Leg for horses, etc. 1,749,706; Mar. 4.
Kirgan, John F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steam condenser. 1,749,141; Mar. 4.
Kist, Michael J., Johnstown, Pa. Gauge rod. 1,749,489; Mar. 4.
Kist, Michael J., Johnstown, Pa. Gauge rod. 1,749,490; Mar. 4.
Kitto, William H., Ferndale, Mich. Radioreceiver. 1,749,102; Mar. 4.
Kleinschmidt, Edward E., Long Island city, N. Y., assignor, by mesne assignments, to Teletype Corporation, Chicago, Ill. Selective system and apparatus. 1,749,142; Mar. 4.
Klemgard, Edwin N., Holly Oak, Del. Making lubricating grease. 1,749,251; Mar. 4.
Knight, Donald B., Brooklyn, N. Y. Refrigeration. 1,748,957; Mar. 4.
Kuy-Scheerer Corporation of America, The. (See Akers, Herbert S., assignor.)
Koch, William, Los Angeles, Calif. Automatic door control. 1,749,186; Mar. 4.
Kodama, Kazuo, Petersburg, Alaska. Telephone-receiver mounting. 1,749,289; Mar. 4.
Koerber, John C., South Orange, N. J. Truck for toy vehicles. 1,749,384; Mar. 4.
Kokay, Stephen, Chicago, Ill. Clamp. 1,749,491; Mar. 4.
Kolster, Frederick A., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Directional radio system. 1,749,848; Mar. 4.
Kolts, John H., Crafton, and E. A. Krah, jr., Pittsburgh, assignors to Pittsburg Water Heater Company, Pittsburgh, Pa. Gas burner. 1,749,385; Mar. 4.
Kopke, Ernst W., New York, N. Y., assignor to F. L. Allen, Montclair, N. J. Method of and apparatus for crystallization. 1,749,588; Mar. 4.
Koppers Company, The. (See Van Ackeren, Joseph, assignor.)
Kortick, John C., San Francisco, Calif. Fire-fighting tool. 1,749,103; Mar. 4.
Kovacs, Rudolph, Detroit, Mich. Urinal for automobiles and other vehicles. 1,749,104; Mar. 4.
Koverman, Fred R. (See Ries, R. E., and Koverman.)
Krah, Edward A., jr. (See Kolts, J. H., and Krah.)
Kramer, John G., assignor, by mesne assignments, to Car-Kra Corporation, Detroit, Mich. Vertically-slidable inwardly-swinging window. 1,749,589; Mar. 4.
Krarup, Marius C., New York, N. Y. Shock absorber. 1,749,590; Mar. 4.
Krieger, Elisabeth, San Diego, Calif. Nursing bottle. 1,749,432; Mar. 4.
Krieger, I. G. (See Stanton, Jordan D., assignor.)
Kuehne, Joseph N., Bellevue, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Extension device. 1,749,036; Mar. 4.
Kussa, Edward, and W. E. Long, Chicago, Ill., assignors to The W. E. Long Co. Baking pan and method of baking. 1,749,433; Mar. 4.
L. G. S. Devices Corporation. (See Burton, Ralph B., assignor.)
Lacke, William A., Chicago, Ill. Sheet-metal heating furnace. 1,749,143; Mar. 4.
Lafrance, David J., assignor to The Carter's Ink Company, Cambridge, Mass. Support for fountain-pen holders. 1,749,037; Mar. 4.
La Grant, John F., et al. (See Lieske, Frank J., assignor.)
Lambing, William C., McDonald, assignor of one-third to T. J. Britton, Cecil, Pa. Automatic fuel control for natural-gas engines. 1,749,492; Mar. 4.
Landry, Aldei, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company. Knitting machine. Re17,608; Mar. 4.
Lane, Alfred M., St. Louis, Mo. Metal window. 1,748,986; Mar. 4.
Lang, Charles R., Cathcart, Glasgow, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Steam-power plant with closed feed system. 1,749,707; Mar. 4.
Langdon, Jesse D., Los Angeles, Calif. Pump unit. 1,749,038; Mar. 4.
Langman, Arthur H., assignor to A. C. Leisenring, Denver, Colo. Gas saver and carbon remover. 1,749,078; Mar. 4.
Lapin, Samuel, Miami, Fla. Table receptacle holder. Des. 80,626; Mar. 4.
Lapointe Machine Tool Company, The. (See Forberg, Albert, assignor.)
Larsen, Arnold L. (See Colby, F. R., and Larsen.)
Lasky, Mervyn C., Hollywood, Calif. Semifixed dental bridge. 1,749,493; Mar. 4.
Lavery, Hugh. (See Beach, Ray G., assignor.)
Lavery, William, Bloomfield, N. J. Device to prevent retrograde movement. 1,749,688; Mar. 4.
Law, Ray B., and J. A. Clapper, Muscatine, Iowa. Spring compressor. 1,749,591; Mar. 4.
Leavell, John H., Los Angeles, Calif. Method of and apparatus for presenting theatrical impressions. 1,749,187; Mar. 4.
Le Blond, Edmond J., St. Paul, Minn. Transformer-supporting structure. 1,749,252; Mar. 4.
Le Brosi, Rene G., et al. (See Hopkins, Nevil M., assignor.)
Lee, Roger K., Detroit, Mich. Signaling device. 1,749,434; Mar. 4.
Leisenring, Arthur C. (See Langman, Arthur H., assignor.)
Lentz, Rea D., Los Angeles, Calif. Automatically-operating mechanism for elevating liquids. 1,749,144; Mar. 4.
Leprestre, Rene, New York, N. Y. Steaming iron. 1,749,639; Mar. 4.
Leventhal, Mitchell, Brooklyn, assignor to Sosy, Inc., New York, N. Y. Lock frame. Des. 80,627; Mar. 4.
Levy, Emil, Lima, Ohio. Bed davenport. 1,749,708; Mar. 4.
Lévy, Léo, Paris, France. Pouring spout. 1,749,253; Mar. 4.
Lewin, Nathan S. (See Hudspith, Joseph G., assignor.)
Lewis, Arthur J., Stratford, assignor to The Baird Machine Company, Bridgeport, Conn. Chain-making machine. 1,749,435; Mar. 4.

Lieske, Frank J., assignor of one-half to H. W. Gilberg and one-fourth to J. F. La Grant, Detroit, Mich. Valve for gas ranges. 1,749,290; Mar. 4.
Lilly, Eli, and Company. (See Stuart, Elmer H., assignor.)
Lincecum, Addison T., El Campo, Tex. Portable electric air heater. 1,749,089; Mar. 4.
Lindgren, Hans O., Appelviken, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator. 1,749,291; Mar. 4.
Lindstrom, Andrew E., assignor to Kasser Egg Process Company, San Francisco, Calif. Egg-preserving machine. 1,749,219; Mar. 4.
Lippert, Morris, New York, N. Y. Footwear and making the same. 1,749,254; Mar. 4.
Liquid Carbonic Corporation, The. (See Oslund, Charles H., assignor.)
Liquidometer Corporation, The. (See de Giers, Clarence. A., assignor.)
Little, Donald G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum-tube system. 1,749,592; Mar. 4.
Livermon, Carl R., Roxobel, N. C. Stripping-finger adjustment for thrashing machines. 1,749,040; Mar. 4.
Llorens, Louis M., Los Angeles, Calif., assignor to Automatic Word Counter, Inc. Typewriter word register. 1,749,079; Mar. 4.
Loeffler, Louis J., Stapleton, N. Y. Telephone. 1,749,593; Mar. 4.
Logan, Charles W., Kenmore, assignor to Markel Electric Products, Inc., Buffalo, N. Y. Electrical heating unit. 1,748,958; Mar. 4.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,658; Mar. 4.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,659; Mar. 4.
Long, W. E., Co., The. (See Kussa, E., and Long, assignor.)
Long, William E. (See Kussa, E., and Long.)
Lorenz, C., Aktiengesellschaft. (See Scheppmann, W., and Eulenhöfer, assignors.)
Loveland, Harold A., Honolulu, Hawaii. Sandpapering machine. 1,749,709; Mar. 4.
Lower, Nathan M., and E. A. Turner, Pittsburgh, Pa., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Locomotive stoker. 1,749,041; Mar. 4.
Lowry, George A., assignor to Fabricord, Inc., New York, N. Y. Machine for obtaining the fibers from fibrous plants. 1,749,540; Mar. 4.
Lucas, Jonathan, Savanah, Ga., assignor to Lucas Lamborn Loom Corporation, New York, N. Y. Automatic take-off motion for weaving machines. 1,749,349; Mar. 4.
Lucas-Lamborn Loom Corporation. (See Lucas, Jonathan, assignor.)
Luckey, George P., Dayton, Ohio. Sensitive altimeter. 1,749,494; Mar. 4.
Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Löscher, Hermann, assignor.)
Lull, Carey A. (See Clouse, Walter N., assignor)
Lundeen, Ernest F., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Electrode for electrolytic cells. 1,749,145; Mar. 4.
Löscher, Hermann, Munich, Germany, assignor to the firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Stereoscope. 1,749,220; Mar. 4.
Lutz, William E., Amarillo, Tex. Tool grinder. 1,749,105; Mar. 4.
Lux Clock Manufacturing Company. (See Lux, Paul, assignor.)
Lux, Paul, assignor to Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Combined casing for an alarm clock and dial therefor. Des. 80,628; Mar. 4.
Lyman, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,749,188; Mar. 4.
Lyons, Harry C., Mount Vernon, N. Y. Smoke separator. 1,749,594; Mar. 4.
Macdonell, Allan G., Philadelphia, Pa. Extractor basket. 1,749,292; Mar. 4.
Mack, Perry E., Milwaukee, Wis. Motor-driven lawn mower. 1,749,189; Mar. 4.
MacPherson, Martyn C., assignor to C. R. Fairey, Hayes, England. Braking of the undercarriage or landing wheels of aeroplanes and like aircraft. 1,749,495; Mar. 4.
Maddalena, Louis, New York, N. Y. Chicken-brooder stove. 1,749,710; Mar. 4.
Mahler, George T. (See Bunce, E. H., and Mahler.)
Maison, Edmund R., Mount Clemens, Mich. Guide for cables and the like. 1,749,146; Mar. 4.
Majer, Carl T., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Grille front for radiocabinets and loud-speakers. Des. 80,629; Mar. 4.
Maki, Julius, Chicago, Ill., assignor to The Whelco Engineering & Manufacturing Company. Adjustable catch keeper. 1,749,742; Mar. 4.
Malcom, Dolor F. (See Matthews, O. C., and Malcom.)
Manufacturing Improvement Corporation. (See Brown, C. A., and Esselen, assignors.)
Maranzino, Roscoe, Los Angeles, Calif. Ornamental radiator cap. 1,749,221; Mar. 4.
Marcus, Vera V., Los Angeles, Calif. Booth. Des. 80,630; Mar. 4.
Mark, Dora, Neponsit, Long Island, N. Y. Shade or curtain fastener. 1,749,595; Mar. 4.
Markel Electric Products, Inc. (See Logan, Charles W., assignor.)
Marr, Zacheus M., Fremont, Nebr. Compound for filling recesses in metal castings and the like. 1,749,541; Mar. 4.
Marsh, Walter H., Aspinwall, Pa., assignor to Pennsylvania Pump Company. Calibrating mechanism for positive stops for visible pumps. 1,749,106; Mar. 4.
Marshall, Albert E., Baltimore, Md., assignor to Corning Glass Works, Corning, N. Y. Variable condenser. 1,749,042; Mar. 4.
Marshall, James. (See Rawling, W., Marshall, and Rumford.)
Marshall, Walter C. (See Juneau, C. G., and Marshall.)
Marston, Caleb J., and P. W. Ordway, Loudon, N. H. Aeroplane wing rib. 1,749,293; Mar. 4.
Martin, Henry W., East Kirby, England. Lifting device to facilitate the removal of cigarettes or small articles of similar shape from packets and like containers. 1,749,386; Mar. 4.
Martin, Richard D., Fort Smith, Ark. Fence post. 1,749,640; Mar. 4.
Marx, Louis, New York, N. Y. Combined doll's cradle and sound-producing means. 1,749,081; Mar. 4.
Mason, Bernard H. (See Masters, Marion G., assignor.)
Masters, Marion G., Evansville, assignor of one-half to B. H. Mason, Vanderburg County, Ind. Valve mechanism for internal-combustion engines. 1,749,496; Mar. 4.
Mathers, William H., Hollis, assignor to Richard Dudgeon, Inc., New York, N. Y. Hydraulic filter press. 1,749,080; Mar. 4.
Matthews, Osie C., and D. F. Malcom; said Malcom assignor to F. E. Jones and P. P. Matthews, San Bernardino, Calif. Traffic signal. 1,749,387; Mar. 4.
Matthews, Pearl P., et al. (See Matthews, O. C., and Malcom, assignors.)
Maupin, Graves R., Moberly, Mo. Device for finishing cylindrical surfaces. 1,748,959; Mar. 4.
McArdle, Michael W., Chicago, Ill. Sole plate for laundry irons. 1,749,596; Mar. 4.
McArdle, Michael W., Chicago, Ill. Sole plate for laundry irons. 1,749,597; Mar. 4.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,749,082; Mar. 4.
McCarthy, Robert F., Webster Groves, assignor to International Shoe Company, St. Louis, Mo. Shoe. 1,749,034; Mar. 4.
McCormick, Francis H. (See Randolph, C. P., and McCormick.)
McDaniel, Betty, Dallas, Tex. Brassière. 1,749,294; Mar. 4.
McEwen, Samuel, assignor to Coal Oil Extractio Limited, Manufacturers, London, England. Apparatus for carbonizing or distilling materials. 1,749,641; Mar. 4.
McFall, Thurlow E., Sparta, Mich. Piston-ring casting. 1,749,147; Mar. 4.
McGhan, Elmer W., Salt Lake City, Utah. Closure lock. 1,749,255; Mar. 4.
McGinnis, Basil W. (See Cole, C. E., and McGinnis.)
McGlashan, Charles F., Truckee, Calif. Bird lure. 1,749,497; Mar. 4.
McGowan, Harold A., Mason City, Iowa. Crank-case implement. Re17,613; Mar. 4.
McGregor, Harold C., Detroit, Mich. Barricade support. 1,749,190; Mar. 4.
McGregor, James A., Cleveland, Ohio. Flanging sheet metal. 1,749,148; Mar. 4.
McNutt, Edward F., Youngstown, Ohio, assignor to Gisholt Machine Company, Madison, Wis. Lead-screw-controlling device for lathes. 1,749,598; Mar. 4.
McQuail, James A., Hiawatha, W. Va., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Coal-washing apparatus. 1,749,350; Mar. 4.
McQueen, Alexander, Eastwood, Australia. Boot or shoe. 1,749,351; Mar. 4.
Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Electric coupler system. 1,749,149; Mar. 4.
Mead, Laurence L., Carlinville, Ill. Internal-combustion engine. 1,749,542; Mar. 4.
Medalry, Charles M., Cleveland, Ohio. Truck. 1,749,107; Mar. 4.
Mehlig, Henry, Corvallis, Oreg. Cultivator. 1,749,731; Mar. 4.
Meier, Albert J., assignor, by mesne assignments, to Rockwood Corporation of America, St. Louis, Mo. Apparatus for making plaster board. 1,749,436; Mar. 4.
Mellor, Joseph W., Stoke-on-Trent, England. Manufacture of ceramic ware. 1,749,642; Mar. 4.
Merchants Trust Company, executor. (See O'Connor, Thomas.)
Merriam, Edmund S., Marietta, Ohio, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Heat-resisting cabinet. 1,749,222; Mar. 4.
Messick, Bert, Lansing, Mich. Aeroplane. 1,748,987; Mar. 4.
Messtorff, Gerhard, Spandau, near Berlin, assignor to the firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. Control systems for oscillation circuits. 1,749,296; Mar. 4.

Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Setting device for time fuses. 1,749,643; Mar. 4.

Meyer, Charles L., assignor to Concrete Engineering Company, Omaha, Nebr. Concrete form. 1,749,437; Mar. 4.

Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Pasteurizer. 1,749,150; Mar. 4.

Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)

Meyer, Hermann, Berlin, Germany. Raft or boat. 1,749,711; Mar. 4.

Meyerhans, August, Eunetbaden, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Transformer. 1,749,388; Mar. 4.

Michel, Gilbert, Bagneux, assignor to H. O. Berg, Paris, France. Autogenous welding of magnesium and its alloys. 1,749,712; Mar. 4.

Michel, Gilbert, Bagneux, France, assignor to H. O. Berg. Protection of readily-oxidizable metals. 1,749,713; Mar. 4.

Milburn, William R., Shorewood, assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Controller for electric motors. 1,749,380; Mar. 4.

Miles, Lester H., Los Angeles, Calif. Fluid-elevating apparatus. 1,749,151; Mar. 4.

Miller, Henry C., Waterford, N. Y. Centralizing mechanism for sewing machines. 1,749,644; Mar. 4.

Miller, William T., Bethlehem, Pa., assignor to Bethlehem Steel Company. Rolling metal. 1,749,671; Mar. 4.

Miller, Willoughby S., Reading, Pa. Damper. 1,749,498; Mar. 4.

Mills, Brighton. (See Kelly, Timothy J., assignor.)

Minshall, Robert J., assignor to Boeing Airplane Company, Seattle, Wash. Shock-absorbing landing hook. 1,749,438; Mar. 4.

Mississippi Glass Company. (See Franzen, Nicklas, assignor.)

Mitchell, Charles W., Nashville, Tenn. Lock-controlled ignition switch. 1,749,672; Mar. 4.

Modine, Arthur B., Racine, Wis. Air-heating apparatus. 1,749,499; Mar. 4.

Monarch Governor Co. (See Moyers, G. L., and Abraham, assignors.)

Moore, Raymond G., Bridgeport, and F. P. Sargent, Stratford, assignors to The Bassick Company, Bridgeport, Conn. Handle for automobile hood catch. Des. 80,663; Mar. 4.

Moore, Raymond G., Bridgeport, and F. P. Sargent, Stratford, assignors to The Bassick Company, Bridgeport, Conn. Handle for Automobile Hood Catch. Des. 80,664; Mar. 4.

Moore & White Company, The. (See White, Joseph, A., assignor.)

Morrill, Jesse J., administrator. (See Morrill, Milo.)

Morrill, Milo, deceased, Provo, Utah; J. J. Morrill, administrator. Airplane control mechanism. 1,749,256; Mar. 4.

Morris, Albert W., Drexel Hill, and S. P. Wetherill, jr., Haverford, assignors to Wetherill-Morris Engineering Company, Philadelphia, Pa. Apparatus for pouring liquids such as molten metal. 1,749,083; Mar. 4.

Morris, Edward T., London, England, assignor to R. Hoe & Co. Inc., New York, N. Y. Sheet-inserting mechanism for rotary multiple-web-printing machines. 1,748,988; Mar. 4.

Mortensen, Cornelius, Louisville, Ky. Pasteurizing apparatus. 1,749,257; Mar. 4.

Moss, Leroy H. (See Wanner, H. C., and Moss.)

Moto Meter Gauge & Equipment Corporation. (See Behnke, Cord H., assignor.)

Moto Meter Gauge & Equipment Corporation. (See Padesky, John R., assignor.)

Mott, George G., Pasadena, Calif. Window shade. 1,749,223; Mar. 4.

Moxham, Arthur J., Odessa, Del., assignor to Electro Company. Treating siliceous minerals. 1,748,989; Mar. 4.

Moyer, Andrew T., Philadelphia, Pa. Safety device for paper cutters. 1,749,296; Mar. 4.

Moyers, Glenn L., St. Clair Shores, and E. A. Abraham, assignors to Monarch Governor Co., Detroit, Mich. Governor for internal-combustion engines. 1,749,500; Mar. 4.

Müller, Friedrich, Vienna, Austria. Starting mechanism for internal-combustion engines. 1,749,152; Mar. 4.

Myer, Percy L. (See Finn, A. J., and Myer.)

Naffziger, E. J. (See Bellah, George R., assignor.)

Nagel, Charles, Los Angeles, Calif. Safety paper. Des. 80,631; Mar. 4.

National Aniline & Chemical Co. (See Wait, Justin F., assignor.)

National Paper Can Company, The. (See Frostad, G. O., and Annen, assignors.)

National Traffic Signal Company. (See Olafson, Alvin O., assignor.)

Naugatuck Chemical Company, The. (See Rose, R. P., and Cude, assignors.)

Neafie, Andrew J., Mountain Lakes, assignor to Ingersoll-Rand Company, Jersey City, N. J. Fastener-holding device. 1,749,439; Mar. 4.

Neas, Leo, Tomah, Wis. Starting device for tractor engines. 1,749,645; Mar. 4.

Neelmeier, Wilhelm. (See Schweitzer, H., and Neelmeier.)

Neiser, Joseph, London, Ohio. Screw. 1,749,043; Mar. 4.

Nelson, Leo, Brooklyn, N. Y. Buckle. Des. 80,660; Mar. 4.

Nelson, Nels T., Attleboro, assignor to J. F. Sturdy's Sons Co., Attleboro Falls, Mass. Clasp. 1,749,440; Mar. 4.

Neresheimer, Heinrich, and W. Schneider, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuffs. 1,749,501; Mar. 4.

Nester, Edward. (See Schneider, J. J., and Nester.)

New Jersey Zinc Company, The. (See Bunce, E. H., and Mahler, assignors.)

Newlon, James S., Picher, Okla. Cylinder head for gas engines. 1,749,646; Mar. 4.

New York Air Brake Company, The. (See Campbell, Charles A., assignor.)

Niece, Fred G. (See Dilworth, R. M., and Niece.)

Nielsen, Hans P., Alameda, assignor to Eames Company, San Francisco, Calif. Wheel structure. 1,749,502; Mar. 4.

Niles, Eliot W., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Meter. 1,749,044; Mar. 4.

Nilson, Everett C., Worcester, Mass., assignor of forty per cent to R. G. Nilson, San Francisco, Calif., and twenty per cent to N. Nilson, Worcester, Mass. Acoustic diaphragm. 1,748,990; Mar. 4.

Nilson, Nils, et al. (See Nilson, Everett C., assignor.)

Nilson, Ralph G., et al. (See Nilson, Everett C., assignor.)

Nineteen Hundred Corporation. (See Cole, C. E., and McGinnis, assignors.)

Nix, Lloyd S. (See Pale, Elias, assignor.)

Nordell, Carl H., assignor to Folding Products Corporation, Chicago, Ill. Foldable curtain. 1,749,191; Mar. 4.

Norman, Carl A., Columbus, Ohio. Process of and apparatus for testing belts. 1,749,297; Mar. 4.

North, Herman A., Bogota, N. J. Protective garment. 1,749,714; Mar. 4.

Northfield, Glenn H. (See Northfield, Luke W., W. A., and G. H.)

Northfield, Luke W., W. A., and G. H., Minneapolis, Minn. Scale-platform clearer. 1,749,599; Mar. 4.

Northfield, Wesley A. (See Northfield, Luke W., W. A., and G. H.)

Norton, George D. (See Pass, Fred, assignor.)

Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,749,352; Mar. 4.

Nyquist, Harry, Millburn, and K. W. Pfleger, Arlington, N. J., assignors to American Telephone and Telegraph Company. Signaling system. 1,749,045; Mar. 4.

O'Connor, Thomas, deceased, Minneapolis, Minn.; Merchants Trust Company executor. Self-preserving milk product. 1,749,153; Mar. 4.

Odlum, William H. (See Peterson, E. H., and Odlum.)

O'Hagen, Archibald M., and G. C. Berger, Fosston, Minn. Shutter for motion-picture projectors and cameras. 1,749,154; Mar. 4.

Ohio Brass Company, The. (See Cooke, Milton W., assignor.)

Ohio Brass Company, The. (See Mead, George A., assignor.)

Ohio Cultivator Company, The. (See Rollman, Bruce, assignor.)

Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield-cleaner mounting. 1,749,441; Mar. 4.

Olafson, Alvin O., assignor to National Traffic Signal Company, St. Paul, Minn. Traffic signal. 1,749,390; Mar. 4.

Olson, Carl G., assignor to Shakeproof Lock Washer Company, Chicago, Ill. Lock nut. 1,749,600; Mar. 4.

Orafelk, Maximillian J., Chicago, Ill. Ice skate. 1,749,298; Mar. 4.

Orcutt, Arthur H., and J. W. Snarry, assignors to The Gear Grinding Company Limited, Birmingham, England. Grinding machine and other machine tool. 1,749,258; Mar. 4.

Ordway, Perley W. (See Marston, C. J., and Ordway.)

Orndoff, Herbert W., assignor to The E. V. Benjamin Co., Inc., New Orleans, La. Gripping device. 1,749,601; Mar. 4.

Orr, Claude L., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Six-wheel-truck construction. 1,749,715; Mar. 4.

Osborn, George W., Cleveland, Ohio. Gauge light. 1,749,299; Mar. 4.

Osgood, Louis A., Dayton, and E. E. Wolf, Springfield, assignors, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Automatic recording scale. 1,749,192; Mar. 4.

Oslund, Charles H., Worcester, Mass., assignor to The Liquid Carbonic Corporation, Chicago, Ill. Label gripper for duplex labeling machines. 1,749,716; Mar. 4.

Oster, John, Racine, Wis. Hand hair clipper. 1,749,543; Mar. 4.

Ostricher, Edwin D., Woodbury, Ga., assignor to The Hills Brothers Company, New York, N. Y. Fruit holder. 1,749,224; Mar. 4.

Pacent Radio Corporation. (See Goudy, Carl F., assignor.)

Padesky, John R., La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Instrument panel board. 1,749,353; Mar. 4.

Pagano, Joseph, Memphis, Tenn. Exercising apparatus. 1,749,544; Mar. 4.

Paldar, Emil J., Company. (See Palk, Frank J., assignor.)

Palk, Frank J., Riverside, assignor, to Emil J. Paldar Company, Chicago, Ill. Cabinet or similar article. Des. 80,661; Mar. 4.

Pale, Elias, San Pedro, assignor of one-half to L. S. Nix, Los Angeles, Calif. Sanitary garbage and refuse remover. 1,749,503; Mar. 4.

Palmos, George, Sacramento, Calif. Flytrap. 1,749,717; Mar. 4.

Paramount Famous Lasky Corporation. (See Pomeroy, Roy J., assignor.)

Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Milling-machine organization. 1,749,225; Mar. 4.

Partlow, Howard W., Utica, N. Y. Automatic fire extinguisher. 1,749,155; Mar. 4.

Pass, Fred, Chicago, Ill., assignor of one-half to G. D. Norton, Toledo, Ohio. Knife sharpener. 1,749,442; Mar. 4.

Patent and Licensing Corporation, The. (See Harris, William A., assignor.)

Patterson, Herbert, Greenfield, assignor of one-half to E. M. Abercrombie, Deerfield, Mass. Bearing. 1,749,391; Mar. 4.

Peebles, Charles, Yonkers, N. Y. Safety control for gas stoves. 1,749,085; Mar. 4.

Peerless Car & Equipment Co. (See Beasley, Starley F., assignor.)

Pelton, Clifford L., Norristown, Pa. Aerial distribution of materials. 1,749,504; Mar. 4.

Pelton, George M., assignor to The Filer & Stowell Co., Milwaukee, Wis. Sawmill-dogging means. 1,749,108; Mar. 4.

Pelton, George M., assignor to The Filer & Stowell Co., Milwaukee, Wis. Sawmill carriage. 1,749,109; Mar. 4.

Pelton, George M., assignor to The Filer & Stowell Co., Milwaukee, Wis. Sawmill carriage. 1,749,110; Mar. 4.

Penn, Albert, assignor to Penn Electric Switch Co., Des Moines, Iowa. Temperature-control-switch structure. 1,749,302; Mar. 4.

Penn Electric Switch Co. (See Penn, Albert, assignor.)

Pennsylvania Pump Company. (See Marsh, Walter H., assignor.)

Perfection Ice Scoring Machine Company, The. (See Roark, Robert H., assignor.)

Perkins, B. F., & Son, Inc. (See Senna, Samuel N., assignor.)

Perugia, André, Paris, France. Shoe. Des. 80,632; Mar. 4.

Pestarini, Joseph M., St.-Ouen, France, assignor to General Electric Company. Dynamo-electric machine. 1,749,673; Mar. 4.

Peterson, Alfred J. A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical protective device. 1,749,602; Mar. 4.

Peterson, Edward H., and W. H. Odlum, assignors to Duro Metal Products Company, Chicago, Ill. Valve grinder. 1,749,300; Mar. 4.

Pfleger, Kenneth W. (See Nyquist, H., and Pfleger.)

Pfimlin, Jules, Mulhouse, France. Drawing device for spinning mules, spinning frames, and preparatory machines. 1,749,156; Mar. 4.

Pfimlin, Jules, Mulhouse, France. Drawing device for spinning frames and for preparing machinery. 1,749,393; Mar. 4.

Phelps, Cecil N., Orange, N. J. Mechanism for the automatic transfer of mail and baggage. 1,749,603; Mar. 4.

Pichson, Morris. (See Welsberg, Sidney, assignor.)

Pick, George, et al. (See Gentile, Marino, assignor.)

Pierce, Edward M., Dayton, Ohio. Automatic punch-press feed. 1,749,505; Mar. 4.

Pierce, Ernest P., Cleveland, Ohio. Punch press. 1,749,545; Mar. 4.

Pierce, Hodgson S., Detroit, Mich., assignor to The Cope Swift Company, Inc. Oil burner. 1,748,991; Mar. 4.

Pilot Radio & Tube Corporation. (See Geloso, John, assignor.)

Pirsch, Peter, and Sons Co. (See Pirsch, William R., assignor.)

Pirsch, William R., assignor to Peter Pirsch and Sons Co., Kenosha, Wis. Foam-generating tank. 1,748,992; Mar. 4.

Pitts, John B., Louisville, Ky. Mobile display rack. 1,749,259; Mar. 4.

Pittsburg Water Heater Company. (See Kolts, J. H., and Krah, assignors.)

Pittsburgh Equitable Meter Company. (See Armstrong, James R., assignor.)

Plumb, Ralph, Buffalo, assignor to Buffalo Bolt Company, North Tonawanda, N. Y. Method of and apparatus for making threaded bolts. 1,749,086; Mar. 4.

Pomeroy, Roy J., assignor of one-half to Paramount Famous Lasky Corporation, Los Angeles, Calif. Sound producing and controlling system. 1,749,301; Mar. 4.

Poujaud, Leon A., Atlanta, Ga. Asphalt roller. 1,749,647; Mar. 4.

Powell, William G., Altoona, Pa. Brake-hanger bracket. 1,749,157; Mar. 4.

Prentiss-Wabers Products Co. (See Yeager, Anton J., assignor.)

Pressey, Sidney L., Columbus, Ohio. Machine for intelligence tests. 1,749,226; Mar. 4.

Prétot, Marcel, and F. Ullmann, Mulhouse, France. Device for removing solid particles from flue gases. 1,749,260; Mar. 4.

Proctor, Charles H., Arlington, N. J., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Electrodeposition of chromium. 1,749,448; Mar. 4.

Proctor & Schwartz, Incorporated. (See Hurxthal, Alpheus O., assignor.)

Proksa, John, assignor to Helios Corporation, Chicago, Ill. Motion-picture-projecting apparatus. 1,749,304; Mar. 4.

Prosperity Company, The. (See Hart, Simeon T., assignor.)

Pruett, William A., Los Angeles, Calif. Compact fly and tackle case. 1,749,227; Mar. 4.

Prutzman, Paul W. (See Vogel, Willard L., assignor.)

Purdy, Chester A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical coil and manufacturing it. 1,748,993; Mar. 4.

Pyrene-Minimax Corporation. (See Burmeister, Hans, assignor.)

Queen, John J., Charlotte, N. C. Regulating the level of fluid in sizing vats and the like. 1,749,111; Mar. 4.

Radio Corporation of America. (See Weinberger, Julius, assignor.)

Rae, Frank B., Berkeley, Calif. Signal system. 1,749,444; Mar. 4.

Rand, Benjamin G., North Tonawanda, assignor to Remington Rand Inc., Buffalo, N. Y. Index for telephone-exchange desks. 1,749,228; Mar. 4.

Rand, James H., North Tonawanda, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index device. 1,749,229; Mar. 4.

Randmetz, Theno T., New York, N. Y. Water motor. 1,749,506; Mar. 4.

Randolph, Charles P., Oak Park, and F. H. McCormick, Glen Ellyn, assignors to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric supply system. 1,749,718; Mar. 4.

Rasch, Royal H. (See Schur, M. O., and Rasch.)

Rasmusen, Andrew M., Montrose, Colo. Nozzle support for garden hose. 1,749,302; Mar. 4.

Rawling, Walter J. Marshall, and J. B. Rumford, Cessnock, Australia. Apparatus for tipping traveling mine skips. 1,749,354; Mar. 4.

Ray, Loyd W., Wichita, Kans., assignor to The White Castle System, Inc. Structural building. 1,749,648; Mar. 4.

Raymond, Ralph L., assignor to Dominion Wood Heel Corporation, Limited, Montreal, Quebec, Canada. Wood-heel-turning machine. 1,748,994; Mar. 4.

Rea, Wilton T. (See Thorp, V. P., and Rea.)

Reece, Franklin A., Chestnut Hill, assignor to Universal Winding Company, Boston, Mass. Traversing means for winding machines. 1,749,355; Mar. 4.

Reichelt, Lester O., and J. J. Rohloff, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Serving apparatus. 1,748,995; Mar. 4.

Reichmann, Frank, J., Chicago, Ill. Loud-speaker. 1,748,996; Mar. 4.

Reid, James S., assignor to The Eaton Axle and Spring Company, Cleveland, Ohio. Sealing gasket for neck and closure structures. 1,749,604; Mar. 4.

Reiner, Waldo. (See Wall, H. M., and Reiner.)

Reisler, Simon, Indianapolis, Ind. Ligating arteries. 1,749,261; Mar. 4.

Reiss, Paul, assignor to Viking Tool and Machine Co., Inc., Brooklyn, N. Y. Automatic counter and stop device. 1,749,158; Mar. 4.

Reiter, Caspar, Berlin-Treptow, and M. Stäger, Berlin-Baumschulenweg, Germany, assignors to General Electric Company. Electric soldering machine. 1,749,719; Mar. 4.

Remington Rand Inc. (See Carlson, Edward, assignor.)

Remington Rand Inc. (See Heelan, Thomas, assignor.)

Remington Rand Inc. (See Merriam, Edmund S., assignor.)

Remington Rand Inc. (See Rand, Benjamin G., assignor.)

Remington Rand Inc. (See Rand, James H., assignor.)

Remington Rand Inc. (See Wolters, C. F., and Shuite, assignor.)

Remington Typewriter Company. (See Barney, Edwin E., assignor.)

Rentos, Costas G., New York, N. Y. Cutting or slicing device. 1,748,997; Mar. 4.

Reo Motor Car Company. (See Thomas, Horace T., assignor.)

Respess, William R., New York, assignor to L. C. L. Smith, Long Island City, N. Y. Heat, cold, and sound insulating material. 1,749,159; Mar. 4.

Reynolds, Edward L., Tulsa, Okla. Aircraft empennage. 1,749,507; Mar. 4.

Reynolds Electric Company. (See Belanger, Albert P. D., assignor.)

Reynolds, Howard, New Orleans, La., assignor to R. Hoe & Co., Inc., New York, N. Y. Web-cutting mechanism. 1,749,540; Mar. 4.

Rice, John A., Berkeley, Calif., assignor to The Bubblestone Company, Pittsburgh, Pa. Making porous products. 1,749,508; Mar. 4.

Rice, Owen R., assignor to Freyn Engineering Company, Chicago, Ill. Inwall cooling plate. 1,749,395; Mar. 4.

Richfield Oil Company of California. (See Black, John C., assignor.)

Richter, George A., assignor to Brown Company, Berlin, N. H. Composite sheeting and method of making. 1,748,998; Mar. 4.

Ries, Ray E., and F. R. Koverman, Fort Wayne, Ind. Loose-pulley oiler. 1,749,605; Mar. 4.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,633; Mar. 4.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,634; Mar. 4.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,635; Mar. 4.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,636; Mar. 4.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,637; Mar. 4.
Riley, Peter F., Chicago, Ill. Ship propulsion. 1,749,087.; Mar. 4.
Rippingille, Edward V., Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio. Coincidental lock. 1,749,736; Mar. 4.
Risser, Arthur I., assignor to U. S. Bottlers Machinery Company, Chicago, Ill. Capping machine. 1,748,960; Mar. 4.
Risser, Arthur I., assignor to U. S. Bottlers Machinery Company, Chicago, Ill. Capping appliance. 1,748,961; Mar. 4.
Roark, Robert H., assignor to The Perfection Ice Scoring Machine Company, Waco, Tex. Ice-delivery device. 1,749,262; Mar. 4.
Robb, Robert E., Evansville, Ind. Determining moisture in aggregate. 1,749,606; Mar. 4.
Roberson, Joseph G., Corcoran, Calif. Agricultural implement. 1,749,674; Mar. 4.
Robinson Packer Company. (See Fisher, Charley W., assignor.)
Rockwell, Edward A., Chicago, Ill. Motor-indicating system. Re17,616; Mar. 4.
Rockwood Corporation of America. (See Meier, Albert J., assignor.)
Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G., assignor.)
Roessler & Hasslacher Chemical Company, The. (See Proctor, Charles H., assignor.)
Rogers, Gilbert E., Rockaway, N. J. Fuse for projectiles. 1,749,088; Mar. 4.
Rohloff, John J. (See Reichelt, L. O., and Rohloff.)
Rollman, Bruce, assignor to The Ohio Cultivator Company, Bellevue, Ohio. Press. 1,749,509; Mar. 4.
Rolls-Royce Limited. (See Rowledge, Arthur J., assignor.)
Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
Rolph, Samuel F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Indicator for locks. 1,749,649; Mar. 4.
Rolscreen Company. (See Dixson, Harry, assignor.)
Rooney, Patrick J., Sugar Notch, Pa. Signal. 1,749,263; Mar. 4.
Rose, Reed P., Jackson Heights, and H. E. Cude, Floral Park, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Dispersing reclaimed rubbers. 1,749,607; Mar. 4.
Rose, Reed P., Jackson Heights, and H. E. Cude, Floral Park, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn. Dispersing rubber. 1,749,608; Mar. 4.
Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture. Des. 80,638; Mar. 4.
Rosenblatt, Isidor, Brooklyn, N. Y. Wall bracket for lighting fixtures. Des. 80,639; Mar. 4.
Rosendahl, Nils M., Waterloo, Iowa, assignor to Construction Machinery Company. Concrete distributor. 1,749,230; Mar. 4.
Ross, Laura, Los Angeles, Calif. Corset accessory. 1,749,510; Mar. 4.
Ross, Oscar A., New York, N. Y. Sewage control for moving vehicles. 1,749,356; Mar. 4.
Rouis, Paul A. A., Burlingham, N. Y. Egg-protecting means. 1,749,675; Mar. 4.
Rowledge, Arthur J., assignor to Rolls-Royce Limited, Derby, England. Change-speed gear. 1,749,264; Mar. 4.
Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Shock absorber. 1,749,609; Mar. 4.
Ruddy, Martin T., Lakewood, Ohio. Dowel-pin construction. 1,749,547; Mar. 4.
Rudzenia, Charles F., Oakland, Calif. Cleaning fluid. 1,748,999; Mar. 4.
Rue, Bert C. (See Baxter, R. N., and Rue.)
Rumford, John B. (See Rawling, W., Marshall, and Rumford.)
Russell, Bert, assignor to General Motors Corporation, Detroit, Mich. Bumper. 1,749,112; Mar. 4.
Ruth, Joseph P., jr. (See Brinker, Frederic A., assignor.)
Rutter, Josiah B., Wakefield, Mass. Cribbing. 1,749,303; Mar. 4.
Sabik, George, Western Springs, assignor to U. S. Duplicator Company, Chicago, Ill. Duplicating machine. 1,749,160; Mar. 4.
Sadler, Frederick W., and R. C. Veirs, Oklahoma City, Okla. Shade-attachment for goggles and other eyeglasses. 1,749,676; Mar. 4.
Safety Car Heating & Lighting Company. (See Schaller, O., and Schröter, assignors.)
Safety Car Heating & Lighting Company. (See Schröter, Fritz, assignor.)
Sager, Samuel N., Chicago, Ill. Pull-off legging. 1,749,231; Mar. 4.
Sager, Samuel N., Chicago, Ill. Pull-off legging. 1,749,232; Mar. 4.
St. Louis, George C., Fresno, Calif. Airplane. 1,749,047; Mar. 4.
Salomon, Fay B., New York, N. Y. Toilet compact. 1,749,445; Mar. 4.
Sands, Thomas J., Auburn, R. I., assignor to Universal Winding Company, Boston, Mass. Slug or bunch catcher. 1,749,511; Mar. 4.
Santarcangelo, Joseph, Pittsburgh, Pa. Shade holder. 1,749,446; Mar. 4.
Sargent, Frank P. (See Moore, R. G., and Sargent.)
Scaglia, Gregorio, Turin, assignor to Società Italiana Ernesto Breda, Milan, Italy. Impact ignition device. 1,749,720; Mar. 4.
Schaller, Otto, Berlin-Sudende, and F. Schröter, Berlin-Schmargendorf, Germany, assignors to Safety Car Heating & Lighting Company. Gaseous conduction lamp. 1,749,610; Mar. 4.
Schauman, Bror M. (See Schauman, Frank and B. M.)
Schauman, Frank and B. M., assignors to Automatic Anchor-Control Corporation, New York, N. Y. Anchor davit. 1,749,193; Mar. 4.
Scheeler, John C., assignor to Buffalo Wire Works Co., Inc., Buffalo, N. Y. Coupling for fence posts. 1,749,000; Mar. 4.
Scheeler, John C., assignor to Buffalo Wire Works Co. Inc., Buffalo, N. Y. Coupling for fence posts and the like. 1,749,001; Mar. 4.
Schellberg, Oscar B., New York, N. Y. Apparatus for practice of duodenal drainage. 1,749,089; Mar. 4.
Scheppmann, Wilhelm, Berlin-Tempelhof, and A. Eulenhöfer, Konigswusterhausen, near Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Apparatus for speed regulation of rotating bodies. 1,749,304; Mar. 4.
Schloemann Aktiengesellschaft. (See Gassen, Josef, assignor.)
Schlosser, John J., Frankfort, Ind. Brick-wrapping machine. 1,749,548; Mar. 4.
Schmelz, Ernst M., Detroit, Mich. Aircraft-launching apparatus. 1,749,357; Mar. 4.
Schmidt, Frank W., Jackson, assignor to General Motors Corporation, Detroit, Mich. Demountable rim and its cooperating felly. 1,749,358; Mar. 4.
Schmidt, Karl, Leverkusen, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New dyestuffs of the triphenylmethane series. 1,749,113; Mar. 4.
Schmitt, Victor T., assignor to Hinckley & Schmitt, Chicago, Ill. Water cooler. 1,749,194; Mar. 4.
Schnaier, Milton, New York, N. Y. Filling apparatus. 1,749,161; Mar. 4.
Schneider & Cie. (See Methlin, Nicolas E., assignor.)
Schneider, John J., and E. Nester, Buffalo, N. Y. French. 1,749,002; Mar. 4.
Schneider, Wilhelm. (See Neresheimer, H., and Schneider.)
Schroeder, Frank W., Bemidji, Minn. Vehicle signal. 1,749,305; Mar. 4.
Schröter, Fritz. (See Schaller, O., and Schröter.)
Schröter, Fritz, Berlin, Germany, assignor to Safety Car Heating & Lighting Company. Rectifying alternating currents. 1,749,611; Mar. 4.
Schubert & Salzer Maschinenfabrik Aktiengesellschaft. (See Graeber, Rudolph, assignor.)
Schuchman, Bertram F., Pittsburgh, Pa., assignor to Forster Manufacturing Company. Toy telephone. 1,749,447; Mar. 4.
Schur, Milton, O., and R. H. Rasch, assignors to Brown Company, Berlin, N. H. Mercerized wood-fiber tissue and preparing same. 1,749,003; Mar. 4.
Schweitzer & Conrad. (See Conrad, Nicholas J., assignor.)
Schweitzer, Hugo, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Trisazo dyestuffs and producing them. 1,749,513; Mar. 4.
Schweitzer, Hugo, Wiesdorf, near Cologne, and W. Neelmeier, Leverkusen, near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Aminodiarylsulfonpyrazolone azo dyestuffs. 1,749,677; Mar. 4.
Schweitzer, Thomas R. (See Hoffman, C., and Schweitzer.)
Schylander, John F., Chicago, Ill. Soldering iron. 1,749,396; Mar. 4.
Schylander, John F., Chicago, Ill. Soldering device. 1,749,512; Mar. 4.
Scott, Charlie B., assignor to M. E. Green Manufacturing Co., St. Louis, Mo. Eye-testing apparatus. 1,749,612, Mar. 4.
Scott, Henry D., Wheeling, W. Va. Thread protector. 1,749,162; Mar. 4.
Scott, James Y., assignor to Van Norman Machine Tool Company, Springfield, Mass. Valve-reseating apparatus. 1,749,514; Mar. 4.
Scott, Vernon A., assignor of fifty-one per cent to U. D. Clark, Toronto, Ontario, Canada. Coin-controlled operating mechanism for vending machines and the like. 1,749,195; Mar. 4.
Scott, Vernon A., assignor of fifty-one per cent to U. D. Clark, Toronto, Ontario, Canada. Machine for delivering newspapers and the like. 1,749,233; Mar. 4.
Scovill Manufacturing Company. (See Coryell, Charles N., assignor.)
Sculthorpe, Ray, assignor to Shenango-Penn Mold Company, Sharpsville, Pa. Drying sand molds. 1,749,448; Mar. 4.
Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Liner and treating the same. 1,749,748; Mar. 4.

Selberling Rubber Company. (See Wolfe, W. S., and Crossman, assignors.)
Senna, Samuel N., Chicopee, assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Testing machine. 1,749,265; Mar. 4.
Sentry Safety Control Corporation. (See Feeney, T. L., and Godoy, assignors.)
Shakeproof Lock Washer Company. (See Olson, Carl G., assignor.)
Shankland, Archibald D., Bethlehem, Pa., assignor to Bethlehem Steel Company. Manufacture of alloy steels. 1,749,678; Mar. 4.
Sharples Specialty Company, The. (See Jones, L. D., and Ayres, assignor.)
Shelby, Helene A., Oakland, Calif. Apparatus for obtaining criminal confessions and photographically recording them. 1,749,090; Mar. 4.
Shenango-Penn Mold Company. (See Schulthorpe, Ray, assignor.)
Shenango-Penn Mold Company. (See Tickner, F. W., and Thomas, assignors.)
Shulte, Charles. (See Wolters, C. F., and Shulte.)
Siemens & Halske Aktiengesellschaft. (See Gerlach, Erwin, assignor.)
Siemsen, Jurgen, Custer, assignor of one-half to A. Berry, Billings, Mont. Grain-car door. 1,749,163; Mar. 4.
Simmen, Paul J., Eden, N. Y. Automatic train control. 1,749,234; Mar. 4.
Sirian Lamp Company. (See Heany, John A., assignor.)
Sleeman, Harold, Iron River, Mich. Pulley block. 1,749,515; Mar. 4.
Slepian, Joseph, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Rectifier. 1,749,549; Mar. 4.
Sliwa, Walenty. (See Widuch, A., Hayduk, and Sliwa.)
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Electric-circuit safety lock. 1,749,091; Mar. 4.
Smalley, Burton M., assignor to Joslyn Manufacturing & Supply Co., Chicago, Ill. Insulator mounting. 1,749,359; Mar. 4.
Smith, Curtiss F. (See Cave, H., and Smith.)
Smith, Frank, Cincinnati, Ohio. Hanger hook. Des. 80,640; Mar. 4.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,749,550; Mar. 4.
Smith, John. (See Beldam, G. W., and Smith.)
Smith, John H., assignor to The Wesson Sales Company, Detroit, Mich. Tap. 1,748,962; Mar. 4.
Smith, Leonard C. L. (See Respess, William R., assignor.)
Smith, Marion F., and A. E. Wilkins, Lansing, Mich. Clutch. 1,749,516; Mar. 4.
Snarry, John W. (See Orcutt, A. H., and Snarry.)
Snelling, Walter O., Allentown, and J. A. Wyler, South Whitehall Township, Lehigh County, Pa., assignors to Trojan Powder Company, New York, N. Y. Ammonium-nitrate explosive and making it. 1,749,618; Mar. 4.
Snow, Joseph D., Bedford, Ind. Lawn-mower sharpener. 1,749,306; Mar. 4.
Snyder, Edgar W., assignor to L. H. Gilmer Co., Philadelphia, Pa. Power-transmission belt. 1,749,046; Mar. 4.
Società Anonima Radio. (See Gentilini, Augusto, assignor.)
Società Italiana Ernesto Breda. (See Scaglia, Gregorio, assignor.)
Société Barbou & Cie. (See Barbou, Pierre A., assignor.)
Sontag, Walter, Baden, near Vienna, Austria. Baffling device. 1,749,266; Mar. 4.
Sorensen, Gunbilde M., Weehawken, N. J. Tongs for sugar, candy, etc. 1,749,614; Mar. 4.
Sosy, Inc. (See Leventhal, Mitchell, assignor.)
Spencer, John E., Salem, Mass. Leather graining, boarding, and softening machine. 1,749,267; Mar. 4.
Sperry Development Company. (See Sperry, Elmer A., assignor.)
Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del. Beacon system for night flying. Re17,614; Mar. 4.
Sperry Gyroscope Company Inc. (See Bassett, Preston R., assignor.)
Spousta, John, River Rouge, Mich. Furnace. 1,749,164; Mar. 4.
Springer, Franklin W., Minneapolis, Minn. Electrical system. 1,749,397; Mar. 4.
Square D Company. (See Van Valkenburg, Hermon L., assignor.)
Stafford, George A., and C. D. Cook, Sour Lake, Tex. Apparatus for treating crude petroleum. 1,749,235; Mar. 4.
Stäger, Max. (See Reiter, C., and Stäger.)
Standard-Johnson Company. (See Donnellan, Edward P., assignor.)
Standard Oil Development Company. (See Goodwin, Ralph T., assignor.)
Standard Stoker Company Inc., The. (See Lower, N. M., and Turner, assignors.)
Standard Stoker Company Inc., The. (See Woodbridge, Howard C., assignor.)
Stanley & Patterson, Inc. (See Albright, F., and Elsasser, assignors.)
Stanton, Jordan D., Berkeley, assignor of one-half to I. G. Krieger, Lodi, Calif. Collapsible cover. 1,749,165; Mar. 4.
Staton, John C., assignor to The Coca-Cola Company, Atlanta, Ga. Refrigerator. Des. 80,641; Mar. 4.
Steel Sanitary Company, The. (See Cromwell, John C., assignor.)
Steel and Tubes, Inc. (See Holmes, Earl K., assignor.)
Stein, Berthold. (See Trautner, W., Stein, and Berliner.)
Sterba, Joseph, South Prairie, Wash. Carburetor. 1,749,721; Mar. 4.
Stevens, Clyde, Cotton Valley, La. Sucker-rod rotater. 1,749,722; Mar. 4.
Stevens, Richard H., Westmont Borough, Pa., assignor to Bethlehem Steel Company. Ingot stripper. 1,749,723; Mar. 4.
Stevenson, Howard R., Audubon, N. J., assignor to Westinghouse Electric & Manufacturing Company. Turbine blading and lashing therefor. 1,749,449; Mar. 4.
Stiasny, Edmund G., Darmstadt, Germany, and B. Jalowzer, Paris, France. Tanning hides and skins. 1,749,724; Mar. 4.
Stokes, Margaret, et al., executors. (See Howell, Robert R.)
Stoll, Charles, Rockaway Beach, assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y. Settee or similar article. Des. 80,642; Mar. 4.
Storfer, Benson, Brooklyn, assignor to Storfer Laboratories, Inc., New York, N. Y. Perfume bottle or similar article. Des. 80,643; Mar. 4.
Storfer Laboratories, Inc. (See Storfer, Benson, assignor.)
Stransky, Charles W., Francis Creek, Wis. Cleat-forming tool. 1,749,517; Mar. 4.
Strawn, Marion L., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Speed-regulating device. 1,749,004; Mar. 4.
Streich, Gordon R., Buffalo, N. Y. Curtain and valance or lambrequin support. 1,749,450; Mar. 4.
Striegel, Leslie E., Cleveland, Ohio, assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Ash gate. 1,749,092; Mar. 4.
Stringfellow, John S., Lindsay, Va. Knife construction. 1,749,236; Mar. 4.
Strohmeier, William, Andalusia, Ill. Self-adjusting shaft bearing. 1,749,196; Mar. 4.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Worthington, Everett, assignor.)
Strong, William M., Santa Barbara, Calif., assignor to General Drying Engineering Corporation. Drying apparatus. 1,749,451; Mar. 4.
Stroud, James P., Noble, Pa. Pile fabric. 1,749,551; Mar. 4.
Strout, Robert W., assignor to E. W. Bliss Company, Brooklyn, N. Y. Friction-clutch-driven press. 1,749,360; Mar. 4.
Strout, Robert W., assignor to E. W. Bliss Company, Brooklyn, N. Y. Punching press. 1,749,398; Mar. 4.
Stuart, Elmer H., assignor to Eli Lilly and Company, Indianapolis, Ind. Ephedrine-aldehyde compound and solution and preparing such compound. 1,749,361; Mar. 4.
Stuart, Elmer H., assignor to Eli Lilly and Company, Indianapolis, Ind. Ephedrine-ketone compound and solution and preparing such compound. 1,749,452; Mar. 4.
Stuart, John L., Oakland, Calif. Awning. 1,749,197; Mar. 4.
Sturdy's, J. F., Sons Co. (See Nelson, Nels T., assignor.)
Styberg, Ernest C., assignor to The Instant Freezer Corporation, Racine, Wis. Apparatus for dispensing freshly-refrigerated foods. 1,748,963; Mar. 4.
Suarez, Joseph M., assignor of one-fifth to S. P. Buck, Baltimore, Md. Railway-car brake. 1,749,362; Mar. 4.
Sun Rise Lamp Mfg. Co. (See Zweig, Louis, assignor.)
Super-Automatic Food-Machine Corporation. (See Christianson, Carl O., assignor.)
Supertile Machinery Corporation. (See Flam, Stephen, assignor.)
Surface Combustion Company, The. (See Colby, F. R., and Larsen, assignors.)
Swan, Frank S., Glen Ellyn, Ill. Building construction. 1,749,166; Mar. 4.
Swanson, Peter, Ely, Minn. Switch-stand lock. 1,749,198; Mar. 4.
Swanstrom, Frances E., Duluth, Minn. Garment. 1,749,167; Mar. 4.
Swartwout, Everett W., White Plains, N. Y. Vehicle signal. 1,749,168; Mar. 4.
Swartwout, Everett W., White Plains, N. Y. Course-signaling system. 1,749,169; Mar. 4.
Symington Company, The. (See Barrows, Donald S., assignor.)
Symington, T. H., & Son, Inc. (See Symington, T. H., and Dreuning, assignors.)
Symington, Thomas H., and P. R. Dreuning, assignors to T. H. Symington & Son, Inc., Baltimore, Md. Railway-truck bolster. 1,749,679; Mar. 4.
Syracuse Washing Machine Corporation. (See Wilkinson, Guy C., assignor.)
Tatum, John J., Baltimore, Md. Car seat. 1,749,518; Mar. 4.
Tautz, Herbert E., Milwaukee, Wis. Toy sewing machine. 1,749,114; Mar. 4.
Taylor, Harry J., New York, N. Y. Tape holder and moistener. 1,749,650; Mar. 4.
Taylor, Lloyd G., Allentown, Pa. Wheel-aligning gauge. 1,749,268; Mar. 4.

Taylor, William L., Cincinnati, Ohio. Multiplex bag. 1,749,005; Mar. 4.
Teletype Corporation. (See Kleinschmidt, Edward E., assignor.)
Terna, Géza L. (See Dirkes, V. M., and Terna.)
Thacher, John J., Wethersfield, assignor to The Fuller Brush Company, Hartford, Conn. Brush structure. 1,749,744; Mar. 4.
Thayer, Reuel H., New York, N. Y., assignor to Thayer Telkee Corporation, San Francisco, Calif. Key tag. 1,749,399; Mar. 4.
Thayer, Reuel H., Los Angeles, assignor to Thayer Telkee Corporation, San Francisco, Calif. Identification key tag. 1,749,400; Mar. 4.
Thayer Telkee Corporation. (See Thayer, Reuel H., assignor.)
Thomas, Adolph A. (See Thomas, Helen R. and A. A.)
Thomas, Adolph A., New York, N. Y. Electromagnetic translating device. Re17,617; Mar. 4.
Thomas, Helen R. and A. A., New York, N. Y. Bridge-score indicator. Des. 80,644; Mar. 4.
Thomas, Helen R. and A. A., New York, N. Y. Pencil or similar article. Des. 80,645; Mar. 4.
Thomas, Helen R. and A. A., New York, N. Y. Pencil or similar article. Des. 80,646; Mar. 4.
Thomas, Horace T., assignor to Reo Motor Car Company, Lansing, Mich. Motor-vehicle fender. 1,749,453; Mar. 4.
Thomas, James. (See Tickner, F. W., and Thomas.)
Thomas, Sherman A., Rochester, N. Y. Combined mirror and hat support. Des. 80,647; Mar. 4.
Thomas, Sherman A., Rochester, N. Y. Combined hat support and coat hanger. Des. 80,648; Mar. 4.
Thorp, Vaughn P., River Edge, N. J., and W. T. Rea, Flushing, N. Y., assignors to American Telephone and Telegraph Company. Carrier-telegraph alarm system. 1,749,048; Mar. 4.
Tickner, Frank W., Sharon, and J. Thomas, assignors to Shenango-Penn Mold Company, Sharpsville, Pa. Mold pattern. 1,749,454; Mar. 4.
Tidy, Barnard J., Port Alice, British Columbia, Canada. Oil burner. 1,749,401; Mar. 4.
Tienken, Martha A., New York, N. Y. Hair-waving device. 1,749,748; Mar. 4.
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Tobacco Perfecting Corporation, et al. (See Hopkins, Nevil M., assignor.)
Tobold, Ewald F., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Quick-detachable dust cap. 1,749,170; Mar. 4.
Transmission Ball Bearing Company Inc., The. (See Hambleton, Edwin, assignor.)
Traut, Clifford, assignor to The Higgin Manufacturing Company, Newport, Ky. Tension bar and guide for roll screens. 1,749,199; Mar. 4.
Trautner, Willy, B. Stein, and R. Berliner, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Producing 1-phenyl-benzanthrone compounds. 1,749,519; Mar. 4.
Trautwein, Friedrich, Berlin-Zehlendorf, assignor to the firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. Externally-controlled tube transmitter. 1,749,269; Mar. 4.
Trebes, Bruno M. A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Clamping device. 1,749,006; Mar. 4.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trico Products Corporation. (See Oishei, John R., assignor.)
Trojan Powder Company. (See Snelling, W. O., and Wyler, assignors.)
Tuco Products Corporation. (See Chamberlain, Harold B., assignor.)
Tune, Gunnar S., Oakland, Calif. Electric storage heater. 1,749,115; Mar. 4.
Turner, Albert. (See Einstein, S., and Turner.)
Turner, Eldon A., Graniteville, Mass. Windshield cleaner. 1,749,040; Mar. 4.
Turner, Robert M. (See Dickson, J. F., and Turner.)
Uhl, Albert, and P. E. Brickle, Chicago, Ill. Conduit support. 1,749,725; Mar. 4.
Ullmann, Francois. (See Prétot, M., and Ullmann.)
Undertakers' Supply Co., The. (See Herrmann, Isaac, assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Special Machine Company. (See Feigel, William A., assignor.)
Union Switch & Signal Company, The. (See Challans, Eric W., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
United Engineering & Foundry Company. (See Johnson, Lane, assignor.)
United Shoe Machinery Corporation. (See Gookin, Sylvester L., assignor.)
U. S. Bottlers Machinery Company. (See Risser, Arthur I., assignor.)
U. S. Duplicator Company. (See Sabik, George, assignor.)
United States Gypsum Company. (See Walper, Curry O., assignor.)
U. S. Slicing Machine Company. (See van Lammeren, Wilhelmus P., assignor.)
Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)
Universal Winding Company. (See Beckman, Gustaf S., assignor.)
Universal Winding Company. (See Reece, Franklin A., assignor.)
Universal Winding Company. (See Sands, Thomas J., assignor.)
Utica Products, Inc. (See Hauser, George D., assignor.)
Utica Products, Inc. (See Hauser, George D., assignor.)
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Regenerative heating structure. 1,749,116; Mar. 4.
Vancil, Robert L. (See King, J. L., and Vancil.)
Van Item, Johan, Bremen, Germany. Handling and transport of building blocks and the like. 1,749,249; Mar. 4.
Van Lammeren, Wilhelmus P., Voorschoten, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,749,402; Mar. 4.
Van Norman Machine Tool Company. (See Scott, James Y., assignor.)
Van Valkenburg, Hermon L., Milwaukee, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich. Electric switch. 1,749,200; Mar. 4.
Venner, Clarence H., jr., New York, N. Y. Umbrella construction. 1,749,363; Mar. 4.
Veirs, Robert C. (See Sadler, F. W., and Veirs.)
Vereinigte Stahlwerke Aktiengesellschaft. (See Hinderer, Eugen, assignor.)
Viking Tool and Machine Co. (See Reiss, Paul, assignor.)
Visscher, Gertrude P., Memphis, Tenn. Container. 1,749,680; Mar. 4.
Vogel, Willard L., Los Angeles, Calif., assignor of one-tenth to P. W. Prutsman. Mercury-bromin derivative of fluorescein. 1,749,201; Mar. 4.
Volare, Fred, Scotch Plains, N. J., assignor to The Aeolian Company. Pedal means for automatic pianos and the like. 1,749,403; Mar. 4.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash tray or similar article. Des. 80,649; Mar. 4.
Von Frommer, Rudolf, Budapest, Hungary. Cartridge guide for repeating guns. 1,749,726; Mar. 4.
Voorhoeve, Nicolaas A. J., Eindhoven, Netherlands, assignor to General Electric Company. Incandescent electric lamp. 1,749,520; Mar. 4.
Wacker, William E., Maplewood, N. J., assignor to August Goertz & Co., Inc. Cosmetic box. 1,748,964; Mar. 4.
Wadsworth Watch Case Company, The. (See Kuehne, Joseph N., assignor.)
Wagner, Cary R., Chicago, Ill., assignor to Gyro Process Company, Detroit, Mich. Vapor phase method of oil conversion. 1,749,521; Mar. 4.
Wagner, Hermann, Bad-Soden-on-the-Taunus, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs and making same. 1,749,681; Mar. 4.
Wagner, Karl E. (See Wood, J. C., Hagener, and Wagner.)
Walt, Justin F., New York, N. Y., assignor to National Aniline & Chemical Co., Inc. Dehydrating materials. 1,749,455; Mar. 4.
Walch, Albert M., Minneapolis, Minn. Device for applying brake-band linings. 1,749,615; Mar. 4.
Wales, Charles, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Pressure-gauging apparatus. 1,749,007; Mar. 4.
Walker, Howard G., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating material. 1,749,008; Mar. 4.
Walker, Raymond E., Wollaston, Mass. Face shield. 1,749,050; Mar. 4.
Walker Vehicle Company, et al. (See Whitney, Eddy R., assignor.)
Walkup, Monte W., Chicago, Ill. Bending device. 1,749,616; Mar. 4.
Wall, Harold M., and W. Reiner, Beverly, N. J. Rope structure. 1,749,171; Mar. 4.
Wallace, Edwin C., Newton, Mass. Preparing bituminous paving compositions. 1,749,651; Mar. 4.
Walper, Curry O., Detroit, Mich., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill. Plaster board. 1,749,009; Mar. 4.
Walters, Herbert C. (See Chrysl, W. A., and Walters.)
Walther, George, near Dayton, assignor to The Dayton Steel Foundry Company, Dayton, Ohio. Brake drum. 1,749,745; Mar. 4.
Wanner, Harry C., and L. H. Moss, Chicago, Ill.; said Moss assignor to said Wanner. Electric-circuit controlling and timing device. 1,749,404; Mar. 4.
Ward, Artemas, Inc. (See Giles, Harvey, assignor.)
Ward Baking Company. (See Hoffman, C., and Schweitzer, assignors.)
Warner, Le Roy J. (See Austin, M. M., and Warner.)
Warren, John R., assignor of one-half to A. Brechting, Grand Rapids, Mich. Spring retainer. 1,749,552; Mar. 4.
Washington, Dixon E., Kansas City, Mo. Automatic stop. 1,749,172; Mar. 4.
Watson, Ernest, Wauwatosa, Wis. Railway-crossing signal. 1,748,965; Mar. 4.
Watt, James A. D., London, England. Safety-razor handle. 1,749,051; Mar. 4.
Watt, James A. D., London, England. Shaving brush. 1,749,052; Mar. 4.

Weber, Cornelius G., Milwaukee, Wis. Heat-actuated device. 1,749,010; Mar. 4.
Weber, Henry E., assignor to Hassler Manufacturing Co., Inc., Indianapolis, Ind. Stabilizer for vehicles. 1,749,617; Mar. 4.
Wechsler, Samuel, Cleveland, assignor of one-half to The Jaite Company, Jaite, Ohio. Sewing machine. 1,749,118; Mar. 4.
Wedig, Bertrand, Belmont, Wis. Ice creeper. 1,749,522; Mar. 4.
Weichsel, John, New York, N. Y. Spring device. 1,749,117; Mar. 4.
Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Radio receiver control. Des. 80,650; Mar. 4.
Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Radio receiver control. Des. 80,651; Mar. 4.
Weinstein, Samuel M., Chicago, Ill. Burglarproof door. 1,749,227; Mar. 4.
Weir, G. & J., Limited. (See Lang, Charles R., assignor.)
Weis, Samuel W., et al. (See Gentile, Marino, assignor.)
Weisberg, Sidney, assignor of one-half to M. Pichson, Brooklyn, N. Y. Radio receiving apparatus. 1,749,364; Mar. 4.
Weiss, Charles, New York, N. Y. Casserole or the like. Des. 80,652; Mar. 4.
Welch, Horace H., Detroit, Mich., assignor, by mesne assignments, to C. B. Camp, trustee. Carburetor. Re17,609; Mar. 4.
Weldy, Arthur S., Canton, Ohio. Pump. 1,749,682; Mar. 4.
Wells, George F., San Francisco, Calif. Electrically-heated waffle iron. 1,749,173; Mar. 4.
Welt, Frank L., Somerville, Mass., deceased; H. L. Welt, administrator. Clamping device. 1,749,652; Mar. 4.
Welt, Howard L., administrator. (See Welt, Frank L.)
Welter, Grover C., Roswell, N. Mex. Novelty spur. Des. 80,653; Mar. 4.
Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,749,553; Mar. 4.
Wertz, John A., Canton, Ohio. Reflector signal. 1,749,405; Mar. 4.
Wesson Sales Company, The. (See Smith, John H., assignor.)
Western Electric Company. (See Blankenstein, E. E., and Coulter, assignors.)
Western Electric Company. (See Blood, Harold L., assignor.)
Western Electric Company. (See Drew, Howard S., assignor.)
Western Electric Company. (See Feeney, John D., assignor.)
Western Electric Company. (See Hofstetter, Robert, assignor.)
Western Electric Company. (See Purdy, Chester A., assignor.)
Western Electric Company. (See Reichelt, L. O., and Rohloff, assignors.)
Western Electric Company. (See Strawn, Marion L., assignor.)
Western Electric Company. (See Trebes, Bruno M. A., assignor.)
Western Electric Company. (See Wales, Charles, assignor.)
Western Electric Company. (See Walker, Howard G., assignor.)
Western Union Telegraph Company, The. (See Finn, A. J., and Myer, assignors.)
Western Union Telegraph Company, The. (See Fluharty, William G., assignor.)
Western Union Telegraph Company, The. (See Haglund, Hakon H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Crichton, Leslie N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Davis, Robert L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, Ralph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Goldsborough, Shirley L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Johnson, Josiah F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Little, Donald G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peterson, Alfred J. A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Stevenson, Howard R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
Wetherill-Morris Engineering Company. (See Morris, A. W., and Wetherill, assignors.)
Wetherill, Samuel P., jr. (See Morris, A. W., and Wetherill.)
Whelco Engineering & Manufacturing Company, The. (See Maki, Julius, assignor.)
Whitacre Engineering Company, The. (See Wood, J. C., Hagener, and Wagner, assignors.)
White Castle System, Inc., The. (See Ray, Loyd W., assignor.)
White, E. Cantelo. (See Hicks, Thomas N., assignor.)
White, Joseph A., Melrose Park, assignor to The Moore & White Company, Philadelphia, Pa. Separator for slitting machines. 1,749,618; Mar. 4.
Whitney, Eddy R., Philadelphia, Pa., assignor, by mesne assignments, of one-half to Walker Vehicle Company, Chicago, Ill., and one-half to Diveo Detroit Corporation, Detroit, Mich. Delivery truck. Re17,610; Mar. 4.
Wichert, Alfred, Mannheim-Neuostheim, Germany, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Cushioned-wheel construction. 1,749,554; Mar. 4.
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone trunking system. 1,748,966; Mar. 4.
Widoe, Fred, Omaha, Nebr. Recording and advertising device. 1,749,619; Mar. 4.
Widuch, Adam, S. Hayduk, and W. Sliwa, Michigan City, Ind. Automatic railway gate. 1,749,053; Mar. 4.
Wilfred, Thomas, Huntington, N. Y. Light-projection display. 1,749,011; Mar. 4.
Wilkins, Adelbert E. (See Smith, M. F., and Wilkins.)
Wilkinson, Guy C., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y. Gas-burner attachment for clothes-washing machines. 1,749,456; Mar. 4.
Willard Storage Battery Company. (See Lundeen, Ernest F., assignor.)
Williams, Ella G., St. Louis, Mo. Wall ornament. Des. 80,654; Mar. 4.
Williams, John D., Niles, Ohio. Grinding or polishing rolls. 1,749,457; Mar. 4.
Williams, Leroy E. (See Davis, D. H., and Williams.)
Williams, Leroy E., assignor to Highway Trailer Company, Edgerton, Wis. Articulated tongue for trailers. 1,748,907; Mar. 4.
Willson, Thomas C., Philadelphia, Pa. Camera carrying and supporting means. 1,749,012; Mar. 4.
Willson, Thomas C., Philadelphia, Pa. Photographic camera. 1,749,523; Mar. 4.
Wilson, Ira J. (See Green, Leslie P., assignor.)
Wilson, Wylie G., Elizabeth, assignor to Everlasting Valve Company, Jersey City, N. J. Valve. 1,749,119; Mar. 4.
Windhoff, Hans, Berlin, Germany. Internal-combustion engine. 1,749,683; Mar. 4.
Winslow, Irvin B., Detroit, Mich. Apparatus for assembling shims. 1,749,620; Mar. 4.
Winter, Harry A., St. Johns, Newfoundland. Game apparatus. 1,749,653; Mar. 4.
Wiremold Company, The. (See Frederickson, Otto A., assignor.)
Witry, Louis W., assignor to John Deere Tractor Company, Waterloo, Iowa. Tractor. 1,749,202; Mar. 4.
Wolf, Elmer E. (See Osgood, L. A., and Wolf.)
Wolfe, William S., Akron, and J. R. Crossan, Wadsworth, Ohio, assignors to Seiberling Rubber Company. Air bag and manufacturing same. 1,749,013; Mar. 4.
Wolters, Carl F., and C. Shulte, Marietta, Ohio, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Apparatus for automatically closing and locking safe doors. 1,749,203; Mar. 4.
Wood, Alexander P., Schenectady, N. Y., assignor to General Electric Company. Split frame for dynamo-electric machines and making the same. 1,749,728; Mar. 4.
Wood, John C., and A. Hagener, Lakewood, Ohio, and K. E. Wagner, Chicago, Ill., assignors to The Whitacre Engineering Company, Waynesburg, Ohio. Floor slab. 1,749,204; Mar. 4.
Wood Newspaper Machinery Corporation. (See Catlin, Joseph P., assignor.)
Wood Newspaper Machinery Corporation. (See Isbell, John A., assignor.)
Woodbridge, Howard C., Rochester, assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Grate shaker. 1,749,458; Mar. 4.
Woodsome, John O., Detroit, Mich. Valve-controlling apparatus. 1,749,406; Mar. 4.
Wordingham, George, Milwaukee, Wis. Garment-hanger cover. 1,749,238; Mar. 4.
Worthington, Everett, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radiocabinet or similar article. Des. 80,655; Mar. 4.
Wright, Daniel K., Paterson, N. J., assignor to General Electric Company. Electric soldering machine. 1,749,684; Mar. 4.
Wright, George J., Brookline, Mass. Rear-curtain-operator device. 1,749,621; Mar. 4.
Wyler, Joseph A. (See Snelling, W. O., and Wyler.)
Wyndham, James N. and S. L., Cardiff, Wales. Boiler-feed-water heater. 1,749,654; Mar. 4.
Wyndham, Stephen L. (See Wyndham, James N. and S. L.)
Yale & Towne Manufacturing Company, The. (See Rolph, Samuel F., assignor.)
Yeager, Anton J., assignor to Prentiss-Wabers Products Co., Wisconsin Rapids, Wis. Vapor-stove construction. 1,749,174; Mar. 4.
Yeoman, George W. (See Dorgan, Albert W., assignor.)
Yerga, Akos A., and M. Evanowff, Hammond, Ind. Ice-box attachment. 1,749,054; Mar. 4.
Young Brothers Company. (See Fox, Vernie A., assignor.)

Young, Clarence H., Boston, Mass. Skid. 1,749,270; Mar. 4.
Youngstown Steel Door Company, The. (See Barrows, Allan S., assignor.)
Yount, Clarence B., near Dayton, Ohio. Water-softening apparatus. 1,749,622; Mar. 4.
Ypsilanti Reed Furniture Company. (See Chapman, Fred A., assignor.)
Zapart, Andrew, Brooklyn, N. Y. Direction indicator for automobiles. 1,749,459; Mar. 4.
Zeh, Ludwig. (See Duisberg, W., Hentrich, and Zeh.)
Zeh, Ludwig, Wiesdorf-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Manufacture of binaphthylenedioxide-quinone. 1,749,014; Mar. 4.
Zell, David H., New York, N. Y. Receptacle. 1,749,655; Mar. 4.
Zell, David H., Brooklyn, N. Y. Vanity case. 1,749,656; Mar. 4.
Zell, David H., Brooklyn, N. Y. Vanity case. 1,749,657; Mar. 4.
Zerk, Oscar U., Chicago, Ill. Lubricant gun. 1,749,727; Mar. 4.
Zigler, Roy, Plymouth, Ohio. Antiglare device. 1,749,729; Mar. 4.
Zinman, Albert G., Brooklyn, N. Y. Plug attachment. 1,749,623; Mar. 4.
Zouckermann, Raymond, Cherbourg, France. Generation and synthesis of sounds. 1,749,685; Mar. 4.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Service indicator. 1,749,365; Mar. 4.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Ammeter magnet. 1,749,366; Mar. 4.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Accelerating means for fuel pumps. 1,749,367; Mar. 4.
Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lamp or analogous article. Des. 80,656; Mar. 4.
Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lamp base or article of analogous nature. Des. 80,657; Mar. 4.
Zwiersina, Alois J., assignor to Ackerman, Blaesser, Fezzy, Inc., Detroit, Mich. Sash-operating mechanism. 1,749,556; Mar. 4.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading device. J. G. Hudspith. 1,749,705; Mar. 4.
Acoustic diaphragm. E. C. Nilson. 1,748,990; Mar. 4.
Adding and recording machine. C. E. Broman. 1,749,694; Mar. 4.
Adjusting bolt. D. H. Groenewold. 1,749,341; Mar. 4.
Aerial distribution of materials. C. L. Pelton. 1,749,504; Mar. 4.
Aeroplane. E. H. Davis. 1,749,021; Mar. 4.
Aeroplane. A. W. Dorgan. 1,749,572; Mar. 4.
Aeroplane. B. Messick. 1,748,987; Mar. 4.
Aeroplane wing rib. C. J. Marston. 1,749,293; Mar. 4.
Agitator dip tank. V. A. Fox. 1,749,182; Mar. 4.
Air bag and manufacturing same. W. S. Wolfe. 1,749,013; Mar. 4.
Aircraft empennage. E. L. Reynolds. 1,749,507; Mar. 4.
Aircraft launching apparatus. E. M. Schmelz. 1,749,357; Mar. 4.
Airplane. W. W. Bird. 1,749,272; Mar. 4.
Airplane. A. J. Erickson. 1,749,132; Mar. 4.
Airplane. G. C. St. Louis. 1,749,047; Mar. 4.
Airplane-control mechanism. M. Morrill. 1,749,256; Mar. 4.
Air-relief device. A. Buss. 1,749,128; Mar. 4.
Airships, Berthing. C. D. Burney. 1,749,065; Mar. 4.
Alkyl esters of abietic acid, Producing. A. C. Johnston. 1,749,482–3; Mar. 4.
Altimeter, Sensitive. G. P. Luckey. 1,749,494; Mar. 4.
Anchor davit. F. and B. M. Schauman. 1,749,193; Mar. 4.
Anchor, Railway-rail. A. E. H. Barili and J. A. Hyle. 1,749,558; Mar. 4.
Animal trap. F. C. Bloom. 1,749,372; Mar. 4.
Antiglare device. R. Zigler. 1,749,729; Mar. 4.
Antiskid cross member. O. F. Keiser. 1,749,636; Mar. 4.
Armchair. L. Bernhard. Des. 80,597; Mar. 4.
Arteries, Ligating. S. Reisler. 1,749,261; Mar. 4.
Ash gate. L. E. Striegel. 1,749,092; Mar. 4.
Asphalt roller. L. A. Poujaud. 1,749,647; Mar. 4.
Assembling members, Apparatus for. R. Hofstetter, 1,749,076; Mar. 4.
Atomizer, Pocket. W. F. Geiger. Des. 80,665; Mar. 4.
Awning. J. L. Stuart. 1,749,197; Mar. 4.
Awning raising and lowering device. D. N. Irwin. 1,749,218; Mar. 4.
Baiting device. W. Sontag. 1,749,266; Mar. 4.
Bag: *See*—
Fabric bag. Multiplex bag.
Bag-delivering machine. E. Blacker. 1,749,061; Mar. 4.
Basket, Extractor. A. G. Macdonell. 1,749,292; Mar. 4.
Battery solution, conserving storage. C. B. Dilts. 1,749,665; Mar. 4.
Beacon system for night flying. E. A. Sperry. Re17,614; Mar. 4.
Bearing. H. Patterson. 1,749,391; Mar. 4.
Bearing, Railway-car journal. T. V. Buckwalter. 1,748,972; Mar. 4.
Bearing, Rolling. E. Hambleton. 1,749,281; Mar. 4.
Bearing, Self-adjusting shaft. W. Strohmeier. 1,749,196; Mar. 4.
Bearings on car axles, Mounting roller. T. V. Buckwalter. 1,748,971; Mar. 4.
Bearings on car axles, Mounting roller. T. V. Buckwalter. 1,748,973; Mar. 4.
Bed, Automatically-stabilized folding. F. S. Inco. 1,749,882; Mar. 4.
Bed davenport. E. Levy. 1,749,708; Mar. 4.
Bell, Electric signal. F. Albright and W. Elsasser. 1,749,175–6; Mar. 4.
Belt, Power-transmission. E. W. Snyder. 1,749,046; Mar. 4.
Belts, Process of and apparatus for testing. C. A. Norman. 1,749,297; Mar. 4.
Bending device. M. W. Walkup. 1,749,616; Mar. 4.
Bill fold. J. A. Curry. 1,749,020; Mar. 4.
Binaphthylenedioxide-quinone, Manufacture of. L. Zeh. 1,749,014; Mar. 4.
Bird lure. C. F. McGlashan. 1,749,497; Mar. 4.
Bit: *See*—
Disk bit.
Blading for reaction turbine. J. de Freudenreich and K. Frey. 1,749,528; Mar. 4.
Block: *See*—
Pulley block.
Board: *See*—
Ironing board. Plaster board.
Panel board.
Boat, Collapsible. H. Haugen. 1,749,703; Mar. 4.
Boat, Shallow-water. J. T. Edmonds. 1,749,276; Mar. 4.
Boat, Speed. H. L. Brownback. 1,749,017; Mar. 4.
Boiler. J. F. Dickson and R. M. Turner. 1,748,945; Mar. 4.
Bolt: *See*—
Adjusting bolt.
Bolts, Method of and apparatus for making threaded. R. Plumb. 1,749,086; Mar. 4.
Book, Check. H. Conover. 1,749,129; Mar. 4.
Boot or shoe. A. McQueen. 1,749,851; Mar. 4.
Booth. V. V. Marcus. Des. 80,630; Mar. 4.
Bottle cap, Sanitary nursing-. R. Burtchaell. 1,749,313; Mar. 4.
Bottle, Nursing. E. Kriege. 1,749,432; Mar. 4.
Bottle or similar article, Perfume. B. Storfer. Des. 80,643; Mar. 4.
Bowl, Clarifier. L. D. Jones and A. U. Ayres. 1,749,588; Mar. 4.
Box: *See*—
Cosmetic box. Journal box.
Box-blank machine, Wirebound-. E. Craig. 1,748,975; Mar. 4.
Bracket: *See*—
Brake-hanger bracket.
Bracket. H. D. Church. 1,748,974; Mar. 4.
Bracket for lighting fixtures, Wall. I. Rosenblatt. Des. 80,639; Mar. 4.
Brake: *See*—
Car brake.
Brake. K. E. Lyman. 1,749,188; Mar. 4.
Brakeband linings, Device for applying. A. M. Walch. 1,749,615; Mar. 4.
Brake drum. G. Walther. 1,749,745; Mar. 4.
Brake-hanger bracket. W. G. Powell. 1,749,157; Mar. 4.
Brake lining. R. J. Evans. 1,749,681; Mar. 4.
Brake mechanism. J. W. Batson. 1,749,624; Mar. 4.
Braking of wheels. A. Y. Dodge. 1,749,022; Mar. 4.
Brassière. B. McDaniel. 1,749,294; Mar. 4.
Bridge for an eyeglass mounting. E. J. R. Beattey. Des. 80,603; Mar. 4.
Briquette. R. T. Goodwin. 1,749,378; Mar. 4.
Brush, Carding. B. D. Goldberg. 1,748,950; Mar. 4.
Brush, Corner. H. Cave and C. F. Smith. 1,749,733; Mar. 4.
Brush, Floor. H. Cave. 1,749,737; Mar. 4.
Brush, Shaving. S. Beck. 1,749,309; Mar. 4.
Brush, Shaving. J. A. D. Watt. 1,749,052; Mar. 4.
Brush structure. H. Cave. 1,749,732; Mar. 4.
Brush structure. J. J. Thacher. 1,749,744; Mar. 4.
Buckle. L. Nelson. Des. 80,660; Mar. 4.
Buckle, Shoe. S. M. Riker. Des. 80,633–37; Mar. 4.
Building construction. F. S. Swan. 1,749,166; Mar. 4.
Bumper. B. Russell. 1,749,112; Mar. 4.
Burner: *See*—
Gas burner. Oil burner.
Burner attachment for clothes-washing machines, Gas-. G. C. Wilkinson. 1,749,456; Mar. 4.
Butter, Treating. C. Hoffman and T. R. Schweitzer. 1,749,427; Mar. 4.
Cabinet, Filing. T. Heelan. 1,749,217; Mar. 4.
Cabinet, Heat-resisting. E. S. Merriam. 1,749,222; Mar. 4.
Cabinet or similar article. F. J. Paik. Des. 80,661; Mar. 4.
Cabinet, Towel. J. R. Clover. 1,749,628; Mar. 4.
Cabinet, Water-cooler. H. D. Geyer. 1,749,337; Mar. 4.
Cable-control device. R. H. Beaumont. 1,749,060; Mar. 4.
Calendar. J. B. Carroll. 1,749,562; Mar. 4.
Camera carrying and supporting means. T. C. Willson. 1,749,012; Mar. 4.
Camera, Photographic. T. C. Willson. 1,749,523; Mar. 4.
Can-making machine. G. O. Frostad and J. E. Anuen. 1,749,279; Mar. 4.
Capping appliance. A. I. Risser. 1,748,961; Mar. 4.
Capping machine. A. I. Risser. 1,748,960; Mar. 4.
Caps, Retaining device for. C. H. Behnke. 1,749,462; Mar. 4.
Car body or car top, Dumping. T. G. Jungerson. 1,749,587; Mar. 4.
Car brake, Railway-. J. M. Suarez. 1,749,362; Mar. 4.
Car seat. J. J. Tatum. 1,749,518; Mar. 4.
Carbonising or distilling materials, Apparatus for. S. McEwen. 1,749,641; Mar. 4.
Carburetor. H. H. Welch. Re17,609; Mar. 4.
Carburetor. J. Sterba. 1,749,721; Mar. 4.
Carriage, Conveyer. J. Huebsch. 1,749,381; Mar. 4.
Carrier: *See*—
Ice-cream carrier.
Cartridge guide for repeating guns. R. von Frommer. 1,749,726; Mar. 4.
Case: *See*—
Contact and tackle case. Vanity case.
Casing for an alarm clock and dial therefor, Combined. P. Lux. Des. 80,628; Mar. 4.

Casserole or the like. C. Weiss. Des. 80,652; Mar. 4.
Casting apparatus. S. H. Carbis. 1,749,314; Mar. 4.
Casting, Piston-ring. T. E. McFall. 1,749,147; Mar. 4.
Catch keeper, Adjustable. J. Maki. 1,749,742; Mar. 4.
Centrifugal drier. H. C. Behr. 1,749,369–70; Mar. 4.
Centrifugal separator. H. O. Lindgren. 1,749,291; Mar. 4.
Ceramic ware, Manufacture of. J. W. Mellor. 1,749,642; Mar. 4.
Chain-making machine. A. J. Lewis. 1,749,435; Mar. 4.
Chair: *See*—
Folding chair.
Chair. L. Bernhard. Des. 80,598; Mar. 4.
Chair. F. A. Chapman. Des. 80,604–5; Mar. 4.
Chair. F. Debski. Des. 80,607; Mar. 4.
Chair or similar article. F. Havel. Des. 80,624; Mar. 4.
Chamfering machine, Gear-tooth-. C. E. Hamilton. 1,749,580; Mar. 4.
Chromium, Electrodeposition of. C. H. Proctor. 1,749,443; Mar. 4.
Cigarettes, cigars, and pipe cartridges, Improving. N. M. Hopkins. 1,749,582; Mar. 4.
Cinder-block machine. V. Dahl. 1,749,375; Mar. 4.
Cinematographic machine. A. Gentilini. 1,749,026; Mar. 4.
Circuit, Automatic stroke-corrector. A. J. Finn and P. L. Myer. 1,749,738; Mar. 4.
Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,749,688; Mar. 4.
Circuits, Control system for oscillation. G. Messtorff. 1,749,295; Mar. 4.
Clamp: *See*—
No-baste clamp. Pipe clamp.
Clamp. S. Kokay. 1,749,491; Mar. 4.
Clamping device. B. M. A. Trebes. 1,749,006; Mar. 4.
Clamping device. F. L. Welt. 1,749,652; Mar. 4.
Clasp. N. T. Nelson. 1,749,440; Mar. 4.
Cleaner: *See*—
Suction cleaner. Windshield cleaner.
Cleaning fluid. C. F. Rudzenia. 1,748,999; Mar. 4.
Clipper, Hand hair. J. Oster. 1,749,543; Mar. 4.
Clock case. G. Graff. Des. 80,613–17; Mar. 4.
Clocks, Back-wind mechanism for. T. N. Hicks. 1,749,185; Mar. 4.
Closet: *See*—
Water-closet.
Closet. C. R. Crane, II. Des. 80,606; Mar. 4.
Closure lock. E. W. McGhan. 1,749,255; Mar. 4.
Closure operator. M. R. Harris. 1,749,425; Mar. 4.
Cloth formation, Pieced-. E. Galati. 1,749,025; Mar. 4.
Cloth, Method of and apparatus for steaming and refinishing. I. Cohen. 1,749,564; Mar. 4.
Cloth spreading and piling machine. J. E. Gadbois. 1,749,214; Mar. 4.
Clutch. M. F. Smith and A. E. Wilkins. 1,749,516; Mar. 4.
Coin assorter. E. P. Donnellan. 1,749,421; Mar. 4.
Coincidental lock. E. V. Rippingille. 1,749,736; Mar. 4.
Coking. H. G. Jennison and C. R. Faben. 1,749,138; Mar. 4.
Combustion chamber. W. B. Earnshaw and R. N. Janeway. 1,749,327; Mar. 4.
Compact, Toilet. F. B. Salomon. 1,749,445; Mar. 4.
Compass, Gyroscopic. P. R. Bassett. 1,749,050; Mar. 4.
Compound for cleaning. C. G. Chevalier. 1,749,317; Mar. 4.
Compound for filling recesses in metal castings and the like. Z. M. Marr. 1,749,541; Mar. 4.
Compressor, Air. G. Gunderson. 1,748,979; Mar. 4.
Compressor, Spring. R. B. Law and J. A. Clapper. 1,749,591; Mar. 4.
Concrete distributor. N. M. Rosendahl. 1,749,230; Mar. 4.
Concrete form. C. L. Meyer. 1,749,437; Mar. 4.
Concrete-mixer turntable and subgrader, Combination. J. W. Heltzel. 1,749,101; Mar. 4.
Condenser, Steam. J. F. Kirgan. 1,749,141; Mar. 4.
Condenser, Variable. A. E. Marshall. 1,749,042; Mar. 4.
Conductor and spark intensifier, High-tension-current. J. S. M. Hendershot. 1,749,480; Mar. 4.
Container. G. D. Hauser. 1,749,581; Mar. 4.
Container. G. P. Visscher. 1,749,680; Mar. 4.
Control, Automatic door. W. Koch. 1,749,186; Mar. 4.
Control for gas stoves, Safety. C. Peebles. 1,749,085; Mar. 4.
Control for internal-combustion engines, Charge-heating. J. R. Francis. 1,749,246; Mar. 4.
Control for natural-gas engines, Automatic fuel. W. C. Lambing. 1,749,492; Mar. 4.
Control instrument. R. Hofstetter. 1,749,983; Mar. 4.
Control switch. G. E. Boggs. 1,749,693; Mar. 4.
Control system, Supervisory. R. J. Wensley. 1,749,553; Mar. 4.
Cooker and roaster, Combination. A. Cook. 1,749,527; Mar. 4.
Cooler: *See*—
Water cooler.
Cooling or refrigerating structure. E. F. Hersh. 1,749,343; Mar. 4.
Cooling plate, Inwall. O. R. Rice. 1,749,395; Mar. 4.
Coop, Shipping. A. M. Eubanks. 1,749,377; Mar. 4.
Core, Collapsible. H. A. Denmire. 1,749,420; Mar. 4.
Cores, Apparatus for coating. H. S. Drew. 1,748,947; Mar. 4.
Corset accessory. L. Ross. 1,749,510; Mar. 5.
Cosmetic box. W. E. Wacker. 1,748,964; Mar. 4.
Counter and stop device, Automatic. P. Reiss. 1,749,158; Mar. 4.
Coupler system, Electric. G. A. Mead. 1,749,149; Mar. 4.
Coupling: *See*—
Fence-post coupling.
Coupling for fence posts and the like. J. C. Scheeler. 1,749,001; Mar. 4.
Cover, Bolted dome. S. F. Beasley. 1,749,122; Mar. 4.
Cover, Collapsible. J. D. Stanton. 1,749,165; Mar. 4.
Cover for machines, Silencing. R. N. Baxter and B. C. Rue. 1,749,177; Mar. 4.
Cover, Garment-hanger. G. Wordingham. 1,749,238; Mar. 4.
Covering or turbine, Head. A. M. Grean. 1,749,340; Mar. 4.
Cranes and the like, Base for. C. L. George. 1,749,183; Mar. 4.
Crank-case implement. H. A. McGowan. Re17,613; Mar. 4.
Crank-case ventilation. J. H. Hunt. 1,749,345; Mar. 4.
Cribbing. J. B. Rutter. 1,749,303; Mar. 4.
Criminal confessions and photographically recording them. Apparatus for obtaining. H. A. Shelby. 1,749,090; Mar. 4.
Crossing signal, Railway-. E. Watson. 1,748,965; Mar. 4.
Crystallization, Method of and apparatus for. E. W. Kopke. 1,749,588; Mar. 4.
Cultivator. H. Mehlig. 1,749,731; Mar. 4.
Current supply for vacuum tubes, Plate. H. Benioff. 1,749,660; Mar. 4.
Currents, Rectifying alternating. F. Schröter. 1,749,611; Mar. 4.
Curtain, Foldable. C. H. Nordell. 1,749,191; Mar. 4.
Curtain-operator device, Rear-. G. J. Wright. 1,749,621; Mar. 4.
Cut-out, Primary. N. J. Conrad. Re17,612; Mar. 4.
Cutting or slicing device. C. G. Rentos. 1,748,997; Mar. 4.
Cylinder head for gas engines. J. S. Newlon. 1,749,646; Mar. 4.
Cylindrical surfaces, Device for finishing. G. R. Maupin. 1,748,959; Mar. 4.
Damper. W. S. Miller. 1,749,498; Mar. 4.
Dehydrating materials. J. F. Wait. 1,749,455; Mar. 4.
Delivery device, Liquid-. R. S. Hunicke. 1,748,985; Mar. 4.
Dental bridge, Semifixed. M. C. Lasky. 1,749,493; Mar. 4.
Diaphragm for electroacoustic apparatus. E. Gerlach. 1,749,635; Mar. 4.
Diathermy. H. S. Akers. 1,748,937; Mar. 4.
Direction indicator for automobiles. A. Zapart. 1,749,459; Mar. 4.
Disk bit. F. W. Hild. 1,749,344; Mar. 4.
Dispensing apparatus, Liquid-. J. B. Davis. 1,749,469; Mar. 4.
Dispensing freshly-refrigerated foods, Apparatus for. E. C. Styberg. 1,748,963; Mar. 4.
Dispensing gun for decarbonizing liquids. M. L. Blair. 1,749,312; Mar. 4.
Dispensing machine, Gummed-tape-. R. G. Beach. 1,748,940; Mar. 4.
Dispensing machine, Gummed-tape-. R. G. Beach. 1,749,407; Mar. 4.
Display device. J. C. Duke. 1,749,696; Mar. 4.
Display rack, Mobile. J. B. Pitts. 1,749,259; Mar. 4.
Doll's cradle and sound-producing means, Combined. L. Marx. 1,749,081; Mar. 4.
Door and lintel for silos. A. I. Anderson. 1,749,687; Mar. 4.
Door attachment. G. W. Ackerman. 1,749,055; Mar. 4.
Door, Burglarproof. S. M. Weinstein. 1,749,237; Mar. 4.
Door, Car. A. S. Barrows. 1,748,942; Mar. 4.
Doorcheck. A. C. Earhart. 1,749,573; Mar. 4.
Door, Grain-car. J. Siemsen. 1,749,163; Mar. 4.
Door mechanism, Yielding. H. F. Flowers. 1,749,530; Mar. 4.
Door of molded asphalt composition, Refrigerator. H. D. Geyer. 1,749,336; Mar. 4.
Doors, Apparatus for automatically closing and locking safe. C. F. Wolters and C. Shulte. 1,749,203; Mar. 4.
Dowel-pin construction. M. T. Ruddy. 1,749,547; Mar. 4.
Drain, Automatic. J. J. Hennessy. 1,748,982; Mar. 4.
Drawing device for spinning frames and for preparing machines. J. Pfimlin. 1,749,393; Mar. 4.
Dress. D. Long. Des. 80,658–9; Mar. 4.
Drier: *See*—
Centrifugal drier.
Drier. C. J. Bleil. 1,749,525; Mar. 4.
Drier. R. Kastead. 1,749,485; Mar. 4.
Drill: *See*—
Rock drill.
Drilling machine. J. S. Barnes. 1,748,941; Mar. 4.
Drying apparatus. W. M. Strong. 1,749,451; Mar. 4.
Dumb-bell, Orthodontic. H. C. Ferris. 1,749,632; Mar. 4.
Duodenal drainage, Apparatus for practice of. O. B. Schellberg. 1,749,089; Mar. 4.
Duplicating machine. G. Sabik. 1,749,160; Mar. 4.
Dustcap, Quick-detachable. E. F. Tobold. 1,749,170; Mar. 4.
Dyestuffs, Aminodiarylsulfonpyrazolone azo. H. Schweitzer and W. Neelmeier. 1,749,677; Mar. 4.
Dyestuffs and making same, Azo. H. Wagner. 1,749,681; Mar. 4.
Dyestuffs and producing them, Trisazo. H. Schweitzer. 1,749,513; Mar. 4.
Dyestuffs of the triphenylmethane series, New. K. Schmidt. 1,749,113; Mar. 4.

Dyestuffs, Vat. H. Neresheimer and W. Schneider. 1,749,501; Mar. 4.
Dyestuffs which are alanines of the anthraquinone series and their derivatives. W. Duisberg, W. Hentrich, and L. Zeh. 1,749,242; Mar. 4.
Egg gatherer. A. De Paemelaere. 1,749,472; Mar. 4.
Egg-preserving machine. A. E. Lindstrom. 1,749,219; Mar. 4.
Egg-protecting means. P. A. A. Rouis. 1,749,675; Mar. 4.
Electric air heater, Portable. A. T. Lincecum. 1,749,039; Mar. 4.
Electric-circuit controlling and timing device. H. C. Wanner and L. H. Moss. 1,749,404; Mar. 4.
Electric machine, Dynamo-. J. M. Pestarini. 1,749,673; Mar. 4.
Electric supply system. C. P. Randolph and F. H. McCormick. 1,749,718; Mar. 4.
Electric switch. H. E. Norviel. 1,749,352; Mar. 4.
Electric switch. H. L. Van Valkenburg. 1,749,200; Mar. 4.
Electrical coil and manufacturing it. C. A. Purdy. 1,748,993; Mar. 4.
Electrical heating unit. C. W. Logan. 1,748,958; Mar. 4.
Electrical system. F. W. Springer. 1,749,397; Mar. 4.
Electrode for electrolytic cells. E. F. Lundeen. 1,749,145; Mar. 4.
Electromagnetic translating device. A. A. Thomas. Re17,617; Mar. 4.
Electromechanical device of the induction type. E. W. Challans. 1,748,944; Mar. 4.
Engine: *See*—
Internal-combustion engine. Valve engine.
Piston engine.
Engine-starting apparatus. W. A. Chryst. 1,749,319; Mar. 4.
Engines, Automatic stopping and starting device for gasoline. K. A. and R. C. Graves and H. Juneau. 1,749,668; Mar. 4.
Envelope, Balloon. J. D. Edwards. 1,749,474; Mar. 4.
Ephedrine-aldehyde compound and solution and preparing such compound. E. H. Stuart. 1,749,361; Mar. 4.
Ephedrine-ketone compound and solution and preparing such compound. E. H. Stuart. 1,749,452; Mar. 4.
Exercising apparatus. F. King. 1,749,488; Mar. 4.
Exercising apparatus. J. Pagano. 1,749,644; Mar. 4.
Explosive, and making it, Ammonium nitrate. W. O. Snelling and J. A. Wyler. 1,749,613; Mar. 4.
Extension device. J. N. Kuehne. 1,749,036; Mar. 4.
Eye-testing apparatus. C. B. Scott. 1,749,612; Mar. 4.
Eyelet. S. L. Gookin. 1,748,952; Mar. 4.
Fabric: *See*—
Necktie-lining fabric. Pile fabric.
Fabric bag, Netted-cord-. T. J. Kelley. 1,749,734; Mar. 4.
Fan and beater, Combined electric. H. W. Harris. 1,749,282; Mar. 4.
Fastener-holding device. A. J. Neafie. 1,749,439; Mar. 4.
Fastener, Shade or curtain. D. Mark. 1,749,595; Mar. 4.
Fasteners, Inserting. S. L. Gookin. 1,748,951; Mar. 4.
Feeding device for thrashers, Pneumatic. M. Eisele. 1,749,475; Mar. 4.
Fence post. R. D. Martin. 1,749,640; Mar. 4.
Fence-post coupling. J. C. Scheeler. 1,749,000; Mar. 4.
Filling and handling large sheets. H. L. De Lisle. 1,749,376; Mar. 4.
Filling apparatus. M. Schnaier. 1,749,161; Mar. 4.
Filter device. F. L. M. Kenney. 1,749,730; Mar. 4.
Filter press, Hydraulic. W. H. Mathers. 1,749,080; Mar. 4.
Fire extinguisher, Automatic. H. W. Partlow. 1,749,155; Mar. 4.
Fire-preventing means for motion-picture-projecting machines. T. L. Feeney and H. Godoy. 1,749,577; Mar. 4.
Flanging sheet metal. J. A. McGregor. 1,749,148; Mar. 4.
Floor construction. H. B. Chamberlain. 1,749,563; Mar. 4.
Floor slab. J. C. Wood, A. Hagener, and K. E. Wagner. 1,749,204; Mar. 4.
Flower, Artificial. W. E. Compton. 1,749,526; Mar. 4.
Fluid-elevating apparatus. L. H. Miles. 1,749,151; Mar. 4.
Fluid in sizing vats and the like, Regulating the level of. J. J. Queen. 1,749,111; Mar. 4.
Fly and tackle case, Compact. W. A. Pruett. 1,749,227; Mar. 4.
Flytrap. G. Palmos. 1,749,717; Mar. 4.
Foam for fire-extinguishing purposes, Apparatus for producing. H. Burmeister. 1,749,411; Mar. 4.
Foam-generating tank. W. R. Pirsch. 1,748,992; Mar. 4.
Folding chair. W. H. Kendall. 1,749,486; Mar. 4.
Food products and the like, Apparatus for smoking, curing, and drying. A. P. D. Belanger. 1,749,559; Mar. 4.
Footwear and making the same. M. Lippert. 1,749,254; Mar. 4.
Forming, bending, and cutting off metal strips, Method and machine for. M. Hasen. 1,749,342; Mar. 4.
Forming machine and the like. O. Georg. 1,749,334; Mar. 4.
Frame: *See*—
Knitting frame.
Frame for dynamo-electric machines and making the same, Split. A. P. Wood. 1,749,728; Mar. 4.
Friction-clutch-driven press. R. W. Strout. 1,749,360; Mar. 4.
Frying pan, Safety. A. B. Abel. 1,749,289; Mar. 4.
Fuel, Apparatus for burning. W. C. Coleman. 1,749,629; Mar. 4.
Fuel-charging device. F. E. Aseltine. 1,749,307; Mar. 4.
Fuel mixer, Automatic thermostatic auto. I. W. Humphrey. 1,749,034; Mar. 4.
Furnace: *See*—
Heating furnace.
Furnace. J. Spousta. 1,749,164; Mar. 4.
Furnaces, Dumping conveyer mechanism for. F. R. Colby and A. L. Larsen. 1,749,415; Mar. 4.
Furniture, Combination article of. T. Agazzi. 1,749,686; Mar. 4.
Fuse for projectiles. G. E. Rogers. 1,749,088; Mar. 4.
Fuses, Setting device for time. N. E. Methlin. 1,749,643; Mar. 4.
Game apparatus. H. A. Winter. 1,749,653; Mar. 4.
Garbage and refuse remover, Sanitary. E. Palc. 1,749,503; Mar. 4.
Garment. F. E. Swanstrom. 1,749,167; Mar. 4.
Garment, Protective. H. A. North. 1,749,714; Mar. 4.
Garment rack. W. L. Evans. 1,749,576; Mar. 4.
Gas burner. J. H. Koltz and E. A. Krah, jr. 1,749,385; Mar. 4.
Gas heater, Radiant. K. C. Farnsworth. Des. 80,610–11; Mar. 4.
Gas saver and carbon remover. A. H. Langman. 1,749,078; Mar. 4.
Gasket for neck and closure structures, Sealing. J. S. Reid. 1,749,604; Mar. 4.
Gasoline for internal-combustion engines to remove and prevent the formation of carbon; Treating commercial. M. J. Fessler. 1,749,244; Mar. 4.
Gate: *See*—
Ash gate. Railway gate.
Gauge: *See*—
Wheel-aligning gauge.
Gauge light. G. W. Osborn. 1,749,299; Mar. 4.
Gauge rod. M. J. Kist. 1,749,489–90; Mar. 4.
Gear, Change-speed. A. J. Rowledge. 1,749,264; Mar. 4.
Gear, Locomotive valve. F. H. Benton. 1,749,408; Mar. 4.
Gearing, Intermittent. E. Christiansen. 1,749,663; Mar. 4.
Gears, Apparatus for finishing. W. E. Hoke. 1,749,704; Mar. 4.
Gears, Method and apparatus for making. W. E. Hoke. 1,749,670; Mar. 4.
Generator for hydrocarbon engines, Explosive-fuel-mixture. J. W. Ingleton. 1,749,030; Mar. 4.
Glass, Apparatus for forming sheet. N. Fransen. 1,749,332; Mar. 4.
Goggles and other eyeglasses, Shade attachment for. F. W. Sadler and R. C. Veirs. 1,749,676; Mar. 4.
Governor for internal-combustion engines. G. L. Moyers and E. A. Abraham. 1,749,500; Mar. 4.
Grease, Making lubricating. E. N. Klemgard. 1,749,251; Mar. 4.
Grinder, Dead-center. S. Einstein and A. Turner. 1,749,328; Mar. 4.
Grinder, Tool. W. E. Lutz. 1,749,105; Mar. 4.
Grinder, Valve. E. H. Peterson and W. H. Odlum. 1,749,300; Mar. 4.
Grinding apparatus. R. J. Emmert. 1,749,329; Mar. 4.
Grinding machine and other machine tool. A. H. Orcutt and J. W. Snarry. 1,749,258; Mar. 4.
Gripper for duplex labelling machines, Label. C. H. Oslund. 1,749,716; Mar. 4.
Gripping device. H. W. Orndoff. 1,749,601; Mar. 4.
Guide for cables and the like. E. R. Maison. 1,749,146; Mar. 4.
Guide, Rod. C. H. Brown. 1,749,626; Mar. 4.
Gun, Machine. R. F. Hudson. 1,749,187; Mar. 4.
Hair-waving device. M. A. Tienken. 1,749,748; Mar. 4.
Hamburger pats and the like, Device for forming. A. A. Berg. 1,749,178; Mar. 4.
Handle: *See*—
Razor handle.
Handle for automobile hood catch. A. Claud-Mantle. Des. 80,662; Mar. 4.
Handle for automobile hood catch. R. G. Moore and F. P. Sargent. Des. 80,663–4; Mar. 4.
Handling and transport of building blocks and the like. J. Van Item. 1,749,249; Mar. 4.
Hanger for air cables. O. A. Grönberg. 1,749,669; Mar. 4.
Hanger hook. F. Smith. Des. 80,640; Mar. 4.
Harrow. J. F. Hill. 1,749,074; Mar. 4.
Harvester and picker, Cotton. J. Darbonne, jr. 1,749,468; Mar. 4.
Harvester, Potato. W. H., sr., and E. M. Allen. 1,749,205; Mar. 4.
Hat iron and steamer. D. Freedlein. 1,749,667; Mar. 4.
Headrest. I. Herrmann. 1,748,954; Mar. 4.
Heat-actuated device. C. G. Weber. 1,749,010; Mar. 4.
Heater: *See*—
Electric air heater. Water heater.
Storage heater.
Heating and cooling system, Motor. G. D. Gordon. 1,749,424; Mar. 4.
Heating and ventilating apparatus, Unit. H. C. Davis and L. D. Harnett. 1,749,417; Mar. 4.
Heating apparatus, Air-. A. B. Modine. 1,749,499; Mar. 4.

Heating furnace, Sheet-metal. W. A. Lacke. 1,749,148; Mar. 4.
Heating structure, Regenerative. J. Van Ackeren. 1,749,116; Mar. 4.
Heating system, Electric. C. E. Boggs. 1,749,692; Mar. 4.
Heel-turning machine, Wood-. B. L. Raymond. 1,748,994; Mar. 4.
Helicopter. G. de Bothezat. 1,749,471; Mar. 4.
Hides and skins, Tanning. E. G. Stiasny and B. Jalowser. 1,749,724; Mar. 4.
High-tension switch. T. F. Johnson, jr. 1,749,537; Mar. 4.
Hinge assembly for refrigerators or the like. G. Graff. Des. 80,618; Mar. 4.
Hoe, Rotary. C. F. Bauer. 1,749,206; Mar. 4.
Holder and cutter, Thread. A. Z. Bennett. 1,749,691; Mar. 4.
Holder and moistener, Tape. H. J. Taylor. 1,749,650; Mar. 4.
Holder, Fruit. E. D. Ostricher. 1,749,224; Mar. 4.
Holder, Grain-spout. R. R. Howell. 1,749,583; Mar. 4.
Holder, Key. E. B. Donaldson. 1,749,630; Mar. 4.
Holder, Match. J. L. Clarke. 1,749,019; Mar. 4.
Holder, Shade. J. Santarcangelo. 1,749,446; Mar. 4.
Holder, Table-receptacle. S. Lapin. 80,626; Mar. 4.
Holding milk, System for. B. L. Harts. 1,749,535; Mar. 4.
Hollow articles, Forming. E. K. Holmes. 1,749,428; Mar. 4.
Hook: *See*—
Landing hook.
Hydrocarbons, Purifying. J. C. Black. 1,749,240; Mar. 4.
Ice-box attachment. A. A. Yerga and M. Evanowff. 1,749,054; Mar. 4.
Ice-cream carrier. V. J. Ault. 1,749,658; Mar. 4.
Ice creeper. B. Wedig. 1,749,522; Mar. 4.
Ice-delivery device. R. H. Roark. 1,749,262; Mar. 4.
Ignition device, Impact. G. Scaglia. 1,749,720; Mar. 4.
Ignition switch, Lock-controlled. C. W. Mitchell. 1,749,672; Mar. 4.
Implement, Agricultural. J. G. Roberson. 1,749,674; Mar. 4.
Incubator. E. Egan. 1,741,697; Mar. 4.
Index device. J. H. Rand. 1,749,229; Mar. 4.
Index for telephone-exchange desks. B. G. Rand. 1,749,228; Mar. 4.
Indicating system. E. C. Horton. 1,749,429; Mar. 4.
Indicator: *See*—
Service indicator. Tank indicator.
Indicator for games. T. H. Decker. 1,749,418; Mar. 4.
Indicator for locks. S. F. Rolph. 1,749,649; Mar. 4.
Ingot-pushing device. J. Gassen. 1,748,943; Mar. 4.
Ingot stripper. R. H. Stevens. 1,749,723; Mar. 4.
Instrument case, Musical. W. E. Janssen. 1,749,585; Mar. 4.
Insulated conductor. O. A. Frederickson. 1,749,740; Mar. 4.
Insulating material. H. G. Walker. 1,749,008; Mar. 4.
Insulating material, Heat, cold, and sound. W. R. Respess. 1,749,159; Mar. 4.
Insulator construction. A. Haller. 1,749,534; Mar. 4.
Insulator mounting. B. M. Smalley. 1,749,359; Mar. 4.
Interlocking manual and power feed control. B. P. Graves. 1,749,073; Mar. 4.
Internal-combustion engine. L. L. Mead. 1,749,542; Mar. 4.
Internal-combustion engine. H. Windhoff. 1,749,683; Mar. 4.
Iron: *See*—
Soldering iron. Waffle iron.
Steaming iron.
Ironing board. J. E. Kalgren. 1,748,956; Mar. 4.
Irons, Sole plate for laundry. M. W. McArdle. 1,749,596–7; Mar. 4.
Jack: *See*—
Lasting jack. Latch jack.
Joint: *See*—
Pivot joint. Universal joint.
Journal box. D. S. Barrows. 1,749,095; Mar. 4.
Knife construction. J. S. Stringfellow. 1,749,236; Mar. 4.
Knife, Sheep. J. L. King and R. L. Vancil. 1,749,288; Mar. 4.
Knitted fabric and producing the same. J. A. Firsching. 1,749,245; Mar. 4.
Knitting frame, Flat-. R. Graeber. 1,749,479; Mar. 4.
Knitting machine. A. Landry. Re17,608; Mar. 4.
Knitting machine, Circular-. C. W. Diffenderfer. 1,748,946; Mar. 4.
Knob for radiodials. J. Geloso. Des. 80,612; Mar. 4.
Lamp. J. F. R. Heinisch. 1,749,426; Mar. 4.
Lamp base or article of analogous nature. L. Zweig. Des. 80,657; Mar. 4.
Lamp, Gaseous conduction. O. Schaller and F. Schröter. 1,749,610; Mar. 4.
Lamp, Incandescent electric. J. A. Heany. 1,749,136; Mar. 4.
Lamp, Incandescent electric. N. A. J. Voorhoeve. 1,749,520; Mar. 4.
Lamp or analogous article. L. Zweig. Des. 80,656; Mar. 4.
Landing hook, Shock absorbing. R. J. Minshall. 1,749,438; Mar. 4.
Lasting jack. H. G. Ellis. 1,748,977; Mar. 4.
Latch assembly for refrigerators or the like. G. Graff. Des. 80,619–20; Mar. 4.
Latch jack, Trip-. F. J. Hinderliter. 1,749,379; Mar. 4.
Latch, Roll-screen. H. Dixson. 1,749,180; Mar. 4.
Lathes, Lead-screw-controlling device for. E. F. McNutt. 1,749,598; Mar. 4.
Lead, Alkylated. H. W. Daudt. 1,749,567; Mar. 4.
Leather graining, boarding, and softening machine. J. E. Spencer. 1,749,267; Mar. 4.
Leg for horses, etc. F. G. Kingston. 1,749,706; Mar. 4.
Legging, Pull-off. S. N. Sager. 1,749,231–2; Mar. 4.
Lifting device to facilitate the removal of cigarettes or other small articles of similar shape from packets and like containers. H. W. Martin. 1,749,886; Mar. 4.
Light: *See*—
Gauge light.
Light-projection display. T. Wilfred. 1,749,011; Mar. 4.
Lighting fixture. I. Rosenblatt. 80,638; Mar. 4.
Limestone for production of metallic magnesium, etc., Utilization of dolomite or magnesian. H. H. Dow and E. O. Barstow. 1,749,210; Mar. 4.
Liner and treating the same. L. B. Sebrell. 1,749,743; Mar. 4.
Link. J. B. Baxter. 1,749,096; Mar. 4.
Liquid-supply apparatus. W. A. Chryst and H. C. Walters. 1,749,318; Mar. 4.
Liquids and solids, Continuous separation of. H. C. Behr. 1,749,368; Mar. 4.
Liquids, Apparatus for carbonating. A. E. Becker. 1,749,625; Mar. 4.
Liquids, Apparatus for proportioning. P. W. Craig. 1,749,130; Mar. 4.
Liquids, Automatically-operating mechanism for elevating. R. D. Lentz. 1,749,144; Mar. 4.
Liquids, Degasification of. R. W. Cadman. 1,749,561; Mar. 4.
Liquids such as molten metal, Apparatus for pouring. A. W. Morris and S. P. Wetherill, jr. 1,749,083; Mar. 4.
Liquors accruing from the treatment of cellulose material, Treating residual. P. A. Barbou. 1,749,557; Mar. 4.
Lock: *See*—
Closure lock. Safety lock.
Coincidental lock. Switch-stand lock.
Lock. L. Graveure. 1,749,533; Mar. 4.
Lock frame. M. Leventhal. Des. 80,627; Mar. 4.
Locking device, Interchangeable-character. M. J. Hogan. 1,748,934; Mar. 4.
Looms, Let-off for. W. H. Baker. 1,749,120; Mar. 4.
Looms, Let-off mechanism for. H. A. Davis. 1,749,131; Mar. 4.
Looms, Shed-diverting means for. A. E. Benson. 1,749,123; Mar. 4.
Loud-speaker. F. J. Reichmann. 1,748,996; Mar. 4.
Lubricant gun. O. H. Zerk. 1,749,727; Mar. 4.
Lubricating device. R. Ehrenfeld. 1,749,574; Mar. 4.
Lubricating system. H. J. Graham. 1,749,247; Mar. 4.
Machine for broaching spirals. A. Forberg. 1,749,633; Mar. 4.
Machine for cleaning beans, peas, etc. H. T. Blake. 1,748,943; Mar. 4.
Machine for delivering newspapers and the like. V. A. Scott. 1,789,233; Mar. 4.
Machine for intelligence tests. S. L. Pressey. 1,749,226; Mar. 4.
Machine for obtaining the fibers from fibrous plants. G. A. Lowry. 1,749,540; Mar. 4.
Magnesium, etc., from dolomite or magnesian limestone, Production of metallic. H. H. Dow and E. O. Barstow. 1,749,211; Mar. 4.
Magnet, Ammeter. J. Zubaty. 1,749,366; Mar. 4.
Mail and baggage, Mechanism for the automatic transfer of. C. N. Phelps. 1,749,608; Mar. 4.
Map-exhibiting apparatus for motor vehicles, Road-. W. L. Eglinton. 1,749,243; Mar. 4.
Materials, Testing. E. E. Blankenstein and C. M. Coulter. 1,748,969; Mar. 4.
Measuring device. H. S. Albrecht. 1,749,056; Mar. 4.
Mercury-bromin derivative of fluorescein. W. L. Vogel. 1,749,201; Mar. 4.
Metal bodies, Apparatus for the continuous treatment of. M. Fourment. 1,749,700; Mar. 4.
Metal panels and the like, Apparatus for forming flanged openings in sheet-. R. E. Hansen and O. J. Groehn. 1,749,184; Mar. 4.
Metal, Rolling. W. T. Miller. 1,749,671; Mar. 4.
Metal sheets, Separating adhering rolled. E. Hinderer. 1,749,075; Mar. 4.
Metals, Protection of readily-oxidizable. G. Michel. 1,749,713; Mar. 4.
Meter. F. C. Bisbee. 1,749,015; Mar. 4.
Meter. W. H. Edwards. 1,749,023; Mar. 4.
Meter. E. W. Niles. 1,749,044; Mar. 4.
Meters, Integrating and recording device for fluid. J. R. Armstrong. 1,749,094; Mar. 4.
Milk product, Self-preserving. T. O'Connor. 1,749,153; Mar. 4.
Milling-machine organization. F. A. Parsons. 1,749,225; Mar. 4.
Minerals separation, Apparatus and process for. J. Bland. 1,749,371; Mar. 4.
Minerals, Treating siliceous. A. J. Moxham. 1,748,989; Mar. 4.

Mine skips, Apparatus for tipping traveling. W. Rawling, J. B. Marshall, and J. Rumford. 1,749,354; Mar. 4.
Mining machine. E. J. Doberstein. 1,749,069; Mar. 4.
Mixer: *See*—
Fuel mixer.
Moisture in aggregate, Determining. R. E. Robb. 1,749,606; Mar. 4.
Mold pattern. F. W. Tickner and J. Thomas. 1,749,454; Mar. 4.
Molding, Process and apparatus for. S. Flam. 1,749,213; Mar. 4.
Motor: *See*—
Water motor.
Motor-indicating system. E. A. Rockwell. Re17,616; Mar. 4.
Motors, Controller for electric. W. R. Milburn. 1,749,389; Mar. 4.
Mower, Motor-driven lawn. P. E. Mack. 1,749,189; Mar. 4.
Multiplex bag. W. L. Taylor. 1,749,005; Mar. 4.
Music-leaf turner. N. O. Bozelle. 1,749,273; Mar. 4.
Musical instruments, Expression device for automatic. T. F. Cheek. 1,749,415; Mar. 4.
Necktie-lining fabric. E. K. Frank. 1,749,634; Mar. 4.
No-baste clamp. E. K. Engh. 1,749,330; Mar. 4.
Nonfreezing device for automobiles. R. Hill. 1,749,286; Mar. 4.
Nonslipping device. R. S. Blair. 1,749,207; Mar. 4.
Nut, Lock. C. G. Olson. 1,749,600; Mar. 4.
Oil, Apparatus for treating used lubricating. R. M. Dilworth and F. G. Niece. 1,749,671; Mar. 4.
Oil burner. L. D. Houlis. 1,749,248; Mar. 4.
Oil burner. H. S. Pierce. 1,748,991; Mar. 4.
Oil burner. B. J. Tidy. 1,749,401; Mar. 4.
Oil conversion, Vapor phase method of. C. R. Wagner. 1,749,521; Mar. 4.
Oiler, Loose-pulley. R. E. Ries and F. R. Koverman. 1,749,605; Mar. 4.
Oiling system for gears. F. W. Kennedy. 1,749,077; Mar. 4.
Oils, Device for gassifying heavy. J. W. Ingleton. 1,749,031; Mar. 4.
1-phenyl benzanthrone compounds, Producing. W. Trautner, B. Stein, and R. Berliner. 1,749,519; Mar. 4.
Optical system for use in photographic color processes. C. W. Frederick. 1,749,278; Mar. 4.
Orchard protective system. J. D. R. De Land. 1,749,068; Mar. 4.
Ornament, Wall. E. G. Williams. Des. 80,654; Mar. 4.
Packer, Bottom hole. C. W. Fisher. 1,749,033; Mar. 4.
Packing for making fluid-tight joints between parts of engines or machines having relative movement. G. W. Beldam and J. Smith. 1,749,659; Mar. 4.
Pan: *See*—
Frying pan.
Pan and method of baking, Baking. E. Kussa and W. E. Long. 1,749,433; Mar. 4.
Panel board, Instrument. J. R. Padesky. 1,749,353; Mar. 4.
Paper, Safety. C. Nagel. Des. 80,631; Mar. 4.
Particles from flue gases, Device for removing solid. M. Prétot and F. Ullmann. 1,749,260; Mar. 4.
Pasteuriser. G. J. Meyer. 1,749,150; Mar. 4.
Pasteurizing apparatus. C. Mortensen. 1,749,257; Mar. 4.
Pattern: *See*—
Mold pattern.
Paving compositions, Preparing bituminous. E. C. Wallace. 1,749,651; Mar. 4.
Pedal means for automatic pianos and the like. F. Volare. 1,749,403; Mar. 4.
Pen and pencil clip. H. Esterow. Des. 80,609; Mar. 4.
Pencil or similar article. H. R. and A. A. Thomas. Des. 80,645–6; Mar. 4.
Petroleum, Apparatus for treating crude. G. A. Stafford and C. D. Cook. 1,749,235; Mar. 4.
Phonograph, Electric. C. F. Goudy. 1,749,072; Mar. 4.
Picture apparatus, Talking-. T. W. Case. 1,749,412; Mar. 4.
Picture-projecting apparatus, Motion-. J. Proksa. 1,749,394; Mar. 4.
Picture-projecting machine, Motion-. T. A. Killman. 1,749,140; Mar. 4.
Pile fabric. J. P. Stroud. 1,749,551; Mar. 4.
Pin: *See*—
Piston pin.
Pipe clamp. C. Harter. 1,749,135; Mar. 4.
Pipe for smoking tobacco. F. M. Ashley. 1,749,308; Mar. 4.
Piston engine, Opposed-. H. Ford. 1,749,578; Mar. 4.
Piston pin. W. E. Fennel, jr. 1,749,024; Mar. 4.
Pit, Mushroom. R. W. Griswold. 1,149,184; Mar. 4.
Pivot joint. R. Beringer. 1,749,311; Mar. 4.
Planters, Attachment for seed. R. M. Jackson. 1,749,250; Mar. 4.
Plaster board. C. O. Walper. 1,749,009; Mar. 4.
Plaster board, Apparatus for making. A. J. Meier. 1,749,436; Mar. 4.
Plow. P. C. Figueras. 1,749,277; Mar. 4.
Plow, Gang. T. Brown. 1,749,064; Mar. 4.
Plug attachment. A. G. Zinman. 1,749,623; Mar. 4.
Plug retainer. F. W. Jackson. 1,749,287; Mar. 4.
Porous products, Making. J. A. Rice. 1,749,506; Mar. 4.
Post: *See*—
Fence post.
Posting machine, Debit and credit. H. A. Foothorap. 1,749,477; Mar. 4.
Power plant with closed feed system, Steam. C. R. Lang. 1,749,707; Mar. 4.
Press: *See*—
Filter press. Printing press.
Friction-clutch-driven press. Punch press.
Punching press.
Press. B. Rollman. 1,749,509; Mar. 4.
Presses and folders, Drive for unit. J. A. Isbell. 1,749,346; Mar. 4.
Pressing machine. S. T. Hart. Re17,619; Mar. 4.
Pressure-gauging apparatus. C. Wales. 1,749,007; Mar. 4.
Printing machines, Sheet-insetting mechanism for rotary multiple-web. E. T. Morris. 1,748,988; Mar. 4.
Printing press. C. Dean. 1,749,470; Mar. 4.
Processing machines, Material-handling apparatus for. J. D. Feeney. 1,748,978; Mar. 4.
Protective device, Electrical. A. J. A. Peterson. 1,749,602; Mar. 4.
Pulley block. H. Sleeman. 1,749,515; Mar. 4.
Pump. E. Cowles. 1,749,328; Mar. 4.
Pump. T. Elliott. 1,149,212; Mar. 4.
Pump. A. S. Weldy. 1,749,682; Mar. 4.
Pump, Double-acting. D. H. Goldman. 1,749,216; Mar. 4.
Pump, Rotary. L. P. Barlow. 1,749,068; Mar. 4.
Pump, Rotary. L. P. Barlow. 1,749,121; Mar. 4.
Pump unit. J. D. Langdon. 1,749,088; Mar. 4.
Pumps, Accelerating means for fuel. J. Zubaty. 1,749,367; Mar. 4.
Pumps, Calibrating mechanism for positive stops for visible. W. H. Marsh. 1,749,106; Mar. 4.
Punch press. E. P. Pierce. 1,749,545; Mar. 4.
Punch-press feed, Automatic. E. M. Pierce. 1,749,505; Mar. 4.
Punching press. R. W. Strout. 1,749,398; Mar. 4.
Rack: *See*—
Display rack. Garment rack.
Radiator cap, Ornamental. R. Marangino. 1,749,221; Mar. 4.
Radiators, Apparatus for forming. J. Karmasin. 1,749,383; Mar. 4.
Radiocabinet or similar article. E. Worthington. Des. 80,655; Mar. 4.
Radiocabinets and loud-speakers, Grille front for. C. T. Majer. Des. 80,629; Mar. 4.
Radioreceiver. W. H. Kitto. 1,749,102; Mar. 4.
Radio receiver control. J. Weinberger. Des. 80,650–1; Mar. 4.
Radio receiving apparatus. S. Weisberg. 1,749,364; Mar. 4.
Radio system, Directional. F. A. Kolster. 1,749,348; Mar. 4.
Raft or boat. H. Meyer. 1,749,711; Mar. 4.
Railway gate, Automatic. A. Widuch, S. Hayduk, and W. Sliwa. 1,749,053; Mar. 4.
Railway-truck bolster. T. H. Symington and P. R. Drenning. 1,749,679; Mar. 4.
Razor handle, Safety-. J. A. D. Watt. 1,749,051; Mar. 4.
Receptacle. D. H. Zell. 1,749,655; Mar. 4.
Record device. E. Carlson. 1,749,208; Mar. 4.
Recording and advertising device. F. Widoe. 1,749,619; Mar. 4.
Rectifier. J. Slepian. 1,749,549; Mar. 4.
Reflector signal. J. A. Werts. 1,749,405; Mar. 4.
Refrigeration. D. B. Knight. 1,748,957; Mar. 4.
Refrigerator. J. C. Staton. Des. 80,641; Mar. 4.
Refrigerator and ice-cream cabinet, Combined. C. G. Juneau and W. C. Marshall. 1,749,484; Mar. 4.
Register: *See*—
Typewriter word register.
Relay. L. N. Crichton. 1,749,566; Mar. 4.
Relay, Polar neutral. O. S. Field. 1,749,331; Mar. 4.
Relay system. S. L. Goldsborough. 1,749,531–2; Mar. 4.
Resistor. T. C. Browne. 1,749,661–2; Mar. 4.
Retrograde movement, Device to prevent. W. Lavery. 1,749,638; Mar. 4.
Rim and its cooperating felly, Demountable. F. W. Schmidt. 1,749,358; Mar. 4.
Ring for turbine bearings, Oil-sealing. J. F. Johnson. 1,749,586; Mar. 4.
Ring or article of similar nature, Finger. E. J. Gross. Des. 80,621–2; Mar. 4.
Rock drill, Valveless. L. W. Greve. 1,748,953; Mar. 4.
Rod: *See*—
Gauge rod.
Roll table. L. Johnson. 1,749,481; Mar. 4.
Roller: *See*—
Asphalt roller.
Rolls, Grinding or polishing. J. D. Williams. 1,749,457; Mar. 4.
Rolls, Preserving form. J. P. Catlin. 1,749,316; Mar. 4.
Roof structure. J. C. M. Des Islets. 1,749,473; Mar. 4.
Roofing and forming the same. W. A. Harris. 1,748,981; Mar. 4.
Rope structure. H. M. Wall and W. Reiner. 1,749,171; Mar. 4.
Rotary shears. L. Iversen. 1,749,480; Mar. 4.
Rotator, Sucker-rod. C. Stevens. 1,749,722; Mar. 4.
Rubber, Dispersing. R. P. Rose and H. E. Cude. 1,749,608; Mar. 4.
Rubbers, Dispersing reclaimed. R. P. Rose and H. E. Cude. 1,749,607; Mar. 4.
Safety device. S. R. Brown. 1,749,063; Mar. 4.
Safety device for paper cutters. A. T. Moyer. 1,749,296; Mar. 4.

Safety lock, Electric-circuit. A. B. Esseltine. 1,749,070; Mar. 4.
Safety lock, Electric-circuit. W. W. Sloane. 1,749,091; Mar. 4.
Sand molds, Drying. R. Sculthorpe. 1,749,448; Mar. 4.
Sandpapering machine. H. A. Loveland. 1,749,709; Mar. 4.
Sash-operating mechanism. A. J. Zwiersina. 1,749,555; Mar. 4.
Sawmill carriage. G. M. Pelton. 1,749,109–110; Mar. 4.
Sawmill dogging means. G. M. Pelton. 1,749,108; Mar. 4.
Scale, Automatic. H. A. Hadley. 1,749,747; Mar. 4.
Scale, Automatic recording. L. A. Osgood and E. E. Wolf. 1,749,192; Mar. 4.
Scale, Laundry-bag. G. Guldbrandsen. 1,749,746; Mar. 4.
Scale-platform clearer. L. W., W. A., and G. H. Northfield. 1,749,599; Mar. 4.
Score indicator, Bridge-. H. R. and A. A. Thomas. Des. 80,644; Mar. 4.
Scraper. L. P. Green. 1,749,741; Mar. 4.
Screen for airplane platforms, Wind. R. Gibbons. 1,749,338; Mar. 4.
Screens, Tension bar and guide for roll. C. Traut. 1,749,199; Mar. 4.
Screw. J. Neiger. 1,749,043; Mar. 4.
Sealing machine, Multiple-head. M. Jaeger. 1,749,347; Mar. 4.
Sealing means for perforated container caps. G. H. Glitzke. 1,749,215; Mar. 4.
Seat: *See*—
Car seat.
Seeds and composition therefor, Disinfecting. M. Engelmann. 1,749,575; Mar. 4.
Selective system and apparatus. E. E. Kleinschmidt. 1,749,142; Mar. 4.
Separator: *See*—
Centrifugal separator. Smoke separator.
Service indicator. J. Zubaty. 1,749,365; Mar. 4.
Serving apparatus. H. L. Blood. 1,748,970; Mar. 4.
Serving apparatus. L. O. Reichelt and J. J. Rohloff. 1,748,995; Mar. 4.
Settee. L. Bernhard. Des. 80,599; Mar. 4.
Settee. L. Bernhard. Des. 80,601; Mar. 4.
Settee or similar article. C. Stoll. Des. 80,642; Mar. 4.
Sewage control for moving vehicles. O. A. Ross. 1,749,356; Mar. 4.
Sewing machine. S. Wechsler. 1,749,118; Mar. 4.
Sewing machines, Centralizing mechanism for. H. C. Miller. 1,749,044; Mar. 4.
Sewing machines, Presser-foot mechanism for. W. A. Feigel. 1,749,529; Mar. 4.
Shackle for cantilever spring suspensions, Nonmetallic. H. D. Geyer. 1,749,335; Mar. 4.
Shade or blind. A. Amrein. 1,749,556; Mar. 4.
Shade, Window. G. G. Mott. 1,749,223; Mar. 4.
Shaker, Grate. H. C. Woodbridge. 1,749,458; Mar. 4.
Sharpener, Knife. F. Pass. 1,749,442; Mar. 4.
Sharpener, Lawn-mower. J. D. Snow. 1,749,306; Mar. 4.
Shears: *See*—
Rotary shears.
Sheet, Transparent. M. Gentile. 1,748,949; Mar. 4.
Sheeting and method of making, Composite. G. A. Richter. 1,748,998; Mar. 4.
Shield, Face. R. E. Walker. 1,749,050; Mar. 4.
Shield, Glare. C. Ebret. 1,749,181; Mar. 4.
Shims, Apparatus for assembling. I. B. Winslow. 1,749,620; Mar. 4.
Ship propulsion. P. F. Riley. 1,749,087; Mar. 4.
Ships, Propelling. F. W. Gay. 1,749,071; Mar. 4.
Shock absorber. M. C. Krarup. 1,749,590; Mar. 4.
Shock absorber. F. H. Royce. 1,749,609; Mar. 4.
Shoe. R. F. McCarthy. 1,749,084; Mar. 4.
Shoe. A. Perugia. Des. 80,632; Mar. 4.
Shovel attachment for vehicles, Snow-. L. Caskin. 1,749,465; Mar. 4.
Shower bath, Built-up. J. C. Cromwell. 1,749,275; Mar. 4.
Shutter for motion-picture projectors and cameras. A. M. O'Hagen. 1,749,154; Mar. 4.
Sign device. A. R. Bloom. 1,749,062; Mar. 4.
Signal: *See*—
Reflector signal. Vehicle signal.
Traffic signal. Warning signal.
Turn signal.
Signal. P. J. Rooney. 1,749,263; Mar. 4.
Signal system. F. B. Rae. 1,749,444; Mar. 4.
Signaling device. A. F. Hartman. Des. 80,623; Mar. 4.
Signaling device. R. K. Lee. 1,749,434; Mar. 4.
Signaling system. H. Nyquist and K. W. Pfleger. 1,749,045; Mar. 4.
Signaling system, Course-. E. W. Swartwout. 1,749,169; Mar. 4.
Sinker, Floating. J. W. Bond. 1,749,464; Mar. 4.
Skate, Ice. M. J. Orafalk. 1,749,298; Mar. 4.
Skate, Roller. P. N. Joslin. 1,749,139; Mar. 4.
Skid. C. H. Young. 1,749,270; Mar. 4.
Slab construction. T. Barbato. 1,749,524; Mar. 4.
Slack adjuster. C. A. Campbell. 1,749,018; Mar. 4.
Sleeve form. W. A. Finkel. 1,749,032; Mar. 4.
Slicing machine. W. P. van Lammeren. 1,749,402; Mar. 4.
Slitting machines, Separator for. J. A. White. 1,749,618; Mar. 4.
Slug catcher or yarn cleaner. G. S. Beckman. 1,749,461; Mar. 4.
Slug or bunch catcher. T. J. Sands. 1,749,511; Mar. 4.
Smoke box and stack. W. F. Kiesel, jr. 1,749,487; Mar. 4.
Smoke consumer. J. W. Hulson. 1,749,028; Mar. 4.
Smoke separator. H. C. Lyons. 1,749,594; Mar. 4.
Snowplow. A. P. Jensen. 1,749,481; Mar. 4.
Sofa. L. Bernhard. Des. 80,600; Mar. 4.
Soldering contact points. M. M. Austin and L. R. J. Warner. 1,748,958; Mar. 4.
Soldering device. J. F. Schylander. 1,749,512; Mar. 4.
Soldering iron. J. F. Schylander. 1,749,396; Mar. 4.
Soldering machine, Electric. C. Reiter and M. Stiger. 1,749,719; Mar. 4.
Soldering machine, Electric. D. K. Wright. 1,749,684; Mar. 4.
Solids from liquids, Apparatus for separating. A. L. Armentrout. 1,749,057; Mar. 4.
Sound into electrical energy, Apparatus for transforming. H. C. Hayes. 1,749,284–5; Mar. 4.
Sound producing and controlling system. R. J. Pomeroy. 1,749,301; Mar. 4.
Sounds, Generation and synthesis of. R. Zouckermann. 1,749,685; Mar. 4.
Spear, Bailer. F. J. Hinderliter. 1,749,380; Mar. 4.
Speed-regulating device. M. L. Strawn. 1,749,004; Mar. 4.
Speed regulation of rotating bodies, Apparatus for. W. Scheppmann and A. Eulenhöfer. 1,749,304; Mar. 4.
Speed regulator and method of speed regulation. L. de Flores. 1,749,569; Mar. 4.
Spinning mules, spinning frames, and preparatory machines, Drawing device for. J. Pfimlin. 1,749,156; Mar. 4.
Splice for poles for scaffolding. F. G. Kingston. 1,749,637; Mar. 4.
Spout, Pouring. L. Lévy. 1,749,253; Mar. 4.
Spring device. J. Weichsel. 1,749,117; Mar. 4.
Spring retainer. J. R. Warren. 1,749,562; Mar. 4.
Sprinkler head. H. G. Carlson. 1,749,627; Mar. 4.
Spur, Novelty. G. C. Welter. Des. 80,653; Mar. 4.
Stabilizer for vehicles. H. E. Weber. 1,749,617; Mar. 4.
Stairway, Movable. F. E. Bessler. 1,749,400; Mar. 4.
Stamping machine, Automatic box-. E. E. Evans. 1,749,698; Mar. 4.
Stapling machine. J. B. Crofoot. 1,749,466; Mar. 4.
Starter, Engine. W. A. Chryst. 1,749,320; Mar. 4.
Starter, Engine. W. A. Chryst and G. W. Elsey. 1,749,321; Mar. 4.
Starting device for tractor engines. L. Neas. 1,749,645; Mar. 4.
Starting mechanism for internal-combustion engines. F. Müller. 1,749,152; Mar. 4.
Steaming iron. R. Leprestre. 1,749,639; Mar. 4.
Steels, Manufacture of alloy. A. D. Shankland. 1,749,678; Mar. 4.
Stencil sheets for use in duplicating, Production of. A. de Waele. 1,749,241; Mar. 4.
Stereoscope. H. Lüscher. 1,749,220; Mar. 4.
Stoker, Locomotive. N. M. Lower and B. A. Turner. 1,749,041; Mar. 4.
Stop, Automatic. D. E. Washington. 1,749,172; Mar. 4.
Stop for vehicles, Safety. R. B. Burton. 1,749,066; Mar. 4.
Storage heater, Electric. G. S. Tune. 1,749,115; Mar. 4.
Store front. J. Ellis. Des. 80,608; Mar. 4.
Stove, Chicken-brooder. L. Maddalena. 1,749,710; Mar. 4.
Stove construction, Vapor-. A. J. Yeager. 1,749,174; Mar. 4.
Straining device for vacuum drying apparatus. A. E. Jonsson. 1,748,955; Mar. 4.
Structural building. L. W. Ray. 1,749,648; Mar. 4.
Suction and blower device, Combined. A. A. Breuer. 1,749,378; Mar. 4.
Suction cleaner. H. E. Hoover. Re17,615; Mar. 4.
Sulphatising roast, Two-step. F. A. Brinker. 1,749,125; Mar. 4.
Sulphonation products from polymerised fats or oils or the acids thereof, Obtaining. H. Bertsch. 1,749,463; Mar. 4.
Support and coat hanger, Combined hat. S. A. Thomas. Des. 80,648; Mar. 4.
Support, Barricade. H. C. McGregor. 1,749,190; Mar. 4.
Support, Combined mirror and hat. S. A. Thomas. Des. 80,647; Mar. 4.
Support, Conductor. M. W. Cooke. 1,749,209; Mar. 4.
Support, Conduit. A. Uhl and P. E. Brickie. 1,749,725; Mar. 4.
Support, Curtain and valance or lambrequin. G. R. Streich. 1,749,450; Mar. 4.
Support for fountain-pen holders. D. J. Lafrance. 1,749,037; Mar. 4.
Support for garden hose, Nozzle. A. M. Rasmussen. 1,749,302; Mar. 4.
Support, Hernia. H. V. Barclay. 1,748,989; Mar. 4.
Support, Shaft-centering. L. C. Goad. 1,749,339; Mar. 4.
Swift. R. R. Alderman. 1,749,460; Mar. 4.
Switch: *See*—
Control switch. High-tension switch.
Electric switch.
Switch. N. J. Conrad. Re17,611; Mar. 4.
Switch. J. J. Hogan. 1,749,556; Mar. 4.
Switch apparatus. R. Keller. 1,749,530; Mar. 4.
Switch mechanism. J. M. Brown. 1,749,560; Mar. 4.
Switch mechanism. G. H. Hart. 1,749,283; Mar. 4.
Switch-stand lock. P. Swanson. 1,749,198; Mar. 4.

Switch structure, Temperature-control. A. Penn. 1,749,292; Mar. 4.
Switch throw or keeper. A. Galey. 1,749,478; Mar. 4.
Swivel, Electric. E. B. Goucher and R. B. Cummings. 1,749,702; Mar. 4.
Table: *See*—
Roll table.
Tag, Identification key. R. H. Thayer. 1,749,400; Mar. 4.
Tag, Key. R. H. Thayer. 1,749,399; Mar. 4.
Take-off motion for weaving machines, Automatic. J. Lucas. 1,749,349; Mar. 4.
Tank: *See*—
Agitator dip tank. Fuel-burning tank.
Tank indicator. C. A. de Giers. 1,749,419; Mar. 4.
Tanks, Safety device for. A. Davis, jr. 1,749,179; Mar. 4.
Tap. J. H. Smith. 1,748,963; Mar. 4.
Telegraph alarm system, Carrier-. V. P. Thorp and W. T. Rea. 1,749,048; Mar. 4.
Telegraph system, Multiplex. H. H. Haglund. 1,749,735; Mar. 4.
Telephone. L. J. Loeffler. 1,749,593; Mar. 4.
Telephone and telegraph circuits. J. W. Cook. 1,749,416; Mar. 4.
Telephone-receiver mounting. K. Kodama. 1,749,289; Mar. 4.
Telephone trunking system. J. Wicks. 1,748,966; Mar. 4.
Tentering machines. A. O. Hurxthal. 1,749,584; Mar. 4.
Testing device, Spark-plug-. W. N. Clouse. 1,749,664; Mar. 4.
Testing machine. S. N. Senna. 1,749,265; Mar. 4.
Theatrical impressions, Method of and apparatus for presenting. J. H. Leavell. 1,749,187; Mar. 4.
Thrashing machines, Stripping finger adjustment for. C. R. Livermon. 1,749,040; Mar. 4.
Thread protector. H. D. Scott. 1,749,162; Mar. 4.
Tire casings, Manufacturing. B. Hopkinson. Re17,618; Mar. 4.
Toilet article. C. N. Coryell. 1,749,565; Mar. 4.
Tool, Cleat-forming. C. W. Stransky. 1,749,517; Mar. 4.
Tool, Fire-fighting. J. C. Kortick. 1,749,103; Mar. 4.
Tool, Fishing. A. O. Hamblen. 1,748,980; Mar. 4.
Tool, Garden. G. E. Bellah. 1,749,271; Mar. 4.
Tool, Machine. E. P. Bullard, jr. 1,749,374; Mar. 4.
Tool, Rod-bending. C. G. Fillmore. 1,749,476; Mar. 4.
Tool, Striping. V. M. Dirkes and G. L. Terna. 1,749,326; Mar. 4.
Tongs for sugar, candy, etc. G. M. Sorensen. 1,749,614; Mar. 4.
Torque cushioning mechanism. G. C. Carhart. 1,749,315; Mar. 4.
Towel, Combination bath. P. Helberg. 1,749,100; Mar. 4.
Toy sewing machine. H. E. Tants. 1,749,114; Mar. 4.
Toy target. F. T. Baum. 1,749,689; Mar. 4.
Toy telephone. B. F. Schuchman. 1,749,447; Mar. 4.
Toy vehicles, Truck for. J. C. Koerber. 1,749,384; Mar. 4.
Tractor. L. W. Witry. 1,749,202; Mar. 4.
Traffic-controlling apparatus, Railway-. R. A. McCann. 1,749,082; Mar. 4.
Traffic signal. O. C. Matthews and D. F. Malcom. 1,749,287; Mar. 4.
Traffic signal. A. O. Olafson. 1,749,890; Mar. 4.
Trailer, Pole. D. H. Davis and L. E. Williams. 1,748,976; Mar. 4.
Trailers, Articulated tongue for. L. B. Williams. 1,748,967; Mar. 4.
Train control, Automatic. P. J. Simmen. 1,749,284; Mar. 4.
Transformer. A. Meyerhans. 1,749,888; Mar. 4.
Transformer-supporting structure. R. J. Le Blond. 1,749,252; Mar. 4.
Transmission. H. Ford. 1,749,099; Mar. 4.
Transmission system, Carrier-wave telegraphic. W. G. Fluharty. 1,749,739; Mar. 4.
Trap: *See*—
Animal trap.
Tray and cigarette-package container, Combined ash. J. A. Dann. 1,749,467; Mar. 4.
Tray or similar article. J. C. Kelly. Des. 80,625; Mar. 4.
Tray or similar article, Ash. A. von Frankenberg. Des. 80,640; Mar. 4.
Tree, Artificial. A. Blasic. 1,749,097; Mar. 4.
Triodes, Protective system for. R. L. Davis. 1,749,568; Mar. 4.
Truck. C. M. Medairy. 1,749,107; Mar. 4.
Truck construction, Six-wheel-. C. L. Orr. 1,749,715; Mar. 4.
Truck, Delivery. E. R. Whitney. Re17,610; Mar. 4.
Truck train, Dumping-. R. H. Crisler. 1,749,274; Mar. 4.
Tube transmitter, Externally-controlled. F. Trautwein. 1,749,269; Mar. 4.
Tubing, Method of and apparatus for making. H. R. Boals. 1,749,016; Mar. 4.
Tumbler or similar article. E. E. Bartlett. Des. 80,596; Mar. 4.
Turbine blading and lashing therefor. H. R. Stevenson. 1,749,449; Mar. 4.
Turn signal. L. M. Bearland. 1,749,690; Mar. 4.
Tying device. E. P. Gummo. 1,749,280; Mar. 4.
Typewriter word register. L. M. Llorens. 1,749,079; Mar. 4.
Typewriting machine. E. E. Barney. 1,748,968; Mar. 4.
Typewriting machine. J. A. B. Smith. 1,749,550; Mar. 4.
Umbrella construction. C. H. Venner, jr. 1,749,363; Mar. 4.
Undercarriage or landing wheels of aeroplanes and like aircraft, Braking of the. M. C. MacPherson. 1,749,495; Mar. 4.
Universal joint. W. A. Chryst. 1,749,322; Mar. 4.
Upholstered chair. L. Bernhard. Des. 80,602; Mar. 4.
Urinal for automobiles and other vehicles. R. Kovacs. 1,749,104; Mar. 4.
Vacuum-tube system. D. G. Little. 1,749,592; Mar. 4.
Valve. W. G. Wilson. 1,749,119; Mar. 4.
Valve-controlling apparatus. J. O. Woodsome. 1,749,406; Mar. 4.
Valve, Electric. A. N. Fenton. 1,749,423; Mar. 4.
Valve engine, Single-sleeve-. E. L. Gilbert. 1,749,701; Mar. 4.
Valve, Fluid-actuated. R. Drath. 1,749,695; Mar. 4.
Valve for drainage systems, Back-pressure. E. W. N. Boosey. 1,749,098; Mar. 4.
Valve for gas ranges. F. J. Lieske. 1,749,290; Mar. 4.
Valve mechanism for internal-combustion engines. M. G. Masters. 1,749,496; Mar. 4.
Valve-operating device. D. M. Belcher. 1,749,810; Mar. 4.
Valve-reseating apparatus. J. Y. Scott. 1,749,514; Mar. 4.
Vanity case. D. H. Zell. 1,749,656–7; Mar. 4.
Vaporizer for hydrocarbon engines. J. W. Ingleton. 1,749,029; Mar. 4.
Vaporizer for internal-combustion engines. J. W. Ingleton. 1,749,035; Mar. 4.
Vehicle fender, Motor-. H. T. Thomas. 1,749,453; Mar. 4.
Vehicle signal. F. W. Schroeder. 1,749,305; Mar. 4.
Vehicle signal. E. W. Swartwout. 1,749,168; Mar. 4.
Vehicles, Attachment for motor. F. C. Goldsmith. 1,749,027; Mar. 4.
Vehicles, Storage and handling of motor. R. Craig. 1,749,324; Mar. 4.
Vending machine. H. Giles. 1,749,579; Mar. 4.
Vending machines and the like, Coin-controlled operating mechanism for. V. A. Scott. 1,749,195; Mar. 4.
Ventilator: *See*—
Window ventilator.
Waffle iron, Electrically-heated. G. F. Wells. 1,749,173; Mar. 4.
Waffle machine, Automatic. C. O. Christianson. 1,749,414; Mar. 4.
Waist garment, Sanitary. A. Fridolph. 1,749,333; Mar. 4.
Warning signal. R. M. Critchfield. 1,749,325; Mar. 4.
Washing apparatus, Coal-. J. A. McQuail. 1,749,350; Mar. 4.
Washing machines, Ice-cream-freezing attachment for. C. E. Cole and B. W. McGinnis. 1,749,067; Mar. 4.
Water-closet. J. De Rose. 1,749,570; Mar. 4.
Water cooler. V. T. Schmitt. 1,749,194; Mar. 4.
Water heater, Boiler-feed-. J. N. and S. L. Wyndham. 1,749,654; Mar. 4.
Water motor. T. T. Randmets. 1,749,506; Mar. 4.
Water softener. C. P. Eisenhauer. 1,749,422; Mar. 4.
Water-softening apparatus. C. B. Yount. 1,749,622; Mar. 4.
Web-cutting mechanism. H. Reynolds. 1,749,546; Mar. 4.
Weighting of silk. A. Feubel. 1,749,699; Mar. 4.
Welding of magnesium and its alloys, Autogenous. G. Michel. 1,749,712; Mar. 4.
Welding system, Arc. B. B. Brickey and A. S. Kalemboro. 1,749,128; Mar. 4.
Well-flowing device, Automatic. A. Boynton. 1,749,124; Mar. 4.
Wheel-aligning gauge. L. G. Taylor. 1,749,268; Mar. 4.
Wheel construction, Cushioned-. A. Wichert. 1,749,554; Mar. 4.
Wheel structure. H. P. Nielsen. 1,749,502; Mar. 4.
Winding machines, Traversing means for. F. A. Reece. 1,749,355; Mar. 4.
Window. J. H. Fennessy. 1,749,666; Mar. 4.
Window, Metal. A. M. Lane. 1,748,986; Mar. 4.
Window ventilator. F. M. Andres. 1,749,093; Mar. 4.
Window, Vertically-slidable inwardly-swinging. J. G. Kramer. 1,749,589; Mar. 4.
Windshield cleaner. E. A. Turner. 1,749,049; Mar. 4.
Windshield-cleaner mounting. J. R. Oishei. 1,749,441; Mar. 4.
Wood-fiber tissue and preparing same, Mercerised. M. O. Schur and R. H. Rasch. 1,749,003; Mar. 4.
Wool and the wool thus treated, Treating. C. A. Brown and G. J. Esselen, jr. 1,749,410; Mar. 4.
Wrapping machine, Brick-. J. J. Schloesser. 1,749,548; Mar. 4.
Wrench. J. J. Schneider and B. Nester. 1,749,002; Mar. 4.
Zinciferous materials containing lead, Reducing. E. H. Bunce and G. T. Mahler. 1,749,127; Mar. 4.
Zinciferous materials, Reducing. E. H. Bunce and G. T. Mahler. 1,749,126; Mar. 4.

CLASSIFICATION OF PATENTS

ISSUED MARCH 4, 1930

NOTE—First number=class, second number=subclass, third number=patent number.

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188: 1,748,980
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223— 18. 2: 1,749,032
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230— 117: 1,749,373
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232— 4: 1,749,655
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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Acme Brick Company, Danville, Ill. Brick. 268,435; Mar. 11. Class 12.

Aderer, Julius, Inc., New York, N. Y. Casting gold for dentists' use. 268,272; Mar. 11; Serial No. 292,023; published Dec. 24, 1929. Class 44.

Allan & Co., Inc., St. Louis, Mo. Medicinal tonic. 268,110; Mar. 11; Serial No. 291,753; published Dec. 24, 1929. Class 6.

Allaway, Elmer A., Sioux City, Iowa. Hair tonic. 268,230; Mar. 11; Serial No. 288,852; published Dec. 24, 1929. Class 6.

Allbright-Nell Company, The, Chicago, Ill. Parcels of lard. 268,185; Mar. 11; Serial No. 291,652; published Dec. 24, 1929. Class 46.

Altorfer Bros. Company, East Peoria, Ill. Laundry washing machines. 268,399; Mar. 11; Serial No. 292,193; published Dec. 31, 1929. Class 24.

Amalgamated Paint Company, New York, N. Y. Varnishes. 268,227; Mar. 11; Serial No. 289,779; published Dec. 17, 1929. Class 16.

American Beauty Coupon Company, St. Louis, Mo. Trading coupons. 268,314; Mar. 11; Serial No. 291,653; published Dec. 24, 1929. Class 38.

American Can Company, New York, N. Y. Cans. 268,305; Mar. 11; Serial No. 279,256; published Dec. 31, 1929. Class 2.

American Candy Company. (See Layman, Bertha M.)

American Grocery Company, Hoboken, N. J. Coffee, tea, cocoa, etc. 268,293; Mar. 11; Serial No. 282,089; published Dec. 17, 1929. Class 46.

American Hardware Corporation, The. (See Russell & Erwin Manufacturing Company, assignor.)

American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Publication. 268,106; Mar. 11; Serial No. 292,385; published Dec. 24, 1929. Class 35.

American Optical Company, Southbridge, Mass. Ophthalmic mountings and parts therefor, eye protectors, etc. 268,217; Mar. 11; Serial No. 289,171; published Dec. 24, 1929. Class 26.

American Optical Company, Southbridge, Mass. Ophthalmic mountings, eye protectors, lenses, etc. 268,220; Mar. 11; Serial No. 287,786; published Dec. 24, 1929. Class 26.

Apex Manufacturing Corporation, Baltimore, Md. Razor blades. 268,136; Mar. 11; Serial No. 292,244; published Dec. 24, 1929. Class 28.

Appleton Car Mover Company, Inc. (See McLeish, Wm., assignor.)

Arco Company, The, Cleveland, Ohio. Polishing compound. 268,284; Mar. 11; Serial No. 291,108; published Dec. 24, 1929. Class 16.

Arctic Fuel Company, The, Des Moines, Iowa. Coal. 268,101; Mar. 11; Serial No. 287,826; published Dec. 3, 1929. Class 1.

Arlette, Inc., Louisville, Ky. Hair-waving pads. 268,279; Mar. 11; Serial No. 291,877; published Dec. 24, 1929. Class 44.

Armsby, J. K., Company, The, Chicago, Ill., and San Francisco, Calif., assignor to California Packing Corporation, San Francisco, Calif. Dried raisins. 77,402–3; renewed Apr. 5, 1930.

Ash Grove Lime & Portland Cement Co., Kansas City, Mo. Lime and cement. 78,926; renewed July 26, 1930.

Badger Rubber Works, The, Milwaukee and Cudahy, Wis. Tire and tube patches, repair kits, and belts. 268,122; Mar. 11; Serial No. 291,426; published Dec. 24, 1929. Class 35.

Badger Rubber Works, The, Milwaukee and Cudahy, Wis. Tire flaps, flap material, transmission discs, etc. 268,123; Mar. 11; Serial No. 291,427; published Dec. 24, 1929. Class 35.

Badger Rubber Works, The, Milwaukee and Cudahy, Wis. Vehicle tires and inner tubes. 268,124; Mar. 11; Serial No. 291,428; published Dec. 24, 1929. Class 35.

Badger Rubber Works, The, Milwaukee and Cudahy, Wis. Vehicle tires, inner tubes, and transmission discs. 268,126; Mar. 11; Serial No. 291,429; published Dec. 24, 1929. Class 35.

Baer Bros., New York, N. Y. Paints, enamels, etc. 76,826; renewed Feb. 15, 1930.

Bailey, Aubrey G., Norfolk, Va. Fresh oysters. 78,226; renewed May 31, 1930.

Baker, Oliver, Manufacturing Company, Minneapolis, Minn. Key cases constructed of leather, leatheroid, or fabric. 268,128; Mar. 11; Serial No. 291,471; published Dec. 24, 1929. Class 3.

Bamberger, L., & Co., Newark, N. J. Artificial and prepared flowers, braids, buttons, buckles, etc. 268,199; Mar. 11; Serial No. 290,295; published Dec. 3, 1929. Class 40.

Bamberger, L., & Co., Newark, N. J. Bed springs, mattresses, beds, etc. 268,261; Mar. 11; Serial No. 290,290; published Dec. 24, 1929. Class 32.

Bancroft, Whitney Company, San Francisco, Calif. Series of law books. 268,118; Mar. 11; Serial No. 292,024; published Dec. 24, 1929. Class 38.

Bankers Publishing Company, Milwaukee, Wis. Periodicals. 268,115; Mar. 11; Serial No. 291,864; published Dec. 24, 1929. Class 38.

Barium Reduction Corporation, Charleston, W. Va. Sodium sulphide. 268,426; Mar. 11; Serial No. 273,619; published Dec. 24, 1929. Class 6.

Barker Bros. Incorporated, Los Angeles, Calif. Beds, bed panels, dressers, etc. 268,125; Mar. 11; Serial No. 291,432; published Dec. 24, 1929. Class 32.

Barker Bros. Incorporated, Los Angeles, Calif. Household and office furniture. 268,267; Mar. 11; Serial No. 290,808; published Dec. 24, 1929. Class 32.

Barnes, Bertram C., doing business as Barnes Baking Co., Seattle, Wash. Bread. 268,139; Mar. 11; Serial No. 292,849; published Dec. 24, 1929. Class 46.

Bauer, Jack, New York, N. Y. Magazines. 268,207; Mar. 11; Serial No. 288,580; published Dec. 24, 1929. Class 38.

Bell Syndicate, Inc., The, New York, N. Y. Strips of humorous drawings. 268,332; Mar. 11; Serial No. 290,933; published Dec. 17, 1929. Class 38.

Bender, Matthew, & Company, Inc., Albany, N. Y. Reference book and directory for lawyers. 268,391; Mar. 11; Serial No. 288,216; published Dec. 17, 1929. Class 38.

Berg Bros. Manufacturing Company Incorporated, Minneapolis, Minn. Wiener-roasting machine. 268,184; Mar. 11; Serial No. 292,199; published Dec. 24, 1929. Class 23.

Bergmann, Theo., Shoe Mfg. Co., Portland, Oreg. Leather sporting boots. 268,201; Mar. 11; Serial No. 289,813; published Dec. 24, 1929. Class 39.

Bergs, E. A., Fabriks Aktiebolag, Eskilstuna, Sweden. Planes, grooving irons, gouges, etc. 268,219; Mar. 11; Serial No. 287,904; published Dec. 24, 1929. Class 23.

Bethlehem Steel Products Company. (See Cambria Steel Company, assignor.)

Bigelow-Hartford Carpet Company, Thompsonville, Conn., now by change of name Bigelow-Sanford Carpet Co., Inc. Textile rugs and carpets. 268,342; Mar. 11; Serial No. 289,387; published Dec. 24, 1929. Class 42.

Binsky, Aaron I., Inc., New York, N. Y. Woolen goods. 268,336; Mar. 11; Serial No. 290,646; published Dec. 24, 1929. Class 42.

Blair Laboratories. (See Morton Manufacturing Corporation.)

Bonide Chemical Co. Inc., Utica, N. Y. Squill compound. 268,107; Mar. 11; Serial No. 291,497; published Dec. 24, 1929. Class 6.

Bon Vino Products, Inc., Buffalo, N. Y. Medicinal tonic. 268,425; Mar. 11; Serial No. 291,434; published Dec. 24, 1929. Class 6.

Booth, Nelson E., Brooklyn, N. Y. Washers. 78,157; renewed May 31, 1930.

Boott Mills, Lowell, Mass. Towels. 268,337; Mar. 11; Serial No. 275,097; published Dec. 24, 1929. Class 42.

Borden Method, Inc., The, Washington, D. C. Electrical hair-waving apparatus. 268,436; Mar. 11. Class 44.

Borden's Condensed Milk Company, Jersey City, N. J., and New York, N. Y., assignor to Borden's Milk Products Company, Inc., New York, N. Y. Malted milk. 77,084; renewed Mar. 8, 1930.

Bougon, Paul, Fish & Oyster Co. Inc., New Orleans, La. Canned shrimp. 268,181; Mar. 11; Serial No. 287,864; published Dec. 31, 1929. Class 46.

Boye, James H., Manufacturing Co., Chicago, Ill. Necktie, hat and garment and metal shoe racks. 268,140; Mar. 11; Serial No. 287,398; published Dec. 31, 1929. Class 13.

Bright & Company, Reading, Pa. Shovels. 268,258; Mar. 11; Serial No. 290,684; published Dec. 24, 1929. Class 23.

Bronston Bros. & Co., Inc., New York, N. Y. Hats. 268,420; Mar. 11; Serial No. 288,003; published Dec. 24, 1929. Class 39.

Brown Durrell Co., Boston, Mass., and New York, N. Y. Hosiery. 268,178; Mar. 11; Serial No. 286,858; published Dec. 24, 1929. Class 39.

Brown Durrell Co., Boston, Mass., and New York, N. Y. Hosiery. 268,179; Mar. 11; Serial No. 286,864; published Dec. 24, 1929. Class 39.

Bruning, Charles, Company, Inc., New York, N. Y. Cylindrical blue-print machines, blue-printing machines, etc. 268,223; Mar. 11; Serial No. 285,246; published Dec. 24, 1929. Class 26.

Bruning, Charles, Company, Inc., New York, N. Y. Abney hand levels, rulers, air meters, etc. 268,290; Mar. 11; Serial No. 277,400; published Dec. 24, 1929. Class 26.

Brunswick-Balke-Collender Company, The, Chicago, Ill., and Wilmington, Del. Bowling alleys and parts thereof. 268,277; Mar. 11; Serial No. 291,549; published Dec. 24, 1929. Class 22.

Buffalo Flour Mills Corporation, Buffalo, N. Y. Wheat flour. 268,142; Mar. 11; Serial No. 292,432; published Dec. 24, 1929. Class 46.

Buffalo Lamp & Mfg. Co. Inc., Buffalo, N. Y. Percolators, sugar bowls, pitchers, trays, etc. 268,331; Mar. 11; Serial No. 289,063; published Dec. 31, 1929. Class 13.

Burton Powder Company, Pittsburgh, Pa., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. Safety powder. 76,611; renewed Feb. 1, 1930.

Butler, J. W., Paper Company, assignor to Butler Paper Corporation, Chicago, Ill. Book paper. 77,469; renewed Apr. 12, 1930.
Buzza Company Inc., The, Minneapolis, Minn. Cards. 268,320; Mar. 11; Serial No. 291,319; published Dec. 17, 1929. Class 38.
C-Dar-Flo Manufacturing Co. (See Underhill, George E.)
California Lands, Inc., San Francisco, Calif. Fresh deciduous and citrus fruits. 268,175; Mar. 11; Serial No. 289,572; published Dec. 24, 1929. Class 46.
California Packing Corporation. (See Armsby, J. K., Company, assignor.)
Caligator Pear Company, Bonita, Calif. Fresh avocado or alligator pears. 268,167; Mar. 11; Serial No. 290,994; published Dec. 24, 1929. Class 46.
Cambria Steel Company, Johnstown, assignor to Bethlehem Steel Products Company, Bethlehem, Pa. Steel and forgings. 78,683–6; renewed July 5, 1930.
Canfield, Charles H., doing business as Handy Washer Company, Syracuse, N. Y. Washing machines. 268,395; Mar. 11; Serial No. 292,576; published Dec. 31, 1929. Class 24.
Capitol Paint & Varnish Works, Chicago, Ill. Paints, paint enamels, lacquers, etc. 268,281; Mar. 11; Serial No. 291,321; published Dec. 24, 1929. Class 16.
Carborundum Company, The, Niagara Falls, N. Y. Abrasive paper and cloth and waterproof abrasive paper and cloth. 268,398; Mar. 11; Serial No. 292,200; published Dec. 17, 1929. Class 4.
Carmel Valley Fruit Growers Association, Monterey, Calif. Fresh deciduous fruits. 268,186; Mar. 11; Serial No. 291,714; published Dec. 31, 1929. Class 46.
Chicago Pneumatic Tool Company. (See Hirst-Butler Electrical Machine Co., assignor.)
Childs, Jeffries & Co., Incorporated, Boston, Mass. Publications. 268,321; Mar. 11; Serial No. 291,114; published Dec. 17, 1929. Class 38.
Childs, Jeffries & Co., Incorporated, Boston, Mass. Publications. 268,335; Mar. 11; Serial No. 290,819; published Dec. 17, 1929. Class 38.
Chiron-Werke G. m. b. H., Tuttlingen, Germany. Scissors, forceps, knives, probes, etc. 268,209; Mar. 11; Serial No. 280,924; published Dec. 24, 1929. Class 44.
Cinch Manufacturing Corporation, Chicago, Ill. Separable snap fasteners. 268,415; Mar. 11; Serial No. 271,878; published Dec. 31, 1929. Class 13.
Clearwater Growers Association, Clearwater, Fla. Fresh citrus fruits. 268,187; Mar. 11; Serial No. 291,715; published Dec. 31, 1929. Class 46.
Colgate & Co., Jersey City, N. J., and New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill. Toilet preparations and fumigating wafers. 77,208; renewed Mar. 22, 1930.
Colgate & Co., Jersey City, N. J., and New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill. Soaps and shaving soap. 78,228; renewed May 31, 1930.
Colorado Poultrymen's Exchange, The, Denver, Colo. Eggs. 268,202; Mar. 11; Serial No. 290,243; published Dec. 24, 1929. Class 46.
Commercial Fertilizer Co., Montgomery, Ala., assignor, by mesne assignments, to International Agricultural Corporation, New York, N. Y. Fertilizers. 78,690; renewed July 5, 1930.
Continental Machinery and Supply Company, Los Angeles, Calif. Belt dressing. 268,406; Mar. 11; Serial No. 292,029; published Dec. 24, 1929. Class 4.
Co-Operative Manager and Farmer, Minneapolis, Minn. Publication. 268,313; Mar. 11; Serial No. 291,707; published Dec. 17, 1929. Class 38.
Cornel Drug Stores Inc., New York, N. Y. Cough medicine. 268,119; Mar. 11; Serial No. 292,030; published Dec. 24, 1929. Class 6.
Crescent Mfg. Co. (See Nagel, Frank.)
Cresta Blanca Company, Inc., San Francisco, Calif. Maltless beverages. 268,127; Mar. 11; Serial No. 291,439; published Dec. 24, 1929. Class 45.
Crown Paint & Varnish Works, Inc., Chicago, Ill. Paints and varnishes. 268,228; Mar. 11; Serial No. 284,219; published Aug. 6, 1929. Class 16.
Curtis Harvesters, Inc., Kansas City, Mo. Combined harvesters and threshers. 268,430; Mar. 11. Class 23.
Cutts, Richard M., jr., Quantico, Va. Compensator for firearms. 268,328; Mar. 11; Serial No. 292,315; published Dec. 24, 1929. Class 9.
Davis & Catterall, Inc., Passaic, N. J., and New York, N. Y. Cotton fabrics. 268,325; Mar. 11; Serial No. 292,352; Published Dec. 24, 1929. Class 42.
Deming & Gould Co., Chicago, Ill., to Deming & Gould Co., South Bellingham, Wash. Canned salmon. 78,945–54; renewed July 26, 1930.
Denison, Frank L. & Company, Inc., New York, N. Y. Cotton, wool, silk, etc., piece goods. 268,392; Mar. 11; Serial No. 287,959; published Dec. 24, 1929. Class 42.
De Valle, Inc., Lansdale, Pa. Hosiery. 268,152–3; Mar. 11; Serial Nos. 291,208–9; published Dec. 24, 1929. Class 39.
Dickinson Company, Inc., Oswego, Oreg. Grape juice and loganberry juice. 268,215; Mar. 11; Serial No. 289,787; published Dec. 24, 1929. Class 45.
Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Saws. 78,955; renewed July 26, 1930.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Pencils. 268,443; Mar. 11. Class 37.
Dry Milk Company, The, assignor to The Dry Milk Company, Inc., New York, N. Y. Desiccated milk or milk powder. 76,583–4; renewed Feb. 1, 1930.
Duffy, Leinster, to The Savodine Co., New Bern, N. C., successor. Remedy for certain diseases. 76,392; renewed Jan. 11, 1930.
Du Pont, E. I., de Nemours and Company. (See Burton Powder Company, assignor.)
Du Pont Rayon Company, New York, N. Y. Viscose yarns, threads, and filaments. 268,339; Mar. 11; Serial No. 290,058; published Dec. 24, 1929. Class 43.
Durable Paint Company, Inc., Brooklyn, N. Y. Paints. 268,280; Mar. 11; Serial No. 289,968; published Dec. 24, 1929. Class 16.
Dur-O-Lite Pencil Company, Chicago, Ill. Mechanical pencils. 268,393; Mar. 11; Serial No. 287,698; published Dec. 17, 1929. Class 37.
Duro Metal Products Company, Chicago, Ill. Automotive tools. 268,130; Mar. 11; Serial No. 291,657; published Dec. 24, 1929. Class 23.
Electric Babbitt Metals Company. (See Hall, James A.)
Elgin National Watch Company, Chicago, Ill. Watches. 268,269; Mar. 11; Serial No. 290,940; published Dec. 24, 1929. Class 27.
Emily Shops, Inc., New York, N. Y. Hosiery. 268,182; Mar. 11; Serial No. 291,501; published Dec. 17, 1929. Class 39.
Empire Paper Company, Chicago, Ill. Papers. 268,350–1; Mar. 11; Serial Nos. 291,000–1; published Dec. 17, 1929. Class 37.
Englander Spring Bed Company, Brooklyn, N. Y. Beds. 268,140; Mar. 11; Serial No. 292,400; published Dec. 24, 1929. Class 32.
Esmond Mills, The, Esmond, R. I. Textile blankets. 268,327; Mar. 11; Serial No. 292,316; published Dec. 24, 1929. Class 42.
Essex Rubber Company Inc., Trenton, N. J. Soles and heels for boots and shoes. 268,193; Mar. 11; Serial No. 291,085; published Dec. 24, 1929. Class 39.
Etablissements F. Delory, Lorient, France. Canned fish. 268,156; Mar. 11; Serial No. 291,329; published Dec. 24, 1929. Class 46.
Evansville Paint & Varnish Co. (See Red Spot Paint & Varnish Co.)
Ever Fresh Nut Co., Inc., Rochester, N. Y. Edible salted nuts. 268,234; Mar. 11; Serial No. 283,267; published Dec. 31, 1929. Class 46.
Fairchild Bros. & Foster, New York, N. Y. Protein to be used for experimental, technical, and clinical purposes. 268,120; Mar. 11; Serial No. 292,098; published Dec. 24, 1929. Class 6.
Falling Spring Lime Company, Inc., Covington, Va. Composition of matter used as a soil conditioner. 268,248; Mar. 11; Serial No. 290,779; published Dec. 24, 1929. Class 10.
Father Lee Medicines, Chicago, Ill. Salve, compounds, and preparations. 268,431; Mar. 11. Class 6.
Fawcett Publications, Inc., Robbinsdale, Minn. Magazines. 268,108; Mar. 11; Serial No. 291,660; published Dec. 24, 1929. Class 38.
Federal Asphalt Paving Company, The, Hamilton, Ohio. Road-paving material. 268,428; Mar. 11. Class 12.
Federation of Sewage Works Associations, The, New York, N. Y. Magazine. 268,334; Mar. 11; Serial No. 290,826; published Dec. 17, 1929. Class 38.
Feinstein, P., & Sons, New York, N. Y. Overcoats. 268,390; Mar. 11; Serial No. 274,040; published Dec. 24, 1929. Class 39.
Filene's, Wm., Sons Company, Boston, Mass. Friction cigarette lighters, friction table lighters, etc. 268,379; Mar. 11; Serial No. 289,736; published Dec. 31, 1929. Class 34.
Firebrand Kitchen Equipment Company, The, New York, N. Y.; Cincinnati, Ohio; and Chicago, Ill. Urns, accessories for urns, steam tables, etc. 268,296; Mar. 11; Serial No. 281,278; published Dec. 31, 1929. Class 13.
Flannery Manufacturing Company, Pittsburgh, Pa. Pots for holding baths for heat treating, plating, and the like to be heated. 268,235; Mar. 11; Serial No. 283,035; published Dec. 31, 1929. Class 34.
Florian, Inc., Detroit, Mich. Shaving cream. 268,362; Mar. 11; Serial No. 276,932; published Dec. 17, 1929. Class 4.
Foot, S. B., & Co., Red Wing, Minn. Side leathers. 78,504; renewed June 21, 1930.
Fort Howard Paper Company, Green Bay, Wis. Paper napkins, doilies, tablecloths, and towels. 268,312; Mar. 11; Serial No. 277,537; published Dec. 17, 1929. Class 37.
Fort Wayne Engineering & Manufacturing Co., Fort Wayne, Ind. Mechanical water softeners. 268,129; Mar. 11; Serial No. 291,614; published Dec. 24, 1929. Class 23.
Foster-McClellan Company, Buffalo, N. Y. Medicines. 78,090; renewed May 31, 1930.
Foto-Fax, Inc., San Francisco, Calif. Photographs. 268,316; Mar. 11; Serial No. 291,559; published Dec. 17, 1929. Class 38.
Fox, Frances, Laboratories Incorporated, Ridgewood, N. J. Soap. 268,417; Mar. 11; Serial No. 270,697; published Dec. 24, 1929. Class 4.
Fremont Canning Company, Fremont, Mich. Canned strained vegetable products and fruits. 268,365; Mar. 11; Serial No. 275,892; published Dec. 24, 1929. Class 46.

Frenchee Chemical Co. (See Sternberg, Irving.)
Fried Garment Mfg. Co., Inc., Houston, Tex. Dresses, aprons, coats, and underwear. 268,166; Mar. 11; Serial No. 290,946; published Dec. 24, 1929. Class 39.
Friedman Silver Co., Inc., Brooklyn, N. Y. Table hollow ware of base metal. 268,376; Mar. 11; Serial No. 290,460; published Dec. 31, 1929. Class 13.
Funk & Wagnalls Company, New York, N. Y. Periodical. 268,103; Mar. 11; Serial No. 292,162; published Dec. 24, 1929. Class 38.
Galax Knitting Company, Galax, Va. Hosiery. 268,164; Mar. 11; Serial No. 290,751; published Dec. 17, 1929. Class 39.
Garin, H. P., Co., San Francisco, Calif. Fresh deciduous fruits, cantaloupes, and vegetables. 268,172; Mar. 11; Serial No. 289,581; published Dec. 31, 1929. Class 46.
Garrett, John E., New Glasgow, Nova Scotia, Canada, and Malden, Mass. Rug hookers. 268,137; Mar. 11; Serial No. 292,263; published Dec. 24, 1929. Class 23.
Gasser Coffee Company, The, by change of name to The Karavan Coffee Company, Toledo, Ohio. Coffees and teas. 78,706; renewed July 5, 1930.
Gast Manufacturing Corporation, Bridgman, Mich. Device for separating oil and water from compressed air, device for cooling compressed air, etc. 268,434; Mar. 11. Class 23.
Gaylord, Robert, Incorporated, St. Louis, Mo. Cases. 268,397; Mar. 11; Serial No. 292,264; published Dec. 31, 1929. Class 2.
Gebr. Dowidat, Luttringhausen, Germany. Adjustable screw wrenches. 268,218; Mar. 11; Serial No. 288,278; published Dec. 24, 1929. Class 23.
Gernsback Publications, Inc., New York, N. Y. Publication. 268,116; Mar. 11; Serial No. 291,973; published Dec. 24, 1929. Class 38.
Gleason Works, The, Rochester, N. Y. Machines for producing gears and for parts for said machinery. 268,260; Mar. 11; Serial No. 290,510; published Dec. 24, 1929. Class 23.
Glessner Company, The, Findlay, Ohio. Shaving soap. 268,244; Mar. 11; Serial No. 282,238; published Dec. 17, 1929. Class 4.
Good Story Magazine Company, Inc., New York, N. Y. Publicaton. 268,338; Mar. 11; Serial No. 290,124; published Dec. 24, 1929. Class 38.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Adhesives. 268,254; Mar. 11; Serial No. 291,217; published Dec. 24, 1929. Class 5.
Gordon, Samuel, San Francisco, Calif. Women's wearing apparel. 268,296; Mar. 11; Serial No. 281,730; published Dec. 24, 1929. Class 39.
Graham, David T., St. Louis, Mo., to David T. Graham, Los Angeles, Calif. Metallic belt fasteners. 77,308; renewed Mar. 29, 1930.
Grant, William E., doing business as Peace Medical Company, Lancaster, Pa. Vaginal douche. 268,121; Mar. 11; Serial No. 292,105; published Dec. 24, 1929. Class 6.
Greene, William, doing business as Greene Service Company, New York, N. Y. Photographic enlargements. 268,105; Mar. 11; Serial No. 292,354; published Dec. 24, 1929. Class 38.
Greenholtz, Ben, New York, N. Y. Coats for sport and dress wear. 268,168; Mar. 11; Serial No. 291,003; published Dec. 17, 1929. Class 39.
Greenlaw, William H., Beverly, Mass. Metal brackets. 268,438; Mar. 11. Class 13.
Guttman, Jacob, & Sons, Inc., New York, N. Y. Sports wear. 268,155; Mar. 11; Serial No. 291,220; published Dec. 24, 1929. Class 39.
Halfhill Packing Corporation, Inc., Long Beach, Calif. Canned fish. 268,432; Mar. 11. Class 46.
Hall, James A., doing business as Electric Babbitt Metals Company, Los Angeles, Calif. Babbitt metal. 268,280; Mar. 11; Serial No. 291,333; published Dec. 24, 1929. Class 14.
Hamilton Metalplane Co., Milwaukee, Wis. Airplanes and constructive or structural parts of airplanes. 268,303; Mar. 11; Serial No. 279,470; published Dec. 31, 1929. Class 19.
Hammel, Riglander & Co., New York, N. Y. Watch, clock, and chronometer oils. 78,091; renewed May 31, 1930.
Handy Washer Company. (See Canfield, Charles H.)
Hansley Mills, New York, N. Y. Underwear. 268,146; Mar. 11; Serial No. 291,806; published Dec. 24, 1929. Class 39.
Hartman, Joel S., New York, N. Y. Toilet tisane. 268,333; Mar. 11; Serial No. 290,833; published Dec. 24, 1929. Class 37.
Haserot, Samuel F., to The Haserot Company, Cleveland, Ohio, successor. Plug chewing tobacco. 34,591; renewed May 1, 1930.
Helland, John, Co., Chicago, Ill. Foot powder, damiana, liver pills, etc. 268,416; Mar. 11; Serial No. 270,840; published Dec. 24, 1929. Class 6.
Heller, David, doing business as Heller & Long, New York, N. Y. Handkerchiefs. 268,448; Mar. 11. Class 42.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Fire hose. 268,429; Mar. 11. Class 35.
High-Gloss Inc., New York, N. Y. Brass and copper polish. 268,150; Mar. 11; Serial No. 287,819; published Dec. 24, 1929. Class 4.
Hilex Company, The, St. Paul, Minn. Cleaning compound, bleach disinfectant, deodorant, and antiseptic. 268,112; Mar. 11; Serial No. 291,827; published Dec. 24, 1929. Class 6.
Hirst-Butler Electrical Machine Co., The, Reynoldsville, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Electric mining machines. 76,514; renewed Jan. 25, 1930.
Hogan, Molly M., New York, N. Y. Hair tonic, shampoo, hair oil, and pomade. 268,197; Mar. 11; Serial No. 290,573; published Dec. 24, 1929. Class 6.
Hood Rubber Company, Inc. (See Shawmut Tire Co., assignor.)
Hood Rubber Company, Inc., Watertown, Mass. Rubber soles and heels. 268,205; Mar. 11; Serial No. 289,627; published Dec. 24, 1929. Class 39.
Howdy Company, The, St. Louis, Mo. Maltless beverages, syrups, extracts, and concentrates used in making the same. 268,253; Mar. 11; Serial No. 291,337; published Dec. 24, 1929. Class 45.
Hurst, John E., & Company, to John E. Hurst & Company, Inc., Baltimore, Md., successor. Fancy goods and notions. 76,568; renewed Feb. 1, 1930.
Hurst, John E., & Company, to John E. Hurst & Company, Inc., Baltimore, Md., successor. Clothing. 76,670; renewed Feb. 8, 1930.
Huyck, F. C., & Sons, Albany and Rensselaer, N. Y. Blankets of textile fabric. 268,324; Mar. 11; Serial No. 292,356; published Dec. 24, 1929. Class 42.
Ideal Coated Paper Co., Tenafly, N. J., and Brookfield, Mass., assignor to McLaurin-Jones Co., Brookfield, Mass. Gummed paper. 77,543; renewed Apr. 19, 1930.
Illinois Zinc Company, Chicago, Ill. Zinc alloy. 268,273; Mar. 11; Serial No. 291,769; published Dec. 24, 1929. Class 14.
Independent Coal & Coke Co., Salt Lake City, Utah. Coal and coke. 76,592; renewed Feb. 1, 1930.
Independent Coal & Coke Co., Salt Lake City, Utah. Coal and coke. 76,917–8; renewed Feb. 22, 1930.
Independent Oil Men of America, Chicago, Ill. Publication. 268,319; Mar. 11; Serial No. 291,390; published Dec. 17, 1929. Class 38.
Industrial Supply Company, Salt Lake City, Utah. Portable hand fire extinguishers, saws, twist drills, etc. 268,302; Mar. 11; Serial No. 279,473; published Dec. 24, 1929. Class 23.
International Agricultural Corporation. (See Commercial Fertilizer Co., assignor.)
International Products Corporation, New York, N. Y. Canned corned beef. 268,144; Mar. 11; Serial No. 291,057; published Dec. 31, 1929. Class 46.
Iowa Fiber Box Company, Keokuk, Iowa. Shipping containers. 268,245; Mar. 11; Serial No. 282,115; published Dec. 31, 1929. Class 2.
Iron Fireman Manufacturing Company, Portland, Oreg. Automatic coal burners. 268,300; Mar. 11; Serial No. 279,652; published Dec. 31, 1929. Class 34.
Jacobs, Leon E., & Bro., New York, N. Y. Shirts and collars. 268,160; Mar. 11; Serial No. 290,264; published Dec. 24, 1929. Class 39.
Jaden, Fred I., doing business as F. Jaden Mfg. Co., Hastings, Nebr. Emery cutting cloth. 268,377; Mar. 11; Serial No. 289,972; published Dec. 17, 1929. Class 4.
James Manufacturing Company, Fort Atkinson, Wis. Feed, litter, milk-can, and swill carriers, barn-floor scrapers, poultry equipment, etc. 268,131; Mar. 11; Serial No. 291,668; published Dec. 24, 1929. Class 23.
James Manufacturing Company, Fort Atkinson, Wis. Mangers and tanks. 268,410; Mar. 11; Serial No. 291,672; published Dec. 31, 1929. Class 2.
James Manufacturing Company, Fort Atkinson, Wis. Equipment—Namely, roof ventilators, flues, louvers, etc. 268,411; Mar. 11; Serial No. 291,670; published Dec. 31, 1929. Class 34.
James Manufacturing Company, Fort Atkinson, Wis. Metal gutter and manger drains, metal gates, etc. 268,412; Mar. 11; Serial No. 291,669; published Dec. 31, 1929. Class 13.
Jewish Biographical Bureau, Inc., New York, N. Y. Books. 268,318; Mar. 11; Serial No. 291,458; published Dec. 17, 1929. Class 38.
John, Robert, Long Branch, N. J. Liquid carbon remover. 268,360; Mar. 11; Serial No. 256,780; published Dec. 24, 1929. Class 6.
K-Lindy Products Co., The, Cleveland, Ohio. Foot and skin lotion. 268,483; Mar. 11. Class 6.
Karavan Coffee Company, The. (See Gasser Coffee Company, The.)
Karl Laboratories. (See Pomerance, Tulley J.)
Kensinger, Charles W., doing business as Servu Cleaner & Mfg. Co., Wilkinsburg, Pa. Wall-paper cleaner. 268,409; Mar. 11; Serial No. 291,774; published Dec. 17, 1929. Class 4.
Kircher, Benjamin T., Mantua, N. J. Medical preparation used in the treatment of hog cholera. 268,191; Mar. 11; Serial No. 291,275; published Dec. 24, 1929. Class 6.
Klaas, Carl, doing business as Carl Klaas, a Firm, Solingen, Germany. Razor blades. 268,252; Mar. 11; Serial No. 291,339; published Dec. 24, 1929. Class 28.
Knox Hat Company, Inc., New York, N. Y. Caps and hats, gloves, trousers, etc. 268,299; Mar. 11; Serial No. 270,670; published Dec. 24, 1929. Class 39.

Kobayashi, Zembei, Tokyo, Japan. Metallic and mechanical pencils, pens, penholders, etc. 268,359; Mar. 11; Serial No. 259,306; published Dec. 17, 1929. Class 37.
Kohler Company, Kohler, Wis. Pottery ware. 268,439; Mar. 11. Class 13.
Kramer Brothers, New York, N. Y. Hosiery. 268,361; Mar. 11; Serial No. 252,284; published Dec. 24, 1929. Class 39.
Kraus, Herman, Inc., Toledo, Ohio. Ginger ale. 268,221; Mar. 11; Serial No. 287,707; published Dec. 24, 1929. Class 45.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Brushes. 268,249; Mar. 11; Serial No. 288,135; published Dec. 24, 1929. Class 29.
Kunkelmann & Cie. Societe Anonyme, Reims, France. Champagne. 268,427; Mar. 11; Serial No. 272,500; published Dec. 24, 1929. Class 47.
La France Manufacturing Company, Philadelphia, Pa., to La France Manufacturing Company, New York, N. Y. Laundry soaps. 77,042; renewed Mar. 1, 1930.
Lamb Mfg. Company, Terre Haute, Ind. Professional and service apparel. 268,200; Mar. 11; Serial No. 290,183; published Dec. 24, 1929. Class 39.
Lambert, Howard B., doing business as Universal Solvent Company, Philadelphia, Pa. Cleanser. 268,374; Mar. 11; Serial No. 291,228; published Dec. 24, 1929. Class 4.
La Mode Garment Co., Inc., Chicago, Ill. Wearing apparel. 268,161; Mar. 11; Serial No. 290,517; published Dec. 17, 1929. Class 39.
Langbein, William, Bros., Brooklyn, N. Y. Castings and forgings. 268,291; Mar. 11; Serial No. 277,302; published Dec. 24, 1929. Class 14.
La Salle Machine Works, Inc., Chicago, Ill. Press-metal machinery, punch presses, and parts. 268,292; Mar. 11; Serial No. 277,067; published Dec. 24, 1929. Class 23.
Laura Hair Novelty Co., The. (See Thau, Charles K.)
Laurel Soap Manufacturing Co., Inc., Philadelphia, Pa. Soap, scouring compounds, etc. 268,373; Mar. 11; Serial No. 291,278; published Dec. 17, 1929. Class 4.
Layman, Bertha M., doing business as American Candy Company, Kansas City, Mo. Pop corn. 268,368; Mar. 11; Serial No. 275,168; published Dec. 24, 1929. Class 46.
Leader Iron Works, assignor to Leader Iron Works, Decatur, Ill. Pneumatic tanks and parts of same. 76,654; renewed Feb. 8, 1930.
Lehman Company of America, The, Cannelton, Ind. Chairs and rockers. 268,444; Mar. 11. Class 32.
Lesher, Whitman & Co., Inc., New York, N. Y. Ladies' and misses' coats, suits, dresses, etc. 268,165; Mar. 11; Serial No. 290,755; published Dec. 17, 1929. Class 39.
Levin & Harris Shirt Co., Inc., New York, N. Y. Shirts. 268,158; Mar. 11; Serial No. 291,396; published Dec. 24, 1929. Class 39.
Lewis, Frank P., Cigar Co., Peoria, Ill. Cigars. 268,266–7; Mar. 11; Serial Nos. 291,623–4; published Dec. 24, 1929. Class 17.
Lightnin Chemical Company, The, Painesville, Ohio. Bowl cleaner. 268,237; Mar. 11; Serial No. 284,580; published Dec. 17, 1929. Class 4.
Lockwoven Hosiery Company, St. Louis, Mo. Hosiery, underwear, neckwear, four-in-hand and bow ties. 268,297; Mar. 11; Serial No. 280,848; published Dec. 24, 1929. Class 39.
Loewy, Theresa, St. Louis, Mo. Beef and calves' feet jelly. 268,294; Mar. 11; Serial No. 281,740; published Dec. 24, 1929. Class 46.
Lotus Limited, Stafford, England. Boots and shoes. 268,203; Mar. 11; Serial No. 289,684; published Dec. 24, 1929. Class 39.
Lowry, Albert John, Chicago, Ill. Series of volumes containing lectures and articles and other similar matter. 268,298; Mar. 11; Serial No. 280,029; published Dec. 17, 1929. Class 38.
Lyle, Abram, & Sons, Limited, assignor, by mesne assignments, to Tate & Lyle, Limited, London, England. Syrup and sugar. 34,322; renewed Mar. 13, 1930.
Mackintosh, John, and Sons, Limited, Halifax, England. Toffee. 268,159; Mar. 11; Serial No. 290,170; published Dec. 24, 1929. Class 46.
Mackintosh, John, and Sons, Limited, Halifax, England. Toffee. 268,183; Mar. 11; Serial No. 291,627; published Dec. 24, 1929. Class 46.
Madsen, Edward, & Sons, Chicago, Ill. Photographic prints and enlargements. 268,311; Mar. 11; Serial No. 277,839; published Dec. 17, 1929. Class 38.
Main Toy Company, Oskaloosa, Iowa. Toy building blocks. 268,283; Mar. 11; Serial No. 291,194; published Dec. 31, 1929. Class 22.
Makepeace Preserving Company, Wareham, Mass. Canned fruits and vegetables. 268,304; Mar. 11; Serial No. 279,352; published Dec. 31, 1929. Class 46.
Marcel Franck, Inc., New York, N. Y. Perfume and medicinal atomizers. 268,276; Mar. 11; Serial No. 291,560; published Dec. 24, 1929. Class 44.
Marcellene Chemical Company, Richmond, Va. Hair and toilet preparations. 268,202; Mar. 11; Serial No. 289,791; published Dec. 24, 1929. Class 6.
Marlboro Wire Goods Company, Marlboro, Mass. Soap dishes, toothbrush holders, wall brackets, etc. 268,380; Mar. 11; Serial No. 289,471; published Dec. 31, 1929. Class 13.
Mar-Vel-O Company. (See Rambonnet, Carrie H.)
Maschinenfabrik Augsburg-Nürnberg Aktiengesellschaft, Augsburg, Germany. Turning lathes. 268,389; Mar. 11; Serial No. 274,661; published Dec. 24, 1929. Class 23.
Mattison, Mrs. Albert F., doing business as The Minute-Robe Company, Buffalo, N. Y. Burial robes. 268,301; Mar. 11; Serial No. 279,553; published Dec. 24, 1929. Class 39.
May & Malone, Chicago, Ill. Catalogs. 268,348; Mar. 11; Serial No. 291,063; published Dec. 17, 1929. Class 38.
McClure & McIntosh, Limited, Glasgow, Scotland. Clothing. 268,174; Mar. 11; Serial No. 289,034; published Dec. 17, 1929. Class 39.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Publication. 268,337; Mar. 11; Serial No. 290,318; published Dec. 17, 1929. Class 38.
McLaurin-Jones Co. (See Ideal Coated Paper Co., assignor.)
McLeish, Wm., assignor to Appleton Car Mover Company, Inc., Appleton, Wis. Car movers and pushers. 77,477; renewed Apr. 12, 1930.
Melville Shoe Corporation, New York, N. Y. Hosiery. 268,176; Mar. 11; Serial No. 289,936; published Dec. 17, 1929. Class 39.
Meredith Publishing Company, Des Moines, Iowa. Publication. 268,104; Mar. 11; Serial No. 292,274; published Dec. 24, 1929. Class 38.
Metal Cabinet & Equipment Company, New York, N. Y. Cabinets and counters. 268,442; Mar. 11. Class 32.
Midvale Company, The, Philadelphia, Pa. Castings, forgings, ingots, etc. 268,208; Mar. 11; Serial No. 288,861; published Dec. 24, 1929. Class 14.
Mid-West Publishers, Inc., St. Louis, Mo. Magazine. 268,329; Mar. 11; Serial No. 292,221; published Dec. 24, 1929. Class 38.
Minnesota Chemical Co., Inc., The, St. Paul, Minn. Soap powder. 268,352; Mar. 11; Serial No. 291,571; published Dec. 17, 1929. Class 4.
Minnesota Chemical Co., Inc., The, St. Paul, Minn. Scouring powder. 268,353; Mar. 11; Serial No. 291,509; published Dec. 17, 1929. Class 4.
Minnesota Chemical Co., Inc., The, St. Paul, Minn. Soap chips. 268,385; Mar. 11; Serial No. 291,567; published Dec.17, 1929. Class 4.
Minute-Robe Company, The. (See Mattison, Mrs. Albert F.)
Missoula Feed and Grain Company, Missoula, Mont. Stock, cattle, and poultry feed. 268,141; Mar. 11; Serial No. 292,411; published Dec. 24, 1929. Class 46.
Moland's, William, Sons, assignor to Wm. Moland's Sons, Inc., Philadelphia, Pa. Lard. 76,198; renewed Dec. 28, 1929.
Mono-Aircraft Corporation, Moline, Ill. Monoplanes. 268,408; Mar. 11; Serial No. 291,779; published Dec. 31, 1929. Class 19.
Morland & Impey Limited, Birmingham, England. Loose-leaf binders, paper, index cards, etc. 268,309; Mar. 11; Serial No. 278,054; published Dec. 24, 1929. Class 37.
Morton Manufacturing Corporation, doing business as Blair Laboratories, Lynchburg, Va. Soap. 268,372; Mar. 11; Serial No. 291,285; published Dec. 24, 1929. Class 4.
Muhs, Henry, Company, The, Passaic, N. J. Sausage patties. 268,169; Mar. 11; Serial No. 291,014; published Dec. 31, 1929. Class 46.
Mülhens, Ferd, Inc., New York, N. Y. Soaps and shaving cream. 268,378; Mar. 11; Serial No. 289,797; published Dec. 17, 1929. Class 4.
N. Z. Cheese, Ltd., Auckland, New Zealand. Cheese. 268,143; Mar. 11; Serial No. 292,457; published Dec. 24, 1929. Class 46.
Naamloose Vennootschap Utrechtsche Botterspritsfabriek Voorheen Firma W. J. Noteboom, Utrecht, Netherlands. Biscuits. 268,216; Mar. 11; Serial No. 289,530; published Dec. 24, 1929. Class 46.
Nagel, Frank, doing business as Crescent Mfg. Co., Fremont, Ohio. Razor blades. 268,251; Mar. 11; Serial No. 291,400; published Dec. 24, 1929. Class 28.
Namm, A. I., & Son, doing business as The Namm Store, Brooklyn, N. Y. Men's clothing. 268,195; Mar. 11; Serial No. 290,965; published Dec. 24, 1929. Class 39.
National Screen Service Corp., New York, N. Y. Motion-picture films. 268,437; Mar. 11. Class 26.
National Water Main Cleaning Co., Augusta, Me., and New York, N. Y., to National Water Main Cleaning Co., New York, N. Y. Tools for use in cleaning pipes and cylinders. 77,945; renewed May 17, 1930.
Neptune Packing Company, Booth Bay Harbor, Me., and Boston, Mass., to Neptune Packing Company, Boston, Mass. Canned sardines. 76,766–7; renewed Feb. 15, 1930.
Nestor Johnson Manufacturing Company, Chicago, Ill. Ice skates. 268,441; Mar. 11. Class 22.
Neustadter Bros., San Francisco, Calif. Sweaters, sweater coats, and knitted shirts. 268,145; Mar. 11; Serial No. 291,098; published Dec. 24, 1929. Class 39.
New Era Motors, Incorporated, New York, N. Y. Automobiles. 268,375; Mar. 11; Serial No. 290,518; published Dec. 31, 1929. Class 19.
New Orleans Coffee Co., Ltd., New Orleans, La. Compound of coffee and chicory, and a compound of coffee, cereal, and chicory. 268,170; Mar. 11; Serial No. 289,125; published Dec. 31, 1929. Class 46.
Nice, Eugene E., Philadelphia, Pa. Paints, varnishes, fillers, colors, etc. 76,768; renewed Feb. 15, 1930.

Northwest Paper Company, The, Cloquet, Minn. Wrapping and envelope paper and paperboard lining. 268,238; Mar. 11; Serial No. 282,823; published Dec. 17, 1929. Class 37.
Nu-Art Cook-Ware Corporation, Chicago, Ill. Triplicate sets, waffle molds, frying pans, etc. 268,369; Mar. 11; Serial No. 291,354; published Dec. 31, 1929. Class 13.
Oceanic Sales Co., Seattle, Wash. Canned salmon. 268,247; Mar. 11; Serial No. 284,362; published Dec. 31, 1929. Class 46.
O'Connor & Goldberg, Chicago, Ill. Women's shoes. 268,196; Mar. 11; Serial No. 290,761; published Dec. 24, 1929. Class 39.
Olds, Wortman and King. (See Schlesinger, B. F., & Sons.)
Oliver Iron & Steel Corporation, Pittsburgh, Pa. Bolts. 268,400; Mar. 11; Serial No. 292,174; published Dec. 31, 1929. Class 13.
Orr, J. K., Shoe Company, The, Atlanta, Ga. Shoes. 268,206; Mar. 11; Serial No. 289,363; published Dec. 24, 1929. Class 39.
Ostdiek Co., The, Minneapolis, Minn. Dust mops. 268,239; Mar. 11; Serial No. 282,790; published Dec. 24, 1929. Class 29.
Overholt, A., & Company, Broad Ford, Pa. Whiskey. 268,132; Mar. 11; Serial No. 291,784; published Dec. 24, 1929. Class 49.
Pacific American Fisheries, Chicago, Ill., to Pacific American Fisheries, South Bellingham, Wash. Canned salmon. 78,988–99; renewed July 26, 1930.
Page Milling Co., The, Luray, Va. Wheat flour. 268,135; Mar. 11; Serial No. 292,227; published Dec. 24, 1929. Class 46.
Pal. O. Mor. Chemical Co., The. (See Swartz, William L.)
Parfumerie Roger et Galliet, Société Anonyme, Paris, France. Perfume extracts, toilet waters, and perfumery. 268,367; Mar. 11; Serial No. 275,292; published Dec. 24, 1929. Class 6.
Pargrip Company, The. (See Salm, John E.)
Parker Brothers Inc., Portland, Me., and Salem, Mass. Board game. 268,271; Mar. 11; Serial No. 292,414; published Dec. 31, 1929. Class 22.
Pasadena Orange Growers Association, Pasadena, Calif. Oranges and grapefruit. 77,563–4; renewed Apr. 19, 1930.
Peace Medical Company. (See Grant, William E.)
Permanent Bevel Unbreakable Crystal Company, The, Pittsburgh, Pa. Composition watch crystals and transparent composition disks and plates. 268,388; Mar. 11; Serial No. 274,981; published Dec. 24, 1929. Class 38.
Perrucci, Delfo, doing business as Phoebus Chemical Co., New York, N. Y. Polish. 268,285; Mar. 11; Serial No. 291,022; published Dec. 24, 1929. Class 16.
Philadelphia Magnesia Company, Philadelphia, Pa. Effervescent solution of magnesia. 268,190; Mar. 11; Serial No. 291,406; published Dec. 24, 1929. Class 6.
Phoebus Chemical Co. (See Perrucci, Delfo.)
Piggly Wiggly Corporation, Cincinnati, Ohio. Domestic ammonia and liquid bluing. 268,117; Mar. 11; Serial No. 292,007; published Dec. 24, 1929. Class 6.
Piggly Wiggly Corporation, Cincinnati, Ohio. Brooms. 268,226; Mar. 11; Serial No. 292,008; published Dec. 24, 1929. Class 29.
Piggly Wiggly Corporation, Cincinnati, Ohio. Brooms. 268,264–5; Mar. 11; Serial Nos. 292,005–6; published Dec. 24, 1929. Class 29.
Playground and Recreation Association of America, Incorporated, New York, N. Y. Monthly magazine. 268,394; Mar. 11; Serial No. 286,680; published Dec. 24, 1929. Class 38.
Pomerance, Tulley J., doing business as Karl Laboratories, Detroit, Mich. Inhalant liquids. 268,111; Mar. 11; Serial No. 291,788; published Dec. 24, 1929. Class 6.
Powdrell & Alexander, Inc., Boston, Mass. Piece goods of cotton, linen, etc. 268,823; Mar. 11; Serial No. 292,461; published Dec. 24, 1929. Class 42.
Protex Products Company. (See Schwartzman, Harry.)
Pyroneutrol Co. (See Rivero, Aquilino S.)
Queensboro Tool & Die Co., Inc., Long Island City, N. Y. Accelerator pedals. 268,256; Mar. 11; Serial No. 291,024; published Dec. 24, 1929. Class 28.
Quigan, Frank J., Inc., Brooklyn, N. Y. Safety-razor blades. 268,138; Mar. 11; Serial No. 292,287; published Dec. 24, 1929. Class 28.
Rambonnet, Carrie H., doing business as Mar-Vel-O Company, Chicago, Ill. Preparation for cleaning. 268,354; Mar. 11; Serial No. 291,575; published Dec. 24, 1929. Class 4.
Rathbone, Sard & Co., Albany, N. Y.; Detroit, Mich.; Chicago and Aurora, Ill., assignor to Standard Gas Equipment Corporation, Baltimore, Md. Stoves, ranges, and furnaces. 78,905–6; renewed July 19, 1930.
Rawlings Manufacturing Company, St. Louis, Mo. Playballs. 268,270; Mar. 11; Serial No. 292,553; published Dec. 31, 1929. Class 22.
Ray-Brown Company, Inc., Woodburn, Oreg. Canned fruits and vegetables. 268,177; Mar. 11; Serial No. 286,590; published Dec. 24, 1929. Class 46.
Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Cleaner, oil soaps, metal polish, and nickel paste. 268,355; Mar. 11; Serial No. 267,388; published Oct. 23, 1928. Class 4.
Reynolds, Karl G., Los Angeles, Calif. Publications. 268,366; Mar. 11; Serial No. 275,630; published Dec. 24, 1929. Class 38.
Reis, Robert, & Co., New York, N. Y. Pajamas. 268,184; Mar. 11; Serial No. 291,638; published Dec. 17, 1929. Class 39.
Renwal Scientific Engineering Company, Chicago, Ill. Vibrating and heating apparatus and electrical equipment associated therewith. 268,210–11; Mar. 11; Serial Nos. 286,653–4; published Dec. 24, 1929. Class 44.
Renwal Scientific Engineering Company, Chicago, Ill. Vibrating and heating apparatus and electrical equipment associated therewith. 268,287; Mar. 11; Serial No. 290,717; published Dec. 24, 1929. Class 44.
Rhodes Brothers. (See Schlesinger, B. F., & Sons.)
Ringlette Permanent Company, San Francisco, Calif. Permanent-hair-waving apparatus. 268,275; Mar. 11; Serial No. 291,696; published Dec. 24, 1929. Class 44.
Rivero, Aquilino S., doing business as Pyroneutrol Co., New York, N. Y. Medicinal preparation. 268,189; Mar. 11; Serial No. 291,412; published Dec. 24, 1929. Class 6.
Roberts, Sanford & Taylor Company, Sherman, Tex. Certain cutlery and machine tools. 79,007; renewed July 26, 1930.
Rochester Co. Inc., The, Enid, Okla. Handkerchiefs. 268,330; Mar. 11; Serial No. 292,178; published Dec. 24, 1929. Class 42.
Rorer, William H., Inc., Philadelphia, Pa. Medicine. 268,113; Mar. 11; Serial No. 291,791; published Dec. 24, 1929. Class 6.
Rosecliff Shirt Corporation, New York, N. Y. Men's dress shirts and ties. 268,162; Mar. 11; Serial No. 290,603; published Dec. 17, 1929. Class 39.
Rosenbaum, Rudolph R., doing business as Western Chemical Laboratories, Chicago, Ill. Soap. 268,308; Mar. 11; Serial No. 278,191; published Feb. 26, 1929. Class 4.
Roseville Pottery Company, The, Zanesville, Ohio. Earthenware articles. 268,446; Mar. 11. Class 30.
Rossi Cigar Co., Oakland, Calif. Cigars. 268,250; Mar. 11; Serial No. 286,594; published Dec. 24, 1929. Class 17.
Roth-Büchner Aktiengesellschaft, Berlin-Tempelhof, Germany. Cutlery. 268,310; Mar. 11; Serial No. 277,919; published Dec. 24, 1929. Class 28.
Russell & Erwin Manufacturing Company, assignor to The American Hardware Corporation, New Britain, Conn. Hardware. 78,910; renewed July 19, 1930.
Salm, John E., doing business as The Pargrip Company, Albany, N. Y. Antislipping preparation. 268,371; Mar. 11; Serial No. 291,293; published Dec. 17, 1929. Class 4.
Samaha Bros., Washington, D. C. Coffees. 268,157; Mar. 11; Serial No. 291,358; published Dec. 24, 1929. Class 46.
Savodine Co., The. (See Duffy, Leinster.)
Schall & Cie., Paris, France. Empty boxes and cases. 268,363; Mar. 11; Serial No. 276,459; published Dec. 24, 1929. Class 2.
Schapiro & Byne, Inc., New York, N. Y. Pins and safety pins. 268,194; Mar. 11; Serial No. 291,027; published Dec. 24, 1929. Class 40.
Schiffer, David H., doing business as Wearever Shirt Co., New York, N. Y. Shirts. 268,171; Mar. 11; Serial No. 289,208; published Dec. 24, 1929. Class 39.
Schiller Piano Company, Oregon, Ill. Pianos. 77,961; renewed May 17, 1930.
Schlesinger, B. F., & Sons, New York, N. Y., and San Francisco, Calif., doing business as Olds, Wortman and King, Portland, Oreg., and Rhodes Brothers, Tacoma, Wash. Men's and young men's suits and overcoats. 268,163; Mar. 11; Serial No. 290,607; published Dec. 17, 1929. Class 39.
Schwartzman, Harry, doing business as Protex Products Company, Jersey City, N. J. Sanitary paper dress shields and metal clips for attachment to garments. 218,307; Mar. 11; Serial No. 278,557; published Dec. 24, 1929. Class 40.
Sealy Mattress Company, Dallas, to The Sealy Corporation, Houston, Tex., successor. Mattresses. 76,217; renewed Dec. 28, 1929.
Servu Cleaner & Mfg. Co. (See Kensinger, Charles W.)
Sexauer, J. A., Mfg. Co., Inc., New York, N. Y. Washers, faucet cushions, and bibb washers. 268,242; Mar. 11; Serial No. 282,375; published Dec. 24, 1929. Class 35.
Shawmut Tire Co., Boston, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Wilmington, Del., and Watertown, Mass. Rubber vehicle tires. 76,081; renewed Dec. 14, 1929.
Shotwell Mfg. Co., The, Chicago, Ill. Marshmallows. 268,418; Mar. 11; Serial No. 269,694; published Dec. 10, 1929. Class 46.
Silent Automatic Corporation, Detroit, Mich. Liquid-fuel burners. 268,440; Mar. 11. Class 34.
Silverman, David, New Castle, Pa. Leather shoes. 268,421; Mar. 11; Serial No. 286,661; published Dec. 24, 1929. Class 39.
Simmons, George W., Corporation, New York, N. Y. Cotton bandage, absorbent cotton, etc. 268,232; Mar. 11; Serial No. 283,471; published Dec. 24, 1929. Class 44.
Simmons, George W., Corporation, New York, N. Y. Cotton bandage, absorbent cotton, etc. 268,233; Mar. 11; Serial No. 283,307; published Dec. 24, 1929. Class 44.

Simmons, George W., Corporation, New York, N. Y. Pencils, tablets, wax paper, etc. 268,240; Mar. 11; Serial No. 282,497; published Dec. 24, 1929. Class 37.
Simmons, George W., Corporation, New York, N. Y. Pencils, pads, tablets, etc. 268,241; Mar. 11; Serial No. 282,495; published Dec. 24, 1929. Class 37.
Smidth, F. L., & Co., New York, N. Y. Cement-making machinery and parts thereof. 268,224; Mar. 11; Serial No. 285,181; published Dec. 24, 1929. Class 23.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Boxes, cases, wastebaskets, etc. 268,147–8; Mar. 11; Serial Nos. 285,831–2; published Dec. 31, 1929. Class 2.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Sporting goods. 268,212; Mar. 11; Serial No. 285,836; published Dec. 31, 1929. Class 22.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Sporting goods. 268,213; Mar. 11; Serial No. 285,835; published Dec. 31, 1929. Class 22.
Société à Responsabilité Limitée Dite "Guy de Vadimon," Paris, France. Pyrophoric and friction lighters. 268,243; Mar. 11; Serial No. 282,260; published Dec. 31, 1929. Class 34.
Solar Products Company, Chicago, Ill. Polish. 268,214; Mar. 11; Serial No. 285,535; published Dec. 24, 1929. Class 16.
Solshine Manufacturing Company, Boston, Mass. Polish. 268,407; Mar. 11; Serial No. 291,802; published Dec. 24, 1929. Class 4.
Southern Grocery Company, San Marcos, Tex. Coffee. 268,356; Mar. 11; Serial No. 266,563; published Dec. 24, 1929. Class 46.
Sprague Publishing Co., The, Detroit, Mich. Magazine. 268,317; Mar. 11; Serial No. 291,533; published Dec. 17, 1929. Class 38.
Squeez-Ezy Mop Co., Inc., New Orleans, La. Floor mops. 268,225; Mar. 11; Serial No. 292,015; published Dec. 24, 1929. Class 29.
Standard Gas Equipment Corporation. (See Rathbone, Sard & Co., assignor.)
Standard-Tilton Milling Company, St. Louis, Mo. All varieties of flour milled from wheat. 268,133; Mar. 11; Serial No. 291,343; published Dec. 24, 1929. Class 46.
Star Aircraft Company, Bartlesville, Okla. Airplanes. 268,390; Mar. 11; Serial No. 292,556; published Dec. 31, 1929. Class 19.
Stein Moss & Company, Inc., New York, N. Y. Children's dresses. 268,423–4; Mar. 11; Serial Nos. 285,048–9; published Dec. 24, 1929. Class 39.
Stein, S., & Co., New York, N. Y. Woolen goods. 268,315; Mar. 11; Serial No. 291,502; published Dec. 24, 1929. Class 42.
Sterling Vegetable Growers Association, Sterling, Ill. Fresh tomatoes, peppers, and eggplant. 268,180; Mar. 11; Serial No. 287,267; published Dec. 31, 1929. Class 46.
Stern Brothers, New York, N. Y. Letterheads, correspondence cards, and stationery. 268,345; Mar. 11; Serial No. 288,670; published Dec. 24, 1929. Class 37.
Sternberg, Irving, doing business as Frenchee Chemical Co., Brooklyn, N. Y. Shoe polishes, shoe dressings, and shoe-cleaning compositions. 268,370; Mar. 11; Serial No. 291,298; published Dec. 24, 1929. Class 4.
Stevens, Ernest, Limited, Cradley Heath, England. Hollow ware. 77,525; renewed Apr. 19, 1930. Class 13.
Stox, Inc., Chicago, Ill. Board games. 268,231; Mar. 11; Serial No. 283,473; published Dec. 31, 1929. Class 22.
Strong, Carlisle & Hammond Co., The, Cleveland, Ohio. Engine stops and pump governors. 78,215; renewed May 31, 1930. Class 23.
Swartz, William L., doing business as The Pal. O. Mor. Chemical Co., Pittsburgh, Pa. Capsules for treating headaches. 268,109; Mar. 22; Serial No. 291,745; published Dec. 24, 1929. Class 6.
Syracuse Candle Co., Syracuse, N. Y. Candles. 78,661; renewed June 28, 1930. Class 15.
Tate & Lyle. (See Lyle, Abram, & Sons, Limited, assignor.)
Teschner-Myers Co., Inc., New York, N. Y. Supplies and apparatus for laboratories. 268,222; Mar. 11; Serial No. 286,141; published Dec. 24, 1929. Class 26.
Thalhimer Bros., Inc., Richmond, Va. Hosiery, underwear, and lingerie. 268,192; Mar. 11; Serial No. 291,181; published Dec. 24, 1929. Class 39.
Thau, Charles K., doing business as The Laura Hair Novelty Co., New York, N. Y. Hair nets. 268,229; Mar. 11; Serial No. 283,897; published Dec. 24, 1929. Class 42.
Tilden Company, The, New Lebanon, N. Y. Medicinal preparation. 268,204; Mar. 11; Serial No. 289,654; published Dec. 24, 1929. Class 6.
Tile & Mantel Contractors' Association of America, The, Wilmington, Del. Letterheads. 268,343; Mar. 11; Serial No. 289,134; published Dec. 17, 1929. Class 37.
Tolley, Howard B., Newark, N. J. Bread. 268,255; Mar. 11; Serial No. 291,184; published Dec. 24, 1929. Class 46.
Tonsor Company, The, St. Louis, Mo. Liquid preparation for shaving purposes. 268,418; Mar. 11; Serial No. 291,641; published Dec. 17, 1929. Class 4.
Tragasol Products Limited, Hooton, near Birkenhead, England. Vegetable mucilage. 268,357; Mar. 11; Serial No. 261,848; published Dec. 24, 1929. Class 5.
Tragasol Products Limited, Hooton, near Birkenhead, England. Vegetable mucilage. 268,358; Mar. 11; Serial No. 261,846; published Dec. 24, 1929. Class 5.
Turner, Day & Woolworth Handle Company, Louisville, Ky. Tool handles. 79,018; renewed July 26, 1930. Class 23.
Twin City Shellac Co. Inc., Brooklyn, N. Y. Lacquer and varnish. 268,286; Mar. 11; Serial No. 290,863; published Dec. 24, 1929. Class 16.
Twining, E. S., & Co., assignor to Wellington, Sears & Company, New York, N. Y. Trousers, stockings, sweaters, and shirts. 268,246; Mar. 11; Serial No. 284,550; published Dec. 17, 1929. Class 39.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Woolen yarns. 268,326; Mar. 11; Serial No. 292,344; published Dec. 24, 1929. Class 43.
Ultra Chemical Company, New York, N. Y. High-heat-resisting aluminum powder for use as paint pigment. 268,278; Mar. 11; Serial No. 291,486; published Dec. 24, 1929. Class 16.
Underhill, George E., doing business as C-Dar-Flo Manufacturing Co., Fort Wayne, Ind. Paint for clothes closets, chests, drawers, and storage rooms for clothes and furs. 268,274; Mar. 11; Serial No. 291,704; published Dec. 24, 1929. Class 16.
United Products Company, Inc., North Chicago, Ill. Benzine soaps. 268,382–4; Mar. 11; Serial Nos. 288,939–41; published Dec. 24, 1929. Class 4.
United States Rubber Company, New York, N. Y. Rubber tires for vehicles. 268,306; Mar. 11; Serial No. 278,859; published Apr. 2, 1929. Class 35.
Universal Solvent Company. (See Lambert, Howard B.)
Van Evera, Dewitt, Chicago, Ill. Leather covered goods and articles. 268,259; Mar. 11; Serial No. 290,532; published Dec. 24, 1929. Class 3.
Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. 268,263; Mar. 11; Serial No. 290,042; published Dec. 24, 1929. Class 35.
Vulcan Match Co., Inc., New York, N. Y. Matches. 268,331; Mar. 11; Serial No. 291,851; published Dec. 24, 1929. Class 9.
Vulcan Match Co., Inc., New York, N. Y. Matches. 268,386; Mar. 11; Serial No. 291,850; published Dec. 24, 1929. Class 9.
Wacyra, Joseph, Chicago, Ill. Salve. 268,445; Mar. 11. Class 6.
Wales Novelties Corporation, New York, N. Y. Cigarette and cigar cases. 268,268; Mar. 11; Serial No. 291,039; published Dec. 24, 1929. Class 8.
Walter, Fred, Hosiery Mills Inc., Nashville, Tenn. Hosiery. 268,154; Mar. 11; Serial No. 291,212; published Dec. 17, 1929. Class 39.
Walton, F. S., Company, Camden, N. J., and Philadelphia, Pa., to F. S. Walton Company, Philadelphia, Pa. Neat's-foot-oil soap for tanners' use. 76,415; renewed Jan. 11, 1930.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Tonic. 268,102; Mar. 11; Serial No. 292,133; published Dec. 24, 1929. Class 6.
Warner, Charles E., Oakland, Calif. Contract-bridge score pad. 268,344; Mar. 11; Serial No. 289,093; published Dec. 17, 1929. Class 37.
Waxed Products Co., Inc., Brooklyn, N. Y. Waxed paper. 268,349; Mar. 11; Serial No. 291,040; published Dec. 24, 1929. Class 37.
Wayburn, Ned, Studios of Stage Dancing Inc., New York, N. Y. Publication. 268,340; Mar. 11; Serial No. 289,429; published Dec. 24,1929. Class 38.
Wayburn, Ned, Studios of Stage Dancing Inc., New York, N. Y. Leaflets, pamphlets, and booklets. 268,341; Mar. 11; Serial No. 289,428; published Dec. 24, 1929. Class 38.
Wayland-Lloyd Co., Inc., Providence, R. I. Dyestuffs. 268,114; Mar. 11; Serial No. 291,852; published Dec. 24, 1929. Class 6.
Wearever Shirt Co. (See Schiffer, David H.)
Webster, William A., Company, The, Memphis, Tenn. Shaving cream. 268,401; Mar. 11; Serial No. 292,144; published Dec. 17, 1929. Class 4.
Webster, William A., Company, The, Memphis, Tenn. Shaving cream. 268,402–3; Mar. 11; Serial Nos. 292,140–1; published Dec. 17, 1929. Class 4.
Webster, William A., Company, The, Memphis, Tenn. Shaving cream. 268,404; Mar. 11; Serial No. 292,138; published Dec. 17, 1929. Class 4.
Webster, William A., Company, The, Memphis, Tenn. Shaving cream. 268,405; Mar. 11; Serial No. 292,136; published Dec. 17, 1929. Class 4.
Weisbaum Bros. Brower Company, The, Cincinnati, Ohio. Neckties. 268,151; Mar. 11; Serial No. 291,104; published Dec. 17, 1929. Class 39.
Wellington, Sears & Company. (See Twining, E. S., & Co., assignor.)
Wellington & Ward Limited, Elstree, England. Photographic sensitized plates, films, and papers. 268,447; Mar. 11. Class 26.
Western Chemical Laboratories. (See Rosenbaum, Rudolph R.)
Wetherbee-Gunn Co., Evanston, Ill. Gas-fuel burners. 268,236; Mar. 11; Serial No. 283,022; published Dec. 24, 1929. Class 34.
Wilbar's, Inc., Boston, Mass. Shoes. 268,198; Mar. 11; Serial No. 290,484; published Dec. 24, 1929. Class 39.

CARNEGIE LIBRARY OF ATLANTA

Windram Manufacturing Co., Boston and South Boston, Mass. Waterproof coats. 268,364; Mar. 11; Serial No. 276,356; published Dec. 17, 1929. Class 39.
Wisconsin Farmer Company, Racine, Wis. Publication. 268,346; Mar. 11; Serial No. 288,530; published Dec. 24, 1929. Class 38.
Wolff, Benjamin, & Company, Chicago, Ill. Sheet steel. 268,288; Mar. 11; Serial No. 290,334; published Dec. 24, 1929. Class 14.
Wolverine Shoe and Tanning Corporation, The, Rockford, Mich. Shoes. 268,422; Mar. 11; Serial No. 285,955; published Dec. 24, 1929. Class 39.
Woolson Spice Company, The, Toledo, Ohio. Coffee. 78,923–4; renewed July 19, 1930.
Yawgo Line & Twine Company, Rockville, R. I. Tarred cod and halibut lines and white cotton fishlines. 268,282; Mar. 11; Serial No. 291,251; published Dec. 24, 1929. Class 22.
Yellow Taxi Corp. New York, New York, N. Y. Taxicabs. 268,419; Mar. 11; Serial No. 269,170; published Dec. 31, 1929. Class 19.
Ynchausti & Co., Manila, P. I., and San Francisco, Calif. Manila and sisal rope and cordage. 268,322; Mar. 11; Serial No. 291,103; published Dec. 17, 1929. Class 7.
Ynchausti & Co., Manila, P. I., and San Francisco, Calif. Manila and sisal rope and cordage. 268,847; Mar. 11; Serial No. 291,102; published Dec. 17, 1929. Class 7.
Yuma Mesa Grapefruit Company, Yuma, Ariz. Fresh grapefruit. 268,173; Mar. 11; Serial No. 288,944; published Dec. 24, 1929, Class 46.
Zakonit, Inc., Boston, Mass. Knitted sweaters and bathing suits. 268,188; Mar. 11; Serial No. 291,752; published Dec. 17, 1929. Class 39.
Zierer, Ernst L., Mikosd, Hungary. Bread, biscuits, etc. 268,414; Mar. 11; Serial No. 87,043; published July 17, 1917. Class 46.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Anthony Wholesale Grocery Company, The, Anthony, Kans. King Parrot. For Canned Tomatoes. 37,194; Mar. 11.
Baker, W. M., Santa Monica, Calif. Wilshire-Valley Eggs. For Eggs. 37,195; Mar. 11.
Bischoff, F., Inc., Brooklyn, N. Y. Bischoff's Preparation. For Flavoring Syrups. 37,196; Mar. 11.
Bishop & Company, Los Angeles, Calif. Lilac Time. For Candy. 37,197; Mar. 11.
Bobrick Chemical Corporation, Los Angeles, Calif. Bobrick's Cloudy Ammonia. For Ammonia. 37,198; Mar. 11.
Bond, F. L., Ocean Park, Calif. Ranch 2-U Eggs. For Eggs. 37,199; Mar. 11.
Bridgeman-Russell Company, Inc., Buffalo, N. Y. Arrowhead Nut Margarine Oleomargarine. For Oleomargarine. 37,200; Mar. 11.
Burgess Battery Company, Madison, Wis. F4 Banner Battery. For Flash-Light Batteries. 37,201; Mar. 11.
Da Rocha, Joao M., doing business as J. M. Da Rocha Co. Firecracker Division, San Francisco, Calif. Sunburst. For Firecrackers. 37,202; Mar. 11.
Egyptian Products Co., Newark, N. J. Ra-Brand Egyptian Henna Shampoo. For Hair-Shampoo Preparation. 37,203; Mar. 11.
Egyptian Products Co., Newark, N. J. Ra-Brand Egyptian Henna. For Hair-Coloring Preparation. 37,204; Mar. 11.
Flint, Eaton & Company, Decatur, Ill. Arterocyn. For Medicinal Preparation. 37,205; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Maple Syrup. 37,206; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Salmon. 37,207; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Lobsters. 37,208; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Olive Oil. 37,209; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Pork and Beans. 37,210; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Asparagus. 37,211; Mar. 11.
Griggs, Cooper & Company, St. Paul, Minn. Home Brand. For Soda. 37,212; Mar. 11.
Hanson, Mrs. Emma, Milwaukee, Wis. Aunt Emma's Home Made Egg Noodles. For Egg Noodles. 37,213; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. M. L. & Co. For Boxes. 37,214; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. S. J. G. For Boxes. 37,215; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Princess. For Boxes. 37,216; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. L and D. For Boxes. 37,217; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Ace-Hi Shoes. For Boxes. 37,218; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Modern Sport Girl. For Boxes. 37,219; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. The Peck Shoe. For Boxes. 37,220; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. M. W. S. Co. For Boxes. 37,221; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Bett Shoe Co. For Boxes. 37,222; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Herold Bertsch Shoe Co. For Boxes. 37,223; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Bett Lee For Boxes. 37,224; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Modern Miss. For Boxes. 37,225; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Health-O-Pedic. For Boxes. 37,226; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Whoopee. For Boxes. 37,227; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. They See the Box First. For Boxes. 37,228; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Putney Products. For Boxes. 37,229; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Rosco. For Boxes. 37,230; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Happy-Feet Comforts. For Boxes. 37,231; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. H B L. For Boxes. 37,232; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Nassco. For Boxes. 37,233; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. Goldsmith's. For Boxes. 37,234; Mar. 11.
Hoague-Sprague Corporation, Lynn, Mass. The Bootery. For Boxes. 37,235; Mar. 11.
Hudson, Harriette M., Newton, Mass. Harriette's Blended-Fruit Marmalade. For Marmalade. 37,236; Mar. 11.
Huggins Bros., Van Nuys, Calif. Huggins Bros. Certified Eggs. For Eggs. 37,237; Mar. 11.
Jersey Cereal Company, Irwin, Pa. Jersey Rolled Whole Wheat. For Rolled Whole Wheat. 37,238; Mar. 11.
New Era Chemical Co., Providence, R. I. Sodium Tartrate with Citrate of Magnesia. For Effervescing Salts. 37,239; Mar. 11.
Obex Corporation, New York, N. Y. Obalex. For Tablets for Treating Obesity. 37,240; Mar. 11.
Stanton Natural Food Co., Chicago, Ill. Stanton's Vitality Food. For Prepared Food. 37,241; Mar. 11.
Stanton Natural Food Co., Chicago, Ill. Stanton's Health Wheat. For Cereal Food. 37,242; Mar. 11.
Thornton, Renee, New York, N. Y. Sweeping Imperfections Away. For Cleansing Cream. 37,243; Mar. 11.
Val Blatz Brewing Company, Milwaukee, Wis. Delight. For Malt Syrup. 37,244; Mar. 11.
Val Blatz Brewing Company, Milwaukee, Wis. Old Fashioned. For Malt Syrup. 37,245; Mar. 11.
Wallace, Oscar C., Vincennes, Ind. Dutch Maid. For Sweet Curd Creamed Cheese. 37,246; Mar. 11.
West Florida Preserving Company, Inc., Badenton, Fla. Gulf Breeze Grapefruit Juice. For Grapefruit Juice. 37,247; Mar. 11.
Wilson Brothers, Chicago, Ill. Fan-Flare Multifold Cravat. For Neckties. 37,248; Mar. 11.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

American Lead Pencil Company, Hoboken, N. J. Venus Copying Pencils. For Pencils. 12,424; Mar. 11.
American Lead Pencil Company, Hoboken, N. J. Velvet Pencil. For Pencils. 12,425; Mar. 11.
Black, Starr & Frost-Gorham, Inc., New York, N. Y. We Start the New Year with a New Store, Etc. For Jewelry and Silverware. 12,426; Mar. 11.
Boston Varnish Company, Boston, Mass. Look Around Your Home, Your Guests Do K-930. For Varnish and Enamel. 12,427; Mar. 11.
Boston Varnish Company, Boston, Mass. Kyanize Floor Enamel K-415. For Floor Enamel. 12,428; Mar. 11.
Boston Varnish Company, Boston, Mass. Kyanize Lastaquik Finish K-715. For Varnish and Enamel. 12,429; Mar. 11.
Boston Varnish Company, Boston, Mass. Kyanize Celoid Finish K-515. For Varnish and Enamel. 12,430; Mar. 11.
Boston Varnish Company, Boston, Mass. Kyanize Floor Finish K-315. For Floor Varnish and Enamel. 12,431; Mar. 11.
Boston Varnish Company, Boston, Mass. Look Around Your Home, Your Guests Do K-950. For Varnish and Enamel. 12,432; Mar. 11.

Boston Varnish Company, Boston, Mass. Kyanize Celoid Finish K-501. For Varnish and Enamel. 12,433; Mar. 11.

Boston Varnish Company, Boston, Mass. Kyanize Lustaquik Finish K-701. For Varnish and Enamel. 12,434; Mar. 11.

Boston Varnish Company, Boston, Mass. Kyanize Floor Finish K-301. For Floor Varnish and Enamel. 12,435; Mar. 11.

Boston Varnish Company, Boston, Mass. Kyanize Floor Enamel K-401. For Floor Enamel. 12,436; Mar. 11.

Boston Varnish Company, Boston, Mass. Look Around Your Home, Your Guests Do K-501. For Celoid Finish. 12,437; Mar. 11.

Boston Varnish Company, Boston, Mass. Look Around Your Home, Your Guests Do K-303. For Floor Finish. 12,438; Mar. 11.

Boston Varnish Company, Boston, Mass. Look Around Your Home, Your Guests Do K-701. For Lustaquik Finish. 12,439; Mar. 11.

Boston Varnish Company, Boston, Mass. Look Around Your Home, Your Guests Do K-403. For Floor Enamel. 12,440; Mar. 11.

G. H. P. Cigar Co., Inc., Philadelphia, Pa. El Producto, Mild, for Real Enjoyment. For Cigars. 12,441; Mar. 11.

G. H. P. Cigar Co., Inc., Philadelphia, Pa. El Producto for Real Enjoyment. For Cigars. 12,442–3; Mar. 11.

Johnson, A. S., Fish Co., Duluth, Minn. Johnson's Sea-Cliff Oysters. For Oysters. 12,444; Mar. 11.

Nashville Coal Company, Nashville, Tenn. Williams Powerful Coal. For Coal. 12,445; Mar. 11.

Premier Malt Products Co., Peoria, Ill. Wherever You Go—You Find Blue Ribbon Malt. For Malt Extract. 12,446; Mar. 11.

Texas Petroleum Company, San Antonio, Tex. Sterlene. For Petroleum Products. 12,447; Mar. 11.

Texas Petroleum Company, San Antonio, Tex. R E V. For High-Velocity Motor Fuel. 12,448; Mar. 11.

Texas Petroleum Company, San Antonio, Tex. Ster-O-Clean. For Cleaner's Naphtha. 12,449; Mar. 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A-P Laboratories. (See Pruitt, A. H.)

Abbott Laboratories, Chicago, Ill. Nose and throat spray. 295,243; Mar. 11. Class 6.

Advertising Displays, Inc., Covington, Ky. Advertising display devices. 293,912; Mar. 11. Class 32.

Alitak Fish Company, Bellingham, Wash., and Kodia Island, Alaska. Canned salmon. 294,535; Mar. 11. Class 46.

Alitak Fish Company, Bellingham, Wash., and Kodia Island, Alaska. Canned salmon. 294,537; Mar. 11. Class 46.

Alpha Tank & Sheet Metal Mfg. Co., The, St. Louis, Mo. Metal storage tanks, bins, vats. 290,732; Mar. 11. Class 2.

Alvarez, M. Vidal, & Co., Ponce, P. R. Suits and overcoats. 292,383; Mar. 11. Class 39.

American Bureau of Chiropractic, New York, N. Y. Printed publication. 286,968; Mar. 11. Class 38.

American Coffee Corporation, New York, N. Y. Coffee. 295,202; Mar. 11. Class 46.

American Loose Leaf Corporation, New York, N. Y. Loose-leaf binders. 292,607; Mar. 11. Class 37.

American Sundries Co., Inc., Brooklyn, N. Y. Medicinal preparation. 295,289; Mar. 11. Class 6.

Amiesite Asphalt Company of America, Camden, N. J., and Philadelphia, Pa. Paving material. 294,378; Mar. 11. Class 12.

Andrews, O. B., Company, The, Chattanooga, Tenn. Wood and fibre packing boxes and cartons. 288,049; Mar. 11. Class 2.

Ansonia O & C Company, The, Ansonia, Conn. Hose supporters and hose-supporter grips. 284,433; Mar. 11. Class 39.

Arnold Bros., Chicago, Ill. Hams. 293,567; Mar. 11; Class 46.

Arnold Shirt Company, New York, N. Y. Shirts. 293,947; Mar. 11. Class 39.

Assembled Products Company, Inc., New York, N. Y. Bias binding. 293,948–50; Mar. 11. Class 40.

Associated Merchandising Corporation, New York, N. Y. Dresses, coats, shoes, etc. 288,773; Mar. 11. Class 39.

Aviation Accessories Corporation, San Francisco, Calif. Device for heating the oil in internal-combustion engines in circulating electric heaters. 293,810; Mar. 11. Class 21.

Baker & Company, Inc., Newark, N. J. Metals of the platinum group. 294,335; Mar. 11. Class 14.

Baldwin Company, The, Cincinnati, Ohio. Radio receiving sets and loud-speakers, antennæ, transformers, etc. 278,924; Mar. 11. Class 21.

Baldwin Perfumery Company, doing business as Baldwin, Chicago, Ill. Perfume, toilet water, sachet, face creams, etc. 294,051; Mar. 11. Class 6.

Barry Food Products, Inc., Buffalo, N. Y. Canned baked beans, spaghetti, cake mixes, etc. 291,960; Mar. 11. Class 46.

Baum, Joseph G., New York, N. Y. Underwear and shirts and trunks. 285,440; Mar. 11. Class 39.

Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Arctics. 294,202; Mar. 11. Class 39.

Bearfoot Sole Company, Inc., The, Boston, Mass. Soles of rubber composition, etc., for boots and shoes. 294,660; Mar. 11. Class 39.

Beckman-Dawson Roofing Co., Chicago, Ill. Coated wooden shingles. 292,862; Mar. 11. Class 12.

Belknap Hardware & Manufacturing Company, Louisville, Ky. Mattresses. 288,635; Mar. 11. Class 32.

Berg Heating and Ventilating Co., Los Angeles, Calif. Heating systems, ventilating systems, cooling systems, etc. 293,311; Mar. 11. Class 34.

Berlits, M. D., Publisher, New York, N. Y. Printed books and charts. 292,791; Mar. 11. Class 38.

Bernat, Emile, & Sons Co., Jamaica Plain, Mass. Yarn. 294,909; Mar. 11. Class 43.

Billings & Spencer Company, The, Hartford, Conn. Tools and machinery. 290,647; Mar. 11. Class 23.

Black Manufacturing Co., The, Seattle, Wash. Shirts. 294,912; Mar. 11. Class 39.

Blue Ribbon Chemical Co., Kansas City, Mo. Liquid medicine. 295,248; Mar. 11. Class 6.

Borowikow, Boris, doing business as Borowikow Laboratories Co., Brooklyn, N. Y. Creams for disorders of the skin. 295,010; Mar. 11. Class 6.

Bouy Incorporated, New York, N. Y. Electric floor lamps, table lamps, and ceiling fixtures. 268,910; Mar. 11. Class 21.

Boy-Craft, Inc., New York, N. Y. Boys' blouses, shirts, and pajamas. 295,011; Mar. 11. Class 39.

Bradstone Rubber Company, Woodbine, N. J. Rubber heels. 294,012; Mar. 11. Class 39.

Brennan, Daniel A., Chicago, Ill. Fasteners and binders for binding and holding loose papers together. 290,114; Mar. 11. Class 37.

Briquet Company of America. (See Nicholas, Richmond.)

Brüder Böhm, Vienna, Austria. Hair, wool, or velour felts and felts of other material. 291,756; Mar. 11. Class 50.

Buckingham Manufacturing Company, St. Louis, Mo. Soapless shaving cream. 290,487; Mar. 11. Class 4.

Burndy Engineering Company, Inc., New York, N. Y. Electrical conductor tube, copper conductor cable, couplers, etc. 277,198; Mar. 11. Class 21.

Bush-Brown, Lydia, New York, N. Y. Silk wall drapes. 295,457; Mar. 11. Class 42.

C. M. R. Mfg. Co. (See Rosenbaum, Charles M.)

Calsodent Company, Inc., New York, N. Y. Toothbrushes. 284,899; Mar. 11. Class 29.

Canfield Oil Company, The, Cleveland, Ohio. Lubricating oils. 294,472; Mar. 11. Class 15.

Cavanagh, John, Ltd., New York, N. Y. Hatboxes, hat trunks, and traveling cases for canes. 294,340; Mar. 11. Class 3.

Chajud, Salomon, Las Juntas, Abangares, Costa Rica. Salve or ointment. 281,259; Mar. 11. Class 6.

Chemical Compounding Corporation, Brooklyn, N. Y. Insecticides, disinfectants, etc. 288,585; Mar. 11. Class 6.

Chrysler Corporation, Detroit, Mich. Automobiles and their structural parts. 283,553; Mar. 11. Class 19.

Clay & Abraham Ltd., Liverpool, England. Preparation of iodine, preparation of hydrogen peroxide, and a preparation for application to corns. 293,265; Mar. 11. Class 6.

Cluett, Peabody & Co., Inc., Troy, N. Y. Underwear. 294,248; Mar. 11. Class 39.

Colzate-Palmolive-Peet Company, Chicago, Ill. Soap. 288,317; Mar. 11. Class 4.

Consolidated Factories, Ltd., Santa Ana, Calif. Glass drawer knobs and pulls and glass door knobs. 293,028; Mar. 11. Class 13.

Continent Import Co. (See Granitz, Leopold.)

Continental Typefounders Association, Inc., New York, N. Y. Matrices for the production of printer's type. 294,147; Mar. 11. Class 50.

Cotton Belt Drug Company, Augusta, Ga. Preparation for the relief of pain. 292,524; Mar. 11. Class 6.

Coty, Inc., Wilmington, Del., and New York, N. Y. Nail polish. 294,623; Mar. 11. Class 6.

Craftone Manufacturing Company. (See Herwig, Harry W.)

Crittenden, E. T., Denver, Colo. Gasoline, lubricating oils, and greases. 294,058; Mar. 11. Class 15.

Davila, C., assignor to The Rino Laboratories Company, Los Angeles, Calif. Stimulant and laxative. 292,442; Mar. 11. Class 6.

Delta Chi Fraternity, The, Iowa City, Iowa. Buttons of precious metal. 276,307; Mar. 11. Class 28.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Dewey & Almy Chemical Company, North Cambridge, Mass. Adhesives. 294,065; Mar. 11. Class 5.

Dewey & Almy Chemical Company, North Cambridge, Mass. Separator plates for storage batteries. 295,294; Mar. 11. Class 21.

Dorman, Benjamin, Brooklyn, N. Y. Olive oil. 283,181; Mar. 11. Class 46.

Dormeyer, A. F., Mfg. Co. (See MacLeod Manufacturing Co., Inc., assignor.)

Dryice Corporation of America, New York, N. Y., and Elizabeth, N. J. Carbon dioxide (CO_2). 294,871; Mar. 11. Class 6.

Eastman Kodak Company, Rochester, N. Y. Photographic cameras, films, and printing frames, etc. 294,960; Mar. 11. Class 26.

Ebrey Chemical Works, Inc., New York, N. Y. Medicine. 293,415; Mar. 11. Class 6.

Economy Stoker Company, Salt Lake City, Utah. Stokers. 293,877; Mar. 11. Class 34.

Eny Art, Inc., New York, N. Y. Glass valances and pieces of decorated and carved glass. 289,884; Mar. 11. Class 33.

Everett Fruit Products Company, Everett, Wash. Canned fruits and vegetables, jams, jellies, etc. 288,788; Mar. 11. Class 46.

Exclusive Chemicals, Inc., Dallas, Tex. Mouth wash and gargle. 295,511; Mar. 11. Class 6.

F O R Laboratories. (See Ringnell, Frank O.)

F-S Mfg. Co. Inc., New Holstein, Wis. Sled-propulsion attachments for automobiles. 292,161; Mar. 11; Class 19.

Fagley & Halpen, Philadelphia, Pa. Combination utensils. 290,943; Mar. 11. Class 13.

Feibusch, M., San Francisco, Calif. Canned fruits, vegetables, fish. 270,122; Mar. 11. Class 46.

Fergus & Palmer, Cleveland, Ohio. Coin-controlled or slug-controlled merchandise-dispensing devices and parts of such devices. 290,506; Mar. 11. Class 23.

Field & Flint Co., Brockton, Mass. Boots and shoes. 288,745; Mar. 11. Class 39.

Forest City Mfg. Co., St. Louis, Mo. Outer wearing apparel. 287,749; Mar. 11. Class 39.

Forhan Company, assignor, by mesne assignments, to Forhan Company, Inc., New York, N. Y. Pyorrhea preparation. 293,422; Mar. 11. Class 6.

Frands, Erwin Z., doing business as Frands Sales Agency, Chicago, Ill. Polish and cleaner. 287,440; Mar. 11. Class 16.

Franklin Simon & Co. Inc., New York, N. Y. Furnishings, undergarments, and clothing. 294,929; Mar. 11. Class 39.

Garment Sales Company, New York, N. Y. Coats. 291,387; Mar. 11. Class 39.

Garske, Leo G., Minneapolis, Minn. Preparations for the treatment of ailments in the stomach. 294,668; Mar. 11. Class 6.

General Motors Corporation, Detroit, Mich. Radio receiving sets and parts thereof. 295,258; Mar. 11. Class 21.

General Printing Ink Corporation, New York, N. Y. Periodical publication. 293,827; Mar. 11. Class 38.

Godde, Albert, Bedin, Inc., New York, N. Y. Dress fabrics of silk. 278,592; Mar. 11. Class 42.

Goldenberg, Morton H., doing business as "Goldenberg's" Washington, D. C. Textile bath mats and awning fabrics. 276,693; Mar. 11. Class 42.

Goldenberg, Morton H., doing business as Goldenberg's, Washington, D. C. Shirts, underwear, and pajamas. 290,021; Mar. 11. Class 39.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Pneumatic and solid tires. 276,417; Mar. 11. Class 35.

Gorman, R. P., & Cobbe, Ltd., Belfast, North Ireland. Cotton handkerchiefs. 294,522; Mar. 11. Class 42.

Graham-Paige Motors Corporation, Dearborn, Mich. Commercial motor cars, chassis, and constructive parts. 294,421; Mar. 11. Class 19.

Granitz, Leopold, doing business as Continent Import Co., New York, N. Y. Pine-needle extract combined with bath salts. 294,875; Mar. 11. Class 6.

Great Council of the United States of the Improved Order of Red Men, Philadelphia, Pa. Badges, emblems, finger rings, etc. 292,804; Mar. 11. Class 28.

Greenebaum, J., Tanning Company, Milwaukee, Wis. Leather. 285,456; Mar. 11. Class 1.

Haas, Baruch & Company, Los Angeles, Calif. Canned fruits, canned vegetables, canned fish, etc. 295,161; Mar. 11. Class 46.

Hadensa Gesellschaft m. b. H., Berlin-Lichterfelde, Germany. Salve. 294,525; Mar. 11. Class 6.

Hadensa Gesellschaft m. b. H., Berlin-Lichterfelde, Germany. Preparation for treating eczema. 294,526; Mar. 11. Class 6.

Handmacher-Michel Company, Chicago, Ill. Coats. 293,730; Mar. 11. Class 39.

Harley-Davidson Motor Company, Milwaukee, Wis. Motor cycles. 295,371; Mar. 11. Class 19.

Harrison's Orange Huts, Inc., Chicago, Ill. Sandwiches, candy, buns, etc. 277,626–8; Mar. 11. Class 46.

Hartsdale Research Laboratories, Inc., Hartsdale, N. Y. Cleansing compound. 293,731; Mar. 11. Class 4.

Herwig, Harry W., doing business as Craftone Manufacturing Company, Boston, Mass. Plastic paint. 295,028; Mar. 11. Class 16.

Henderson, W. K., Iron Works and Supply Co. Ltd., The, Shreveport, La. Canned coffee. 281,290; Mar. 11. Class 46.

Hinde & Dauch Paper Company, The, Sandusky and Delphos, Ohio; Chicago, Ill.; Philadelphia, Pa.; New York, N. Y.; and Muncie, Ind. Boxes and cartons. 288,770; Mar. 11. Class 2.

Hirsch, Herman J., doing business as Hollow Tree Pantry, Milwaukee, Wis. Nut candies. 294,223; Mar. 11. Class 46.

Holdfast Mfg. Company, Philadelphia, Pa. Fire-brick cement. 288,616; Mar. 11. Class 12.

Hollow Tree Pantry. (See Hirsch, Herman J.)

Holloway, M. J., & Company, Chicago, Ill. Candy. 294,724; Mar. 11. Class 46.

Hookless Fastener Company, Meadville, Pa. Separable fasteners. 293,880; Mar. 11. Class 13.

Housh Company, Inc., The, Boston, Mass. Picture frames. 294,773; Mar. 11. Class 32.

Howard Paper Company, Inc., Boston, Mass. Die-wiping paper. 295,029; Mar. 11. Class 37.

Huegel-Nugent Petroleum Company, Chicago, Ill. Lubricating oil. 294,973; Mar. 11. Class 15.

Hyde Manufacturing Company, Southbridge, Mass. Plumb bobs, straightedges, rules and chalk lines. 293,834; Mar. 11. Class 26.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Underwear, hats, gloves, etc. 287,180; Mar. 11. Class 39.

Industrial Gasket and Packing Co. (See Werfelman, George H.)

Ivy, Francis B., New York, N. Y. Fountain pens and parts thereof. 295,225; Mar. 11. Class 37.

Jakopec-Samu Company, Chicago, Ill. Game. 294,261; Mar. 11. Class 22.

Jarisch, jr., Henry, Holyoke, Mass. Toilet paper, paper towels, paper napkins. 293,975; Mar. 11. Class 37.

Johnson & Johnson, New Brunswick, N. J. Bandages. 277,801; Mar. 11. Class 44.

Josey-Miller Company, Beaumont, Tex. Stock feed. 289,191; Mar. 11. Class 46.

Kaufmann Bros. & Bondy, Inc., West New York, N. J. Fountain pens. 293,051; Mar. 11. Class 37.

Kaufmann Department Stores, Inc. (See Power, Lorenzo A. R.)

Kaylon Incorporated, Troy and New York, N. Y. Shirts. 294,878–81; Mar. 11. Class 39.

Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Shaft bench grinders and parts thereof. 293,024; Mar. 11. Class 23.

Kellogg Box Board Company, Chicago, Ill. Waterproofed paper. 292,111; Mar. 11. Class 37.

Kent, Louise Inc., Brooklyn, N. Y. Cosmetics. 293,734; Mar. 11. Class 6.

Kestenman Bros. Mfg. Co., Providence, R. I. Wrist-watch bracelets. 287,256; Mar. 11. Class 28.

Kiefer Stewart Company, Indianapolis, Ind. Display stand. 288,655; Mar. 11. Class 32.

Kleer-A-Kold Co., Milwaukee, Wis. Pharmaceutical preparation for the treatment of colds. 295,226; Mar. 11. Class 6.

Knox Hat Company, Inc., New York, N. Y. Handkerchiefs and veils. 284,911; Mar. 11. Class 42.

Knox Hat Company, Inc., New York, N. Y. Handkerchiefs and veils. 285,159; Mar. 11. Class 42.

Kohvakka, Otto, San Francisco, Calif. Medicinal preparation. 292,040; Mar. 11. Class 6.

Koppers Products Company, Pittsburgh, Pa. Insecticides. 286,942; Mar. 11. Class 6.

Krim, Max, doing business as Krim Beverage Company, Lebanon, Pa. Soft drinks. 293,330; Mar. 11. Class 45.

La Teste Home Made Candies, Chicago, Ill. Homemade candies. 293,736; Mar. 11. Class 46.

Leaksville Woolen Mills, Inc., The, Charlotte, N. C. All-wool blankets. 293,474; Mar. 11. Class 42.

Lentini, Ignasio, doing business as North Star Malt Co., Woburn, Mass. Malt extracts. 278,299; Mar. 11. Class 46.

Leventhal, I., and Sons, West Brighton, N. Y. Foot apparel. 292,453; Mar. 11. Class 39.

Logan Laboratories, Ltd., New York, N. Y. Electrical device. 293,926; Mar. 11. Class 44.

Lutton, William H., Company, Jersey City, N. J. Greenhouses and constructive parts of greenhouses, etc. 287,147; Mar. 11. Class 12.

Luyna. (See Parfumerie Monpelas, Steinfels Freres & Cie., Societe a Responsabilite Limitee.)

Macbeth-Evans Glass Company, Charleroi, Pa. Glass globes. 295,525; Mar. 11. Class 33.

MacLeod Manufacturing Co., Inc., The, assignor to A. F. Dormeyer Mfg. Co., Chicago, Ill. Scrapers for glass, wood, metal, etc. 289,468; Mar. 11. Class 23.

Maier, Bertram B., doing business as Windsor Park Chemical Company, Chicago, Ill. Liquid medicinal preparation. 287,082; Mar. 11. Class 6.

Maison de Paris. (See Paskin, Ruth.)

Manchester Engineering & Welding Co., Inc., Manchester, N. H. Metal stairs, fire escapes, pipe railings, etc. 293,085; Mar. 11. Class 12.
Maneval, Rex W., doing business as The Maneval Chickeries, Frankfort, Kans. Chicks. 294,585; Mar. 11. Class 46.
Marabate, Arthur, doing business as Marabate Products Company, Detroit, Mich. Metal polishes and refinishers 287,148; Mar. 11. Class 4.
McKesson & Robbins, Incorporated, Bridgeport, Conn. Periodical. 290,138; Mar. 11. Class 38.
McKimmie Motor Co. Inc., Richmond, Va. Covers for the spare tires. 275,534; Mar. 11. Class 35.
McQueen Bacteria Company, The, Baltic, Ohio. Soil and seed inoculator. 292,542; Mar. 11. Class 10.
Mettler, Lee B doing business as Lee B. Mettler Co., Los Angeles, Calif. Gas and oil burners, fire pots, etc. 294,079; Mar. 11. Class 34.
Millbrooks Restaurants Inc., New York, N. Y. Coffee, cookies, cake, etc. 293,920; Mar. 11. Class 46.
Miller, George L., doing business as Miller Dental Laboratory, Boston, Mass. Ligatures or clamps for mouthpieces of musical instruments. 286,647; Mar. 11. Class 36.
Miller's, Jacob, Sons Co., Philadelphia, Pa. Neckties. 293,003; Mar. 11. Class 39.
Mock, Judson, Voehringer Co. Inc., Long Island City, N. Y. Hosiery. 291,630; Mar. 11. Class 39.
Musick's, Richard B., Compound Company, Los Angeles, Calif. Medical compound. 294,037; Mar. 11. Class 6.
National Foods Inc., New Orleans, La. Oleomargarine. 269,479; Mar. 11. Class 46.
National Trade Journals, Inc., New York, N. Y. Monthly publication. 287,358; Mar. 11. Class 38.
New England Wood Heel Co., Haverhill, Mass. Wood heels. 295,129; Mar. 11. Class 39.
Newton, Frank H., Los Angeles, Calif. Cosmetic for the hair and scalp. 292,591; Mar. 11. Class 6.
New York Automobile Club, Inc., New York, N. Y. Periodical publications. 294,038; Mar. 11. Class 38.
Nicholas, Richmond, doing business as Briquet Company of America, Chicago, Ill. Briquets of coal and coke. 293,538; Mar. 11. Class 1.
North Platte Valley Co-Operative Cheese Company, Scottsbluff, Nebr. Dressed poultry, eggs, butter, and cheese. 289,532; Mar. 11. Class 46.
North Star Malt Co. (See Lentini, Ignasio.)
Northwestern Upholstering Company, The, Minneapolis, Minn. Davenports, chairs, benches, etc. 294,317; Mar. 11. Class 32.
Nunnally & McCrea Co., Atlanta, Ga. Overalls, work jackets, work shirts, and work pants. 294,855–6; Mar. 11. Class 39.
Nu-Rex Products Co. (See Weeks, Elling O.)
Old Colony Envelope Company, Westfield, Mass. Envelopes. 292,546; Mar. 11. Class 37.
Onsrud Machine Works, Inc., Chicago, Ill. Woodworking machinery. 292,548; Mar. 11. Class 23.
Orrsell Company, The, New York, N. Y.; Philadelphia, Pa.; and Vancouver, Wash. Adhesive compounds. 293,684; Mar. 11. Class 5.
O'Sullivan, David L., New York, N. Y. Hypodermic syringes. 294,992; Mar. 11. Class 44.
Ozark Smelting & Mining Company, Chicago, Ill. Lithopone and combinations of lithopone with zinc oxide, etc. 294,083; Mar. 11. Class 16.
Parfumerie Monpelas, Steinfels Freres & Cie., Societe a Responsabilite Limitee, and doing business as Luyna, Vincennes, France. Perfumes, toilet water, face creams, etc. 294,483; Mar. 11. Class 6.
Paskin, Ruth, doing business as Maison de Paris, New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 295,493; Mar. 11. Class 6.
Pillsbury Flour Mills Company, Minneapolis, Minn. Prepared composition for the making of doughnuts. 295,273; Mar. 11. Class 46.
Pohlens & Salcedo, Mexico, Mexico. Medicine used in the treatment of tuberculosis. 293,154; Mar. 11. Class 6.
Pond's Extract Company, New York, N. Y. Tissue paper. 294,593; Mar. 11. Class 37.
Porzellanfabrik Waldershof Aktiengesellschaft vormals Johann Haviland, Waldershof, Germany. Porcelain ware. 286,952; Mar. 11. Class 30.
Power, Lorenzo A. R., doing business as Kaufmann Department Stores, Inc., Pittsburgh, Pa. Mufflers and scarfs. 287,717; Mar. 11. Class 39.
Presto Electric Roaster Company, Pittsburgh, Pa. Electric meat roasters. 291,175; Mar. 11. Class 21.
Priscilla Sears Confectionery Company, Boston, Mass. Candy. 277,964; Mar. 11. Class 46.
Procter & Gamble Company, The, Cincinnati, Ohio. Material composed of saturated fatty acids. 283,004; Mar. 11. Class 6.
Pruitt, A. H., doing business as A-P Laboratories, Wichita, Kans. Lice powder, tablets for purifying drinking water for poultry, and worm capsules. 294,825; Mar. 11. Class 6.
Quaker Silver Company, Attleboro, Mass. Salt and pepper shakers, candlesticks, vases, etc. 293,896; Mar. 11. Class 28.
Raab, M. H., Co. Inc., Philadelphia, Pa. Shirts. 294,362; Mar. 11. Class 39.
Reynier & Co., New York, N. Y. Gloves. 294,543; Mar. 11. Class 39.
Rickel, Walter J., doing business as United Purchasing Co., Chicago, Ill. Chocolate frosting for food purposes. 294,893; Mar. 11. Class 46.
Ringnell, Frank O., doing business as F O R Laboratories, Glendale, Calif. Skin cream. 294,086; Mar. 11. Class 6.
Rino Laboratories Company, The. (See Davila, C., assignor.)
Rodale Manufacturing Company, New York, N. Y. Electrical wiring devices, electrical specialties and heating devices, push buttons, etc. 289,304; Mar. 11. Class 21.
Rogers, J., Silver Co., New York, N. Y. Silver-plated articles. 290,664; Mar. 11. Class 28.
Rosenbaum, Charles M., doing business as C. M. R. Mfg. Co., New York, N. Y. Medicinal preparations for the treatment of coughs, colds, etc. 294,778; Mar. 11. Class 6.
Rosenbaum, Charles M., doing business as C. M. R. Mfg. Co., New York, N. Y. Medicine. 294,779; Mar. 11. Class 6.
Royal Typewriter Company, Inc., New York, N. Y. Typewriting machines and parts thereof. 295,305; Mar. 11. Class 23.
Roze-In-Ize, Inc., Boston, Mass. Preparation for treating cut soles to produce longer life. 294,545; Mar. 11. Class 6.
Russell, W. A., & Co., New York, N. Y. Air valves for steam radiators. 294,321; Mar. 11. Class 13.
Sandeman, Geo. G., Sons & Co. Ltd., London, England. Distilled alcoholic spirits. 278,141; Mar. 11. Class 49.
Schering & Glatz, Inc., New York, N. Y. Medicinal preparation. 285,178; Mar. 11. Class 6.
Schicht, Georg A. G., Aussig, Czechoslovakia. Perfumeries, cologne waters, bath salts, face creams, etc. 279,888; Mar. 11. Class 6.
Schlosser, Harry C., San Jose, Calif. Imitation marble. 293,558; Mar. 11. Class 12.
Schwartz, David, New York, N. Y. Column or section of a newspaper or magazine. 295,279; Mar. 11. Class 38.
Scott Paper Company, Chester, Pa. Toilet paper, paper towels, and paper napkins. 285,477–8; Mar. 11. Class 37.
Sears, Roebuck and Co., Chicago, Ill. Electric sadirons. 295,280; Mar. 11. Class 21.
Selective Phonograph and Radio Corporation, Grand Rapids, Mich. Radio receiving sets adapted for combination with phonographs. 292,833; Mar. 11. Class 21.
Seltzer, Leonard A., doing business as Seltzer, Detroit, Mich. Medicinal solution. 294,026; Mar. 11. Class 6.
Slothower Bros. & Sons, Harrisburg, Pa. Liniment, corn salve, white pin cough syrup, etc. 293,605; Mar. 11. Class 6.
Smith, Carroll Dunham, Pharmacal Co., New York, N. Y. Alterative, analgesic, antacid, etc. 270,014; Mar. 11. Class 6.
Smith & Nichols, Inc., New York, N. Y. Wax lamps and candlesticks. 294,091; Mar. 11. Class 34.
Smoky Hollow Coal Co., Albia, Iowa. Coal. 293,114; Mar. 11. Class 1.
Société Anonyme M. Naef & Cie., Geneva, Switzerland. Artificial and synthetic perfumes, essential oils. 295,087; Mar. 11. Class 6.
Société Anonyme M. Naef & Cie., Geneva, Switzerland. Perfumes, essential oils. 295,089; Mar. 11. Class 6.
Société des Magnétos R. B., Paris, France. Electric battery. 294,897; Mar. 11. Class 21.
Spann & Tomlin Seaside Mfg. Co., The, Tulsa, Okla. Complexion cream and face lotion. 291,700; Mar. 11. Class 6.
Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; New York, N. Y. Phosphate and lactate mixture. 295,397; Mar. 11. Class 6.
Star Can Opener Company, San Francisco, Calif. Can openers. 294,694; Mar. 11. Class 28.
Step-In-All Underwear Corporation, The, Springfield, Mass. Sport shirts. 294,908; Mar. 11. Class 39.
Strawbridge & Clothier, Philadelphia, Pa. Gloves. 293,904; Mar. 11. Class 39.
Stuhr-Seidl Company, Minneapolis, Minn. Food concentrates for fowls and animals. 291,805; Mar. 11. Class 46.
Sunshine Coal Company, Centerville, Iowa. Coal. 293,800; Mar. 11. Class 1.
Swan Pencil Co. Inc., New York, N. Y. Pencils and penholders. 295,350; Mar. 11. Class 37.
Texas Company, The, Wilmington, Del., and New York, N. Y. Petroleum products. 294,831; Mar. 11. Class 15.
Thomson-Gibb Electric Welding Company, Lynn, Mass. Electric metal-working apparatus and parts of such apparatus. 293,388; Mar. 11. Class 21.
Thornton, Renée, New York, N. Y. Perfumes. 294,494; Mar. 11. Class 6.
Thum, O. & W., Company, The, Grand Rapids, Mich. Insecticide. 290,853; Mar. 11. Class 6.
Time-O-Stat Controls Company, Elkhart, Ind. Automatic electric temperature, pressure, float, and time responsive devices and replacement parts thereof, etc. 289,425; Mar. 11. Class 21.

Trepel, Casper C., Farmingdale, N. Y. Cut flowers and shrubs. 292,763; Mar. 11. Class 1.
Triangle Traveling Bag Works, Inc., Cincinnati, Ohio. Trunks, traveling bags, over-night bags, etc. 290,096; Mar. 11. Class 3.
Tuttle & Bailey Manufacturing Company, New York, N. Y. Heating registers. 294,824; Mar. 11. Class 34.
Twin Coupler Company, Inc., Poughkeepsie, N. Y. Pyrophoric cigarette and cigar lighters. 287,599; Mar. 11. Class 34.
Twin Coupler Company, Inc., Poughkeepsie, N. Y. Fruit-juice extractors. 287,600; Mar. 11. Class 23.
United Purchasing Co. (See Rickel, Walter J.)
United States Playing Card Co., The, Norwood, Ohio. Playing cards. 295,309; Mar. 11. Class 22.
United States Power Squadrons, Inc., Washington, D. C. Magazines and instruction sheets. 292,013; Mar. 11. Class 38.
United States Refining Company, Los Angeles, Calif. Oils and greases or petroleum products. 293,390; Mar. 11. Class 15.
Van Raalte Company, New York, N. Y. Women's and children's underwear. 294,936; Mar. 11. Class 39.
Vaskos, Mike H., Beloit, Wis. Powder preparation for use in the treatment of piles. 291,034; Mar. 11. Class 6.
Verdon, William P., sr., Hoboken, N. J. Electric non-glare fog-penetrating lights. 291,371; Mar. 11. Class 21.
Victor Manufacturing & Gasket Company, Chicago, Ill. Gaskets. 292,238; Mar. 11. Class 35.
Vilo Manufacturing Co., Chicago, Ill. Coated fabric. 293,991; Mar. 11. Class 50.
Wanamaker, John, New York, New York, N. Y. Bath robes, shoes, hats, etc. 290,636; Mar. 11. Class 39.
Watkins, R. L., Company, The, New York, N. Y. Dentifrice. 271,415; Mar. 11. Class 6.
Watkins, R. L., Company, The, New York, N. Y. Dentifrice. 271,462; Mar. 11. Class 6.
Watkins, R. L., Company, The, New York, N. Y. Dentifrice. 271,631; Mar. 11. Class 6.
Watkins, R. L., Company, The, New York, N. Y. Dentifrice. 271,671; Mar. 11. Class 6.
Weeks, Elling O., doing business as Nu-Rex Products Co., Milwaukee, Wis. Surface-refinishing liquids. 271,463; Mar. 11. Class 16.
Werfelman, George H., doing business as Industrial Gasket and Packing Co., Los Angeles, Calif. Radiator cleaning compound and rust preventive. 295,311; Mar. 11. Class 6.
West Florida Preserving Company, Inc., Brandenton, Fla. Canned grapefruit juice and canned tomato juice. 294,865; Mar. 11. Class 46.
Western Chemical Company, St. Joseph, Mo. Soaps and cleaners and sweeping compounds. 294,407; Mar. 11. Class 4.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 291,749; Mar. 11. Class 46.
Wilcox Novelty Company, The, Athol, Mass. Bob sets, buttonhooks, combs, etc. 288,042; Mar. 11. Class 40.
Windsor Park Chemical Company. (See Maier, Bertram B.)
Wiscassett Mills Company, Albemarle, N. C. Hosiery. 294,372; Mar. 11. Class 39.
Witt's Market House, Minneapolis, Minn. Dressed poultry. 295,287; Mar. 11. Class 46.
Yaqui Fruit Co., Los Angeles, Calif. Fruits and vegetables. 294,102; Mar. 11. Class 46.
Zierer, Alfred, Vienna, Austria. Diabetic milk and milk products. 285,763; Mar. 11. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Arctic Fuel Company. 268,101; Mar. 11; Serial No. 287,326; published Dec. 3, 1929.
Coal and coke. Independent Coal & Coke Co. 76,592; renewed Feb. 1, 1930.
Coal and coke. Independent Coal & Coke Co. 76,917–8; renewed Feb. 22, 1930.
Leathers, Side. S. B. Foot & Co. 78,504; renewed June 21, 1930.

CLASS 2

Boxes and cases, Emtpy. Schall & Cie. 268,363; Mar. 11; Serial No. 276,459; published Dec. 24, 1929.
Boxes, cases, wastebaskets, etc. Società Invensioni Brevetti Anonima-Torino. 268,147–8; Mar. 11; Serial Nos. 285,831–2; published Dec. 31, 1929.
Cans. American Can Company. 268,305; Mar. 11; Serial No. 279,256; published Dec. 31, 1929.
Cases. Robert Gaylord, Incorporated. 268,397; Mar. 11; Serial No. 292,264; published Dec. 31, 1929.
Containers, Shipping. Iowa Fiber Box Company. 268,245; Mar. 11; Serial No. 282,115; published Dec. 31, 1929.
Mangers and tanks. James Manufacturing Company. 268,410; Mar. 11; Serial No. 291,672; published Dec. 31, 1929.
Tanks and parts of same. Pneumatic. Leader Iron Works. 76,654; renewed Feb. 8, 1930.

CLASS 3

Case of leather, leatheroid, or fabric. Oliver Baker Manufacturing Company. 268,128; Mar. 11; Serial No. 291,471; published Dec. 24, 1929.
Leather covered goods and articles. D. Van Evera. 268,259; Mar. 11; Serial No. 290,532; published Dec. 24, 1929.

CLASS 4

Cleaner, Bowl. Lightnin Chemical Company. 268,237; Mar. 11; Serial No. 284,580; published Dec. 17, 1929.
Cleaner, oil soaps, metal polish, and nickel paste. Red Spot Paint & Varnish Co. 268,355; Mar. 11; Serial No. 267,388; published Oct. 28, 1928.
Cleaner, Wall-paper. C. W. Kensinger. 268,409; Mar. 11; Serial No. 291,774; published Dec. 17, 1929.
Cleaning preparation. C. H. Rambonnet. 268,354; Mar. 11; Serial No. 291,578; published Dec. 24, 1929.
Cleanser. H. B. Lambert. 268,374; Mar. 11; Serial No. 291,228; published Dec. 24, 1929.
Cream, Shaving. Florian, Inc. 268,362; Mar. 11; Serial No. 276,932; published Dec. 17, 1929.
Cream, Shaving. William A. Webster Company. 268,401; Mar. 11; Serial No. 292,144; published Dec. 17, 1929.
Cream, Shaving. William A. Webster Company. 268,402–3; Mar. 11; Serial Nos. 292,140–1; published Dec. 17, 1929.
Cream, Shaving. William A. Webster Company. 268,404; Mar. 11; Serial No. 292,138; published Dec. 17, 1929.
Cream, Shaving. William A. Webster Company. 268,405; Mar. 11; Serial No. 292,136; published Dec. 17, 1929.
Dressing, Belt. Continental Machinery and Supply Company. 268,406; Mar. 11; Serial No. 292,029; published Dec. 24, 1929.
Emery cutting cloth. F. I. Jaden. 268,377; Mar. 11; Serial No. 289,972; published Dec. 17, 1929.
Paper and cloth and waterproof abrasive paper and cloth, Abrasive. Carborundum Company. 268,398; Mar. 11; Serial No. 292,200; published Dec. 17, 1929.
Polish. Solshine Manufacturing Company. 268,407; Mar. 11; Serial No. 291,802; published Dec. 24, 1929.
Polish, Brass and copper. Hold-Gloss Inc. 268,150; Mar. 11; Serial No. 287,819; published Dec. 24, 1929.
Polishes, dressings, and cleaning compositions, Shoe. I. Sternberg. 268,370; Mar. 11; Serial No. 291,298; published Dec. 24, 1929.
Preparation, Antislipping. J. E. Salm. 268,371; Mar. 11; Serial No. 291,293; published Dec. 17, 1929.
Preparation for shaving purposes, Liquid. Tonsor Company. 268,413; Mar. 11; Serial No. 291,641; published Dec. 17, 1929.
Scouring powder. Minnesota Chemical Co. 268,353; Mar. 11; Serial No. 291,569; published Dec. 17, 1929.
Soap. Frances Fox Laboratories Incorporated. 268,417; Mar. 11; Serial No. 270,697; published Dec. 24, 1929.
Soap. Morton Manufacturing Corporation. 268,372; Mar. 11; Serial No. 291,285; published Dec. 24, 1929.
Soap. R. R. Rosenbaum. 268,308; Mar. 11; Serial No. 278,191; published Feb. 26, 1929.
Soap chips. Minnesota Chemical Co. 268,385; Mar. 11; Serial No. 291,567; published Dec. 17, 1929.
Soap for tanners' use, Neat's-foot oil. F. S. Walton Company. 76,415; renewed Jan. 11, 1930.
Soap powder. Minnesota Chemical Co. 268,352; Mar. 11; Serial No. 291,571; published Dec. 17, 1929.
Soap, Shaving. Giessner Company. 268,244; Mar. 11; Serial No. 282,238; published Dec. 17, 1929.
Soaps and shaving cream. Ferd Mülhens Inc. 268,378; Mar. 11; Serial No. 289,797; published Dec. 17, 1929.
Soaps and shaving soap. Colgate & Company. 78,228; renewed May 31, 1930.
Soaps, Benzine. United Products Company. 268,382–4; Mar. 11; Serial Nos. 288,930–41; published Dec. 24, 1929.
Soaps, Laundry. La France Manufacturing Company. 77,042; renewed Mar. 1, 1930.
Soaps, scouring compounds, etc. Laurel Soap Manufacturing Co. 268,373; Mar. 11; Serial No. 291,278; published Dec. 17, 1929.

CLASS 5

Adhesives. Goodyear Tire & Rubber Company. 268,254; Mar. 11; Serial No. 291,217; published Dec. 24, 1929.
Mucilage, Vegetable. Tragasol Products Limited. 268,357; Mar. 11; Serial No. 261,848; published Dec. 24, 1929.
Mucilage, Vegetable. Tragasol Products Limited. 268,358; Mar. 11; Serial No. 261,846; published Dec. 24, 1929.

CLASS 6

Ammonia and liquid bluing, Domestic. Piggly Wiggly Corporation. 268,117; Mar. 11. Serial No. 292,007; published Dec. 24, 1929.
Capsules for treating headaches. W. L. Swartz. 268,109; Mar. 11; Serial No. 291,745; published Dec. 24, 1929.
Carbon remover, Liquid. R. John. 268,360; Mar. 11; Serial No. 256,780; published Dec. 24, 1929.
Cleaning compound, bleach disinfectant, deodorant, and antiseptic. Hilex Company. 268,112; Mar. 11; Serial No. 291,827; published Dec. 24, 1929.
Compound, Squill. Bonide Chemical Co. Inc. 268,107; Mar. 11; Serial No. 291,497; published Dec. 24, 1929.
Dyestuffs. Wayland-Lloyd Co. Inc. 268,114; Mar. 11; Serial No. 291,852; published Dec. 24, 1929.
Hair and toilet preparations. Marcellene Chemical Company. 268,202; Mar. 11; Serial No. 289,791; published Dec. 24, 1929.
Inhalant liquids. T. J. Pomerance. 268,111; Mar. 11; Serial No. 291,788; published Dec. 24, 1929.
Lotion, Foot and skin. K-Lindy Products Co. 268,433; Mar. 11.
Magnesia. Philadelphia Magnesia Company. 268,190; Mar. 11; Serial No. 291,406; published Dec. 24, 1929.
Medical preparation. B. T. Kircher. 268,191; Mar. 11; Serial No. 291,275; published Dec. 24, 1929.
Medicinal preparation. A. S. Rivero. 268,189; Mar. 11; Serial No. 291,412; published Dec. 24, 1929.
Medicinal preparation. Tilden Company. 268,204; Mar. 11; Serial No. 289,654; published Dec. 24, 1929.
Medicinal tonic. Allan & Co. 268,110; Mar. 11; Serial No. 291,753; published Dec. 24, 1929.
Medicine. William H. Rorer, Inc. 268,113; Mar. 11; Serial No. 291,791; published Dec. 24, 1929.
Medicine, Cough. Cornel Drug Stores Inc. 268,119; Mar. 11; Serial No. 292,030; published Dec. 24, 1929.
Medicines. Foster-McClellan Company. 78,080; renewed May 31, 1930.
Perfume extracts, toilet waters, and perfumery. Parfumerie Roger et Gallet, Société Anonyme. 268,367; Mar. 11; Serial No. 275,292; published Dec. 24, 1929.
Powder, damiana, liver pills, etc., Foot. John Helland Co. 268,416; Mar. 11; Serial No. 270,840; published Dec. 24, 1929.
Protein to be used for experimental, technical, and clinical purposes. Fairchild Bros. & Foster. 268,120; Mar. 11; Serial No. 292,098; published Dec. 24, 1929.
Remedy for certain diseases. L. Duffy. 76,392; renewed Jan. 11, 1930.
Salve. J. Wacyra. 268,445; Mar. 11.
Salve, compounds, and preparations. Father Lee Medicines. 268,431; Mar. 11.
Sodium, sulphide. Barium Reduction Corporation. 268,426; Mar. 11; Serial No. 273,619; published Dec. 24, 1929.
Toilet preparations and fumigating wafers. Colgate & Co. 77,203; renewed Mar. 22, 1930.
Tonic. Henry K. Wampole and Company. 268,102; Mar. 11; Serial No. 292,133; published Dec. 24, 1929.
Tonic, Hair. E. A. Allaway. 268,230; Mar. 11; Serial No. 283,852; published Dec. 24, 1929.
Tonic, Medicinal. Bon Vino Products, Inc. 268,425; Mar. 11; Serial No. 291,434; published Dec. 24, 1929.
Tonic, shampoo, hair oil, and pomade, Hair. M. M. Hogan. 268,197; Mar. 11; Serial No. 290,573; published Dec. 24, 1929.
Vaginal douche. W. E. Grant. 268,121; Mar. 11; Serial No. 292,105; published Dec. 24, 1929.

CLASS 7

Rope and cordage. Ynchausti & Co. 268,322; Mar. 11; Serial No. 29,110; published Dec. 17, 1929.
Rope and cordage. Ynchausti & Co. 268,347; Mar. 11; Serial No. 291,102; published Dec. 17, 1929.

CLASS 8

Cigarette and cigar cases. Wales Novelties Corporation. 268,268; Mar. 11; Serial No. 291,039; published Dec. 24, 1929.

CLASS 9

Firearms, Compensator for. R. M. Cutts, jr. 268,328; Mar. 11; Serial No. 292,315; published Dec. 24, 1929.
Matches. Vulcan Match Co. 268,331; Mar. 11; Serial No. 291,851; published Dec. 24, 1929.
Matches. Vulcan Match Co. 268,386; Mar 11; Serial No. 291,850; published Dec. 24, 1929.
Powder, Safety. Burton Powder Company. 76,611; renewed Feb. 1, 1930.

CLASS 10

Composition of matter used as a soil conditioner. Falling Spring Lime Company. 268,248; Mar. 11; Serial No. 290,779; published Dec. 24, 1929.
Fertilizers. Commercial Fertilizer Co. 78,690; renewed July 5, 1930.

CLASS 12

Brick. Acme Brick Company. 268,435; Mar. 11.
Lime and cement. Ash Grove Lime & Portland Cement Co. 78,926; renewed July 26, 1930.
Paving material, Road-. Federal Asphalt Paving Company. 268,428; Mar. 11.

CLASS 13

Bolts. Oliver Iron & Steel Corporation. 268,400; Mar. 11; Serial No. 292,174; published Dec. 31, 1929.
Dishes, toothbrush holders, wall brackets, etc., Soap. Marlboro Wire Goods Company. 268,380; Mar. 11; Serial No. 289,471; published Dec. 31, 1929.
Drains, metal gates and pens, etc., Metal. James Manufacturing Company. 268,412; Mar. 11; Serial No. 291,669; published Dec. 31, 1929.
Hardware. Russell & Erwin Manufacturing Company. 78,910; renewed July 19, 1930.
Hollow ware. Ernest Stevens, Limited. 77,525; renewed Apr. 19, 1930.
Metal brackets. W. H. Greenlaw. 268,438; Mar. 11.
Metallic belt fasteners. D. T. Graham. 77,308; renewed Mar. 29, 1930.
Percolators, sugar bowls, pitchers, etc. Buffalo Lamp & Mfg. Co. Inc. 268,381; Mar. 11; Serial No. 289,063; published Dec. 31, 1929.
Pottery ware. Kohler Company. 268,439; Mar. 11.
Racks. James H. Boye Manufacturing Co. 268,149; Mar. 11; Serial No. 287,398; published Dec. 31, 1929.
Snap fasteners, Separable. Cinch Manufacturing Corporation. 268,415; Mar. 11; Serial No. 271,878; published Dec. 31, 1929.
Table hollow ware. Friedman Silver Co. 268,376; Mar. 11; Serial No. 290,460; published Dec. 31, 1929.
Triplicate sets, waffle molds, frying pans, etc. Nu-Art Cook-Ware Corporation. 268,369; Mar. 11; Serial No. 291,354; published Dec. 31, 1929.
Urns, accessories for urns, steam tables, etc. Firebrand Kitchen Equipment Company. 268,296; Mar. 11; Serial No. 281,278; published Dec. 31, 1929.

CLASS 14

Castings and forgings. William Langbein Bros. 268,291; Mar. 11; Serial No. 277,302; published Dec. 24, 1929.
Castings, forgings, ingots, etc. Midvale Company. 268,208; Mar. 11; Serial No. 288,861; published Dec. 24, 1929.
Metal, Babbitt. J. A. Hall. 268,280; Mar. 11; Serial No. 291,333; published Dec. 24, 1929.
Steel and forgings. Cambria Steel Company. 78,683–6; renewed July 5, 1930.
Steel, Sheet. Benjamin Wolff & Company. 268,288; Mar. 11; Serial No. 290,334; published Dec. 24, 1929.
Zinc alloy. Illinois Zinc Company. 268,273; Mar. 11; Serial No. 291,769; published Dec. 24, 1929.

CLASS 15

Candles. Syracuse Candle Co. 78,661; renewed June 28, 1930.
Oils, Watch, clock, and chronometer. Hammel, Riglander & Co. 78,091; renewed May 31, 1930.

CLASS 16

Aluminum powder. Ultra Chemical Company. 268,278; Mar. 11; Serial No. 291,486; published Dec. 24, 1929.
Lacquer and varnish. Twin City Shellac Co. Inc. 268,286; Mar. 11; Serial No. 290,863; published Dec. 24, 1929.
Paint for clothes closets, chests, drawers, and storage rooms for clothes and furs. G. E. Underhill. 268,274; Mar. 11; Serial No. 291,704; published Dec. 4, 1929.
Paints. Durable Paint Company. 268,289; Mar. 11; Serial No. 289,968; published Dec. 24, 1929.
Paints and varnishes, Ready-mixed. Crown Paint & Varnish Works, Inc. 268,228; Mar. 11; Serial No. 284,219; published Aug. 6, 1929.
Paints, enamels, etc. Baer Bros. 76,828; renewed Feb. 15, 1930.
Paints, paint enamels, lacquers, etc. Capitol Paint & Varnish Works. 268,281; Mar. 11; Serial No. 291,321; published Dec. 24, 1929.
Paints, varnishes, fillers, etc. E. E. Nice. 76,768; renewed Feb. 15, 1930.
Polish. D. Perrucci. 268,285; Mar. 11; Serial No. 291,022; published Dec. 24, 1929.
Polish. Solar Products Company. 268,214; Mar. 11; Serial No. 285,535; published Dec. 24, 1929.
Polishing compound. Arco Company. 268,284; Mar. 11; Serial No. 291,108; published Dec. 24, 1929.
Varnishes. Amalgamated Paint Company. 268,227; Mar. 11; Serial No. 289,779; published Dec. 17, 1929.

CLASS 17

Cigars. Frank P. Lewis Cigar Co. 268,266–7; Mar. 11; Serial Nos. 291,623–4; published Dec. 24, 1929.
Cigars. Rossi Cigar Co. 268,250; Mar. 11; Serial No. 286,594; published Dec. 24, 1929.
Tobacco, Plug chewing. S. F. Haserot. 34,501; renewed May 1, 1930.

CLASS 19

Airplanes. Star Aircraft Company. 268,396; Mar. 11; Serial No. 292,556; published Dec. 31, 1929.
Airplanes and parts of airplanes. Hamilton Metalplane Co. 268,303; Mar. 11; Serial No. 279,470; published Dec. 31, 1929.
Automobiles. New Era Motors, Incorporated. 268,375; Mar. 11; Serial No. 290,518; published Dec. 31, 1929.
Monoplanes. Mono-Aircraft Corporation. 268,408; Mar. 11; Serial No. 291,779; published Dec. 31, 1929.

Taxicabs. Yellow Taxi Corp. New York. 268,419; Mar. 11; Serial No. 269,170; published Dec. 31, 1929.

CLASS 21

Electric mining machines. Hirst-Butler Electrical Machine Co. 76,514; renewed Jan. 25, 1930.

CLASS 22

Bowling alleys and parts thereof. Brunswick-Balke-Collender Company. 268,277; Mar. 11; Serial No. 291,549; published Dec. 24, 1929.
Game. Parker Brothers Inc. 268,271; Mar. 11; Serial No. 292,414; published Dec. 31, 1929.
Games, Board. Stox, Inc. 268,231; Mar. 11; Serial No. 283,473; published Dec. 31, 1929.
Playballs. Rawlings Manufacturing Company. 268,270; Mar. 11; Serial No. 292,553; published Dec. 31, 1929.
Skates, Ice. Nestor Johnson Manufacturing Company. 268,441; Mar. 11.
Sporting goods. Società Invenzioni Brevetti Anonima-Torino. 268,212; Mar. 11; Serial No, 285,836; published Dec. 31, 1929.
Sporting goods. Società Invenzioni Brevetti Anonima-Torino. 268,213; Mar. 11; Serial No. 285,835; published Dec. 31, 1929.
Tarred cod and halibut lines, and white cotton fishlines. Yawgo Line & Twine Company. 268,282; Mar. 11; Serial No. 291,251; published Dec. 24, 1929.
Toy building blocks. Main Toy Company. 268,283; Mar. 11; Serial No. 291,194; published Dec. 31, 1929.

CLASS 23

Accelerator pedals. Queensboro Tool & Die Co. 268,256; Mar. 11; Serial No. 291,024; published Dec. 24, 1929.
Blades, Razor. Apex Manufacturing Corporation. 268,136; Mar. 11; Serial No. 292,244; published Dec. 24, 1929.
Blades, Razor. C. Klaas. 268,252; Mar. 11; Serial No. 291,339; published Dec. 24, 1929.
Blades, Razor. F. Nagel. 268,251; Mar. 11; Serial No. 291,400; published Dec. 24, 1929.
Blades, Safety-razor. Frank J. Quigan, Inc. 268,138; Mar. 11; Serial No. 292,287; published Dec. 24, 1929.
Car movers and pushers. W. McLeish. 77,477; renewed Apr. 12, 1930.
Carriers, barn-floor scrapers, poultry equipment, etc., Feed, litter, milk-can, and swill. James Manufacturing Company. 268,131; Mar. 11; Serial No. 291,668; published Dec. 24, 1929.
Cement-making machinery and parts thereof. F. L. Smidth & Co. 268,224; Mar. 11; Serial No. 285,181; published Dec. 24, 1929.
Cutlery. Roth-Büchner Aktiengesellschaft. 268,310; Mar. 11; Serial No. 277,919; published Dec. 24, 1929.
Cutlery and machine tools. Roberts, Sanford & Taylor Company. 79,007; renewed July 26, 1930.
Device for separating oil and water from compressed air, device for cooling compressed air; etc. Gast Manufacturing Corporation. 268,434; Mar. 11.
Engine stops and pump governors. Strong, Carlisle & Hammond Co. 78,215; renewed May 31, 1930.
Fire extinguishers, saws, twist drills, etc., Portable hand. Industrial Supply Company. 268,302; Mar. 11; Serial No. 279,473; published Dec. 24, 1929.
Harvesters and thrashers, Combined. Curtis Harvesters, Inc. 268,430; Mar. 11.
Lathes, Turning. Maschinenfabrik Augsburg-Nürnburg. 268,389; Mar. 11; Serial No. 274,661; published Dec. 24, 1929.
Machines and parts. Gleason Works. 268,260; Mar. 11; Serial No. 290,510; published Dec. 24, 1929.
Mechanical water softeners. Fort Wayne Engineering & Manufacturing Co. 268,129; Mar. 11; Serial No. 291,614; published Dec. 24, 1929.
Planes, grooving irons, gouges, etc. E. A. Bergs Fabriks Aktiebolag. 268,219; Mar. 11; Serial No. 287,904; published Dec. 24, 1929.
Press metal machinery, punch presses, and parts. La Salle Machine Works, Inc. 268,292; Mar. 11; Serial No. 277,067; published Dec. 24, 1929.
Roasting machine, Weiner-. Berg Bros. Manufacturing Company Incorporated. 268,134; Mar. 11; Serial No. 292,199; published Dec. 24, 1929.
Rug hookers. J. E. Garrett. 268,137; Mar. 11; Serial No. 292,263; published Dec. 24, 1929.
Saws. Henry Disston & Sons, Incorporated. 78,955; renewed July 26, 1930.
Shovels. Bright & Company. 268,258; Mar. 11; Serial No. 290,684; published Dec. 24, 1929.
Tool handles. Turner, Day & Woolworth Handle Company. 79,018; renewed July 26, 1930.
Tools. National Water Main Cleaning Co. 77,945; renewed May 17, 1930.
Tools, Automotive. Duro Metal Products Company. 268,130; Mar. 11; Serial No. 291,657; published Dec. 24, 1929.
Washing machines. Altorfer Bros. Company. 268,399; Mar. 11; Serial No. 292,193; published Dec. 31, 1929.
Wrenches, Adjustable screw. Gebr. Dowidat. 268,218; Mar. 11; Serial No. 288,278; published Dec. 24, 1929.

CLASS 24

Washing machines. C. H. Canfield. 268,395; Mar. 11; Serial No. 292,576; published Dec. 31, 1929.

CLASS 26

Blue-print machines, blue-printing machines, etc., Cylindrical. Charles Bruning Company. 268,223; Mar. 11; Serial No. 285,246; published Dec. 24, 1929.
Films, Motion-picture. National Screen Service Corp. 268,437; Mar. 11.
Levels, rulers, air meters, etc., Abney hand. Charles Bruning Company. 268,290; Mar. 11; Serial No. 277,400; published Dec. 24, 1929.
Ophthalmic mountings and parts therefor, eye protectors, etc. American Optical Company. 268,217; Mar. 11; Serial No. 289,171; published Dec. 24, 1929.
Ophthalmic mountings, eye protectors, lenses, etc. American Optical Company. 268,220; Mar. 11; Serial No. 287,786; published Dec. 24, 1929.
Photographic sensitized plates, films and papers. Wellington & Ward Limited. 268,447; Mar. 11.
Supplies and apparatus for laboratories. Teschner-Myers Co. 268,222; Mar. 11; Serial No. 286,141; published Dec. 24, 1929.

CLASS 27

Watches. Elgin National Watch Company. 268,269; Mar. 11; Serial No. 290,940; published Dec. 24, 1929.

CLASS 29

Brooms. Piggly Wiggly Corporation. 268,226; Mar. 11; Serial No. 292,008; published Dec. 24, 1929.
Brooms. Piggly Wiggly Corporation. 268,264–5; Mar. 11; Serial Nos. 292,005–6; published Dec. 24, 1929.
Brushes. Kroger Grocery & Baking Co. 268,249; Mar. 11; Serial No. 288,135; published Dec. 24, 1929.
Mops, Dust. Ostdiek Co., The. 268,239; Mar. 11; Serial No. 282,790; published Dec. 24, 1929.
Mops, Floor. Squeez-Ezy Mop Co. 268,225; Mar. 11; Serial No. 292,015; published Dec. 24, 1929.

CLASS 30

Earthenware articles. Roseville Pottery Company. 268,446; Mar. 11.

CLASS 32

Bed springs, mattresses, beds, etc. L. Bamberger & Co. 268,261; Mar. 11; Serial No. 290,290; published Dec. 24, 1929.
Beds. Englander Spring Bed Company. 268,140; Mar. 11; Serial No. 292,400; published Dec. 24, 1929.
Beds, bed panels, dressers, etc. Barker Bros. Incorporated. 268,125; Mar. 11; Serial No. 291,432; published Dec. 24, 1929.
Cabinets and counters. Metal Cabinet & Equipment Company. 268,442; Mar. 11.
Chairs and rockers. Lehman Company. 268,444; Mar. 11.
Furniture, Household and office. Barker Bros. Incorporated. 268,257; Mar. 11; Serial No. 290,808; published Dec. 24, 1929.
Mattresses. Sealy Mattress Company. 76,217; renewed Dec. 28, 1929.

CLASS 33

Watch crystals and transparent composition disks and plates, Composition. Permanent Bevel Unbreakable Crystal Company. 268,388 Mar. 11; Serial No. 274,981; published Dec. 24, 1929.

CLASS 34

Burners, Automatic coal. Iron Fireman Manufacturing Company. 268,300; Mar. 11; Serial No. 279,052; published Dec. 31, 1929.
Burners, Gas-fuel. Wetherbee-Gunn Co. 268,236; Mar. 11; Serial No. 283,022; published Dec. 24, 1929.
Burners, Liquid fuel. Silent Automatic Corporation. 268,440; Mar. 11.
Lighters, etc., Friction cigarette, friction table. Wm. Filene's Sons Company. 268,379; Mar. 11; Serial No. 289,736; published Dec. 31, 1929.
Lighters, Pyrophoric and friction. Société à Responsabilité Limitée Dite "Guy de Vadimon." 268,243; Mar. 11; Serial No. 282,260; published Dec. 31, 1929.
Pots for holding baths for heat treating, plating, and the like to be heated. Flannery Manufacturing Company. 268,235; Mar. 11; Serial No. 283,035; published Dec. 31, 1929.
Stoves, ranges, and furnaces. Rathbone, Sard & Co. 78,905–6; renewed July 19, 1930.
Ventilators, flues, louvers, etc., Metal gravity roof. James Manufacturing Company. 268,411; Mar. 11; Serial No. 291,670; published Dec. 31, 1929.

CLASS 35

Gaskets. Victor Manufacturing & Gasket Co. 268,263; Mar. 11; Serial No. 290,042; published Dec. 24, 1929.
Hose, Fire. Hewitt-Gutta Percha Rubber Corporation. 268,429; Mar. 11.
Patches, repair kits and belts, Tire and tube. Badger Rubber Works. 268,122; Mar. 11; Serial No. 291,426; published Dec. 24, 1929.
Tire flaps, flap material, transmission discs, etc. Badger Rubber Works. 268,123; Mar. 11; Serial No. 291,427; published Dec. 24, 1929.
Tires and inner tubes. Badger Rubber Works. 268,124; Mar. 11; Serial No. 291,428; published Dec. 24, 1929.
Tires for vehicles, Rubber. United States Rubber Company. 268,306; Mar. 11; Serial No. 278,859; published Apr. 2, 1929.
Tires, inner tubes, and transmission discs, Vehicle. Badger Rubber Works. 268,126; Mar. 11; Serial No. 291,429; published Dec. 24, 1929.
Tires, Rubber vehicle. Shawmut Tire Co. 76,081; renewed Dec. 14, 1929.
Washers. N. E. Booth. 78,157; renewed May 31, 1930.
Washers. J. A. Sexauer Mfg. Co. 268,242; Mar. 11; Serial No. 282,375; published Dec. 24, 1929.

CLASS 36

Pianos. Schiller Piano Company. 77,961; renewed May 17, 1930.

CLASS 37

Binders, paper, index cards, etc., Looseleaf. Motland & Impey Limited. 268,309; Mar. 11; Serial No. 278,054; published Dec. 24, 1929.
Letterheads. Tile & Mantel Contractors' Association of America. 268,343; Mar. 11; Serial No. 289,134; published Dec. 17, 1929.
Letterheads, correspondence cards, and stationary. Stern Brothers. 268,345; Mar. 11; Serial No. 288,670; published Dec. 24, 1929.
Pad, Contract-bridge score. C. E. Warner. 268,344; Mar. 11; Serial No. 289,093; published Dec. 17, 1929.
Paper and paperboard lining, wrapping and envelope. Northwest Paper Company. 268,238; Mar. 11; Serial No. 282,823; published Dec. 17, 1929.
Paper, Book. J. W. Butler Paper Company. 77,469; renewed Apr. 12, 1930.
Paper, Gummed. Ideal Coated Paper Co. 77,543; renewed Apr. 19, 1930.
Paper napkins, doilies, tablecloths, and towels. Fort Howard Paper Company. 268,312; Mar. 11; Serial No. 277,537; published Dec. 17, 1929.
Paper, Waxed. Waxed Products Co. 268,349; Mar. 11; Serial No. 291,040; published Dec. 24, 1929.
Papers. Empire Paper Company. 268,350–1; Mar. 11; Serial Nos. 291,000–1; published Dec. 17, 1929.
Pencils. Joseph Dixon Crucible Company. 268,443; Mar. 11.
Pencils, Mechanical. Dur-O-Lite Pencil Company. 268,393; Mar. 11; Serial No. 287,098; published Dec. 17, 1929.
Pencils, pads, tablets, etc. George W. Simmons Corporation. 268,241; Mar. 11; Serial No. 282,495; published Dec. 24, 1929.
Pencils, pens, penholders, etc. Z. Kobayashi. 268,359; Mar. 11; Serial No. 259,306; published Dec. 17, 1929.
Pencils, tablets, wax paper, etc. George W. Simmons Corporation. 268,240; Mar. 11; Serial No. 282,497; published Dec. 24, 1929.
Tissue, Toilet. J. S. Hartman. 268,333; Mar. 11; Serial No. 290,833; published Dec. 24, 1929.

CLASS 38

Book and directory for lawyers, Reference. Matthew Bender & Company. 268,391; Mar. 11; Serial No. 288,216; published Dec. 17, 1929.
Books. Jewish Biographical Bureau, Inc. 268,318; Mar. 11; Serial No. 291,458; published Dec. 17, 1929.
Books, Series of law. Bancroft-Whitney Company. 268,118; Mar. 11; Serial No. 292,024; published Dec. 24, 1929.
Cards. Buzza Company Inc. 268,320; Mar. 11; Serial No. 291,319; published Dec. 17, 1929.
Catalogs. May & Malone. 268,348; Mar. 11; Serial No. 291,063; published Dec. 17, 1929.
Coupons, Trading. American Beauty Coupon Company. 268,314; Mar. 11; Serial No. 291,653; published Dec. 24, 1929.
Drawings, Strips of humorous. Bell Syndicate, Inc. 268,332; Mar. 11; Serial No. 290,933; published Dec. 17, 1929.
Leaflets, pamphlets, and booklets. Ned Wayburn Studios of Stage Dancing Inc. 268,341; Mar. 11; Serial No. 289,428; published Dec. 24, 1929.
Magazine. Federation of Sewage Works Associations. 268,334; Mar. 11; Serial No. 290,826; published Dec. 17, 1929.
Magazine. Mid-West Publishers, Inc. 268,329; Mar. 11; Serial No. 292,221; published Dec. 24, 1929.
Magazine. Playground and Recreation Association of America, Incorporated. 268,394; Mar. 11; Serial No. 286,680; published Dec. 24, 1929.
Magazine. Sprague Publishing Co. 268,317; Mar. 11; Serial No. 291,533; published Dec. 17, 1929.
Magasines. J. Bauer. 268,207; Mar. 11; Serial No. 288,580; published Dec. 24, 1929.
Magazines. Fawcett Publications, Inc. 268,108; Mar. 11; Serial No. 291,660; published Dec. 24, 1929.
Periodical. Funk & Wagnalls Company. 268,103; Mar. 11; Serial No. 292,162; published Dec. 24, 1929.
Periodicals. Bankers Publishing Company. 268,115; Mar. 11; Serial No. 291,864; published Dec. 24, 1929.
Photographic enlargements. W. Greene. 268,105; Mar. 11; Serial No. 292,354; published Dec. 24, 1929.
Photographic prints and enlargements. Edward Madsen & Sons. 268,311; Mar. 11; Serial No. 277,839; published Dec. 17, 1929.
Photographs. Foto-Fax, Inc. 268,316; Mar. 11; Serial No. 291,559; published Dec. 17, 1929.
Publication. American Laundry Machinery Company. 268,106; Mar. 11; Serial No. 292,385; published Dec. 24, 1929.
Publication. Co-Operative Manager and Farmer. 268,313; Mar. 11; Serial No. 291,707; published Dec. 17, 1929.
Publication. Gernsback Publications, Inc. 268,116; Mar. 11; Serial No. 291,973; published Dec. 24, 1929.
Publication. Good Story Magazine Company. 268,338; Mar. 11; Serial No. 290,124; published Dec. 24, 1929.
Publication. Independent Oil Men of America. 268,319; Mar. 11; Serial No. 291,390; published Dec. 17, 1929.
Publication. McKesson & Robbins, Incorporated. 268,337; Mar. 11; Serial No. 290,318; published Dec. 17, 1929.
Publication. Meredith Publishing Company. 268,104; Mar. 11; Serial No. 292,274; published Dec. 24, 1929.
Publication. Ned Wayburn Studios of Stage Dancing Inc. 268,340; Mar. 11; Serial No. 289,429; published Dec. 24, 1929.
Publication. Wisconsin Farmer Company. 268,346; Mar. 11; Serial No. 288,530; published Dec. 24, 1929.
Publications. Childs, Jeffries & Co. 268,321; Mar. 11; Serial No. 291,114; published Dec. 17, 1929.
Publications. Childs, Jeffries & Co. Incorporated. 268,335; Mar. 11; Serial No. 290,819; published Dec. 17, 1929.
Publications. K. G. Reynolds. 268,366; Mar. 11; Serial No. 275,630; published Dec. 24, 1929.
Volumes containing lectures and articles and other similar matter, Series of. A. J. Lowry. 268,298; Mar. 11; Serial No. 280,029; published Dec. 17, 1929.

CLASS 39

Apparel, Professional and service. Lamb Mfg. Company. 268,200; Mar. 11; Serial No. 290,183; published Dec. 24, 1929.
Apparel, Wearing. La Mode Garment Co. 268,161; Mar. 11; Serial No. 290,517; published Dec. 17, 1929.
Apparel, Women's wearing. S. Gordon. 268,295; Mar. 11; Serial No. 281,730; published Dec. 24, 1929.
Boots and shoes. Lotus Limited. 268,203; Mar. 11; Serial No. 289,684; published Dec. 24, 1929.
Boots, Leather sporting. Theo. Bergmann Shoe Mfg. Co. 268,201; Mar. 11; Serial No. 289,813; published Dec. 24, 1929.
Caps and hats, gloves, trousers, etc. Knox Hat Company. 268,299; Mar. 11; Serial No. 279,670; published Dec. 24, 1929.
Clothing. John E. Hurst & Company. 76,670; renewed Feb. 8, 1930.
Clothing. McClure & McIntosh, Limited. 268,174; Mar. 11; Serial No. 289,034; published Dec. 17, 1929.
Clothing, Men's. A. I. Namm & Son. 268,195; Mar. 11; Serial No. 290,965; published Dec. 24, 1929.
Coats. B. Greenholtz. 268,168; Mar. 11; Serial No. 291,003; published Dec. 17, 1929.
Coats. Windram Manufacturing Co. 268,364; Mar. 11; Serial No. 276,356; published Dec. 17, 1929.
Coats, suits, dresses, etc., Ladies' and misses'. Lesher, Whitman & Co. 268,165; Mar. 11; Serial No. 290,755; published Dec. 17, 1929.
Dresses, aprons, coats, and underwear. Fried Garment Mfg. Co. 268,166; Mar. 11; Serial No. 290,946; published Dec. 24, 1929.
Dresses, Children's. Stein Moss & Company. 268,423–4; Mar. 11; Serial Nos. 285,048–9; published Dec. 24, 1929.
Goods and notions, Fancy. John E. Hurst & Company. 76,568; renewed Feb. 1, 1930.
Hats. Bronston Bros. & Co. 268,420; Mar. 11; Serial No. 288,003; published Dec. 24, 1929.
Hosiery. Brown Durrell Co. 268,178; Mar. 11; Serial No. 286,858; published Dec. 24, 1929.
Hosiery. Brown Durrell Co. 268,179; Mar. 11; Serial No. 286,864; published Dec. 24, 1929.
Hosiery. De Valle, Inc. 268,152–3; Mar. 11; Serial Nos. 291,208–9; published Dec. 24, 1929.

Hosiery. Emily Shops, Inc. 268,182; Mar. 11; Serial No. 291,501; published Dec. 17, 1929.
Hosiery. Galax Knitting Company. 268,164; Mar. 11; Serial No. 290,751; published Dec. 17, 1929.
Hosiery. Kramer Brothers. 268,361; Mar. 11; Serial No. 252,284; published Dec. 24, 1929.
Hosiery. Melville Shoe Corporation. 268,176; Mar. 11; Serial No. 289,936; published Dec. 17, 1929.
Hosiery. Walter Fred Hosiery Mills Inc. 268,154; Mar. 11; Serial No. 291,212; published Dec. 17, 1929.
Hosiery, underwear, and lingerie. Thalhimer Bros., Inc. 268,192; Mar. 11; Serial No. 291,181; published Dec. 24, 1929.
Hosiery, underwear, neckwear, four-in-hand and bow ties. Lockwoven Hosiery Company. 268,297; Mar. 11; Serial No. 280,848; published Dec. 24, 1929.
Neckties. Weisbaum Bros. Brower Company. 268,151; Mar. 11; Serial No. 291,104; published Dec. 17, 1929.
Overcoats. P. Feinstein & Sons. 268,390; Mar. 11; Serial No. 274,040; published Dec. 24, 1929.
Pajamas. Robert Reis & Co. 268,184; Mar. 11; Serial No. 291,638; published Dec. 17, 1929.
Robes, Burial. Mrs. A. F. Mattison. 268,301; Mar. 11; Serial No. 279,553; published Dec. 24, 1929.
Shirts. Levin & Harris Shirt Co. 268,158; Mar. 11; Serial No. 291,396; published Dec. 24, 1929.
Shirts. D. H. Schiffer. 268,171; Mar. 11; Serial No. 289,208; published Dec. 24, 1929.
Shirts and collars. Leon E. Jacobs & Bro. 268,160; Mar. 11; Serial No. 290,254; published Dec. 24, 1929.
Shirts and ties, Men's dress. Rosecliff Shirt Corporation. 268,162; Mar. 11; Serial No. 290,603; published Dec. 17, 1929.
Shoes. J. K. Orr Shoe Company. 268,206; Mar. 11; Serial No. 289,363; published Dec. 24, 1929.
Shoes. D. Silverman. 268,421; Mar. 11; Serial No. 286,661; published Dec. 24, 1929.
Shoes. Wilbar's, Inc. 268,198; Mar. 11; Serial No. 290,484; published Dec. 24, 1929.
Shoes. Wolverine Shoe and Tanning Corporation. 268,422; Mar. 11; Serial No. 285,955; published Dec. 24, 1929.
Shoes, Women's. O'Connor & Goldberg. 268,196; Mar. 11; Serial No. 290,761; published Dec. 24, 1929.
Soles and heels for boots and shoes. Essex Rubber Company Inc. 268,193; Mar. 11; Serial No. 291,085; published Dec. 24, 1929.
Soles and heels, Rubber. Hood Rubber Company. 268,205; Mar. 11; Serial No. 289,627; published Dec. 24, 1929.
Suits and overcoats, Men's and young men's. B. F. Schlesinger & Sons. 268,163; Mar. 11; Serial No. 290,607; published Dec. 17, 1929.
Sweaters and bathing suits, Knitted. Zakonit, Inc. 268,188; Mar. 11; Serial No. 291,752; published Dec. 17, 1929.
Sweaters, dresses, suits, and coats, Sports. Jacob Guttman & Sons, Inc. 268,155; Mar. 11; Serial No. 291,220; published Dec. 24, 1929.
Sweaters, sweater coats, and knitted shirts. Neustadter Bros. 268,145; Mar. 11; Serial No. 291,098; published Dec. 24, 1929.
Trousers, stockings, sweaters, and shirts. E. S. Twining & Co. 268,246; Mar. 11; Serial No. 284,550; published Dec. 17, 1929.
Underwear. Hansley Mills. 268,146; Mar. 11; Serial No. 291,806; published Dec. 24, 1929.

CLASS 40

Flowers, braids, buttons, buckles, etc., Artificial and prepared. L. Bamberger & Co. 268,199; Mar. 11; Serial No. 290,295; published Dec. 3, 1929.
Pins and safety pins made of precious metal. Schapiro & Ryne, Inc. 268,194; Mar. 11; Serial No. 291,027; published Dec. 24, 1929.
Shields and metal clips for attachment to garments, Sanitary paper dress. H. Schwartzman. 268,307; Mar. 11; Serial No. 278,557; published Dec. 24, 1929.

CLASS 42

Blankets, Textile. Esmond Mills. 268,327; Mar. 11; Serial No. 292,316; published Dec. 24, 1929.
Blankets, Textile. F. C. Huyck & Sons. 268,324; Mar. 11; Serial No. 292,356; published Dec. 24, 1929.
Cotton fabrics. Davis & Catterall, Inc. 268,325; Mar. 11; Serial No. 292,352; published Dec. 24, 1929.
Cotton, linen, silk, etc., piece goods. Powdrell & Alexander, Inc. 268,323; Mar. 11; Serial No. 292,461; published Dec. 24, 1929.
Cotton, wool, silk, etc., piece goods. Frank I. Denison & Company. 268,392; Mar. 11; Serial No. 287,959; published Dec. 24, 1929.
Hair nets. C. K. Thau. 268,229; Mar. 11; Serial No. 283,897; published Dec. 24, 1929.
Handkerchiefs. D. Heller. 268,448; Mar. 11.
Handkerchiefs. Rochester Co. Inc. 268,330; Mar. 11; Serial No. 292,178; published Dec. 24, 1929.
Rugs and carpets, Textile. Bigelow-Hartford Carpet Company. 268,342; Mar. 11; Serial No. 289,387; published Dec. 24, 1929.
Towels. Boott Mills. 268,387; Mar. 11; Serial No. 275,097; published Dec. 24, 1929.
Woolen goods. Aaron I. Binsky, Inc. 268,336; Mar. 11; Serial No. 290,646; published Dec. 24, 1929.
Woolen goods. S. Stein & Co. 268,315; Mar. 11; Serial No. 291,592; published Dec. 24, 1929.

CLASS 43

Yarns, threads, and filaments, Viscose. Du Pont Rayon Company. 268,339; Mar. 11; Serial No. 290,058; published Dec. 24, 1929.
Yarns, Woolen. Bernhard Ulmann Co. Inc. 268,326; Mar. 11; Serial No. 292,344; published Dec. 24, 1929.

CLASS 44

Bandage, absorbent cotton, etc., Cotton. George W. Simmons Corporation. 268,233; Mar. 11; Serial No. 283,307; published Dec. 24, 1929.
Casting gold for dentists' use. Julius Aderer, Inc. 268,272; Mar. 11; Serial No. 292,023; published Dec. 24, 1929.
Cotton bandage, absorbent cotton, etc. George W. Simmons Corporation. 268,232; Mar. 11; Serial No. 283,471; published Dec. 24, 1929.
Hair-waving apparatus, Electrical. Borden Method, Inc. 268,436; Mar. 11.
Hair-waving pads. Arlette, Inc. 268,279; Mar. 11; Serial No. 291,877; published Dec. 24, 1929.
Perfume and medicinal atomizers. Marcel Franck, Inc. 268,276; Mar. 11; Serial No. 291,560; published Dec. 24, 1929.
Permanent-hair-waving apparatus. Ringlette Permanent Company. 268,275; Mar. 11; Serial No. 291,696; published Dec. 24, 1929.
Scissors, forceps, knives, probes, etc. Chiron-Werke G. m. b. H. 268,209; Mar. 11; Serial No. 286,924; published Dec. 24, 1929.
Vibrating and heating apparatus and electrical equipment associated therewith. Renwal Scientific Engineering Company. 268,287; Mar. 11; Serial No. 290,717; published Dec. 24, 1929.
Vibrating and heating equipment and electrical equipment associated therewith. Renwal Scientific Engineering Company. 268,210–11; Mar. 11; Serial Nos. 286,653–4; published Dec. 24, 1929.

CLASS 45

Beverages and for syrups, extracts, and concentrates used in making the same, Maltless. Howdy Company. 268,253; Mar. 11; Serial No. 291,337; published Dec. 24, 1929.
Beverages, Maltless. Cresta Blanca Company. 268,127; Mar. 11; Serial No. 291,439; published Dec. 24, 1929.
Ginger ale. Herman Krauss, Inc. 268,221; Mar. 11; Serial No. 287,707; published Dec. 24, 1929.
Juice, Grape and loganberry. Dickinson Company. 268,215; Mar. 11; Serial No. 289,787; published Dec. 24, 1929.

CLASS 46

Avocado or alligator pears. Caligator Pear Company. 268,167; Mar. 11; Serial No. 290,994; published Dec. 24, 1929.
Beef and calves' feet jelly. T. Loewy. 268,294; Mar. 11; Serial No. 281,740; published Dec. 24, 1929.
Biscuits. Naamlooze Vennootschap Utrechtsche Boterspritsfabriek Voorheen Firma W. J. Noteboom. 268,216; Mar. 11; Serial No. 289,530; published Dec. 24, 1929.
Bread. B. C. Barnes. 268,139; Mar. 11; Serial No. 292,349; published Dec. 24, 1929.
Bread. H. B. Tolley. 268,255; Mar. 11; Serial No. 291,184; published Dec. 24, 1929.
Bread, biscuits, etc. E. L. Zierer. 268,414; Mar. 11; Serial No. 87,043; published July 17, 1917.
Canned corned beef. International Products Corporation. 268,144; Mar. 11; Serial No. 291,057; published Dec. 31, 1929.
Canned fish. Etablissements F. Delory. 268,156; Mar. 11; Serial No. 291,329; published Dec. 24, 1929.
Canned fish. Halfhill Packing Corporation, Inc. 268,432; Mar. 11.
Canned fruits and vegetables. Makepeace Preserving Company. 268,304; Mar. 11; Serial No. 279,352; published Dec. 31, 1929.
Canned fruits and vegetables. Ray-Brown Company. 268,177; Mar. 11; Serial No. 286,590; published Dec. 24, 1929.
Canned salmon. Deming & Gould Co. 78,945–54; renewed July 26, 1930.
Canned salmon. Oceanic Sales Co. 268,247; Mar. 11; Serial No. 284,362; published Dec. 31, 1929.
Canned salmon. Pacific American Fisheries. 78,988–99; renewed July 26, 1930.
Canned sardines. Neptune Packing Company. 76,766–7; renewed Feb. 15, 1930.

Canned shrimp. Paul Bougon Fish & Oyster Co. Inc. 268,181; Mar. 11; Serial No. 287,764; published Dec. 31, 1929.
Canned strained vegetable products and fruits. Fremont Canning Company. 268,365; Mar. 11; Serial No. 275,892; published Dec. 24, 1929.
Cheese. N. Z. Cheese Ltd. 268,143; Mar. 11; Serial No. 292,457; published Dec. 24, 1929.
Coffee. Southern Grocery Company. 268,356; Mar. 11; Serial No. 266,563; published Dec. 24, 1929.
Coffee. Woolson Spice Company. 78,923–4; renewed July 19, 1930.
Coffee, tea, cocoa, etc. American Grocery Company. 268,293; Mar. 11; Serial No. 282,089; published Dec. 17, 1929.
Coffees. Samaha Bros. 268,157; Mar. 11; Serial No. 291,338; published Dec. 24, 1929.
Coffees and teas. Gasser Coffee Company. 78,706; renewed July 5, 1930.
Compound of coffee and chicory, and a compound of coffee, cereal, and chicory. New Orleans Coffee Co. 268,170; Mar. 11; Serial No. 289,125; published Dec. 31, 1929.
Eggs. Colorado Poultrymen's Exchange. 268,262; Mar. 11; Serial No. 290,243; published Dec. 24, 1929.
Feed, Stock, cattle, and poultry. Missoula Feed and Grain Company. 268,141; Mar. 11; Serial No. 292,411; published Dec. 24, 1929.
Flour. Stanard-Tilton Milling Company. 268,133; Mar. 11; Serial No. 291,843; published Dec. 24, 1929.
Flour, Wheat. Buffalo Flour Mills Corporation. 268,142; Mar. 11; Serial No. 292,432; published Dec. 24, 1929.
Flour, Wheat. Page Milling Co. 268,135; Mar. 11; Serial No. 292,227; published Dec. 24, 1929.
Fruits. California Lands, Inc. 268,175; Mar. 11; Serial No. 289,572; published Dec. 24, 1929.
Fruits. Carmel Valley Fruit Growers Association. 268,186; Mar. 11; Serial No. 291,714; published Dec. 31, 1929.
Fruits, cantaloupes, and vegetables, Fresh. H. P. Garin Co. 268,172; Mar. 11; Serial No. 289,581; published Dec. 31, 1929.
Fruits, Fresh citrus. Clearwater Growers Association. 268,187; Mar. 11; Serial No. 291,715; published Dec. 31, 1929.
Grapefruit. Yuma Mesa Grapefruit Company. 268,173; Mar. 11; Serial No. 288,944; published Dec. 24, 1929.
Lard. William Moland's Sons. 76,198; renewed Dec. 28, 1929.
Lard, Parcels of. Allbright-Nell Company. 268,185; Mar. 11; Serial No. 291,652; published Dec. 24, 1929.
Marshmallows. Shotwell Mfg. Co. 268,418; Mar. 11; Serial No. 269,694; published Dec. 10, 1929.
Milk, Malted. Borden's Condensed Milk Company. 77,084; renewed Mar 8, 1930.
Milk or milk powder, Desiccated. Dry Milk Company. 76,583–4; renewed Feb. 1, 1930.
Nuts, Edible salted. Ever Fresh Nut Co. 268,234; Mar. 11; Serial No. 283,267; published Dec. 31, 1929.
Oranges and grapefruit. Pasadena Orange Growers Association. 77,563–4; renewed Apr. 19, 1930.
Oysters, Fresh. A. G. Bailey. 78,226; renewed May 31, 1930.
Pop corn. B. M. Layman. 268,368; Mar. 11; Serial No. 275,168; published Dec. 24, 1929.
Raisins, Dried. J. K. Armsby Company. 77,402–3; renewed Apr. 5, 1930.
Sausage patties. Henry Muhs Company. 268,160; Mar. 11; Serial No. 291,014; published Dec. 31, 1929.
Syrup and sugar. Abram Lyle & Sons, Limited. 34,322; renewed Mar. 13, 1930.
Toffee. John Mackintosh and Sons, Limited. 268,159; Mar. 11; Serial No. 290,170; published Dec. 24, 1929.
Toffee. John Mackintosh and Sons, Limited. 268,183; Mar. 11; Serial No. 291,627; published Dec. 24, 1929.
Tomatoes, peppers, and eggplant, Fresh. Sterling Vegetable Growers Association. 268,180; Mar. 11; Serial No. 287,267; published Dec. 31, 1929.

CLASS 47

Champagne. Kunkelmann & Cie. Societe Anonyme. 268,427; Mar. 11; Serial No. 272,500; published Dec. 24, 1929.

CLASS 49

Whiskey. A. Overholt & Company. 268,132; Mar. 11; Serial No. 291,784; published Dec. 24, 1929.

ALPHABETICAL LIST OF LABELS

Ace-Hi Shoes. For Boxes. Hoague-Sprague Corporation. 37,218; Mar. 11.
Arrowhead Nut Margarine Oleomargarine. For Oleomargarine. Bridgeman-Russell Company. 37,200; Mar. 11.
Arterocyn. For Medicinal Preparation. Flint, Eaton & Company. 37,205; Mar. 11.
Aunt Emma's Home Made Egg Noodles. For Egg Noodles. Mrs. E. Hanson. 37,213; Mar. 11.
Bett Lee. For Boxes. Hoague-Sprague Corporation. 37,224; Mar. 11.
Bett Shoe Co. For Boxes. Hoague-Sprague Corporation. 37,222; Mar. 11.
Bischoff's Preparation. For Flavoring Syrups. F. Bischoff, Inc. 37,196; Mar. 11.
Bobrick's Cloudy Ammonia. For Ammonia. Bobrick Chemical Corporation. 37,198; Mar. 11.
Delight. For Malt Syrup. Val Blatz Brewing Company. 37,244; Mar. 11.
Dutch Maid. For Sweet Curd Creamed Cheese. O. C. Wallace. 37,246; Mar. 11.
F4 Banner Battery. For Flash-Light Batteries. Burgess Battery Company. 37,201; Mar. 11.
Fan-Flare Multifold Cravat. For Neckties. Wilson Brothers. 37,248; Mar. 11.
Goldsmith's. For Boxes. Hoague-Sprague Corporation. 37,234; Mar. 11.
Gulf Breeze Grapefruit Juice. For Grapefruit Juice. West Florida Preserving Company, Inc. 37,247; Mar. 11.
Hi B L. For Boxes. Hoague-Sprague Corporation. 37,232; Mar. 11.
Happy-Feet Comforts. For Boxes. Hoague-Sprague Corporation. 37,231; Mar. 11.
Harriette's Blended-Fruit Marmalade. For Marmalade. H. M. Hudson. 37,236; Mar. 11.
Health-O-Pedic. For Boxes. Hoague-Sprague Corporation. 37,226; Mar. 11.
Herold Bertsch Shoe Co. For Boxes. Hoague-Sprague Corporation. 37,223; Mar. 11.
Home Brand. For Maple Syrup. Griggs, Cooper & Company. 37,206; Mar. 11.
Home Brand. For Salmon. Griggs, Cooper & Company. 37,207; Mar. 11.
Home Brand. For Lobsters. Griggs, Cooper & Company. 37,208; Mar. 11.
Home Brand. For Olive Oil. Griggs, Cooper & Company. 37,209; Mar. 11.
Home Brand. For Pork and Beans. Griggs, Cooper & Company. 37,210; Mar. 11.
Home Brand. For Asparagus. Griggs, Cooper & Company. 37,211; Mar. 11.
Home Brand. For Soda. Griggs, Cooper & Company. 37,212; Mar. 11.
Huggins Bros. Certified Eggs. For Eggs. Huggins Bros. 37,237; Mar. 11.
Jersey Rolled Whole Wheat. For Rolled Whole Wheat. Jersey Cereal Company. 37,238; Mar. 11.
King Parrot. For Canned Tomatoes. Anthony Wholesale Grocery Company. 37,194; Mar. 11.
L and D. For Boxes. Hoague-Sprague Corporation. 37,217; Mar. 11.
Lilac Time. For Candy. Bishop & Company. 37,197; Mar. 11.
M. L. & Co. For Boxes. Hoague-Sprague Corporation. 37,214; Mar. 11.
M. W. S. Co. For Boxes. Hoague-Sprague Corporation. 37,221; Mar. 11.
Modern-Miss. For Boxes. Hoague-Sprague Corporation. 37,225; Mar. 11.
Modern Sport Girl. For Boxes. Hoague-Sprague Corporation. 37,219; Mar. 11.
Nassco. For Boxes. Hoague-Sprague Corporation. 37,233; Mar. 11.
Obalex. For Tablets for Treating Obesity. Obex Corporation. 37,240; Mar. 11.
Old Fashioned. For Malt Syrup. Val Blatz Brewing Company. 37,245; Mar. 11.
Princess. For Boxes. Hoague-Sprague Corporation. 37,216; Mar. 11.
Putney Products. For Boxes. Hoague-Sprague Corporation. 37,229; Mar. 11.
Ra-Brand Egyptian Henna. For Hair-Coloring Preparation. Egyptian Products Co. 37,204; Mar. 11.
Ra-Brand Egyptian Henna Shampoo. For Hair-Shampoo Preparation. Egyptian Products Co. 37,203; Mar. 11.
Ranch 2-U Eggs. For Eggs. F. L. Bond. 37,199; Mar. 11.
Rosco. For Boxes. Hoague-Sprague Corporation. 37,230; Mar. 11.
S. J. G. For Boxes. Hoague-Sprague Corporation. 37,215; Mar. 11.
Sodium Tartrate with Citrate of Magnesia. For Effervescing Salts. New Era Chemical Co. 37,239; Mar. 11.
Stanton's Health Wheat. For Cereal Food. Stanton Natural Food Co. 37,242; Mar. 11.
Stanton's Vitality Food. For Prepared Food. Stanton Natural Food Co. 37,241; Mar. 11.
Sunburst. For Firecrackers. J. M. Da Rocha. 37,202; Mar. 11.

Sweeping Imperfections Away. For Cleansing Cream. R. Thornton. 37,243; Mar. 11.
The Bootery. For Boxes. Hoague-Sprague Corporation. 37,235; Mar. 11.
The Peck Shoe. For Boxes. Hoague-Sprague Corporation. 37,220; Mar. 11.
They See the Box First. For Boxes. Hoague-Sprague Corporation. 37,228; Mar. 11.
Whoopee. For Boxes. Hoague-Sprague Corporation. 37,227; Mar. 11.
Wilshire-Valley Eggs. For Eggs. W. M. Baker. 37,195; Mar. 11.

ALPHABETICAL LIST OF PRINTS

El Producto for Real Enjoyment. For Cigars. G. H. P. Cigar Co. 12,442–3; Mar. 11.
El Producto, Mild, for Real Enjoyment. For Cigars. G. H. P. Cigar Co. 12,441; Mar. 11.
Johnson's Sea-Cliff Oysters. For Oysters. A. S. Johnson Fish Co. 12,444; Mar. 11.
Kyanize Celoid Finish K-051. For Varnish and Enamel. Boston Varnish Company. 12,433; Mar. 11.
Kyanize Celoid Finish K-515. For Varnish and Enamel. Boston Varnish Company. 12,430; Mar. 11.
Kyanize Floor Enamel K-401. For Floor Enamel. Boston Varnish Company. 12,436; Mar. 11.
Kyanize Floor Enamel K-415. For Floor Enamel. Boston Varnish Company. 12,428; Mar. 11.
Kyanize Floor Finish K-301. For Floor Varnish and Enamel. Boston Varnish Company. 12,435; Mar. 11.
Kyanize Floor Finish K-315. For Floor Varnish and Enamel. Boston Varnish Company. 12,431; Mar. 11.
Kyanize Lustaquik Finish K-701. For Varnish and Enamel. Boston Varnish Company. 12,434; Mar. 11.
Kyanize Lustaquik Finish K-715. For Varnish and Enamel. Boston Varnish Company. 12,429; Mar. 11.
Look Around Your Home, Your Guests Do K-303. For Floor Finish. Boston Varnish Company. 12,438; Mar. 11.
Look Around Your Home, Your Guests Do K-403. For Floor Enamel. Boston Varnish Company. 12,440; Mar. 11.
Look Around Your Home, Your Guests Do K-501. For Celoid Finish. Boston Varnish Company. 12,437; Mar. 11.
Look Around Your Home, Your Guests Do K-701. For Lustaquik Finish. Boston Varnish Company. 12,439; Mar. 11.
Look Around Your Home, Your Guests Do K-930. For Varnish and Enamel. Boston Varnish Company. 12,427; Mar. 11.
Look Around Your Home, Your Guests do K-950. For Varnish and Enamel. Boston Varnish Company. 12,432; Mar. 11.
R E V. For High-Velocity Motor Fuel. Texas Petroleum Company. 12,448; Mar. 11.
Sterlene. For Petroleum Products. Texas Petroleum Products. 12,447; Mar. 11.
Ster-O-Clean. For Cleaner's Naphtha. Texas Petroleum Company. 12,449; Mar. 11.
Velvet Pencil. For Pencils. American Lead Pencil Company. 12,425; Mar. 11.
Venus Copying Pencils. For Pencils. American Lead Pencil Company. 12,424; Mar. 11.
We Start the New Year with a New Store, Etc. For Jewelry and Silverware. Black, Starr & Frost-Gorham, Inc. 12,426; Mar. 11.
Wherever You Go—You Find Blue Ribbon Malt. For Malt Extract. Premier Malt Products Co. 12,446; Mar. 11.
Williams Powerful Coal. For Coal. Nashville Coal Company. 12,445; Mar. 11.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A B C Rug Cleaners Inc. (See Stride, William T., assignor.)
A C Spark Plug Company. (See Keeney, Don E., assignor.)
Abascal, Manuel, San Francisco, Calif. Wire-tightening device. 1,750,252; Mar. 11.
Abbott Laboratories. (See Brush, Albert D., assignor.)
Abrahamson, Henry, Chicago, Ill. Sanitary appliance. 1,750,084; Mar. 11.
Abramofsky, Joseph, Toledo, Ohio. Clothing shield. 1,750,560; Mar. 11.
Accurate Gasoline Recording Company. (See Mason, A. R., and Failing, assignors.)
Ackerman, Edward L., and A. J. Zwierzina, Detroit, Mich. Demountable rim for automobile wheels. 1,750,208; Mar. 11.
Ackerman, Edward L., and A. J. Zwierzina, Detroit, Mich. Demountable rim. 1,750,209; Mar. 11.
Adam, William J., assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Photo-engraver's printing frame. 1,750,253; Mar. 11.
Adams Bros. Mfg. Co. (See Steffen, Adolf, assignor.)
Adams, Walter S., assignor to The J. G. Brill Company, Philadelphia, Pa. Railway car. 1,750,559; Mar. 11.
Addressograph Company. (See Thompson, Herbert L., assignor.)
Adler, Oscar and R., Karlsbad, Czechoslovakia. Sterilizing of water. 1,750,561; Mar. 11.
Adler, Rudolf. (See Adler, Oscar and R.)
Advance-Rumely Company. (See Ballentine, W. I., and Thompson, assignors.)
Aeromotor Company. (See Scholes, Daniel R., assignor.)
Aglow, Harry, Philadelphia, Pa., assignor to Gill Glass and Fixture Company. Lighting fixture. Des. 80,666; Mar. 11.
Ahlin, Axel. (See Ahlin, Hjalmar and A.)
Ahlin, Hjalmar and A., Chicago, Ill. Lifter. 1,740,796; Mar. 11.
Aichele, Albert, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Automatic pressure-operated switch. 1,750,341; Mar. 11.
Aircraft Development Corporation. (See Upson, Ralph H., assignor.)
Akins, Clifford M., Minneapolis, Minn. Apparatus for regulating a heating means. 1,750,085; Mar. 11.
Akrigg, Stanley, Dryburg, Mich. Folding umbrella. 1,750,379; Mar. 11.
Akron Standard Mold Company, The. (See Fleiter, A. J., Bostwick, and Miller, assignors.)
Aktiengesellschaft Brown, Boveri and Cie. (See Aichele, Albert, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Frey, Karl, assignor.)
Aktiebolaget Siefrert & Fornander. (See Dietmann, Paul W., assignor.)
Albertine, Herman, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc. High-power grease gun. 1,750,150; Mar. 11.
Albertine, Herman, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc. Grease gun. 1,750,151; Mar. 11.
Albrecht, Albert W., University City, Mo. Cast-metal car body. 1,749,756; Mar. 11.
Alderfer, Sterling W., Akron, Ohio, assignor to National Standard Company, Niles, Mich. Reenforcement for tire beads. 1,749,899; Mar. 11.
Alland, Maurice, Atlantic City, N. J. Elastic-propelled toy vehicle. 1,750,152; Mar. 11.
Allison, Harry S., assignor to W. D. Allison, Indianapolis, Ind. Examining table. 1,749,867; Mar. 11.
Allison, William D. (See Allison, Harry S., assignor.)
Allman, Peter, Manchester, England. Printing surface. 1,750,562; Mar. 11.
Altgelt, Herman E., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Differential mechanism. 1,749,964; Mar. 11.
American Anode, Inc. (See Klein, Paul, assignor.)
American Bank Note Company. (See Wood, Frank T., assignor.)
American Box Board Company. (See Bonfield, Emmons W., assignor.)
American Can Company. (See Young, John M., assignor.)
American Fibre Corporation. (See Nordstrom, Gustaf E., assignor.)
American Hammered Piston Ring Company. (See Morton, Allen W., assignor.)
American Rubber Products Corporation. (See Olson, Nels L., assignor.)
American Sheet and Tin Plate Company. (See Evans, A. D., and Lamoree, assignors.)
American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)
American Steel Products Co. (See Tolley, Donald B., assignor.)
American Telephone and Telegraph Company. (See Loye, Donald P., assignor.)
American Telephone and Telegraph Company. (See Niles, Eliot W., assignor.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Telephone and Telegraph Company. (See Roberts, Leland C., assignor.)
American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)
American Tin Company. (See Connor, William M., assignor.)
Anderson, John A., Pittsburgh, Pa., and W. H. Elmes, Toronto, Ontario, Canada. Automatic air control for water-supply systems. 1,749,797; Mar. 11.
Anderson, William K., Cleveland, Ohio. Automobile mirror. 1,749,868; Mar. 11.
Anderson, William T., jr., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J. Alternating-current vapor electrical device. 1,749,993; Mar. 11.
Anderson, William T., jr., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J. Water-cooled mercury-vapor arc lamp. 1,749,994; Mar. 11.
Anderson, William T., jr., and L. F. Bird, assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J. Securing good electrical contact with crystalline cuprous oxide. 1,749,995; Mar. 11.
Andrew, Thomas E., and M. Langstreth, Rochdale, assignors to Dunlop Cotton Mills Limited, London, England. Machine for spinning, doubling, twisting, and the like yarns, fibers, and the like. 1,750,153; Mar. 11.
Andrews, Alfred J., trustee. (See Pogue, Charles N., assignor.)
Armacost, Wilbur H., assignor to The Superheater Company, New York, N. Y. Header for water-tube boilers. 1,750,254; Mar. 11.
Armitage, Joseph B. (See Trecker, T., and Armitage.)
Armstrong, Maurice M., New Harmony, Ind. Battery connecter. 1,750,501; Mar. 11.
Arnaiz, Frank, Los Angeles, Calif. Safety parachute. 1,749,965; Mar. 11.
Aron, William P., assignor of one-half to E. Rorex, Dallas, Tex. Combined pencil and lighter. 1,750,255; Mar. 11.
Associated Electrical Industries Limited. (See Hinton, Norman P., assignor.)
Ateliers Hanrez Societe Anonyme. (See Modave, André, assignor.)
Aulbach, Charles J., and W. F. Punte, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y. Easy-opening container. 1,750,380; Mar. 11.
Auray, Adelbert R. (See Hayes, Neil G., assignor.)
Austin, Mary, Rosemont, Pa. Corn-pulp extractor. 1,750,210; Mar. 11.
Auto Prime Pump Company. (See Ferguson, Gale L., assignor.)
Badger, Ernest C. (See Runge, A. C., and Badger.)
Baier, John M., Olmsted County, assignor of one-half to W. H. H. Greene, Rochester, Minn. Corn harvester. 1,749,749; Mar. 11.
Bailey, Howard C., Los Angeles, Calif., assignor, by mesne assignments, to R. W. Tull, Fanwood, N. J. Table top. 1,749,750; Mar. 11.
Bailey, Wells S., Detroit, Mich. Carbon-monoxide consumer. 1,750,342; Mar. 11.
Baker, George R., C. Dumbleton, and J. C. Paterson, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich. Unloading and stacking mechanism for biscuit ovens. 1,750,452; Mar. 11.
Baker Perkins Company. (See Baker, G. R., Dumbleton, and Paterson, assignors.)
Baker, Thomas A., Bakersfield, Calif. Rotary internal-combustion engine. 1,750,502; Mar. 11.
Baker, William S., assignor to Illinois Piston and Ring Company, Fort Worth, Tex. Piston ring. 1,750,381; Mar. 11.
Ballentine, William I., and P. R. Thompson, assignors to Advance-Rumely Company, La Porte, Ind. Tractor. 1,750,453; Mar. 11.
Barber Asphalt Company, The. (See Browne, Frank A., assignor.)
Barbieri, Cesare, New York, N. Y., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill. Rolled-edge cone cup. 1,750,454; Mar. 11.

Barnett, Arthur J., New York, N. Y., assignor to The Worcester Knitting Co., Worcester, Mass., Brassière for bathing suits. 1,749,966; Mar. 11.

Barnett, Harry R., Denver, Colo. Apparatus for selective verbatim coding and decoding. 1,749,933; Mar. 11.

Barry, Joseph R., Fairfield, Conn. Auto screen. 1,750,343; Mar. 11.

Bassick Company, The. (See Herold, Walter F., assignor.)

Bassist, Ellis, Milwaukee, Wis., assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y. Step and repeat printing apparatus. 1,750,294; Mar. 11.

Bath, Wilmer H., West Conshohocken, assignor to The Sharples Specialty Company, Philadelphia, Pa. Centrifugal machine. 1,750,154; Mar. 11.

Baumbach, Albert G., Anaheim, Calif. Fishing tool. 1,749,869; Mar. 11.

Bausch & Lomb Optical Company. (See Loeser, Edward O., assignor.)

Beardmore, William. (See Chorlton, Alan E. L., assignor.)

Beeman, Henry F., Fort Collins, Colo. Gas-saving attachment for internal-combustion engines. 1,750,086; Mar. 11.

Beers, Huribut P., Schenectady, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn. Resurfacing records. 1,750,155; Mar. 11.

Beggs, Charley M., Rock Falls, Ill. Combined mole and rat trap. 1,749,870; Mar. 11.

Belin, Allen O. (See Klim, A. H., Johnson, Nelson, Belin, and Lundsten.)

Bell, Frank B., and O. R. Wikander, assignors to Edgewater Steel Company, Pittsburgh, Pa. Draft gear. 1,750,455; Mar. 11.

Bell Telephone Laboratories, Incorporated. (See Blount, Nelson, assignor.)

Benjamin Electric Mfg. Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Mfg. Company, Chicago, Ill. Condenser. 1,749,967; Mar. 11.

Berger, Joseph, Carson City, Nev. Tire-deflation switch. 1,750,563; Mar. 11.

Berger, Joseph E., Bloomfield, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Box or similar article. Des. 80,667; Mar. 11.

Berger Manufacturing Company, The. (See Schmitz, Fred A., assignor.)

Bergsten, John, Redondo Beach, Calif. Furniture caster. 1,749,751; Mar. 11.

Berkshire Knitting Mills. (See Hemmerich, Hugo, assignor.)

Berlin Chapman Company. (See Chapman, Frank D., assignor.)

Berry, Hiram N., assignor to Cotton Harvester Corporation of America, Greenville, Miss. Cotton picker. 1,750,034; Mar. 11.

Bettendorf, Joseph W., Bettendorf, Iowa. Car-truck side frame. 1,750,344; Mar. 11.

Beyer, Alex A., Torrington, Conn. Card holder. Des. 80,668; Mar. 11.

Beyer, Alex A., Torrington, Conn. Card holder. Des. 80,669; Mar. 11.

Billenwillms, Albert L., Augusta, Kans. Tubing-line attachment. 1,750,564; Mar. 11.

Binsack, Frank J., et al. (See Pavelsky, Thomas R., assignor.)

Bird, Lester F. (See Anderson, W. T., jr., and Bird.)

Bird, Lester F. (See Robinson, F. W., and Bird.)

Bitzer, Gottlob. (See Meyer, C. F., and Bitzer.)

Blackmore, Lloyd, Highland Park, assignor to General Motors Corporation, Detroit, Mich. Internal brake. 1,750,611; Mar. 11.

Blair, John H., Chicago, Ill. Excavating and loading machine. 1,749,968; Mar. 11.

Blake, Ell J., Buffalo, assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Electrical system of distribution. 1,750,156; Mar. 11.

Blake, Ell J., Rochester, assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y. Regulating apparatus. 1,750,157; Mar. 11.

Blakeman, Thomas W., Long Beach, Calif. Strainer. 1,750,158; Mar. 11.

Bleecker, Warren F., and E. A. Clark, Boulder, Colo. Paint, varnish, and enamel and their production. 1,750,087; Mar. 11.

Bliss, Charles W., South Bend, Ind. Compound hook. 1,749,871; Mar. 11.

Blossom, Charles, Celina, Ohio. Pipe or analogous mouthpieces. 1,750,503; Mar. 11.

Blount, Nelson, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Desk stand for a hand telephone. Des. 80,670; Mar. 11.

Blount, Nelson, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Desk stand for a hand telephone. Des. 80,671; Mar. 11.

Blount, Nelson, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Desk stand for a hand telephone. Des. 80,672; Mar. 11.

Blum, Robert J. (See Ralston, Hurley D., assignor.)

Boeing Airplane Company. (See Canney, Frank R., assignor.)

Boeing Airplane Company. (See Marsh, Louis S., assignor.)

Boer, Westinus, Groton, Conn. Propelling device. 1,750,382; Mar. 11.

Bohn Aluminum and Brass Corporation. (See Eggenweiler, Charles W., assignor.)

Bolzard, Raoul, Paris, France. Reflector water gauge. 1,750,383; Mar. 11.

Bolinder, Erik A., Stockholm, Sweden. Handle. 1,749,752; Mar. 11.

Bone, Herbert L., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway braking apparatus. 1,750,345; Mar. 11.

Bonfield, Emmons W., assignor to American Box Board Company, Grand Rapids, Mich. Table top. 1,750,256; Mar. 11.

Bonnell, William A., Brooklyn, N. Y. Outlet-box clamp bushing. 1,750,257; Mar. 11.

Borden Company. (See Nonneman, Ira W., assignor.)

Borm, Ferdinand H., Chicago, Ill. Registering-device-actuating means. 1,750,450; Mar. 11.

Bostwick, Henry C. (See Fleiter, A. J., Bostwick, and Miller.)

Böttcher, Paul, jr., Altona-Bahrenfeld, near hamburg, Germany. Method of and apparatus for cutting toothed gears. 1,750,384; Mar. 11.

Boudin, Louis, St.-Gobain, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Manufacture of glass sheets. 1,749,798; Mar. 11.

Bowen, Michael B., assignor to Faries Manufacturing Company, Decatur, Ill. Adjustable electric portable cluster. 1,749,799; Mar. 11.

Boye, James H., Chicago, Ill. Curtain and portière rod. Des. 80,673; Mar. 11.

Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 80,674; Mar. 11.

Bradshaw, Richard, Montreal, Quebec, Canada, assignor to Simmons Company, New York, N. Y. Metal-furniture construction. 1,750,457; Mar. 11.

Bradshaw, Samuel S., and C. A. Martindale, Seminole, Okla. Hydraulic-control head closure. 1,750,211; Mar. 11.

Bragard, Theodor, assignor to the firm of Macao-Walzenmuhlen-Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Grinding mill. 1,750,088; Mar. 11.

Bresnahan, Maurice V., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole-holding device. 1,749,900; Mar. 11.

Brill, J. G., Company, The. (See Adams, Walter S., assignor.)

British Dyestuffs Corporation. (See Wyler, Max, assignor.)

Britten, Edwin F., jr., Maplewood, assignor, by mesne assignments, to Monroe Calculating Machine Company, Orange, N. J. Zero-key mechanism for key-set registers. 1,750,565; Mar. 11.

Broadhurst, Frank S., Watertown, Mass. Automotive control system. 1,750,159; Mar. 11.

Brodin, Arvid, Los Angeles, Calif. Water heater. 1,749,969; Mar. 11.

Brooks, John C., Paterson, N. J., assignor to Draper Corporation, Hopedale, Mass. Loom. 1,750,385; Mar. 11.

Brougher, Alvin H., Markleton, Pa. Scissors sharpener. 1,750,504; Mar. 11.

Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Brake rigging for railway cars and the like. 1,750,566; Mar. 11.

Brown Company. (See Hill, Roger B., assignor.)

Brown, Donald D., Valley Stream, N. Y. Package. 1,750,258; Mar. 11.

Brown, Stanley, Garden City, assignor to The Griscom-Russell Company, New York, N. Y. Decerator. 1,750,035; Mar. 11.

Brown, Walter J., Brooklands, England. Space-current device. 1,750,386; Mar. 11.

Browne, Frank A., Wayne, assignor to The Barber Asphalt Company, Philadelphia, Pa. Elevator. 1,749,872; Mar. 11.

Brownyer, Nelson R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Expanding brake. 1,749,901; Mar. 11.

Bruce, Alfred W., New York, N. Y. Steam boiler. 1,750,295; Mar. 11.

Brush, Albert D., Chicago, assignor to Abbott Laboratories, North Chicago, Ill. Package for perishable medicated articles. 1,749,906; Mar. 11.

Brutnell, Brightie E., et al. (See Hope, Charles S., assignor.)

Buchanan, Ernest L. (See Russell, S. G., Buchanan, and Potter.)

Buchholtz, Walter M., et al. (See Howson, Charles T., assignor.)

Budd Wheel Company. (See Hughes, James W., assignor.)

Budd Wheel Company. (See Ledwinka, Joseph, assignor.)

Budd Wheel Company. (See Martin, Arthur, assignor.)

Budd Wheel Company. (See Meadowcroft, Joseph W., assignor.)

Buettell, Paul E. (See Emerson, C. L., and Buettell.)

Bulka, Michael N., Chicago, Ill. Astronomical clock. 1,750,505; Mar. 11.

Bunker, Herbert H., assignor to Kerlow Steel Floor Company, Jersey City, N. J. Floor grating. 1,749,902; Mar. 11.

Burke Electric Company. (See Burke, James, assignor.)

Burke, James, Erie, Pa., assignor to Burke Electric Company. Ventilating system. 1,750,458; Mar. 11.

Burkhartzmeyer, Jacob J., Rochester, N. Y. Plant and flower support. 1,750,387; Mar. 11.

Cairns Development Company. (See Carns, Edmund B., assignor.)

Caldwell, John H., Twin Falls, Idaho. Link mat. 1,750,388; Mar. 11.

Callsen, Albert, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,750,259; Mar. 11.

Cambridge Rubber Company. (See Dunbar, Ernest W., assignor.)

Cambridge Rubber Company. (See MacPherson, W., and Dunbar, assignors.)

Campbell, Harry E., assignor to Campbell Metal Window Corporation, Baltimore, Md. Window sash and frame construction. 1,750,296; Mar. 11.

Campbell Metal Window Corporation. (See Campbell, Harry E., assignor.)

Campbell, Neil L., assignor to Mannington Mills, Inc., Salem, N. J. Apparatus for making mottled floor coverings. 1,750,567; Mar. 11.

Candee, Andrew H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Mfg. Company. Power system. 1,750,297; Mar. 11.

Canney, Frank R., assignor to Boeing Airplane Company, Seattle, Wash. Surface control mechanism for airplanes. 1,750,089; Mar. 11.

Cannon, Charles D., Cleveland, Ohio. Sheet-metal fastening. 1,749,903; Mar. 11.

Carew, Herman, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Dish holder. 1,750,568; Mar. 11.

Carlson, Edwin G., Riverside, assignor to Speidel Chain Co., Providence, R. I. Extension device. 1,749,997; Mar. 11.

Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Metal fuselage or body. 1,749,757; Mar. 11.

Carroll, Fred M., Yonkers, assignor to The Tabulating Machine Company, Endicott, N. Y. Individually-resettable accumulator-unit tabulator. 1,750,459; Mar. 11.

Carson, Clarence M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Composition of matter and employing same. 1,750,460; Mar. 11.

Caskey, Emmett, Council Bluffs, Iowa. Rotary pump. 1,750,212; Mar. 11.

Casserly, Thomas D., Chicago, Ill., assignor to Weil-McLain Company, Michigan City, Ind. Heater. 1,749,904; Mar. 11.

Caulfield, Carl C., Niles, Ohio. Lamp changer. 1,749,753; Mar. 11.

Central Furniture Frame Co. (See Stoll, Charles, assignor.)

Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)

Chalfonte, Albin L. (See Guire, H. G., and Chalfonte.)

Chambers, Howard E., Long Beach, Calif. Head, nose, eye, and ear protective means. 1,750,036; Mar. 11.

Chance, Thomas M., Merion Borough, Montgomery County, and H. O. Staples, Scranton, Pa. Method and apparatus for separating materials of different specific gravities. 1,750,090; Mar. 11.

Chandonia, Elmer H., Dayton, Ky., assignor to Lockwood Manufacturing Company, Cincinnati, Ohio. Baking-pan unit. 1,749,800; Mar. 11.

Chapman, Albert B., et al. (See Howson, Charles T., assignor.)

Chapman, Frank D., assignor to Berlin Chapman Company, Berlin, Wis. Automatic feeding device. 1,749,801; Mar. 11.

Chase, Edmund A. (See Jones, H. K., and Chase.)

Chason, John W., Chandler, Ariz. Humidifying apparatus. 1,750,569; Mar. 11.

Check, Tolbert F., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y. Eliminate noise in parts of record-controlled musical instruments. 1,750,037; Mar. 11.

Chemische Fabrik Pott & Co. (See Pott, Rainer H., assignor.)

Chesterman, Frank E., Noble, Pa. Truss pad. 1,750,461; Mar. 11.

Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Transfer and feeler control mechanism for shuttle-changing looms. 1,749,934; Mar. 11.

Chiles, George S. (See Dreibuss, H. C., and Chiles.)

Chilton, Ralph H., assignor to The Inland Manufacturing Company, Dayton, Ohio. Spring shackle. 1,750,346; Mar. 11.

Chorlton, Alan E. L., assignor of one-half to W. Beardmore, London, England. Internal-combustion engine. 1,750,570; Mar. 11.

Chorlton, Alan E. L., assignor of one-half to W. Beardmore, London, England. Internal-combustion engine. 1,750,571; Mar. 11.

Christiansen, William F., Chicago, Ill., assignor to The Zangerle and Peterson Company. Davenport or like article. Des. 80,675; Mar. 11.

Christopher, Calvin F., Canton, N. C. Filling-station machine. 1,750,389; Mar. 11.

Chromeplate, Inc. (See Lichtman, Louis, assignor.)

Chumos, Constantine G. (See Collins, Robert E., assignor.)

Cincinnati Grinders Incorporated. (See Holmes, Harold W., assignor.)

Clapp, Clara, administratrix. (See Clapp, Solon F.)

Clapp, Solon F., deceased, Temple, Tex., by C. Clapp, administratrix. Ballast-dressing machine for railroads. 1,750,506; Mar. 11.

Clark, Ellsworth A. (See Bleecker, W. F., and Clark.)

Clarke, Henry J. (See Mojonnier, J. J., Phillips, and Clarke.)

Cline, Earl E. (See Holmes, E. W., and Cline.)

Cloetens, Georges, Brussels, Belgium. Musical instrument. 1,750,572; Mar. 11.

Cochrane, James W. (See Havelock, E. W., and Cochrane.)

Cochrane, Louise M., et al. (See Havelock, E. W., and Cochrane, assignors.)

Coe, Daniel W., and C. E. Thompson, Montreal, Quebec, Canada. Unloading device. 1,749,935; Mar. 11.

Coffey, Newton W., El Paso, Tex. Automobile signal. 1,749,936; Mar. 11.

Collins, Edward, Tacoma, Wash. Artificial-limb connecter. 1,750,213; Mar. 11.

Collins, James, et al. (See Pavelsky, Thomas R., assignor.)

Collins, Merrill D., Detroit, Mich. Fireman's helmet. 1,749,998; Mar. 11.

Collins, Robert E., assignor of 25 per cent to C. G. Chumos, Topeka, Kans. Automatic liquid-dispensing machine. 1,749,970; Mar. 11.

Columbia Phonograph Company. (See Hamling, Eric V., assignor.)

Combustioneer, Inc. (See Goddard, Ray C., assignor.)

Comstock, Charles, New Hyde Park, N. Y. Door holder. 1,749,905; Mar. 11.

Concepcion, Gabriel de la Peña. Typewriting machine. 1,750,507; Mar. 11.

Condit Electrical Manufacturing Corporation. (See Wood, Morris B., assignor.)

Congoleum-Nairn, Inc. (See Fauser, Gustave M., assignor.)

Continental Oil Company. (See Stephenson, Bird R., assignor.)

Cooling & Air Conditioning Corporation, The. (See Fleisher, Walter L., assignor.)

Connor, William M., assignor to American Tin Company, Inc., Baltimore, Md. Deep metal refiner. 1,750,390; Mar. 11.

Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Antenna system. 1,750,347; Mar. 11.

Consolidated Automatic Merchandising Corporation. (See Woods, Harold B., assignor.)

Continental Can Company. (See Aulbach, C. J., and Punte, assignors.)

Continental Can Company. (See Coyle, J., and Plumb, assignors.)

Cooper, Warren E., New York, N. Y., and F. K. Habenicht, assignors to Western Railway Equipment Company, St. Louis, Mo. Placard holder for tank cars. 1,750,091; Mar. 11.

Copony, Alfred, Mount Clemens, assignor to Copony Auto Loading Company, Detroit, Mich. Loading or decking device for automobiles in freight cars. 1,749,758; Mar. 11.

Copony Auto Loading Company. (See Copony, Alfred, assignor.)

Cormier, Gustave J., Seminole, Okla. Crown block. 1,749,906; Mar. 11.

Corbett, Alfred, Irwin, Pa., assignor to Westinghouse Electric & Mfg. Company. Circuit breaker. 1,750,208; Mar. 11.

Cornelius, John W., assignor to General Mill Equipment Company, Kansas City, Mo. Conditioning grain. 1,750,508; Mar. 11.

Cornelius, Louis A., assignor to Wolverine Brass Works, Grand Rapids, Mich. Valve. 1,750,462; Mar. 11.

Corning Glass Works. (See Gray, David E., assignor.)

Cornish, Harry B. (See Spencer, G. A. B., and Cornish.)

Cotton Harvester Corporation of America. (See Berry, Hiram N., assignor.)

Cousino, Walter P., Detroit, Mich. Carburetor air control. 1,749,873; Mar. 11.

Coutant, George E., Decatur, Ill. Car construction. 1,749,874; Mar. 11.

Cox, Joseph D. (See Kalo, Albert assignor.)

Coyle, John, Baltimore, Md., and W. Plumb, Jersey City, N. J., assignors to Continental Can Company, Inc., New York, N. Y. Can-end-feeding mechanism. 1,750,391; Mar. 11.

Craig, Arthur S., Kansas City, Mo. Tire-deflation signal. 1,750,509; Mar. 11.

Crawford, Robert B. P., Chicago, Ill., and R. D. Snyder, Hazleton, Pa. Electroplating process. 1,750,092; Mar. 11.

Creamery Package Mfg. Company, The. (See Godfrey, Joseph H., assignor.)

Creamery Package Mfg. Company, The. (See Soelch, George F., assignor.)

Cremen, Daniel J., Blackwood, N. J. Cap. Re17,620; Mar. 11.

Crespi, Emilio, Crespi-sur-L'Adda, Italy, and M. P. Otto, Paris, France. Apparatus for bleaching textile fibers with a gaseous current such as ozonized air. 1,750,093; Mar. 11.

Crocker, Edna L., Denver, Colo. Manually-held supporting device for assisting children in learning to walk. 1,749,999; Mar. 11.

Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)
Crowe, Paul L., Baltimore, Md. Abrading and crushing machine. 1,750,573; Mar. 11.
Cubberley, Warner I., Washington, D. C. Sectional desk accessory. 1,750,575; Mar. 11.
Cubberley, Warner I., Washington, D. C. Desk distributor set. 1,750,576; Mar. 11.
Culmer, Thaddeus W., and W. K. Marbry, Robinson, Ill. Metering valve. 1,749,802; Mar. 11.
Daechsel, Frederick A., Ottawa, Ontario, Canada. Direction indicator. 1,749,754; Mar. 11.
Dallinga, Charles L., Akron, Ohio. Vegetable washer. 1,750,612; Mar. 11.
Davis, Eli S., Kansas City, Mo. Valve-lifting device. 1,749,875; Mar. 11.
Davis, Garvin H., Healdton, Okla. Tire-inflating device. 1,750,214; Mar. 11.
Davis, Tenney L., Norwell, Mass., assignor of one-half to W. O. Snelling, Allentown, Pa. Compound of cobalt cyanate with a tertiary base. 1,750,160; Mar. 11.
Day, Charles M. (See McClellan, L. N., Kinzie, Savage, and Day.)
Day, William P., Cleveland Heights, Ohio. Shock-absorber attachment. 1,750,510; Mar. 11.
Dayton Scale Company. (See Wood, George R., assignor.)
Deacon, Colin O., Welgedacht, Transvaal, South Africa. Derailing tubs, trucks, and the like in the event of their attaining an excessive speed. 1,749,803; Mar. 11.
Deans, William, East Orange, N. J., and H. J. Kaufman, Chicago, Ill., assignors to Sundh Electric Company, Newark, N. J. System of motor control. 1,750,161; Mar. 11.
De Bracht, Joseph, Altoona, assignor of one-half to C. H. Smith, Bedford, Pa. Knife attachment. 1,750,577; Mar. 11.
Deere & Company. (See Paradise, Louis A., assignor.)
Deere & Company. (See White, Charles E., assignor.)
Delnstein, Abraham, Chicago, Ill. Cloth holder. 1,750,463; Mar. 11.
De la Peña Concepcion, Gabriel. (See Concepcion, Gabriel de la Peña.)
Delco-Light Company. (See Fisher, Harry G., assignor.)
Delco-Remy Corporation. (See Dyer, John B., assignor.)
Delco-Remy Corporation. (See Elsey, George W., assignor.)
Delco-Remy Corporation. (See Emmert, Rodger J., assignor.)
Delco-Remy Corporation. (See Lawson, John W., assignor.)
Delco-Remy Corporation. (See Norviel, Harry E., assignor.)
Delco-Remy Corporation. (See Prescott, Frank H., assignor.)
Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus and method of vulcanization. 1,750,613; Mar. 11.
Deppeler, John H., Weehawken, N. J. Thermit mixture. 1,750,162; Mar. 11.
Dettenhorn, Louis F., Hartford, Conn. Drawer. 1,749,937; Mar. 11.
Deutsche Gasglühlicht-Auer-Gesellschaft mit beschränkter Haftung. (See Specht, Norbert, assignor.)
Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H. (See Lichtenstein, Edmund, assignor.)
Deutsche Werke Kiel Aktiengesellschaft. (See Ulrich, Wilhelm, assignor.)
Diamond Power Specialty Corporation. (See Thomas, Willis F., assignor.)
Diblick, Frank, et al. (See Pucek, Felix, assignor.)
Dick, Joseph, Manufacturing Company, The. (See Hamaker, Sidney U., assignor.)
Dictaphone Corporation. (See Beers, Hurlbut P., assignor.)
Dielmann, Henry, Woodhaven, N. Y. Resilient wheel for vehicles. 1,750,260; Mar. 11.
Dietmann, Paul W., Jonkoping, assignor to Aktiebolaget Siefrert & Fornander, Kalmar, Sweden. Device for collecting finished matches from matchmaking machines. 1,750,392; Mar. 11.
Dina, Augusto, Jersey City, N. J., assignor to The Precision Machine Co., Inc., New York, N. Y. Fire-shutter automatic release. 1,749,971; Mar. 11.
Disney, James L., Jenkintown, Pa. Insect trap. 1,750,163; Mar. 11.
De Laval Separator Company, The. (See Forsberg, Erik A., assignor.)
Dohme, Alfred R. L., assignor to Sharp & Dohme, Inc., Baltimore, Md. Production of acyl resorcinols. 1,750,290; Mar. 11.
Dorsey, Farnum F., assignor, by mesne assignments, to North East Appliance Corporation, Rochester, N. Y. Electric horn. 1,750,348; Mar. 11.
Dowell, Archie G., assignor of one-half to F. A. Sutherland, San Diego, Calif. Carburetor. 1,750,349; Mar. 11.
Downer, David, Cimarron, Kans. Screen patch. 1,749,755; Mar. 11.
Downey, Clement L., Cincinnati, Ohio. Coin-counting machine. 1,750,578; Mar. 11.
Draper Corporation. (See Brooks, John C., assignor.)
Draper Corporation. (See Reid, Thomas E., assignor.)
Dreibuss, Harry C., assignor to Scullin Steel Co., St. Louis, Mo. Journal-box construction. 1,749,759; Mar. 11.
Dreibuss, Harry C., and G. S. Chiles, assignors to Scullen Steel Company, St. Louis, Mo. Cast-metal truck bolster. 1,749,972; Mar. 11.
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier Condenser Corporation. (See Nyman, Alexander, assignor.)
Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
Dubilier, William, assignor to Dubilier Condenser Corporation, New York, N. Y. Variable condenser. 1,750,393; Mar. 11.
Ducas, Charles, New York, N. Y. Cigarette extinguishing and crushing device. 1,750,164; Mar. 11.
Dugan, Hugh G., Hinsdale, Ill. Toy windmill. 1,749,804; Mar. 11.
Dumbleton, Claude. (See Baker, G. R., Dumbleton, and Paterson.)
Dumont, Joseph, Gardner, Mass. Tenoning cutter head. 1,750,394; Mar. 11.
Dunbar, Ernest W. (See MacPherson, W., and Dunbar.)
Dunbar, Ernest W., Hudson, assignor to Cambridge Rubber Company, Cambridge, Mass. Overshoe and making the same. 1,750,165; Mar. 11.
Dunbar, Noel S., New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Radiocabinet or similar article. Des. 80,676; Mar. 11.
Duncan, William M., Alton, Ill. Brake shoe. 1,749,760; Mar. 11.
Dunlop Cotton Mills Limited. (See Andrew, T. E., and Langstreth, assignors.)
Dunn, George W., Newport, Ky. Process of and apparatus for molding building blocks. 1,750,511; Mar. 11.
Dunwoody, Henry H. C., Interlaken, N. Y. Modulator for radiotelephones. 1,750,579; Mar. 11.
Dwyer, Earl P., El Paso, Tex. Vanity case. 1,750,215; Mar. 11.
Dyar, John W., Detroit, Mich. Furnace. 1,749,907; Mar. 11.
Dyar, John W., Detroit, Mich. Boiler furnace. 1,749,908; Mar. 11.
Dyar, John W., Detroit, Mich. Nipple construction for boiler furnaces. 1,749,910; Mar. 11.
Dyar, John W., Grosse Pointe, Mich. Steam connection for boiler furnaces. 1,749,909; Mar. 11.
Dyer, John B., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine starter. 1,750,300; Mar. 11.
Eastman Kodak Company. (See Fritts, Edwin C., assignor.)
Eastman Kodak Company. (See Fuerst, Carl C., assignor.)
Eastman Kodak Company. (See Schoen, Arthur L., assignor.)
Ebel, Gregory N., St. Paul, Minn. Chicken-feeding hopper. 1,750,580; Mar. 11.
Eddy, Charles W., East Providence, R. I. Type-casting machine. 1,750,166; Mar. 11.
Edison, Thomas A., Incorporated. (See Dunbar, Noel S., assignor.)
Edgewater Steel Company. (See Bell, F. B., and Wikander, assignors.)
Elling, Paul. (See Stock, J. J. F., and Elling.)
Egg, Hartmann, Zurich, assignor to the firm Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland. Vacuum switch for alternating current. 1,750,581; Mar. 11.
Eggenweiler, Charles W., assignor to Bohn Aluminum and Brass Corporation, Detroit, Mich. Broaching machine. 1,749,761; Mar. 11.
Elco Shoe Manufacturers, Inc. (See Litschutz, Henry, assignor.)
Electrolux Servel Corporation. (See Taylor, Robert S., assignor.)
Elliott, Henry, Glasgow, Scotland. Handling, holding, storing, and displaying rolls of linoleum, fabric, and other material in the form of rolls. 1,750,582; Mar. 11.
Elliott, Otto L., Westville, Okla. Road surfacer. 1,749,805; Mar. 11.
Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Composition containing chlor rubber. 1,750,583; Mar. 11.
Ellor, James E., assignor to Rolls Royce Limited, Derby, England. Centrifugal steam separator. 1,750,395; Mar. 11.
Elmes, William H. (See Anderson, J. A., and Elmes.)
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,750,311; Mar. 11.
Elwell, Braden L., Granite City, Ill. Molding apparatus. 1,750,217; Mar. 11.
Emerson, Clyne L., Oak Park, and P. E. Buettell, Maywood, Ill. Rail and wheel flange oiler. 1,749,876; Mar. 11.
Emmert, Rodger J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Soldering apparatus. 1,750,312; Mar. 11.
Emmert, Rodger J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Coating and drying apparatus. 1,750,313; Mar. 11.
Emmrich, Paul, assignor to R. C. von Loeben, Dresden, Germany. Hand and face drying device. 1,750,094; Mar. 11.
Enterprise Manufacturing Company, The. (See Pflueger, Charles T., assignor.)

Enright, Stephen P., Philadelphia, Pa. Flush valve. 1,749,911; Mar. 11.
Erban, Richard, Vienna, Austria. Frictional gearing. 1,750,167; Mar. 11.
Erban, Richard, Vienna, Austria. Friction gear. 1,750,168; Mar. 11.
Esau, Abraham, Jena, Germany. Generator of short electric waves. 1,750,000; Mar. 11.
Essex Rubber Company. (See Hoopes, Penrose R., assignor.)
Evans, Archibald D., and J. K. Lamoree, New Castle, assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa. Piling and packing apparatus. 1,750,396; Mar. 11.
Evans, James C. (See Toomey, R. E. S., and Evans.)
Evans, Walter E., Wolverhampton, England. Jacking of road vehicles. 1,750,584; Mar. 11.
Eve, Robert C., Atlanta, Ga. Ash receiver. 1,750,038; Mar. 11.
Ewald, Arno A., assignor to Romort Manufacturing Company, Oakfield, Wis. Liquid-spraying device. 1,750,512; Mar. 11.
Ewald, Bernhard K. F., Villingen, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y. Drum-controlled repeating perforator. 1,750,216; Mar. 11.
Ewig, Friedrich, Brunswick, Germany. Hold for dredgers. 1,750,095; Mar. 11.
Exolon Company, The. (See Hauman, Earl L., assignor.)
Failing, Otto C. (See Mason, A. B., and Failing.)
Fairchild Airplane Manufacturing Corporation. (See Johnson, Corydon M., assignor.)
Falk, Morris, Fitchburg, Mass. Key-cutting machine. 1,750,218; Mar. 11.
Faries Manufacturing Company. (See Bowen, Michael B., assignor.)
Farley, Otis N., Lynden, Wash. Steering device. 1,750,585; Mar. 11
Faulstich, Georg, Cassel, Germany. Russian boot. 1,750,397; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,677; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,678; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,679; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,680; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,681; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,682; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,683; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,684; Mar. 11.
Fauser, Gustave M., Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc. Rug or similar article. Des. 80,685; Mar. 11.
Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Mahlke, Paul, assignor.)
Feltes, Peter E., Kansas City, Mo. Grating. 1,750,039; Mar. 11.
Ferguson, Gale L., assignor, by mesne assignments, to Auto Prime Pump Company, Cleveland, Ohio. Pumping apparatus. 1,749,912; Mar. 11.
Fick, Beulah B., Baltimore, Md. Drapery hook. 1,750,513; Mar. 11.
Field, Arthur E. and U. G., Gray, and N. Harithas, Mechanic Falls, Me.; said Arthur E. Field and said U. G. Field assignors of one-sixth to N. Harithas. Automatic construction pick and dirt remover. 1,750,586; Mar. 11.
Field, Ulysses G. (See Field, Arthur E. and U. G., and Harithas.)
Fingerprint Machine Corporation. (See Glass, Charles F., assignor.)
Finley, Sam E., Atlanta, Ga. Surfacing roads. 1,750,096; Mar. 11.
Finley, Thomas M., St. Louis, Mo. Flying machine. 1,750,097; Mar. 11.
Fischer, Dezso. (See Kardos, J., and Fischer.)
Fischer, Ferdinand, Berlin, Germany. Offset printing machine. 1,750,587; Mar. 11.
Fischer, Herman. (See Kardos, J., and Fischer, assignors.)
Fischer, Otto. (See Goldberg, E., and Fischer.)
Fisher, Harry G., assignor to Delco-Light Company, Dayton, Ohio. Water system. 1,749,877; Mar. 11.
Fisher, Pius A., Kansas City, Mo. Portable power appliance. 1,749,806; Mar. 11.
Fits Gerald, Francis A. J., Niagara Falls, N. Y., and J. Kelleher, Chippawa, Ontario, Canada, assignors to Harper Electric Furnace Corporation. Tunnel kiln and operating the same. 1,749,762; Mar. 11.
Fleming, Wells S., Portland, Oreg. Drain fitting. 1,749,878; Mar. 11.
Fleisher, Walter L., assignor to The Cooling & Air Conditioning Corporation, New York, N. Y. Reducing temperature by dehydration. 1,749,763; Mar. 11.
Fleiter, Andrew J., Akron, H. C. Bostwick, Kenmore, and T. A. Miller, assignors to The Akron Standard Mold Company, Akron, Ohio. Horizontal vulcanizer. 1,750,464; Mar. 11.
Flink, John H., Watertown, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Wilmington, Del. Lasting jack. 1,750,169; Mar. 11.
Fluid Heat Company, The. (See Lalor, James D., assignor.)
Foley, Earl H., Seattle, Wash., assignor, by mesne assignments, of ninety-nine one-hundredths to International Acoustigraph Company. Sound-recording apparatus for use in educational motion-picture programs. 1,750,172; Mar. 11.
Fonnesbeck, Leon, Logan, Utah. Rotary plow. 1,750,219; Mar. 11.
Forchheimer, Milton, Newark, N. J. Car coupler. 1,750,314; Mar. 11.
Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Crank shaft. 1,749,807; Mar. 11.
Ford Instrument Company. (See Heller, Harley H., assignor.)
Ford Instrument Company. (See Tanner, Harry L., assignor.)
Ford, Louis E., Borger, Tex. Combined cigarette holder and ash receiver. Des. 80,686; Mar. 11.
Ford Motor Company. (See Ford, Henry, assignor.)
Forman, John, et al. (See Pucek, Felix, assignor.)
Forsberg, Erik A., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator. 1,749,764; Mar. 11.
Forsberg, Gustav A., assignor to Gulbransen Company, Chicago, Ill. Expression-control device. 1,750,261; Mar. 11.
Frambach, Mathew J., Hartley, Iowa. Nonskid device. 1,750,098; Mar. 11.
Francis, John L., Fort Worth, Tex. Train air and steam line coupler. 1,750,398; Mar. 11.
Franck, Edwin G., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich. Hoisting anchorage for car roofs. 1,749,973; Mar. 11.
Franks, Clem H., La Grange, and M. R. Olsen, Glen Ellyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for arranging articles. 1,750,315; Mar. 11.
Freed, Alfred, Chicago, Ill. Box. Des. 80,687; Mar. 11.
French, William A., assignor to Wm. A. French Furniture Co., Minneapolis, Minn. Bedstead frame. Des. 80,688; Mar. 11.
French, Wm. A., Furniture Co. (See French, William A., assignor.)
Frey, Karl, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Back-pressure turbine. 1,750,262; Mar. 11.
Fried. Krupp Aktiengesellschaft. (See Pfretzschner, Jakob, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schmücking, August, assignor.)
Fried. Krupp Germaniawerft Aktiengesellschaft. (See Herkt, Ernst, assignor.)
Friedrichs, Wilhelm, Berlin, Germany. Franking machine. 1,750,399; Mar. 11.
Frisch, August, St. Gallen, Switzerland. Pumping apparatus. 1,750,170; Mar. 11.
Fritts, Edwin C., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture apparatus. 1,750,220; Mar. 11.
Froesch, Charles, Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Vehicle frame construction. 1,750,221; Mar. 11.
Fuerst, Carl C., assignor to Eastman Kodak Company, Rochester, N. Y. Camera-lens carriage and track latch. 1,750,222; Mar. 11.
Fugier, Georges. (See Michelon, P., and Fugier.)
Fuller Lehigh Company. (See Jacobus, David S., assignor.)
Fulton, Robert R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Welding flux. 1,750,801; Mar. 11.
G & W Electric Specialty Co. (See Williams, Paul F., assignor.)
Gallagher, Arthur D., South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company. Cultivator. 1,749,974; Mar. 11.
Gammeter, John R., Akron, Ohio. Multiple heating or vulcanizing press. 1,750,263; Mar. 11.
Gardner-Denver Company, The. (See Nelson, Paul A., assignor.)
Garrigue, William, & Company. (See Sieck, William, jr., assignor.)
Garrison, J. E., et al. (See Johnston, Luther C., assignor.)
Garrow, Theodore A., Los Angeles, Calif. Spreader for mixing machines. 1,750,264; Mar. 11.
Gasparic, Thomas. (See Murray, Daniel J., assignor.)
Gates, Charles E., Sedgwick County, Kans. Hitch for mowing machines and the like. 1,750,514; Mar. 11.
Gault, Maceo, Taylor, Tex. Railway switch. 1,750,465; Mar. 11.
Gemex Company. (See Prestinari, Eugen, assignor.)
Gemex Company. (See Roy, Wiltrid J., assignor.)
General Aniline Works, Inc. (See Kränzlein, G., Kronholz, and Roemer, assignors.)

General Aniline Works, Inc. (See Mieg, W., and Heidentrich, assignors.)
General Aniline Works, Inc. (See Neelmeier, W., and Hentrich, assignors.)
General Aniline Works, Inc. (See Schirmacher, Karl and W., assignors.)
General Aniline Works, Inc. (See Stüsser, Richard, assignor.)
General Aniline Works, Inc. (See Voetter, Ernst, assignor.)
General Mill Equipment Company. (See Cornelius John W., assignor.)
General Motors Corporation. (See Blackmore, Lloyd, assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
General Motors Research Corporation. (See Summers, Caleb E., assignor.)
General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)
George, Harry H. (See Truett, V. S., and George.)
Geuder, Paeschke & Frey Company. (See Hois, Louis J., assignor.)
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Molded composition article. 1,750,302; Mar. 11.
Gibbs, Eugene U., and G. A. Jessop, York, Pa. Wicket gate for hydraulic turbines. 1,750,400; Mar. 11.
Gill Glass and Fixture Company. (See Aglow, Harry, assignor.)
Gilman, George H., Belmont, Mass. Material-handling apparatus. 1,750,316; Mar. 11.
Gilmore, Helen M., New York, N. Y. Fastener for women's apparel. 1,750,588; Mar. 11.
Glass, Charles F., Brooklyn, N. Y., assignor to Fingerprint Machine Corporation. Finger-print machine and method. 1,750,099; Mar. 11.
Glass, Charles F., Brooklyn, N. Y., assginor to Fingerprint Machine Corporation. Finger-print machine and method. 1,750,100; Mar. 11.
Goddard, Ray C., Wheaton, assignor to Combustioneer, Inc., Chicago, Ill. Transmission mechanism. 1,749,879; Mar. 11.
Godfrey, Joseph H., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Dual-control temperature regulation. 1,750,001; Mar. 11.
Goldberg, Emanuel, and O. Fischer, assignors to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Cinematograph camera with clockwork driving mechanism. 1,750,401; Mar. 11.
Goldschmidt, Th., A.-G. (See Schertel, L., and Lüty, assignors.)
Goldstone, Abraham M., Baltimore, Md. Candelabra. 1,750,171; Mar. 11.
Goodrich, B. F., Company, The. (See Mullin, Andrew B., assignor.)
Goodrich, Norris E., assignor, by mesne assignments, to Sanitarium Equipment Company, Battle Creek, Mich. Massaging machine. 1,750,303; Mar. 11.
Goodspeed Machine Company. (See Hall, Walter H., assignor.)
Goodyear Tire & Rubber Company, The. (See Carson, Clarence M., assignor.)
Goodyear Tire & Rubber Company, The. (See Hoenes, Herman J., assignor.)
Goodyear Tire & Rubber Company, The. (See Klaus, Fred R., assignor.)
Goodyear Tire & Rubber Company, The. (See State, Will C., assignor.)
Gordon, James C., Detroit, Mich. Apparatus for handling dough. 1,750,002; Mar. 11.
Gore, John T., Drexel Hill, Pa. Inclosure for automobiles. 1,750,040; Mar. 11.
Gorton, George, Machine Company. (See Henkes, Peter M., assignor.)
Goss, Byron C., Cleveland, Ohio, assignor to The Lake Erie Chemical Company. Gas-generating chemical. 1,750,101; Mar. 11.
Goudy, Carl F., Flushing, assignor to Pacent Radio Corporation, New York, N. Y. Phonograph pick-up. 1,750,304; Mar. 11.
Gover, Victor J., New Haven, Conn. Tension device. 1,750,515; Mar. 11.
Grammes, L. F., & Sons, Inc. (See Price, Charles S., assignor.)
Grant, Walton, and G. W. Limebaugh, Circleville, Ohio. Meat-sawing machine. 1,750,223; Mar. 11.
Gray, David E., assignor to Corning Glass Works, Corning, N. Y. Grading machine. 1,750,516; Mar. 11.
Gray, Edwin T., assignor to W. H. S. Lloyd Co., New York, N. Y. Wall panel. Des. 80,689; Mar. 11.
Gray, Edwin T., assignor to W. H. S. Lloyd Co., New York, N. Y. Wall panel. Des. 80,690; Mar. 11.
Gray, Thomas, Lyndon, Kans. Baling block. 1,750,466; Mar. 11.
Greene, Oscar H., San Jose, Calif. Poultry feed and water trough. 1,749,808; Mar. 11.
Greene, William H. H. (See Baier, John M., assignor.)
Greve, Edgar E., Bellevue, Pa. Drive bushing for rotary drilling machines. 1,749,809; Mar. 11.
Griffin, James H., and E. E. Tiers, Clay Center, Kans. Rotary snowplow. 1,749,810; Mar. 11.
Griscom Russell Company, The. (See Brown, Stanley, assignor.)
Grisham, Luther L., et al. (See Vandivort, Homer H., assignor.)
Grisham, Richard B., et al. (See Vandivort, Homer H., assignor.)
Groeck, Hans, and F. Jordan, assignors to Groeck Wasserveredlung G. m. b. H., Berlin, Germany. Method and apparatus for mixing flowing media in equal proportions. 1,749,811; Mar. 11.
Groeck Wasserveredlung G. m. b. H. (See Groeck, H., and Jordan, assignors.)
Groehn, Otto J., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Method and apparatus for shaping sheet-metal articles. 1,749,913; Mar. 11.
Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Automatic lathe control. 1,750,589; Mar. 11.
Groff, Joseph C., New York, N. Y. Fuel-supplying device. 1,749,975; Mar. 11.
Groh, Harold D., Toronto, Ontario, Canada. Circuit maker and breaker. 1,750,517; Mar. 11.
Gross, Joseph E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating material. 1,750,305; Mar. 11.
Grotheer, Lueder H., San Diego, Calif. Miniature steam cooking device. 1,750,265; Mar. 11.
Grube, Paul, Breslau, Germany. Pulverizing mountain-ash berries. 1,749,812; Mar. 11.
Gruman, Horace F., Richmond Heights, Mo., assignor to Lewis Invisible Stitch Machine Company, Kittery, Me. Sewing machine. 1,750,041; Mar. 11.
Guernsey, Charles O., Philadelphia, Pa. Muffler. 1,750,950; Mar. 11.
Guire, Henry G., and A. L. Chalfonte, Trenton, N. J. Mouth wiper. 1,750,402; Mar. 11.
Gulbransen Company. (See Forsberg, Gustav A., assignor.)
Gushard, Foster L. (See Smith, J. L., and Gushard.)
Haas, Hermann, Lennep, Germany. Drying apparatus. 1,750,003; Mar. 11.
Habenicht, Frederick K. (See Cooper, W. E., and Habenicht.)
Hackett, Daniel F. (See Pulford, John F., assignor.)
Hafermann, Alfred, Berlin-Lichtenrade, Germany. Closure for nonrefillable bottles. 1,750,591; Mar. 11.
Hafling, Eric V., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Pressing or molding means and method. 1,749,813; Mar. 11.
Hahnemann, Walter, Berlin-Marienfelde, assignor to C. Lorenz Aktiengeselschaft, Berlin-Tempelhof, Germany. Discharge-tube system. 1,750,102; Mar. 11.
Hall, Walter H., assignor to Goodspeed Machine Company, Winchendon, Mass. Double-cylinder planer. 1,749,938; Mar. 11.
Hamaker, Sidney U., assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Fodder cutter. 1,750,266; Mar. 11.
Hamilton, Frank S., Boston, Mass. Pyrotechnic article. 1,749,814; Mar. 11.
Hammerstein, Simeon, Rotterdam, Netherlands. Propelling mechanism for ships. 1,749,815; Mar. 11.
Hance, Lawrence W., Philadelphia, Pa. Twin valve for locomotives. 1,750,592; Mar. 11.
Hanovia Chemical and Manufacturing Company. (See Anderson, William T., jr., assignor.)
Hanovia Chemical and Manufacturing Company. (See Anderson, W. T., jr., and Bird, assignors.)
Hanovia Chemical and Manufacturing Company. (See Robinson, F. W., and Bird, assignors.)
Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Treating kraut. 1,750,467; Mar. 11.
Hardwicke-Etter Company. (See Streun, John A., assignor.)
Hardy, Peter. (See Thomson, J. M., and Hardy.)
Harithas, Nicolaus. (See Field, Arthur E. and U. G., and Harithas.)
Harper Electric Furnace Corporation. (See Fitzgerald, F. A. J., and Kelleher, assignors.)
Harris, Eliot H., assignor to B. M. Herr, Pittsburgh, Pa. Fractionating apparatus. 1,750,306; Mar. 11.
Harrison, Arthur P., Washington, D. C., assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del. Automatic fermentation apparatus. 1,750,267; Mar. 11.
Harvey, Harry E., and E. K. Holmes, assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio. Pedestal-bending machine. 1,750,103; Mar. 11.
Harwick, Henry K. (See Krauss, C. F., and Harwick.)
Haugan, Reidar, White Sulphur Springs, W. Va. Hydropneumatic glider. 1,750,593; Mar. 11.
Hauman, Earl L., Hamburg, N. Y., assignor to The Exolon Company, Blasdell, N. Y. Recovery of bonded materials. 1,750,174; Mar. 11.
Hauman, Earl L., St. Catherines, Ontario, Canada, assignor to The Exolon Company, Blasdell, N. Y. Method of and apparatus for treating refractory material. 1,750,468; Mar. 11.
Havelock, Edward W., and J. W. Cochrane, assignors to N. C. Havelock and L. M. Cochrane, Santa Rosa, Calif. Reversible car sign. 1,750,173; Mar. 11.
Havelock, Natalina C., et al. (See Havelock, E. W., and Cochrane, assignors.)

Hayes, Neil G., assignor of one-half to A. R. Auray, Bridgeport, Conn. Push-botton housing. 1,750,469; Mar. 11.
Heckler, Ernest A. (See Wood, R. F., and Heckler.)
Heidenreich, Audolf. (See Mieg, W., and Heidenreich.)
Heidenbrand, Arthur P., Three Sands, Okla. Steering knuckle. 1,750,518; Mar. 11.
Helios Corporation. (See Proksa, John, assignor.)
Heller, Harley H., Riverside, Conn., assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Insulation-removing process. 1,749,939; Mar. 11.
Hellesoe, Hans H., Chicago, Ill. Rubber-stamp assembly 1,750,004; Mar. 11.
Heltzel, John N., Warren, Ohio. Joint-filling machine. 1,750,104; Mar. 11.
Heltzel, John N., Warren, Ohio. Concrete joint. 1,750,105; Mar. 11.
Heltzel, John N., Warren, Ohio. Reenforcing-rod chair. 1,750,106; Mar. 11.
Heltzel, John N., Warren, Ohio. Joint-producing machine. 1,750,107; Mar. 11.
Hemmerich, Hugo, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Hosiery turning and inspecting form. 1,750,005; Mar. 11.
Hendrickson, John B., Philadelphia, Pa., assignor to Welding Engineers Incorporated. Apparatus for electric welding. 1,749,765; Mar. 11.
Hendrix, William B., Pacific Palisades, assignor of one-half to H. A. Hyde, Santa Monica, Calif. Steering mechanism. 1,749,816; Mar. 11.
Henkes, Peter M., assignor to George Gorton Machine Company, Racine, Wis. Engraving machine. 1,750,594; Mar. 11.
Henry, Gerald J., Boston, Mass. Electric-light fixture. 1,750,006; Mar. 11.
Hentrich, Winfrid. (See Neelmeier, W., and Hentrich.)
Herkt, Ernst, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Device for operating internal-combustion engines with an ignition chamber. 1,750,403; Mar. 11.
Herman, Louis, Brooklyn, N. Y. Doll. 1,750,404; Mar. 11.
Hermsdorf, Ewald, Brunswick, Germany. Apparatus for supplying powdered fuel to furnaces. 1,749,817; Mar. 11.
Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,749,880; Mar. 11.
Herr, Benjamin M. (See Harris, Eliot H., assignor.)
Hewitt, Ernest W. (See Rothermel, S. W., and Hewitt.)
Hicks, John K., El Paso, Tex. Adjustable riding-breeches leg. 1,750,595; Mar. 11.
Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bag frame. Des. 80,691; Mar. 11.
Hill, Jesse J., Independence, Kans. Well-shooting device. 1,750,405; Mar. 11.
Hill, Roger B., assignor to Brown Company, Berlin, N. H. Refining edible oils. 1,749,976; Mar. 11.
Hinton, Norman P., Timperley, England, assignor to Associated Electrical Industries Limited. Electron-discharge devices. 1,750,307; Mar. 11.
Hitchner, Joseph C., assignor to Hitchner Tire Corporation, Philadelphia, Pa. Tire. 1,749,766; Mar. 11.
Hitchner Tire Corporation. (See Hitchner, Joseph C., assignor.)
Hobé, William W., New York, N. Y. Button or similar article. Des. 80,692; Mar. 11.
Hoenes, Herman J., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold-cleaning machine. 1,750,470; Mar. 11.
Hof, Wilhelm, et al. (See Lüdorf, Gustav, assignor.)
Hois, Louis J., assignor to Geuder, Paeschke & Frey Company, Milwaukee, Wis. Steamer cooker. 1,750,596; Mar. 11.
Hojnowski, Jakob, Nekoosa, Wis. Helicopter aeroplane with a plurality of propellers. 1,750,108; Mar. 11.
Hollister, Edward E., assgnor to Hollister-Whitney Company, Quincy, Ill. Air-actuated lifting device. 1,750,597; Mar. 11.
Hollister-Whitney Company. (See Hollister, Edward E., assignor.)
Holmes, Earl K. (See Harvey, H. E., and Holmes.)
Holmes, Ernest, Company. (See Holmes, Ernest W., assignor.)
Holmes, Ernest, Company. (See Holmes, E. W., and Cline, assignors.)
Holmes, Ernest W., assignor to Ernest Holmes Company, Chattanooga, Tenn. Automobile jack. 1,750,598; Mar. 11.
Holmes, Ernest W., and E. E. Cline, assignors to Ernest Holmes Company, Chattanooga, Tenn. Steering-gear clamp for towed automobiles. 1,750,599; Mar. 11.
Holmes, Harold W., Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Truing device. 1,750,175; Mar. 11.
Holpfer, Marcus, Coraopolis, Pa. Luminous electric-light switch. 1,749,881; Mar. 11.
Hood Rubber Company. (See Flink, John H., assignor.)
Hoopes, Penrose R., Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J. Trimming machine. 1,749,882; Mar. 11.
Hoover, Alan C., Chicago, Ill. Machine for forming articles. 1,750,471; Mar. 11.
Hoover, Brooks B., Aurora, Ill. Garage door. 1,750,042; Mar. 11.
Hope, Charles S., assignor, by mesne assignments, to K. and J. D. Keating and B. E. Brunell, Springfield, Mass., and M. K. Quirk, Middletown, Conn. Flush valve. 1,750,317; Mar. 11.
Houghtaling Levi D., Reading, Pa. Door for silos. 1,750,600; Mar. 11.
Houghton, John M., et al. (See Houghton, Lewis T., assignor.)
Houghton, John M., et al., executors. (See Houghton, Lewis T.)
Houghton, Lewis T., deceased; J. M. Houghton and O. M. Lambert, executors, assignors to J. M. Houghton and O. M. Lambert, Worcester, Mass. Thread guide for spooling and winding machines. 1,749,940; Mar. 11.
Houseman, Harold E., Edge Moor, assignor to Standard-Trump Bros. Machine Company, Wilmington, Del. Knitting plated fabric. 1,750,007; Mar. 11.
Houseman, Harold E., Edge Moor, assignor to Standard-Trump Bros. Machine Company, Wilmington, Del. Process and machine for knitting plated fabric. 1,750,008; Mar. 11.
Howard, Charles L., Chicago, Ill. Car-coupler-operating device. 1,750,308; Mar. 11.
Howson, Charles T., assignor to W. M. Buchholtz and A. B. Chapman, Silver Creek, N. Y. Gas mixer. 1,749,914; Mar. 11.
Howson, Henry A., Osbaldeston, near Blackburn, England. Resilient wheel. 1,750,614; Mar. 11.
Hückinghaus, Wilhelm, Remscheid, Germany. Handsaw. 1,750,472; Mar. 11.
Hudson Motor Car Company. (See Groehn, Otto J., assignor.)
Hudson Motor Car Company. (See Romine, Robert T., assignor.)
Hudson Motor Car Company. (See Toncray, Millard H., assignor.)
Huguenin, Albert, Paris, France. Lubricating device. 1,749,941; Mar. 11.
Hughes, James W., assignor to Budd Wheel Company, Philadelphia, Pa. Method and apparatus for rolling tapered wheel disks. 1,750,176; Mar. 11.
Hunt, George, assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,749,818; Mar. 11.
Hunter, Campbell M., and H. P. Philpot, London, England. Burner. 1,749,942; Mar. 11.
Hutches, Benjamin F., jr., Allendale, N. J., assignor to Hutches Engineering Association, Inc., New York, N. Y. Parking clock. 1,749,977; Mar. 11.
Hutches Engineering Association, Inc. (See Hutches, Benjamin F., jr., assignor.)
Hutchins Car Roofing Company. (See Franck, Edwin G., assignor.)
Hutchinson, Lewis H., South Portland, Me. Picture-graph machine. 1,749,767; Mar. 11.
Hutchinson, William S., Scarsdale, N. Y., assignor to The Silica Gel Corporation, Baltimore, Md. Dry-charged battery plate. 1,749,819; Mar. 11.
Hyde, Howard A. (See Hendrix, William R., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schrauth, Walther, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Staib, Karl, assignor.)
Illinois Piston and Ring Company. (See Baker, William S., assignor.)
Illinois Watch Case Company. (See Wakefield, Frank E., assignor.)
Independent Pneumatic Tool Company. (See Levedahl, A., and Norling, assignors.)
Individual Drinking Cup Company. (See Carew, Herman, assignor.)
Industrial Gloves Corporation. (See Jensen, Karl E., assignor.)
Ingersoll-Rand Company. (See Lear, Earl B., assignor.)
Ingersoll-Rand Company. (See McAllister, Raymond C., assignor.)
Ingersoll-Rand Company. (See Tuttle, Grover G., assignor.)
Ingersoll-Rand Company. (See Zimmermann, William F., assignor.)
Inland Manufacturing Company, The. (See Chilton, Ralph H., assignor.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
Insinger Company, The. (See Kauffmann, Frederick F., assignor.)
International Acoustigraph Company. (See Foley, Earl H., assignor.)
International Business Machines Corporation. (See Peirce, John R., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Motor Company. (See Froesch, Charles, assignor.)
International Motor Company. (See McManus, Frank C., assignor.)
International Oxygen Company. (See McKay, William F., assignor.)
Isbell, John A., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Water-cooled plate-finishing machine. 1,750,406; Mar. 11.
Jacobus, David S., Jersey City, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Furnace wall. 1,749,768; Mar. 11.
Jade, Hans, San Francisco, Calif. Toy bridge. 1,750,519; Mar. 11.

Jaeger Machine Company, The. (See Tullis, Jasper G., assignor.)

Jaroseck, Joseph T., assignor of one-half to A. Oliver, Cleveland, Ohio. Lettering device. 1,750,209; Mar. 11.

Jennings, Oliver S., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay protective system. 1,750,268; Mar. 11.

Jensen, Karl E., assignor to Industrial Gloves Corporation, Chicago, Ill. Glove. 1,750,473; Mar. 11.

Jensen, Karl K., Piedmont, Calif. Electromagnetic sound reproducer. 1,750,009; Mar. 11.

Jessop, George A. (See Gibbs, E. U., and Jessop.)

Johnson, Corydon M., Farmingdale, assignor to Fairchild Airplane Manufacturing Corporation, New York, N. Y. Airplane-wing connection. 1,749,769; Mar. 11.

Johnson, Edwin. (See Klim, A. H., Johnson, Nelson, Belin, and Lundsten.)

Johnson, Erik W., assignor of one-half to L. A. Kamradt, Chicago, Ill. Mold and core for line-casting machines. 1,749,770; Mar. 11.

Johnson, Henry A., Northfield, Mass. Buoyant bathing device. 1,749,820; Mar. 11.

Johnson, Russell H. (See Szekely, O. E., and Johnson.)

Johnson-Stephens & Shinkle Shoe Company. (See Spalsbury, Charles B., assignor.)

Johnston, Frank B., Roselle Park, N. J. Cable scaffold. 1,750,269; Mar. 11.

Johnston, Luther C., Morganton, assignor of one-fourth to J. E. Garrison and one-fourth to J. Kjellander, Burke County, N. C. Cutter head. 1,750,474; Mar. 11.

Joiner, Sylvester L., McGregor, Tex. Reversible placard holder for tank cars. 1,749,943; Mar. 11.

Jones, David T., et al. (See Tallent, Joseph A., assignor.)

Jones, Elmer M., assignor to Parker Rust-Proof Company, Detroit, Mich. Coated iron and steel articles and making the same. 1,750,270; Mar. 11.

Jones, Heber K., and E. A. Chase, St. John, New Brunswick, Canada. Change-over signal for motion-picture machines. 1,750,520; Mar. 11.

Jones, James U., et al. (See Tallent, Joseph A., assignor.)

Jonkel, Frank F., Chicago, and H. W. Larson, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for arranging articles. 1,750,310; Mar. 11.

Jordan Franz. See Groeck, H., and Jordan.)

Judd, Irving H., Detroit, assignor to Whitehead and Kales Company, River Rouge, Mich. Apparatus for making wheel spiders. 1,750,521; Mar. 11.

Judd, Irving H., Detroit, assignor to Whitehead and Kales Company, River Rouge, Mich. Manufacturing wheel spiders. 1,750,522; Mar. 11.

Kaiser, John, Dobsina, Czechoslovakia. Cable-support insulator. 1,750,318; Mar. 11.

Kalo, Albert, assignor of one-half to J. D. Cox, Columbus, Ohio. Pipe coupling. 1,749,944; Mar. 11.

Kamradt, Leon A. (See Johnson, Erik W., assignor.)

Kaough, Joseph W., near Houston, Tex. Sectional wedge slip. 1,749,945; Mar. 11.

Kaough, Joseph W., near Houston, Tex. Wedge slip for rotaries. 1,749,946; Mar. 11.

Kardos, John, Perth Amboy, N. J., and D. Fischer, Jamaica, N. Y., assignors of one-fourth to H. Fischer, Perth Amboy, N. J. Life-saving device for sunken ships. 1,749,821; Mar. 11.

Kasan, Louis, New York, N. Y. Awning. 1,750,271; Mar. 11.

Kaschtofsky, Alois, Prague, Czechoslovakia. Nut-locking device. 1,750,523; Mar. 11.

Kauffmann, Frederick F., Camden, N. J., assignor to The Insinger Company, Philadelphia, Pa. Dish-sterilizing apparatus. 1,749,947; Mar. 11.

Kaufman, Henry J. (See Deans, W., and Kaufman.)

Kearney & Trecker Corporation. (See Trecker, T., and Armitage, assignors.)

Keating, John D., et al. (See Hope, Charles S., assignor.)

Keating, Katherine, et al. (See Hope, Charles S., assignor.)

Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Instrument panel. 1,750,601; Mar. 11.

Keith, William G., Chicago, Ill., assignor to Welsbach Traffic Signal Company, Philadelphia, Pa. Signal device. 1,750,319; Mar. 11.

Kelleher, James. (See Fitz Gerald, F. A. J., and Kelleher.)

Kenney Manufacturing Company. (See Smith, Walter E., assignor.)

Kenney, William J., Chicago, Ill. Combined filter and upflow water softener. Re17,621; Mar. 11.

Kerlow Steel Floor Company. (See Bunker, Herbert H., assignor.)

Kernin, Alfred G., assignor to Mosinee Paper Mills Company, Mosinee, Wis. Water heater. 1,750,475; Mar. 11.

Killing, Fritz, Cologne, Germany. Facilitating the tying and sealing of packages. 1,750,476; Mar. 11.

Kimmick, Charles J., jr., Rahway, N. J. Windshield wiper. 1,750,524; Mar. 11.

King, Clarence W., Shreveport, La. Floating harbor. 1,750,224; Mar. 11.

King, Fred C., Portland, Oreg. Making welded joints for steel pipe. 1,750,010; Mar. 11.

King, Walter S., Lakeland, Fla. Attaching shoe welts and outer soles. 1,750,225; Mar. 11.

Kinsie, Phillip A. (See McClellan, L. N., Kinsie, Savage, and Day.)

Kirby, Charles H., assignor to "Marvel Carbureter Company," Flint, Mich. Throttle-pump carbureter. 1,750,109; Mar. 11.

Kirby, Phillip S., Baron, Okla. Embroidery needle. 1,750,226; Mar. 11.

Kirk, William J., Wellsburg, W. Va. Dilator. 1,750,272; Mar. 11.

Kishpaugh, Hampton M., Courtland, Calif. Mold-form clamp. 1,750,525; Mar. 11.

Kjellander, Joe, et al. (See Johnston, Luther C., assignor.)

Kränzlein, Georg, Hochst-on-the-Main, E. Kronhols, Bad-Soden-on-the-Taunus, and F. Roemer, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Acid wool dyestuffs of the anthraquinone series. 1,750,227; Mar. 11.

Kränzlein, Georg, Frankfort-on-the-Main-Hochst, E. Kronhols, Bad-Soden-on-the-Taunus, and F. Römer, Frankfort-on-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Acid wool dyestuffs of the anthraquinone series. 1,750,228; Mar. 11.

Klasing, Augustus F., Chicago, Ill. Railway-car hand brake. 1,749,948; Mar. 11.

Klasing, Augustus F., Chicago, Ill. Winding mechanism. 1,749,949; Mar. 11.

Klasing, Augustus F., Chicago, Ill. Winding means. 1,749,950; Mar. 11.

Klaus, Fred R., Warren, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, Akron, Ohio. Demountable rim. 1,750,477; Mar. 11.

Klein, Paul, Budapest, Hungary, assignor, by mesne assignments, to American Anode, Inc. Immediate production of mechanically-unworked pure rubber sheets from latex. 1,750,177; Mar. 11.

Kleinschmidt, Emil. (See Türke, Johannes, assignor.)

Kress, Willard C., assignor to J. H. Williams & Co., Buffalo, N. Y. Chain-pipe wrench. 1,750,043; Mar. 11.

Klim, Alfred H., E. Johnson, A. Nelson, A. O. Belin, and A. L. Lundsten, Jamestown, N. Y. Window construction. 1,750,110; Mar. 11.

Kronhols, Erich. (See Kränzlein, G., Kronhols, and Roemer.)

Kneier, Joseph, assignor to The Vichek Tool Company, Cleveland, Ohio. Socket-wrench set. 1,750,011; Mar. 11.

Knight American Patents Company. (See Knight, Charles Y., assignor.)

Knight, Charles Y., Pasadena, Calif., assignor to Knight American Patents Company, Chicago, Ill. Metallic packing and method of construction. 1,750,320; Mar. 11.

Knight, Charles Y., Pasadena, Calif., assignor to Knight & Kilbourne Development Co., Chicago, Ill. Internal-combustion engine. 1,750,321; Mar. 11.

Knight & Kilbourne Development Co. (See Knight, Charles Y., assignor.)

Knox, Robert F., Atlanta, Ga. Roof flashing. 1,750,526; Mar. 11.

Knudsen, Carl H., New York, N. Y. Shaft mounting and coupling for engines and cooperative parts. 1,750,044; Mar. 11.

Koehler, Conrad R., Toronto, Ontario, Canada. Wheel. 1,750,478; Mar. 11.

Koehler, Frank G., St. Louis, Mo. Truck. 1,749,978; Mar. 11.

Koehring Company. (See Robb, John F., assignor.)

Koennecke, A. H., et al. (See MacDonald, Joel W., assignor.)

Koerber, John C., South Orange, N. J. Toy railway signaling system. 1,750,322; Mar. 11.

Köllmann, Adolf G. (See Matouch, Rudolf A. F., assignor.)

Kopp, Fritz, Ulm-on-the-Donau, Germany. Wheel. 1,750,407; Mar. 11.

Korn, Alex A., assignor to Morand Cushion Wheel Co., Chicago, Ill. Cushion wheel. 1,750,408; Mar. 11.

Kovac, Edward, jr., New York, N. Y. Chair construction. 1,750,409; Mar. 11.

Kovacs, Theodor, Hanover, Germany. Reservoir pen. 1,750,410; Mar. 11.

Krauss, Charles F., Ambler, and H. K. Harwick, Darby, Pa. Locomotive truck. 1,750,527; Mar. 11.

Krauth & Benninghofen. (See Krauth, Marie W., assignor.)

Krauth, Marie W., assignor to Krauth & Benninghofen, Hamilton, Ohio. Music stand. 1,750,278; Mar. 11.

Krebs, George A., assignor, by mesne assignments, to Plough, Inc., Memphis, Tenn. Article displaying and vending cabinet. 1,750,528; Mar. 11.

Küch, Karl, et al. (See Lüdorf, Gustav, assignor.)

Kyle, William D., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Insulator rack. 1,749,915; Mar. 11.

La Bauve, Duclise J., Lake Charles, La. Utility shear. 1,750,411; Mar. 11.

Lake Erie Chemical Company, The. (See Goss, Byron C., assignor.)

Lake, Harry F., Viroqua, Wis. Structural design for aircraft. 1,749,951; Mar. 11.

Lakeman, William R., Rochester, N. Y. Cleaning electrotype plates. 1,749,822; Mar. 11.

Lalanne, Louis, Marseille, France. Scuttle port and like tight closed window. 1,750,412; Mar. 11.

Lalor, James D., Baltimore, Md., assignor, by mesne assignments, to The Fluid Heat Company. Device for vaporizing liquids. 1,750,602; Mar. 11.

Lambert, Olive M., et al., executors. (See Houghton, Lewis T.)

Lambert, Olive M., et al. (See Houghton, Lewis T., assignor.)

Lamoree, James K. (See Evans, A. D., and Lamoree.)

Landis, Clifford H. (See Wallace, J. D., and Landis.)

Lane, Edwin G., assignor to Yellow Truck and Coach Manufacturing Company, Pontiac, Mich. Spring shackle. 1,750,603; Mar. 11.

Langstreth, Melon. (See Andrew, T. E., and Langstreth.)

Lanier, Edward H., Miami, Fla. Aeroplane. 1,750,529; Mar. 11.

La Paugh, Louie T., and E. C. Shea, Oakland, Calif. Combined eyedropper and eyewash cup. 1,750,580; Mar. 11.

Larson, Homer W. (See Jonkel, F. F., and Larson.)

Lasier, David R., assignor to Norton Lasier Company, Chicago, Ill. Door-holding means. 1,749,979; Mar. 11.

Lasier, Norton, Company. (See Lasier, David R., assignor.)

Lasmolles, Jean R. F. M., Nerac, France. Heat engine acting as a pump. 1,750,229; Mar. 11.

Laubenstein, Albert R., Ashland, Pa. Ventilator. 1,750,413; Mar. 11.

Lawson, John W., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,750,274; Mar. 11.

Lear, Earl B., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,750,323; Mar. 11.

Le Blond, R. R., Machine Tool Company, The. (See Groene, William F., assignor.)

Ledwinka, Joseph, assignor to Budd Wheel Company, Philadelphia, Pa. Rolling-mill driving system. 1,749,883; Mar. 11.

Legg, Joseph W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Deflecting system. 1,750,275; Mar. 11.

Leitner, Henry, London, England. Electric accumulator. 1,750,230; Mar. 11.

Lemming, John C. (See Valentine, A. H., and Lemming.)

Le Pere, John G., assignor to U. S. Manufacturing Corporation, Decatur, Ill. Corn popper. 1,749,916; Mar. 11.

Lerner, Jacob, Chicago, Ill. Gas-line valve. 1,750,012; Mar. 11.

Levedahl, Axel, and R. A. Norling, Aurora, assignors to Independent Pneumatic Tool Company, Chicago, Ill. Crank-case-venting means for pneumatic tools. 1,750,013; Mar. 11.

Levey, Herman, Brooklyn, N. Y. Shirt-display card. 1,749,771; Mar. 11.

Lewis, Harold R., assignor to Sprague-Sells Corporation, Hoopeston, Ill. Machine for treating tomatoes. 1,750,414; Mar. 11.

Lewis Invisible Stitch Machine Company. (See Gruman, Horace F., assignor.)

Lichtenstein, Edmund, assignor to the Firm: Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H., Berlin, Germany. Cutting device for transversely-cutting moving paper webs. 1,750,531; Mar. 11.

Lichtman, Louis, assignor to Chromeplate, Inc., New York, N. Y. Hanger for articles to be plated. 1,749,952; Mar. 11.

Lichtman, Louis, assignor to Chromeplate, Inc., New York, N. Y. Back or hanger for articles to be plated. 1,749,953; Mar. 11.

Lifschutz, Henry, Brooklyn, assignor to Elco Shoe Manufacturers, Inc., Brooklyn, N. Y. Arch insert. 1,750,479; Mar. 11.

Lifton, Samuel H., New York, N. Y. Leather composition. 1,750,281; Mar. 11.

Limebaugh, George W. (See Grant, W., and Limebaugh.)

Lindelöf, Hjalmar. (See Risberg, J. V. M., and Lindelöf.)

Lindskog, Segfrid J., Los Angeles, Calif. Cravat attachment. 1,750,232; Mar. 11.

Line Material Company. (See Kyle, William D., assignor.)

Liptak, Michael, St. Paul, Minn. Fire wall. 1,750,532; Mar. 11.

Lloyd, W. H. S. (See Gray, Edwin T., assignor.)

Lockwood Manufacturing Company. (See Chandonia, Elmer H., assignor.)

Loeser, Edward O., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Gauging instrument. 1,749,980; Mar. 11.

Lofgren, John, assignor to Raico Manufacturing Company, Chicago, Ill. Electric-current connection. 1,750,014; Mar. 11.

Long, Bernard, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Glass and method of producing it. 1,749,823; Mar. 11.

Long, John E., Multnomah, Oreg. Electric-circuit-control apparatus. 1,750,615; Mar. 11.

Lord, Hugh C., Erie, Pa. Bonding rubber and articles produced thereby. 1,749,824; Mar. 11.

Lorens, C., Aktiengesellschaft. (See Hahnemann, Walter, assignor.)

Lorens, Charles F., East Orange, N. J., assignor to Westinghouse Lamp Company. Contact-resistance lamp. 1,749,772; Mar. 11.

Loye, Donald P., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telegraph system. 1,749,825; Mar. 11.

Lubach, Walter, Berlin, Germany. Electric hygrometer. 1,749,826; Mar. 11.

Lucas, Samuel M., Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling track-circuit regulator. 1,750,233; Mar. 11.

Luce, Maude L. (See Sanders, Granison M., assignor.)

Lüdorf, Gustav, Barmen, assignor to A. Schulte, Velbert, Rhineland, K. Küch, Barmen, and W. Hof, Elberfeld, Germany. Take-up device for ribbon looms. 1,750,533; Mar. 11.

Luebbers, Herman E., Osmond, Nebr. Feed grinder. 1,749,954; Mar. 11.

Lu-Mi-Nus Signs, Inc. (See Wesley, Joseph A., assignor.)

Lundahl, Fred A., Moline, Ill. Switch-operating mechanism. 1,750,224; Mar. 11.

Lundsten, Andrew L. (See Klim, A. H., Johnson, Nelson, Berlin and Lundsten.)

Lüty, Willi. (See Schertel, L., and Lüty.)

Macao-Waisenmuhlen-Gesellschaft mit beschränkter Haftung. (See Brägard, Theodor, assignor.)

MacDonald, Joel W., assignor of 15 per cent to A. B. Prescott, 20 per cent to A. H. Koennecke, and 65 per cent to The Tactiphone Company, Houston, Tex. Audition and apparatus for practicing the same. 1,750,045; Mar. 11.

Mack, Patrick H., Bradford, assignor to Oil Well Supply Company, Pittsburgh, Pa. Letting-in tool. 1,749,827; Mar. 11.

Macleod, Donald K., San Francisco, Calif. Ventilating device. 1,750,176; Mar. 11.

MacPherson, Warren, Cambridge, and E. W. Dunbar, Hudson, assignors to Cambridge Rubber Company, Cambridge, Mass. Overshoe. 1,750,179; Mar. 11.

Magee Carpet Co., The. (See McCollum, Alfred F., assignor.)

Mahlke, Paul, Cologne-Nippes, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. High-tension cable. 1,750,111; Mar. 11.

Maier, Albert, assignor to Zahnradfabrik Aktiengesellschaft, Friedrichshafen, Germany. Gear. 1,749,828; Mar. 11.

Mannington Mills, Inc. (See Campbell, Nell L., assignor.)

Marbry, William K. (See Culmer, T. W., and Marbry.)

Mares, Joseph R., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio. Engine-lubrication means. 1,750,235; Mar. 11.

Marinsky, Isaac, Providence, R. I. Pocket for gloves and the like. 1,750,180; Mar. 11.

Marinsky, Isaac, Providence, R. I. Glove. 1,750,181; Mar. 11.

Marinsky, Isaac, Providence, R. I. Glove. 1,750,182; Mar. 11.

Marinsky, Isaac, Providence, R. I. Glove. 1,750,183; Mar. 11.

Marion Steam Shovel Company, The. (See Miley, Walter E., assignor.)

Mark, Ovid E., San Diego, Calif. Gear-shifting mechanism for power transmissions. 1,750,236; Mar. 11.

Marsh, Gail G., Butte, Mont. Footrest for stopping drills. 1,750,415; Mar. 11.

Marsh, Louis S., assignor to Boeing Airplane Company, Seattle, Wash. Gun-feeding mechanism. 1,750,112; Mar. 11.

Marshall Field & Company. (See Nelson, Daniel, assignor.)

Martin, Arthur, Pittsburgh, assignor to Budd Wheel Company, Philadelphia, Pa. Rolling mill for tapered disks. 1,750,480; Mar. 11.

Martin, Charles A., Chicago, Ill. Control system. 1,750,481; Mar. 11.

Martin, George C., Los Angeles, Calif. Forming slabs. 1,750,113; Mar. 11.

Martindale, Charles A. (See Bradshaw, S. S., and Martindale.)

Martin-Parry Corporation. (See Mayes, Walter A., assignor.)

"Marvel Carbureter Company." (See Kirby, Charles H., assignor.)

Maschinenfabrik Oerlikon. (See Egg, Hartmann, assignor.)

Mason, Arthur C., Hawthorne, N. J. Cloth-shearing machine. 1,749,829; Mar. 11.

Mason, Arthur R., Medford, Oreg. Positive position-timing clutch. 1,750,115; Mar. 11.

Mason, Arthur R., and O. C. Failing, Medford, Oreg., assignors to Accurate Gasoline Recording Company. Variable-speed mechanism. 1,750,114; Mar. 11.

Matchett, George H., Cleveland, Ohio. Vending machine. 1,749,773; Mar. 11.

Matouch, Rudolf A. F., Leipzig, assignor to Adolf G. Köllmann, Leipzig-Gehlis, Saxony, Germany. Mercury-vapor lamp for alternating currents. 1,750,482; Mar. 11.

Matthews, Fred T., Brisbane, Australia. Fire extinguisher. 1,750,184; Mar. 11.

Mayer, Philip, San Diego, Calif. Slow-speed alternating-current motor mechanism. 1,750,237; Mar. 11.

Mayer, William G., Pittsburgh, Pa. Vehicle top structure. 1,749,884; Mar. 11.

Mayes, Walter A., assignor to Martin-Parry Corporation, York, Pa. Sealing strip for bottom of vehicle bodies. 1,750,416; Mar. 11.

McAllister, Raymond C., Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor unloader. 1,750,276; Mar. 11.

McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Sheet-making apparatus. 1,750,534; Mar. 11.

McClellan, Leslie N., P. A. Kinzie, J. L. Savage, and C. M. Day, Denver, Colo. Pressure-actuated control valve. 1,750,417; Mar. 11.
McCollum, Alfred F., assignor to The Magee Carpet Co., Bloomsburg, Pa. Mechanical means for severing or trimming the edges of carpets. 1,750,535; Mar. 11.
McCoy, Philip W., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Burner for natural gas. 1,750,616; Mar. 11.
McDonald, Albert B., Vernon, Tex. Cotton-boll picker. 1,750,536; Mar. 11.
McFarland, James C., Fort Thomas, assignor to The Wadsworth Watch Case Co., Dayton, Ky. Etching and decorating metal surfaces. 1,750,418; Mar. 11.
McGeehan, Charles A., Morristown, and P. X. McGeehan, Hasleton, Pa. Filtering device. 1,750,185; Mar. 11.
McGeehan, Patrick X. (See McGeehan, Charles A. and P. X.)
McIlvaine, Oran T., assignor to The Radio Television Company, East Cleveland, Ohio. Thermionic tube. 1,750,238; Mar. 11.
McKay, William F., Newark, N. J., assignor to International Oxygen Company. Valve. 1,749,774; Mar. 11.
McLennan, Major, McCamey, Tex. Amusement device. 1,749,918; Mar. 11.
McManus, Frank C., Brooklyn, assignor to International Motor Company, New York, N. Y. Flexible closure for tractor-trailer vehicles. 1,750,186; Mar. 11.
Meadowcroft, Joseph W., assignor to Budd Wheel Company, Philadelphia, Pa. Welding wheel parts. 1,749,917; Mar. 11.
Melling, George, Jackson, Miss. Combined milling and drilling machine. 1,750,046; Mar. 11.
Mergenthaler Linotype Company. (See Pierson, Edwin W., assignor.)
Mergott, J. E., Co. (See Hiering, William C., assignor.)
Mertz, Albert A. (See Mumberg, William F., assignor.)
Meszaros, Bela, New York, N. Y. Suspenders for overalls. 1,750,015; Mar. 11.
Metal Door & Trim Co. (See Pearson, John P., assignor.)
Metal Office Furniture Co. (See Wege, Peter M., assignor.)
Metz, Frederick J., New York, N. Y. Galley clamp. 1,750,324; Mar. 11.
Metzger, Gustave A., Belleville, Ill. Air-cooling apparatus. 1,750,047; Mar. 11.
Meyer, Christian F., assignor to Textile Machine Works, Wyomissing, Pa. Centrifugal machine. 1,750,016; Mar. 11.
Meyer, Christian F., and G. Bitzer, assignors to Textile Machine Works, Wyomissing, Pa. Shock-absorbing carrier-rod stop mechanism for full-fashioned knitting machines. 1,750,017; Mar. 11.
Meyer-Jagenberg, Günther, Dusseldorf, Germany. Cigarette-packing machine. 1,750,018; Mar. 11.
Mexican American Hat Company. (See Treiman, Morris, assignor.)
Miag Muhlenbau und Industrie Aktiengesellschaft. (See Schaefer, Josef, assignor.)
Michelin, André J., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Vehicle wheel. 1,750,483; Mar. 11.
Michelin et Cie. (See Michelin, André J., assignor.)
Michelon, Pierre, Valence, and G. Fugier, Bourg-les-Valence, France. Egg cutter. 1,750,484; Mar. 11.
Midwest Metal Products Company. (See Smith, E. F., and Wilson, assignors.)
Mieg, Walter, Opladen, and R. Heidenreich, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. New condensation product of the perimidone series. 1,749,955; Mar. 11.
Mierley, Ida B. (See Mierley, Ira C., assignor.)
Mierley, Ira C., assignor to I. B. Mierley, Denver, Colo. Operating curette. 1,749,919; Mar. 11.
Miles, Raymond C., et al. (See Vandivort, Homer H., assignor.)
Miley, Walter E., assignor to The Marion Steam Shovel Company, Marion, Ohio. Teeth for excavating dippers and the like. 1,750,116; Mar. 11.
Millar, Thomas L. M., Hamilton, New Zealand. Automatic electric-circuit-controlling device. 1,749,775; Mar. 11.
Miller, Henry C., Waterford, N. Y. Centralizer for sewing machines. 1,749,956; Mar. 11.
Miller, Jerome J., and W. Platt, Chadron, Nebr. Power coaster. 1,750,187; Mar. 11.
Miller, Theodore A. (See Fleiter, A. J., Bostwick, and Miller.)
Mills, Bert E., Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill. Adjustable tremolo device. 1,750,325; Mar. 11.
Mills Novelty Company. (See Mills, Bert E., assignor.)
Mills, Thomas H., Providence, R. I. Coffee-urn device. 1,750,239; Mar. 11.
Modave, André, Brussels, assignor of fifty per cent to Ateliers Hanrez Societe Anonyme, Monceau sur Sambre, Belgium. Apparatus for removing dust from gases. 1,749,920; Mar. 11.
Mojonnier Bros. Co. (See Mojonnier, J. J., Phillips, and Clarke, assignors.)
Mojonnier, Julius J., and H. R. Phillips, Oak Park, and H. J. Clarke, Chicago, Ill., assignors to Mojonnier Bros. Co. Capping mechanism. 1,750,419; Mar. 11.
Monarch Machine Tool Company, The. (See Whipp, Wendell E., assignor.)
Monroe Calculating Machine Company. (See Britten, Edwin F., jr., assignor.)
Montgomery, Gustavus A., Dallas, Tex. Making drill stems. 1,749,981; Mar. 11.
Moore, Francis J., Minneapolis, Minn. Roof flashing and jacket. 1,750,019; Mar. 11.
Moorman, Charles L., Chicago, Ill. Lift truck. 1,750,277; Mar. 11.
Moraine Products Company, The. (See Valentine, A. H., and Lemming, assignors.)
Morand Cushion Wheel Co. (See Korn, Alex A., assignor.)
Morris, William L., Chicago, Ill. Grease feeder. 1,749,830; Mar. 11.
Morrow, S. Grover, trustee. (See Toomey, R. E. S., and Evans, assignors.)
Morton, Allen W., assignor to The American Hammered Piston Ring Company, Baltimore, Md. Piston ring. 1,749,831; Mar. 11.
Morton, Allen W., assignor to The American Hammered Piston Ring Company, Baltimore, Md. Piston ring. 1,749,832; Mar. 11.
Mosinee Paper Mills Company. (See Kernin, Alfred G., assignor.)
Moyer, Howard R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite gear. 1,750,278; Mar. 11.
Mueller, Charles C., jr., and D. C. Wendel, Newark, N. J. Sign. 1,750,118; Mar. 11.
Muhlenberg, Francis B., Upper Darby, Pa. Treatment of petroleum products. 1,750,420; Mar. 11.
Müller, Adolf, Munich, Germany, assignor to S. Neuman, Zurich, Switzerland. Producing gum from locust beans. 1,749,833; Mar. 11.
Muller, Gustav, jr., Jacksonville, Fla. Compound faucet. 1,750,485; Mar. 11.
Müller, Paul, Solingen, Germany. Protective holder. 1,750,119; Mar. 11.
Mullin, Andrew B., Kenmore, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for coating defined areas of fabric elements. 1,749,921; Mar. 11.
Mumberg, William F., Chicago, assignor of one-half to A. A. Mertz, Decatur, Ill. Support. 1,750,188; Mar. 11.
Murray, Daniel J., assignor of one-half to T. Gasparic, Chicago, Ill. Valve-operating mechanism. 1,750,537; Mar. 11.
Myer, Albert P., assignor to Simplex Heat Regulator Company, Minneapolis, Minn. Alternating-current motor. 1,750,240; Mar. 11.
Myers, John R., Elizabeth, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,749,834; Mar. 11.
Myers, L. A., Jr., Inc. (See Myers, William L., assignor.)
Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,749,835; Mar. 11.
Myers, William L., assignor to L. A. Myers Jr., Inc., Newark, N. J. Buckle. Des. 80,693; Mar. 11.
Nabb, James W., Newark, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,749,885; Mar. 11.
Nairn, James S., Wardie, Edinburgh, Scotland. Cinematograph projection apparatus. 1,750,020; Mar. 11.
Nash, Benjamin S., Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio. Textile fabric or similar article. Des. 80,694; Mar. 11.
National Air Brake Service, Inc. (See Ricketts, James R., assignor.)
National Cash Register Company, The. (See Shipley, Bernis M., assignor.)
National Standard Company. (See Alderfer, Sterling W., assignor.)
Neelmeier, Wilhelm, Leverkusen, and W. Hentrich, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs derived from amino-acylamino-salicyl-diphenylsulphones. 1,749,836; Mar. 11.
Nelson, Arthur. (See Klim, A. H., Johnson, Nelson, Belin, and Lundsten.)
Nelson, Daniel, Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Staple and hasp construction. 1,749,983; Mar. 11.
Nelson, Paul A., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Drill sharpener. 1,749,957; Mar. 11.
Nesbitt, James W., Grosse Pointe Park, Mich. Burnishing machine. 1,749,982; Mar. 11.
Neubert, August, assignor to the firm of Nollesche Werke Kommandit Gesellschaft, Weissenfels-on-the-Saale, Germany. Pulling-over machine. 1,750,421; Mar. 11.
Neuman, Sigismund. (See Müller, Adolf, assignor.)
New Idea Spreader Company, The. (See Synck, Henry, assignor.)
Nickell, Arthur C., jr., Waukesha, Wis. Gear shift. 1,749,837; Mar. 11.
Niles, Eliot W., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Selective system. 1,749,838; Mar. 11.
Noel, William A., Washington, D. C. Auxiliary draft attachment. 1,749,839; Mar. 11.
Nogueira, Luis V., Dallas, Tex. Wheel-rim-locking bolt. 1,749,984; Mar. 11.
Nolder, Francis M., Westboro, Ohio. Combination caliper and divider. 1,750,486; Mar. 11.

CARNEGIE LIBRARY OF ATLANTA

Nollesche Werke Kommandit Gesellschaft. (See Neubert, August, assignor.)
Nonneman, Ira W., assignor to Borden Company, Warren, Ohio. Diestock. 1,750,241; Mar. 11.
Nordstrom, Gustaf E., assignor to American Fibre Corportation, Gardner, Mass. Loom for weaving fiber reed. 1,749,840; Mar. 11.
Norling, Reinhold A. (See Levedahl, A., and Norling.)
Norris, Rupert B., Tulsa, assignor to W. C. Norris, Tulsa County, Okla. Oil-well pumping jack. 1,750,021; Mar. 11.
Norris, W. C. (See Norris, Rupert B., assignor.)
North East Appliance Corporation. (See Dorsey, Farnum F., assignor.)
North East Appliance Corporation. (See Wallis, Cyril T., assignor.)
Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Stop-light switch. 1,750,279; Mar. 11.
Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,750,280; Mar. 11.
Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Lock switch. 1,750,538; Mar. 11.
Noyes, Bradford, jr., assignor to Taylor Instrument Companies, Rochester, N. Y. Thermometer. 1,750,422; Mar. 11.
Nunemacher, Arthur H., San Francisco, Calif. Serpentine projector. 1,750,120; Mar. 11.
Nuway Electric Company. (See Zamboni, Frank J., assignor.)
Nygaard, Oscar, Saugus, Mass. Water-cooled furnace wall. 1,750,048; Mar. 11.
Nyman, Alexander, Dobbs Ferry, assignor to Dubilier Condenser Corporation, New York, N. Y. Indicating device for high-frequency currents. 1,750,326; Mar. 11.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Voice-operated relay equipment. 1,749,841; Mar. 11.
O'Brien, Elmer W., et al. (See Pavelsky, Thomas R., assignor.)
Oglesby, Anna A., administratrix. (See Oglesby, Walter S.)
Oglesby, Walter S., deceased, New York, N. Y.; A. A. Oglesby, administratrix. Casement-window latch. 1,750,423; Mar. 11.
O'Hara, John B., assignor to Dr. Pepper Company, Dallas, Tex. Bottle. Des. 80,695; Mar. 11.
Ohio Cultivator Company, The. (See Rollman, Bruce, assignor.)
Ohio Match Company, The. (See Parker, Lucian E., assignor.)
Ohmer Fare Register Company. (See Tingley, Bruce H., assignor.)
Oil Well Supply Company. (See Mack, Patrick H., assignor.)
Okuura, Wasaburo, Muko-Gun, Japan. Paper-reeling machine. 1,750,487; Mar. 11.
O'Lena, Louis A., Brooklyn, N. Y. Ham bag. 1,749,776; Mar. 11.
Oliver, Arthur. (See Janosek, Joseph T., assignor.)
Oliver Farm Equipment Company. (See Altgelt, Herman E., assignor.)
Oliver Farm Equipment Company. (See Gallagher, Arthur D., assignor.)
Olsen, Marvin R. (See Franks, C. H., and Olsen.)
Olsen, Marvin R., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for arranging articles. 1,750,327; Mar. 11.
Olson, Nels L., Highland Park, Mich., assignor to American Rubber Products Corporation. Molding apparatus. 1,750,424; Mar. 11.
Ostrolenk, Samuel, Pittsburgh, Pa., assignor to Westinghouse Electric & Mfg. Company. Remote metering system. 1,750,242; Mar. 11.
Oswald, Alfred E., Hackensack, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Electric motor. 1,750,122; Mar. 11.
Otis Manufacturing Co. (See Strausser, Herbert S., assignor.)
Ottinger, Leon, New York, N. Y. Tool. 1,750,121; Mar. 11.
Otto, Marius P. (See Crespi, E., and Otto.)
Pacent Radio Corporation. (See Goudy, Carl F., assignor.)
Pacific Pumping Co. (See Ruxton, George T., assignor.)
Palmer, Ernest E., assignor to Toronto Type Foundry Company Limited, Toronto, Ontario, Canada. Manifolding book. 1,750,189; Mar. 11.
Palmer, John E., assignor to The Summit Mold & Machine Company, Akron, Ohio. Collapsible tire-building form. 1,749,886; Mar. 11.
Palmer, John E., assignor to The Summit Mold & Machine Company, Akron, Ohio. Collapsible tire-building form. 1,749,922; Mar. 11.
Paradise, Louis A., assignor to Deere & Company, Moline, Ill. Harvester binder. 1,749,777; Mar. 11.
Parker, Joseph, Cowdenbeath, Scotland. Endless conveyer or elevator. 1,750,425; Mar. 11.
Parker, Lucian E., assignor to The Ohio Match Company, Wadsworth, Ohio. Machine for assembling book matches. 1,750,281; Mar. 11.
Parker Rust-Proof Company. (See Jones, Elmer M., assignor.)
Parsons, Ethel M., New York, N. Y., assignor to The Stearns & Foster Company, Lockland, Ohio. Textile fabric or similar article. Des. 80,696; Mar. 11.
Partridge, Harry E., Finchfield, Wolverhampton, assignor of one-half to J. Thompson (Dudley) Limited, Dudley, England. Conveyer. 1,750,426; Mar. 11.
Pasche, Auguste E., New York, N. Y. Phonograph stylus and sound box. 1,750,351; Mar. 11.
Patchen, Robert H., Chicago, and G. L. Rock, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for arranging and magazining articles. 1,750,328; Mar. 11.
Patchen, Robert H., Chicago, and G. L. Rock, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for arranging articles. 1,750,329; Mar. 11.
Paterson, John C. (See Baker, G. R., Dumbleton, and Paterson.)
Patrick, Joseph C., Kansas City, Mo. Refining used oil. 1,750,350; Mar. 11.
Paul, John B., Pittsburgh, Pa. Flush tank. 1,750,427; Mar. 11.
Paulson, Rudolph H., Colfax, Wis. Recording machine. 1,750,539; Mar. 11.
Pavelsky, Thomas R., assignor of one-fourth to J. Collins, one-fourth to F. J. Binsack, and one-fourth to E. W. O'Brien, Rochester, N. Y. Combination traffic signal and booth therefor. 1,750,190; Mar. 11.
Peacock, David W. K. (See Wood, Harry L., assignor.)
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Mower. 1,750,049; Mar. 11.
Pearson, John P., assignor to Metal Door & Trim Co., La Porte, Ind. Metallic door structure or the like. 1,750,428; Mar. 11.
Pearson, Paul E. (See Troyer, N., and Pearson.)
Peelle Company, The. (See Peelle, Robert S., assignor.)
Peelle, Robert S., New York, assignor to The Peelle Company, Brooklyn, N. Y. Warehouse door. 1,749,985; Mar. 11.
Peirce, John R., assignor to International Business Machines Corporation, New York, N. Y. Perforated-card-controlled machine. 1,750,191; Mar. 11.
Pendergast, Overton W., Terre Haute, Ind. Tag. 1,750,192; Mar. 11.
Pepper, Dr., Company. (See O'Hara, John B., assignor.)
Perfection Ice Scoring Machine Company, The. (See Roark, Robert H., assignor.)
Perkins Cementing, Inc. (See Wickersham, Newton W., assignor.)
Pernek, Thomas, sr., Hartford, Conn. Automatic alarm signal. 1,750,488; Mar. 11.
Perrigo, Howard A. (See Rida, W. A., and Perrigo.)
Pestalozza, Ugo, assignor to Societa Italiana Pirelli, Milan, Italy. Manufacture of rubber. 1,750,540; Mar. 11.
Peter, Leslie H., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for rectifying alternating electric currents. 1,750,123; Mar. 11.
Petrelli, Joseph V., New Rochelle, N. Y. Register lock. 1,749,778; Mar. 11.
Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fish lure. 1,750,604; Mar. 11.
Pfueger, Joseph E., assignor to The Enterprise Manufacturing Co., Akron, Ohio. Combined hook and weed guard. 1,750,243; Mar. 11.
Pfretzschner, Jakob, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Electromagnetic controlling apparatus. 1,749,842; Mar. 11.
Phillips, John F., New York, N. Y. Electric insulator. 1,750,352; Mar. 11.
Phillips, Harley R. (See Mojonnier, J. J., Phillips, and Clarke.)
Philpot, Harold P. (See Hunter, C. M., and Philpot.)
Pick-Barth, Albert, Company. (See Pick, Hugo, assignor.)
Pick, Hugo, Winnetka, assignor, by mesne assignments, to Albert Pick-Barth Company, Chicago, Ill. Blotter. 1,750,022; Mar. 11.
Pierce, George W., Cambridge, Mass. Vibratory system and method. 1,750,124; Mar. 11.
Pierson, Edwin W., Newark, N. J., assignor to Mergenthaler Linotype Company. Slug-casting machine. 1,750,353; Mar. 11.
Pippin, John W., Hebbronville, Tex. Device for separating water from oil. 1,750,489; Mar. 11.
Pippin, John W., Hebbronville, Tex. Device for separating water from oil. 1,750,490; Mar. 11.
Platt, William. (See Miller, J. J., and Platt.)
Plough, Inc. (See Krebs, George A., assignor.)
Plumb, Walter. (See Coyle, J., and Plumb.)
Pogue, Charles N., Winnipeg, Manitoba, assignor to A. J. Andrews, trustee, Winnipeg, Canada. Carburetor. 1,750,354; Mar. 11.
Pope, Arthur W., jr., assignor to Waukesha Motor Company, Waukesha, Wis. Piston. 1,750,429; Mar. 11.
Popescu, Marin, Bucharest, Rumania. Life preserver. 1,750,282; Mar. 11.
Pott, Rainer H., Dresden, assignor to Chemische Fabrik Pott & Co., Dresden-N, Germany. Treating crude fibers and textile fabrics. 1,750,430; Mar. 11.
Potter, Rossiter R. (See Russell, S. G., Buchanan, and Potter.)

Precision Machine Co., The. (See Dina, Augusto, assignor.)
Prescott, A. B., et al. (See MacDonald, Joel W., assignor.)
Prescott, Frank H., assignor to Delco-Remy Corporation, Anderson, Ind. Engine-starting apparatus. 1,750,283; Mar. 11.
Prestinari, Eugen, Irvington, assignor to Gemex Company, Newark, N. J. Bracelet strap. 1,750,125; Mar. 11.
Preston, William A., Brisbane, Queensland, Australia. Air-blast cotton picker. 1,750,541; Mar. 11.
Price, Charles S., Bethlehem, assignor to L. F. Grammes & Sons, Inc., Allentown, Pa. Emblem holder. 1,750,605; Mar. 11.
Prigan, Ernest W., Camp Baldy, assignor to A. L. Shepard, Los Angeles, Calif. Automatic chuck. 1,750,023; Mar. 11.
Prokss, John, assignor to Helios Corporation, Chicago, Ill. Motion-picture apparatus. 1,749,779; Mar. 11.
Pucek, Felix, assignor of one-third to F. Diblick and one-third to J. Forman, Chicago, Ill. Lock and key structure. 1,750,542; Mar. 11.
Pulford, John F., assignor of one-half to D. F. Hackett, Boise, Idaho. Pressure head. 1,750,543; Mar. 11.
Punte, William F. (See Anlbach, C. J., and Punte.)
Pursel, Harold M., assignor to Sharrock and Pursel, Casper, Wyo. Power-operated scraper. 1,750,126; Mar. 11.
Putnam, Herbert N., Lakewood, Ohio. Wall conduit. 1,750,491; Mar. 11.
Quigley, Edward J., Newark, N. J. Dress shirt. 1,749,887; Mar. 11.
Quirk, Mary K., et al. (See Hope, Charles S., assignor.)
Radio Patents Corporation. (See Schmierer, Johannes M., assignor.)
Radio Television Company, The. (See McIlvaine, Oran T., assignor.)
Ragoucy, Alexis C., Bourgoin, France. Construction of furnace or oven arches. 1,750,355; Mar. 11.
Ragsdale, William H., Silver Spring, Md. Piston and rings. 1,750,356; Mar. 11.
Rail Joint Company, The. (See Thomson, William P., assignor.)
Raico Manufacturing Company. (See Lofgren, John, assignor.)
Ralston, Hurley D., Oak Park, assignor of forty per cent to R. J. Blum, River Forest, Ill. Electrical element. 1,750,492; Mar. 11.
Ramdor, Leopold, Falkensee, Berlin, Germany. Strip-feeding mechanism. 1,750,357; Mar. 11.
Randall Company, The. (See Randall, Howard D., assignor.)
Randall, Howard D., assignor to The Randall Company, Cincinnati, Ohio. Welding machine. 1,750,050; Mar. 11.
Randell, Ralph R., Washington, D. C. Floating station. 1,749,958; Mar. 11.
Read, Harold J., San Diego, Calif. Airplane. 1,749,959; Mar. 11.
Reardon Company, The. (See Reardon, Joseph V., assignor.)
Reardon, Joseph V., assignor to The Reardon Company, St. Louis, Mo. Coating composition. 1,749,923; Mar. 11.
Rector, Joseph M. (See Walsh, George L., assignor.)
Reeder, Elizabeth G., Chicago, Ill. Hammock. 1,749,888; Mar. 11.
Reid, Edward C., Philadelphia, Pa. Differential transmission mechanism. 1,749,889; Mar. 11.
Reid, Thomas E., Concord, N. C., assignor to Draper Corporation, Hopedale, Mass. Driving-rod connection for loom let-off mechanism. 1,750,606; Mar. 11.
Reutschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Incandescent cathode device. 1,749,780; Mar. 11.
Reshaw, George O., Los Angeles, Calif. Basket. 1,750,117; Mar. 11.
Reynolds, Terry T., North Uvalde, Tex. Fish-weighing scale for fishing rods. 1,750,193; Mar. 11.
Richard, Pierre A., assignor to La Société du Film en Couleurs Keller-Dorian, Paris, France. Color photography. 1,750,358; Mar. 11.
Ricketts, James B., Richmond, Calif., assignor to National Air Brake Service, Inc., Reno, Nev. Triple-valve-lapping machine. 1,749,890; Mar. 11.
Rida, Walter A., West Haven, and H. A. Perrigo, Whitneyville, Conn. Road sign. 1,750,330; Mar. 11.
Risberg, Johannes V. M., and H. Lindelöf, Södertelje, Sweden, said Lindelöf assignor to said Risberg. Pulsator valve. 1,750,359; Mar. 11.
Rives, Logan, Los Angeles, Calif. Wind instrument. 1,750,051; Mar. 11.
Roark, Robert H., assignor to The Perfection Ice Scoring Machine Company, Waco, Tex. Ice-delivery device. 1,749,843; Mar. 11.
Robb, John F., Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis. Machine for making uniform concrete. 1,750,244; Mar. 11.
Roberts, James R., Lincoln, Nebr. Silo. 1,750,052; Mar. 11.
Roberts, Leland C., Towaco, N. J., assignor to American Telephone and Telegraph Company. System for furnishing intermittent telegraph service. 1,749,844; Mar. 11.
Robinson, Frederic W., and L. F. Bird, assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J. Ultra-violet-light-generating system. 1,750,024; Mar. 11.
Robinson, Joseph, New York, N. Y. Automatic train-pipe coupling. 1,749,845; Mar. 11.
Robinson, Walter W., Beloit, Wis. Holder for thermionic tubes. 1,750,053; Mar. 11.
Rock, George L. (See Patchen, R. H., and Rock.)
Rockwell, Hugh M., New Haven, Conn. Piston for internal-combustion engines. 1,750,127; Mar. 11.
Roemer, Fritz. (See Kränslein, G., Kronbols, and Roemer.)
Rogers, Arthur R., Jonesport, Me. Fish-cutting machine. 1,750,431; Mar. 11.
Rogers, Harry R., Chicago, Ill. Foot support. 1,750,360; Mar. 11.
Rogers Products Co. (See Zabriskie, Charles L., assignor.)
Rogers Products Co. Inc. (See Albertine, Herman, assignor.)
Rollman, Bruce, assignor to The Ohio Cultivator Company, Bellevue, Ohio. Press. 1,750,432; Mar. 11.
Rolls Royce Limited. (See Ellor, James E., assignor.)
Romine, Robert T., Mount Clemens, assignor to Hudson Motor Car Company, Detroit, Mich. Trailer for automobile bodies. 1,750,128; Mar. 11.
Romine, Robert T., Mount Clemens, assignor to Hudson Motor Car Company, Detroit, Mich. Automobile body handling. 1,750,129; Mar. 11.
Romine, Robert T., Mount Clemens, assignor to Hudson Motor Car Company, Detroit, Mich. Handling and assembling automobile bodies. 1,750,130; Mar. 11.
Romine, Robert T., Mount Clemens, assignor to Hudson Motor Car Company, Detroit, Mich. Automobile body handling. 1,750,131; Mar. 11.
Romort Manufacturing Company. (See Ewald, Arno A., assignor.)
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,749,846; Mar. 11.
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,749,847; Mar. 11.
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,749,848; Mar. 11.
Roos, Delmar G., assignor to The Studebaker Corporation, South Bend, Ind. Spring shackle. 1,749,849; Mar. 11.
Root Spring Scraper Company. (See Weeks, Ernest A., assignor.)
Rorex, Evangeline. (See Aron, William P., assignor.)
Rosche, Joseph W., Minneapolis, Minn. Sanding and chamfering machine. 1,750,433; Mar. 11.
Rose, Bruce E., Exeter, Calif. Scraper. 1,750,132; Mar. 11.
Ross, Albert S., Dallas, Tex. Slug ejector. 1,749,986; Mar. 11.
Rosso, George W., Los Angeles, Calif. Transplanting machine. 1,750,054; Mar. 11.
Rothermel, Samuel W., Lynbrook, N. Y., and E. W. Hewitt, Stamford, Conn., assignors to The Western Union Telegraph Company, New York, N. Y. Speed-adjusting device for motor governors. 1,750,361; Mar. 11.
Rowe, Alvin V., Galesburg, Ill. Animal-feeding device. 1,750,025; Mar. 11.
Rowe, Alvin V., Galesburg, Ill. Hog house. 1,750,026; Mar. 11.
Roy, Wilfrid J., assignor to Gemex Company, Newark, N. J. Clasp for foldable extension devices. 1,750,133; Mar. 11.
Royal Typewriter Company. (See Myers, Lewis C., assignor.)
Rudigier, Edward A., Baltimore, Md., assignor to Standard Oil Development Company. Lubricant. 1,750,134; Mar. 11.
Runge, Arthur C., and E. C. Badger, Detroit, Mich.; said Badger assignor to said Runge. Fuel-charge moistener. 1,749,924; Mar. 11.
Ruesta, Andrew, assignor of one-half to J. Yurasits, Northampton, Pa. Bath cabinet. 1,750,284; Mar. 11.
Rusche, Theodorus W. A., Oosterbeek, Netherlands. Automatic heat-medium-control device. 1,749,850; Mar. 11.
Russell, Samuel G., E. L. Buchanan, and R. R. Potter, assignors to Shakespeare Products Company, Kalamazoo, Mich. Broom or the like. 1,749,987; Mar. 11.
Ruxton, George T., Alameda, assignor to Pacific Pumping Co., San Francisco, Calif. Pump. 1,750,135; Mar. 11.
Rydman, Carl G. A., Oakland, Calif. Dental mirror. 1,750,194; Mar. 11.
Samuels, André, Lyon, France, assignor, by mesne assignments, to Samuels Process Corporation, Boston, Mass. Machine for drying sheet material. 1,750,055; Mar. 11.
Samuels Process Corporation. (See Samuel, André, assignor.)
Sanders, Edward, Moorehead, Minn. Potato harvester. 1,750,362; Mar. 11.
Sanders, Granison M., assignor of one-half to M. L. Luce, Ontario, Calif. Piston-ring-fitting machine. 1,750,195; Mar. 11.
Sanitarium Equipment Company. (See Goodrich, Norris E., assignor.)
Savage, John L. (See McClellan, L. N., Kinzie, Savage, and Day.)
Schaefer, Josef, Frankfort-on-the-Main-Bockenheim, assignor, by mesne assignments, to Mieg Muhlenbau und Industrie Aktiengeselischaft, Frankfort-on-the-Main, Germany. Apparatus for grinding grain into crushed malt and the like. 1,749,925; Mar. 11.
Scher, Louis, Cleveland, Ohio. Ticket-delivery mechanism. 1,750,196; Mar. 11.

Schertel, Ludwig, and W. Lidy, assignors to the firm Th. Goldschmidt A.-G., Essen, Germany. Obtaining lead oxide in a state of high dispersion. 1,749,781; Mar. 11.
Schettler, Gustav A., Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me. Splitting machine. 1,749,891; Mar. 11.
Schild, Theodor, Grenchen, Switzerland. Pocket lighting device. 1,749,782; Mar. 11.
Schirmacher, Karl, and W. Schirmacher, Hoechst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Preparing diazosulphamic acids. 1,750,057; Mar. 11.
Schirmacher, Werner. (See Schirmacher, Karl and W.)
Schmid, Max, Nuremberg, Germany. Paper carriage for typewriting machines. 1,750,363; Mar. 11.
Schmierer, Johannes M., Gross Lichterfelde near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y. Discharge tube containing auxiliary electrodes. 1,750,058; Mar. 11.
Schmitz, Fred A., Canton, Ohio, assignor to The Berger Manufacturing Company. File follower. 1,750,544; Mar. 11.
Schmücking, August, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Separator drum. 1,750,364; Mar. 11.
Schneider, Max, Duisburg-Ruhrort, assignor to the firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. 1,750,365; Mar. 11.
Schoen, Arthur L., assignor to Eastman Kodak Company, Rochester, N. Y. Heat-elimination screen for projector systems. 1,750,197; Mar. 11.
Scholes, Daniel B., assignor to Aermotor Company, Chicago, Ill. Power-transmission gearing. 1,749,892; Mar. 11.
Schollmeyer, William A., Yonkers, N. Y. Shingle. 1,750,331; Mar. 11.
Schollmeyer, William A., Yonkers, N. Y. Shingle. 1,750,332; Mar. 11.
Schrauth, Walther, Berlin-Britz, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Cleaning, wetting, and emulsifying. 1,750,198; Mar. 11.
Schroeder, Emil F., Weyauwega, Wis. Animal trap. 1,750,027; Mar. 11.
Schroeder, James E., Houston, Tex. Sulphur mining. 1,750,136; Mar. 11.
Schuler, George, Woodside, N. Y. Awning. 1,750,285; Mar. 11.
Schulte, Artur, et al. (See Lüdorf, Gustav, assignor.)
Schwartz, Aaron. (See Stanger, Edward A., assignor.)
Schwedler, Gustave H., Kansas City, Mo. Sterilizer. 1,750,245; Mar. 11.
Schweigert, Frederick, New York, N. Y. Guard member for mop handles. 1,750,333; Mar. 11.
Scott, David C. (See Valentine, F. A., and Scott.)
Scott, Henry L., Company. (See Valentine, F. A., and Scott, assignors.)
Scott, William, Medford, Mass. Carburetor. 1,749,893; Mar. 11.
Scovill Manufacturing Company. (See Berger, Joseph E., assignor.)
Scullen Steel Company. (See Dreibuss, H. C., and Chiles, assignors.)
Scullin Steel Co. (See Dreibuss, Harry C., assignor.)
Seattle Astoria Iron Works. (See Troyer, N., and Pearson, assignors.)
Selden, Arthur R., Rochester, N. Y. Machine for banding a strip and cutting the latter between the bands to provide banded pieces. 1,750,059; Mar. 11.
Septer, Walter K., Duquesne, Pa. Workholding apparatus. 1,750,369; Mar. 11.
Sereico, Inc. (See Serrell, Lemuel W., assignor.)
Serrell, Lemuel W., assignor to Sereico, Inc., New York, N. Y. Electric terminal block. 1,750,246; Mar. 11.
Shakespeare Products Company. (See Russell, S. G., Buchanan, and Potter, assignors.)
Shapiro, A. S. (See Weisz, George R., assignor.)
Sharp & Dohme, Inc. (See Dohme, Alfred R. L., assignor.)
Sharples Specialty Company, The. (See Bath, Wilmer H., assignor.)
Sharrock and Pursel. (See Pursel, Harold M., assignor.)
Shaw Crane-Putnam Machine Company. (See Wall, George A., assignor.)
Shea, Elizabeth C. (See La Pangh, I., T., and Shea.)
Sheaffer, George, Hollywood, Calif. Brake-lining tightener. 1,750,056; Mar. 11.
Sheffield, Albert H., Kansas City, Kans. Terra-cotta-firing system. 1,749,988; Mar. 11.
Shepard, Albert L. (See Prigan, Ernest W., assignor.)
Sherman, Delmar C., Chattanooga, Tenn., assignor to Williamsport Wire Rope Company. Reverse-controlled operating mechanism. 1,749,783; Mar. 11.
Sherwan, August C., Milwaukee, Wis., assignor to Westinghouse Electric & Manufacturing Company. Spacer. 1,750,286; Mar. 11.
Shipley, Bernis M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,749,960; Mar. 11.
Shirley, Allen L., Panhandle, Tex. Grip for gear-shift levers for automobiles. Des. 80,697; Mar. 11.
Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Spring shackle. 1,750,607; Mar. 11.
Sieck, William, jr., Winnetka, assignor to William Garrigue & Company, Chicago, Ill. Evaporator. 1,750,434; Mar. 11.
Silent, Harold C., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Circuit controller. 1,749,851; Mar. 11.
Silica Gel Corporation, The. (See Hutchinson, William S., assignor.)
Silver, B. Coleman, Chicago, Ill. Child's seat. 1,750,435; Mar. 11.
Simmons Company. (See Bradshaw, Richard, assignor.)
Simplex Equipment Company. (See Blake, Eli J., assignor.)
Simplex Heat Regulator Company. (See Myer, Albert P., assignor.)
Simplex Piston Ring Co. of America, Inc., The. (See Solenberger, Dean M., assignor.)
Sinclair Refining Company. (See Taber, George H., jr., assignor.)
Singer Manufacturing Company, The. (See Waterman, Max L., assignor.)
Sloan, Theodore H., Charlerol, Pa. Coaster. Des. 80,698; Mar. 11.
Slotsky, David, Cleveland, Ohio. Mechanism for advertising devices. 1,749,784; Mar. 11.
Smiley, John F., Dallas, Tex. Self-service-store equipment. 1,750,060; Mar. 11.
Smith, Corie H. (See De Bracht, Joseph, assignor.)
Smith, Earl F., and G. K. Wilson, assignors to Midwest Metal Products Company, Muncie, Ind. Housing stay and support device. 1,750,061; Mar. 11.
Smith, Edward A., Chicago, Ill. Cabinet door and mirror frame. 1,750,366; Mar. 11.
Smith, Francis B., San Francisco, Calif. Method of and apparatus for setting precast forms in aqueous bodies. 1,750,137; Mar. 11.
Smith, Frank E., Scottdale, Pa. Conveyer-driving mechanism. 1,749,852; Mar. 11.
Smith, Garland B., Oconomowoc, Wis. Combined salt and pepper shaker. 1,749,853; Mar. 11.
Smith, James C., San Francisco, Calif. Christmas-tree holder. 1,750,367; Mar. 11.
Smith, Jesse R., Benton, Ill. Rotary brush. 1,750,062; Mar. 11.
Smith, John L., and F. L. Gushard, Cedar Falls, Iowa. Rotary valve for internal-combustion engines. 1,750,368; Mar. 11.
Smith, Walter E., Providence, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I. Center ornament for drapery rods or the like. Des. 80,699; Mar. 11.
Smith, Walter E., Providence, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I. End ornament for drapery rods or the like. Des. 80,700; Mar. 11.
Smith, William O., Cuyahoga Falls, Ohio. Hay loader. 1,749,785; Mar. 11.
Snelling, Walter O. (See Davis, Tenney L., assignor.)
Snyder, Roy D. (See Crawford, R. B. P., and Snyder.)
Società Italiana Pirelli. (See Pestalozza, Ugo, assignor.)
Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Boudin, Louis, assignor.)
Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Long, Bernard, assignor.)
Société du Film en Couleurs Keller-Dorian. (See Richard, Pierre A., assignor.)
Soelch, George F., Waukesha, Wis., assignor, by mesne assignments, to The Creamery Package Mfg. Company, Chicago, Ill. Bottle-washing machine. 1,749,989; Mar. 11.
Solenberger, Dean M., assignor to The Simplex Piston Ring Co. of America, Inc., Cleveland, Ohio. Piston ring. 1,749,786; Mar. 11.
Sorensen, Claude S., Los Angeles, Calif. Bell-pipe mold. 1,750,138; Mar. 11.
Sorg, William A., Owosso, Mich. Internal-combustion engine. 1,750,063; Mar. 11.
Sounitza, Vladimir B., Pasadena, Calif. Electric-arc cutting apparatus. 1,750,436; Mar. 11.
Spahn, Hilbert C., Kewanee, Ill. Motor stand. 1,750,199; Mar. 11.
Spahn, Hilbert C., Kewanee, Ill. Motor-supporting stand. 1,750,200; Mar. 11.
Spalsbury, Charles B., assignor to Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Making shoes. 1,749,926; Mar. 11.
Specht, Norbert, Oranienburg, near Berlin, assignor to Deutsche Gasglühlicht-Auer-Gesellschaft mit beschränkter Haftung, Berlin, Germany. Producing permanent paints. 1,750,287; Mar. 11.
Speidel Chain Co. (See Carlson, Edwin G., assignor.)
Spencer, Gardner A. B., and H. B. Cornish, Alameda, Calif. Two-cycle engine. 1,750,201; Mar. 11.
Spencer, Rowland, St. Annes-on-Sea, England. Multiple-ply woven fabric. 1,750,493; Mar. 11.
Spillman, Albert, North Tonawanda, N. Y. Amusement device. 1,750,494; Mar. 11.
Sprague-Sells Corporation. (See Lewis, Harold R., assignor.)
Staarup, Thomas, Birmingham, Ala. Gear-wheel-rounding apparatus. 1,749,787; Mar. 11.
Stabernack, Georg and R., Offenbach-on-the-Main, Germany. Packing container. 1,750,545; Mar. 11.
Stabernack, Richard. (See Stabernack, Georg and R.)

Staib, Karl, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of anhydrous magnesium chloride. 1,749,854; Mar. 11.

Standard Brands Incorporated. (See Harrison, Arthur P., assignor.)

Standard Oil Development Company. (See Rudigier, Edward A., assignor.)

Standard-Trump Bros. Machine Company. (See Housman, Harold E., assignor.)

Stanfield, Jasper H., Muskegon, Mich. Piston ring. 1,749,894; Mar. 11.

Stanger, Edward A., assignor of one-half to A. Schwartz, Montreal, Quebec, Canada. Electric heating device. 1,750,495; Mar. 11.

Staples, Harry O. (See Chance, T. M., and Staples.)

State, Will C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-lining machine. 1,750,437; Mar. 11.

Stearns & Foster Company, The. (See Nash, Benjamin S., assignor.)

Stearns & Foster Company, The. (See Parsons, Ethel M., assignor.)

Stedefeld, Curt, Heidelberg, Germany. Running gear for high-speed suspension cars. 1,750,064; Mar. 11.

Steel and Tubes, Inc. (See Harvey, H. E., and Holmes, assignors.)

Steeves, Aubrey C., Hillsboro, New Brunswick, Canada. Land breaker and plow. 1,750,202; Mar. 11.

Steffen, Adolf, assignor to Adams Bros. Mfg. Co., Inc., Pittsburgh, Pa. Gas radiant heater. Des. 80,701; Mar. 11.

Steffen, Adolf, assignor to Adams Bros. Mfg. Co., Inc., Pittsburgh, Pa. Gas radiant heater. Des. 80,702; Mar. 11.

Steinitz, Oswald G., Berkeley, Calif. Signaling recorder. 1,749,927; Mar. 11.

Steinmüller, L. & C. (See Steinmüller, Lebrecht, assignor.)

Steinmüller, Lebrecht, Gummersbach, assignor to the firm L. & C. Steinmüller, Gummersbach, Rhineland, Germany. Traveling grate. 1,750,065; Mar. 11.

Stephenson, Bird R., assignor, by mesne assignments, to Continental Oil Company, Ponca City, Okla. Sounding apparatus. 1,749,928; Mar. 11.

Stern, Louis J., New York, N. Y. Liquid container. 1,750,334; Mar. 11.

Stevenson, Ashton G., Chicago, Ill. Making printers' metal furniture. 1,749,855; Mar. 11.

Stewart, John H., Lynnfield, Mass. Counter-molding machine. 1,750,438; Mar. 11.

Stewart, Otho V., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Polishing compound. 1,750,288; Mar. 11.

Stock, Johann J. F., Munich, and P. Effing, Berlin, Germany. Producing cinematographic titles, headlines, announcements, and the like. 1,749,961; Mar. 11.

Stoker, Paul P., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,750,247; Mar. 11.

Stoll, Charles, Rockaway Beach, assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y. Settee or similar article. Des. 80,703; Mar. 11.

Stoll, Charles, Rockaway Beach, assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y. Settee or similar article. Des. 80,704; Mar. 11.

Stoll, Charles, Rockaway Beach, assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y. Settee or similar article. Des. 80,705; Mar. 11.

Stoll, Charles, Rockaway Beach, assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y. Settee or similar article. Des. 80,706; Mar. 11.

Straub, Francis J., and Joseph T. Weinzierl, New Kensington, Pa. Gear-shifting mechanism. 1,749,962; Mar. 11.

Straus, Philip R., Baltimore, Md. Camera strap for measuring distances. 1,750,370; Mar. 11.

Strausser, Herbert S., assignor to Otis Manufacturing Co., Chicago, Ill. Pocket lighter. Des. 80,707; Mar. 11.

Streun, John A., assignor to Hardwicke-Etter Company, Sherman, Tex. Cotton picker. 1,750,439; Mar. 11.

Stride, William T., assignor to A B C Rug Cleaners Inc., Rochester, N. Y. Rug-cleaning machine. 1,750,496; Mar. 11.

Stripling, Julius A., Fort Dodge, Iowa. Gate. 1,750,066; Mar. 11.

Strock, Joseph G., Pittsburgh, Pa. Economizer for use with furnaces. 1,750,203; Mar. 11.

Studebaker Corporation, The. (See Hunt, George, assignor.)

Studebaker Corporation, The. (See Roos, Delmar G., assignor.)

Stuebing, William, jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn. Lifting truck. 1,750,289; Mar. 11.

Stüsser, Richard, Cologne-Deutz, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyes. 1,750,067; Mar. 11.

Summers, Caleb E., Pontiac, assignor to General Motors Research Corporation, Detroit, Mich. Balancing-machine fixture. 1,750,608; Mar. 11.

Summit Mold & Machine Company, The. (See Palmer, John E., assignor.)

Sun Rise Lamp Mfg. Co. (See Zweig, Louis, assignor.)

Sundh Electric Company. (See Deans, W., and Kaufman, assignors.)

Superbeater Company, The. (See Armacost, Wilbur H., assignor.)

Surface Combustion Company, The. (See McCoy, Philip W., assignor.)

Sutherland, Fred A. (See Dowell, Archie G., assignor.)

Svenska Aktiebolaget Bromsregulator. (See Browall, Bert H., assignor.)

Swift, William S., Westerleigh, Staten Island, N. Y. Revolver holster. 1,750,139; Mar. 11.

Sykes, William E., Slough, England. Cutter relief mechanism for machine tools. 1,750,028; Mar. 11.

Sykes, William E., Slough, England. Cutting gear teeth. 1,750,029; Mar. 11.

Sykes, William E., Slough, England. Machine for cutting gear teeth. 1,750,030; Mar. 11.

Sykes, William E., Buffalo, N. Y. Machine for generating gear teeth. 1,750,031; Mar. 11.

Synck, Henry, assignor to The New Idea Spreader Company, Coldwater, Ohio. Corn-husking mechanism. 1,750,546; Mar. 11.

Szekely, Otto E., and R. H. Johnson, Holland, Mich. Piston-ring-spring machine. 1,749,895; Mar. 11.

Taber, George H., jr., Rye, assignor to Sinclair Refining Company, New York, N. Y. Manufacture of lubricating oil. 1,749,896; Mar. 11.

Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)

Tabulating Machine Company, The. (See Ewald, Bernhard K. F., assignor.)

Tactiphone Company, The, et al. (See MacDonald, Joel W., assignor.)

Tallent, Joseph A., Alton Park, assignor of thirty per cent to D. T. Jones and thirty per cent to J. U. Jones, Chattanooga, Tenn. Ice-cream-cone-making machine. 1,750,497; Mar. 11.

Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Reducing hysteresis effects in electrical apparatus. 1,749,897; Mar. 11.

Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Reducing the effects of residual magnetism in electrical apparatus. 1,749,929; Mar. 11.

Tanner, Herbert G., Eugene, Oreg. Composition of matter for coloring flames. 1,750,371; Mar. 11.

Tarver, William H., Savannah, Ga. Display cabinet. 1,750,440; Mar. 11.

Tate, Kenneth L., assignor to Taylor Instrument Companies, Rochester, N. Y. Apparatus for making capillary tubes. 1,750,372; Mar. 11.

Taylor, Frank F., Norwood, Ohio. Toy vehicle. 1,750,547; Mar. 11.

Taylor Instrument Companies. (See Noyes, Bradford, jr., assignor.)

Taylor Instrument Companies. (See Tate, Kenneth L., assignor.)

Taylor, Raymond D., Winnetka, Ill., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Fastener-setting machine. 1,749,856; Mar. 11.

Taylor, Robert S., Brooklyn, assignor to Electrolux Servel Corporation, New York, N. Y. Combination filling and fusible plug fitting. 1,750,335; Mar. 11.

Taylor-Winfield Corporation. (See Todd, Russell T., assignor.)

Teague, Walter D., Forest Hill, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind. Bottle or similar container. Des. 80,708; Mar. 11.

Teague, Walter D., Forest Hill, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind. Bottle or similar container. Des. 80,709; Mar. 11.

Terry, Matson C., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-starting switch. 1,750,336; Mar. 11.

Textile Machine Works. (See Meyer, Christian F., assignor.)

Textile Machine Works. (See Meyer, C. F., and Bitzer, assignors.)

Thomas, Willis P., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,750,548; Mar. 11.

Thompson, Cecil E. (See Coe, D. W., and Thompson.)

Thompson, Herbert L., Elgin, assignor to Addressograph Company, Chicago, Ill. Antifriction bearing. 1,750,140; Mar. 11.

Thompson, Howard A., Edgewood Borough, assignor to the Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,750,441; Mar. 11.

Thompson, John (Dudley) Limited. (See Partridge, Harry E., assignor.)

Thompson, Orville J., Franklin, Pa. Fishing tool for sucker rods. 1,750,248; Mar. 11.

Thompson, Paul R. (See Ballentine, W. I., and Thompson.)

Thomson, John M., Long Island City, N. Y., and P. Hardy, Bridgeport, Conn. Exercising apparatus. 1,750,549; Mar. 11.

Thomson, William P., assignor to The Rail Joint Company, New York, N. Y. Insulated rail joint. 1,749,857; Mar. 11.

Tiers, Ellsworth E. (See Griffin, J. H., and Tiers.)

Timken-Detroit Axle Company, The. (See Brownyer, Nelson R., assignor.)

Timtiman, Mamerto V., Manila, P. I. Receiving set. 1,750,032; Mar. 11.

Tingley, Bruce H., assignor to Ohmer Fare Register Company, Dayton, Ohio. Weighing counter. 1,749,788; Mar. 11.

Todd, Russell T., Warren, Ohio, assignor to The Taylor-Winfield Corporation. Electrical welding machine. 1,750,442; Mar. 11.

Toledo Pipe Threading Machine Co. (See Vosper, William W., assignor.)

Tolley, Donald B., assignor to American Steel Products Co., Macomb, Ill. Oil-burning brooder. 1,749,990; Mar. 11.

Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Hub cap. Des. 80,710; Mar. 11.

Toncray, Millard H., assignor to Hudson Motor Car Company, Detroit, Mich. Hub cap. Des. 80,711; Mar. 11.

Toomey, Richard E. S., and J. C. Evans, assignors to S. G. Morrow, trustee, Miami, Fla. Airplane appliance. 1,749,858; Mar. 11.

Toronto Type Foundry Company, Limited. (See Palmer, Ernest E., assignor.)

Torriani, Angelo, Pavia, Italy. Express coffee-machine set. 1,750,068; Mar. 11.

Trecker, Theodore, and J. B. Armitage, Milwaukee, assignors to Kearney & Trecker Corporation, West Allis, Wis. Attachment for machine tools. 1,750,873; Mar. 11.

Treiman, Morris, assignor to Mexican American Hat Company, St. Louis, Mo. Hat. Des. 80,716; Mar. 11.

Troyer, Nelson, and P. E. Pearson, assignors to Seattle Astoria Iron Works, Seattle, Wash. Expander and clamp mechanism for can-body machines. 1,750,550; Mar. 11.

Truax, Charles C., Toledo, Ohio. Drying, cleaning, and polishing sheet metal with corncob material. 1,750,498; Mar. 11.

Truax, Charles C., Toledo, Ohio. Treating articles in tumbling barrels. 1,750,499; Mar. 11.

Truett, Velma S., and H. H. George, San Francisco, Calif. Musical instrument. 1,750,069; Mar. 11.

Tull, Richard W. (See Bailey, Howard C., assignor.)

Tullis, Jasper G., Cleveland, assignor, by mesne assignments, to The Jaeger Machine Company, Columbus, Ohio. Laying bitumen pavements. 1,750,443; Mar. 11.

Türke, Johannes, Beuthen, assignor to E. Kleinschmidt, Frankfort-on-the-Main, Germany. Apparatus for binding pulverulent fuel. 1,750,609; Mar. 11.

Turner Glass Corporation. (See Teague, Walter D., assignor.)

Turner Tanning Machinery Company, The. (See Schettler, Gustav A., assignor.)

Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,750,070; Mar. 11.

Uhde, Georg F., Bovinghausen, Germany. Synthetically producing ammonia from its elements. 1,750,551; Mar. 11.

Ulrich, Wilhelm, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Two-stroke internal-combustion engine. 1,749,859; Mar. 11.

Umbreit, Emil C., Rock Lake, N. Dak. Distributing apparatus. 1,750,552; Mar. 11.

Underwood Elliott Fisher Company. (See Oswald, Alfred E., assignor.)

Union Switch & Signal Company, The. (See Bone, Herbert L., assignor.)

Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)

Union Switch & Signal Company, The. (See Myers, John R., assignor.)

Union Switch & Signal Company, The. (See Peter, Leslie H., assignor.)

Union Switch & Signal Company, The. (See Stoker, Paul P., assignor.)

Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)

Universal Chain Co. Inc. (See Weinacker, Hermann, assignor.)

Upson, Ralph H., assignor to Aircraft Development Corporation, Detroit, Mich. Airship fins and stabilization. 1,750,141; Mar. 11.

United-Carr Fastener Corporation. (See Taylor, Raymond D., assignor.)

United Milk Crate Corporation. (See Wildberg, Richard N., assignor.)

United Shoe Machinery Corporation. (See Bresnahan, Maurice V., assignor.)

United Shoe Machinery Corporation. (See Nabb, James W., assignor.)

U. S. Manufacturing Corporation. (See Le Pere, John G., assignor.)

U. S. Slicing Machine Company. (See Van Berkel, Cornelis F. M., assignor.)

Valentine, Albert H., and J. C. Lemming, assignors to The Moraine Products Company, Dayton, Ohio. Sizing die for flange bearings. 1,750,290; Mar. 11.

Valentine, Frank A., Apponaug, and D. C. Scott, assignors to Henry L. Scott Company, Providence, R. I. Testing machine. 1,749,991; Mar. 11.

Vallen, Earl J., Akron, Ohio. Curtain track. 1,750,444; Mar. 11.

Vallen, Earl J., Akron, Ohio. Curtain track. 1,750,445; Mar. 11.

Van Berkel, Cornelis F. M., Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 1,750,071; Mar. 11.

Van de Sandt, Alfred, Los Angeles, Calif. Stone buffer. 1,749,860; Mar. 11.

Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,750,374; Mar. 11.

Vandivort, Homer H., Bado, assignor of one-fourth to L. L. Grisham, one-fourth to R. B. Grisham, and one-fourth to R. C. Miles, Elk Creek, Mo. Collapsible-box-carrying means. 1,750,072; Mar. 11.

Vereinigte Stahlwerke Aktiengesellschaft. (See Schneider, Max, assignor.)

Vinciguera, Anthony M., Brooklyn, N. Y. Bag gusset. 1,750,375; Mar. 11.

Vlchek Tool Company, The. (See Kneier, Joseph, assignor.)

Voetter, Ernst, Konstanz, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Sulphur dyestuff paste. 1,749,963; Mar. 11.

Von Loeben, Rudolf C. (See Emmrich, Paul, assignor.)

Vortex Cup Company. (See Barbieri, Cesare, assignor.)

Vosper, William W., assignor to The Toledo Pipe Threading Machine Co., Toledo, Ohio. Pipe cutter. 1,749,861; Mar. 11.

Vreeland, Frederick K., Montclair, N. J. Variable-circuit elements for radio receiving sets. 1,749,930; Mar. 11.

Wadsworth Watch Case Co., The. (See McFarland, James C., assignor.)

Wagner Electric Corporation. (See Weichsel, Hans, assignor.)

Wahlberg, Nils A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Mfg. Co. Transmission-line device. 1,750,249; Mar. 11.

Wakefield, Frank E., assignor to Illinois Watch Case Company, Elgin, Ill. Ash tray. Des. 80,712; Mar. 11.

Wall, George A., Wilmington, assignor to Shaw Crane-Putman Machine Company, Inc., Fitchburg, Mass. Support for rotary slitters. 1,749,931; Mar. 11.

Wallace, J. D., & Company. (See Wallace, J. D., and Landis, assignors.)

Wallace, John D., and C. H. Landis, assignors to J. D. Wallace & Company, Chicago, Ill. Dynamo-electric machine. 1,750,446; Mar. 11.

Wallace, Robert S., Pocahontas, Va. Rail bond. 1,750,553; Mar. 11.

Wallis, Cyril T., assignor, by mesne assignments, to North-East Appliance Corporation, Rochester, N. Y. Speedometer. 1,750,337; Mar. 11.

Walsh, George L., assignor to J. M. Rector, Jersey City, N. J. Filter. 1,750,073; Mar. 11.

Walter, Josef, Modling, Austria. Bushing for lining the bores of joints. 1,750,554; Mar. 11.

Wanek, Frank, Doran, Minn. One-man-orchestra device. 1,749,862; Mar. 11.

Ward, Walter B., Memphis, Tenn. Abrading machine. 1,749,898; Mar. 11.

Warner Gear Company. (See White, Samuel O., assignor.)

Warner, Irving, Wilmington, Del. Shipping container. 1,750,074; Mar. 11.

Waterman, Max L., Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rotray-hook mechanism for sewing machines. 1,750,447; Mar. 11.

Waterman, William W., Tulsa, Okla. Animal trap. 1,750,075; Mar. 11.

Waukesha Motor Company. (See Pope, Arthur W., jr., assignor.)

Weeks, Ernest A., assignor to Root Spring Scraper Company, Kalamazoo, Mich. Road scraper. 1,750,610; Mar. 11.

Wege, Peter M., assignor to Metal Office Furniture Co., Grand Rapids, Mich. Drawer slide. 1,750,448; Mar. 11.

Wehner, Karl, Mannheim, Germany. Support for curtains and portières and for the rods for the same. 1,749,863; Mar. 11.

Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,750,076; Mar. 11.

Weil-McLain Company. (See Casserly, Thomas D., assignor.)

Weinacker, Hermann, assignor to Universal Chain Co. Inc., Maplewood, N. J. Link-welding machine. 1,750,142; Mar. 11.

Weinzierl, Joseph T. (See Straub, F. J., and Weinzierl.)

Weiss, Albert, New York, N. Y. Envelope-opening machine. 1,750,338; Mar. 11.

Weiss, Joseph, Chicago, Ill. Shoe construction. 1,749,864; Mar. 11.

Weisz, George R., assignor of one-half to A. S. Shapiro, Chicago, Ill. Toothbrush. 1,750,500; Mar. 11.

Welch, Asa B., Atlanta, Ga. Dirigible headlight. 1,750,077; Mar. 11.

Welding Engineers Incorporated. (See Hendrickson, John B., assignor.)

Wellington, Curtis F., Leominster, Mass. Shoe and hosiery bench. 1,749,865; Mar. 11.

Welsbach Traffic Signal Company. (See Keith, William G., assignor.)

Welte-Mignon Corporation. (See Cheek, Tolbert F., assignor.)

Wendel, Daniel C. (See Mueller, C. C., jr., and Wendel.)
Wesel, F., Manufacturing Company. (See Adam, William J., assignor.)
Wesel, F., Manufacturing Company. (See Bassist, Ellis, assignor.)
Weslake, Henry, London, England. Carburetor for internal-combustion engines. 1,750,376; Mar. 11.
Wesley, Joseph A., assignor to Lu-Mi-Nus Signs, Inc., Chicago, Ill. Advertising sign. Des. 80,713; Mar. 11.
Western Electric Company. (See Franks, C. H., and Olsen, assignors.)
Western Electric Company. (See Jonkel, F. F., and Larson, assignors.)
Western Electric Company. (See Olsen, Marvin R., assignor.)
Western Electric Company. (See Patchen, R. H., and Rock, assignors.)
Western Railway Equipment Company. (See Cooper, W. E., and Habenicht, assignors.)
Western Sulphur Company. (See Wright, Jacob H., assignor.)
Western Union Telegraph Company, The. (See Rothermel, S. W., and Hewitt, assignors.)
Westinghouse Electric & Manufacturing Company. (See Callsen, Albert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Corbett, Alfred, assignor.)
Westinghouse Electric & Manufacturing Company. (See Gross, Joseph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fulton, Robert B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Legg, Joseph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Moyer, Howard R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ostrolenk, Samuel, assignor.)
Westinghouse Electric & Manufacturing Company. (See Sherwan, August C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stewart, Otho V., assignor.)
Westinghouse Electric & Manufacturing Company. (See Terry, Matson C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils A., assignor.)
Westinghouse Lamp Company. (See Lorenz, Charles F., assignor.)
Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)
Wheeler, Edison L., Evanston, Ill. Fireproof legging. 1,749,789; Mar. 11.
Whetstone, Irene B., Chicago, Ill. Filing cabinet. 1,750,291; Mar. 11.
Whipp, Wendell E., assignor to The Monarch Machine Tool Company, Sidney, Ohio. Geared headstock for lathes. 1,750,555; Mar. 11.
White, Charles E., assignor to Deere & Company, Moline, Ill. Combined mower and windrower. 1,750,033; Mar. 11.
White, Olga H., New York, N. Y. Game device. Des. 80,714; Mar. 11.
White, Samuel O., assignor to Warner Gear Company, Muncie, Ind. Transmission gear. 1,750,292; Mar. 11.
Whitehead and Kales Company. (See Judd, Irving H., assignor.)
Wichner, Robert G., Coloma, Wis. Protecting container for butter tubs or the like. 1,750,204; Mar. 11.
Wickersham, Newton W., assignor to Perkins Cementing, Inc., Los Angeles, Calif. Cementing head. 1,750,143; Mar. 11.
Wickwire Spencer Steel Company. (See Woodman, Francis N., assignor.)
Widman, Albert, Newcastle, Ind. Valve silencer. 1,750,377; Mar. 11.
Wikander, Oscar R. (See Bell, F. B., and Wikander.)
Wildberg, Richard M., assignor, by mesne assignments, to United Milk Crate Corporation, Cincinnati, Ohio. Corner iron for boxes. 1,750,556; Mar. 11.
Willheim, Ernst, Gilgenberg, Austria. Control apparatus. 1,750,078; Mar. 11.
Williams, Edward T., Brooklyn, N. Y. System and method of lubricating compressors. 1,750,293; Mar. 11.
Williams, J. H., & Co. (See Kress, Willard C., assignor.)
Williams, Paul F., assignor to G & W Electric Specialty Co., Chicago, Ill. Electrical connecter. 1,749,790; Mar. 11.
Williamsport Wire Rope Company. (See Sherman, Delmar C., assignor.)
Willis, William N., Medford, Mass. Clothespin bag. 1,749,992; Mar. 11.
Willmore, Knight N., Fairfax, Okla. Grease gun. 1,750,378; Mar. 11.
Wills, Ellis V., St. Louis, Mo. Tool. 1,750,079; Mar. 11.
Willumsen, Oscar, Ocean Park, Calif. Reserve dispensing container. 1,750,205; Mar. 11.
Willys-Overland Company, The. (See Mares, Joseph R., assignor.)
Wilson, Guy K. (See Smith, E. F., and Wilson.)
Winarsky, Edmund, Brunswick, Germany. Reducing valve. 1,750,206; Mar. 11.
Winn, Sidney B., Lapeer, Mich. Hand-brake-lever assembly. 1,750,449; Mar. 11.
Winser, Charles B., Clapham, London, England. Continuous kiln. 1,749,866; Mar. 11.
Wisti, Andrew O., Indianapolis, Ind. Brake-lining machine. 1,750,144; Mar. 11.
Withrow, Floyd G., Grand Rapids, Mich. Antirattling device. 1,750,080; Mar. 11.
Wolverine Brass Works. (See Cornelius, Louis A., assignor.)
Wood, Andrew C., Chicago, Ill. Mail box. 1,750,839; Mar. 11.
Wood, Frank T., Brookline, Mass., assignor to American Bank Note Company, New York, N. Y. Printing press. 1,750,557; Mar. 11.
Wood, George B., assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio. Recording scale. 1,750,207; Mar. 11.
Wood, Harry L., Lakewood, assignor to D. W. K. Peacock, Cleveland, Ohio. Work-feeding mechanism for typewriting machines. 1,749,791; Mar. 11.
Wood, Morris B., Somerville, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Portable metal electric-switch house. 1,750,250; Mar. 11.
Wood Newspaper Machinery Corporation. (See Isbell, John A., assignor.)
Wood, Robert F., and E. A. Heckler, Glenside, Pa. Differential helical chute. 1,750,081; Mar. 11.
Woodhead, Carl W., Gilman, Colo. Operating mechanism for glare shields. 1,750,450; Mar. 11.
Woodman, Francis N., Clinton, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y. Sectional conveyer belt. 1,749,932; Mar. 11.
Woods, Harold B., Arlington, Mass., assignor, by mesne assignments, to Consolidated Automatic Merchandising Corporation. Check detector. 1,749,792; Mar. 11.
Woolfenden, Henry L., Detroit, Mich. Garage construction. 1,749,793; Mar. 11.
Woolley, William J., Chicago, Ill. Bath-fixture lug. 1,749,794; Mar. 11.
Worcester Knitting Co., The. (See Barnett, Arthur J., assignor.)
Worthington, Charles C., Dunfield, N. J. Cleated ground wheel. 1,750,145; Mar. 11.
Wray, James A., Los Angeles, Calif. Fluid-operated pump. 1,750,146; Mar. 11.
Wright, Jacob H., Oakland, assignor to Western Sulphur Company, Inc., San Francisco, Calif. Plant-dusting machine. 1,750,147; Mar. 11.
Wrightson, Victoria. (See Wrightson, Wilfrid I. and V.)
Wrightson, Wilfrid I. and V., Newcastle-upon-Tyne, England. Nail-cleaning appliance. 1,750,451; Mar. 11.
Wyler, Max, Blackley, assignor to British Dyestuffs Corporation, Limited, Manchester, England. Purifying quinoline and quinaldine. 1,750,082; Mar. 11.
Yale & Towne Manufacturing Company, The. (See Stuebing, William, jr., assignor.)
Yellow Truck and Coach Manufacturing Company. (See Lane, Edwin G., assignor.)
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Combination tearing-strip and friction-closure can. 1,750,251; Mar. 11.
Yurasits, John. (See Rusatz, Andrew, assignor.)
Zabriskie, Charles L., New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc. Grease gun. 1,750,148; Mar. 11.
Zahnradfabrik Aktiengesellschaft. (See Maier, Albert, assignor.)
Zamboni, Frank J., Haynes, assignor to Nuway Electric Company, Los Angeles, Calif. Reactance coil. 1,750,149; Mar. 11.
Zangerle and Peterson Company, The. (See Christiansen, William F., assignor.)
Zaymuss, Illés, Budapest, Hungary. Thrashing machine. 1,750,083; Mar. 11.
Zeiss Ikon Aktiengesellschaft. (See Goldberg, E., and Fischer, assignors.)
Zell, David H., Brooklyn, N. Y. Decorative covering for vanity cases, coin banks, and other receptacles. 1,749,795; Mar. 11.
Zettergren, Birger, Stockholm, Sweden. Machine for kneading, crushing, and similar operations. 1,750,568; Mar. 11.
Zimmermann, William F., Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Locking device. 1,750,340; Mar. 11.
Zweig, Louis, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lamp shade. Des. 80,715; Mar. 11.
Zwierzina, Alois J. (See Ackerman, E. L., and Zwierzina.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading and crushing machine. P. L. Crowe. 1,750,573; Mar. 11.
Abrading machine. W. B. Ward. 1,749,898; Mar. 11.
Acids, Preparing diazosulphamic. R. and W. Schirmacher. 1,750,057; Mar. 11.
Advertising devices, Mechanism for. D. Slotsky. 1,749,784; Mar. 11.
Aeroplane. E. H. Lanier. 1,750,529; Mar. 11.
Aeroplane with a plurality of propellers, Helicopter. J. Hojnowski. 1,750,108; Mar. 11.
Air control for water-supply systems, Automatic. J. A. Anderson and W. H. Elmes. 1,749,797; Mar. 11.
Aircraft, Structural design for. H. F. Lake. 1,749,951; Mar. 11.
Airplane. H. J. Read. 1,749,959; Mar. 11.
Airplane appliance. R. E. S. Toomey and J. C. Evans. 1,749,858; Mar. 11.
Airplane-wing connection. C. M. Johnson. 1,749,769; Mar. 11.
Airplanes, Surface control mechanism for. F. R. Canney. 1,750,089; Mar. 11.
Airship fins and stabilization. R. H. Upson. 1,750,141; Mar. 11.
Alarm signal, Automatic. T. Pernek, sr. 1,750,488; Mar. 11.
Alternating-current motor. H. Weichsel. 1,750,076; Mar. 11.
Ammonia and its elements, Synthetically producing. G. F. Uhde. 1,750,551; Mar. 11.
Amusement device. M. McLennan. 1,749,918; Mar. 11.
Amusement device. A. Spillman. 1,750,494; Mar. 11.
Anchorage for car roofs, Hoisting. E. G. Franck. 1,749,973; Mar. 11.
Animal trap. E. F. Schroeder. 1,750,027; Mar. 11.
Animal trap. W. W. Waterman. 1,750,075; Mar. 11.
Antenna system. F. Conrad. 1,750,347; Mar. 11.
Antirattling device. F. G. Withrow. 1,750,080; Mar. 11.
Arc cutting apparatus, Electric. V. B. Sounitsa. 1,750,436; Mar. 11.
Arch insert. H. Lifschutz. 1,750,479; Mar. 11.
Articles, Apparatus for arranging. C. H. Franks and M. R. Olsen. 1,750,315; Mar. 11.
Articles, Apparatus for arranging. F. F. Jonkel and H. W. Larson. 1,750,310; Mar. 11.
Articles, Apparatus for arranging. M. R. Olsen. 1,750,327; Mar. 11.
Articles, Apparatus for arranging. R. H. Patchen and G. L. Rock. 1,750,329; Mar. 11.
Articles, Apparatus for arranging and magazining. R. H. Patchen and G. L. Rock. 1,750,328; Mar. 11.
Articles in tumbling barrels, Treating. C. C. Truax. 1,750,499; Mar. 11.
Ash receiver. E. C. Eve. 1,750,038; Mar. 11.
Audition and apparatus for practicing the same. J. W. MacDonald. 1,750,045; Mar. 11.
Auto screen. J. R. Barry. 1,750,348; Mar. 11.
Automobile bodies, Handling and assembling. R. T. Romine. 1,750,130; Mar. 11.
Automobile body handling. R. T. Romine. 1,750,129; Mar. 11.
Automobile body handling. R. T. Romine. 1,750,131; Mar. 11.
Automobile jack. E. W. Holmes. 1,750,598; Mar. 11.
Automobile signal. N. W. Coffey. 1,749,986; Mar. 11.
Awning. L. Kasan. 1,750,271; Mar. 11.
Awning. G. Schuler. 1,750,285; Mar. 11.
Bag; *See*—
  Clothespin bag. Ham bag.
Bag frame. W. C. Hiering. Des. 80,691; Mar. 11.
Bag gusset. A. M. Vinciguera. 1,750,375; Mar. 11.
Baking-pan unit. E. H. Chandonia. 1,749,800; Mar. 11.
Baling block. T. Gray. 1,750,466; Mar. 11.
Ballast-dressing machine for railroads. S. F. Clapp. 1,750,506; Mar. 11.
Basket. G. O. Reshaw. 1,750,117; Mar. 11.
Bathing device, Buoyant. H. A. Johnson. 1,749,820; Mar. 11.
Battery connecter. M. M. Armstrong. 1,750,501; Mar. 11.
Battery plate, Dry-charged. W. S. Hutchinson. 1,749,819; Mar. 11.
Bearing, Antifriction. H. L. Thompson. 1,750,140; Mar. 11.
Bedstead frame. W. A. French. Des. 80,688; Mar. 11.
Bench: *See*—
  Shoe and hosiery bench.
Binder, Harvester. L. A. Paradise. 1,749,777; Mar. 11.
Block: *See*—
  Baling block. Electric terminal block.
  Crown block.
Blotter. H. Pick. 1,750,022; Mar. 11.
Boiler: *See*—
  Steam boiler.
Boiler cleaner. W. P. Thomas. 1,750,548; Mar. 11.
Boiler furnace. J. W. Dyar. 1,749,908; Mar. 11.
Bolt: *See*—
  Locking bolt.
Bonded materials, Recovery of. E. L. Hauman. 1,750,174; Mar. 11.
Book, Manifolding. E. F. Palmer. 1,750,189; Mar. 11.
Boot, Russian. G. Faulstich. 1,750,297; Mar. 11.
Bottle. J. B. O'Hara. Des. 80,695; Mar. 11.
Bottle or similar container. W. D. Teague. Des. 80,708–9; Mar. 11.
Box: *See*—
  Mail box.
Box. A. Freed. Des. 80,687; Mar. 11.
Box-carrying means, Collapsible. H. H. Vandivort. 1,750,072; Mar. 11.
Box or similar article. J. E. Berger. Des. 80,667; Mar. 11.
Bracelet strap. E. Prestinari. 1,750,125; Mar. 11.
Brake: *See*—
  Expanding brake. Internal brake.
  Hand brake.
Brake lever assembly, Hand. S. B. Winn. 1,750,449; Mar. 11.
Brake-lining machine. A. O. Wisti. 1,750,144; Mar. 11.
Brake-lining tightener. G. Sheaffer. 1,750,056; Mar. 11.
Brake rigging for railway cars and the like. B. H. Browall. 1,750,566; Mar. 11.
Brake shoe. W. M. Duncan. 1,749,760; Mar. 11.
Braking apparatus, Railway. H. L. Bone. 1,750,345; Mar. 11.
Brassière for bathing suits. A. J. Barnett. 1,749,966; Mar. 11.
Breeches leg, Adjustable riding. J. K. Hicks. 1,750,595; Mar. 11.
Broaching machine. C. W. Eggenweiler. 1,749,761; Mar. 11.
Brooder, Oil-burning. D. B. Tolley. 1,749,990; Mar. 11.
Broom or the like. S. G. Russell, E. L. Buchanan, and R. R. Potter. 1,749,987; Mar. 11.
Brush, Rotary. J. R. Smith. 1,750,062; Mar. 11.
Buckle. W. L. Myers. Des. 80,693; Mar. 11.
Buffer, Stone. A. Van de Sandt. 1,749,860; Mar. 11.
Building blocks, Process of and apparatus for molding. G. W. Dunn. 1,750,511; Mar. 11.
Burner. C. M. Hunter and H. P. Philpot. 1,749,942; Mar. 11.
Burner for natural gas. P. W. McCoy. 1,750,616; Mar. 11.
Burnishing machine. J. W. Nesbitt. 1,749,982; Mar. 11.
Bushing for lining the bores of joints. J. Walter. 1,750,554; Mar. 11.
Bushing for rotary drilling machines, Drive. E. E. Greve. 1,749,809; Mar. 11.
Bushing, Outlet-box-clamp. W. A. Bonnell. 1,750,257; Mar. 11.
Button housing, Push. N. G. Hayes. 1,750,469; Mar. 11.
Button or similar article. W. W. Hobé. Des. 80,692; Mar. 11.
Cabinet, Article displaying and vending. G. A. Krebs. 1,750,528; Mar. 11.
Cabinet, Bath. A. Rusatz. 1,750,284; Mar. 11.
Cabinet, Display. W. H. Tarver. 1,750,440; Mar. 11.
Cabinet, Filing. I. B. Whetstone. 1,750,291; Mar. 11.
Cable, High-tension. P. Mahlke. 1,750,111; Mar. 11.
Caliper and divider, Combination. F. M. Nolder. 1,750,486; Mar. 11.
Camera-lens carriage and track latch. C. C. Fuerst. 1,750,222; Mar. 11.
Camera strap for measuring distances. P. R. Straus. 1,750,870; Mar. 11.
Camera with clockwork driving mechanism, Cinematograph. E. Goldberg and O. Fischer. 1,750,401; Mar. 11.
Can-body machines, Expander and clamp mechanism for. N. Troyer and P. E. Pearson. 1,750,550; Mar. 11.
Can-end-feeding mechanism. J. Coyle and W. Plumb. 1,750,391; Mar. 11.

Candelabra. A. M. Goldstone. 1,750,171; Mar. 11.
Cap. D. J. Cremen. Re17,620; Mar. 11.
Capillary tubes, Apparatus for making. K. L. Tate. 1,750,372; Mar. 11.
Capping mechanism. J. J. Mojonnier, H. R. Phillips, and H. J. Clarke. 1,750,419; Mar. 11.
Car body, Cast-metal. A. W. Albrecht. 1,749,756; Mar. 11.
Car construction. G. E. Coutant. 1,749,874; Mar. 11.
Car, Railway. W. S. Adams. 1,750,559; Mar. 11.
Carbon-monoxide consumer. W. S. Bailey. 1,750,342; Mar. 11.
Carburetor. A. G. Dowell. 1,750,349; Mar. 11.
Carburetor. C. N. Pogue. 1,750,354; Mar. 11.
Carburetor. W. Scott. 1,749,893; Mar. 11.
Carburetor air control. W. P. Cousino. 1,749,873; Mar. 11.
Carburetor for internal-combustion engines. H. Weslake. 1,750,376; Mar. 11.
Carburetor, Throttle-pump. C. H. Kirby. 1,750,109; Mar. 11.
Card-controlled machine, Perforated-. J. R. Peirce. 1,750,191; Mar. 11.
Card, Shirt-display. H. Levey. 1,749,771; Mar. 11.
Carpets, Mechanical means for severing or trimming the edges of. A. F. McCollum. 1,750,535; Mar. 11.
Case: *See*—
Vanity case.
Cash register. B. M. Shipley. 1,749,960; Mar. 11.
Caster. W. F. Herold. 1,749,880; Mar. 11.
Caster, Furniture. J. Bergsten. 1,749,751; Mar. 11.
Cathode device, Incandescent-. H. C. Rentschler. 1,749,780; Mar. 11.
Cementing head. N. W. Wickersham. 1,750,143; Mar. 11.
Centrifugal machine. W. H. Bath. 1,750,154; Mar. 11.
Centrifugal machine. C. F. Meyer. 1,750,016; Mar. 11.
Centrifugal separator. E. A. Forsberg. 1,749,764; Mar. 11.
Chair: *See*—
Reenforcing-rod chair.
Chair construction. E. Kovac, jr. 1,750,409; Mar. 11.
Check detector. H. B. Woods. 1,749,792; Mar. 11.
Chemical, Gas-generating. B. C. Goss. 1,750,101; Mar. 11.
Child's seat. B. C. Silver. 1,750,435; Mar. 11.
Chloride, Manufacture of anhydrous magnesium. K. Staib. 1,749,854; Mar. 11.
Chuck, Automatic. E. W. Prigan. 1,750,023; Mar. 11.
Chute, Differential helical. R. F. Wood and E. A. Heckler. 1,750,081; Mar. 11.
Cigarette extinguishing and crushing device. C. Ducas. 1,750,164; Mar. 11.
Cigarette - packing machine. G. Meyer - Jagenberg. 1,750,018; Mar. 11.
Cinematograph. Projection apparatus. J. S. Nairn. 1,750,020; Mar. 11.
Cinematographic titles, headlines, announcements, and the like, Producing. J. J. F. Stock and P. Efing. 1,749,961; Mar. 11.
Circuit breaker. A. Corbett. 1,750,298; Mar. 11.
Circuit-control apparatus, Electric-. J. B. Long. 1,750,615; Mar. 11.
Circuit controller. H. C. Silent. 1,749,851; Mar. 11.
Circuit-controlling device, Automatic electric-. T. L. M. Millar. 1,749,775; Mar. 11.
Circuit element for radio receiving sets, Variable-. F. K. Vreeland. 1,749,930; Mar. 11.
Circuit maker and breaker. H. D. Groh. 1,750,517; Mar. 11.
Circuit regulator, Railway signaling track-. S. M. Lucas. 1,750,233; Mar. 11.
Clamp: *See*—
Galley clamp. Mold-form clamp.
Clasp for foldable extension devices. W. J. Roy. 1,750,133; Mar. 11.
Cleaner: *See*—
Boiler cleaner.
Cleaning appliance, Nail-. W. I. and V. Wrightson. 1,750,451; Mar. 11.
Cleaning machine, Mold-. H. J. Hoenes. 1,750,470; Mar. 11.
Cleaning, wetting, and emulsifying. W. Schrauth. 1,750,198; Mar. 11.
Cleated ground wheel. C. C. Worthington. 1,750,145; Mar. 11.
Clock, Astronomical. M. N. Bulka. 1,750,505; Mar. 11.
Clock, Parking. B. F. Hutches, jr. 1,749,977; Mar. 11.
Closure for nonrefillable bottles. A. Hafermann. 1,750,591; Mar. 11.
Closure for tractor trailer vehicles, Flexible. F. C. McManus. 1,750,186; Mar. 11.
Clothespin bag. W. N. Willis. 1,749,992; Mar. 11.
Clutch, Positive-position timing. A. R. Mason. 1,750,115; Mar. 11.
Coaster. T. H. Sloan. Des. 80,698; Mar. 11.
Coating and drying apparatus. R. J. Emmert. 1,750,313; Mar. 11.
Coating composition. J. V. Reardon. 1,749,923; Mar. 11.
Cobalt cyanate with a tertiary base, Compound of. T. L. Davis. 1,750,160; Mar. 11.
Coding and decoding. Apparatus for selective verbatim. H. R. Barnett. 1,749,933; Mar. 11.
Coffee-machine set, Express. A. Torriani. 1,750,068; Mar. 11.
Coil, Reactance. F. J. Zamboni. 1,750,149; Mar. 11.
Composition article, Molded. H. D. Geyer. 1,750,302; Mar. 11.
Composition containing chlor rubber. C. Ellis. 1,750,583; Mar. 11.
Composition of matter and employing same. C. M. Carson. 1,750,460; Mar. 11.
Composition of matter for coloring flames. H. G. Tanner. 1,750,871; Mar. 11.
Compound hook. C. W. Bliss. 1,749,871; Mar. 11.
Compressors, System and method of lubricating. E. T. Williams. 1,750,293; Mar. 11.
Concrete joint. J. N. Heltzel. 1,750,105; Mar. 11.
Condensation product of the perimidone series, New. W. Mieg and R. Heidenreich. 1,749,955; Mar. 11.
Condenser. R. B. Benjamin. 1,749,967; Mar. 11.
Condenser, Electrical. H. R. Van Deventer. 1,750,374; Mar. 11.
Condenser, Variable. W. Dubilier. 1,750,893; Mar. 11.
Conduit, Wall. H. N. Putnam. 1,750,491; Mar. 11.
Cone cup, Rolled-edge. C. Barbieri. 1,750,454; Mar. 11.
Connecter, Artificial-limb. E. Collins. 1,750,218; Mar. 11.
Connecter, Electrical. P. F. Williams. 1,749,790; Mar. 11.
Connection for boiler furnaces, Steam. J. W. Dyar. 1,749,909; Mar. 11.
Container, Easy-opening. C. J. Aulbach and W. F. Punte. 1,750,380; Mar. 11.
Container for butter tubs or the like, Protecting. R. G. Wichner. 1,750,204; Mar. 11.
Container, Liquid. L. J. Stern. 1,750,334; Mar. 11.
Container, Packing. G. and R. Stabernack. 1,750,545; Mar. 11.
Container, Reserve dispensing. O. Willumsen. 1,750,205; Mar. 11.
Container, Shipping. I. Warner. 1,750,074; Mar. 11.
Control apparatus. E. Willheim. 1,750,078; Mar. 11.
Control device, Expression-. G. A. Forsberg. 1,750,261; Mar. 11.
Control head closure, Hydraulic-. S. S. Bradshaw and C. A. Martindale. 1,750,211; Mar. 11.
Control system. C. A. Martin. 1,750,481; Mar. 11.
Control system, Automotive. F. S. Broadhurst. 1,750,159; Mar. 11.
Controlled operating mechanism, Reverse-. D. C. Sherman. 1,749,783; Mar. 11.
Conveyer. H. E. Partridge. 1,750,426; Mar. 11.
Conveyer belt, Sectional. F. N. Woodman. 1,749,932; Mar. 11.
Conveyer-driving mechanism. F. E. Smith. 1,749,852; Mar. 11.
Conveyer or elevator, Endless. J. Parker. 1,750,425; Mar. 11.
Cooker, Steamer. L. J. Hois. 1,750,596; Mar. 11.
Cooking device, Miniature steam-. L. H. Grotheer. 1,750,265; Mar. 11.
Cooling apparatus, Air-. G. A. Metzger. 1,750,047; Mar. 11.
Corn-husking mechanism. H. Synck. 1,750,546; Mar. 11.
Corn popper. J. G. LePere. 1,749,916; Mar. 11.
Corn-pulp extractor. M. Austin. 1,750,210; Mar. 11.
Cotton-boll picker. A. B. McDonald. 1,750,536; Mar. 11.
Cotton picker. H. N. Berry. 1,750,034; Mar. 11.
Cotton picker. J. A. Streun. 1,750,489; Mar. 11.
Cotton picker, Air-blast. W. A. Preston. 1,750,541; Mar. 11.
Counter-molding machine. J. H. Stewart. 1,750,438; Mar. 11.
Counter, Weighing. B. H. Tingley. 1,749,788; Mar. 11.
Counting machine, Coin-. C. L. Downey. 1,750,578; Mar. 11.
Coupler, Car. M. Forchheimer. 1,750,314; Mar. 11.
Coupler-operating device, Car-. C. L. Howard. 1,750,308; Mar. 11.
Coupler, Train air and steam line. J. L. Francis. 1,750,398; Mar. 11.
Coupling: *See*—
Pipe coupling.
Covering for vanity cases, coin banks, and other receptacles, Decorative. D. H. Zell. 1,749,795; Mar. 11.
Coverings, Apparatus for making mottled floor. N. L. Campbell. 1,750,567; Mar. 11.
Crank-case-venting means for pneumatic tools. A. Levedahl and R. A. Norling. 1,750,013; Mar. 11.
Crank shaft. H. Ford. 1,749,807; Mar. 11.
Cravat attachment. S. J. Lindskog. 1,750,232; Mar. 11.
Crown block. G. J. Cormier. 1,749,906; Mar. 11.
Cultivator. A. D. Gallagher. 1,749,974; Mar. 11.
Cup: *See*—
Cone cup.
Curette, Operating. I. C. Mierley. 1,749,919; Mar. 11.
Current device, Space-. W. J. Brown. 1,750,886; Mar. 11.
Current motor, Alternating-. A. P. Myer. 1,750,240; Mar. 11.
Current motor mechanism, Slow-speed alternating-. P. Mayer. 1,750,237; Mar. 11.
Currents, Indicating device for high-frequency. A. Nyman. 1,750,326; Mar. 11.
Curtain and portiere rod. J. H. Boye. Des. 80,673; Mar. 11.
Curtain track. E. J. Vallen. 1,750,444–5; Mar. 11.
Cushion wheel. A. A. Korn. 1,750,408; Mar. 11.
Cutter: *See*—
Egg cutter. Pipe cutter.
Folder cutter.
Cutter head. L. C. Johnston. 1,750,474; Mar. 11.

Cutter relief mechanism for machine tools. W. E. Sykes. 1,750,028; Mar. 11.
Cutting device for transversely cutting moving paper webs. E. Lichtenstein. 1,750,531; Mar. 11.
Cutting machine, Fish-. A. R. Rogers. 1,750,431; Mar. 11.
Davenport or like article. W. F. Christiansen. Des. 80,675; Mar. 11.
Denerator. S. Brown. 1,750,035; Mar. 11.
Deflecting system. J. W. Legg. 1,750,275; Mar. 11.
Dehyration, Reducing temperature by. W. L. Fleisher. 1,749,763; Mar. 11.
Derailing tubs, trucks, and the like, in the event of their attaining an excessive speed. C. O. Deacon. 1,749,803; Mar. 11.
Die for flange bearings, Sizing. A. H. Valentine and J. C. Lemming. 1,750,290; Mar. 11.
Diestock. I. W. Nonneman. 1,750,241; Mar. 11.
Differential mechanism. H. E. Altgelt. 1,749,964; Mar. 11.
Dilator. W. J. Kirk. 1,750,272; Mar. 11.
Direction indicator. F. A. Daechsel. 1,749,[illegible]4; Mar. 11.
Desk accessory, Sectional. W. I. Cubberley. 1,750,575; Mar. 11.
Desk distributor set. W. I. Cubberley. 1,750,576; Mar. 11.
Detector: *See*—
Check detector.
Disks, Method and apparatus for rolling tapered wheel. J. W. Hughes. 1,750,176; Mar. 11.
Distributing apparatus. E. C. Umbreit. 1,750,552; Mar. 11.
Doll. L. Herman. 1,750,404; Mar. 11.
Door and mirror frame, Cabinet. E. A. Smith. 1,750,866; Mar. 11.
Door for silos. L. D. Houghtaling. 1,750,600; Mar. 11.
Door, Garage. B. B. Hoover. 1,750,042; Mar. 11.
Door-holding means. D. R. Lasier. 1,749,979; Mar. 11.
Door structure or the like, Metallic. J. P. Pearson. 1,750,428; Mar. 11.
Door, Warehouse. R. S. Peelle. 1,749,985; Mar. 11.
Dough, Apparatus for handling. J. C. Gordon. 1,750,002; Mar. 11.
Draft attachment, Auxiliary. W. A. Noel. 1,749,839; Mar. 11.
Drain fitting. W. S. Fleming. 1,749,878; Mar. 11.
Drapery hook. B. B. Fick. 1,750,513; Mar. 11.
Drawer. L. F. Dettenborn. 1,749,937; Mar. 11.
Drawer slide. P. M. Wege. 1,750,448; Mar. 11.
Dredgers, Hold for. F. Ewig. 1,750,095; Mar. 11.
Drill stems, Making. G. A. Montgomery. 1,749,981; Mar. 11.
Drying apparatus. H. Haas. 1,750,003; Mar. 11.
Drying device, Hand and face. P. Emmrich. 1,750,094; Mar. 11.
Dyes, Azo. R. Stüsser. 1,750,067; Mar. 11.
Dyestuff paste, Sulphur. E. Voetter. 1,749,963; Mar. 11.
Dyestuffs derived from amino-acylamino-salicyl-diphenylsulphones, Azo. W. Neelmeier. 1,749,836; Mar. 11.
Dyestuffs of the anthraquinone series, Acid wool. G. Kränzlein, E. Kronholz, and F. Roemer. 1,750,227; Mar. 11.
Dyestuffs of the anthraquinone series, Acid wool. G. Kränzlein, E. Kronholz, and F. Römer. 1,750,228; Mar. 11.
Economizer for use with furnaces. J. G. Strock. 1,750,203; Mar. 11.
Egg cutter. P. Michelon and G. Fugier. 1,750,484; Mar. 11.
Electric accumulator. H. Leitner. 1,750,230; Mar. 11.
Electric-current connection. J. Lofgren. 1,750,014; Mar. 11.
Electric currents, Apparatus for rectifying alternating. L. H. Peter. 1,750,123; Mar. 11.
Electric machine, Dynamo-. J. D. Wallace and C. H. Landis. 1,750,446; Mar. 11.
Electric motor. A. E. Oswald. 1,750,122; Mar. 11.
Electric portable cluster, Adjustable. M. B. Bowen. 1,749,799; Mar. 11.
Electric switch. H. E. Norviel. 1,750,280; Mar. 11.
Electric switch house, Portable metal. M. B. Wood. 1,750,250; Mar. 11.
Electric terminal block. L. W. Serrell. 1,750,246; Mar. 11.
Electrical apparatus, Reducing hysteresis effects in. H. L. Tanner. 1,749,897; Mar. 11.
Electrical apparatus, Reducing the effects of residual magnetism in. H. L. Tanner. 1,749,929; Mar. 11.
Electrical contact with crystalline cuprous oxide, Securing good. W. T. Anderson, jr., and L. F. Bird. 1,749,995; Mar. 11.
Electrical element. H. D. Ralston. 1,750,492; Mar. 11.
Electrical system of distribution. E. J. Blake. 1,750,156; Mar. 11.
Electromagnetic controlling apparatus. J. Pfretzschner. 1,749,842; Mar. 11.
Electron-discharge device. N. P. Hinton. 1,750,307; Mar. 11.
Electroplating process. R. B. P. Crawford and R. D. Snyder. 1,750,092; Mar. 11.
Electrotype plates, Cleaning. W. R. Lakeman. 1,749,822; Mar. 11.
Elevator. F. A. Browne. 1,749,872; Mar. 11.
Engine: *See*—
Internal-combustion engine. Two-cycle engine.
Engine acting as a pump, Heat. J. R. F. M. Lasmolles. 1,750,229; Mar. 11.
Engine-lubrication means. J. R. Mares. 1,750,235; Mar. 11.
Engines, Gas-saving attachment for internal-combustion. H. F. Beeman. 1,750,086; Mar. 11.
Engines with an ignition chamber, Device for operating internal-combustion. E. Herkt. 1,750,403; Mar. 11.
Engraving machine. P. M. Henkes. 1,750,594; Mar. 11.
Envelope-opening machine. A. Weiss. 1,750,838; Mar. 11.
Evaporator. W. Sieck, jr. 1,750,434; Mar. 11.
Examining table. H. S. Allison. 1,749,867; Mar. 11.
Excavating and loading machine. J. H. Blair. 1,749,968; Mar. 11.
Excavating dippers and the like, Teeth for. W. E. Miley. 1,750,116; Mar. 11.
Exercising apparatus. J. M. Thomson and P. Hardy. 1,750,549; Mar. 11.
Expanding brake. N. R. Brownyer. 1,749,901; Mar. 11.
Extension device. E. G. Carlson. 1,749,997; Mar. 11.
Extractor: *See*—
Corn-pulp extractor.
Eye-dropper and eyewash cup, Combined. L. T. La Paugh and E. C. Shea. 1,750,530; Mar. 11.
Fabric: *See*—
Ply woven fabric.
Fabric elements, Apparatus for coating defined areas of. A. B. Mullin. 1,749,921; Mar. 11.
Fabric, Process and machine for knitting plated. H. E. Houseman. 1,750,008; Mar. 11.
Fastener for women's apparel. H. M. Gilmore. 1,750,588; Mar. 11.
Fastener-setting machine. R. D. Taylor. 1,749,856; Mar. 11.
Fastening, Sheet-metal. C. D. Cannon. 1,749,903; Mar. 11.
Faucet, Compound. G. Muller, jr. 1,750,485; Mar. 11.
Feeding device, Animal-. A. V. Rowe. 1,750,025; Mar. 11.
Feeding device, Automatic. F. D. Chapman. 1,749,801; Mar. 11.
Feeding hopper, Chicken-. G. N. Ebel. 1,750,580; Mar. 11.
Fermentation apparatus, Automatic. A. P. Harrison. 1,750,267; Mar. 11.
Fibers and textile fabrics, Treating crude. R. H. Pott. 1,749,480; Mar. 11.
File follower. F. A. Schmitz. 1,750,544; Mar. 11.
Filling-station machine. C. F. Christopher. 1,750,389; Mar. 11.
Filter. G. L. Walsh. 1,750,073; Mar. 11.
Filter and upflow water softener, Combined. W. J. Kenney. Re17,621; Mar. 11.
Filtering device. C. A. and P. X. McGeehan. 1,750,185; Mar. 11.
Fingerprint machine and method. C. F. Glass. 1,750,099–100; Mar. 11.
Fire extinguisher. F. T. Matthews. 1,750,184; Mar. 11.
Fire wall. M. Liptak. 1,750,532; Mar. 11.
Firing system, Terra-cotta. A. H. Sheffield. 1,749,988; Mar. 11.
Fish lure. C. T. Pflueger. 1,750,604; Mar. 11.
Floating station. R. R. Randell. 1,749,958; Mar. 11.
Flush tank. J. B. Paul. 1,750,427; Mar. 11.
Flying machine. T. M. Finley. 1,750,097; Mar. 11.
Fodder cutter. S. U. Hamaker. 1,750,266; Mar. 11.
Foot rest for stopping drills. G. G. Marsh. 1,750,415; Mar. 11.
Form, Collapsible tire-building. J. E. Palmer. 1,749,922; Mar. 11.
Forms in aqueous bodies, Method of and apparatus for setting precast. F. B. Smith. 1,750,137; Mar. 11.
Fractionating apparatus. E. H. Harris. 1,750,306; Mar. 11.
Frame: *See*—
Door and mirror frame. Truck side frame.
Photo-engraver's printing frame.
Franking machine. W. Friedrichs. 1,750,399; Mar. 11.
Fuel, Apparatus for binding pulverulent. J. Türke. 1,750,609; Mar. 11.
Fuel-charge moistener. A. C. Runge and E. C. Badger. 1,749,924; Mar. 11.
Fuel-supplying device. J. C. Groff. 1,749,975; Mar. 11.
Fuel to furnaces, Apparatus for supplying powdered. E. Hermsdorf. 1,749,817; Mar. 11.
Furnace: *See*—
Boiler furnace.
Furnace. J. W. Dyar. 1,749,907; Mar. 11.
Furnace or oven arches, Construction of. A. C. Ragoucy. 1,750,355; Mar. 11.
Furnace wall. D. S. Jacobus. 1,749,768; Mar. 11.
Furnaces, Nipple construction for boiler. J. W. Dyar. 1,749,910; Mar. 11.
Furniture construction, Metal-. R. Bradshaw. 1,750,457; Mar. 11.
Furniture, Making printers' metal. A. G. Stevenson. 1,749,855; Mar. 11.
Fuselage or body, Metal. E. B. Carns. 1,749,757; Mar. 11.
Galley clamp. F. J. Metz. 1,750,324; Mar. 11.
Game device. O. H. White. Des. 80,714; Mar. 11.
Garage construction. H. L. Woolfenden. 1,749,793; Mar. 11.

Gas mixer. C. T. Howson. 1,749,914; Mar. 11.
Gas radiant heater. A. Steffen. Des. 80,701–2; Mar. 11.
Gases, Apparatus for removing dust from. A. Modave. 1,749,920; Mar. 11.
Gate. J. A. Stripling. 1,750,066; Mar. 11.
Gate for hydraulic turbines, Wicket. E. U. Gibbs and G. A. Jessop. 1,750,400; Mar. 11.
Gauge: *See*—
Water gauge.
Gauging instrument. B. O. Loeser. 1,749,980; Mar. 11.
Gear. A. Maier. 1,749,828; Mar. 11.
Gear clamp for towed automobiles, Steering-. E. W. Holmes and E. E. Cline. 1,750,399; Mar. 11.
Gear, Composite. H. R. Moyer. 1,750,278; Mar. 11.
Gear, Draft. F. B. Bell and O. R. Wikander. 1,750,455; Mar. 11.
Gear for high-speed suspension cars, Running. C. Stedefeld. 1,750,064; Mar. 11.
Gear, Friction. R. Erban. 1,750,168; Mar. 11.
Gear shift. A. C. Nickell, jr. 1,749,837; Mar. 11.
Gear-shift levers for automobiles, Grip for. A. L. Shirley. Des. 80,697; Mar. 11.
Gear-shifting mechanism. F. J. Straub and J. T. Weinmeierl. 1,749,962; Mar. 11.
Gear-shifting mechanism for power transmissions. O. E. Mark. 1,750,236; Mar. 11.
Gear teeth, Cutting. W. E. Sykes. 1,750,029; Mar. 11.
Gear, Transmission. S. O. White. 1,750,292; Mar. 11.
Gearing, Frictional. R. Erban. 1,750,167; Mar. 11.
Gearing, Power-transmission. D. E. Scholes. 1,749,892; Mar. 11.
Gears, Method of and apparatus for cutting toothed. P. Böttcher, jr. 1,750,284; Mar. 11.
Generator of short electric waves. A. Essau. 1,750,000; Mar. 11.
Glare shields, Operating mechanism for. C. W. Woodhead. 1,750,450; Mar. 11.
Glass and producing it. B. Long. 1,749,823; Mar. 11.
Glass sheets, Manufacture of. L. Boudin. 1,749,798; Mar. 11.
Glider, Hydropneumatic. R. Haugan. 1,750,593; Mar. 11.
Glove. K. E. Jensen. 1,750,473; Mar. 11.
Glove. I. Marinsky. 1,750,181–3; Mar. 11.
Grading machine. D. E. Gray. 1,750,516; Mar. 11.
Grain, Conditioning. J. W. Cornelius. 1,750,508; Mar. 11.
Grain into crushed malt and the like, Apparatus for grinding. J. Schaefer. 1,749,925; Mar. 11.
Grate, Traveling. L. Steinmüller. 1,750,065; Mar. 11.
Grating. P. E. Feltes. 1,750,029; Mar. 11.
Grating, Floor. H. H. Bunker. 1,749,902; Mar. 11.
Grease feeder. W. L. Morris. 1,749,830; Mar. 11.
Grease gun. H. Albertine. 1,750,151; Mar. 11.
Grease gun. K. N. Willmore. 1,750,378; Mar. 11.
Grease gun. C. L. Zabriskie. 1,750,148; Mar. 11.
Grease gun, High-power. H. Albertine. 1,750,150; Mar. 11.
Grinder, Feed. H. E. Luebbers. 1,749,954; Mar. 11.
Grinding mill. T. Bragard. 1,750,088; Mar. 11.
Guard member for mop handles. F. Schweigert. 1,750,333; Mar. 11.
Gum from locust beans, Producing. A. Müller. 1,749,883; Mar. 11.
Gun-feeding mechanism. L. S. Marsh. 1,750,112; Mar. 11.
Ham bag. L. A. O'Lena. 1,749,776; Mar. 11.
Hammock. E. G. Reeder. 1,749,888; Mar. 11.
Hand brake, Railway-car. A. F. Klasing. 1,749,948; Mar. 11.
Handle. E. A. Bolinder. 1,749,752; Mar. 11.
Handling, holding, storing, and displaying rolls of linoleum, fabric, and other material in the form of rolls. H. Elliott. 1,750,582; Mar. 11.
Handsaw. W. Hückinghaus. 1,750,472; Mar. 11.
Hanger for articles to be plated. L. Lichtman. 1,749,952; Mar. 11.
Harbor, Floating. C. W. King. 1,750,224; Mar. 11.
Harvester, Corn. J. M. Baier. 1,749,749; Mar. 11.
Harvester, Potato. E. Sanders. 1,750,362; Mar. 11.
Hat. M. Treiman. Des. 80,716; Mar. 11.
Header for water-tube boilers. W. H. Armacost. 1,750,254; Mar. 11.
Headlight, Dirigible. A. B. Welch. 1,750,077; Mar. 11.
Heat-medium-control device, Automatic. T. W. A. Rusche. 1,749,850; Mar. 11.
Heater: *See*—
Water heater.
Heater. T. D. Casserly. 1,749,904; Mar. 11.
Heating device, Electric. E. A. Stanger. 1,750,495; Mar. 11.
Heating means, Apparatus for regulating a. C. M. Akins. 1,750,085; Mar. 11.
Heating or vulcanizing press, Multiple. J. R. Gammeter. 1,750,263; Mar. 11.
Helmet, Fireman's. M. D. Collins. 1,749,998; Mar. 11.
Hitch for mowing machines and the like. C. E. Gates. 1,750,514; Mar. 11.
Hog house. A. V. Rowe. 1,750,026; Mar. 11.
Holder and ash receiver. Combined cigarette. L. E. Ford. Des. 80,686; Mar. 11.
Holder, Card. A. A. Beyer. Des. 80,668–9; Mar. 11.
Holder, Christmas-tree. J. C. Smith. 1,750,367; Mar. 11.
Holder, Cloth. A. Deinstein. 1,750,463; Mar. 11.
Holder, Dish. H. Carew. 1,750,568; Mar. 11.
Holder, Door. C. Comstock. 1,749,905; Mar. 11.
Holder, Emblem. C. S. Price. 1,750,605; Mar. 11.
Holder for tank cars, Placard. W. E. Cooper and F. K. Habernicht. 1,750,091; Mar. 11.
Holder for tank cars, Reversible placard. S. L. Joiner. 1,749,943; Mar. 11.
Holder for thermionic tubes. W. W. Robinson. 1,750,053; Mar. 11.
Holder, Protective. P. Müller. 1,750,119; Mar. 11.
Holster, Revolver. W. S. Swift. 1,750,139; Mar. 11.
Hook: *See*—
Compound hook. Drapery hook.
Hook and weed guard, Combined. J. E. Pflueger. 1,750,243; Mar. 11.
Horn, Electric. F. F. Dorsey. 1,750,348; Mar. 11.
Hosiery turning and inspecting form. H. Hemmerich. 1,750,005; Mar. 11.
House: *See*—
Electric switch house. Hog house.
Housing stay and support device. E. F. Smith and G. K. Wilson. 1,750,061; Mar. 11.
Hub cap. M. H. Toncray. Des. 80,710–11; Mar. 11.
Humidifying apparatus. J. W. Chason. 1,750,569; Mar. 11.
Hygrometer, Electric. W. Lubach. 1,749,826; Mar. 11.
Ice-cream-cone-making machine. J. A. Tallent. 1,750,497; Mar. 11.
Ice-delivery device. R. H. Roark. 1,749,843; Mar. 11.
Inclosure for automobiles. J. T. Gore. 1,750,040; Mar. 11.
Indicator: *See*—
Direction indicator.
Insect trap. J. L. Disney. 1,750,163; Mar. 11.
Insole-holding device. M. V. Bresnahan. 1,749,900; Mar. 11.
Instrument panel. D. E. Keeney. 1,750,601; Mar. 11.
Insulating material. J. E. Gross. 1,750,305; Mar. 11.
Insulation-removing process. H. H. Heller. 1,749,939; Mar. 11.
Insulator, Cable-support. J. Kaiser. 1,750,318; Mar. 11.
Insulator, Electric. J. F. Phillips. 1,750,352; Mar. 11.
Insulator rack. W. D. Kyle. 1,749,915; Mar. 11.
Internal brake. L. Blackmore. 1,750,611; Mar. 11.
Internal-combustion engine. A. E. L. Chorlton. 1,750,570–1; Mar. 11.
Internal-combustion engine. C. Y. Knight. 1,750,321; Mar. 11.
Internal-combustion engine. W. A. Sorg. 1,750,063; Mar. 11.
Internal-combustion engine, Rotary. T. A. Baker. 1,750,502; Mar. 11.
Internal-combustion engine, Two-stroke. W. Ulrich. 1,749,859; Mar. 11.
Iron and steel articles and making the same, Coated. E. M. Jones. 1,750,270; Mar. 11.
Iron for boxes, Corner. R. M. Wildberg. 1,750,556; Mar. 11.
Jack: *See*—
Automobile jack. Pumping jack.
Lasting jack.
Jacking of road vehicles. W. E. Evans. 1,750,584; Mar. 11.
Joint: *See*—
Concrete joint. Rail joint.
Joint-filling machine. J. N. Heltzel. 1,750,104; Mar. 11.
Joint-producing machine. J. N. Heltzel. 1,750,107; Mar. 11.
Journal-box construction. H. C. Dreibuss. 1,749,759; Mar. 11.
Key-cutting machine. M. Falk. 1,750,218; Mar. 11.
Kiln and operating same, Tunnel. F. A. J. Fitz Gerald and J. Kelleher. 1,749,762; Mar. 11.
Kiln, Continuous. C. B. Winser. 1,749,866; Mar. 11.
Knife attachment. J. De Bracht. 1,750,577; Mar. 11.
Knitting machines, Shock-absorbing carrier-rod stop mechanism for full-fashioned-. C. F. Meyer and G. Bitser. 1,750,017; Mar. 11.
Knitting plated fabric. H. E. Houseman. 1,750,007; Mar. 11.
Kraut, Treating. O. H. Hansen. 1,750,467; Mar. 11.
Lamp changer. C. C. Caufield. 1,749,753; Mar. 11.
Lamp, Contact-resistance. C. F. Lorens. 1,749,772; Mar. 11.
Lamp for alternating currents, Mercury-vapor. R. A. F. Matouch. 1,750,482; Mar. 11.
Lamp, Water-cooled mercury-vapor arc. W. T. Anderson, jr. 1,749,994; Mar. 11.
Land breaker and plow. A. C. Steeves. 1,750,202; Mar. 11.
Lasting jack. J. H. Flink. 1,750,169; Mar. 11.
Latch, Casement-window. W. S. Oglesby. 1,750,423; Mar. 11.
Lathe control, Automatic. W. F. Groene. 1,750,589; Mar. 11.
Lathes, Geared headstock for. W. B. Whipp. 1,750,555; Mar. 11.
Lead oxide in a state of high dispersion, Obtaining. L. Schertel and W. Lüty. 1,749,781; Mar. 11.
Leather composition. S. H. Lifton. 1,750,231; Mar. 11.
Legging, Fireproof. E. L. Wheeler. 1,749,789; Mar. 11.
Lettering device. J. T. Janosek. 1,750,309; Mar. 11.
Life preserver. M. Popescu. 1,750,282; Mar. 11.
Life-saving device for sunken ships. J. Kardos and D. Fischer. 1,749,821; Mar. 11.
Lifter. H. and A. Ahlin. 1,749,796; Mar. 11.
Lifting device, Air-actuated. E. B. Hollister. 1,750,597; Mar. 11.

Light fixture, Electric-. G. J. Henry. 1,750,006; Mar. 11.
Light switch, Luminous electric-. M. Holpfer. 1,749,881; Mar. 11.
Lighter, Pocket. H. S. Strausser. Des. 80,707; Mar. 11.
Lighting device, Pocket. T. Schild. 1,749,782; Mar. 11.
Lighting fixture. H. Aglow. Des. 80,666; Mar. 11.
Link mat. J. H. Caldwell. 1,750,388; Mar. 11.
Liquid-dispensing machine, Automatic. R. E. Collins. 1,749,970; Mar. 11.
Liquids, Device for vaporising. J. D. Lalor. 1,750,602; Mar. 11.
Loader, Hay. W. O. Smith. 1,749,785; Mar. 11.
Loading or decking device for automobiles in freight cars. A. Copany. 1,749,758; Mar. 11.
Lock: *See*—
Register lock.
Lock and key structure. F. Pucek. 1,750,542; Mar. 11.
Lock switches. H. E. Norviel. 1,750,538; Mar. 11.
Locking bolt, Wheel-rim. L. V. Nogueira. 1,749,984; Mar. 11.
Locking device. W. F. Zimmermann. 1,750,340; Mar. 11.
Locking device, Nut-. A. Kaschtofsky. 1,750,523; Mar. 11.
Loom. J. C. Brooks. 1,750,385; Mar. 11.
Loom for weaving fiber reed. G. E. Nordstrom. 1,749,840; Mar. 11.
Loom let-off mechanism, Driving-rod connection for. T. E. Reid. 1,750,606; Mar. 11.
Looms, Take-up device for ribbon. G. Lüdorf. 1,750,533; Mar. 11.
Looms, Transfer and feeler control mechanism for shuttle-changing. A. J. Chevrette. 1,749,934; Mar. 11.
Lubricant. E. A. Rudigier. 1,750,134; Mar. 11.
Lubricating device. A. Huguenin. 1,749,941; Mar. 11.
Lug, Bath-fixture. W. J. Woolley. 1,749,794; Mar. 11.
Machine fixture, Balancing-. C. E. Summers. 1,750,608; Mar. 11.
Machine for assembling book matches. L. E. Parker. 1,750,281; Mar. 11.
Machine for banding a strip and cutting the latter between the bands to provide banded pieces. A. R. Selden. 1,750,059; Mar. 11.
Machine for cutting gear teeth. W. E. Sykes. 1,750,030; Mar. 11.
Machine for drying sheet material. A. Samuels. 1,750,055; Mar. 11.
Machine for forming articles. A. C. Hoover. 1,750,471; Mar. 11.
Machine for generating gear teeth. W. E. Sykes. 1,750,031; Mar. 11.
Machine for kneading, crushing, and similar operations. B. Zettergren. 1,750,558; Mar. 11.
Machine for making uniform, Concrete. J. F. Robb. 1,750,244; Mar. 11.
Machine for spinning, doubling, twisting, and the like yarns, fibers, and the like. T. E. Andrew and M. Langstreth. 1,750,153; Mar. 11.
Machine for treating tomatoes. H. B. Lewis. 1,750,414; Mar. 11.
Mail box. A. C. Wood. 1,750,339; Mar. 11.
Massaging machine. N. E. Goodrich. 1,750,303; Mar. 11.
Mat: *See*—
Link mat.
Matches from match-making machines, Device for collecting finished. P. W. Dietmann. 1,750,392; Mar. 11.
Material-handling apparatus. G. H. Gilman. 1,750,316; Mar. 11.
Materials of different specific gravities, Method and apparatus for separating. T. M. Chance and H. O. Staples. 1,750,090; Mar. 11.
Measuring instrument, Electrical. A. Callsen. 1,750,259; Mar. 11.
Meat-sawing machine. W. Grant and G. W. Limebaugh. 1,750,223; Mar. 11.
Media in equal proportions, Method and apparatus for mixing flowing. H. Groeck and F. Jordan. 1,749,811; Mar. 11.
Metal articles, Method and apparatus for shaping sheet-. O. J. Groehn. 1,749,913; Mar. 11.
Metal refiner, Deep-. W. M. Connor. 1,750,390; Mar. 11.
Metal surfaces, Etching and decorating. J. C. McFarland. 1,750,418; Mar. 11.
Metal with corncob material, Drying, cleaning, and polishing sheet. C. C. Truax. 1,750,498; Mar. 11.
Metering system, Remote-. S. Ostrolenk. 1,750,242; Mar. 11.
Mill: *See*—
Grinding mill.
Mill for tapered disks, Rolling. A. Martin. 1,750,480; Mar. 11.
Milling and drilling machine, Combined. G. Melling. 1,750,046; Mar. 11.
Mirror, Automobile. W. K. Anderson. 1,749,868; Mar. 11.
Mirror, Dental. C. G. A. Rydman. 1,750,194; Mar. 11.
Mixer: *See*—
Gas mixer.
Modulator for radiotelephones. H. H. C. Dunwoody. 1,750,579; Mar. 11.
Mold: *See*—
Pipe mold.
Mold and core for line-casting machines. E. W. Johnson. 1,749,770; Mar. 11.
Mold-form clamp. H. M. Kishpaugh. 1,750,525; Mar. 11.
Molding apparatus. B. L. Elwell. 1,750,217; Mar. 11.
Molding apparatus. N. L. Olson. 1,750,424; Mar. 11.
Mole and rat trap, Combined. C. M. Beggs. 1,749,870; Mar. 11.
Motor: *See*—
Current motor. Electric motor.
Motor control, System of. W. Deans and H. J. Kaufman. 1,750,161; Mar. 11.
Motor stand. H. C. Spahn. 1,750,199; Mar. 11.
Motor-starting switch. M. C. Terry. 1,750,336; Mar. 11.
Motor-supporting stand. H. C. Spahn. 1,750,200; Mar. 11.
Mower. C. Pearson. 1,750,049; Mar. 11.
Mower and windrower, Combined. C. E. White. 1,750,083; Mar. 11.
Muffler. C. O. Guernsey. 1,750,590; Mar. 11.
Music stand. M. W. Krauth. 1,750,278; Mar. 11.
Musical instrument. G. Cloetens. 1,750,572; Mar. 11.
Musical instrument. V. S. Truett and H. H. George. 1,750,069; Mar. 11.
Musical instruments, Eliminate noise in parts of record controlled. T. F. Cheek. 1,750,037; Mar. 11.
Needle, Embroidery. P. S. Kirby. 1,750,226; Mar. 11.
Nonskid device. M. J. Frambach. 1,750,093; Mar. 11.
Oil, Manufacture of lubricating. G. H. Taber, jr. 1,749,896; Mar. 11.
Oil, Refining used. J. C. Patrick. 1,750,350; Mar. 11.
Oils, Refining edible. R. B. Hill. 1,749,976; Mar. 11.
Oiler, Air-line. G. G. Tuttle. 1,750,070; Mar. 11.
Oiler, Rail and wheel flange. C. L. Emerson and P. E. Buettell. 1,749,876; Mar. 11.
Orchestra device, One-man. F. Wanek. 1,749,862; Mar. 11.
Ornament for drapery rods or the like, Center. W. E. Smith. Des. 80,699; Mar. 11.
Ornament for drapery rods or the like, End. W. E. Smith. Des. 80,700; Mar. 11.
Overshoe. W. MacPherson and E. W. Dunbar. 1,750,179; Mar. 11.
Overshoe and making the same. E. W. Dunbar. 1,750,165; Mar. 11.
Package. D. D. Brown. 1,750,258; Mar. 11.
Package for perishable medicated articles. A. D. Brush. 1,749,996; Mar. 11.
Packages, Facilitating the tying and sealing of. F. Killing. 1,750,476; Mar. 11.
Packing and method of construction, Metallic. C. Y. Knight. 1,750,320; Mar. 11.
Pad: *See*—
Truss pad.
Paint, varnish, and enamel and their production. W. F. Bleecker and E. A. Clark. 1,750,087; Mar. 11.
Paints, Producing permanent. N. Specht. 1,750,287; Mar. 11.
Paper-reeling machine. W. Okuura. 1,750,487; Mar. 11.
Parachute, Safety. F. Arnaiz. 1,749,965; Mar. 11.
Pavements, Laying bitumen. J. G. Tullis. 1,750,443; Mar. 11.
Pedestal bending machine. H. E. Harvey and E. K. Holmes. 1,750,103; Mar. 11.
Pen, Reservoir. T. Kovacs. 1,750,410; Mar. 11.
Pencil and lighter, Combined. W. P. Aron. 1,750,255; Mar. 11.
Perforator, Drum-controlled repeating. B. K. F. Ewald. 1,750,218; Mar. 11.
Petroleum products, Treatment of. F. B. Muhlenberg. 1,750,420; Mar. 11.
Phonograph pick-up. C. F. Goudy. 1,750,304; Mar. 11.
Phonograph stylus and sound box. A. E. Pasche. 1,750,351; Mar. 11.
Photo-engraver's printing frame. W. J. Adam. 1,750,253; Mar. 11.
Photography, Color. P. A. Richard. 1,750,358; Mar. 11.
Pick and dirt remover, Automatic construction. A. E. and U. G. Field and N. Harithas. 1,750,586; Mar. 11.
Picker: *See*—
Cotton-boll picker. Cotton picker.
Picture apparatus, Motion-. E. C. Fritts. 1,750,220; Mar. 11.
Picture apparatus, Motion-. J. Proksa. 1,749,779; Mar. 11.
Picture-graph machine. L. H. Hutchinson. 1,749,767; Mar. 11.
Piling and packing apparatus. A. D. Evans and J. K. Lamoree. 1,750,396; Mar. 11.
Pipe coupling. A. Kalo. 1,749,944; Mar. 11.
Pipe coupling, Automatic train-. J. Robinson. 1,749,845; Mar. 11.
Pipe cutter. W. W. Vosper. 1,749,861; Mar. 11.
Pipe mold, Bell-. C. S. Sorensen. 1,750,138; Mar. 11.
Pipe or analogous mouthpiece. C. Blossom. 1,750,503; Mar. 11.
Pipe wrench, Chain. W. C. Kress. 1,750,043; Mar. 11.
Piston. A. W. Pope, jr. 1,750,429; Mar. 11.
Piston and rings. W. H. Ragsdale. 1,750,356; Mar. 11.
Piston for internal-combustion engines. H. M. Rockwell. 1,750,127; Mar. 11.
Piston ring. W. S. Baker. 1,750,381; Mar. 11.
Piston ring. A. W. Morton. 1,749,831–2; Mar. 11.
Piston ring. D. M. Solenberger. 1,749,786; Mar. 11.
Piston ring. J. H. Stanfield. 1,749,894; Mar. 11.
Piston-ring-fitting machine. G. M. Sanders. 1,750,195; Mar. 11.
Piston-ring-spring machine. O. E. Szekely and R. H. Johnson. 1,749,895; Mar. 11.
Planer, Double-cylinder. W. H. Hall. 1,749,988; Mar. 11.
Plant-dusting machine. J. H. Wright. 1,750,147; Mar. 11.

Plate-finishing machine, Water-cooled. J. A. Isbell. 1,750,406; Mar. 11.
Plow, Rotary. L. Fonnesbeck. 1,750,219; Mar. 11.
Plug fitting, Combination filling and fusible. R. S. Taylor. 1,750,335; Mar. 11.
Ply woven fabric, Multiple-. R. Spencer. 1,750,493; Mar. 11.
Pocket for gloves and the like. I. Marinsky. 1,750,180; Mar. 11.
Polishing compound. O. V. Stewart. 1,750,288; Mar. 11.
Power appliance, Portable. P. A. Fisher. 1,749,806; Mar. 11.
Power coaster. J. J. Miller and W. Platt. 1,750,187; Mar. 11.
Power system. A. H. Candee. 1,750,297; Mar. 11.
Press: *See*—
Printing press.
Press. B. Bollman. 1,750,432; Mar. 11.
Pressing or molding means and method. E. V. Haffling. 1,749,813; Mar. 11.
Pressure head. J. F. Pulford. 1,750,543; Mar. 11.
Pressure-operated switch, Automatic. A. Aichele. 1,750,341; Mar. 11.
Printing apparatus, Step and repeat. E. Bassist. 1,750,294; Mar. 11.
Printing machine, Offset. F. Fischer. 1,750,587; Mar. 11.
Printing press. F. T. Wood. 1,750,557; Mar. 11.
Printing surface. P. Allman. 1,750,562; Mar. 11.
Projector systems, Heat elimination screen for. A. L. Schoen. 1,750,197; Mar. 11.
Propelling device. W. Boer. 1,750,382; Mar. 11.
Propelling mechanism for ships. S. Hammerstein. 1,749,815; Mar. 11.
Protective means, Head, nose, eye, and ear. H. E. Chambers. 1,750,036; Mar. 11.
Pulling-over machine. A. Neubert. 1,750,421; Mar. 11.
Pulverizing mountain-ash berries. P. Grube. 1,749,812; Mar. 11.
Pump. G. T. Ruston. 1,750,135; Mar. 11.
Pump, Fluid-operated. J. A. Wray. 1,750,146; Mar. 11.
Pump, Rotary. E. Caskey. 1,750,212; Mar. 11.
Pumping apparatus. G. L. Ferguson. 1,749,912; Mar. 11.
Pumping apparatus. A. Frisch. 1,750,170; Mar. 11.
Pumping jack, Oil-well. R. B. Norris. 1,750,021; Mar. 11.
Pyrotechnic article. F. S. Hamilton. 1,749,814; Mar. 11.
Quinoline and quinaldine, Purifying. M. Wyler. 1,750,082; Mar. 11.
Rack: *See*—
Insulator rack.
Rack or hanger for articles to be plated. L. Lichtman. 1,749,953; Mar. 11.
Radiocabinet or similar article. N. S. Dunbar. Des. 80,676; Mar. 11.
Rail. M. Schneider. 1,750,365; Mar. 11.
Rail bond. R. S. Wallace. 1,750,553; Mar. 11.
Rail joint, Insulated-. W. P. Thomson. 1,749,857; Mar. 11.
Railway switch. M. Gault. 1,750,465; Mar. 11.
Receiving set. M. V. Timtiman. 1,750,032; Mar. 11.
Recorder: *See*—
Signaling recorder.
Recording machine. R. H. Paulson. 1,750,539; Mar. 11.
Records, Resurfacing. H. P. Beers. 1,750,155; Mar. 11.
Reenforcing-rod chair. J. N. Heltzel. 1,750,106; Mar. 11.
Refractory material, Method of and apparatus for treating. E. L. Hanman. 1,750,468; Mar. 11.
Register: *See*—
Cash register.
Register lock. J. V. Petrelli. 1,749,778; Mar. 11.
Registers, Zero-key mechanism for key-set. E. F. Britten, jr. 1,750,565; Mar. 11.
Registering-device-actuating means. F. H. Borm. 1,750,456; Mar. 11.
Regulating apparatus. E. J. Blake. 1,750,157; Mar. 11.
Regulator: *See*—
Circuit regulator.
Relay equipment, Voice-operated. H. Nyquist. 1,749,841; Mar. 11.
Relay protective system. O. S. Jennings. 1,750,268; Mar. 11.
Resilient wheel. H. A. Howson. 1,750,614; Mar. 11.
Resorcinols, Production of acyl. A. R. L. Dohme. 1,750,299; Mar. 11.
Rim, Demountable. E. L. Ackerman and A. J. Zwierzina. 1,750,209; Mar. 11.
Rim, Demountable. F. R. Klaus. 1,750,477; Mar. 11.
Rim for automobile wheels, Demountable. E. L. Ackerman and A. J. Zwierzina. 1,750,208; Mar. 11.
Ring: *See*—
Piston ring.
Road surfacer. O. L. Elliott. 1,749,805; Mar. 11.
Roads, Surfacing. S. E. Finley. 1,750,096; Mar. 11.
Rod or similar article, Curtain. J. H. Boye. Des. 80,674; Mar. 11.
Rolling-mill-driving system. J. Ledwinka. 1,749,883; Mar. 11.
Roof flashing. R. F. Knox. 1,750,526; Mar. 11.
Roof flashing and jacket. F. J. Moore. 1,750,019; Mar. 11.
Rubber and articles produced thereby, Bonding. H. C. Lord. 1,749,824; Mar. 11.
Rubber, Manufacture of. U. Pestalozza. 1,750,540; Mar. 11.
Rubber sheets from latex, Immediate production of mechanically-unworked pure. P. Klein. 1,750,177; Mar. 11.
Rug-cleaning machine. W. T. Stride. 1,750,496; Mar. 11.
Rug or similar article. G. M. Fauser. Des. 80,677–85; Mar. 11.
Sanding and chamfering machine. J. W. Rosche. 1,750,483; Mar. 11.
Sanitary appliance. H. Abrahamson. 1,750,084; Mar. 11.
Sash and frame construction, Window. H. E. Campbell. 1,750,296; Mar. 11.
Scaffold, Cable. F. B. Johnston. 1,750,269; Mar. 11.
Scale for fishing rods, Fish-weighing. T. T. Reynolds. 1,750,193; Mar. 11.
Scale, Recording. G. R. Wood. 1,750,207; Mar. 11.
Scraper. B. E. Rose. 1,750,132; Mar. 11.
Scraper, Power-operated. H. M. Pursel. 1,750,126; Mar. 11.
Scraper, Road. E. A. Weeks. 1,750,610; Mar. 11.
Screen: *See*—
Auto screen.
Screen patch. D. Downer. 1,749,755; Mar. 11.
Scuttle port and like tight-closed window. L. Lalanne. 1,750,412; Mar. 11.
Sealing strip for bottoms of vehicle bodies. W. A. Mayes. 1,750,416; Mar. 11.
Seat: *See*—
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Selective system. E. W. Niles. 1,749,838; Mar. 11.
Separator: *See*—
Centrifugal separator. Steam separator.
Separator drum. A. Schmücking. 1,750,364; Mar. 11.
Serpentine projector. A. H. Nunemacher. 1,750,120; Mar. 11.
Settee or similar article. C. Stoll. Des. 80,703–6; Mar. 11.
Sewing machine. H. F. Gruman. 1,750,041; Mar. 11.
Sewing machines, Centralizer for. H. C. Miller. 1,749,956; Mar. 11.
Sewing machines, Rotary-hook mechanism for. M. L. Waterman. 1,750,447; Mar. 11.
Shackle, Spring. G. Hunt. 1,749,818; Mar. 11.
Shackle, Spring. D. G. Roos. 1,749,846–9; Mar. 11.
Shade, Lamp. L. Zweig. Des. 80,715; Mar. 11.
Shaft mounting and coupling for engines and cooperative parts. C. H. Knudsen. 1,750,044; Mar. 11.
Shaker, Combined salt and pepper. G. B. Smith. 1,749,853; Mar. 11.
Sharpener, Drill. P. A. Nelson. 1,749,957; Mar. 11.
Sharpener, Scissors. A. H. Brougher. 1,750,504; Mar. 11.
Shear, Utility. D. J. LaBauve. 1,750,411; Mar. 11.
Shearing machine, Cloth-. A. C. Mason. 1,749,829; Mar. 11.
Sheet-making apparatus. A. R. McArthur. 1,750,534; Mar. 11.
Shield, Clothing. J. Abramofsky. 1,750,560; Mar. 11.
Shingle. W. A. Scholimeyer. 1,750,331–2; Mar. 11.
Shirt, Dress. E. J. Quigley. 1,749,887; Mar. 11.
Shock-absorber attachment. W. P. Day. 1,750,510; Mar. 11.
Shoe and hosiery bench. C. F. Wellington. 1,749,865; Mar. 11.
Shoe construction. J. Weiss. 1,749,864; Mar. 11.
Shoe-pressing machine. J. W. Nabb. 1,749,885; Mar. 11.
Shoe welts and outer soles, Attaching. W. S. King. 1,750,225; Mar. 11.
Shoes, Making. C. B. Spalsbury. 1,749,926; Mar. 11.
Shutter automatic release, Fire-. A. Dina. 1,749,971; Mar. 11.
Sign. C. C. Mueller, jr., and D. C. Wendel. 1,750,118; Mar. 11.
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Sign, Road. W. A. Rida and H. A. Perrigo. 1,750,330; Mar. 11.
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Automobile signal.
Signal device. W. G. Keith. 1,750,319; Mar. 11.
Signal for motion-picture machines, Change-over. H. K. Jones and E. A. Chase. 1,750,520; Mar. 11.
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Silo. J. R. Roberts. 1,750,052; Mar. 11.
Slabs, Forming. G. C. Martin. 1,750,113; Mar. 11.
Slicing machine. C. F. M. Van Berkel. 1,750,071; Mar. 11.
Slug-casting machine. E. W. Pierson. 1,750,353; Mar. 11.
Slug ejector. A. S. Ross. 1,749,986; Mar. 11.
Snowplow, Rotary. J. H. Griffin and E. E. Tiers. 1,749,810; Mar. 11.
Socket-wrench set. J. Kneier. 1,750,011; Mar. 11.
Soldering apparatus. R. J. Emmert. 1,750,312; Mar. 11.
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Supporting device for assisting children in learning to walk, Manually-held. E. L. Crocker. 1,749,999; Mar. 11.
Suspenders for overalls. B. Meszaros. 1,750,015; Mar. 11.
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Telegraph service, System for furnishing intermittent. L. C. Roberts. 1,749,844; Mar. 11.
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Temperature regulation, Dual-control. J. H. Godfrey. 1,750,001; Mar. 11.
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Testing machine. F. A. Valentine and D. C. Scott. 1,749,991; Mar. 11.
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Textile fabric or similar article. E. M. Parsons. Des. 80,696; Mar. 11.
Textile fibers with a gaseous current such as ozonized air, Apparatus for bleaching. E. Crespi and M. P. Otto. 1,750,093; Mar. 11.
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Traffic-controlling apparatus, Railway-. J. R. Myers. 1,749,834; Mar. 11.
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Trailer for automobile bodies. R. T. Romine. 1,750,128; Mar. 11.
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Tray, Ash. F. E. Wakefield. Des. 80,712; Mar. 11.
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Truck, Lift. C. L. Moorman. 1,750,277; Mar. 11.
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Truck, Locomotive. C. F. Krauss and H. K. Harwick. 1,750,527; Mar. 11.
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Truss pad. F. E. Chesterman. 1,750,461; Mar. 11.
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Tube containing auxiliary electrodes. Discharged. J. M. Schmierer. 1,750,058; Mar. 11.
Tube system, Discharge-. W. Hahnemann. 1,750,102; Mar. 11.
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Valve. W. F. McKay. 1,749,774; Mar. 11.
Valve, Flush. S. P. Enright. 1,749,911; Mar. 11.
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Valve lapping machine, Triple-. J. R. Ricketts. 1,749,890; Mar. 11.
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Water heater. A. Brodin. 1,749,960; Mar. 11.
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Wheel. F. Kopp. 1,750,407; Mar. 11.
Wheel for vehicles, Resilient. H. Dielmann. 1,750,260; Mar. 11.
Wheel parts, Welding. J. W. Meadowcroft. 1,749,917; Mar. 11.
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Abbott Laboratories, North Chicago, Ill. Brominized oils. 268,703; Mar. 18; Serial No. 291,651; published Dec. 24, 1929. Class 6.

Acme Shear Company, Incorporated, The, Bridgeport, Conn. Shears and scissors. 268,816; Mar. 18; Serial No. 292,514; published Dec. 31, 1929. Class 23.

Actiengesellschaft fur Fabrikation von Kohlenstiften, vormals F. Hardtmuth & Co., Ratibor, to Siemens-Planiawerke A. G. fur Kohlefabrikate, Berlin-Lichtenberg, Germany, successor. Carbon rods for electrical purposes. 32,854; renewed May 9, 1929.

Adams & Elting Company, Chicago, Ill., assignor to The Glidden Company, Cleveland, Ohio. Calcimine. 76,663–4; renewed Feb. 8, 1930.

Advance Novelty Candy Manufacturing Company, to Advance Candy Co., Inc., New York, N. Y., successor. Candies. 77,890; renewed May 17, 1930.

Aeolian Company, The, Meriden, Conn., and New York, N. Y. Keyboard musical instruments and musical-roll magazines. 268,561; Mar. 18; Serial No. 291,542; published Jan. 7, 1930. Class 36.

Aerocar Corporation, The, New York, N. Y. Trailers, both passenger carrying and commercial. 268,858; Mar. 18. Class 19.

Alexander, G. W., & Co., Inc., Reading, Pa. Felt hats. 268,485; Mar. 18; Serial No. 284,767; published Dec. 31, 1929. Class 39.

Allied Drug and Chemical Corporation, New York, N. Y. Uric-acid solvent and preparation. 268,692; Mar. 18; Serial No. 292,433; published Dec. 31, 1929. Class 6.

Alvita Food Products Inc., Boston, Mass. Cereal breakfast foods. 268,867; Mar. 18; Serial No. 288,458; published Dec. 31, 1929. Class 46.

Ambrosia Chocolate Company, Milwaukee, Wis. Chocolate candy in cakes. 268,802; Mar. 18; Serial No. 291,490; published Jan. 7, 1930. Class 46.

American Crayon Company, The, Sandusky, Ohio. Ink paste. 268,579; Mar. 18; Serial No. 292,087; published Dec. 31, 1929. Class 11.

American Mining & Chemical Co., Inc., Shreveport, La. Chemical preparation. 268,594; Mar. 18; Serial No. 292,647; published Jan. 7, 1930. Class 6.

American Printer, Inc., The. (See Oswald Publishing Company.)

Andrews, A. B., Company, assignor, by mesne assignments, to P. V. Sherwood, New York, N. Y. Hosiery. 71,420; renewed Nov. 24, 1928.

Andrews Products Co. (See Rosenbaum, Andrew H.)

Angus Watson & Co. (America) Ltd., San Francisco, Calif. Canned caviar. 268,682; Mar. 18; Serial No. 282,834; published Jan. 7, 1930. Class 46.

Angus Watson & Co. (America) Ltd., San Francisco, Calif. Canned snacks, kippered herring, and crab meat. 268,685; Mar. 18; Serial No. 277,333; published Jan. 7, 1930. Class 46.

Anthony, C. R., Company, Oklahoma City, Okla. Work pants, shirts, coats, etc. 268,760; Mar. 18; Serial No. 291,197; published Dec. 10, 1929. Class 39.

Aphrodol Laboratories, The. (See Sargon Laboratories, Inc., The.)

Ardmore Manufacturing Company, Chicago, Ill. Hand tools. 268,824; Mar. 18; Serial No. 292,084; published Dec. 31, 1929. Class 23.

Arnao, Charles, Company, Minneapolis, Minn. Electrical hair driers. 268,897; Mar. 18. Class 44.

Aroma Coffee Co. (See Poon, Ng M.)

Arrow Oil Company, The, Wooster, Ohio. Motor-lubricating oil. 268,746; Mar. 18; Serial No. 276,944; published Dec. 17, 1929. Class 15.

Arthur's. (See Soteras, Arthur.)

Atlantic Gear Works Inc., Brooklyn, N. Y. Noiseless gears and pinions. 268,828; Mar. 18; Serial No. 292,091; published Dec. 31, 1929. Class 23.

Automatic Drip-O-Lator Company, Kansas City, Mo., assignor, by mesne assignments, to The Enterprise Aluminum Company, Massillon, Ohio. Apparatus for preparing infusions such as those of coffee and tea. 268,715; Mar. 18; Serial No. 280,629; published July 2, 1929. Class 13.

B. B. Laboratories, Inc., Irvington, N. J. Instruments for reproducing sound. 268,728; Mar. 18; Serial No. 276,682; published May 21, 1929. Class 21.

B & W Company. (See Booth, A. C.)

Backer, Wesley H., East Orange, N. J. Incandescent electric lamps. 268,673; Mar. 18; Serial No. 283,081; published Jan. 7, 1930. Class 21.

Baguette Watch Company. (See Goldstein, Edward.)

Baird Television Development Company Limited, London, England. Unitary devices for transmitting and displaying messages, characters, etc. 268,526; Mar. 18; Serial No. 290,737; published Jan. 7, 1930. Class 21.

Balch, John, doing business as Nu-Car-Oil Sales Co., Chicago, Ill. Lubricant. 268,530; Mar. 18; Serial No. 290,173; published Jan. 7, 1930. Class 15.

Baldwin, Robert E., Sanford, Fla. Fresh celery. 268,489; Mar. 18; Serial No. 288,841; published Dec. 31, 1929. Class 46

Bamberger, L., & Co., Newark, N. J. Bracelets, brooches, pendants, etc. 268,529; Mar. 18; Serial No. 290,300; published Jan. 7, 1930. Class 28.

Bamberger, L., & Co., Newark, N. J. Axes, hammers, chisels, bits, etc. 268,834; Mar. 18; Serial No. 290,298; published Jan. 7, 1930. Class 23.

Barber, W. H., Company, Minneapolis, Minn. Lubricating oils and greases. 268,842; Mar. 18; Serial No. 272,972; published Dec. 11, 1928. Class 15.

Barber, W. H., Company, Minneapolis, Minn. Lubricating oils and greases. 268,854; Mar. 18; Serial No. 270,622; published Oct. 16, 1928. Class 15.

Barlow and Grisler Mfg. Co., Brooklyn, N. Y. Hair restorer. 268,782; Mar. 18; Serial No. 290,871; published Dec. 17, 1929. Class 6.

Barner, Hasel, El Paso, Tex. Candies. 268,797; Mar. 18; Serial No. 291,958; published Jan. 7, 1930. Class 46.

Baumgardner, L. S., & Company, to Baumgardner & Co., Toledo, Ohio, successor. Suitings, shirtings, and sheetings. 76,013; renewed Dec. 7, 1929.

Beadle, Eugene E., doing business as United Pharmacal Laboratories, Waterbury, Conn. Bitter medicated mineral oil. 268,773; Mar. 18; Serial No. 292,153; published Dec. 31, 1929. Class 6.

Bear-Stewart Co., Chicago, Ill. Devil's-food-cake mixture. 268,567; Mar. 18; Serial No. 292,789; published Jan. 7, 1930. Class 46.

Beatrice Creamery Company. (See Fox River Butter Company, The, assignor.)

Bendiner & Schlesinger, Inc., New York, N. Y. General tonic. 268,651; Mar. 18; Serial No. 291,755; published Dec. 31, 1929. Class 6.

Benne, Jaffé & Darmstaedter, Martinikenfelde, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medical compounds. 34,706; renewed May 29, 1930.

Benzit Aktiengesellschaft, Berlin, Germany. Chemical preparations. 268,700; Mar. 18; Serial No. 291,865; published Dec. 24, 1929. Class 6.

Berlei Limited, Sydney, New South Wales, Australia. Corsets and brassières. 268,459; Mar. 18; Serial No. 291,959; published Dec. 31, 1929. Class 39.

Berney & Company, Walla Walla, Wash. Fresh deciduous fruits. 268,831; Mar. 18; Serial No. 291,046; published Jan. 7, 1930. Class 46.

Best Foods, Inc., The, New York, N. Y. Sweet-pickle relish. 268,475; Mar. 18; Serial No. 291,493; published Jan. 7, 1930. Class 46.

Best Foods, Inc., The, New York, N. Y. Icing base. 268,476; Mar. 18; Serial No. 291,492; published Jan. 7, 1930. Class 46.

Best Shirt Company, New York, N. Y. Dress shirts. 268,924; Mar. 18. Class 39.

Biancone, Paul, doing business as K-O-K Cleanser Company, Columbus, Ohio. Chemical washing fluid. 268,784; Mar. 18; Serial No. 290,445; published Dec. 24, 1929. Class 6.

Bigelow-Hartford Carpet Company, Thompsonville, Conn., now by change of name Bigelow-Sanford Carpet Co., Inc. Woven textile rugs and carpets. 268,866; Mar. 18; Serial No. 289,886; published Dec. 31, 1929. Class 42.

Bi-Jo Specialty Co. (See Randall, Hilbert A.)

Binsky, Aaron I., Inc., New York, N. Y. Outer clothing. 268,759; Mar. 18; Serial No. 290,648; published Dec. 31, 1929. Class 39.

Bird, Alfred, & Sons, Limited, Birmingham, England. Dessert powder. 268,479; Mar. 18; Serial No. 290,539; published Nov. 26, 1929. Class 46.

Birdsong & Showers, Vernon, Tex. Vegetable cooler and display stand. 268,928; Mar. 18. Class 31.

Bishop, Alfred, Ltd., London, England. Medicinal preparations. 268,647; Mar. 18; Serial No. 289,915; published Dec. 31, 1929. Class 6.

Bishop & Babcock Mfg. Co., The, Cleveland, Ohio. Electric fans, blowers, and electric motors therefor. 268,937; Mar. 18. Class 21.

Blanke Baer Extract & Preserving Company, St. Louis, Mo. Ice-cream bars and coating therefor. 268,911; Mar. 18. Class 46.

Blish Milling Company, Seymour, Ind. Flour. 268,638; Mar. 18; Serial No. 288,636; published Dec. 31, 1929. Class 46.

Blum Store, The, Philadelphia, Pa. Suits, coats, dresses, hats, etc. 268,900; Mar. 18. Class 39.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 268,464; Mar. 18; Serial No. 292,711; published Dec. 31, 1929. Class 42.

Booth, A. C., doing business as B & W Company, Sacramento, Calif. Medicinal preparation. 268,898; Mar. 18. Class 6.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Work gloves. 268,761; Mar. 18; Serial No. 291,112; published Dec. 24, 1929. Class 39.

Bowman Hat Company, Knoxville, Tenn. Men's hats and caps. 268,457; Mar. 18; Serial No. 292,093; published Dec. 31, 1929. Class 39.

Brandywine Fibre Products Company, Wilmington, Del. Flash-light and fuse casings. 268,917; Mar. 18. Class 21.

Bremer Linoleumwerke Delmenhorst, Delmenhorst, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Linoleum. 77,790; renewed May 10, 1930.

Breslin, Patrick J., doing business as Robin Hood Salve Co., Brooklyn, N. Y. Salve. 268,666; Mar. 18; Serial No. 291,962; published Jan. 7, 1930. Class 6.

Brewer-Titchener Corporation, The, Cortland, N. Y. Vehicle tops. 268,903; Mar. 18. Class 19.

Brockton Shoe Manufacturing Company, Inc., Holbrook, Mass. Leather shoes. 268,508; Mar. 18; Serial No. 249,404; published Feb. 28, 1928. Class 39.

Brown & Bigelow, St. Paul, Minn. Portfolios, pocketbooks, wallets, key cases. 268,608; Mar. 18; Serial No. 258,017; published Jan. 7, 1930. Class 3.

Brown Durrell Co., Boston, Mass. Men's work shirts. 268,733; Mar. 18; Serial No. 275,657; published Jan. 7, 1930. Class 39.

Brown Durrell Co., Boston, Mass. Dress shields and elastic tape. 268,912; Mar. 18. Class 40.

Browning, George W., Mobile, Ala. Worm tablets for adult dogs and foxes. 268,604; Mar. 18; Serial No. 291,963; published Jan. 7, 1930. Class 6.

Burpee, W. Atlee, Co., Philadelphia, Pa. Garden vegetable seeds, flower seeds, and field seeds. 268,925; Mar. 18. Class 1.

Bush-Brown, Lydia, New York, N. Y. Silk wall drapes. 268,878; Mar. 18. Class 42.

Butler Brothers, Chicago, Ill. Women's rayon underwear. 268,450; Mar. 18; Serial No. 292,654; published Jan. 7, 1930. Class 39.

Butler, Edward J., Boston, Mass. Coffee, tea, and cocoa. 268,800; Mar. 18; Serial No. 291,655; published Jan. 7, 1930. Class 46.

Cable Company, The, Chicago, Ill. Radio receiving sets and parts thereof. 268,487; Mar. 18; Serial No. 284,322; published Dec. 31, 1929. Class 21.

Calcimint Laboratory. (See Jones, Thomas H.)

California Date Merchants. (See Walsh, Leo V.)

California Fruit Growers Exchange, Los Angeles, Calif. Citrus oils and citric acid. 268,616; Mar. 18; Serial No. 262,797; published Dec. 17, 1929. Class 6.

California Fruit Growers Exchange, Los Angeles, Calif. Pectin. 268,741; Mar. 18; Serial No. 273,861; published Dec. 31, 1929. Class 46.

California Mexico Sales Co. (See Stassforth, Howard P.)

California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables, dried fruit, pickles, etc. 268,678; Mar. 18; Serial No. 282,638; published Dec. 31, 1929. Class 46.

Canadian Industrial Alcohol Company Limited, Montreal, Quebec, Canada. Denatured alcohol and methylated spirits. 268,653; Mar. 18; Serial No. 291,498; published Jan. 7, 1930. Class 6.

Canepa, John B., Company, The, Chicago, Ill. Alimentary paste goods. 268,727; Mar. 18; Serial No. 281,257; published Dec. 31, 1929. Class 46.

Carlisle Shoe Company, Carlisle, Pa. Boots and shoes. 268,752; Mar. 18; Serial No. 288,176; published Dec. 31, 1929. Class 39.

Carolina Chemical Company, Union, S. C. Liniment. 268,902; Mar. 18. Class 6.

Carpenter Steel Company, The, Reading, Pa. Tool steel. 268,882; Mar. 18. Class 14.

Celanese Corporation of America, New York, N. Y. Fabrics made wholly or partially of cellulose derivatives. 268,620; Mar. 18; Serial No. 293,083; published Jan. 7, 1930. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics made wholly or partially of cellulose derivatives. 268,818; Mar. 18; Serial No. 292,893; published Dec. 31, 1929. Class 42.

Century Ribbon Mills, Inc. (Ernest & Herman Levy), New York, N. Y. Ribbons. 268,931; Mar. 18. Class 40.

Ceramic Machinery Company, doing business as Columbia Manufacturing Company, Hamilton, Ohio. Electrically-operated household mixers. 268,630; Mar. 18; Serial No. 282,528; published Dec. 31, 1929. Class 21.

Ce-Re-Ol Pure Food Products Co. (See Pray, Edward E.)

Chaffee Manufacturing Company, to J. D. Chaffee, doing business as The Chaffee Manufacturing Company, Willimantic, Conn., successor. Fish lines. 76,104; renewed Dec. 14, 1929.

Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Baking powder. 77,628; renewed Apr. 26, 1930. Class 6.

Champion Fibre Company, The, Canton, N. C. Tannin extracts. 268,690; Mar. 18; Serial No. 292,600; published Dec. 31, 1929. Class 6.

Chaney Products, Inc., New York, N. Y. Permanent-hair-waving supplies. 268,602; Mar. 18; Serial No. 292,097; published Jan. 7, 1930. Class 6.

Chatillon, John, & Sons, New York, N. Y. Weighing scales. 268,835; Mar. 18; Serial No. 289,873; published Dec. 31, 1929. Class 26.

Chemical Charcoal Company, Buffalo, N. Y. Charcoal. 33,753; renewed Nov. 14, 1929. Class 1.

Chemical Foundation, Incorporated, The. (See Benno, Jaffé & Darmstaedter, assignors.)

Chemical Foundation, Incorporated, The. (See Bremer Linoleumwerke Delmenhorst, assignor.)

Chemical Foundation, Incorporated, The. (See Chemische Werke vorm. Dr. Heinrich Byk, assignor.)

Chemical Foundation, Incorporated, The. (See Farbwerke vorm. Meister Lucius & Brüning, assignor.)

Chemical Foundation, Incorporated, The. (See Lingner, Karl A., assignor.)

Chemical Foundation, Incorporated, The. (See Merck, Firm of E., assignor.)

Chemical Foundation, Incorporated, The. (See Sauer, Friedrich G., assignor.)

Chemische Werke vorm. Dr. Heinrich Byk, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Antiseptic mouth wash. 76,065; renewed May 31, 1930.

Cheney Brothers, South Manchester, Conn. Textile and pile fabrics in the piece. 268,584; Mar. 18; Serial No. 292,716; published Jan. 7, 1930. Class 42.

Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face powders, etc. 268,589; Mar. 18; Serial No. 292,924; published Jan. 7, 1930. Class 6.

Chetwode Inc., New York, N. Y. Ladies' stockings. 268,751; Mar. 18; Serial No. 289,006; published Dec. 31, 1929. Class 39.

Chicago Pneumatic Tool Company. (See Indian Refining Company, Inc., assignor.)

Chicago Specialty Co. (See Podesta, L. A.)

Christierson, S. V., Salinas, Calif. Fresh vegetables, fish, deciduous fruits, and fresh citrus fruits. 268,803; Mar. 18; Serial No. 291,438; published Jan. 7, 1930. Class 46.

Cincinnati Victor Company, The, Cincinnati, Ohio. Electric fans, electric reflecting heaters, etc. 268,538; Mar. 18; Serial No. 288,221; published Dec. 31, 1929. Class 21.

Clay, J. T., & Sons, Limited, Rastrick, England. Cloths and stuffs of wool, worsted, or hair. 76,569; renewed Feb. 1, 1930.

Closson, Ralph, doing business as Kavatex Co., Logansport, Ind. Preparation for the relief of ailments in the kidneys. 268,652; Mar. 18, Serial No. 291,716; published Dec. 31, 1929. Class 6.

Coca Cola Bottling Co., The, Wichita, Kans. Soda water. 268,837; Mar. 18; Serial No. 289,338; published Dec. 31, 1929. Class 45.

Cochrane, James A., doing business as J. A. Cochrane & Co., Keokuk, Iowa. Preparations for the treatment of pyorrhea, trench mouth, bleeding gums, etc. 268,654; Mar. 18; Serial No. 291,202; published Dec. 31, 1929. Class 6.

Cogswell Laboratories, Inc., Lowell, Mass. Skin lotion. 268,879; Mar. 18. Class 6.

Cohen, Benjamin, doing business as Insene Manufacturing Co., Philadelphia, Pa. Insecticide for roaches, etc. 268,689; Mar. 18; Serial No. 292,615; published Dec. 3, 1929. Class 6.

Cohn & Rosenberger, Inc., New York, N. Y. Necklaces, bracelets, earrings, etc. 268,553–4; Mar. 18; Serial Nos. 291,816–7; published Dec. 31, 1929. Class 28.

Colorado Honey Producers Association, Denver, Colo. Honey. 268,708; Mar. 18; Serial No. 282,226; published July 16, 1929. Class 46.

Colson Company, The, Elyria, Ohio. Vibratory converters. 268,739; Mar. 18; Serial No. 274,205; published Dec. 31, 1929. Class 21.

Columbia Manufacturing Company. (See Ceramic Machinery Company.)

Columbia-Okanogan Orchards, Inc., Brewster, Wash. Fresh apples. 268,857; Mar. 18; Serial No. 269,080; published Dec. 31, 1929. Class 46.

Compagnie Generale Des Machines Parlantes "Pathe-Freres", Paris, France. Talking machines, disc records, and parts thereof. 268,668; Mar. 18; Serial No. 283,784; published Jan. 7, 1930; Class 36.

Compañía Tabacalera Nacional, S. A., Habana, Cuba. Cigars. 268,631; Mar. 18; Serial No. 290,822; published Dec. 31, 1929. Class 17.

Conley Ointment Corporation, Muncie, Ind. Medicinal ointment and liquid for the treatment of eczema, etc. 268,591; Mar. 18; Serial No. 292,867; published Jan. 7, 1930. Class 6.

Conner, William W., Washington, D. C. Paint known as blackboard slating. 268,771; Mar. 18; Serial No. 285,147; published Jan. 7, 1930. Class 16.

Consolidated Millinery Company, Chicago, Ill. Millinery. 268,758; Mar. 18; Serial No. 290,824; published Dec. 31, 1929. Class 39.

Container Corporation of America, Chicago, Ill. Shipping cases. 268,780; Mar. 18; Serial No. 291,050; published Jan. 7, 1930. Class 2.

Cooper Corporation, The, Cincinnati, Ohio. Storage batteries. 268,909; Mar. 18. Class 21.

Cooper, Samuel, doing business as Purr Chemical Co., Woodside, N. Y. Liniment. 268,663; Mar. 18; Serial No. 285,017; published Jan. 7, 1930. Class 6.

Cooper, Samuel, doing business as Purr Chemical Co., Woodside, N. Y. Baby powder. 268,664–5; Mar. 18; Serial Nos. 285,015–16; published Jan. 7, 1930. Class 6.

Co-operative Olive Producers Association. (See Shurtleff, Flavel.)

Cracker Jack Co., The, Chicago, Ill. Candy. 268,503; Mar. 18; Serial No. 287,696; published Jan. 7, 1930. Class 46.

Craft, Wm. J., doing business as Craftoil Company, Glendale, Calif. Lubricating compounds and oils. 268,525; Mar. 18; Serial No. 290,745; published Dec. 31, 1929. Class 15.

Craftoil Company. (See Craft, Wm. J.)

Cream Fried Cake Co., The, Brighton, Mass. Doughnuts. 268,566; Mar. 18; Serial No. 292,705; published Jan. 7, 1930. Class 46.

Cruce, J. Lee, Co., to Swamp & Dixie Laboratories, Inc., Fort Smith, Ark., successor. Medical compound. 34,108; renewed Jan. 30, 1930.

Crystal Chemical Company, Inc., The, Bronx, N. Y. Face powders. 268,627; Mar. 18; Serial No. 286,927; published Dec. 17, 1929. Class 6.

Cushing Grocery Co., Hastings, Nebr. Canned peas, salmon, pears, etc. 268,883. Class 46.

Custom House Packing Corporation, Monterey, Calif. Canned fish. 268,507; Mar. 18; Serial No. 287,051; published Jan. 7, 1930. Class 46.

Dade Canning & Preserving Co., Coconut Grove, Fla. Canned vegetables, fruit preserves, marmalade, and pickles. 268,793; Mar. 18; Serial No. 292,202; published Jan. 7, 1930. Class 46.

Daniels, Dr. A. C., Inc., Boston, Mass. Cat medicine. 268,687; Mar. 18; Serial No. 277,099; published Dec. 24, 1929. Class 6.

Daniels, Isa., Kansas City, Mo. Preparation for treating hair and scalp. 268,522; Mar. 18; Serial No. 292,257; published Dec. 24, 1929. Class 6.

Davilla, Joseph J., doing business as Gold Ribbon Products Co., New Orleans, La. Salad dressing and sandwich spread. 268,870; Mar. 18; Serial No. 285,964; published Jan. 7, 1930. Class 46.

Davis, Edna C., doing business as Paxette, Brookline, Mass. Electric warm-air drier for the hands. 268,558; Mar. 18; Serial No. 291,656; published Jan. 7, 1930. Class 21.

Davison-Paxon Company, Atlanta, Ga. Silks in the piece. 268,610; Mar. 18; Serial No. 256,102; published Jan. 7, 1930. Class 42.

Deep Point Canning Co. (See Stuart, Charles E.)

De Montemar, C. H., Phoenix, Ariz. Fresh apples. 268,513; Mar. 18; Serial No. 287,054; published Jan. 7, 1930. Class 46.

Digestive Ferments Company, Detroit, Mich. Medicinal preparation. 268,543–5; Mar. 18; Serial Nos. 292,258–60; published Dec. 24, 1929. Class 6.

Dobbs, Arthur E., Miami, Fla. Carburetors. 268,520; Mar. 18; Serial No. 285,710; published Jan. 7, 1930. Class 28.

Dodge, Samuel W. (See Savage, William H., assignor.)

Dodson, Fisher, Brockmann Company, assignor to Dodson-Fisher Co., Minneapolis, Minn. Harness and saddlery. 34,265; renewed Feb. 27, 1930.

Driver-Harris Company, Harrison, N. J. Resistance wire, rods, and strands, etc. 268,559–60; Mar. 18; Serial Nos. 291,610–1; published Dec. 31, 1929. Class 21.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 268,776; Mar. 18; Serial No. 291,914; published Dec. 24, 1929. Class 6.

Eastern Cotton Oil Company, Norfolk, Va. Fertilizer. 268,574; Mar. 18; Serial No. 292,157; published Dec. 31, 1929. Class 10.

Eneblend Co., The. (See Kelly, Bertie.)

English Textilose Manufacturing Company Limited, The, Manchester, England. Yarns and threads. 268,516; Mar. 18; Serial No. 286,042; published Dec. 31, 1929. Class 43.

Enro Shirt Company, The, Louisville, Ky. Collars, shirts, pajamas, and underwear. 268,483; Mar. 18; Serial No. 291,503; published Jan. 7, 1930. Class 39.

Enterprise Aluminum Company, The. (See Automatic Drip-O-Lator Company, assignor.)

Epstein, Bernard, New York, N. Y. Skirts. 268,763; Mar. 18; Serial No. 290,941; published Dec. 31, 1929. Class 39.

Epstein, Max, doing business as Western Malt Products Co., College Point, N. Y. Malt syrup. 268,471; Mar. 18; Serial No. 291,915; published Jan. 7, 1930. Class 46.

Establecimiento Modelo Terrabusi. (See Terrabusi, Ambrosius U.)

Everett, Edward A., Long Island City, N. Y. Resistance elements in lightning arresters. 268,681; Mar. 18; Serial No. 282,457; published Jan. 7, 1930. Class 21.

Excel Metal Cabinet Company, Incorporated, Falconer, N. Y. Metal medicine and kitchen cabinets, mirror frames, radiator enclosures, etc. 268,488; Mar. 18; Serial No. 284,225; published Jan. 7, 1930. Class 32.

Faber Neophen Company. (See Ruskin, Lewis J.)

Fairbanks Company, The, New York, N. Y. Valves. 77,630; renewed Apr. 26, 1930.

Fairchild Bros. & Foster, Elizabeth, N. J., and New York, N. Y., to Fairchild Bros. & Foster, New York, N. Y., successor. Food for infants and invalids. 34,242; renewed Feb. 27, 1930.

Fairmont Canning Co., Fairmont, Minn. Canned vegetables. 268,808; Mar. 18; Serial No. 292,900; published Jan. 7, 1930. Class 46.

Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-the-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Tablets and capsules of medicaments. 78,568; renewed June 28, 1930.

Fashion Shop, The, Washington, D. C. Clothing. 268,839–40; Mar. 18; Serial Nos. 273,290–1; published Dec. 31, 1929. Class 39.

Federal Mill & Elevator Co., Inc., Lockport, N. Y. Wheat flour. 268,641; Mar. 18; Serial No. 285,350; published Jan. 7, 1930. Class 46.

Fine, M., & Sons, New York, N. Y. Adults' negligee, children's shirts, work shirts, and men's underwear. 268,895; Mar. 18. Class 39.

Firestone Tire & Rubber Company, The, Akron, Ohio. Gasoline and lubricating oil and grease. 268,556; Mar. 18; Serial No. 291,720; published Jan. 7, 1930. Class 15.

Fitzpatrick, Jeremiah. (See Strong & Garbeld Co.)

Fleischer, Joseph, doing business as Fleischer & Co., New York, N. Y. Combs. 268,914; Mar. 18. Class 40.

Fleischmann's Vienna Model Bakery, Philadelphia, Pa. Bakery products. 34,668; renewed May 22, 1930.

Floyd, C., Tampa, Fla. Cigars. 268,572–3; Mar. 18; Serial Nos. 292,159–60; published Dec. 31, 1929. Class 17.

Ford, Carl W., Chicago, Ill. Electric storage batteries. 268,907; Mar. 18. Class 21.

Forest City Mfg. Co., St. Louis, Mo. Washable dresses. 268,901; Mar. 18. Class 39.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 268,732; Mar. 18; Serial No. 276,129; published Jan. 7, 1930. Class 42.

Fortner, Louis B., Philadelphia, Pa. Liquid compound for fixing colors of dyed fibers and fabrics. 34,157; renewed Feb. 6, 1930.

Fox River Butter Company, The, Aurora and Oswego, assignor to Beatrice Creamery Company, Chicago, Ill. Butter. 34,148; renewed Feb. 6, 1930.

Franklin Manufacturing Company, The, New Haven, Conn. Wire straightening and cutting-off machines. 78,703; renewed July 5, 1930.

Freshman, Chas., Co., Inc., New York, N. Y. Radio receiving sets and tubes. 268,624; Mar. 18; Serial No. 247,686; published Jan. 10, 1928. Class 21.

Fromm Bros., Inc., Hamburg, Wis. Raw fox pelts. 268,908; Mar. 18. Class 1.

Fussell-Young Ice Cream Co., Washington, D. C. Ice cream, ices, and frozen custards. 268,726; Mar. 18; Serial No. 281,417; published Jan. 7, 1930. Class 46.

Gallina, R. A., Figli Di Giuseppe, Chieri, Italy. Bedcovers, coverlets, coverings, and counterpanes. 268,684; Mar. 18; Serial No. 277,577; published Dec. 31, 1929. Class 42.

Gamble, David C., Lima, Ohio. Stock and poultry minerals. 268,660; Mar. 18; Serial No. 287,578; published Dec. 31, 1929. Class 6.

Gamon, Ernest E., to Gamon Meter Company, Newark, N. J., successor. Water meters. 77,634; renewed Apr. 26, 1930.

Gasetts Company, The, New London, Conn. Tablets for treating conditions of hyperacidity. 268,603; Mar. 18; Serial No. 291,972; published Jan. 7, 1930. Class 6.

General-Direktion der Österr. Tabakregie, Vienna, Austria. Cigarette paper and cigarette-paper tubes. 268,639; Mar. 18; Serial No. 287,249; published Jan. 7, 1930. Class 8.

General-Direktion der Österr. Tabakregie, Vienna, Austria. Tobaccos, cigars, and cigarettes. 268,891–3; Mar. 18. Class 17.

Genogen Company, The. (See Phytamin Corporation, The.)

Geraldi-Dorman, Inc., Brooklyn, N. Y. Olive oil. 268,683; Mar. 18. Serial No. 277,580; published Jan. 7, 1930. Class 46.

Gildersleeve, Joseph B., doing business as The Motorsuite Company, New York, N. Y. Chemical preparation. 268,609; Mar. 18; Serial No. 292,206; published Dec. 31, 1929. Class 6.

Glidden Company, The. (See Adams & Elting Company, assignor.)

Godde, Albert, Bedin, Inc., New York, N. Y. Lingerie cloth in the piece. 268,469; Mar. 18; Serial No. 292,104; published Jan. 7, 1930. Class 42.

Gold Ribbon Products Co. (See Davilla, Joseph J.)

Goldstein, Edward, doing business as Baguette Watch Company, New York, N. Y. Watches. 268,568; Mar. 18; Serial No. 292,207; published Dec. 31, 1929. Class 27.

Good Health Publishing Company, Battle Creek, Mich. Monthly magazines. 77,916; renewed May 17, 1930.

Goodimate Co., Inc., The, Philadelphia, Pa. Men's overcoats and top coats. 268,926; Mar. 18. Class 39.

Graham Paper Company, St. Louis, Mo. Paper cans. 268,899; Mar. 18. Class 2.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Candy. 268,806; Mar. 18; Serial No. 292,871; published Jan. 7, 1930. Class 46.

Grasselli Chemical Company, The, Cleveland, Ohio. Fluxes. 268,601; Mar. 18; Serial No. 292,106; published Dec. 31, 1929. Class 6.

Great Atlantic & Pacific Tea Company, The, New York, N. Y. Salted mixed nuts. 268,809; Mar. 18; Serial No. 292,708; published Jan. 7, 1930. Class 46.

Great Western Oil Company, The, Cleveland, Ohio. Gasoline. 268,677; Mar. 18; Serial No. 282,646; published Jan. 7, 1930. Class 15.
Green Mountain Packing Company, Portland, Me. Maple syrup. 268,614; Mar. 18; Serial No. 264,230; published Jan. 8, 1929. Class 46.
Greene, E. L., Knitting Mills, Inc., Bath, N. Y. Bathing suits. 268,456; Mar. 18; Serial No. 292,107; published Dec. 31, 1929. Class 39.
Griffing, Edgar J., Waterbury, Conn. Polish. 268,749; Mar. 18; Serial No. 289,515; published Dec. 31, 1929. Class 16.
Guth, Edwin F., Company, The, St. Louis, Mo. Electric fans. 268,935; Mar. 18. Class 21.
Gysin, Sebastian, doing business as Milwaukee Whole Food Products, Milwaukee, Wis. Table salt. 268,649; Mar. 18; Serial No. 291,824; published Dec. 31, 1929. Class 6.
Gysin, Sebastian, doing business as Milwaukee Whole Food Products, Milwaukee, Wis. Laxative. 268,667; Mar. 18; Serial No. 291,825; published Jan. 7, 1930. Class 6.
H. and F. Food Products Corporation, Buffalo, N. Y. Mayonnaise, celery sauce, salad dressing, and sandwich spread. 268,856; Mar. 18; Serial No. 270,376; published Dec. 24, 1929. Class 46.
Hadley Company, The, Charleston, W. Va. Radio receiving sets. 268,533; Mar. 18; Serial No. 289,562; published Jan. 7, 1930. Class 21.
Hall, Charles P., doing business as The C. P. Hall Company, Akron, Ohio. Compound. 268,541; Mar. 18; Serial No. 292,355; published Dec. 31, 1929. Class 6.
Hall & Connolly, Inc., New York, N. Y. Electrical spotlights, flood lights, etc. 268,731; Mar. 18; Serial No. 276,183; published Jan. 7, 1930. Class 21.
Handy, H. L., Company, Springfield, Mass. Eggs, ham, bacon, etc. 268,480; Mar. 18; Serial No. 290,511; published Dec. 24, 1929. Class 46.
Hanover Electric Company, Inc., New York, N. Y. Reading glasses. 268,826; Mar. 18; Serial No. 291,981; published Dec. 31, 1929. Class 26.
Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Surgical appliances. 268,743; Mar. 18; Serial No. 273,700; published Dec. 31, 1929. Class 44.
Hansen & Dieckmann, to John Dieckmann, doing business as Hansen & Dieckmann, New York, N. Y., successor. Caviar and preserved fish. 34,937; renewed July 24, 1930.
Harrower Laboratory, Inc., The, Glendale, Calif. Preparation for use in the treatment for diseases of the heart. 268,590; Mar. 18; Serial No. 292,873; published Jan. 7, 1930. Class 6.
Hawaiian Beauty Products Co. (See Lewis, Edna J.)
Hecht, Herman, doing business as Hecht's Bakery, Bristol, Tenn. Bread. 268,577; Mar. 18; Serial No. 292,108; published Dec. 31, 1929. Class 46.
Heit-Miller-Lau Company, Fort Wayne, Ind. Candy. 268,500; Mar. 18; Serial No. 289,926; published Jan. 7, 1930. Class 46.
Henderson, James D., Chicago, Ill. Electrical advertising display cabinets and electrical advertising match and toothpick dispensers. 268,528; Mar. 18; Serial No. 290,572; published Dec. 31, 1929. Class 21.
Hills Brothers Company, The, New York, N. Y. Canned grapefruit. 268,792; Mar. 18; Serial No. 292,322; published Jan. 7, 1930. Class 46.
Hills Brothers Company, The, New York, N. Y. Chocolate-covered dates. 268,799; Mar. 18; Serial No. 291,829; published Jan. 7, 1930. Class 46.
Hinton, Warner D., Oakland, Ky. Spark plugs. 268,562; Mar. 18; Serial No. 291,389; published Dec. 31, 1929. Class 21.
Hipp, Didisheim & Bro., to Hipp, Didisheim Co. Inc., New York, N. Y., successor. Watches and watch movements. 77,711; renewed May 3, 1930.
Hitt Flashcracka Company, Seattle, Wash. Fireworks. 268,830; Mar. 18; Serial No. 291,453; published Jan. 7, 1930. Class 9.
Hobson, Jay G., & Co. Inc., Chillicothe, Ohio. Capsules. 268,595; Mar. 18; Serial No. 292,532; published Dec. 31, 1929. Class 6.
Hoffman, Sam, assignor to Runsdorf-Hoffman Co. Inc., New York, N. Y. Men's suits and overcoats. 268,622; Mar. 18; Serial No. 252,328; published Oct. 18, 1927. Class 39.
Hohner, M., Inc., New York, N. Y. Mouth harmonicas. 268,552; Mar. 18; Serial No. 291,830; published Dec. 31, 1929. Class 36.
Holibaugh, Corwin W., Jamaica, N. Y. Waffle flour. 268,934; Mar. 18. Class 46.
Holland & Son, New York, N. Y. Silk piece goods. 268,463; Mar. 18; Serial No. 292,806; published Dec. 31, 1929. Class 42.
Holtite Mfg. Co., The, Baltimore, Md. Adhesive rubber cement. 268,569–71; Mar. 18; Serial Nos. 292,166–8; published Jan. 7, 1930. Class 5.
Homade Baking Co., Scranton, Pa. Bread. 268,719; Mar. 18; Serial No. 278,128; published Jan. 7, 1930. Class 46.
Homeland Citrus Growers Association, Homeland, Fla. Fresh citrus fruits. 268,583; Mar. 18; Serial No. 292,728; published Jan. 7, 1930. Class 46.
Honey Heart Candy Co. (See Mettler, Frank W.)
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 268,585; Mar. 18; Serial No. 292,945; published Jan. 7, 1930. Class 6.
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 268,586; Mar. 18; Serial No. 292,939; published Jan. 7, 1930. Class 6.
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 268,587–8; Mar. 18; Serial Nos. 292,936–7; published Jan. 7, 1930. Class 6.
Howe Chain Company, Muskegon, Mich. Trucks. 268,679; Mar. 18; Serial No. 282,554; published Jan. 7, 1930. Class 19.
Hudson, J. L., Company, The, Detroit, Mich. Boys' hosiery. 268,454; Mar. 18; Serial No. 292,210; published Dec. 31, 1929. Class 39.
Huston, Tom, Peanut Company, Columbus, Ga. Peanut brittle. 268,582; Mar. 18; Serial No. 292,878; published Jan. 7, 1930. Class 46.
Huston, Tom, Peanut Company, Columbus, Ga. Chocolate and chocolate-coated nuts. 268,717; Mar. 18; Serial No. 279,073; published Jan. 7, 1930. Class 46.
Hydrocarbon Products Company, Inc., New York, N. Y. Solvent and diluent for lacquers, etc. 268,714; Mar. 18; Serial No. 280,645; published June 11, 1929. Class 16.
Hyman & Oppenheim, Inc., New York, N. Y. Perfumes, toilet waters, face lotions, etc. 268,698; Mar. 18; Serial No. 292,359; published Dec. 31, 1929. Class 6.
Hyvis Oil Company, The, Cleveland, Ohio. Gasoline. 268,565; Mar. 18; Serial No. 291,162; published Jan. 7, 1930. Class 15.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Medicinal preparations. 268,648; Mar. 18; Serial No. 289,885; published Dec. 24, 1929. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Autogenous cutting and welding torches, cutting and welding machines, etc. 268,869; Mar. 18; Serial No. 287,802; published Jan. 7, 1930. Class 34.
Igleheart Brothers, Incorporated. (See Phoenix Flour Mill, assignor.)
Indian Refining Company, Inc., Augusta, Me., and Cincinnati, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Lubricating oils. 77,159; renewed Mar. 15, 1930.
Industrial Home for the Blind, The, Brooklyn, N. Y. Cane, fibre, wood, leather, metal, and compo board, etc., seats for chairs. 268,716; Mar. 18; Serial No. 279,518; published Dec. 31, 1929. Class 32.
Industrial Rayon Corporation, Cleveland, Ohio. Rayon yarn. 268,734; Mar. 18; Serial No. 275,357; published Dec. 31, 1929. Class 43.
Ingram-Richardson Manufacturing Co., Beaver Falls, Pa. Advertising signs. 78,975; renewed July 26, 1930.
Insene Manufacturing Co. (See Cohen, Benjamin.)
International Agricultural Corporation, New York, N. Y. Fertilizers. 268,578; Mar. 18; Serial No. 292,110; published Dec. 31, 1929. Class 10.
International Products Corporation, New York, N. Y. Beef bouillon. 268,798; Mar. 18; Serial No. 291,876; published Jan. 7, 1930. Class 46.
International Resistance Company, Philadelphia, Pa. Electrical resistors. 268,930; Mar. 18. Class 21.
International Silver Company, Meriden and Bridgeport, Conn. Tableware. 268,551; Mar. 18; Serial No. 291,984; published Jan. 7, 1930. Class 28.
Interstate Department Stores, Inc., New York, N. Y. Bed sheets, pillowcases, sheetings, etc. 268,465; Mar. 18; Serial No. 292,581; published Jan. 7, 1930. Class 42.
Iowa Auto Market, Inc., Des Moines, Iowa. Lubricating oils. 268,916; Mar. 18. Class 15.
Jabas, Paul, La Chaux-de-Fonds, Switzerland. Talking machines and parts thereof. 268,537; Mar. 18; Serial No. 288,617; published Jan. 7,1930. Class 36.
Jacob, Hy E., Fresno, Calif. Fresh grapes and vegetables. 268,497; Mar. 18; Serial No. 290,466; published Jan. 7, 1930. Class 46.
Jaeger Company, Inc., The, New York, N. Y. Woolen slippers, gloves, bath robes, etc. 268,493; Mar. 18; Serial No. 291,770; published Dec. 31, 1929. Class 39.
Johnson, A. S., Fish Co., Duluth, Minn. Canned oysters. 268,801; Mar. 18; Serial No. 291,565; published Jan. 7, 1930. Class 46.
Joles, Bessie L., Eau Claire, Wis. Medicinal preparation for the treatment of rheumatism and for purifying the blood. 268,702; Mar. 18; Serial No. 291,673; published Dec. 31, 1929. Class 6.
Jones, Thomas H., doing business as Calcimint Laboratory, Cleveland, Ohio. Medicinal preparation. 268,722; Mar. 18; Serial No. 277,761; published Apr. 16, 1929. Class 6.
K-O-K Cleanser Company. (See Biancone, Paul.)
Karagheusian, A. & M., Inc., New York, N. Y. Textile rugs and carpets. 268,580–1; Mar. 18; Serial Nos. 292,879–80; published Jan. 7, 1930. Class 42.
Katzinger, Edward, Company, Chicago, Ill. Base-metal cooking moulds and baking pans. 268,860–3; Mar. 18; Serial Nos. 286,056–9; published Jan. 7, 1930. Class 13.
Kavatex Co. (See Closson, Ralph.)
Kelly, Bertie, doing business as The Eneblend Co., Weatherford, Tex. Rouge. 268,706; Mar. 18; Serial No. 291,566; published Dec. 31, 1929. Class 6.
Kenny, C. D., Co., Baltimore, Md. Coffee. 268,807; Mar. 18; Serial No. 292,808; published Jan. 7, 1930. Class 46.
Kings River Fruit Association, Minkler, Calif. Fresh grapes. 268,615; Mar. 18; Serial No. 263,216; published Jan. 7, 1930. Class 46.

Knapp-Monarch Company, St. Louis, Mo., and Webster City, Iowa. Electric toasters, electric heating pads, etc. 268,535; Mar. 18; Serial No. 288,748; published Dec. 31, 1929. Class 21.
Kochs, Theo. A., Company, Chicago, Ill. Hairdressing. 268,523; Mar. 18; Serial No. 292,214; published Dec. 24, 1929. Class 6.
Kohler-McLister Paint Company, The, Denver, Colo. Paints, varnishes, lacquers, stains, etc. 268,484; Mar. 18; Serial No. 291,894; published Jan. 7, 1930. Class 16.
Kress, S. H., & Co., New York, N. Y. Men's underwear. 268,762; Mar. 18; Serial No. 290,957; published Dec. 24, 1929. Class 39.
Kronberg, Charles J., doing business as National Record Company, New York, N. Y. Musical instruments and supplies, accessories therefor, envelopes, and albums. 268,720; Mar. 18; Serial No. 277,846; published Jan. 7, 1930. Class 36.
Kronheim, Jacob, Cleveland, Ohio. Resilient seats for couches, chairs, davenports. 268,669; Mar. 18; Serial No. 283,648; published Dec. 31, 1929. Class 32.
Landquist, Austin W., assignor to Lukutate Corporation of America, New York, N. Y. Candy, jelly, jam, etc. 268,619; Mar. 18; Serial No. 261,366; published Jan. 7, 1930. Class 46.
Laskin, J., & Sons, Inc., New York, N. Y. Furs and skins. 268,876–7; Mar. 18. Class 1.
Lattanzio, Polidoro, Astoria, N. Y. Ameliorative. 268,599; Mar. 18; Serial No. 292,405; published Dec. 31, 1929. Class 6.
Leonard Research Laboratories. (See Piccoli, Leonard J.)
Lévy, Léon G., Paris, France. Suits, stockings, skirts, etc. 268,606–7; Mar. 18; Serial Nos. 260,126–7; published Jan. 7, 1930. Class 39.
Lewis, A. H., Medicine Co., The, St. Louis, Mo. Carminative antacid corrective for stomach distress. 268,593; Mar. 18; Serial No. 292,675; published Dec. 31, 1929. Class 6.
Lewis, Edna J., doing business as Hawaiian Beauty Products Co., West Hollywood, Calif. Preparation in the form of a pomade for straightening curly or kinky hair. 268,650; Mar. 18; Serial No. 291,776; published Jan. 7, 1930. Class 6.
Libby, W. S., Company, Lewiston, Me. Blankets. 268,882; Mar. 18; Serial No. 290,756; published Dec. 31, 1929. Class 42.
Lieber, Hugo, New York, N. Y. Ear phones. 268,453; Mar. 18; Serial No. 292,216; published Dec. 31, 1929. Class 44.
Liebig's Extract of Meat Company, Limited, London, England, and Fray Bentos, Uruguay, assignor to Oxo, Limited, London, England. Substances used as food or as ingredients in food. 34,414; renewed Apr. 3, 1930.
Lincoln Macaroni Mfg. Company, Brooklyn, N. Y. Macaroni. 268,472; Mar. 18; Serial No. 291,980; published Dec. 31, 1929. Class 46.
Lindsay, Robert G., Miami, Fla. Candy chewing gum, candied nuts, shelled nuts. 268,744; Mar. 18; Serial No. 273,661; published Jan. 7, 1930. Class 46.
Lingner, Karl A., Dresden, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medicinal preparation. 78,617; renewed June 28, 1930.
Lippincott Company, The, Cincinnati, Ohio. Certain food. 76,815; renewed Feb. 15, 1930.
Lo Bue, Philip, San Jose, Calif. Fresh prickly pears. 268,495; Mar. 18; Serial No. 291,280; published Jan. 7, 1930. Class 46.
Loeb, Joseph, Portland, Oreg. Siphon bottles, fuel tanks, and storage tanks. 268,788; Mar. 18; Serial No. 290,217; published Jan. 7, 1930. Class 2.
Log Cabin Products Company, The. (See Towle Syrup Company, The, assignor.)
Longlife Battery Inc., South Boston, Mass. Lead storage batteries. 268,672; Mar. 18; Serial No. 283,126; published Jan. 7, 1930. Class 21.
Los Angeles Brewing Co., Los Angeles, Calif. Beer. 77,932; renewed May 17, 1930.
Louis Natural Hair Restorer Company, Jourdanton, Tex. Natural-hair restorer. 268,873; Mar. 18; Serial No. 289,319; published Dec. 17, 1929. Class 6.
Lukutate Corporation of America. (See Landquist, Austin W., assignor.)
M. & B. Products Co., Philadelphia, Pa. Insecticide. 268,693; Mar. 18; Serial No. 292,408; published Dec. 31, 1929. Class 6.
Madison Woolen Company, Madison, Me. Woolen piece goods. 268,466–7; Mar. 18; Serial Nos. 292,501–2; published Dec. 31, 1929. Class 42.
Madison Woolen Company, Madison, Me. Woolen piece goods. 268,817; Mar. 18; Serial No. 292,503; published Dec. 31, 1929. Class 42.
Magay Corporation, New York, N. Y. Medicinal preparation. 268,697; Mar. 18; Serial No. 292,217; published Dec. 31, 1929. Class 6.
Maillard, Henry, Inc., Long Island City, N. Y. Candy. 268,810; Mar. 18; Serial No. 292,455; published Jan. 7, 1930. Class 46.
Mallinson, H. R., & Co. Inc. (See Migel, M. C., & Company, assignor.)
Manhattan Shirt Co., The, New York, N. Y. Negligee shirts, pajamas, and underwear. 268,462; Mar. 18; Serial No. 291,517; published Dec. 31, 1929. Class 39.
Manolis Manufacturing Co., Chicago, Ill. Overgaiters and spats. 268,904; Mar. 18. Class 39.
Maple Leaf Milling Company, Limited, Toronto, Ontario, Canada. Grain products. 268,633; Mar. 18; Serial No. 290,712; published Dec. 31, 1929. Class 46.
Maring Wire Company, The, Muskegon, Mich. Magnet wire. 268,612; Mar. 18; Serial No. 255,565; published Dec. 31, 1929. Class 21.
Martin, Steve, St. Louis, Mo. Hair restorer and hair dye. 268,874; Mar. 18; Serial No. 289,196; published Dec. 17, 1929. Class 6.
Marvlo Mills, Inc., New York, N. Y. Cotton, linen, artificial and natural silk goods in pieces. 268,512; Mar. 18; Serial No. 287,582; published Jan. 7, 1930. Class 42.
May Department Stores Company, The, New York, N. Y. Shirts. 268,756–7; Mar. 18; Serial Nos. 290,848–9; published Jan. 7, 1930. Class 39.
May Department Stores Company, The, New York, N. Y. Shirts. 268,764; Mar. 18; Serial No. 290,850; published Jan. 7, 1930. Class 39.
McCreery, James, & Company, New York, N. Y. Necklaces and bracelets. 268,524; Mar. 18; Serial No. 290,901; published Dec. 31, 1929. Class 28.
McCreery, James, & Company, New York, N. Y. Furniture. 268,819; Mar. 18; Serial No. 292,328; published Jan. 7, 1930. Class 32.
McGovern & McGovern, Seattle, Wash. Canned fish. 268,805; Mar. 18; Serial No. 292,883; published Jan. 7, 1930. Class 46.
Medico Laboratories, The, Chicago, Ill. Medicinal preparation. 268,605; Mar. 18; Serial No. 260,339; published Nov. 6, 1928. Class 6.
Merck & Co., Inc., Rahway, N. J. Toilet cream. 268,852; Mar. 18; Serial No. 271,261; published Dec. 31, 1929. Class 6.
Merck, Firm of E., Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Metabolic product of tubercle bacilli. 34,741; renewed June 5, 1930.
Meridian Grain & Elevator Co., Meridian, Miss. Feeds. 268,628; Mar. 18; Serial No. 291,994; published Jan. 7, 1930. Class 46.
Merkle Coffee Company, The, Columbus, Ohio. Coffee. 268,896; Mar. 18. Class 46.
Metal Lubricant Company, The, Columbus, Ohio. Lubricants, lubricating oils, and greases. 268,555; Mar. 18; Serial No. 291,753; published Dec. 31, 1929. Class 15.
Mettler, Frank W., doing business as Honey Heart Candy Co., Helena, Mont. Candy. 268,865; Mar. 18; Serial No. 289,472; published Jan. 7, 1930. Class 46.
Migel, M. C., & Company, assignor, by mesne assignments, to H. R. Mallinson & Co. Inc., New York, N. Y. Silks in piece goods. 78,890; renewed July 19, 1930.
Miller High Life Company, Milwaukee, Wis. Beverages. 268,814; Mar. 18; Serial No. 292,677; published Jan. 7, 1930. Class 48.
Milwaukee Whole Food Products. (See Gysin, Sebastian.)
Minneapolis Knitting Works, Minneapolis, Minn. Knit garments. 78,434; renewed June 14, 1930.
Mirakel Optical Co., Mount Vernon, N. Y. Binoculars. 268,822; Mar. 18; Serial No. 292,118; published Dec. 31, 1929. Class 26.
Mitchell Medicine Company, Inc., Birmingham, Ala. Healing liniment. 268,853; Mar. 18; Serial No. 270,752; published Dec. 31, 1929. Class 6.
Mittag & Volger, assignor to Mittag & Volger, Incorporated, Park Ridge, N. J. Typewriter ribbons. 34,517; renewed Apr. 24, 1930.
Mittag & Volger, assignor to Mittag & Volger, Incorporated, Park Ridge, N. J. Typewriter ribbons and carbon papers. 34,518; renewed Apr. 24, 1930.
Mooney, William P., doing business as Mooney's Laboratory, Milwaukee, Wis. Capsules. 268,777; Mar. 18; Serial No. 291,632; published Dec. 31, 1929. Class 6.
Morrison, George, Poughkeepsie, N. Y. Honey. 268,478; Mar. 18; Serial No. 291,572; published Dec. 24, 1929. Class 46.
Morton Manufacturing Company, Muskegon Heights, Mich. Machine keys. 268,821; Mar. 18; Serial No. 292,222; published Jan. 7, 1930. Class 28.
Motormite Company, The. (See Glidersleeve, Joseph B.)
Mu-Col Company, The, Buffalo, N. Y. Effervescent granular salts. 77,177; renewed Mar. 15, 1930.
Naamlooze Vennootschap Helm Cacao-en Chocoladefabriek, Helmond, Netherlands. Cocoa, chocolate, toffees, etc. 268,502; Mar. 18; Serial No. 288,347; published Jan. 7, 1930. Class 46.
Nadox Co., The, New Rochelle, N. Y. Antacid digestant. 268,781; Mar. 18; Serial No. 291,887; published Dec. 17, 1929. Class 6.
Nathan, S., & Co. Inc., New York, N. Y. Synthetic stones. 268,536; Mar. 18; Serial No. 288,660; published Jan. 7, 1930. Class 26.
National Carbon Company, Inc., New York, N. Y. Thermionic vacuum tubes, vacuum-tube valves and rectifiers, etc. 268,534; Mar. 18; Serial No. 288,865; published Jan. 7, 1930. Class 21.
National Carbon Company, Inc., New York, N. Y. Electric batteries. 268,557; Mar. 18; Serial No. 291,687; published Jan. 7, 1930. Class 21.

National Cash Register Company, The, Dayton, Ohio. Calculating, computing, and accounting machines, etc. 268,615; Mar. 18; Serial No. 292,637; published Jan. 7, 1930. Class 26.
National Drying Machinery Co., The, Philadelphia, Pa. Cloth-drying machines and drying machines. 268,833; Mar. 18; Serial No. 290,588; published Dec. 31, 1929. Class 23.
National-Erie Company, Erie, Pa. Vulcanizer heaters and heater doors. 268,775; Mar. 18; Serial No. 291,926; published Jan. 7, 1930. Class 34.
National Record Company. (See Kronberg, Charles J.)
National Wiring & Protective Co. Inc., Brooklyn, N. Y. Burglar alarms and burglar-alarm systems. 268,742; Mar. 18; Serial No. 273,832; published Dec. 31, 1929. Class 21.
Neet, Incorporated, St. Louis Mo. Depilatory. 268,789; Mar. 18; Serial No. 290,141; published Dec. 24, 1929. Class 6.
New England Confectionery Company, Cambridge, Mass. Candy. 268,611; Mar. 18; Serial No. 255,660; published Apr. 9, 1929. Class 46.
New Era Shirt Company, St. Louis, Mo. Collars. 268,894; Mar. 18. Class 39.
New Process Company, Warren, Pa. Men's cloth coats. 268,767; Mar. 18; Serial No. 291,234; published Jan. 7, 1930. Class 39.
"Nix-Lix Mfg. Co." (See Quast, Otto K.)
North Star Strawboard Mills, Quincy, Ill. Strawboard. 268,929; Mar. 18. Class 37.
Northern Products, Inc., Denver, Colo. Preparation for killing dandelions. 268,661; Mar. 18; Serial No. 286,651; published Dec. 31, 1929. Class 6.
Norton Bros and Morris, Los Angeles, Calif. Dress shirts, lumberjackets, and blazers for men and boys. 268,905; Mar. 18. Class 39.
Nu-Car-Oil Sales Co. (See Balch, John.)
Oglesby, M. Curtis, Pomona, Calif. Cold creams, massage cream, hair dye, etc. 268,662; Mar. 18; Serial No. 286,259; published Dec. 31, 1929. Class 6.
Olmsted, Mary B., Friend, Nebr. Vanishing cream, lip stick, face powder, and perfume. 268,645; Mar. 18; Serial No. 291,136; published Dec. 31, 1929. Class 6.
Omaha Cold Storage Company, Omaha, Nebr. Butter. 268,884; Mar. 18. Class 46.
Oswald, Anthony L., Hutchinson, Kans. Drinking water. 268,825; Mar. 18; Serial No. 292,077; published Dec. 31, 1929. Class 45.
Oswald Publishing Company, by change of name to The American Printer, Inc., New York, N. Y. Periodical. 78,439; renewed June 14, 1930.
Oxo, Limited. (See Liebig's Extract of Meat Company, Limited, assignor.)
P. C. Laboratory, The. (See Pease, Wilbert E.)
Padgett, Benjamin L., Los Angeles, Calif. Graph boards. 268,673; Mar. 18; Serial No. 282,791; published Dec. 31, 1929. Class 26.
Park & Tilford, New York, N. Y. Teas. 78,020; renewed May 24, 1930.
Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of roundworms and tapeworms. 268,596; Mar. 18; Serial No. 292,507; published Dec. 31, 1929. Class 6.
Parker Rust-Proof Company, Detroit, Mich. Chemical materials. 268,659; Mar. 18; Serial No. 288,392; published Dec. 3, 1929. Class 6.
Paul, A., & Sons, Inc., New York, N. Y. Fur garments. 268,755; Mar. 18; Serial No. 289,899; published Dec. 17, 1929. Class 39.
Paxette. (See Davis, Edna C.)
Pearlman Brothers, New York, N. Y. Hats and caps. 268,750; Mar. 18; Serial No. 289,085; published Dec. 31, 1929. Class 39.
Pease, Wilbert E., doing business as The P. C. Laboratory, Chicago, Ill. Hair pomade and blemish cream. 268,790; Mar. 18; Serial No. 290,029; published Dec. 17, 1929. Class 6.
Peirce, E. W., doing business as E. W. Peirce Co., Zanesville, Ohio. Honey. 268,474; Mar. 18; Serial No. 291,633; published Dec. 24, 1929. Class 46.
Pepsodent Co., The, Chicago, Ill. Antiseptics. 268,606; Mar. 18; Serial No. 292,228; published Dec. 24, 1929. Class 6.
Perry & Company, Limited, Birmingham, England. Pens. 34,209; renewed Feb. 26, 1930.
Phoenix Flour Mill, Evansville, Ind., assignor to Igleheart Brothers, Incorporated, New York, N. Y. Wheat flour. 34,150; renewed Feb. 6, 1930.
Phoenix Hosiery Company, Milwaukee, Wis. Hosiery. 268,921; Mar. 18. Class 39.
Phytamin Corporation, The, doing business as The Genogen Company, Battle Creek, Mich. Medicinal tonic tablet preparation. 268,656; Mar. 18; Serial No. 291,023; published Dec. 31, 1929. Class 6.
Piccoli, Leonard J., doing business as Leonard Research Laboratories, New York, N. Y. Preparations for the prevention and treatment of colds, etc. 268,542; Mar. 18; Serial No. 292,284; published Dec. 24, 1929. Class 6.
Pierce, F. O., Company, New York, N. Y. Paints, paint enamels, stains, and varnishes. 268,461; Mar. 18; Serial No. 291,736; published Jan. 7, 1930. Class 16.
Pile-O-Chase Chemical Company, Foxburg, Pa. Pile ointment. 268,705; Mar. 18; Serial No. 291,634; published Dec. 31, 1929. Class 6.
Pilot Hosiery Mills, Incorporated, Lexington, N. C. Socks. 268,491; Mar. 18; Serial No. 291,838; published Dec. 31, 1929. Class 39.
Podesta, L. A., doing business as Chicago Specialty Co., San Francisco, Ill. Malt syrup. 268,477; Mar. 18; Serial No. 291,472; published Dec. 31, 1929. Class 46.
Podolac Co. (See Powell, Joseph C.)
Pomeroy, Limited, Mrs., Walham Green, London, and London, England. Lotions for the face and hands, hair, eyes, and feet, creams, etc. 268,642; Mar. 18; Serial No. 291,527; published Dec. 17, 1929. Class 6.
Pool, R. F., jr., Manufacturing Co., McKinney, Tex. Men's underwear and pajamas. 268,488; Mar. 18; Serial No. 292,046; published Dec. 31, 1929. Class 39.
Poon, Ng M., doing business as Aroma Coffee Co., San Antonio, Tex. Coffee. 268,725; Mar. 18; Serial No. 281,520; published Jan. 7, 1930. Class 46.
Porto Rico Pale Dry Co., Philadelphia, Pa. Ginger ale and root beer. 268,918; Mar. 18. Class 45.
Powell, Joseph C., doing business as Podolac Co., Charlotte, N. C. External medicinal preparation. 268,872; Mar. 18; Serial No. 289,419; published Dec. 24, 1929. Class 6.
Powers Cinephone Equipment Corporation, New York, N. Y. Apparatus and parts thereof for the synchronous production and reproduction of talking motion pictures or other sound and light effects. 268,509; Mar. 18; Serial No. 287,935; published Jan. 7, 1930. Class 26.
Pray, Edward E., doing business as Ce-Re-Ol Pure Food Products Co., Los Angeles, Calif. Mayonnaise. 268,481; Mar. 18; Serial No. 290,425; published Jan. 7, 1930. Class 46.
Primfit Textile Company, Inc., The, Cincinnati, Ohio. Hosiery and underwear. 268,490; Mar. 18; Serial No. 291,888; published Dec. 31, 1929. Class 39.
Purity Oats Company, Keokuk, Iowa. Cereal product. 268,494; Mar. 18; Serial No. 292,902; published Jan. 7, 1930. Class 46.
Purr Chemical Co. (See Cooper, Samuel.)
Quast, Otto K., doing business as "The Nix-Lix Mfg. Co.," Spokane, Wash. Preparation for treating colds and catarrh. 268,729; Mar. 18; Serial No. 276,536; published Dec. 31, 1929. Class 6.
Quong Sang Chong Co., San Francisco, Calif. Canned fish 268,498; Mar. 18; Serial No. 290,477; published Jan. 7, 1930. Class 46.
Randall, E., & Co. (See Williams, Lewis S.)
Randall, Hilbert A., doing business as Bi-Jo Specialty Co., Dallas, Tex. Antiseptic mosquito balm. 268,875; Mar. 18; Serial No. 289,162; published Dec. 13, 1929. Class 6.
Rauh Bros. & Company, Pittsburgh, Pa. Shirts and undershirts. 77,330; renewed Mar. 29, 1930.
Reardon, T. J., Inc., Charlestown, Mass. Fresh potatoes. 268,496; Mar. 18; Serial No. 291,177; published Jan. 7, 1930. Class 46.
Refinoil Manufacturing Corporation, Kansas City, Mo. Machine or apparatus for reclaiming lubricating oils. 268,838; Mar. 18; Serial No. 273,379; published Dec. 31, 1929. Class 23.
Reily, Wm. B., & Company, Incorporated, New Orleans, La. Coffee and chicory compound. 268,501; Mar. 18; Serial No. 288,726; published Jan. 7, 1930. Class 46.
Rheinstrom Bros. Company, The, Cincinnati, Ohio. Salad dressing. 268,470; Mar. 18; Serial No. 292,288; published Dec. 31, 1929. Class 46.
Rhodes Electric Hat-Man, Inc., Seattle, Wash. Hat-renovating machines. 268,735; Mar. 18; Serial No. 275,131; published Jan. 7, 1930. Class 24.
Rhodes, Ernest L., Company, Atlanta, Ga. Ladies' hats. 268,754; Mar. 18; Serial No. 290,147; published Dec. 31, 1929. Class 39.
Riddo-Girms Chemical Co. (See Wolverton, Marie K.)
Rio Grande Oil Company, Los Angeles, Calif. Gasoline, kerosene, petroleum distillate, etc. 268,923; Mar. 18. Class 15.
Roberts, F. H., Company, Boston, Mass. Candy. 268,796; Mar. 18; Serial No. 292,011; published Jan. 7, 1930. Class 46.
Roberts and Oake, Inc., Chicago, Ill. Sausage specialty. 268,811; Mar. 18; Serial No. 292,838; published Jan. 7, 1930. Class 46.
Robin Hood Salve Co. (See Creslin, Patrick J.)
Roddenbery Brothers, Cairo, Ga. Combination syrup. 268,613; Mar. 18; Serial No. 265,295; published July 24, 1928. Class 46.
Röhm & Haas, Esslingen, Germany, assignor to Rohm & Haas Company, Philadelphia, Pa. Pickling and baiting substances used in tanning. 77,178; renewed Mar. 15.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Pudding in powdered form. 268,780; Mar. 18; Serial No. 276,334; published Dec. 24, 1929. Class 46.
Rosenbaum, Andrew H., doing business as Andrews Products Co., Atlantic City, N. J. Malt syrup. 268,843; Mar. 18; Serial No. 272,353; published May 28, 1929. Class 46.
Ross, Aaron, New York, N. Y. Skin conditioner and make-up remover. 268,890; Mar. 18. Class 6.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y., to Royal Baking Powder Company, New York, N. Y. Baking powder. 78,828; renewed July 12, 1930.
Runsdorf-Hoffman Co. Inc. (See Hoffman, Sam, assignor.)

Ruskin, Lewis J., doing business as Faber Neophen Company, Chicago, Ill. Internal medical preparations. 268,646; Mar. 18; Serial No. 290,748; published Dec. 24, 1929. Class 6.
St. Mungo Manufacturing Company, Glasgow, Scotland, assignor to St. Mungo Manufacturing Company of America, Newark, N. J. Golf balls. 79,011; renewed July 26, 1930.
Salem Pottery Co., The, Salem, Ohio. Chinaware or pottery. 268,915; Mar. 18. Class 30.
Sanford Mills, Sanford, Me. Woolen cloaking fabric. 268,468; Mar. 18; Serial No. 292,464; published Jan. 7, 1930. Class 42.
Sanford Mills, Sanford, Me., and Boston, Mass. Motor robes, carriage robes, and rugs. 268,674; Mar. 18; Serial No. 283,061; published Aug. 13, 1929. Class 42.
Saratoga-Carlsbad Company, Saratoga Springs, N. Y. Spring water. 268,514; Mar. 18; Serial No. 286,545; published Dec. 31, 1929. Class 45.
Sargon Laboratories, Inc., The, doing business as The Aphrodol Laboratories, Dayton, Ohio. General medicinal tonic. 268,592; Mar. 18; Serial No. 292,828; published Jan. 7, 1930. Class 6.
Sauer, Friedrich G., Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Hæmoglobin preparations. 34,742; renewed June 5, 1930.
Savage, William H., Fitchburg, assignor to Samuel W. Dodge, Leominster, Mass. Metal memorial vase. 268,747; Mar. 18; Serial No. 276,863; published Jan. 7, 1930. Class 13.
Saville, J. J., & Co. Limited, Sheffield, England. Steel. 77,401; renewed Apr. 5, 1930.
Saville, J. J., & Co. Limited, Sheffield, England. Steel. 77,420; renewed Apr. 5, 1930.
Sawyer, Chester E., Company, Boston, Mass. Tooth paste. 268,707; Mar. 18; Serial No. 291,531; published Dec. 17, 1929. Class 6.
Schlichte, Dr. Herbert, doing business as H. W. Schlichte, Steinhagen, Germany. Gin. 268,521; Mar. 18; Serial No. 285,803; published Jan. 7, 1930. Class 49.
Schmidt & Meimer, Weidenau-on-the-Sieg, Germany. Galvanized dustbins, pails, buckets, and parts thereof. 268,774; Mar. 18; Serial No. 291,937; published Jan. 7, 1930. Class 2.
Schmitz, John A., doing business as Silver Moon Specialty Co., Chicago, Ill. Nail polish. 268,686; Mar. 18; Serial No. 277,318; published Mar. 5, 1929. Class 6.
Schoenburg, Paul P., doing business as Schoenburg Bros., Salinas, Calif. Fresh vegetables, fresh deciduous fruit. 268,795; Mar. 18; Serial No. 292,053; published Jan. 7, 1930. Class 46.
Schoenhofen Company, Chicago, Ill. Malt syrup for food purposes. 268,625; Mar. 18; Serial No. 288,141; published Jan. 11, 1927. Class 46.
Schreiber Milling & Grain Co., St. Joseph, Mo. Livestock feed. 268,709; Mar. 18; Serial No. 282,065; published Jan. 7, 1930. Class 46.
Schreiber Milling & Grain Co., St. Joseph, Mo. Poultry feed. 268,710; Mar. 18; Serial No. 282,064; published Jan. 7, 1930. Class 46.
Schreiber Milling & Grain Co., St. Joseph, Mo. Livestock and poultry feed. 268,711; Mar. 18; Serial No. 282,062; published Jan. 7, 1930. Class 46.
Schreiber Milling & Grain Co., St. Joseph, Mo. Poultry feed. 268,722; Mar. 18; Serial No. 282,061; published Jan. 7, 1930. Class 46.
Schreiber Products Corporation, Buffalo, N. Y. White malt sugar powder. 268,482; Mar. 18; Serial No. 290,091; published Jan. 7, 1930. Class 46.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 268,452; Mar. 18; Serial No. 292,230; published Dec. 31, 1929. Class 39.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 268,455; Mar. 18; Serial No. 292,126; published Dec. 31, 1929. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Hats. 268,492; Mar. 18; Serial No. 291,795; published Dec. 31, 1929. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Electrical devices used in the kitchen. 268,527; Mar. 18; Serial No. 290,611; published Dec. 31, 1929. Class 21.
Sears, Roebuck and Co., Chicago, Ill. Hats. 268,766; Mar. 18; Serial No. 291,242; published Dec. 31, 1929. Class 39.
Seco Leather Products Company, New York, N. Y. Wallets and bill folds. 268,654-5; Mar. 18; Serial Nos. 290,668-9; published Dec. 31, 1929. Class 3.
Seco Leather Products Company, New York, N. Y. Wallets and bill folds. 268,656-7; Mar. 18; Serial Nos. 290,665-6; published Dec. 31, 1929. Class 3.
Selden Motor Vehicle Co., Rochester, N. Y., assignor to Selden Truck Corporation, Allentown, Pa. Automobiles. 78,457; renewed June 14, 1930.
Sénégas, Jean, New York, N. Y. Toilet preparations. 78,649; renewed June 28, 1930.
Sharp & Dohme, Incorporated, Baltimore, Md. Scientific preparation. 268,655; Mar. 18; Serial No. 291,029; published Jan. 7, 1930. Class 6.
Shepard, Sarah E. B., Lowell, Mass. Textile garment. 268,887; Mar. 18. Class 39.
Sherwood, Peter V. (See Andrews, A. B., Company, assignor.)
Shurtleff, Flavel, doing business as Co-operative Olive Producers Association, Los Angeles, Calif. Canned olives. 268,868; Mar. 18; Serial No. 288,441; published Dec. 31, 1929. Class 46.
Shuster, F. B., Company, The, New Haven, Conn. Riveting machines. 78,754-6; renewed July 5, 1930.
Siemens-Planiawerke A. G. für Kohlefabrikate. (See Actiengesellschaft für Fabrikation von Kohlenstiften, vormals F. Hardtmuth & Co.)
Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric vacuum cleaners and parts thereof. 268,540; Mar. 18; Serial No. 285,594; published Jan. 7, 1930. Class 21.
Sierra Vista Packing Association, Riverside, Calif. Fresh citrous fruits. 268,938; Mar. 18. Class 46.
Silver Moon Specialty Co. (See Schmitz, John A.)
Sinclair Refining Company, New York, N. Y. Lubricating oils. 268,547; Mar. 18; Serial No. 292,574; published Jan. 7, 1930. Class 15.
Sinclair Refining Company, New York, N. Y. Lubricating oils and greases. 268,621; Mar. 18; Serial No. 293,008; published Jan. 7, 1930. Class 15.
Slip-Not Belting Corporation, Kingsport, Tenn. Laminated belting. 268,918; Mar. 18. Class 35.
Smith, Euclid B., New Orleans, La. Creole canned gumbo soup. 268,505; Mar. 18; Serial No. 287,430; published Jan. 7, 1930. Class 46.
Snow Flyer Corporation, The, New Holstein, Wis. Runner propulsion attachment for automobiles. 268,785; Mar. 18; Serial No. 290,880; published Jan. 7, 1930. Class 19.
Snyder, Sherwood P., doing business as Snyder's Community Kitchen Co., Dayton, Ohio. Mayonnaise dressing, sandwich spread, etc. 268,478; Mar. 18; Serial No. 290,977; published Dec. 24, 1929. Class 46.
Sobel Shoe Co. Inc., Boston, Mass. Shoes. 268,765; Mar. 18; Serial No. 291,297; published Dec. 31, 1929. Class 39.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Sheet packings, jointings, couplings, etc. 268,518-9; Mar. 18; Serial Nos. 285,833-4; published Dec. 31, 1929. Class 35.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Articles made of leather. 268,844; Mar. 18; Serial No. 271,781; published Dec. 31, 1929. Class 40.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Sport suits, coats, jackets, boots, etc. 268,845; Mar. 18; Serial No. 271,780; published Dec. 31, 1929. Class 39.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Tailored covers made of leather. 268,846; Mar. 18; Serial No. 271,779; published Dec. 31, 1929. Class 32.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Valises, suitcases, trunks, etc. 268,847; Mar. 18; Serial No. 271,778; published Dec. 31, 1929. Class 3.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Articles made of leather. 268,848; Mar. 18; Serial No. 271,776; published Dec. 31, 1929. Class 40.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Sport suits, coats, ulsters, boots, etc. 268,849; Mar. 18; Serial No. 271,775; published Dec. 31, 1929. Class 39.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Tailored covers made of leather manufactured from scraps of real leather. 268,850; Mar. 18; Serial No. 271,774; published Dec. 31, 1929. Class 32.
Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Valises, suitcases, trunks, etc. 268,851; Mar. 18; Serial No. 271,773; published Dec. 31, 1929. Class 3.
Societe Industrielle de Realisation Artistique Anciens Etablissements Berlan, Lederlin et Cie. (Societe Anonyme), Paris, France. Boxes, cases, and flasks. 268,740; Mar. 18; Serial No. 274,019; published Jan. 7, 1930. Class 2.
Soft-Lite Lens Co., Inc., New York, N. Y. Ophthalmic lenses and blanks. 268,820; Mar. 18; Serial No. 292,292; published Dec. 31, 1929. Class 26.
Soteras, Arthur, doing business as Arthur's, Chicago, Ill. Chocolate creams, chocolate-covered hard centers, etc. 268,804; Mar. 18; Serial No. 291,363; published Jan. 7, 1930. Class 46.
Sportwear Attire Corp., New York, N. Y. Knitted fabrics. 268,889; Mar. 18. Class 42.
Squibb, E. R., & Sons, New York, N. Y. Antiseptic. 268,694; Mar. 18; Serial No. 292,875; published Dec. 24, 1929. Class 6.
Stanavo Specification Board, assignor to Stanavo Specification Board, Inc., New York, N. Y. Lubricating oils and greases and motor-fuel oils. 268,532; Mar. 18; Serial No. 289,996; published Dec. 31, 1929. Class 15.
Stanavo Specification Board, assignor to Stanavo Specification Board, Inc., New York, N. Y. Lubricating oils and greases and motor-fuel oils. 268,539; Mar. 18; Serial No. 287,502; published Dec. 31, 1929. Class 15.
Stanco, Incorporated, Wilmington, Del., and New York, N. Y. Mineral oil for chemical, etc., purposes. 268,597; Mar. 18; Serial No. 292,466; published Jan. 7, 1930. Class 6.
Stanco, Incorporated, Wilmington, Del., and New York, N. Y. Insecticides, deodorants, and disinfectants. 268,598; Mar. 18; Serial No. 292,465; published Jan. 7, 1930. Class 6.
Stanco Incorporated, New York, N. Y. Cartons. 268,783; Mar. 18; Serial No. 290,620; published Jan. 7, 1930. Class 2.

Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Baking powder. 268,699; Mar. 18; Serial No. 292,184; published Dec. 31, 1929. Class 6.

Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum, mineral wax, candles, etc. 268,548; Mar. 18; Serial No. 292,128; published Jan. 7, 1930. Class 15.

Standard Products Corporation, New York, N. Y. Tissue paper. 268,922; Mar. 18. Class 37.

Standard Stoker Company, Inc., The, New York, N. Y. Stokers and repair parts thereof. 268,932; Mar. 18. Class 34.

Starr Knitting Mills, Inc., Pleasantville, N. J. Cotton wash rags. 268,860; Mar. 18; Serial No. 287,381; published Sept. 24, 1929. Class 42.

Stassforth, Howard P., doing business as California Mexico Sales Co., Los Angeles, Calif. Fresh vegetables. 268,794; Mar. 18; Serial No. 292,056; published Jan. 7, 1930. Class 46.

Stein Cosmetics Company, Inc., New York, N. Y. Hair shampoo. 268,657; Mar. 18; Serial No. 289,850; published Dec. 31, 1929. Class 6.

Steinberger Bros. Glove Corp., San Francisco, Calif., and New York, N. Y. Gloves. 268,753; Mar. 18; Serial No. 290,436; published Dec. 31, 1929. Class 39.

Stern-Brown, Inc., New York, N. Y. Cigarette-package covers. 268,629; Mar. 18; Serial No. 291,939; published Jan. 7, 1930. Class 6.

Stockham, Edward V., Perryman, assignor to Edward V. Stockham, Inc., Havre de Grace, Md. Canned or preserved fruits and vegetables. 34,777; renewed June 12, 1930.

Strasenburgh, R. J., Co., Rochester, N. Y. Medicinal preparation. 268,695; Mar. 18; Serial No. 292,234; published Dec. 31, 1929. Class 6.

Strong & Garfield Co., Portland, Me., and Boston, Mass., to Jeremiah Fitzpatrick, doing business as George Strong Company, East Weymouth, Mass., successor. Boots and shoes and soles and uppers for same. 32,434; renewed Jan. 31, 1929.

Stuart, Charles E., doing business as Deep Point Canning Co., Stratford, Va. Canned tomatoes. 268,920; Mar. 18. Class 2.

Sullivan Company, The, Memphis, Tenn. Quick-setting compound for all cement. 268,688; Mar. 18; Serial No. 292,688; published Dec. 31, 1929. Class 6.

Sun-Glo Neon Corporation, Fort Worth, Tex. Luminescent tubes, insulators, electrode housings, etc. 268,724; Mar. 18; Serial No. 282,015; published Dec. 3, 1929. Class 21.

Sunset Pacific Oil Company, Los Angeles, Calif. Gasoline, lubricating greases and oils. 268,549; Mar. 18; Serial No. 292,057; published Jan. 7, 1930. Class 15.

Sutter Packing Co., Mayfield, Calif. Canned fruits. 268,841; Mar. 18; Serial No. 273,024; published Jan. 7, 1930. Class 46.

Swamp & Dixie Laboratories, Inc. (See Cruce, J. Lee, Co.)

Swinehart Tire and Rubber Company, The, Akron, Ohio. Tires. 268,936; Mar. 18. Class 35.

Switzerland Cheese Association, Inc., New York, N. Y. Cheese. 268,576; Mar. 18; Serial No. 292,130; published Jan. 7, 1930. Class 46.

Terrabusi, Ambrosius U., doing business as Establecimiento Modelo Terrabusi, Buenos Aires, Argentina. Bakery products. 268,630; Mar. 18; Serial No. 291,299; published Dec. 31, 1929. Class 46.

Tetley, Joseph, & Co., New York, N. Y. Tea. 268,510–11; Mar. 18; Serial Nos. 289,597–8; published Nov. 5, 1929. Class 46.

Texas Canning Company, Laredo, Tex. Canned vegetables, sauerkraut, and sauerkraut juice. 268,871; Mar. 18; Serial No. 285,536; published Jan. 7, 1930. Class 46.

Texas Preserving Company, Alvin, Tex. Preserved fruits. 268,737; Mar. 18; Serial No. 274,295; published Jan. 7, 1930. Class 46.

Thomas & Armstrong Company, The, London, Ohio. Metal silo. 268,919; Mar. 18. Class 2.

Thornton, Renée, New York, N. Y. Astringents, almond meal, bleach creams, etc. 268,779; Mar. 18; Serial No. 291,182; published Dec. 24, 1929. Class 6.

Tilden Company, The, New Lebanon, N. Y. Deodorizers and disinfectants. 268,701; Mar. 18; Serial No. 291,703; published Dec. 24, 1929. Class 6.

Toledo Rex Spray Company, The, Toledo, Ohio. Lighter fluid. 268,718; Mar. 18; Serial No. 278,148; published Dec. 31, 1929. Class 6.

Towle Syrup Company, The, St. Paul, Minn., assignor, by mesne assignments, to The Log Cabin Products Company, New York, N. Y. Syrups and molasses. 34,335; renewed Mar. 20, 1930.

Tragasol Products Limited, Hooton, near Birkenhead, England. Vegetable mucilage. 268,617; Mar. 18; Serial No. 261,847; published Dec. 31, 1929. Class 6.

Tragasol Products Limited, Hooton, near Birkenhead, England. Vegetable mucilage of hemicellulose constitution. 268,618; Mar. 18; Serial No. 261,846; published Jan. 7, 1930. Class 6.

Transformer Corporation of America, Chicago, Ill. Radio receiving sets, loud-speakers, transformers, etc. 268,564; Mar. 18; Serial No. 291,866; published Jan. 7, 1930. Class 21.

Trinidad Lake Petroleum Company Limited, The, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Brighton, Trinidad, B. W. I. Sanitary oil for use in lining ditches. 268,855; Mar. 18; Serial No. 270,562; published Dec. 31, 1929. Class 6.

Troponwerke Dinklage & Co., Cologne-Mulheim, Germany. Preparation for the treatment of nervous affections. 268,658; Mar. 18; Serial No. 289,604; published Dec. 17, 1929. Class 6.

Troponwerke Dinklage & Co., Cologne-Mulheim, Germany. Dietetic foods. 268,864; Mar. 18; Serial No. 289,607; published Dec. 17, 1929. Class 46.

U-Profit Cap Mfg. Co., Inc., Linden, N. J. Men's and boys' caps. 268,933; Mar. 18. Class 39.

United Fireproofing Corp., New York, N. Y. Fireproofing solutions and chemicals. 268,643–4; Mar. 18; Serial Nos. 291,151–2; published Dec. 24, 1929. Class 6.

United Pharmacal Laboratories. (See Beadle, Eugene E.)

United Shoe Machinery Corporation, Boston, Mass. Awls, hammers, pincers, etc. 268,515; Mar. 18; Serial No. 286,397; published Jan. 7, 1930. Class 23.

United Shoe Machinery Corporation, Boston, Mass. Adhesives. 268,640; Mar. 18; Serial No. 286,399; published Jan. 7, 1930. Class 5.

United States Radiator Corporation, Detroit, Mich. House-heating boilers. 268,791; Mar. 18; Serial No. 289,556; published Jan. 7, 1930. Class 34.

United States Rubber Company, New Brunswick, N. J. Shoes. 268,685; Mar. 18. Class 39.

United Wire Goods Mfg. Co., New York, N. Y. Bathroom fixtures. 268,786–7; Mar. 18; Serial Nos. 290,326–7; published Jan. 7, 1930. Class 13.

Valentine & Company, New York, N. Y. Primers, surfacers, and lacquers. 268,449; Mar. 18; Serial No. 292,914; published Jan. 7, 1930. Class 16.

Valley, Arthur, Manchester, N. H. Medicine for rheumatism. 268,721; Mar. 18; Serial No. 278,822; published Oct. 29, 1929. Class 6.

Valrose Chemical Co. (See Woolsey, Henry S.)

Vanderbilt Mills, Inc., New York, N. Y. Collars, pajamas, night robes, etc. 268,886; Mar. 18. Class 39.

Van Raalte Co. Inc., New York, N. Y. Combination undergarments of knitted silk fabric. 268,626; Mar. 18; Serial No. 225,456; published Mar. 16, 1926. Class 39.

Veeder-Root Incorporated, Hartford, Conn. Mechanical counting and indicating devices. 268,745; Mar. 18; Serial No. 273,482; published Dec. 31, 1929. Class 26.

Velvetknit Corporation, Syracuse, N. Y. Knitted cloth. 268,632; Mar. 18; Serial No. 290,805; published Dec. 31, 1929. Class 29.

Vitagenol Medicine Co., El Paso, Tex. General nutritive and restorative tonic. 268,691; Mar. 18; Serial No. 292,598; published Dec. 31, 1929. Class 6.

Vitalait Laboratory of California, Inc., The, Pasadena, Calif. Extract of whole ovaries and corpus luteum. 268,772; Mar. 18; Serial No. 292,189; published Dec. 24, 1929. Class 6.

Victor Balata & Textile Belting Co., New York, N. Y. Solid woven belt. 268,827–8; Mar. 18; Serial Nos. 291,956–7; published Dec. 31, 1929. Class 35.

Victor Goulash Co., Chicago, Ill. Goulash. 268,836; Mar. 18; Serial No. 289,858; published Dec. 31, 1929. Class 46.

Victory Racing Plate Company, The, Baltimore, Md. Horseshoes. 268,670; Mar. 18; Serial No. 283,857; published Dec. 31, 1929. Class 3.

Vivell, E. G. and A. H., Rio Piedras, P. R. Fruits. 78,217; renewed May 31, 1930.

Von Unruh, Henry W., doing business as Von's, Cincinnati, Ohio. Optical goods for use in human vision. 268,517; Mar. 18; Serial No. 285,954; published Jan. 7, 1930. Class 26.

Von's. (See von Unruh, Henry W.)

Vulcan Match Co., Inc., New York, N. Y. Matches. 268,829; Mar. 18; Serial No. 291,594; published Jan. 7, 1930. Class 9.

Walsh, Leo V., doing business as California Date Merchants, Los Angeles, Calif. Raw dates. 268,506; Mar. 18; Serial No. 287,166; published Jan. 7, 1930. Class 46.

Ward, Edna S., New York, N. Y. Bathing shoes. 268,927; Mar. 18. Class 39.

Washington Manufacturing Co., Nashville, Tenn. Work clothing. 268,748; Mar. 18; Serial No. 289,700; published Dec. 31, 1929. Class 39.

Weber, Frank C., & Company, Chicago, Ill. Coffee. 268,499; Mar. 18; Serial No. 289,951; published Jan. 7, 1930. Class 46.

Webster, William A., Company, The, Memphis, Tenn. Toothbrushes and shaving brushes. 268,575; Mar. 18; Serial No. 292,135; published Dec. 31, 1929. Class 29.

Webster, William A., Company, The, Memphis, Tenn. Dental cream. 268,600; Mar. 18; Serial No. 292,137; published Dec. 31, 1929. Class 6.

Welters, Edward A., Jacksonville, Fla. Perfumes and toilet waters. 268,704; Mar. 18; Serial No. 291,650; published Dec. 17, 1929. Class 6.

Westchester County Automotive Service Association, Inc., Yonkers, N. Y. Gasoline, kerosene, greases, etc. 268,563; Mar. 18; Serial No. 291,875; published Dec. 31, 1929. Class 15.

Westergaard, B., & Co., Brooklyn, N. Y. Food products. 268,504; Mar. 18; Serial No. 287,514; published Jan. 7, 1930. Class 46.

Western Cartridge Company, East Alton, Ill. Rifle cartridges. 268,486; Mar. 18; Serial No. 284,709; published Dec. 31, 1929. Class 9.

Western Electric Company, Incorporated, New York, N. Y. Electrical insulating compound. 268,550; Mar. 18; Serial No. 292,022; published Jan. 7, 1930. Class 21.

Western Electric Company, Incorporated, New York, N. Y. Sound-picture apparatus. 268,676; Mar. 18; Serial No. 282,690; published Jan. 7, 1930. Class 26.

Western Malt Products Co. (See Epstein, Max.)

Western Match Co., San Francisco, Calif. Matches. 268,888; Mar. 18. Class 9.

Western Shade Cloth Company, The, Chicago, Ill. Window-shade cloth. 268,813; Mar. 18; Serial No. 292,696; published Dec. 31, 1929. Class 42.

Western Stoneware Co., Portland, Me., and Monmouth, Ill., to Western Stoneware Company, Monmouth, Ill. Stoneware, crockery, and earthenware. 77,411; renewed Apr. 5, 1930.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric-lighting fixtures and fixture units. 268,531; Mar. 18; Serial No. 290,162; published Jan. 7, 1930. Class 21.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. 268,546; Mar. 18; Serial No. 292,379; published Jan. 7, 1930. Class 15.

Williams, Lewis S., doing business as E. Randall & Co., Romsey, England. Boot and shoe socks. 268,769; Mar. 18; Serial No. 286,525; published Jan. 7, 1930. Class 39.

Wiltshire Garment Co., Inc., Watertown, N. Y. Ladies' coats. 268,451; Mar. 18; Serial No. 292,380; published Jan. 7, 1930. Class 39.

Winship, Bolt & Co., Wakefield, Mass. Underwear. 268,460; Mar. 18; Serial No. 291,946; published Dec. 31, 1929. Class 39.

Wolcott, Incorporated, Hartford, Conn. Exercisers. 268,783; Mar. 18; Serial No. 287,271; published Dec. 31, 1929. Class 44.

Wolff & Owens, Hamilton, Ind. Fresh potatoes and onions. 268,906; Mar. 18. Class 46.

Wolverton, Marie K., doing business as Riddo-Girms Chemical Co., Detroit, Mich. Antiseptic and astringent powders. 268,671; Mar. 18; Serial No. 288,244; published Dec. 31, 1929. Class 6.

Woods, Marcus S., doing business as The M. S. Woods Company, Chattanooga, Tenn. Peach preserves, apple butter, grape jam, pickles, etc. 268,623; Mar. 18; Serial No. 247,878; published Jan. 7, 1930. Class 46.

Woolsey, Henry S., doing business as Valrose Chemical Co., Kingston, N. Y. Tablets having the properties of a tonic and body builder. 268,736; Mar. 18; Serial No. 274,687; published Dec. 31, 1929. Class 6.

Woonsocket Machine & Press Company, Incorporated, Woonsocket, R. I. Textile machinery. 268,910; Mar. 18. Class 23.

Wright Aeronautical Corporation, Paterson, N. J. Internal-combustion engines for aeronautical purposes. 268,812; Mar. 18; Serial No. 292,700; published Jan. 7, 1930. Class 23.

Yaffe, Anna, doing business as Yaffe Company, Philadelphia, Pa. Medicinal remedy. 268,738; Mar. 18; Serial No. 274,248; published Dec. 17, 1929. Class 6.

Yankee Polish Co., Inc, New York, N. Y. Dry cleaner. 268,770; Mar. 18; Serial No. 285,185; published Sept. 3, 1929. Class 4.

Zeiss, Carl, Jena, Germany. Reading glasses, ophthalmic lenses, eyeglasses, etc. 268,713; Mar. 18; Serial No. 280,866; published Jan. 7, 1930. Class 26.

Zerbst Pharmacal Company Inc., St. Joseph, Mo. Preparation for the treatment of constipation, sour stomach, etc. 268,778; Mar. 18; Serial No. 291,808; published Dec. 17, 1929. Class 6.

Zimmerman, G. F. S., & Company, to The G. F. S. Zimmerman Co., Inc., Frederick, Md., successor. Shutter fasteners. 78,221; renewed May 31, 1930.

Zipal Products Co., Rochester, N. Y. Bleaching liquid. 268,712; Mar. 18; Serial No. 281,184; published Dec. 31, 1929. Class 6.

Ziv Steel & Wire Company, Chicago, Ill. Drill and tool steel. 268,880–1; Mar. 18. Class 14.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Allentown Paint Manufacturing Company, The, Allentown, Pa. Kro-Kling. For Paints. 37,249; Mar. 18.

Bigelow-Clark, Inc., New York, N. Y. Bigeloil for Athletic and Family Use. For a Medicinal Oil Suitable for Both Human Beings and Animals and Intended for External Use. 37,250; Mar. 18.

Cederlunds, J., Söner, Stockholm, Sweden. Ronn Dykaree. For Flavoring Sirups and Sauces. 37,276; Mar. 18.

Early American Pewter Co., Boston, Mass. E-A-P Pewter, Early American Pewter Company. For Pewter. 37,251; Mar. 18.

Elsners Pearl Cream Company, Chicago, Ill. Pearl Cream. For Face Cream. 37,252; Mar. 18.

First National Laboratories Inc., Lehighton, Pa. Dr. Whites Hygenic Powder. For Powder for Personal Hygienic Use. 37,253; Mar. 18.

First National Laboratories Inc., Lehighton, Pa. Dr. Whites Hem-O-Ro Liquid Pile Medicine. For Medicine. 37,254; Mar. 18.

First National Laboratories Inc., Lehighton, Pa. Dr. Whites Hem-O-Ro Pile Pills. For Medicine. 37,255; Mar. 18.

First National Laboratories Inc., Lehighton, Pa. Dr. Whites Hem-O-Ro Pile Treatment. For Medicine. 37,256; Mar. 18.

First National Laboratories Inc., Lehighton, Pa. Dr. Whites Hem-O-Ro Liquid Pile Medicine. For Medicine. 37,257; Mar. 18.

First National Laboratories Inc., Lehighton, Pa. Dr. Whites Hygenic Powder. For Powder for Personal Hygiene. 37,258; Mar. 18.

General Nut Co., Chicago, Ill. Savigne Double Dipped Raisins. For Chocolate-Covered Raisins. 37,259; Mar. 18.

General Nut Co., Chicago, Ill. Savigne Double Dipped Jumbo Peanuts. For Chocolate-Covered Peanuts. 37,260; Mar. 18.

Gold Bond Sterilizing Powder Co., Incorporated, Fairhaven, Mass. Gold Bond. For Baby Powder. 37,261; Mar. 18.

Grand Union Company, The, New York, N. Y. Freshbake. For Bread. 37,262; Mar. 18.

Greek Burn Remedy Co., New York, N. Y. Antikauma. For a Salve. 37,263; Mar. 18.

Gummed Products Company, The, Troy, Ohio. Play Tape for the Kiddies. For Gummed Paper. 37,264; Mar. 18.

Hammond, Mrs. M. A., Woodward, Okla. T. B. K. Liniment. For Liniment. 37,265; Mar. 18.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Globe White Lime Finish. For Polishing Abrasive. 37,266; Mar. 18.

Helms, Frank T., San Diego, Calif. Dixie Duke's Famous Hamburgs. For Sandwiches. 37,267; Mar. 18.

Kasper, A. J., Company, Chicago, Ill. Kasper's Sip of Gold Coffee. For Coffee. 37,268; Mar. 18.

Montana Flour Mills Company, Great Falls, Mont. Montana Sapphire Bread. For Bread. 37,269; Mar. 18.

National Pepsin Gum Company, San Francisco, Calif. Zansa-Gum. For Chewing Gum. 37,270; Mar. 18.

Navytone Co., The, Philadelphia, Pa. Shine Proof. For Garments. 37,271; Mar. 18.

Richman & Samuels Inc., New York, N. Y. Sue-Preme. For Fresh Grapes. 37,272; Mar. 18.

Ronsone, M., doing business as Sweetheart Baking Company, Elkhart, Ind. Football Bread. For Bread. 37,273; Mar. 18.

Schaub, Arnold A., Buffalo, N. Y. Schaub's Dixie Brand Products. For Potato Chips. 37,274; Mar. 18.

Senorita Hosiery Company, Dallas, Tex. Senorita Hosiery. For Hosiery. 37,275; Mar. 18.

Sweetheart Baking Company. (See Ronsone, M.)

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Champion Hardware Company, The, Geneva, Ohio. Champion Hardware for Better Buildings. For Hardware. 12,450; Mar. 18.

G. H. P. Cigar Co., Inc., Philadelphia, Pa. El Producto for Real Enjoyment. For Cigars. 12,452; Mar. 18.

Mannings, Inc., San Francisco, Calif. Coffee Fresh as the Dawn. For Coffee. 12,453; Mar. 18.

Marshall Field & Company, Chicago, Ill. La France. For Hosiery. 12,451; Mar. 18.

Moxie Company of America, The, Boston, Mass. Drink Moxie Distinctively Different. For Beverages. 12,454; Mar. 18.

Moxie Company of America, The, Boston, Mass. Frank Archer Says—Moxie is the Best 10 Cent Drink in the World. For Beverages. 12,455; Mar. 18.

Schnabel, Walter, New York, N. Y. The New and Better Suspenders. For Suspenders. 12,456; Mar. 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Albany Door Company, Albany, N. Y. Tables, table tops, chairs, etc. 283,837; Mar. 18. Class 32.
Alltex Piston Ring Company, Brooklyn, N. Y. Piston rings. 295,201; Mar. 18. Class 35.
Aluminum Goods Manufacturing Co., Manitowoc, Wis. Electric percolators, baby-bottle warmers, and lamps. 294,333; Mar. 18. Class 21.
American Eagle Aircraft Corporation, Kansas City, Kans. Airplanes. 295,245; Mar. 18. Class 19.
Amos 'N' Andy Doll Co., New York, N. Y. Dolls. 295,323; Mar. 18. Class 22.
Anchor Sawmills Company, Pelham Manor, N. Y. Canoe paddles. 294,659; Mar. 18. Class 19.
Anciens Etablissements Baignol et Farjon, Boulogne-Sur-Mer, France. Cologne, toilet waters, bath salts, etc. 292,919; Mar. 18. Class 6.
Andrews, George, Winter Haven, Fla. Fresh oranges and grapefruit. 294,379; Mar. 18. Class 46.
Andy's Chocolate Shops, Inc., Chicago, Ill. Candies. 295,500; Mar. 18. Class 46.
Automobile Owners Association of America, Baltimore, Md. Maps. 295,146; Mar. 18. Class 38.
Avenarius, R., & Co., Stuttgart, Germany. Chemical preparations. 295,203; Mar. 18. Class 6.
Bacon Banjo Co., Inc., The, Groton, Conn. Banjo. 294,910; Mar. 18. Class 36.
Baker, Geo., & Sons, Inc., Brockton, Mass. Tacks. 293,402; Mar. 18. Class 13.
Bamberger, L., & Co., Newark, N. J. Hair nets. 289,225; Mar. 18. Class 42.
Bankette Co., The Boston, Mass. Pocket coin holders. 295,325; Mar. 18. Class 3.
Biggs & Black, Inc., New York, N. Y. Rubber tires. 284,159; Mar. 18. Class 35.
Black Servant Manufacturing Company, St. Louis, Mo. Coal stokers for furnaces. 294,382; Mar. 18. Class 34.
Blackman & Blackman, Inc., New York, N. Y. Bandages. 284,606; Mar. 18. Class 44.
Blair Bros., Chicago, Ill. Ladies' ready-to-wear clothes. 294,867; Mar. 18. Class 39.
Blosser Company, The, Atlanta, Ga. Medicinal smoking preparations. 294,208; Mar. 18. Class 6.
Boswell, Paul W., doing business as Boswell Oil Company, Cincinnati, Ohio. Publication. 295,292; Mar. 18. Class 38.
Brooklyn Overall Co., Brooklyn, N. Y. Overalls. 294,868; Mar. 18. Class 39.
Brooks, Burleigh, New York, N. Y. Cameras. 294,844; Mar. 18. Class 26.
Brown, Victor, doing business as Victor Brown Co., New York, N. Y. Women's silk underwear. 294,758; Mar. 18. Class 39.
Browning, King & Co., New York, N. Y. Handkerchiefs. 296,148; Mar. 18. Class 42.
Burnett, George H., jr., Houston, Tex. Mechanical toy. 291,045; Mar. 18. Class 22.
Carroll, Chas. C., Jacksonville, Fla. Medicinal preparation. 290,451; Mar. 18. Class 6.
Carroll, Thomas F., New York, N. Y. Treated cleaning, polishing, and wiping cloths. 294,286; Mar. 18. Class 4.
Cassoff, L. Francis, doing business as The Central Paint and Varnish Works, Brooklyn, N. Y. Paint, paint enamels, varnishes, etc. 294,247; Mar. 18. Class 16.
Catherine's Chemical Laboratory, Oklahoma City, Okla. Vapo balm or ointment. 294,470; Mar. 18. Class 6.
Causa y Ramirez, Angeles, Habana, Cuba. Medicinal preparation. 295,328; Mar. 18. Class 6.
Celanese Corporation of America, New York, N. Y. Fabrics. 294,918; Mar. 18. Class 42.
Central Alloy Steel Corporation, doing business as Toncan Culvert Manufacturers Association, Massillon, Ohio. Culvert gates. 293,870; Mar. 18. Class 13.
Central Paint and Varnish Works, The. (See Cassoff, L. Francis.)
Chain Belt Company, Milwaukee, Wis. Mechanism for automatically controlling the sequence of operation of concrete mixers. 295,115; Mar. 18. Class 23.
Charlestein, Julius, doing business as Premier Dental Products Co., Philadelphia, Pa. Alloy, cement, impression compounds, etc. 294,622; Mar. 18. Class 44.
Chidlow, Dorothy C., Fort Myers, Fla. Bread and biscuits. 291,324; Mar. 18. Class 46.
Cleveland Heater Company, The, Cleveland, Ohio. Blow-off valves, gas cocks, relief valves, etc. 276,516; Mar. 18. Class 13.
Conde Nast Publications, Inc., The, New York, N. Y. Paper dress patterns. 294,341; Mar. 18. Class 26.
Corduroy Tire Company, Grand Rapids, Mich. Vehicle tires. 295,558; Mar. 18. Class 35.
Creger, Matilda, doing business as Dicitrin Laboratories, Los Angeles, Calif. Chemicals, medicines, toilet preparations, etc. 292,657; Mar. 18. Class 6.
Crescent Metal Works, Inc., Newark, N. J. Ornamental articles made of molded metal. 281,990; Mar. 18. Class 50.

Crown Willamette Paper Company, San Francisco, Calif. Sulfite wrapping paper. 294,506; Mar. 18. Class 37.
Crown Willamette Paper Company, San Francisco, Calif. Sulfite paper for printing. 294,508; Mar. 18. Class 37.
Curellio G. m. b. H., Wernigerode, near the Hars, Germany. Preparations for the hair. 293,822; Mar. 18. Class 6.
Daily Graphic, Inc., New York, N. Y. Series of cartoons or comic strips. 295,424; Mar. 18. Class 38.
De Coursey Creamery Company, Kansas City, Kans. Ice cream. 287,455; Mar. 18. Class 46.
De Musset, Inc., New York, N. Y. Perfumes, face powders and creams, rouge, etc. 295,118; Mar. 18. Class 6.
Diamond Match Company, The, Chicago, Ill. Dishes of paper or fibre. 294,208; Mar. 18. Class 2.
Diamond Match Company, The, Chicago, Ill. Dishes of paper or fibre. 294,210; Mar. 18. Class 2.
Dicitrin Laboratories. (See Creger, Matilda.)
Dilling & Company, Indianapolis, Ind. Candy. 277,057; Mar. 18. Class 46.
D'-Ox Products Co., Inc., New York, N. Y. General cleanser. 294,626; Mar. 18. Class 4.
Dorman, Benjamin, Brooklyn, N. Y. Olive oil. 283,182; Mar. 18. Class 46.
Dunlop's Jno., Sons, Inc. (See Spurr, Gregory W., trustee.)
Eastman Kodak Company, Rochester, N. Y. Developing powders. 294,961; Mar. 18. Class 6.
Electrolux, Inc., New York, N. Y. Electrical floor polishers and vacuum cleaners and parts therefor. 284,978; Mar. 18. Class 21.
Empire Stamp Company, Imperial, Calif. Trading stamps and coupons. 295,837; Mar. 18. Class 38.
Everwine, Charles L., Newark, N. J. Mechanical device for use for the removal of carbon from combustion chambers and valves thereof. 294,151; Mar. 18. Class 23.
Excelsior Macaroni Company, Inc., Brooklyn, N. Y. Cornstarch. 294,963; Mar. 18. Class 46.
Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Periodical. 295,368; Mar. 18. Class 38.
Fawcet Publications, Inc., Robbinsdale, Minn. Magazines. 295,840; Mar. 18. Class 38.
Ferris & Wright of New York City. (See Gray, Elsie.)
Field Publications, Inc., New York, N. Y. Periodical. 294,475; Mar. 18. Class 38.
Fire-O-Matic, Inc., Portland, Oreg. Comminuted-hard-fuel burners. 289,923; Mar. 18. Class 34.
First National Stores Inc., Boston and Somerville, Mass. Clotheslines. 295,668; Mar. 18. Class 7.
First National Stores Inc., Boston and Somerville, Mass. Ginger ale, vanilla soda, root beer, etc. 295,665; Mar. 18. Class 45.
Franklin Pottery (Inc.), Lansdale, Pa. Wall and floor tiles. 283,110; Mar. 18. Class 12.
Franklin Steel Works, Joliet, Ill. Toe calks for horseshoes. 294,667; Mar. 18. Class 8.
Friedlander, A. L., doing business as B. Friedlander & Sons, San Francisco, Calif. Knit underwear, pajamas, and nightgowns. 293,577; Mar. 18. Class 39.
Fuller, W. P., & Co., San Francisco, Calif. Sand-blast wood. 293,318; Mar. 18. Class 12.
Gay Brothers Company, Cavendish, Vt. Woolen piece goods. 295,671; Mar. 18. Class 42.
Gemex Company, Newark, N. J. Watch bracelets, straps, and attachments, neck chains, etc. 294,512–8; Mar. 18. Class 28.
Gemex Company, Newark, N. J. Watch bracelets, straps, and attachments, neck chains, etc. 294,515–20; Mar. 18. Class 28.
General Electric Company, Schenectady, N. Y. Shut-off valves. 293,995; Mar. 18. Class 13.
Gray, Elsie, doing business as Ferris & Wright of New York city, Flushing, N. Y. Tonic medicine. 294,772; Mar. 18. Class 6.
Grunewald Novick Company, Chicago, Ill. Dresses for misses. 294,250; Mar. 18. Class 39.
Guy Motors Ltd., Wolverhampton, England. Automobiles, motor boats, aeroplanes, and motor cycles. 294,633; Mar. 18. Class 19.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods made of silk, cotton, and wool. 294,069; Mar. 18. Class 42.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods of silk, cotton, and wool. 295,618; Mar. 18. Class 42.
Hagerty, P., Shoe Company, The, Washington Court House, Ohio. Shoes. 293,138; Mar. 18. Class 39.
Hampden Automotive Products, Inc., Springfield, Mass. Mud guards. 295,370; Mar. 18. Class 19.
Hand, Mollie R., Norwich, N. Y. Mustard. 293,622; Mar. 18. Class 46.
Heddon's, James, Sons, Dowagiac, Mich. Artificial baits. 295,429; Mar. 18. Class 22.
"Heilit" Chemisches Laboratorium Inh. Apotheker Wigner & Goedicke, Salzwedel, Germany. Medicinal tea. 282,820; Mar. 18. Class 6.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Herbert & Company, Detroit, Mich. Nail and cuticle brushes. 295,477; Mar. 18. Class 29.
Hilliard's Glass House Goodies, Inc., Boston and West Roxbury, Mass. Chocolates, hard candies, and bonbons. 287,925; Mar. 18. Class 46.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Artificial silk thread and artificial spinning fibers. 294,156; Mar. 18. Class 42.
Industrial Chemical Sales Company, Inc., New York, N. Y. Diatomaceous earth. 294,638; Mar. 18. Class 1.
Ingalls Iron Works Co., The, Birmingham, Ala. Babbitt and bearing metals. 292,568; Mar. 18. Class 14.
International Casement Company, Jamestown, N. Y. Casement windows. 286,637; Mar. 18. Class 12.
International Printing Ink Corporation, The, New York, N. Y. Ink, stamp pads, and inking ribbons. 294,533; Mar. 18. Class 11.
International Printing Ink Corporation, The, New York, N. Y. Varnishes and lacquers. 294,534; Mar. 18. Class 16.
Jacksom Viola, doing business as W. V. L. Jackson, Catskill, N. Y. Salve. 291,510; Mar. 18. Class 6.
Janov-Abeles, I., Shirt Co., New York, N. Y. Shirts. 290,255; Mar. 18. Class 39.
Johnson, Marjorie, Inc., New York, N. Y. Finishing lotion, foundation cream, rouges, etc. 293,788; Mar. 18. Class 6.
Kohrs Packing Company, Iowa City and Davenport, Iowa. Pork link sausage. 295,680; Mar. 18. Class 46.
Krafft & Schüll, Duren, Germany. Hooks, eyes, and buckles. 285,276; Mar. 18. Class 40.
Laboratoire de Pharmacologie, Inc., New York, N. Y. Horse-radish syrup. 295,182; Mar. 18. Class 6.
Ladd, H. L., Chemist, Inc., San Francisco, Calif. Antacid and digestant. 289,356; Mar. 18. Class 6.
Leather Finish Fabrics, Inc., Newark, N. J. Leather substitutes. 294,268; Mar. 18. Class 50.
Lebanon Textile Mills, Inc., Lebanon, Pa. Play suits, overalls, knickers, etc. 295,682; Mar. 18. Class 39.
Levy & Anspach, New York, N. Y. Piece goods of silk, rayon, cotton, and mixtures thereof. 292,950; Mar. 18. Class 42.
Lookout Chemical Co., Chattanooga, Tenn. Cleanser for automobiles, rugs, bathtubs, etc. 278,133; Mar. 18. Class 4.
Lotan Products Company, The, Cleveland, Ohio. Medicine. 278,473; Mar. 18. Class 6.
Ludlow Laboratories Inc., Chicago, Ill. Deodorant. 295,523; Mar. 18. Class 6.
Mac Blade and Razor Wks. (See MacNair, Hugh S.)
Mac Blade Works. (See MacNair, Hugh S.)
MacNair, Hugh S., doing business as Mac Blade and Razor Wks., Fremont, Ohio. Razors. 295,526; Mar. 18. Class 23.
MacNair, Hugh S., doing business as Mac Blade Works, Fremont, Ohio. Razor blades. 295,527; Mar. 18. Class 23.
Madera Sugar Pine Company, San Francisco, Calif. Lumber. 291,730; Mar. 18. Class 12.
Mallinson, H. R., & Company, Inc., New York, N. Y. Silk piece goods. 295,076; Mar. 18. Class 42.
Manufacture Metallurgique de Tournus, Tournus, France. Knives, forks, spoons, etc. 291,992; Mar. 18. Class 23.
Mercurio Bros. Spaghetti Mfg. Co., St. Louis, Mo. Alimentary products. 290,715; Mar. 18. Class 46.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Medicinal preparation. 294,164; Mar. 18. Class 6.
Meyers, A., & Sons, New York, N. Y. Pins. 286,375; Mar. 18. Class 40.
Milbrandt, Gottfried, Croswell, Mich. Bitters, catarrh medicine, fever powder, etc. 283,577; Mar. 18. Class 6.
Milton, Lloyd W., doing business as Milton Laboratories, Chicago, Ill. Metal-polishing cream, windshield cloth, and glass cleaner. 287,261; Mar. 18. Class 4.
Milwaukee Lubricants Co., Milwaukee, Wis. Powdered soap. 287,193; Mar. 18. Class 4.
Missouri Chromium Plating Company, St. Louis, Mo. Metal cleaner and polish. 294,167; Mar. 18. Class 4.
Mohawk Rubber Company, The, Akron, Ohio. Vehicle tires and inner tubes. 295,744; Mar. 18. Class 35.
Morris & Company, Incorporated, Baltimore, Md. Cotton piece goods. 294,360; Mar. 18. Class 42.
Motologue Advertising Corporation, New York, N. Y. Advertising signs. 293,062; Mar. 18. Class 50.
National Washboard Company, Chicago, Ill. Washboards. 294,990; Mar. 18. Class 24.
Neuman, Nathan, Philadelphia, Pa. Sweaters, knitted jackets, and bathing suits. 293,680; Mar. 18. Class 39.
New Metropolitan Fiction, Inc., New York, N. Y. Magazine. 295,081; Mar. 18. Class 38.
North American Polish Company, The, Cleveland, Ohio. Soaps, scouring powders, spot removers, etc. 266,946; Mar. 18. Class 4.
Northern Illinois Cereal Company, Lockport, Ill. Grits. 295,747; Mar. 18. Class 46.
Northland Milling Company, Minneapolis, Minn. Wheat flour. 251,400; Mar. 18. Class 46.
Oelwein Chemical Company, Oelwein, Iowa. Mineral compounds. 292,592; Mar. 18. Class 6.
Ohio Wax Paper Company, The, Columbus, Ohio. Wrapping paper. 294,082; Mar. 18. Class 37.

Otesaga Silk Co. (See Spurr, Gregory W., trustee.)
Pabst Corporation, Milwaukee, Wis. Cereal malt beverages. 294,274; Mar. 18. Class 48.
Parfumerie Roger et Gallet, Société Anonyme, Paris, France. Soaps. 275,293; Mar. 18. Class 4.
Pasteurol Company. (See Ruskin, Simon L.)
Peabody and Company, Chicago, Ill. Publications. 295,346; Mar. 18. Class 38.
Penn-Standard Sole Cementing Process, Inc., Philadelphia, Pa. Bottom finish for shoe soles. 294,889–90; Mar. 18. Class 6.
Perkins Dry Goods Company, Dallas, Tex. Hosiery. 288,721; Mar. 18. Class 39.
Pfaffinger, Maxmillian, doing business as Quality Poultry Ranch, Van Nuys, Calif. Preparation used in the treatment of poultry diseases. 294,686; Mar. 18. Class 6.
Pharis Tire and Rubber Company, The, Newark, Ohio. Rubber tires, casings, and tubes. 295,134; Mar. 18. Class 35.
Phi Alpha Delta Law Fraternity, Los Angeles, Calif. Fraternity badges, lapel buttons, cuff links, etc. 292,368; Mar. 18. Class 28.
Pittsburgh Waterproof Company, Pittsburgh, Pa. Tarpaulins. 294,240; Mar. 18. Class 50.
Powell & Goldstein, Inc., Oneida, N. Y. Tobacco. 292,508; Mar. 18. Class 17.
Premier Dental Products Co. (See Charlestein, Julius.)
Priddy, Chas. W., & Company, Incorporated, Norfolk, Va. Fertilizer. 278,807; Mar. 18. Class 10.
Quality Poultry Ranch. (See Pfaffinger, Maxmillian.)
Rhoads, J. E., & Sons, Philadelphia, Pa. U leathers, cap, hat, or fange leathers. 295,389; Mar. 18. Class 35.
Rickel, Walter J., Chicago, Ill. Materials to be used in place of sugar. 292,751; Mar. 18. Class 46.
Ritter, W. M., Lumber Company, Columbus, Ohio. Rough and dressed lumber. 289,992; Mar. 18. Class 12.
Rohm & Haas Company, Philadelphia, Pa. Preparation for dehairing hides and preparing them for tanning. 294,544; Mar. 18. Class 6.
Roxalin Flexible Lacquer Company, Incorporated, Long Island City, N. Y. Lacquers and lacquer enamels. 291,478; Mar. 18. Class 16.
Ruskin, Simon L., doing business as Pasteurol Company, Brooklyn, N. Y. Medicinal preparation. 295,587; Mar. 18. Class 6.
Safeway Sales Corporation, Boston, Mass. Merchandise and photograph envelopes. 294,827; Mar. 18. Class 2.
Schlosser, M. & F. Paper Corporation, New York, N. Y. Writing paper, correspondence cards, and envelopes. 292,052; Mar. 18. Class 37.
Schulze, Paul, Biscuit Co., Chicago, Ill. Crackerlike or biscuitlike food product. 295,539; Mar. 18. Class 46.
Serval System. (See Stiles, Dudley H.)
Shelby Canning Co., Shelbyville, Ind. Canned vegetables. 295,696; Mar. 18. Class 46.
Sherwin & Jaller, New York, N. Y. Boys' shirts and blouses. 295,085; Mar. 18. Class 39.
Siegel, William, doing business as Williams Specialty Co., New York, N. Y. Tonic. 294,089; Mar. 18. Class 6.
Simmons-Boardman Publishing Co., New York, N. Y. Magazine. 278,754; Mar. 18. Class 38.
Simons Brothers, Charleston and Johns Island, S. C. Grape juice. 287,020; Mar. 18. Class 45.
Sloan Valve Company, Chicago, Ill. Valves. 286,846; Mar. 18. Class 13.
Smith, Elmer, Wichita, Kans. Salve. 294,930; Mar. 18. Class 6.
Sprague & Carleton, Inc., Keene, N. H. Seftees and chairs. 295,446; Mar. 18. Class 32.
Spurr, Gregory W., trustee for Jno. Dunlop's Sons, Inc., doing business as Otesaga Silk Co., New York, N. Y. Silk piece goods. 295,580; Mar. 18. Class 42.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Insecticides, deodorants, disinfectants, etc. 290,623; Mar. 18. Class 6.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Solvents for paints. 293,044; Mar. 18. Class 16.
Stiles, Dudley H., doing business as Serval System, Kansas City, Kans. Portable accounting records, individual record sheets, and tables of figures. 283,402; Mar. 18. Class 37.
Strohmeyer & Arpe Company, doing business as United Pure Food Co., New York, N. Y. Canned fish, canned vegetables, olives in bulk, and antipasto. 293,608; Mar. 18. Class 46.
Structural Slate Co., The, Pen Argyl, Pa. Slate products. 294,597; Mar. 18. Class 13.
Structural Slate Co., The, Pen Argyl, Pa. Slate products. 294,600; Mar. 18. Class 13.
Swartzbaugh Manufacturing Co., The, Toledo, Ohio. Electric inhaler device. 294,746; Mar. 18. Class 44.
Taylor, G. C., Co., Fairport, N. Y. Soap powder. 289,305; Mar. 18. Class 4.
"Tech Laboratories." (See Teubner, Karl L.)
Teubner, Karl L., doing business as "Tech Laboratories," Ashville, N. C. Polish. 294,497; Mar. 18. Class 16.
Texas Coffee Company, Incorporated, Beaumont, Tex. Coffee. 293,198; Mar. 18. Class 46.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Thomas, Florence L., Palo Alto, Calif. Art paints and plastic or stucco paint and paint diluter. 282,380; Mar. 18. Class 16.

Titanium Alloy Manufacturing Company, The, Niagara Falls, N. Y. Ceramic materials. 294,934; Mar. 18. Class 6.

Toncan Culvert Manufacturers Association. (See Central Alloy Steel Corporation.)

Ullman Manufacturing Co., The, Long Island City, N. Y. Large toy crayons for children. 292,836; Mar. 18. Class 37.

United Pure Food Co. (See Strobmeyer & Arpe Company.)

Utility Manufacturing Co., Inc., Baltimore, Md. Strainers, plain ladles, soap savers, etc. 294,098; Mar. 18. Class 13.

Utility Manufacturing Co., Inc., Baltimore, Md. Strainers, plain ladles, soap savers, etc. 294,100; Mar. 18. Class 13.

Valway Rug Mills, Inc., Lagrange, Ga. Textiles. 276,672; Mar. 18. Class 42.

Van Camp Packing Company, Incorporated, The, Indianapolis, Ind. Canned foods. 294,652; Mar. 18. Class 46.

Van Camp Packing Company, Incorporated, The, Indianapolis, Ind. Canned foods and canned vegetable juices. 294,653; Mar. 18. Class 46.

Van Camp Packing Company, Incorporated, The, Indianapolis, Ind. Canned tomato juice. 294,654; Mar. 18. Class 46.

Van Dyk, James, Company, New York, N. Y. Butter and eggs. 295,586; Mar. 18. Class 46.

Van Dyk, James, Company, New York, N. Y. Coffee. 295,587; Mar. 18. Class 46.

Vulcan Match Co., Inc., New York, N. Y. Matches. 291,643; Mar. 18. Class 9.

Waukesha Pure Spring Water Company, Mukwonago, Wis. Medicated spring water. 295,704; Mar. 18. Class 45.

Waukesha Pure Spring Water Company, Mukwonago, Wis. Spring water. 295,705; Mar. 18. Class 45.

Weber Oil Company, Inc., New York, N. Y. Lubricating oils. 293,504; Mar. 18. Class 15.

Wertheimer, Moses, Philadelphia, Pa. Children's combination garment. 294,033; Mar. 18. Class 39.

Western Electric Company, Incorporated, New York, N. Y. Apparatus for recording sound effects upon and projecting sound effects from records of the phonograph type and parts thereof. 291,648; Mar. 18. Class 36.

Whaley-Eaton Service, Inc., Washington, D. C. Publication. 295,822; Mar. 18. Class 38.

Whittemore Bros. Corp., Cambridge, Mass. Powder for cleaning and recoloring all undressed leathers. 294,455; Mar. 18. Class 4.

Williams, John T., jr., doing business as Williams & Co., Brooklyn, N. Y. Two per centum (2%) solution of the drug dibrom-oxymercuri fluorescein. 294,832; Mar. 18. Class 6.

Williams Specialty Co. (See Siegel, William.)

Wilson Brothers, Chicago, Ill. Neckties and cravats. 295,703; Mar. 18. Class 39.

Wisconsin Land & Lumber Co., Hermansville, Mich. Lumber, hardwood flooring, and shingles. 293,860; Mar. 18. Class 12.

Wishnick-Tumpeer, Inc., New York, N. Y. Carbon black. 290,865; Mar. 18. Class 16.

Wright Metal Incorporated, Jamestown, N. Y. Partitions. 281,329; Mar. 18. Class 12.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal. Chemical Charcoal Company. 33,753; renewed Nov. 14, 1929.

Furs and skins. J. Laskin & Sons, Inc. 268,876–7; Mar. 18.

Pelts, Raw fox. Fromm Bros., Inc. 268,908; Mar. 18.

Seeds, Garden, vegetables, flower, and field. W. Atlee Burpee Co. 268,925; Mar. 18.

CLASS 2

Bins, pails, buckets, and parts thereof, Galvanized. Schmidt & Melmer. 268,774; Mar. 18; Serial No. 291,937; published Jan. 7, 1930.

Bottles, fuel and storage tanks, Siphon. J. Loeb. 268,788; Mar. 18; Serial No. 290,217; published Jan. 7, 1930.

Boxes, cases, and flasks. Societe Industrielle de Realisation Artistique Anciens Etablissements Berlan, Lederlin et Cie. (Societe Anonyme). 268,740; Mar. 18; Serial No. 274,019; published Jan. 7, 1930.

Cans, Paper. Graham Paper Company. 268,899; Mar. 18.

Cartons. Stanco Incorporated. 268,783; Mar. 18; Serial No. 290,620; published Jan. 7, 1930.

Cases, Shipping. Container Corporation of America. 268,780; Mar. 18; Serial No. 291,050; published Jan. 7, 1930.

Silo, Metal. Thomas & Armstrong Company. 268,919; Mar. 18.

CLASS 3

Harness and saddlery. Dodson, Fisher, Brockmann Company. 34,265; renewed Feb. 27, 1930.

Horseshoes. Victory Racing Plate Company. 268,670; Mar. 18; Serial No. 283,357; published Dec. 31, 1929.

Portfolios, pocketbooks, wallets, key cases. Brown & Bigelow. 268,608; Mar. 18; Serial No. 258,017; published Jan. 7, 1930.

Valises, suitcases, trunks, etc. Societa Invensioni Brevetti Anonima-Torino. 268,847; Mar. 18; Serial No. 271,778; published Dec. 31, 1929.

Valises, suitcases, trunks, etc. Societa Invensioni Brevetti Anonima-Torino. 268,851; Mar. 18; Serial No. 271,773; published Dec. 31, 1929.

Wallets and bill folds. Seco Leather Products Company. 268,634–5; Mar. 18; Serial Nos. 290,668–9; published Dec. 31, 1929.

Wallets and bill folds. Seco Leather Products Company. 268,636–7; Mar. 18; Serial Nos. 290,665–6; published Dec. 31, 1929.

CLASS 4

Cleaner, Dry. Yankee Polish Co. 268,770; Mar. 18; Serial No. 285,185; published Sept. 3, 1929.

CLASS 5

Adhesive rubber cement. Holtite Mfg. Co. 268,569–71; Mar. 18; Serial Nos. 292,166–8; published Jan. 7, 1930.

Adhesives. United Shoe Machinery Corporation. 268,640; Mar. 18; Serial No. 286,399; published Jan. 7, 1930.

CLASS 6

Alcohol and methylated spirits, Denatured. Canadian Industrial Alcohol Company Limited. 268,653; Mar. 18; Serial No. 291,498; published Jan. 7, 1930.

Ameliorative. P. Lattanzio. 268,599; Mar. 18; Serial No. 292,405; published Dec. 31, 1929.

Antacid corrective for stomach distress, Carminative. A. H. Lewis Medicine Co. 268,593; Mar. 18; Serial No. 292,675; published Dec. 31, 1929.

Antiseptic. E. R. Squibb & Sons. 268,694; Mar. 18; Serial No. 292,375; published Dec. 24, 1929.

Antiseptic mosquito balm. H. A. Randall. 268,875; Mar. 18; Serial No. 289,162; published Dec. 31, 1929.

Antiseptic mouth wash. Chemische Werke vorm. dr. Heinrich Byk. 78,065; renewed May 31, 1930.

Antiseptics. Pepsodent Co. 268,696; Mar. 18; Serial No. 292,228; published Dec. 24, 1929.

Astringents, almond meal, bleach creams, etc. B. Thornton. 268,779; Mar. 18; Serial No. 291,182; published Dec. 24, 1929.

Baking powder. F. B. Chamberlain Company. 77,628; renewed Apr. 26, 1930.

Baking powder. Royal Baking Powder Company. 78,828; renewed July 12, 1930.

Baking powder. Standard Brands Incorporated. 268,699; Mar. 18; Serial No. 292,184; published Dec. 31, 1929.

Brominized oils. Abbott Laboratories. 268,703; Mar. 18; Serial No. 291,651; published Dec. 24, 1929.

Capsules. Jay G. Hobson & Co. Inc. 268,595; Mar. 18; Serial No. 292,532; published Dec. 31, 1929.

Capsules. W. P. Mooney. 268,777; Mar. 18; Serial No. 291,632; published Dec. 31, 1929.

Chemical materials. Parker Rust-Proof Company. 268,659; Mar. 18; Serial No. 288,302; published Dec. 3, 1929.

Chemical preparation. American Mining & Chemical Co. 268,594; Mar. 18; Serial No. 292,647; published Jan. 7, 1930.

Chemical preparation. J. B. Gildersleeve. 268,609; Mar. 18; Serial No. 292,206; published Dec. 31, 1929.

Chemical preparations. Benzit Aktiengesellschaft. 268,700; Mar. 18; Serial No. 291,865; published Dec. 24, 1929.

Chemical washing fluid. P. Biancone. 268,784; Mar. 18; Serial No. 290,445; published Dec. 24, 1929.

Citrus oils and citric acid. California Fruit Growers Exchange. 268,616; Mar. 18; Serial No. 262,797; published Dec. 17, 1929.

Compound. C. P. Hall. 268,541; Mar. 18; Serial No. 292,355; published Dec. 31, 1929.

Compound for all cement mixture, Quick-setting. Sullivan Company. 268,688; Mar. 18; Serial No. 292,688; published Dec. 31, 1929.

Cream, Dental. William A. Webster Company. 268,600; Mar. 18; Serial No. 292,137; published Dec. 31, 1929.

Cream, lip stick, face powder, and perfume, Vanishing. M. B. Olmsted. 268,645; Mar. 18; 291,186; published Dec. 31, 1929.

Creams, massage cream, hair dye, etc., Cold. M. C. Oglesby. 268,662; Mar. 18; Serial No. 286,259; published Dec. 31, 1929.

Deodorizers and disinfectants. Tilden Company. 268,701; Mar. 18; Serial No. 291,703; published Dec. 24, 1929.

Depilatory. Neet, Incorporated. 268,789; Mar. 18; Serial No. 290,141; published Dec. 24, 1929.

Digestant, Antacid. NaDox Co. 268,781; Mar. 18; Serial No. 291,887; published Dec. 17, 1929.

Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 268,776; Mar. 18; Serial No. 291,914; published Dec. 24, 1929.

Extract of whole ovaries and corpus luteum. Vitalait Laboratory of California, Inc. 268,772; Mar. 18; Serial No. 292,189; published Dec. 24, 1929.

Fluxes. Grasselli Chemical Company. 268,601; Mar. 18; Serial No. 292,106; published Dec. 31, 1929.

Haemoglobin preparations. F. G. Sauer. 34,742; renewed June 5, 1930.

Hairdressing. Theo. A. Kochs Company. 268,523; Mar. 18; Serial No. 292,214; published Dec. 24, 1929.

Hair restorer. Barlow and Grisler Mfg. Co. 268,782; Mar. 18; Serial No. 290,871; published Dec. 17, 1929.

Hair restorer and hair dye. S. Martin. 268,874; Mar. 18; Serial No. 289,198; published Dec. 17, 1929.

Hair restorer, Natural. Louis Natural Hair Restorer Company. 268,873; Mar. 18; Serial No. 289,319; published Dec. 17, 1929.

Hair-waving supplies, Permanent. Chaney Products, Inc. 268,602; Mar. 18; Serial No. 292,097; published Jan. 7, 1930.

Insecticide. M. & B. Products Co. 268,693; Mar. 18; Serial No. 292,408; published Dec. 31, 1929.

Insecticide for roaches, etc. B. Cohen. 268,689; Mar. 18; Serial No. 292,615; published Dec. 31, 1929.

Insecticides, deodorants, and disinfectants. Stanco, Incorporated. 268,598; Mar. 18; Serial No. 292,465; published Jan. 7, 1930.

Laxative. S. Gysin. 268,667; Mar. 18; Serial No. 291,825; published Jan. 7, 1930.

Lighter fluid. Toledo Rex Spray Company. 268,718; Mar. 18; Serial No. 278,143; published Dec. 31, 1929.

Liniment. Carolina Chemical Company. 268,902; Mar. 18.

Liniment. S. Cooper. 268,663; Mar. 18; Serial No. 285,017; published Jan. 7, 1930.

Liniment, Healing. Mitchell Medicine Company. 268,853; Mar. 18; Serial No. 270,752; published Dec. 31, 1929.

Liquid, Bleaching. Zipal Products Co. 268,712; Mar. 18; Serial No. 281,184; published Dec. 31, 1929.

Liquid compound for fixing colors of dyed fibers and fabrics. L. B. Fortner. 34,157; renewed Feb. 6, 1930.

Lotion, Skin. Cogswell Laboratories, Inc. 268,879; Mar. 18.

Lotions for the face and hands, hair, eyes, and feet, creams, etc. Mrs. Pomroy, Limited. 268,642; Mar. 18; Serial No. 291,527; published Dec. 17, 1929.

Medical compound. J. Lee Cruce Co. 34,103; renewed Jan. 30, 1930.

Medical compounds. Benno, Jaffé & Darmstaedter. 34,706; renewed May 29, 1930.

Medical preparations, Internal. L. J. Ruskin. 268,646; Mar. 18; Serial No. 290,748; published Dec. 24, 1929.

Medicated mineral oil, Bitter. E. E. Beadle. 268,773; Mar. 18; Serial No. 292,153; published Dec. 31, 1929.

Medicinal ointment and liquid. Conley Ointment Corporation. 268,591; Mar. 18; Serial No. 292,867; published Jan. 7, 1930.

Medicinal preparation. A. C. Booth. 268,898; Mar. 18.

Medicinal preparation. Digestive Ferments Company. 268,548–5; Mar. 18; Serial Nos. 292,258–60; published Dec. 24, 1929.

Medicinal preparation. T. H. Jones. 268,722; Mar. 18; Serial No. 277,761; published Apr. 16, 1929.

Medicinal preparation. K. A. Lingner. 78,617; renewed June 28, 1930.

Medicinal preparation. Magay Corporation. 268,697; Mar. 18; Serial No. 292,217; published Dec. 31, 1929.

Medicinal preparation. Medico Laboratories. 268,605; Mar. 18; Serial No. 260,339; published Nov. 6, 1928.

Medicinal preparation. J. C. Powell. 268,872; Mar. 18; Serial No. 289,419; published Dec. 24, 1929.

Medicinal preparation. R. J. Strasenburgh Co. 268,695; Mar. 18; Serial No. 292,234; published Dec. 31, 1929.

Medicinal preparations. Alfred Bishop Ltd. 268,647; Mar. 18; Serial No. 289,915; published Dec. 31, 1929.

Medicinal preparations. I. G. Farbenindustrie Aktiengesellschaft. 268,648; Mar. 18; Serial No. 289,885; published Dec. 24, 1929.

Medicinal remedy. A. Yaffe. 268,738; Mar. 18; Serial No. 274,248; published Dec. 17, 1929.

Medicine. Dr. A. C. Daniels Inc. 268,687; Mar. 18; Serial No. 277,009; published Dec. 24, 1929.

Medicine. A. Valley. 268,721; Mar. 18; Serial No. 278,822; published Oct. 29, 1929.

Metabolic product of tubercle bacilli. Firm of E. Merck. 34,741; renewed June 5, 1930.

Mineral oil for chemical, etc., purposes. Stanco, Incorporated. 268,597; Mar. 18; Serial No. 292,466; published Jan. 7, 1930.

Minerals, Stock and poultry. D. C. Gamble. 268,660; Mar. 18; Serial No. 287,578; published Dec. 31, 1929.

Oil, Sanitary. Trinidad Lake Petroleum Company Limited. 268,855; Mar. 18; Serial No. 270,562; published Dec. 31, 1929.

Ointment. Pile-O-Chase Chemical Company. 268,705; Mar. 18; Serial No. 291,684; published Dec. 31, 1929.

Perfume, toilet water, face powder, etc. Houbigant, Inc. 268,585; Mar. 18; Serial No. 292,945; published Jan. 7, 1930.

Perfume, toilet water, face powder, etc. Houbigant, Inc. 268,586; Mar. 18; Serial No. 292,939; published Jan. 7, 1930.

Perfume, toilet water, face powder, etc. Houbigant, Inc. 268,587–8; Mar. 18; Serial Nos. 292,936–7; published Jan. 7, 1930.

Perfumes and toilet waters. E. A. Welters. 268,704; Mar. 18; Serial No. 291,650; published Dec. 17, 1929.

Perfumes, toilet waters, face lotions, etc. Hyman & Oppenheim, Inc. 268,698; Mar. 18; Serial No. 292,359; published Dec. 31, 1929.

Perfumes, toilet waters, face powders, etc. Cheramy, Inc. 268,589; Mar. 18; Serial No. 292,924; published Jan. 7, 1930.

Pickling and baiting substances used in tanning. Röhm & Haas. 77,178; renewed Mar. 15, 1930.

Polish, Nail. J. A. Schmitz. 268,686; Mar. 18; Serial No. 277,318; published Mar. 5, 1929.

Pomade and blemish cream, Hair. W. B. Pease. 268,790; Mar. 18; Serial No. 290,029; published Dec. 17, 1929.

Powder, Baby. S. Cooper. 268,664–5; Mar. 18; Serial Nos. 285,015–16; published Jan. 7, 1930.

Powders, Antiseptic and astringent. M. K. Wolverton. 268,671; Mar. 18; Serial No. 283,244; published Dec. 31, 1929.

Powders, Face. Crystal Chemical Company. 268,627; Mar. 18; Serial No. 286,927; published Dec. 17, 1929.

Preparation for killing dandelions. Northern Products, Inc. 268,661; Mar. 18; Serial No. 286,651; published Dec. 31, 1929.

Preparation for the relief of ailments in the kidneys. R. Closson. 268,652; Mar. 18; Serial No. 291,716; published Dec. 31, 1929.

Preparation for the treatment of constipation, sour stomach, etc. Zerbst Pharmacal Company Inc. 268,778; Mar. 18; Serial No. 291,808; published Dec. 17, 1929.

Preparation for the treatment of roundworms and tapeworms. Parke, Davis & Company. 268,596; Mar. 18; Serial No. 292,507; published Dec. 31, 1929.

Preparation for treating colds and catarrh. O. K. Quast. 268,729; Mar. 18; Serial No. 276,536; published Dec. 31, 1929.

Preparation for treating hair and scalp. I. Daniels. 268,522; Mar. 18; Serial No. 292,257; published Dec. 24, 1929.

Preparation for use in the treatment for diseases of the heart. Harrower Laboratory, Inc. 268,590; Mar. 18; Serial No. 292,873; published Jan. 7, 1930.

Preparation in the form of a pomade for straightening curly or kinky hair. E. J. Lewis. 268,650; Mar. 18; Serial No. 291,776; published Jan. 7, 1930.

Preparation, Scientific. Sharp & Dohme, Incorporated. 268,655; Mar. 18; Serial No. 291,029; published Jan. 7, 1930.

Preparations for the prevention and treatment of colds, etc. L. J. Piccoli. 268,542; Mar. 18; Serial No. 292,284; published Dec. 24, 1929.

Preparations for the treatment of nervous affections. Troponwerke Dinklage & Co. 268,658; Mar. 18; Serial No. 289,604; published Dec. 17, 1929.

Preparations for the treatment of pyorrhea, trench mouth, bleeding gums, etc. J. A. Cochrane. 268,654; Mar. 18; Serial No. 291,202; published Dec. 31, 1929.

Rouge. B. Kelly. 268,706; Mar. 18; Serial No. 291,566; published Dec. 31, 1929.

Salt, Table. S. Gysin. 268,649; Mar. 18; Serial No. 291,824; published Dec. 31, 1929.

Salts, Effervescent granular. Mu-Col Company. 77,177; renewed Mar. 15, 1930.

Salve. P. J. Breslin. 268,666; Mar. 18; Serial No. 291,962; published Jan. 7, 1930.

Shampoo, Hair. Stein Cosmetics Company. 268,657; Mar. 18; Serial No. 289,850; published Dec. 31, 1929.

Skin conditioner and make-up remover. A. Ross. 268,890; Mar. 18.

Solutions and chemicals, Fireproofing. United Fireproofing Corp. 268,643–4; Mar. 18; Serial Nos. 291,151–2; published Dec. 24, 1929.

Tablets and capsules of medicaments. Farbwerke vorm. Meister Lucius & Brüning. 78,598; renewed June 28, 1930.

Tablets for treating conditions of hyperacidity. Gasetts Company. 268,603; Mar. 18; Serial No. 291,972; published Jan. 7, 1930.

Tablets having the properties of a tonic and body builder. H. S. Woolsey. 268,736; Mar. 18; Serial No. 274,687; published Dec. 31, 1929.

Tannin extracts. Champion Fibre Company. 268,690; Mar. 18; Serial No. 292,600; published Dec. 31, 1929.

Toilet cream. Merck & Co. 268,852; Mar. 18; Serial No. 271,261; published Dec. 31, 1929.

Toilet preparations. J. Sénégas. 78,649; renewed June 28, 1930.

Tonic. Bendiner & Schlesinger, Inc. 268,651; Mar. 18; Serial No. 291,755; published Dec. 31, 1929.

Tonic. Sargon Laboratories, Inc. 268,592; Mar. 18; Serial No. 292,828; published Jan. 7, 1930.

Tonic. Vitagenol Medicine Co. 268,691; Mar. 18; Serial No. 292,598; published Dec. 31, 1929.

Tonic tablet preparation, Medicinal. Phytamin Corporation. 268,656; Mar. 18; Serial No. 291,023; published Dec. 31, 1929.

Tooth paste. Chester E. Sawyer Company. 268,707; Mar. 18; Serial No. 291,531; published Dec. 17, 1929.

Treatment of rheumatism and for purifying the blood. B. L. Jolas. 268,702; Mar. 18; Serial No. 291,673; published Dec. 31, 1929.
Uric acid solvent and preparation. Allied Drug and Chemical Corporation. 268,602; Mar. 18; Serial No. 292,483; published Dec. 31, 1929.
Vegetable mucilage. Tragasol Products Limited. 268,617; Mar. 18; Serial No. 261,847; published Dec. 31, 1929.
Vegetable mucilage of hemicellulose constitution. Tragasol Products Limited. 268,618; Mar. 18; Serial No. 261,845; published Jan. 7, 1930.
Worm tablets for adult dogs and foxes. G. W. Browning. 268,604; Mar. 18; Serial No. 291,963; published Jan. 7, 1930.

CLASS 8

Cigarette-package covers. Stern-Brown, Inc. 268,629; Mar. 18; Serial No. 291,939; published Jan. 7, 1930.
Cigarette paper and cigarette-paper tubes. General-Direktion der Österr. Tabakregie. 268,639; Mar. 18; Serial No. 287,249; published Jan. 7, 1930.

CLASS 9

Cartridges, Rifle. Western Cartridge Company. 268,486; Mar. 18; Serial No. 284,709; published Dec. 31, 1929.
Firework. Hitt Flashcracka Company. 268,830; Mar. 18; Serial No. 291,453; published Jan. 7, 1930.
Matches. Vulcan Match Co. 268,829; Mar. 18; Serial No. 291,594; published Jan. 7, 1930.
Matches. Western Match Co. 268,888; Mar. 18.

CLASS 10

Fertilizer. Eastern Cotton Oil Company. 268,574; Mar. 18; Serial No. 292,157; published Dec. 31, 1929.
Fertilizers. International Agricultural Corporation. 268,578; Mar. 18; Serial No. 292,110; published Dec. 31, 1929.

CLASS 11

Ink paste. American Crayon Company. 268,579; Mar. 18; Serial No. 292,067; published Dec. 31, 1929.
Typewriter ribbons. Mittag & Volger. 34,517; renewed Apr. 24, 1930.
Typewriter ribbons and carbon papers. Mittag & Volger. 34,518; renewed Apr. 24, 1930.

CLASS 13

Apparatus for preparing infusions such as those of coffee and tea. Automatic Drip-O-Lator Company. 268,715; Mar. 18; Serial No. 280,629; published July 2, 1929.
Bathroom fixtures. United Wire Goods Mfg. Co. 268,786–7; Mar. 18; Serial Nos. 290,326–7; published Jan. 7, 1930.
Metal memorial vase. W. H. Savage. 268,747; May 18; Serial No. 276,863; published Jan. 7, 1930.
Moulds and baking pans, Base-metal cooking. Edward Katzinger Company. 268,860–3; Mar. 18; Serial Nos. 280,056–9; published Jan. 7, 1930.
Valves, Steam and water. Fairbanks Company. 77,630; renewed Apr. 26, 1930.

CLASS 14

Steel. Carpenter Steel Company. 268,882; Mar. 18.
Steel. J. J. Saville & Co. Limited. 77,401; renewed Apr. 5, 1930.
Steel. J. J. Saville & Co. Limited. 77,420; renewed Apr. 5, 1930.
Steel, Drill and tool. Ziv Steel & Wire Company. 268,880–1; Mar. 18.

CLASS 15

Candles. Will & Baumer Candle Co. 268,546; Mar. 18; Serial No. 292,379; published Jan. 7, 1930.
Compounds and oils, Lubricating. W. J. Craft. 268,525; Mar. 18; Serial No. 290,745; published Dec. 31, 1929.
Gasoline. Great Western Oil Company. 268,677; Mar. 18; Serial No. 282,646; published Jan. 7, 1930.
Gasoline, Hyvis Oil Company. 268,565; Mar. 18; Serial No. 291,162; published Jan. 7, 1930.
Gasoline and lubricating oil and grease. Firestone Tire & Rubber Company. (268,556; Mar. 18; Serial No. 291,720; published Jan. 7, 1930.
Gasoline, kerosene, greases, etc. Westchester County Automotive Service Association, Inc. 268,563; Mar. 18; Serial No. 291,875; published Dec. 31, 1929.
Gasoline, kerosene, petroleum distillate, etc. Rio Grande Oil Company. 268,923; Mar. 18.
Gasoline, lubricating greases and oils. Sunset Pacific Oil Company. 268,540; Mar. 18; Serial No. 292,057; published Jan. 7, 1930.
Lubricant. J. Balch. 268,530; Mar. 18; Serial No. 290,173; published Jan. 7, 1930.
Lubricants, lubricating oils and greases. Metal Lubricant Company. 268,555; Mar. 18; Serial No. 291,733; published Dec. 31, 1929.
Oil, Motor lubricating. Arrow Oil Company. 268,746; Mar. 18; Serial No. 276,944; Dec. 17, 1929.
Oils and greases and motor-fuel oils, Lubricating. Stanavo Specification Board. 268,532; Mar. 18; Serial No. 289,996; published Dec. 31, 1929.
Oils and greases and motor-fuels oils, Lubricating. Stanavo Specification Board. 268,539; Mar. 18; Serial No. 287,502; published Dec. 31, 1929.
Oils and greases, Lubricating. W. H. Barber Company. 268,842; Mar. 18; Serial No. 272,972; published Dec. 11, 1928.
Oils and greases, Lubricating. W. H. Barber Company. 268,854; Mar. 18; Serial No. 270,622; published Oct. 16, 1928.
Oils and greases, Lubricating. Sinclair Refining Company. 268,621; Mar. 18; Serial No. 293,008; published Jan. 7, 1930.
Oils, Lubricating. Indian Refining Company. 77,159; renewed Mar. 15, 1930.
Oils, Lubricating. Iowa Auto Market, Inc. 268,916; Mar. 18.
Oils, Lubricating. Sinclair Refining Company. 268,547; Mar. 18; Serial No. 292,374; published Jan. 7, 1930.
Petroleum and products of petroleum, mineral wax, candles, etc. Standard Oil Company of New York. 268,548; Mar. 18; Serial No. 292,128; published Jan. 7, 1930.

CLASS 16

Calcimine. Adams & Elting Company. 76,663–4; renewed Feb. 3, 1930.
Paint. W. W. Conner. 268,771; Mar. 18; Serial No. 285,147; published Jan. 7, 1930.
Paints, paint enamels, stains, and varnishes. F. O. Pierce Company. 268,461; Mar. 18; Serial No. 291,736; published Jan. 7, 1930.
Paints, varnishes, lacquers, etc. Kohler-McLister Paint Company. 268,484; Mar. 18; Serial No. 291,394; published Jan. 7, 1930.
Polish. E. J. Griffing. 268,749; Mar. 18; Serial No. 269,515; published Dec. 31, 1929.
Primers, surfacers, and lacquers. Valentine & Company. 268,440; Mar. 18; Serial No. 292,914; published Jan. 7, 1930.
Solvent and diluent for lacquers, etc. Hydrocarbon Products Company, Inc. 268,714; Mar. 18; Serial No. 280,645; published June 11, 1929.

CLASS 17

Cigars. Compañía Tabacalera Nacional, S. A. 268,681; Mar. 18; Serial No. 290,822; published Dec. 31, 1929.
Cigars. C. Floyd. 268,572–3; Mar. 18; Serial Nos. 292,159–60; published Dec. 31, 1929.
Tobaccos, cigars, and cigarettes. General-Direktion der Österr. Tabakregie. 268,891–3; Mar. 18.

CLASS 19

Automobiles. Selden Motor Vehicle Co. 78,457; renewed June 14, 1930.
Automobiles, Runner propulsion attachment for. Snow Flyer Corporation. 268,785; Mar. 18; Serial No. 290,380; published Jan. 7, 1930.
Trailers. Aerocar Corporation. 268,858; Mar. 18.
Trucks. Howe Chain Company. 268,679; Mar. 18; Serial No. 282,554; published Jan. 7, 1930.
Vehicle tops. Brewer-Titchener Corporation. 268,903; Mar. 18.

CLASS 20

Linoleum. Bremer Linoleumwerke Delmenhorst. 77,790; renewed May 10, 1930.

CLASS 21

Alarms and burglar-alarm systems, Burglar. National Wiring & Protective Co. Inc. 268,742; Mar. 18; Serial No. 273,832; published Dec. 31, 1929.
Batteries, Electric. National Carbon Company. 268,557; Mar. 18; Serial No. 291,687; published Jan. 7, 1930.
Batteries, Electric storage. C. W. Ford. 268,907; Mar. 18.
Batteries, Lead storage. Longlife Battery Inc. 268,672; Mar. 18; Serial No. 283,126; published Jan. 7, 1930.
Batteries, Storage. Cooper Corporation. 268,909; Mar. 18.
Carbon rods for electrical purposes. Actiengesellschaft für Fabrikation von Kohlenstiften, vormals F. Hardtmuth & Co. 32,854; renewed May 9, 1929.
Casings, Flash-light and fuse. Brandywine Fibre Products Company. 268,917; Mar. 18.
Display cabinets and electrical advertising match and toothpick dispensers, Electrical. J. D. Henderson. 268,528; Mar. 18; Serial No. 290,572; published Dec. 31, 1929.
Driers for the hands, Electric warm air. B. C. Davis. 268,558; Mar. 18; Serial No. 291,056; published Jan. 7, 1930.
Electric fans, blowers, and electric motors therefor. Bishop & Babcock Mfg. Co. 268,937; Mar. 18.
Electric vacuum cleaners and parts thereof. Siemens-Schuckertwerke Aktiengesellschaft. 268,540; Mar. 18; Serial No. 285,594; published Jan. 7, 1930.
Electrical devices used in the kitchen. Sears, Roebuck and Co. 268,527; Mar. 18; Serial No. 290,611; published Dec. 31, 1929.
Electrical fans. Edwin F. Guth Company. 268,935; Mar. 18.
Electrical resistors. International Resistance Company. 268,930; Mar. 18.
Fans, electric reflecting heaters, etc., Electric. Cincinnati Victor Company. 268,538; Mar. 18; Serial No. [illegible]; published Dec. 31, 1929.
Incandescent electric lamps. W. H. Backer. [illegible]; Mar. 18; Serial No. 283,081; published Jan. 7, 1930.

Instruments for reproducing sound. B. B. Laboratories, Inc. 268,728; Mar. 18; Serial No. 276,682; published May 21, 1929.
Insulating compound, Electrical. Western Electric Company. 268,550; Mar. 18; Serial No. 292,022; published Jan. 7, 1930.
Lighting fixtures and fixture units, Electric. Westinghouse Electric & Manufacturing Company. 268,531; Mar. 18; Serial No. 290,162; published Jan. 7, 1930.
Lightning arresters, Resistance elements in. E. A. Everett. 268,631; Mar. 18; Serial No. 282,457; published Jan. 7, 1930.
Mixers, Electrically-operated. Ceramic Machinery Company. 268,680; Mar. 18; Serial No. 282,528; published Dec. 31, 1929.
Radio receiving sets. Hadley Company. 268,533; Mar. 18; Serial No. 289,562; published Jan. 7, 1930.
Radio receiving sets and parts thereof. Cable Company. 268,487; Mar. 18; Serial No. 284,322; published Dec. 31, 1929.
Radio receiving sets and tubes. Chas. Freshman Co. 268,624; Mar. 18; Serial No. 247,686; published Jan. 10, 1928.
Radio receiving sets, loud-speakers, transformers, etc. Transformer Corporation of America. 268,564; Mar. 18; Serial No. 291,366; published Jan. 7, 1930.
Spark plugs. W. D. Hinton. 268,562; Mar. 18; Serial No. 291,389; published Dec. 31, 1929.
Spotlights, flood lights, etc., Electrical. Hall & Connolly, Inc. 268,731; Mar. 18; Serial No. 276,183; published Jan. 7, 1930.
Thermionic vacuum tubes, vacuum-tube valves and rectifiers, etc. National Carbon Company. 268,534; Mar. 18; Serial No. 288,865; published Jan. 7, 1930.
Toasters, electric heating pads, sadirons, etc., Electric. Knapp-Monarch Company. 268,535; Mar. 18; Serial No. 288,748; published Dec. 31, 1929.
Tubes, insulators, electrode housings, etc., Luminescent. Sun-Glo Neon Corporation. 268,724; Mar. 18; Serial No. 282,015; published Dec. 3, 1929.
Unitary devices for transmitting and displaying messages, characters, etc. Baird Television Development Company Limited. 268,526; Mar. 18; Serial No. 290,737; published Jan. 7, 1930.
Vibratory converters. Colson Company. 268,739; Mar. 18; Serial No. 274,205; published Dec. 31, 1929.
Wire, Magnet. Maring Wire Company. 268,612; Mar. 18; Serial No. 255,565; published Dec. 31, 1929.
Wire, rods, and strands, etc., Resistance. Driver-Harris Company. 268,559–60; Mar. 18; Serial Nos. 291,610–11; published Dec. 31, 1929.

CLASS 22

Fishlines. Chaffee Manufacturing Company. 76,104; renewed Dec. 14, 1929.
Golf balls. St. Mungo Manufacturing Company. 79,011; renewed July 26, 1930.

CLASS 23

Awls, hammers, pincers, etc. United Shoe Machinery Corporation. 268,515; Mar. 18; Serial No. 286,897; published Jan. 7, 1930.
Axes, hammers, chisels, bits, etc. L. Bamberger & Co. 268,834; Mar. 18; Serial No. 290,293; published Jan. 7, 1930.
Carburetors. A. E. Dobbs. 268,520; Mar. 18; Serial No. 285,710; published Jan. 7, 1930.
Drying machines. National Drying Machinery Co. 268,833; Mar. 18; Serial No. 290,588; published Dec. 31, 1929.
Engines for aeronautical purposes, Internal-combustion. Wright Aeronautical Corporation. 268,812; Mar. 18; Serial No. 292,700; published Jan. 7, 1930.
Gears and pinions. Atlantic Gear Works Inc. 268,823; Mar. 18; Serial No. 292,091; published Dec. 31, 1929.
Machine keys. Morton Manufacturing Company. 268,821; Mar. 18; Serial No. 292,222; published Jan. 7, 1930.
Machine or apparatus for reclaiming lubricating oils. Refinoil Manufacturing Corporation. 268,838; Mar. 18; Serial No. 273,379; published Dec. 31, 1929.
Riveting machines. F. B. Shuster Company. 78,754–6; renewed July 5, 1930.
Shears and scissors. Acme Shear Company. 268,816; Mar. 18; Serial No. 292,514; published Dec. 31, 1929.
Textile machinery. Woonsocket Machine & Press Company Incorporated. 268,910; Mar. 18.
Tools. Ardmore Manufacturing Company. 268,824; Mar. 18; Serial No. 292,084; published Dec. 31, 1929.
Wire straightening and cutting-off machines. Franklin Manufacturing Company. 78,703; renewed July 5, 1930.

CLASS 24

Renovating machines, Hat-. Rhodes Electric Hat-Man, Inc. 268,735; Mar. 18; Serial No. 275,131; published Jan. 7, 1930.

CLASS 25

Fasteners, Shutter. G. F. S. Zimmerman & Company. 78,221; renewed May 31, 1930.

CLASS 26

Binoculars. Mirakel Optical Co. 268,822; Mar. 18; Serial No. 292,113; published Dec. 31, 1929.
Calculating, computing, and accounting machines, etc. National Cash Register Company. 268,815; Mar. 18; Serial No. 292,637; published Jan. 7, 1930.
Counting and indicating devices, Mechanical. Veeder-Root Incorporated. 268,745; Mar. 18; Serial No. 273,482; published Dec. 31, 1929.
Glasses, ophthalmic lenses, eyeglasses, etc., Reading. C. Zeiss. 268,713; Mar. 18; Serial No. 280,866; published Jan. 7, 1930.
Glasses, Reading. Hanover Electric Company. 268,826; Mar. 18; Serial No. 291,981; published Dec. 31, 1929.
Graph boards. B. L. Padgett. 268,675; Mar. 18; Serial No. 282,791; published Dec. 31, 1929.
Lenses and blanks, Ophthalmic. Soft-Lite Lens Co. 268,820; Mar. 18; Serial No. 292,292; published Dec. 31, 1929.
Meters, Water. E. E. Gamon. 77,634; renewed Apr. 26, 1930.
Picture apparatus. Sound-. Western Electric Company. 268,676; Mar. 18; Serial No. 282,690; published Jan. 7, 1930.
Pictures or other sound and light effects, Apparatus and parts thereof for the synchronous production and reproduction of talking motion. Powers Cinephone Equipment Corporation. 268,509; Mar. 18; Serial No. 287,935; published Jan. 7, 1930.
Scales, Weighing. John Chatillon & Sons. 268,835; Mar. 18; Serial No. 289,873; published Dec. 31, 1929.
Spectacles and eyeglasses. H. W. von Unruh. 268,517; Mar. 18; Serial No. 285,954; published Jan. 7, 1930.

CLASS 27

Watches. E. Goldstein. 268,568; Mar. 18; Serial No. 292,207; published Dec. 31, 1929.
Watches and watch movements. Hipp. Didisheim & Bro. 77,711; renewed May 3, 1930.

CLASS 28

Bracelets, brooches, pendants, etc. L. Bamberger & Co. 268,529; Mar. 18; Serial No. 290,300; published Jan. 7, 1930.
Necklaces and bracelets. James McCreery & Company. 268,524; Mar. 18; Serial No. 290,901; published Dec. 31, 1929.
Necklaces, bracelets, earrings, etc. Cohn & Rosenberger, Inc. 268,553–4; Mar. 18; Serial Nos. 291,816–7; published Dec. 31, 1929.
Stones, Synthetic. S. Nathan & Co. Inc. 268,586; Mar. 18; Serial No. 288,660; published Jan. 7, 1930.
Tableware. International Silver Company. 268,551; Mar. 18; Serial No. 291,984; published Jan. 7, 1930.

CLASS 29

Cloth, Knitted. Velvetknit Corporation. 268,632; Mar. 18; Serial No. 290,805; published Dec. 31, 1929.
Toothbrushes and shaving brushes. William A. Webster Company. 268,575; Mar. 18; Serial No. 292,136; published Dec. 31, 1929.

CLASS 30

Chinaware or pottery. Salem Pottery Co. 268,915; Mar. 18.
Stoneware, crockery, and earthenware. Western Stoneware Co. 77,411; renewed Apr. 5, 1930.

CLASS 31

Cooler and display stand, Vegetable. Birdsong & Showers. 268,928; Mar. 18.

CLASS 32

Cabinets, mirror frames, radiator enclosures, etc. Excel Metal Cabinet Company. 268,488; Mar. 18; Serial No. 284,225; published Jan. 7, 1930.
Covers made of leather manufactured from scraps of real leather. Tailored. Società Invenzioni Brevetti Anonima-Torino. 268,850; Mar. 18; Serial No. 271,774; published Dec. 31, 1929.
Covers made of leather, Tailored. Società Invenzioni Brevetti Anonima-Torino. 268,846; Mar. 18; Serial No. 271,779; published Dec. 31, 1929.
Furniture. James McCreery & Company. 268,819; Mar. 18; Serial No. 292,328; published Jan. 7, 1930.
Seats for chairs, etc., Cane, fibre, wood, leather, etc. Industrial Home for the Blind. 268,716; Mar. 18; Serial No. 279,518; published Dec. 31, 1929.
Seats for couches, chairs, and davenports, Resilient. J. Kronheim. 268,669; Mar. 18; Serial No. 288,648; published Dec. 31, 1929.

CLASS 34

Boilers, House-heating. United States Radiator Corporation. 268,791; Mar. 18; Serial No. 289,556; published Jan. 7, 1930.
Heaters and heater doors, Vulcanizer. National-Erie Company. 268,775; Mar. 18; Serial No. 291,926; published Jan. 7, 1930.
Stokers and repair parts thereof. Standard Stoker Company. 268,982; Mar. 18.
Torches, cutting and welding machines, etc., Cutting and welding. I. G. Farbenindustrie Aktiengesellschaft. 268,859; Mar. 18; Serial No. 287,802; published Jan. 7, 1930.

CLASS 35

Belt, Solid woven. Victor Balata & Textile Belting Co. 268,827–8; Mar. 18; Serial Nos. 291,956–7; published Dec. 31, 1929.
Belting, Laminated. Slip-Not Belting Corporation. 268,918; Mar. 18.
Packings, jointings, couplings, etc. Società Invenzioni Brevetti Anonima-Torino. 268,518–9; Mar. 18; Serial Nos. 286,833–4; published Dec. 31, 1929.

Tires. Swinehart Tire and Rubber Company. 268,936; Mar. 18.

CLASS 36

Harmonicas, Mouth. M. Hohner, Inc. 268,552; Mar. 18; Serial No. 291,830; published Dec. 31, 1929.
Musical instruments, and music-roll magazines, Keyboard. Aeolian Company. 268,561; Mar. 18; Serial No. 291,542; published Jan. 7, 1930.
Musical instruments and supplies, accessories therefor, envelopes, and albums. C. J. Kronberg. 268,720; Mar. 18; Serial No. 277,846; published Jan. 7, 1930.
Talking machines and parts thereof. P. Jabas. 268,537; Mar. 18; Serial No. 288,617; published Jan. 7, 1930.
Talking machines, disc records, and parts thereof. Compagnie General Des Machines Parlantes "Pathe-Freres." 268,668; Mar. 18; Serial No. 283,784; published Jan. 7, 1930.

CLASS 37

Paper, Tissue. Standard Products Corporation. 268,922; Mar. 18.
Pens. Perry & Company. 34,209; renewed Feb. 20, 1930.
Strawboard. North Star Strawboard Mills. 268,929; Mar. 18.

CLASS 38

Magazines. Good Health Publishing Company. 77,916; renewed May 17, 1930.
Periodical. Oswald Publishing Company. 78,439; renewed June 14, 1930.

CLASS 39

Boots and shoes. Carlisle Shoe Company. 268,752; Mar. 18; Serial Nos. 273,290–1; published Dec. 31, 1929.
Boots and shoes and soles and uppers for same. Strong & Garfield Co. 32,434; renewed Jan. 31, 1929.
Caps, Men's and boys'. U-Profit Cap Mfg. Co. 268,933; Mar. 18.
Clothing. Fashion Shop. 268,839–40; Mar. 18; Serial Nos. 273,290–1; published Dec. 31, 1929.
Clothing, Outer. Aaron I. Binsky, Inc. 268,759; Mar. 18; Serial No. 290,648; published Dec. 31, 1929.
Clothing, Work. Washington Manufacturing Co. 268,748; Mar. 18; Serial No. 289,700; published Dec. 31, 1929.
Coats, Ladies'. Wiltshire Garment Co. 268,451; Mar. 18; Serial No. 292,380; published Jan. 7, 1930.
Coats, Men's cloth. New Process Company. 268,767; Mar. 18; Serial No. 291,234; published Jan. 7, 1930.
Collars. New Era Shirt Company. 268,894; Mar. 18.
Collars, pajamas, night robes, etc. Vanderbilt Mills, Inc. 268,886; Mar. 18.
Collars, shirts, pajamas, and underwear. Enro Shirt Company. 268,483; Mar. 18; Serial No. 291,503; published Jan. 7, 1930.
Corsets and brassières. Berlei Limited. 268,459; Mar. 18; Serial No. 291,959; published Dec. 31, 1929.
Dresses, Washable. Forest City Mfg. Co. 268,901; Mar. 25.
Garment, Textile. S. E. B. Shepard. 268,887; Mar. 18.
Garments, Fur. A. Paul & Sons, Inc. 268,755; Mar. 18; Serial No. 289,899; published Dec. 17, 1929.
Garments, Knit. Minneapolis Knitting Works. 78,434; renewed June 14, 1930.
Gloves. Steinberger Bros. Glove Corp. 268,753; Mar. 18; Serial No. 280,436; published Dec. 31, 1929.
Gloves, Work. Boss Manufacturing Company. 268,761; Mar. 18; Serial No. 291,112; published Dec. 24, 1929.
Hats. Sears, Roebuck and Co. 268,492; Mar. 18; Serial No. 291,795; published Dec. 31, 1929.
Hats. Sears, Roebuck and Co. 268,766; Mar. 18; Serial No. 291,242; published Dec. 31, 1929.
Hats and caps. Perlman Brothers. 268,750; Mar. 18; Serial No. 289,085; published Dec. 31, 1929.
Hats and caps, Men's. Bowman Hat Company. 268,457; Mar. 18; Serial No. 292,093; published Dec. 31, 1929.
Hats, Felt. G. W. Alexander & Co. 268,485; Mar. 18; Serial No. 284,767; published Dec. 31, 1929.
Hats, Ladies'. Ernest L. Rhodes Company. 268,754; Mar. 18; Serial No. 290,147; published Dec. 31, 1929.
Hosiery. A. B. Andrews Company. 71,420; renewed Nov. 24, 1928.
Hosiery. Phoenix Hosiery Company. 268,921; Mar. 18.
Hosiery. Rufus W. Scott Company. 268,452; Mar. 18; Serial No. 292,230; published Dec. 31, 1929.
Hosiery. Rufus W. Scott Company. 268,455; Mar. 18; Serial No. 292,126; published Dec. 31, 1929.
Hosiery and underwear. Primfit Textile Company. 268,490; Mar. 18; Serial No. 291,888; published Dec. 31, 1929.
Hosiery, Boys'. J. L. Hudson Company. 268,454; Mar. 18; Serial No. 292,210; published Dec. 31, 1929.
Millinery. Consolidated Millinery Company. 268,758; Mar. 18; Serial No. 290,824; published Dec. 31, 1929.
Negligee, children's shirts, work shirts, and men's underwear, Adults'. M. Fine & Sons. 268,895; Mar. 18.
Overcoats and top coats, Men's. Goodimate Co. 268,926; Mar. 18.
Overgaiters and spats. Manolis Manufacturing Co. 268,904; Mar. 18.
Pants, shirts, coats, etc., Work. C. R. Anthony Company. 268,760; Mar. 18; Serial No. 291,197; published Dec. 10, 1929.
Shirts. May Department Stores Company. 268,756–7; Mar. 18; Serial Nos. 290,848–9; published Jan. 7, 1930.
Shirts. May Department Stores Company. 268,764; Mar. 18; Serial No. 290,850; published Jan. 7, 1930.
Shirts and undershirts. Rauh Bros. & Company. 77,330; renewed Mar. 29, 1930.
Shirts, Dress. Best Shirt Company. 268,924; Mar. 18.
Shirts, lumberjackets, and blazers for men and boys, Dress. Norton Bros. and Morris. 268,905; Mar. 18.
Shirts, Men's work. Brown Durrell Co. 268,733; Mar. 18; Serial No. 275,657; published Jan. 7, 1930.
Shirts, pajamas, and underwear, Negligee. Manhattan Shirt Co. 268,462; Mar. 18; Serial No. 291,517; published Dec. 31, 1929.
Shoes. Sobel Shoe Co. Inc. 268,765; Mar. 18; Serial No. 291,297; published Dec. 31, 1929.
Shoes. United States Rubber Company. 268,885; Mar. 18.
Shoes, Bathing. E. S. Ward. 268,927; Mar. 18.
Shoes, Leather. Brocketon Shoe Manufacturing Company. 268,508; Mar. 18; Serial No. 249,404; published Feb. 28, 1928.
Skirts. B. Epstein. 268,763; Mar. 18; Serial No. 290,941; published Dec. 31, 1929.
Slippers, gloves, bath robes, etc., Woolen. Jaeger Company. 268,498; Mar. 18; Serial No. 291,770; published Dec. 31, 1929.
Socks. Pilot Hosiery Mill, Incorporated. 268,491; Mar. 18; Serial No. 291,838; published Dec. 31, 1929.
Socks, Boot and shoe. L. S. Williams. 268,769; Mar. 18; Serial No. 286,525; published Jan. 7, 1930.
Stockings, Ladies'. Chetwode Inc. 268,751; Mar. 18; Serial No. 289,006; published Dec. 31, 1929.
Suits and overcoats. S. Hoffman. 268,622; Mar. 18; Serial No. 252,828; published Oct. 18, 1927.
Suits, Bathing. E. L. Greene Knitting Mills, Inc. 268,456; Mar. 18; Serial No. 292,107; published Dec. 31, 1929.
Suits, coats, dresses, hats, etc. Blum Store. 268,900; Mar. 18.
Suits, coats, jackets, boots, etc., Sport. Societa Invenzioni Brevetti Anonima-Torino. 268,845; Mar. 18; Serial No. 271,760; published Dec. 31, 1929.
Suits, coats, ulsters, boots, etc., Sport. Societa Invenzioni Brevetti Anonima-Torino. 268,849; Mar. 18; Serial No. 271,775; published Dec. 31, 1929.
Suits, stockings, skirts, neckwear, etc. L. G. Lévy. 268,606–7; Mar. 18; Serial No. 260,126–7; published Jan. 7, 1930.
Undergarments of knitted silk fabric, Combination. Van Realte Co. 268,626; Mar. 18; Serial No. 225,456; published Mar. 16, 1926.
Underwear. Winship, Boit & Co. 268,460; Mar. 18; Serial No. 291,946; published Dec. 31, 1929.
Underwear and pajamas, Men's. R. F. Pool, Jr., Manufacturing Co. 268,458; Mar. 18; Serial No. 292,046; published Dec. 31, 1929.
Underwear, Men's. S. H. Kress & Co. 268,762; Mar. 18; Serial No. 290,957; published Dec. 24, 1929.
Underwear, Women's rayon. Butler Brothers. 268,450; Mar. 18; Serial No. 292,664; published Jan. 7, 1930.

CLASS 40

Articles made of leather. Societa Invenzioni Brevetti Anonima-Torino. 268,844; Mar. 18; Serial No. 271,781; published Dec. 31, 1929.
Articles made of leather. Societa Invenzioni Brevetti Anonima-Torino. 268,848; Mar. 18; Serial No. 271,770; published Dec. 31, 1929.
Combs. J. Fleischer. 268,914; Mar. 18.
Ribbons. Century Ribbon Mills, Inc. (Ernest & Herman Levy). 268,931; Mar. 18.
Shields and elastic tape, Dress. Brown Durrell Co. 268,912; Mar. 18.

CLASS 42

Bedcovers, coverlets, coverings, and counterpanes. R. A. Figle Di Guiseppe Gallina. 268,684; Mar. 18; Serial No. 277,577; published Dec. 31, 1929.
Bed sheets, pillowcases, sheetings, etc. Interstate Department Stores, Inc. 268,465; Mar. 18; Serial No. 292,581; published Jan. 7, 1930.
Blankets. W. S. Libbey Company. 268,832; Mar. 18; Serial No. 290,756; published Dec. 31, 1929.
Cloth. Western Shade Cloth Company. 268,813; Mar. 18; Serial No. 292,696; published Dec. 31, 1929.
Cloths and stuffs of wool, worsted or hair. J. T. Clay & Sons, Limited. 76,569; renewed Feb. 1, 1930.
Cotton, linen, artificial and natural silk goods in pieces. Marylo Mills, Inc. 268,512; Mar. 18; Serial No. 287,582; published Jan. 7, 1930.
Fabrics. Celanese Corporation of America. 293,818; Mar. 18; Serial No. 292,393; published Dec. 31, 1929.
Fabrics, Knitted. Sportwear Attire Corp. 268,889; Mar. 18.
Fabrics made wholly or partially of cellulose derivatives. Celanese Corporation of America. 268,620; Mar. 18; Serial No. 293,083; published Jan. 7, 1930.
Fabrics, Pile. Sidney Blumenthal & Co. Inc. 268,464; Mar. 18; Serial No. 292,711; published Dec. 31, 1929.
Lingerie cloth in the piece. Albert Godde, Bedin, Inc. 268,469; Mar. 18; Serial No. 292,104; published Jan. 7, 1930.
Robes, carriage robes, and rugs, Motor. Sanford Mills. 268,674; Mar. 18; Serial No. 283,061; published Aug. 13, 1929.
Rugs and carpets, Textile. A. & M. Karaghensian, Inc. 268,580–1; Mar. 18; Serial Nos. 292,879–80; published Jan. 7, 1930.
Rugs and carpets, Woven textile. Bigelow-Hartford Carpet Company. 268,866; Mar. 18; Serial No. 289,886; published Dec. 31, 1929.

Silk piece goods. Holland & Son. 268,463; Mar. 18; Serial No. 292,806; published Dec. 31, 1929.
Silk wall drapes. L. Bush-Brown. 268,878; Mar. 18.
Silks in piece goods. M. C. Migel & Company. 78,890; renewed July 19, 1930.
Silks in the piece. Davison-Paxon Company. 268,610; Mar. 18; Serial No. 256,102; published Jan. 7, 1930.
Suitings, shirtings, and sheetings. L. S. Baumgardner. 76,013; renewed Dec. 7, 1929.
Textile and pile fabrics in the piece. Cheney Brothers. 268,584; Mar. 18; Serial No. 292,716; published Jan. 7, 1930.
Wash rags, Cotton. Starr Knitting Mills, Inc. 268,869; Mar. 18; Serial No. 287,381; published Sept. 24, 1929.
Woolen cloaking fabric. Sanford Mills. 268,463; Mar. 18; Serial No. 292,464; published Jan. 7, 1930.
Woolen piece goods. Forstmann & Huffmann Company. 268,732; Mar. 18; Serial No. 276,129; published Jan. 7, 1930.
Woolen piece goods. Madison Woolen Company. 268,466–7; Mar. 18; Serial Nos. 292,501–2; published Dec. 31, 1929.
Woolen piece goods. Madison Woolen Company. 268,817; Mar. 18; Serial No. 292,503; published Dec. 31, 1929.

CLASS 43

Yarn, Rayon. Industrial Rayon Corporation. 268,734; Mar. 18; Serial No. 275,357; published Dec. 31, 1929.
Yarns and threads. English Textilose Manufacturing Company Limited. 268,516; Mar. 18; Serial No. 286,042; published Dec. 31, 1929.

CLASS 44

Ear phones. H. Lieber. 268,453; Mar. 18; Serial No. 292,216; published Dec. 31, 1929.
Exercisers. Wolcott, Incorporated. 268,768; Mar. 18; Serial No. 287,271; published Dec. 31, 1929.
Hair driers, Electrical. Charles Arnao Company. 268,897; Mar. 18.
Surgical appliances. Hanover Rubber Co. "Excelsior" Inc. 268,743; Mar. 18; Serial No. 273,700; published Dec. 31, 1929.

CLASS 45

Ginger ale and root beer. Porto Rico Pale Dry Co. 268,918; Mar. 18.
Soda water. Coca Cola Bottling Co. 268,837; Mar. 18; Serial No. 289,338; published Dec. 31, 1929.
Spring water. Saratoga-Carlsbad Company. 268,514; Mar. 18; Serial No. 286,545; published Dec. 31, 1929.
Water, Drinking. A. L. Oswald. 268,825; Mar. 18; Serial No. 292,077; published Dec. 31, 1929.

CLASS 46

Alimentary-paste products. John B. Canepa Company. 268,727; Mar. 18; Serial No. 281,257; published Dec. 31, 1929.
Apples. Columbia-Okanogan Orchards, Inc. 268,857; Mar. 18; Serial No. 269,089; published Dec. 31, 1929.
Apples, Fresh. C. H. de Mantemar. 268,513; Mar. 18; Serial No. 287,054; published Jan. 7, 1930.
Bakery products. Fleischmann's Vienna Model Bakery. 34,668; renewed May 22, 1930.
Biscuits. A. U. Terrabust. 268,630; Mar. 18; Serial No. 291,299; published Dec. 31, 1929.
Bouillon, Beef. International Products Corporation. 268,798; Mar. 18; Serial No. 291,876; published Jan. 7, 1930.
Bread. H. Hecht. 268,577; Mar. 18; Serial No. 292,108; published Dec. 31, 1929.
Bread. Homade Baking Co. 268,719; Mar. 18; Serial No. 278,128; published Jan. 7, 1930.
Butter. Fox River Butter Company. 34,148; renewed Feb. 6, 1930.
Butter. Omaha Cold Storage Company. 268,884; Mar. 18.
Cake mixture. Bear-Stewart Co. 268,567; Mar. 18; Serial No. 292,789; published Jan. 7, 1930.
Candies. Advance Novelty Candy Manufacturing Company. 77,390; May 17, 1930.
Candies. H. Barber. 268,797; Mar. 18; Serial No. 291,958; published Jan. 7, 1930.
Candy. Cracker Jack Co. 268,503; Mar. 18; Serial No. 287,696; published Jan. 7, 1930.
Candy. W. T. Grant Company. 268,806; Mar. 18; Serial No. 292,871; published Jan. 7, 1930.
Candy. Heit-Miller-Lau Company. 268,500; Mar. 18; Serial No. 289,926; published Jan. 7, 1930.
Candy. Henry Maillard, Inc. 268,810; Mar. 18; Serial No. 292,455; published Jan. 7, 1930.
Candy. F. W. Mettler. 268,865; Mar. 18; Serial No. 289,472; published Jan. 7, 1930.
Candy. New England Confectionery Company. 268,611; Mar. 18; Serial No. 255,669; published Apr. 9, 1929.
Candy. F. H. Roberts Company. 268,796; Mar. 18; Serial No. 292,011; published Jan. 7, 1930.
Candy, chewing gum, candied nuts, shelled nuts. R. G. Lindsay. 268,744; Mar. 18; Serial No. 273,661; published Jan. 7, 1930.
Candy in cakes, Chocolate. Ambrosia Chocolate Company. 268,802; Mar. 18; Serial No. 291,490; published Jan. 7, 1930.
Candy, jelly, jam, etc. A. W. Landquist. 268,619; Mar. 18; Serial No. 261,366; published Jan. 7, 1930.
Canned caviar. Angus Watson & Co. (America) Ltd. 268,682; Mar. 18; Serial No. 282,334; published Jan. 7, 1930.
Canned fish. Custom House Packing Corporation. 268,507; Mar. 18; Serial No. 287,051; published Jan. 7, 1930.
Canned fish. McGovern & McGovern. 268,805; Mar. 18; Serial No. 292,883; published Jan. 7, 1930.
Canned fish. Quong Sang Chong Co. 268,498; Mar. 18; Serial No. 290,477; published Jan. 7, 1930.
Canned fruits. Sutter Packing Co. 268,841; Mar. 18; Serial No. 273,024; published Jan. 7, 1930.
Canned fruits and vegetables, dried fruit, pickles, etc. California Packing Corporation. 268,678; Mar. 18; Serial No. 282,638; published Dec. 31, 1929.
Canned grapefruit. Hills Brothers Company. 268,792; Mar. 18; Serial No. 292,322; published Jan. 7, 1930.
Canned gumbo soup, Creole. E. B. Smith. 268,505; Mar. 18; Serial No. 287,430; published Jan. 7, 1930.
Canned olives. F. Shurtleff. 268,868; Mar. 18; Serial No. 288,441; published Dec. 31, 1929.
Canned or preserved fruits and vegetables. E. V. Stockham. 34,777; renewed June 12, 1930.
Canned oysters. A. S. Johnson Fish Co. 268,601; Mar. 18; Serial No. 291,565; published Jan. 7, 1930.
Canned peas, salmon, pears, etc. Cushing Grocery Co. 268,883; Mar. 18.
Canned snacks, kippered herring, and crab meat. Angus Watson & Co. (America) Ltd. 268,685; Mar. 18; Serial No. 277,333; published Jan. 7, 1930.
Canned tomatoes. C. E. Stuart. 268,920; Mar. 18.
Canned vegetables. Fairmont Canning Co. 268,808; Mar. 18; Serial No. 292,800; published Jan. 7, 1930.
Canned vegetables, fruit preserves, marmalade, and pickles. Dade Canning & Preserving Co. 268,793; Mar. 18; Serial No. 292,202; published Jan. 7, 1930.
Canned vegetables, sauerkraut, and sauerkraut juice. Texas Canning Company. 268,871; Mar. 18; Serial No. 285,536; published Jan. 7, 1930.
Caviar and preserved fish. Hansen & Dieckmann. 34,937; renewed July 24, 1930.
Celery, Fresh. R. E. Baldwin. 268,489; Mar. 18; Serial No. 288,841; published Dec. 31, 1929.
Cereal breakfast foods. Alvita Food Products Inc. 268,867; Mar. 18; Serial No. 288,458; published Dec. 31, 1929.
Cereal product. Purity Oats Company. 268,494; Mar. 18; Serial No. 292,902; published Jan. 7, 1930.
Cheese. Switzerland Cheese Association, Inc. 268,576; Mar. 18; Serial No. 292,130; published Jan. 7, 1930.
Chocolate and chocolate-coated nuts. Tom Huston Peanut Company. 268,717; Mar. 18; Serial No. 279,073; published Jan. 7, 1930.
Chocolate creams, chocolate-covered hard centers, etc. A. Soteras. 268,804; Mar. 18; Serial No. 291,863; published Jan. 7, 1930.
Cocoa, chocolate toffees, etc. Naamlooze Vennootschap Helm Cacao- en Chocoladefabriek. 268,502; Mar. 18; Serial No. 288,347; published Jan. 7, 1930.
Coffee. C. D. Kenny Co. 268,807; Mar. 18; Serial No. 292,808; published Jan. 7, 1930.
Coffee. Merkle Coffee Company. 268,896; Mar. 18.
Coffee. N. M. Poon. 268,725; Mar. 18; Serial No. 281,520; published Jan. 7, 1930.
Coffee. Frank C. Weber & Company. 268,499; Mar. 18; Serial No. 289,951; published Jan. 7, 1930.
Coffee and chicory compound. Wm. B. Reily & Company. 268,501; Mar. 18; Serial No. 288,726; published Jan. 7, 1930.
Coffee, tea, and cocoa. E. J. Butler. 268,800; Mar. 18; Serial No. 291,655; published Jan. 7, 1930.
Dates. Hills Brothers Company. 268,799; Mar. 18; Serial No. 291,829; published Jan. 7, 1930.
Dates, Raw. L. V. Walsh. 268,506; Mar. 18; Serial No. 287,166; published Jan. 7, 1930.
Dessert powder. Alfred Bird & Sons, Limited. 268,479; Mar. 18; Serial No. 290,539; published Nov. 26, 1929.
Doughnuts. Cream Fried Cake Co. 268,566; Mar. 18; Serial No. 292,795; published Jan. 7, 1930.
Eggs, ham, bacon, etc. H. L. Handy Company. 268,480; Mar. 18; Serial No. 290,511; published Dec. 24, 1929.
Feed. Schreiber Milling & Grain Co. 268,711; Mar. 18; Serial No. 282,062; published Jan. 7, 1930.
Feed, Livestock. Schreiber Milling & Grain Co. 268,709; Mar. 18; Serial No. 282,065; published Jan. 7, 1930.
Feed, Poultry. Schreiber Milling & Grain Co. 268,710; Mar. 18; Serial No. 282,064; published Jan. 7, 1930.
Feed, Poultry. Schreiber Milling & Grain Co. 268,723; Mar. 18; Serial No. 282,061; published Jan. 7, 1930.
Feeds. Meridian Grain & Elevator Co. 268,628; Mar. 18; Serial No. 291,904; published Jan. 7, 1930.
Flour. Bliss Milling Company. 268,638; Mar. 18; Serial No. 288,636; published Dec. 31, 1929.
Flour, Waffle. C. W. Hollbaugh. 268,934; Mar. 18.
Flour, Wheat. Federal Mill & Elevator Co. 268,641; Mar. 18; Serial No. 285,350; published Jan. 7, 1930.
Flour, Wheat. Phoenix Flour Mill. 34,150; renewed Feb. 6, 1930.
Food. Certain. Lippincott Company. 76,815; renewed Feb. 15, 1930.
Food for infants and invalids. Fairchild Bros. & Foster. 34,242; renewed Feb. 27, 1930.
Food products. B. Westergaard & Co. 268,504; Mar. 18; Serial No. 287,514; published Jan. 7, 1930.
Foods, Dietetic. Troponwerke Dinklage & Co. 268,864; Mar. 18; Serial No. 289,607; published Dec. 17, 1929.
Fruits. Homeland Citrus Growers Association. 268,583; Mar. 18; Serial No. 292,728; published Jan. 7, 1930.
Fruits, Fresh. E. G. and A. H. Vivell. 78,217; renewed May 31, 1930.
Fruits, Fresh citrous. Sierra Vista Packing Association. 268,938; Mar. 18.

Fruits, Fresh deciduous. Berney & Company. 268,831; Mar. 18; Serial No. 291,046; published Jan. 7, 1930.
Fruits, Preserved. Texas Preserving Company. 268,737; Mar. 18; Serial No. 274,295; published Jan. 7, 1930.
Goulash. Victor Goulash Co. 268,836; Mar. 18; Serial No. 289,858; published Dec. 31, 1929.
Grain products. Maple Leaf Milling Company Limited. 268,633; Mar. 18; Serial No. 290,712; published Dec. 31, 1929.
Grapes and vegetables, Fresh. H. E. Jacob. 268,497; Mar. 18; Serial No. 290,466; published Jan. 7, 1930.
Grapes, Fresh. Kings River Fruit Association. 268,615; Mar. 18; Serial No. 262,216; published Jan. 7, 1930.
Honey. Colorado Honey Producers Association. 268,708; Mar. 18; Serial No. 282,225; published July 16, 1929.
Honey. G. Morrison. 268,473; Mar. 18; Serial No. 291,572; published Dec. 24, 1929.
Honey. E. W. Pierce. 268,474; Mar. 18; Serial No. 291,633; published Dec. 24, 1929.
Ice-cream bars and coating therefor. Blanke Baer Extract & Preserving Company. 268,911; Mar. 18.
Ice cream, ices, and frozen custards. Fussell-Young Ice Cream Co. 268,726; Mar. 18; Serial No. 281,417; published Jan. 7, 1930.
Icing base. Best Foods, Inc. 268,476; Mar. 18; Serial No. 291,492; published Jan. 7, 1930.
Macaroni. Lincoln Macaroni Mfg. Company. 268,472; Mar. 18; Serial No. 291,989; published Dec. 31, 1929.
Malt syrup. Schoenhofen Company. 268,625; Mar. 18; Serial No. 238,141; published Jan. 11, 1927.
Mayonnaise. E. E. Pray. 268,481; Mar. 18; Serial No. 290,425; published Jan. 7, 1930.
Mayonnaise, celery sauce, salad dressing, and sandwich spread. H. and F. Food Products Corporation. 268,856; Mar. 18; Serial No. 270,376; published Dec. 24, 1929.
Mayonnaise dressing, sandwich spread, etc. S. P. Snyder. 268,478; Mar. 18; Serial No. 290,977; published Dec. 24, 1929.
Nuts, Salted mixed. Great Atlantic & Pacific Tea Company. 268,809; Mar. 18; Serial No. 292,708; published Jan. 7, 1930.
Olive oil. Geraldi-Dorman, Inc. 268,683; Mar. 18; Serial No. 277,580; published Jan. 7, 1930.
Peach preserves, apple butter, grape jam, pickles, etc. M. S. Woods. 268,623; Mar. 18; Serial No. 247,878; published Jan. 7, 1930.
Peanut brittle. Tom Huston Peanut Company. 268,582; Mar. 18; Serial No. 292,878; published Jan. 7, 1930.
Pears, Fresh prickly. P. Lo Bue. 268,495; Mar. 18; Serial No. 291,280; published Jan. 7, 1930.
Pectin. California Fruit Growers Exchange. 268,741; Mar. 18; Serial No. 273,861; published Dec. 31, 1929.
Pickle relish, Sweet. Best Foods, Inc. 268,475; Mar. 18; Serial No. 291,493; published Jan. 7, 1930.
Potatoes and onions, Fresh. Wolff & Owens. 268,906; Mar. 18.
Potatoes, Fresh. T. J. Reardon, Inc. 268,496; Mar. 18; Serial No. 291,177; published Jan. 7, 1930.
Pudding in powdered form. I. Rokeach & Sons, Inc. 268,730; Mar. 18; Serial No. 276,334; published Dec. 24, 1929.
Salad dressing. Rheinstrom Bros. Company. 268,470; Mar. 18; Serial No. 292,288; published Dec. 31, 1929.
Salad dressing and sandwich spread. J. J. Davilla. 268,870; Mar. 18; Serial No. 285,964; published Jan. 7, 1930.
Sausage specialty. Roberts and Oake, Inc. 268,811; Mar. 18; Serial No. 292,336; published Jan. 7, 1930.
Substances used as food or as ingredients in food. Liebig's Extract of Meat Company, Limited. 34,414; renewed Apr. 3, 1930.
Sugar powder, White malt-. Schreiber Products Corporation. 268,482; Mar. 18; Serial No. 290,091; published Jan. 7, 1930.
Syrup, Combination. Roddenbery Brothers. 268,613; Mar. 18; Serial No. 265,295; published July 24, 1928.
Syrup, Malt. M. Epstein. 268,471; Mar. 18; Serial No. 291,915; published Jan. 7, 1930.
Syrup, Malt. Green Mountain Packing Company. 268,614; Mar. 18; Serial No. 264,230; published Jan. 8, 1929.
Syrup, Malt. L. A. Podesta. 268,477; Mar. 18; Serial No. 291,472; published Dec. 31, 1929.
Syrup, Malt. A. H. Rosenbaum. 268,843; Mar. 18; Serial No. 272,353; published May 28, 1929.
Syrups and molasses. Towle Syrup Company. 34,335; renewed Mar. 20, 1930.
Tea. Joseph Tetley & Co. 268,510–11; Mar. 18; Serial Nos. 289,597–8; published Nov. 5, 1929.
Teas. Park & Tilford. 78,020; renewed May 24, 1930.
Vegetables. H. P. Stassforth. 268,794; Mar. 18; Serial No. 292,056; published Jan. 7, 1930.
Vegetables and fruit, Fresh. P. P. Schoenburg. 268,795; Mar. 18; Serial No. 292,053; published Jan. 7, 1930.
Vegetables, fruits, and citrus fruits, Fresh. S. V. Christerson. 268,803; Mar. 18; Serial No. 291,438; published Jan. 7, 1930.

CLASS 48

Beer. Los Angeles Brewing Co. 77,982; renewed May 17, 1930.
Beverages. Miller High Life Company. 268,814; Mar. 18; Serial No. 292,677; published Jan. 7, 1930.

CLASS 49

Gin. Dr. H. Schlichte. 268,521; Mar. 18; Serial No. 285,303; published Jan. 7, 1930.

CLASS 50

Signs, Advertising. Ingram-Richardson Manufacturing Co. 78,975; renewed July 26, 1930.

ALPHABETICAL LIST OF LABELS

Antikauma. For a Salve. Greek Burn Remedy Co. 37,263; Mar. 18.
Bigeloil for Athletic and Family Use. For a Medicinal Oil Suitable for Both Human Beings and Animals and Intended for External Use. Bigelow-Clark, Inc. 37,250; Mar. 18.
Dixie Duke's Famous Hamburgs. For Sandwiches. F. T. Helms. 37,267; Mar. 18.
Dr. Whites Hem-O-Ro Liquid Pile Medicine. For Medicine. First National Laboratories Inc. 37,254; Mar. 18.
Dr. Whites Hem-O-Ro Liquid Pile Medicine. For Medicine. First National Laboratories Inc. 37,257; Mar. 18.
Dr. Whites Hem-O-Ro Pile Pills. For Medicine. First National Laboratories Inc. 37,255; Mar. 18.
Dr. Whites Hem-O-Ro Pile Treatment. For Medicine. First National Laboratories Inc. 37,256; Mar. 18.
Dr. Whites Hygenic Powder. For Powder for Personal Hygienic Use. First National Laboratories Inc. 37,253; Mar. 18.
Dr. Whites Hygenic Powder. For Powder for Personal Hygiene. First National Laboratories Inc. 37,258; Mar. 18.
E-A-P Pewter, Early American Pewter Company. For Pewter. Early American Pewter Co. 37,251; Mar. 18.
Football Bread. For Bread. M. Ronsone. 37,273; Mar. 18.
Freshbake. For Bread. Grand Union Company. 37,262; Mar. 18.
Globe White Lime Finish. For Polishing Abrasive. Hanson-Van Winkle-Munning Company. 37,266; Mar. 18.
Gold Bond. For Baby Powder. Gold Bond Sterilizing Powder Co. 37,261; Mar. 18.
Kasper's Sip of Gold Coffee. For Coffee. A. J. Kasper Company. 37,268; Mar. 18.
Kro-Kling. For Paints. Allentown Paint Manufacturing Company. 37,249; Mar. 18.
Montana Sapphire Bread. For Bread. Montana Flour Mills Company. 37,269; Mar. 18.
Pearl Cream. For Face Cream. Elmers Pearl Cream Company. 37,252; Mar. 18.
Play Tape for the Kiddies. For Gummed Paper, Gummed Products Company. 37,264; Mar. 18.
Ronn Dykaree. For Flavoring Sirups and Sauces. J. Cederlunds Söner. 37,276; Mar. 18.
Savigne Double Dipped Jumbo Peanuts. For Chocolate-Covered Peanuts. General Nut Co. 37,260; Mar. 18.
Savigne Double Dipped Raisins. For Chocolate-Covered Raisins. General Nut Co. 37,259; Mar. 18.
Schaub's Dixie Brand Products. For Potato Chips. A. A. Schaub. 37,274; Mar. 18.
Senorita Hosiery. For Hosiery. Senorita Hosiery Company. 37,275; Mar. 18.
Shine Proof. For Garments. Navytone Co. 37,271; Mar. 18.
Sue-Preme. For Fresh Grapes. Richman & Samuels Inc. 37,272; Mar. 18.
T. B. K. Liniment. For Liniment. Mrs. M. A. Hammond. 37,265; Mar. 18.
Zanza-Gum. For Chewing Gum. National Pepsin Gum Company. 37,270; Mar. 18.

ALPHABETICAL LIST OF PRINTS

Champion Hardware for Better Buildings. For Hardware. Champion Hardware Company. 12,450; Mar. 18.
Coffee Fresh as the Dawn. For Coffee. Mannings, Inc. 12,453; Mar. 18.
Drink Moxie Distinctively Different. For Beverages. Moxie Company of America. 12,454; Mar. 18.
El Producto for Real Enjoyment. For Cigars. G. H. P. Cigar Co. 12,452; Mar. 18.
Frank Archer Says—Moxie is the Best 10 Cent Drink in the World. For Beverages. Moxie Company of America. 12,455; Mar. 18.
La France. For Hosiery. Marshall Field & Company. 12,451; Mar. 18.
The New and Better Suspenders. For Suspenders. W. Schnabel. 12,456; Mar. 18.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Welcome F., Mount Vernon, Ill. Infant's bath and drier. 1,750,698; Mar. 18.
Acme Motion Picture Projector Company. (See De Vault, Ralph P., assignor.)
Acme Road Machinery Company. (See Cook, David B., assignor.)
Adam, William, Staunton, Ill. Safety bumper-actuated control for vehicles. 1,751,186; Mar. 18.
Adams, Walter S., and E. Latshaw, assignors to The J. G. Brill Company, Philadelphia, Pa. Vestibule mounting for high-speed articulated cars. 1,751,300; Mar. 18.
Adlake Company, The. (See Sevison, Harry D., assignor.)
Adolph, Gustav, and A. Pietzsch, Hoellriegelskreuth, near Munich, Germany. Bleaching. 1,750,657; Mar. 18.
Aeolian Company, The. (See Bostelmann, John C., jr., assignor.)
Ahlum, Charles C., Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive and manufacture. 1,751,064; Mar. 18.
Aktieselskabet Dansk Gaerings Industri. (See Simmer, Fritz, assignor.)
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Center-bearing construction for railway cars. 1,751,065; Mar. 18.
Aldrich Pump Company, The. (See Moyer, F. W., and Reninger, assignors.)
Alison, Brisbane J., Detroit, Mich. Sharpening device for lawn mowers. 1,751,020; Mar. 18.
Allan, Archibald, North Shields, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England. Insulating bushing for electrical apparatus. 1,751,379; Mar. 18.
Alland, Maurice, Atlantic City, N. J. Cigarette-making machine. 1,751,121; Mar. 18.
Allen, William H., assignor, by mesne assignments, to Parker Rust Proof Company, Detroit, Mich. Chemical apparatus. 1,750,617; Mar. 18.
All-Ways-Hot Mfg. Co. (See Goshorn, Robert R., assignor.)
Aluminum Goods Manufacturing Company. (See Drumm, Elmer E., assignor.)
Alze, Karl, Dortmund, Germany. Locomotive-engine draft regulator. 1,751,187; Mar. 18.
American Blower Corporation. (See Morse, Clark T., assignor.)
American Brass Company, The. (See Coe, James R., assignor.)
American Brass & Fire Equipment Corporation. (See Diez, Conrad J., assignor.)
American Electric Company. (See Stanton, Willard J., assignor.)
American Gasaccumulator Company. (See Boots, E. R., Luce, and Oestnaes, assignors.)
American Optical Company. (See Baker, Nelson M., assignor.)
American Radiator Company. (See Dillman, Earnest J., assignor.)
American Slicing Machine Company. (See Campbell, William J., assignor.)
American Telephone and Telegraph Company. (See Bown, Ralph, assignor.)
American Telephone and Telegraph Company. (See Glezen, L. L., Stigers, and Taylor, assignors.)
American Telephone and Telegraph Company. (See Green, Estill I., assignor.)
American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)
American Telephone and Telegraph Company. (See St. John, Everett, assignor.)
American Utensil Company. (See Schaefer, Frank M., assignor.)
Anderson, Arvid E., Lansdowne, Pa., assignor to General Electric Company. System of electric distribution. 1,751,380; Mar. 18.
Anderson, August, Shoshoni, Wyo. Wire stretcher. 1,751,381; Mar. 18.
Anderson, Charles M., Salt Lake City, Utah. Meter. 1,751,021; Mar. 18.
Anderson, Frederick V. and R. T., assignors to The V. D. Anderson Company, Cleveland, Ohio. Screw press. 1,750,916; Mar. 18.
Anderson, Raymond T. (See Anderson, Frederick V. and R. T.)
Anderson, V. D., Company, The. (See Anderson, Frederick V. and R. T., assignors.)
Archer, Clodien, Meximieux, France. Mounting the dies used as in production of metal threads or wires. 1,751,382; Mar. 18.
Arizona Minerals Corporation. (See Lindsay, Frederick K., assignor.)
Armstrong, Charles C., assignor to The Armstrong Electric and Manufacturing Corporation, Huntington, W. Va. Coffee percolator. Des. 80,717; Mar. 18.
Armstrong Electric and Manufacturing Corporation, The. (See Armstrong, Charles C., assignor.)
Armstrong Manufacturing Company. (See Watson, George R., assignor.)
Arnold, William L. (See Hopper, C., and Arnold.)
Aronson, Louis, and A. Feldblet, Brooklyn, N. Y. Flavoring tea. 1,750,768; Mar. 18.
Arrow-Hart & Hegeman Electric Company, The. (See Guett, Monroe, assignor.)
Art Fixtures, Inc. (See Hoffmann, Otto, assignor.)
Asafoff, Nikolai I., Moscow, Union of Socialist Soviet Republics. Automatic bobbin-changing mechanism for looms. 1,751,224; Mar. 18.
Ashbaugh, John H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Regulator system. 1,751,225; Mar. 18.
Ashworth, Harry E., and B. Laxich, Pittsburgh, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,750,658; Mar. 18.
Askey, James, London, England. Bottle-capping machine. 1,751,022; Mar. 18.
Associated Factories Corporation. (See Cumpston, Frederick B., assignor.)
Atkins, Frank P., assignor to Atkins & Pearce Manufacturing Company, Cincinnati, Ohio. Bead cord. 1,751,383; Mar. 18.
Atkins & Pearce Manufacturing Company. (See Atkins, Frank P., assignor.)
Augmentine Holding S. A. (See Matti, Jean, assignor.)
Aune, Richard J., Fergus Falls, Minn. Drying apparatus. 1,751,023; Mar. 18.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Process and apparatus for testing insulators. 1,750,699; Mar. 18.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator pin. 1,750,769; Mar. 18.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator pin. 1,750,770; Mar. 18.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Condenser lightning protection device. 1,750,771; Mar. 18.
Austin Manufacturing Co. (See Wilson, Fred D., assignor.)
Automatic Electric Inc. (See Lomax, Clarence E., assignor.)
Automatic Electric Inc. (See Obergfell, Herbert F., assignor.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Automatic Washer Company. (See Cammack, Clifton C., assignor.)
Ayars, Harry D., Salem, N. J. Depositor. 1,751,384; Mar. 18.
Babcock & Wilcox Company. (See Jacobus, David S., assignor.)
Babcock & Wilcox Company, The. (See Kemnal, James, assignor.)
Bach, George W., assignor to Union Iron Works, Erie, Pa. Steam boiler. 1,750,985; Mar. 18.
Bagley, Robert M., Haddonfield, N. J., assignor to The R. M. Hollingshead Co. Apparatus for making soap solution. 1,751,301; Mar. 18.
Baird, Dudley. (See Fowler, E. J., and Baird.)
Baker, Frank C., McCamey, Tex. Shock absorber for oil-well pump rods. 1,750,917; Mar. 18.
Baker, Nelson M., assignor to American Optical Company, Southbridge, Mass. Goggles. 1,751,024; Mar. 18.
Baldwin, Lewis H., Oklahoma City, Okla. Emergency wheel for aeroplanes. 1,750,950; Mar. 18.
Bandlow, Walter E. (See Pelletier, E. F., and Bandlow.)
Banschbach, Edward A., Chicago, Ill. Filing device. 1,751,025; Mar. 18.
Barclay, Gustaf I., assignor to Detroit Steel Products Company, Detroit, Mich. Window screen. 1,750,659; Mar. 18.
Barker, John J., Allston, Mass. Valve. 1,751,122; Mar. 18.
Barletta, John, Galt, Calif. Combustion engine. 1,750,918; Mar. 18.
Barnes, Nathaniel C. (See Cocks, Harry J., assignor.)
Barry, Walter M., New York, N. Y. Display or advertising device. 1,750,986; Mar. 18.
Bates, Arthur, and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Attachment of binding and like strips to article. 1,751,128; Mar. 18.
Bausch & Lomb Optical Company. (See Day, George H., assignor.)

Bausch & Lomb Optical Company. (See Kellner, G. A. H., and Rayton, assignors.)
Bausch & Lomb Optical Company. (See Olsen, William R., assignor.)
Bausch & Lomb Optical Company. (See Smith, George M., assignor.)
Bausch & Lomb Optical Company. (See Stark, Sander, assignor.)
Baush Machine Tool Company. (See Oakley, John, assignor.)
Bayliff, Frank, Butte, Mont., and G. M. Nell, Detroit, Mich., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Shell mount for rock drills. 1,751,302; Mar. 18.
Bayuk Cigars Incorporated. (See Wurman, Harry P., assignor.)
Beattey, Earle J. R., Edgewood, assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,750,987; Mar. 18.
Beaudry, George P., Montreal, Quebec, Canada. Internal-combustion engine. 1,751,385; Mar. 18.
Becker, Gabriel, Charlottenburg, Germany. Supercharging method for internal-combustion engines. 1,750,919; Mar. 18.
Beckwith, Edward S., Albion, Nebr. Rope halter. 1,751,226; Mar. 18.
Beecher, Titus A., Chicago, Ill. Apparatus for flowing oil wells. 1,750,951; Mar. 18.
Beemer, Frank, Philadelphia, Pa. Antifriction wheel. 1,751,453; Mar. 18.
Behle, Joseph, assignor to the Murray Company, Dallas, Tex. Finishing cotton-gin ribs. 1,750,741; Mar. 18.
Behrman, Marcus B., Brooklyn, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Surgeon's knife. 1,751,227; Mar. 18.
Belden, Joseph C., assignor to Belden Manufacturing Company, Chicago, Ill. Floor cord. 1,751,386; Mar. 18.
Belden Manufacturing Company. (See Belden, Joseph C., assignor.)
Belden Manufacturing Company. (See Wermine, Hugo H. assignor.)
Bell Telephone Laboratories, Incorporated. (See Cesareo, Orfeo, assignor.)
Bell Telephone Laboratories, Incorporated. (See Johnson, Herbert B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Wentz, Jesse F., assignor.)
Belluche, Elmer W., assignor to Christensen Machine Company, Racine, Wis. Delivery mechanism for signature stitching machines. 1,750,622; Mar. 18.
Benbow, John T. (See Holt, Fred L., assignor.)
Bendix Brake Company. (See Norton, Raymond J., assignor.)
Bendix Brake Company. (See Taylor, Cecil H., assignor.)
Benner, Raymond C., Bayside, and A. P. Thompson, Jackson Heights, assignors to General Chemical Company New York, N. Y. Producing elemental sulphur. 1,751,066; Mar. 18.
Benner, Raymond C., Bayside, and A. P. Thompson, Jackson Heights, assignors to General Chemical Company, New York, N. Y. Producing elemental sulphur. 1,751,067; Mar. 18.
Benner, Raymond C., Bayside, and A. P. Thompson, Jackson Heights, assignors to General Chemical Company, New York, N. Y. Producing elemental sulphur. 1,751,068; Mar. 18.
Bennett, Bartlett R., Mineola, N. Y. Radiator-shutter-control structure. 1,750,618; Mar. 18.
Bennett, Irving T. (See Murray, T. E., jr., and Bennett.)
Bennis, Alfred W., Bolton England. Furnace construction. 1,751,188; Mar. 18.
Bergeim, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting explosive. 1,751,436; Mar. 18.
Bergeim, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Gelatinised explosive and process of manufacture. 1,751,437; Mar. 18.
Bergeim, Frank H., Leonia, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrated sorbitol. 1,751,438; Mar. 18.
Berger, John A. (See Berger, William F. and J. A.)
Berger, William F. and J. A., Canton, Ohio. Roller bearing. 1,751,189; Mar. 18.
Bergmann-Elektricitäts-Werke Aktiengesellschaft. (See Pape, Wilhelm, assignor.)
Bernfeld, Samuel, assignor to International Footwear Co. Inc., Worcester, Mass. Slipper. Des. 80,718; Mar. 18.
Berry, Hiram N., assignor to Cotton Harvester Corporation of America, Greenville, Miss. Cotton picker. 1,750,952; Mar. 18.
Bersted, Martin C., San Diego, Calif. Electric flatiron. 1,751,124; Mar. 18.
Bersted, Martin C., San Diego, Calif. Flatiron construction. 1,751,125; Mar. 18.
Berthélemy, Pierre, and H. de Montby, Paris, France. Alloy. 1,750,700; Mar. 18.
Bessonett, Leland S., San Francisco, Calif., assignor, by mesne assignments, to Standard Oil Company of California. Coupling. 1,750,790; Mar. 18.
Bethel, Claude, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Flexible gear wheel. 1,751,228; Mar. 18.
Betz, Harry D., Kansas City, Mo. Housing of air-cooling unit. Des. 80,763; Mar. 18.
Beus, Edmond M. (See Rawlings, Jack V., assignor.)
Beyer, Herbert G., Baltimore, Md. Musical instrument. 1,750,791; Mar. 18.
Beyer, Herbert G., Baltimore, Md. Musical instrument. 1,750,792; Mar. 18.
Biclek, Stanley M., Pittsburgh, Pa. Heating device. 1,751,387; Mar. 18.
Bigelow, Leon G., St. Paul, Minn. Bag. 1,751,229; Mar. 18.
Bircher, Charles E., Hedrick, Iowa. Poultry feeder. 1,751,388; Mar. 18.
Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Motor. 1,750,920; Mar. 18.
Blackburn, William F., Columbia, S. C. License button and fastener therefor. 1,750,772; Mar. 18.
Blackhawk Manufacturing Co. (See Pfauser, Edward M., assignor.)
Blackstone Silver Company. (See Ittig, George P., assignor.)
Blain, Albert, Philadelphia, Pa. Footwear. 1,751,069; Mar. 18.
Blake, William A., East Chattanooga, Tenn., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole end. Des. 80,719; Mar. 18.
Blanchard, Lester L., Presque Isle, Me., assignor to H. Crepeau, Montreal, Quebec, Canada. Chimney. 1,751,026; Mar. 18.
Blaw Knox Company. (See Schieldrop, Bjarne H., assignor.)
Bledsoe, Oscar F., jr., Greenwood, Miss. Doffing device. 1,751,389; Mar. 18.
Bliss, Harold N., Ithaca, N. Y. Selective electrical tuning. 1,750,660; Mar. 18.
Bolx, Mariano A., Mayaguez, P. R. Collar. 1,751,027; Mar. 18.
Boots, Edmund R., Short Hills, R. W. Luce, Maplewood, and V. L. Oestnaes, Westfield, assignors to American Gasaccumulator Company, Elizabeth, N. J. Reflector for automobiles. 1,751,070; Mar. 18.
Bosley, Maurice E., Chicago, Ill. Weather stripping. 1,751,454; Mar. 18.
Bostelmann, John C., jr., New York, N. Y., assignor, by mesne assignments, to The Aeolian Company. Musical apparatus. 1,750,988; Mar. 18.
Botfield, Leonard B. (See Faber, Leon, assignor.)
Boutet, René E., Paris, France. Automatic change-gear mechanism. 1,751,303; Mar. 18.
Bown, Ralph, Maplewood, N. J., assignor to American Telephone and Telegraph Company. Cathode-ray oscillograph. 1,750,661; Mar. 18.
Boyer, James M., Urbana, Ill. Jack for fence-wire stretchers. 1,751,190; Mar. 18.
Boynton, Alexander, San Antonio, Tex. Rotary reamer. 1,750,953; Mar. 18.
Bradbury, Clifford C., assignor, by mesne assignments, to C. B. Camp, trustee, Oak Park, Ill. Suction-producing mechanism. 1,750,742; Mar. 18.
Bradfield, Louis G., Los Angeles, Calif. Folding gate. 1,750,989; Mar. 18.
Bradley, Charles E., Mishawaka, Ind. Denture. 1,750,619; Mar. 18.
Brady, Charles, Brooklyn, assignor to C. E. Marion, New York, N. Y. Automatic liquid-fuel dispenser. 1,751,073; Mar. 18.
Brandes, Joseph D. (See Steele, J. A., and Brandes.)
Brandt, Gustav O., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Clip-applying tool. 1,751,071; Mar. 18.
Brandt, Gustav O., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Assembling spring structures. 1,751,072; Mar. 18.
Brant, Jesse H., Youngstown, Ohio. Locking device for weighing scales. 1,750,623; Mar. 18.
Brauer, Walter, Seminole, Okla. Pressure-feed lubricator. 1,750,701; Mar. 18.
Bremer, William A., Los Angeles, Calif. Water-measuring apparatus. 1,750,872; Mar. 18.
Bremerman, Frank B., Indianapolis, Ind. Speed boat. 1,750,743; Mar. 18.
Briel, Kurt, Brooklyn, N. Y. Commutator cleanser. 1,750,990; Mar. 18.
Briggs, Arthur J., Syracuse, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor valve. 1,751,230; Mar. 18.
Bright, William P., Bethlehem, Pa. Adjustable door jamb. 1,750,921; Mar. 18.
Brill, J. G., Company, The. (See Adams, W. S., and Latshaw, assignors.)
Bristol, Wm. H., Talking Picture Corporation. (See Pinkler, Arthur P., assignor.)
Brittingham, Verner D., assignor of one-half to J. O. Naylor, San Antonio, Tex. Arithmetical top and dice game. 1,750,620; Mar. 18.
Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Plaster wall board and making same. 1,750,621; Mar. 18.
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,751,804; Mar. 18.
Brown, George E., Croydon, near Sydney, Australia. Bracket coupling for apparatus for electric-lighting systems. 1,751,262; Mar. 18.

Brown, George R., Bridgeport, Conn., assignor to General Electric Company. Fuse plug. 1,751,439; Mar. 18.
Brown, Oliver H., Davenport, Iowa. Terminal for electric wires. 1,750,703; Mar. 18.
Brownell Company, The. (See Little, Clarence B., assignor.)
Browning Crane Company. (See Christie, John W., assignor.)
Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)
Brust, Walter W., Weston, W. Va. Box forming and sealing device. 1,751,390; Mar. 18.
Buck, Everett S., and L. B. Mettler, Los Angeles, Calif. Ventilating system. 1,750,873; Mar. 18.
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Budd, Edward G., Manufacturing Co. (See Stever, William, assignor.)
Budd Wheel Company. (See Hunt, J. H., and Evans, assignors.)
Budd Wheel Company. (See Smith, John W., assignor.)
Buedingen, William L., Milwaukee, Wis. Box-tray support. 1,750,624; Mar. 18.
Bunker, Charles A., assignor to Bunker-Clancey Manufacturing Company, Kansas City, Mo. Adjustable fixture for window-shade, curtain, and drapery supports. 1,751,126; Mar. 18.
Bunker-Clancey Manufacturing Company. (See Bunker, Charles A., assignor.)
Bunker, William G., Augusta, Me. Potato separator. 1,751,891; Mar. 18.
Burch, Alfred E., Melbourne, Victoria, Australia. Appliance for vulcanizing covers of pneumatic tires. 1,751,392; Mar. 18.
Burmester, Ernst, Burg, near Bremen, and H. Hein, Bremen, assignors to Yacht- und Bootswerft Burmester m. b. H., Burg, near Bremen, Germany. Boat. 1,750,773; Mar. 18.
Burns, Alfred P. (See Heald, R. N., Guild, Burns, and Garno.)
Busby, Junius E., Jackson, assignor of one-half to T. A. Gabbard, Oakdale, Ky. Combined track level and gauge. 1,751,393; Mar. 18.
Busch-Sulzer Bros.-Diesel Engine Company. (See Kägi, Emil, assignor.)
Bustamante, Cesar, New York, N. Y. Picture toy. 1,750,991; Mar. 18.
Butler Manufacturing Company. (See Fahlstrom, John G., assignor.)
Cairns Development Company. (See Carns, Edmund B., assignor.)
Camel Company. (See Wasberg, A., and Tobin, assignors.)
Camm, Sydney. (See Sigrist, F., and Camm.)
Cammack, Clifton C., assignor to Automatic Washer Company, Newton, Iowa. Washing machine. 1,751,446; Mar. 18.
Camp, Curtis B., trustee. (See Bradbury, Clifford C., assignor.)
Camp, Curtis B., trustee. (See Stokes, Charles L., assignor.)
Campbell, Arthur C., Tulsa, Okla. Tonsillotome. 1,750,874; Mar. 18.
Campbell, Elba E., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Heater valve. 1,751,441; Mar. 18.
Campbell, Lorn, jr., Lakewood, assignor to The Harris Calorific Company, Cleveland, Ohio. Adapter for blowpipes. 1,751,447; Mar. 18.
Campbell, Lorn, jr., Lakewood, assignor to The Harris Calorific Company, Cleveland, Ohio. Blowpipe tip and making same. 1,751,448; Mar. 18.
Campbell, William J., Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill. Slicing machine. 1,750,662; Mar. 18.
Canada Gypsum and Alabastine, Limited. (See Haire, R. E., and Thomson, assignors.)
Canada Gypsum and Alabastine, Limited. (See Thomson, George M., assignor.)
Canavan, William F., et al. (See Lofy, George C., assignor.)
Candlemy, Georg, Berlin, Germany, assignor, by mesne assignments, to International Coal Carbonization Company. Rotary retort, kilns, or drum. 1,751,127; Mar. 18.
Carborundum Company, The. (See Mack, John R., assignor.)
Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)
Carl, Frederick, Washington, D. C. Wheel puller. 1,750,702; Mar. 18.
Carl, Gustav R., Chicago, Ill. Window construction. 1,750,703; Mar. 18.
Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Making metal fabrics. 1,750,831; Mar. 18.
Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Wing construction for aircraft. 1,750,832; Mar. 18.
Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Tubular member. 1,750,833; Mar. 18.
Carns, Edmund B., New York, N. Y., assignor to Cairns Development Company, Wilmington, Del. Metal fuselage. 1,750,834; Mar. 18.
Carpentier, Melbourne L., assignor to Chrysler Corporation, Detroit, Mich. Oil filler. 1,751,440; Mar. 18.
Carter, Vetabelle P., San Francisco, Calif. Illuminated highway signal. 1,750,625; Mar. 18.
Caswell, Thomas W., and G. A. Kelly, Flint, Mich.; said Caswell assignor to said Kelly. Method of and apparatus for manufacturing concrete header blocks. 1,751,028; Mar. 18.
Caufield, Jacob S. (See Smith, F. L., Caufield, and Peterson.)
Caute, Louis, Esanville, France, assignor to L. Henry, Changai, China. Apparatus for the preparation of cinematographic films. 1,750,704; Mar. 18.
Central Brass & Fixture Company, The. (See Dennis, Albert O., assignor.)
Central Glass Works. (See Schaub, Edward J., assignor.)
Central Trust Company, administrator. (See Pierce, E. F., and Dickinson.)
Cesareo, Orfeo, Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical switching system. 1,751,263; Mar. 18.
Chain Belt Company. (See Longenecker, Charles I., assignor.)
Chamberlain Corporation. (See Chamberlain, Floyd L., assignor.)
Chamberlain, Floyd L., assignor to Chamberlain Corporation, Waterloo, Iowa. Wringer. 1,750,885; Mar. 18.
Chamberlain, Maurice S., Malvern, Ark. Rotary core bit. 1,750,744; Mar. 18.
Champion Washer Company. (See Lasar, Frank J., assignor.)
Cheakas, George G., and J. H. Martin, assignors of one-third to R. R. Fisk, Wichita Falls, Tex. Separating device. 1,750,922; Mar. 18.
Chemical Engineering Corporation. (See Richardson, Ralph S., assignor.)
Cherry-Burrell Corporation. (See Feldmeier, Harvey, assignor.)
Chiasson, George, known as Chisholm, Paris, France, assignor to United Shoe Machinery Corporation, Paterson, N. J. Nail-bedding machine for clog making. 1,750,705; Mar. 18.
Chicago Pneumatic Tool Company. (See Bayliff, F., and Nell, assignors.)
Chicago Pneumatic Tool Company. (See Nell, Gustave M., assignor.)
Christensen, Lewis H. (See D'Ardenne, W. H., Landis, and Christensen.)
Christensen Machine Company. (See Belluche, Elmer W., assignor.)
Christensen, Niels A., Milwaukee, Wis. Brake mechanism. 1,750,875; Mar. 18.
Christie, John W., Avon, N. J., assignor, by mesne assignments, to Browning Crane Company, Cleveland, Ohio. Drive for motor vehicles. 1,751,394; Mar. 18.
Chromeplate, Inc. (See Lichtman, Louis, assignor.)
Chrysler Corporation. (See Campbell, Elba E., assignor.)
Chrysler Corporation. (See Carpentier, Melbourne L., assignor.)
Chrysler Corporation. (See Cochrane, Walter S., assignor.)
Clark, Cecil F. (See Clark, Mabel V. and C. F.)
Clark, Mabel V. and C. F., Jersey City, N. J. Mounting means for snap fasteners. 1,750,992; Mar. 18.
Clarkson, John L., Nashville, Ill. Loading machinery. 1,750,876; Mar. 18.
Clayton & Lambert Manufacturing Company. (See Lambert, Charles F., assignor.)
Clemence, Elliott, New York, N. Y., assignor, by mesne assignments, to The Monowatt Electric Corporation, Bridgeport, Conn. Three-way current tap socket. 1,751,442; Mar. 18.
Coberly, Clarence J., assignor to Kobe, Inc., Los Angeles, Calif. Auxiliary-jet cutting tip for cutting torches. 1,751,191; Mar. 18.
Cochrane, Walter S., assignor to Chrysler Corporation, Detroit, Mich. Internal-combustion engine. 1,751,443; Mar. 18.
Cocks, Harry J., assignor of one-half to N. C. Barnes, Des Moines, Iowa. Dispensing apparatus. 1,751,128; Mar. 18.
Cocks, Harry J., assignor of one-half to N. C. Barnes, Des Moines, Iowa. Dispenser. 1,751,129; Mar. 18.
Coddington, Edwin D., North Milwaukee, Wis. Reenforced building fabric. 1,750,877; Mar. 18.
Coe, James R., Waterbury, assignor to The American Brass Company, Waterbury, Conn. Barrel-handling apparatus. 1,750,878; Mar. 18.
Cohn, Alfred, Charlottenburg, and A. Kummel, Wilmersdorf, Germany, assignors to General Electric Company. Switch contact finger. 1,751,444; Mar. 18.
Collins, George H., Brentford, England. Fire bar. 1,751,395; Mar. 18.
Columbia Axle Company, The. (See Mooers, Louis P., assignor.)
Columbus Handle & Tool Corporation. (See Marientbal, Charles, assignor.)
Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Conley, Brooks L., Canton, Ohio, assignor to The Hoover Company. Universal motor. 1,750,745; Mar. 18.
Cook, David B., assignor to Acme Road Machinery Company, Frankfort, N. Y. Road vehicle. 1,751,074; Mar. 18.
Corbett, John A., assignor to Robert Love Estate, Limited, Honolulu, Hawaii. Box or similar article of manufacture. Des. 80,720; Mar. 18.

Cornelius, William F., and H. Jacobs, Birmingham, Ala. Insect trap. 1,751,130; Mar. 18.
Cornillat, Joseph M. H., Paris, France. Apparatus for manufacturing zinc white. 1,751,396; Mar. 18.
Cornstalk Products Company. (See Darling, Elton R. assignor.)
Costello, James F., San Francisco, Calif. Scaffold raising and lowering device. 1,751,131; Mar. 18.
Cotton Harvester Corporation. (See Berry, Hiram N., assignor.)
Coty, Inc. (See Tourtois, Fernand, assignor.)
Coupland, Richard C., U. S. Army, Norfolk, Va. Synchronized control system for machine guns. 1,750,706; Mar. 18.
Courtney, Michael J., Chicago, Ill. Tree-lighting fixture. 1,750,923; Mar. 18.
Cowen, Anne, New York, N. Y. Bed lamp. 1,750,993; Mar. 18.
Cowie, Florence, London, England. Film-winding mechanism for cinematograph apparatus. 1,751,192; Mar. 18.
Cox, Joseph L. (See Cox, Paul F. and J. L.)
Cox, Paul F. and J. L., assignors to The Goss Printing Press Company, Chicago, Ill. Inking mechanism for traveling-cylinder presses. 1,751,029; Mar. 18.
Crane, Charles R., 2d, Chicago, Ill. Closet. Des. 80,721; Mar. 18.
Creese, Walter, Leicester, England. Hinged last 1,750,626; Mar. 18.
Crepeau, Henri. (See Blanchard, Lester L., assignor.)
Cribben & Sexton Company. (See Wilkinson, George D., assignor.)
Cross, Herman, and T. J. Slagle, Blytheville, Ark. Cheese cutter. 1,751,264; Mar. 18.
Crum, Roland R., assignor to H. C. Smith Manufacturing Company, Whittier, Calif. Expansible underreamer. 1,750,627; Mar. 18.
Crum, Roland R., assignor to H. C. Smith Manufacturing Company, Whittier, Calif. Expansible underreamer. 1,750,628; Mar. 18.
Crum, Roland R., assignor to H. C. Smith Manufacturing Company, Whittier, Calif. Expansible underreamer. 1,750,629; Mar. 18.
Cummings, Ross, Berkeley, assignor to R. D. Pike, Piedmont, Calif. Production of alkali from natural brine. 1,751,132; Mar. 18.
Cumpston, Frederick B., Blooming Grove, assignor to Associated Factories Corporation, Dallas, Tex. Cotton gin. 1,751,305; Mar. 18.
Cumpston, Frederick B., Blooming Grove, assignor to Associated Factories Corporation, Dallas, Tex. Cotton gin. 1,751,306; Mar. 18.
Cumpston, Frederick B., Blooming Grove, assignor to Associated Factories Corporation, Dallas, Tex. Cotton-gin machine. 1,751,307; Mar. 18.
Cumpston, Frederick B., Blooming Grove, assignor to Associated Factories Corporation, Dallas, Tex. Cotton-gin machinery. 1,751,308; Mar. 18.
Cunningham, Arthur B., assignor to Republic Flow Meters Co., Chicago, Ill. CO_2 recorder. 1,751,265; Mar. 18.
Curley, Robert S., assignor to Kitson Machine Shop, Lowell, Mass. Cotton-working machine. 1,751,133; Mar. 18.
Curtis, George W., Milwaukee, Wis., assignor to The Timken Roller Bearing Company, Canton, Ohio. Bearing construction. 1,751,134; Mar. 18.
Cutler, Clifford A., Buffalo, N. Y. Method of and apparatus for drying lumber. 1,750,794; Mar. 18.
Cutler-Hammer, Inc. (See Kennedy, Walter C., assignor.)
Dallimore, Julia E., assignor of one-half to P. M. Dallimore, Los Angeles, Calif. Garment support. 1,751,030; Mar. 18.
Dallimore, Pearl M. (See Dallimore, Julia E., assignor.)
Damerell, Mark H., Worcester, Mass. Sow-block holder for hammers. 1,751,075; Mar. 18.
Daniel, John, assignor to Koehring Company, Milwaukee, Wis. Power swing mechanism for paver booms. 1,751,266; Mar. 18.
Dann, Walter M. (See Styer, C. A., and Dann.)
Darby, John J., Washington, D. C. Sign. 1,751,455; Mar. 18.
D'Ardenne, Walter H., J. Landis, and L. H. Christensen, assignors to Heintz Manufacturing Company, Philadelphia, Pa. Automatic welding. 1,751,077; Mar. 18.
Darling, Elton R., Decatur, Ill., assignor, by mesne assignments, to Cornstalk Products Company, Inc., New York, N. Y. Nonfibrous cellulose flour and making same. 1,751,267; Mar. 18.
Darneal, Jacob H., Houston, Tex. Ice carrier. 1,751,031; Mar. 18.
Darrah, William A., Chicago, Ill. Heat-treating machine. 1,750,924; Mar. 18.
Dart, Robert H., Sacramento, Calif. Automobile jack. 1,750,663; Mar. 18.
Davenport Machine Tool Co. (See Davenport, W. S., and Thomas, assignors.)
Davenport, William S., and W. A. Thomas, assignors to Davenport Machine Tool Co., Inc., Rochester, N. Y. Automatic machine tool. 1,750,836; Mar. 18.
David, Bruce W., Cleveland, assignor to W. M. Scott, Lakewood, Ohio. Variable resistance unit. 1,751,231; Mar. 18.
Davidson, Glenn. (See Laucks, I. F., and Davidson.)
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Piston construction. 1,751,445; Mar. 18.
Davis, Francis H., et al. (See Maehren, George, assignor.)
Davis, Frank L., jr., Kenilworth, assignor to The Watson-Stillman Co., New York, N. Y. Drop-pit apparatus. 1,751,076; Mar. 18.
Davis, Robert L., and D. G. Little, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Vacuum-tube circuits. 1,751,232; Mar. 18.
Dawson, Elma N. (See Dawson, James C., assignor.)
Dawson, James C., assignor to E. N. Dawson, Webster Groves, Mo. Loose-leaf binder. 1,751,135; Mar. 18.
Day, George H., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,750,630; Mar. 18.
Day-Brite Reflector Company. (See Klingsick, Oswald W., assignor.)
Dayton Steel Racquet Company, The. (See Norton, Harold W., assignor.)
Debs, Louis H., Chicago, Ill. Baking pan. 1,751,268; Mar. 18.
Deere & Company. (See Neighbour, Leonard B., assignor.)
Defren, George, Newton, Mass. Treating cacao beans. 1,750,795; Mar. 18.
De Laval Separator Company, The. (See Forsberg, Erik A., assignor.)
De Laval Separator Company, The. (See Petty, Earl, assignor.)
De Laval Steam Turbine Company. (See Waller, Carl R., assignor.)
Delco-Remy Corporation. (See Norviel, Harry E., assignor.)
Delsuc, Emile C., Nancy, France. Coffee filter. 1,751,397; Mar. 18.
De Markus, Louis, Chicago, Ill., and F. B. Leopold; said Leopold assignor to McKenna Brass and Manufacturing Company, Inc., Pittsburgh, Pa. Filter. 1,750,879; Mar. 18.
De Mone, Milton E., Cambridge, Mass. Column shackle. 1,751,309; Mar. 18.
De Montby, Henry. (See Berthélemy, P., and De Montby.)
Dennis, Albert O., Springfield, assignor to The Central Brass & Fixture Company, Dayton, Ohio. Apparatus and process for tempering steel. 1,751,269; Mar. 18.
De Reamer, Frank C., Bridgeport, and W. R. Young, Fairfield, Conn., assignors to General Electric Company. Electric switch. 1,751,398; Mar. 18.
Det Norske Aktieselskab for Elektrokemisk Industri of Norway. (See Sem, M. O., and Söderberg, assignors.)
Detroit Steel Products Company. (See Barclay, Gustaf I., assignor.)
Deutsch, Hermann, Chicago, Ill. Machine-tool work holder. 1,750,746; Mar. 18.
De Vault, Ralph P., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill. Motion-picture apparatus. Re17,626; Mar. 18.
De Wrangell, Mathieu, Paris, France. Talking machine. 1,751,310; Mar. 18.
Dibble, Claude M. (See Moore, L., and Dibble.)
Dickinson, John D. (See Pierce, E. F., and Dickinson.)
Dickinson, Roy G., Denver, assignor of one-third to C. A. Semrad, Denver, and one-third to H. C. Reagan, Boulder, Colo. Tie clamp for electric insulators. 1,750,880; Mar. 18.
Dienst, Karl, Frankfort-on-the-Main, Germany. Grinding of bread grain. 1,751,032; Mar. 18.
Diesel Filter Co. (See Maunula, O. A., and Rowland, assignors.)
Dieter, Paul W., New York, N. Y. Lock nut. 1,750,925; Mar. 18.
Dieter, Paul W., New York, N. Y. Lock nut. 1,750,926; Mar. 18.
Dilks, James J., jr., West Collingswood, assignor to The New Matix Equipment Co., Audubon, N. J. Air compressor. 1,751,449; Mar. 18.
Dillman, Earnest J., Kenmore, assignor to American Radiator Company, New York, N. Y. Pressure-operated regulator. 1,751,193; Mar. 18.
Ditto Incorporated. (See Hoskins, William, jr., assignor.)
Diez, Conrad J., assignor to American Brass & Fire Equipment Corporation, Baltimore, Md. Fire-hose connecter head. 1,750,927; Mar. 18.
Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Shade holder. 1,751,311; Mar. 18.
Doehler Vending Machines, Inc. (See Morin, Louis H., assignor.)
Domscheit, Frederick R., Brooklyn, N. Y. Window. 1,750,747; Mar. 18.
Dopyera, John, Los Angeles, Calif. Stringed musical instrument. 1,750,881; Mar. 18.
Dorman, William C., Long Beach, Calif. Combination stop and tail light. 1,750,994; Mar. 18.
Dorneth, Julius, Konradshohe, near Tegel, assignor to the firm Typograph G. m. b. H., Berlin, Germany. Matrix-setting and line-casting machine. 1,750,707; Mar. 18.
Dovel, James P., Birmingham, Ala. Apparatus for heating the air blast for furnaces and the like. 1,751,186; Mar. 18.
Dow Chemical Company, The. (See Hoy, John E., assignor.)
Doxey, Chester E. (See Orr, M. M., and Doxey.)
Draper Corporation. (See Brown, Carl D., assignor.)
Dreusike, William, Oakland, assignor to United States Metal Products Co., San Francisco, Calif. Swinging-window construction. 1,750,664; Mar. 18.

Drowns, Irvin, assignor to The Timken Roller Bearing Company, Canton, Ohio. Tool holder. 1,751,078; Mar. 18.
Drumm, Elmer E., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Vessel clamp. 1,751,079; Mar. 18.
Ducart, Guillaume, Paris, France. Gas-operated air-heating device. 1,751,390; Mar. 18.
Dudman, John. (See Molesworth, C. E., Dudman, and Zokelt.)
Du Pont, E. I., de Nemours & Company. (See Ahlum, Charles C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Bergeim, Frank H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Remlein, Frank L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Wrightsman, Philip G., assignor.)
Eaglesfield, Frederick R., assignor to The Kawneer Company, Niles, Mich. Closure. 1,750,631; Mar. 18.
Eaton, John, Schenectady, N. Y., assignor to General Electric Company. Controller. 1,751,400; Mar. 18.
Eckland, Emil O., and W. H. Young, Chicago, Ill. Inking device. 1,750,955; Mar. 18.
Economy Products Corporation. (See Sawyer, David P., assignor.)
Edison, W. L., Manufacturing Corporation, The. (See Edison, William L., assignor.)
Edison, William L., assignor to The W. L. Edison Manufacturing Corporation, Wilmington, Del. Signaling system. 1,750,954; Mar. 18.
Edmunds, Stanley H., Detroit, Mich. Method and apparatus for making articles from a plastic substance. 1,750,748; Mar. 18.
Edwards, Arthur J., deceased, Cambridge, assignor of one-half to G. N. Goddard, Newton, Mass.: P. F. Edwards, administrator. Dieing out rubber heels. 1,750,708; Mar. 18.
Edwards, Lewis E., Huntington Park, Calif. Engine valve. 1,750,095; Mar. 18.
Edwards, Patrick F., administrator. (See Edwards, Arthur J.)
Ehrhart, William, Lancaster, Pa. Baking apparatus. 1,751,312; Mar. 18.
Ehrlinger, Edmund P., Janesville, Wis. Power-driven mitering machine for printers. 1,751,137; Mar. 18.
Eiben, Michael A., Cleveland, Ohio. Rapping machine for dust collectors. 1,751,138; Mar. 18.
Eifel, Joseph, Chicago, Ill. Display apparatus. 1,751,270; Mar. 18.
Electric Cotton Picker Co. (See Watkins, Benjamin F., assignor.)
Ello, Rocco, et al. (See Maehren, George, assignor.)
Elliott, Frederick T., Somerville, Mass. Shock absorber. 1,750,996; Mar. 18.
Eley, Charles N., Glen Ellyn, Ill. Manhole cover. 1,751,194; Mar. 18.
Engelhart, John G., Atlanta, Ga. Heating radiator. 1,751,033; Mar. 18.
Eppler, Andrew, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon shoes. 1,750,709; Mar. 18.
Erb, Lanlous P., assignor of one-half to P. Kriskov, Anaconda, Mont. Metal file. 1,751,034; Mar. 18.
Eschbois, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit interrupter. 1,751,233; Mar. 18.
Essex Rubber Company. (See Oakley, A. T., and Lupke, assignors.)
Evans, Gordon M. (See Hunt, J. H., and Evans.)
Everlasting Valve Company. (See Wilson, Wylie G., assignor.)
Exbelent, Georges and R., Paris, France. Automatic spacing device for plaiting machines. 1,751,401; Mar. 18.
Exbelent, Roger. (See Exbelent, Georges and R.)
Faber, Leon, assignor to L. B. Botfield, trading as Botfield Refractories Company, Philadelphia, Pa. Apparatus for applying refractory cement. 1,751,195; Mar. 18.
Fahlstrom, John G., assignor to Butler Manufacturing Company, Kansas City, Mo. Booth for spray painting. 1,750,774; Mar. 18.
Fain, Henry G., Little Rock, Ark. Dough mixer and breaker. 1,750,710; Mar. 18.
Fairchild, Eddy, Glen Ridge, N. J. Bowl or similar article. Des. 80,722; Mar. 18.
Fairfield Specialties Corporation. (See Hoban, Fairfield W., assignor.)
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air-straining device. 1,750,632; Mar. 18.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric train-wire device. 1,750,633; Mar. 18.
Farnsworth, Frederick C., Bala, Pa. Drying system. 1,750,837; Mar. 18.
Farrington, John F., Flushing, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. Radio transmitting apparatus. 1,751,271; Mar. 18.
Faulhaber, Clarence F., Middlebranch, Nebr. Electric animal poke. 1,751,318; Mar. 18.
Fehr, John R., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,750,882; Mar. 18.
Feinstein, Samuel, New York, N. Y. Power drive for syringes. 1,751,189; Mar. 18.
Feldblet, Albert. (See Aronson, L., and Feldblet.)
Feldmeier, Harvey, Little Falls, N. Y., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Liquid filter. 1,750,997; Mar. 18.
Ferngren, Enoch T., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass-feeding apparatus. 1,750,998; Mar. 18.
Field, Burnham E., Douglaston, N. Y., assignor to Haynes Stellite Company. Alloy and cutting tool made therefrom. 1,750,796; Mar. 18.
Field, Crosby, Yonkers, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Keg-impregnating device, etc. 1,751,140; Mar. 18.
Finn, Matthew M., Sioux City, Iowa. Street indicator. 1,750,999; Mar. 18.
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Constructional material. 1,751,196; Mar. 18.
Fischer, Friedrich B., executor. (See Laube, Clemens O. K.)
Fisk, R. R. (See Cheakas, G. G., and Martin, assignors.)
Flanders, Ralph E., assignor to Jones & Lamson Machine Company, Springfield, Vt. Machine for grinding chasers. 1,750,956; Mar. 18.
Flauder, Alfred J., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Salt or pepper shaker. Des. 80,723; Mar. 18.
Fletcher, Henry O., Bridgeport, Conn. Shock absorber. 1,750,711; Mar. 18.
Flood, Henry R., South Chingford, assignor to C. G. Yokes, London, England. Advertising device. 1,751,197; Mar. 18.
Florence Stove Company. (See Seamon, Percy R., assignor.)
Flynn, James J. (See Hooke, F. G., and Flynn.)
Follansbee Brothers Company. (See Freeland, E. M., and McGough, assignors.)
Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Liquid-heater-control mechanism. 1,750,749; Mar. 18.
Ford, Elizabeth. (See Gray, M. L., and Ford.)
Ford, George W., Brighton, assignor to H. G. Ponting, London, England. Apparatus for producing distorted pictures. 1,750,883; Mar. 18.
Forman, David O., Morgantown, W. Va. Building block. 1,751,272; Mar. 18.
Forsberg, Erik A., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Pulator for milking machines. 1,750,634; Mar. 18.
Forster, Albert O. and P. M., assignors of one-fourth to T. I. Forster and one-fourth to T. L. Kelly, Berkeley, Calif. Trap nest. 1,751,141; Mar. 18.
Forster, Joseph A. (See Kittredge, E. E., Forster, and Johansen.)
Forster, Percy M. (See Forster, Albert O. and P. M.)
Forster, Thomas I., et al. (See Forster, Albert O. and P. M., assignors.)
Foulds, Charles V. (See Orton, E. W., and Foulds.)
Fountaine, Philisa, Dahlen, assignor of one-half to I. Swinland, Lakota, N. Dak. Oil can. 1,751,314; Mar. 18.
Fowler and Union Horse Nail Co., The. (See Lange, Gustav W. and G. M., assignors.)
Fowler, Clarence D., Bar Harbor, Me. Drill attachment. 1,750,957; Mar. 18.
Fowler, Edith M., executrix. (See Fowler, E. J., and Baird.)
Fowler, Edward J., deceased, by E. M. Fowler, executrix, Redwood City, and D. Baird, Berkeley, Calif., assignors to Nichols Copper Company, New York, N. Y. Multiple hearth furnace. 1,751,142; Mar. 18.
Fox, Richard W. H., Palmers Green, England. Cocktail shaker. 1,751,315; Mar. 18.
Franck, John E., Richlands, N. C. Garment hanger. 1,751,198; Mar. 18.
Franklin, George W., Muskogee, Okla. Vehicle. 1,751,316; Mar. 18.
Frederickson, Otto A., Wethersfield, assignor to The Wiremold Company, Hartford, Conn. Electrical cable. 1,751,143; Mar. 18.
Freeland, Edward M., Steubenville, Ohio, and F. McGough, Follansbee, W. Va., assignors to Follansbee Brothers Company, Pittsburgh, Pa. Apparatus for heating. 1,750,884; Mar. 18.
Freundlich, Ralph A., Brooklyn, N. Y. Display figure and making same. 1,751,273; Mar. 18.
Frigidaire Corporation. (See Fehr, John R., assignor.)
Frigidaire Corporation. (See King, Jesse G., assignor.)
Fry, Clark L., assignor of one-half to H. W. Goggins, Wisconsin Rapids, Wis. Internal-combustion engine. 1,751,080; Mar. 18.
Fry, Orlander W., assignor to O. R. Fuller Co., Los Angeles, Calif. Truck construction. 1,750,665; Mar. 18.
Fuhrberg, Herman, and C. T. Johnson, Seattle, Wash. Cleaner. 1,750,888; Mar. 18.
Fuller-Lehigh Company. (See Groman, Russell O., assignor.)
Fuller, O. R., Co. (See Fry, Orlander W., assignor.)
Fulton, Robert R., Wilkinsburg, Pa., assignor to The Koppers Company. Obtaining thiocyanates of the alkaline-earth metals. 1,751,274; Mar. 18.
Funke, Friedrich. (See Wagner, G., Funke, and Heymanns.)

Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. One-apron drier. 1,750,839; Mar. 18.

G. & G. Atlas Systems, Inc. (See Weigele, Edmund, assignor.)

Gabbard, Thomas A. (See Busby, Junius E., assignor.)

Gabriel, Alphonse, Oakland, Calif. Coin-controlled lock. 1,751,144; Mar. 18.

Gall, George W., Ruxton, Md., assignor to Kulair Corporation, Philadelphia, Pa. Evaporator element. 1,751,317; Mar. 18.

Gall, George W., Ruxton, Md., assignor to Kulair Corporation, Norristown, Pa. Thermostat. 1,751,319; Mar. 18.

Gaines, Florence E. (See Tantillo, James, assignor.)

Gallimore, Keith F. (See Kempton, H. E., and Gallimore.)

Galloway, George W., Santa Ana, Calif. Expanding piston. 1,750,928; Mar. 18.

Gammeter, John R., Akron, Ohio, assignor to A. G. Spalding & Bros., New York, N. Y. Packaged playing ball. 1,751,275; Mar. 18.

Gant, Harris P. (See Lewis, A. T., Gant, and Taliaferro.)

Garnett, Cecil S., Derby, England. Composition and manufacture of refractory basic brick and the like. 1,751,234; Mar. 18.

Garno, George E. (See Heald, R. N., Guild, Burns, and Garno.)

Gay, Eugène, Lyon, France. Obtaining photographic images. 1,751,318; Mar. 18.

Gay, Frazier W., Newark, N. J. Cooling means for electrical and other apparatus. 1,750,750; Mar. 18.

Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Antifriction bearing. 1,750,797; Mar. 18.

Gemex Company. (See Roy, Wilfred J., assignor.)

General Chemical Company. (See Benner, R. C., and Thompson, assignors.)

General Chemical Company. (See Landau, Henry B., assignor.)

General Electric Company. (See Anderson, Arvid E., assignor.)

General Electric Company. (See Brown, George R., assignor.)

General Electric Company. (See Cohn, A., and Kummel, assignors.)

General Electric Company. (See De Reamer, F. C., and Young, assignors.)

General Electric Company. (See Eaton, John, assignor.)

General Electric Company. (See Hall, Chester L., assignor.)

General Electric Company. (See Hayman, William C., assignor.)

General Electric Company. (See Hepperlen, John A., assignor.)

General Electric Company. (See Hirst, Franz, assignor.)

General Electric Company. (See Hurwitz, Eugen, assignor.)

General Electric Company. (See Ipsen, Carl L., assignor.)

General Electric Company. (See Jordan, H., and Goldschmidt, assignors.)

General Electric Company. (See Keenan, William, assignor.)

General Electric Company. (See Kjolseth, Ole K., assignor.)

General Electric Company. (See Koning, Willem, assignor.)

General Electric Company. (See Lamb, G., and Kinnard, assignors.)

General Electric Company. (See Lewis, John O., assignor.)

General Electric Company. (See Musgrove, John C., assignor.)

General Electric Company. (See Paul, William E., assignor.)

General Electric Company. (See Phelps, Roscoe G., assignor.)

General Electric Company. (See Rankin, William K., assignor.)

General Electric Company. (See Robinson, Lewis T., assignor.)

General Electric Company. (See Rosenthal, Hans, assignor.)

General Electric Company. (See Sanderson, Clarence H., assignor.)

General Electric Company. (See Schröter, Karl, assignor.)

General Electric Company. (See Sprenger, George W., assignor.)

General Electric Company. (See Stone, Fred L., assignor.)

General Electric Company. (See Waltemath, Adolf, assignor.)

General Electric Company. (See Wildeboer, Marinus, assignor.)

General Rubber Company. (See Hopkinson, Ernest, assignor.)

Genest, Werner, Berlin-Lichterfelde, Germany, assignor to The Korfund Company, Inc., New York, N. Y. Sound-deadening plate and making same. 1,751,320; Mar. 18.

Genesy Electric Lantern Company. (See Patche, Henry B., assignor.)

Georgiou, Paul E., Bingham, Utah. Flushing for water-closets. 1,751,145; Mar. 18.

Gernandt Motor Corporation. (See Leonard, Howard M., assignor.)

Gever, André, Paris, France. Aluminum alloy. 1,750,751; Mar. 18.

Gidley, Columbus M., Corsicana, Tex. Pipe-handling apparatus for derricks. 1,750,798; Mar. 18.

Gillespie, Robert H., assignor to Mid-West Specialty Company, Little Rock, Ark. Liquid-reserve tank. 1,751,456; Mar. 18.

Gilowitz, Benjamin, assignor of one-fourth to S. Thau, New York, N. Y. Heel lift. 1,750,712; Mar. 18.

Glaenzer, Harry, Philadelphia, Pa. Locomotive-smoke-box front. 1,751,321; Mar. 18.

Glezen, Lee L., Millburn, N. J., M. J. Stigers, Baldwin, and E. R. Taylor, New York, N. Y., assignors to American Telephone and Telegraph Company. Toll circuit. 1,750,666; Mar. 18.

Glidden, Alfred A., assignor, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Ornamented article of wearing apparel. 1,750,799; Mar. 18.

Goddard, George N. (See Edwards, Arthur J., assignor.)

Goetz, John, Wauwatosa, and L. J. Radermacher, Milwaukee, assignors to The Kempsmith Manufacturing Co., West Allis, Wis. Milling machine. 1,750,885; Mar. 18.

Goggins, Hugh W. (See Fry, Clark L., assignor.)

Goldman, Maurice A., Milford, N. H., assignor to Tucapau Mills, Tucapau, S. C. Oil filter and filter element. 1,751,000; Mar. 18.

Goldschmidt, Robert. (See Jordan, H., and Goldschmidt.)

Gollos, Anatol, Chicago, Ill. Radio apparatus. 1,751,081; Mar. 18.

Gongora, Thomas, jr., St. Louis, Mo. Radio receiving system. 1,751,235; Mar. 18.

Gontard, Gilberto, Buenos Aires, Argentina. System for the combustion of oil. 1,751,236; Mar. 18.

Gonzales, Belarmino, et al. (See Montano, Antonio, assignor.)

Good, John N., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Variable-load brake. 1,750,635; Mar. 18.

Goshorn, Robert R., assignor to The All-Ways-Hot Mfg. Co., Jasonville, Ind. Magnetic liquid heater. 1,750,958; Mar. 18.

Goss Printing Press Company, The. (See Cox, Paul F. and J. L., assignors.)

Gould, Sydney R., Bakersfield, Calif. Vacuum-cleaner attachment for automobile engines. 1,750,800; Mar. 18.

Granger, Paul H., Los Angeles, Calif. Packing. 1,750,886; Mar. 18.

Grant, James, Ben Avon Heights, Pa. Accounting device. 1,751,082; Mar. 18.

Grant, Joseph N., Louisville, Ky., assignor to The Grant Stores Inc. Self-serving store. 1,751,199; Mar. 18.

Grant Stores Inc., The. (See Grant, Joseph N., assignor.)

Grasmere, Henry, assignor to Krements & Company, Newark, N. J. Clasp for a bracelet. 1,750,667; Mar. 18.

Grauel, Edwin L., assignor to The Graulock Company, Cincinnati, Ohio. Carburetor suction release device. 1,751,322; Mar. 18.

Graulock Company, The. (See Grauel, Edwin L., assignor.)

Gray Company. (See Gray, Russell J., assignor.)

Gray, Mary L., and E. Ford, Waverly, Va. Automobile screen. 1,751,200; Mar. 18.

Gray, Russell J., assignor to Gray Company, Inc., Minneapolis, Minn. Grease gun. 1,751,323; Mar. 18.

Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company. Determining movement and position of moving objects. 1,750,668; Mar. 18.

Green, John L., El Dorado, Ark. Fluid air cleaner. 1,751,324; Mar. 18.

Greenbaum, Leo, Far Rockaway, E. Van Hoofstadt, Oceanside, and C. Gustavson, Brooklyn, N. Y., assignors, by mesne assignments, to Lion Match Company, Inc. Match-making machine. 1,751,146; Mar. 18.

Griffiths, Septimus H., Wheeling, W. Va. Railway-rail joint. 1,750,775; Mar. 18.

Grimes, Lester A., Montclair, assignor to Grimes Sprinkler Company, Inc., Newark, N. J. Dry-pipe valve. 1,751,201; Mar. 18.

Grimes Sprinkler Company. (See Grimes, Lester A., assignor.)

Griswold, Lester E., Colorado Springs, Colo. Gauge for punches. 1,750,029; Mar. 18.

Groman, Russell O., Catasauqua, assignor to Fuller-Lehigh Company, Fullerton, Pa. Pulverizer mill. 1,750,636; Mar. 18.

Grondahl, Lars O., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,750,801; Mar. 18.

Gross, Henry J., Chicago, Ill. Andiron. Des. 80,724; Mar. 18.

Grover, Percy C., Birmingham, Ala. Wheel puller. 1,750,840; Mar. 18.

Guardian Trust Company, The. (See Jackson, William M. S., assignor.)

Guett, Monroe, assignor, by mesne assignments, to The Arrow-Hart & Hegeman Electric Company, Hartford Conn. Switch terminal. 1,751,328; Mar. 18.

Guild, Waldo J. (See Heald, R. N., Guild, Burns, and Garno.)

Gustafsson, Emil G. T., Stockholm, Sweden. Producing metals in electric furnaces. 1,751,083; Mar. 18.

Gustavson, Charles. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)

Guth, Frederick, Seattle, Wash. Cloth-marking device. 1,751,001; Mar. 18.

Hackley, Roy C., Berkeley, Calif. Lining tunnels with concrete and apparatus therefor. 1,751,147; Mar. 18.

Hadaway, William S., jr., New Rochelle, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Apparatus for cracking oils. 1,751,148; Mar. 18.

Hadley Company, The. (See Mealy, Charles A., assignor.)

Haferkorn, Oswald, Poppitz, near Rochlitz, Germany. Switch rail for monorail suspended railways. 1,750,802; Mar. 18.

Hahn, Martin, Boritz, near Riesa-on-the-Elbe, Germany. Producing an explosive. 1,751,326; Mar. 18.

Haire, Robert E., Paris, and G. M. Thomson, Calendonia, assignors to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Finishing wall joints. 1,751,327; Mar. 18.

Hall, Chester L., Fort Wayne, Ind., assignor to General Electric Company. Relay circuits. 1,751,328; Mar. 18.

Hall, Guy H., Evanston, Ill. Rotary tiller attachment for disk plows. 1,750,887; Mar. 18.

Hamerstadt, William D., assignor to Rockwood Manufacturing Company, Indianapolis, Ind. Pulley construction. 1,750,752; Mar. 18.

Hancock, Harry H., deceased, Beach Bluff, Mass.; H. A. Sawyer, administrator. Vise. 1,751,329; Mar. 18.

Harrington, Bertie S., Fort Worth, Tex. Filling-machine governor. 1,751,149; Mar. 18.

Harrington, Ferris T., assignor to Whitman & Barnes, Inc., Detroit, Mich. Twisting noncircular blanks for drills, etc. 1,750,776; Mar. 18.

Harris Calorific Company, The. (See Campbell, Lorn, jr., assignor.)

Harris Calorific Company, The. (See Harris, John, assignor.)

Harris, Isaac, Buffalo, assignor, by mesne assignments, to United Reproducers Corporation, Rochester, N. Y. Grille for sound reproducer. Des. 80,725; Mar. 18.

Harris, John, assignor to The Harris Calorific Company, Cleveland, Ohio. Blowpipe. 1,751,402; Mar. 18.

Harrold, George, Los Angeles, Calif. Adjustable curtain for automobiles. 1,750,888; Mar. 18.

Harter, Evan C., Sturgis, Mich. Seat structure. 1,751,162; Mar. 18.

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Coupler and yoke connection. 1,751,150; Mar. 18.

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,751,151; Mar. 18.

Hauser, Adalbert, New York, N. Y. Guide for locks. 1,751,153; Mar. 18.

Hayden, Arthur C., Brockton, Mass. Stand. 1,750,803; Mar. 18.

Hayes-Custer Stove and Furnace Co. (See Hayes, Frank H., assignor.)

Hayes, Frank H., Morris, assignor to Hayes-Custer Stove and Furnace Co., Bloomington, Ill. Stove. Des. 80,726; Mar. 18.

Hayes, Harvey C., Washington, D. C. Acoustical wave filter. 1,751,035; Mar. 18.

Hayman, William C., Schenectady, N. Y., assignor to General Electric Company. High-tension cable. 1,751,403; Mar. 18.

Haynes Stellite Company. (See Field, Burnham E., assignor.)

Heald Machine Company, The. (See Heald, R. N., Guild, Burns, and Garno, assignors.)

Heald Machine Company, The. (See Kempton, H. E., and Gallimore, assignors.)

Heald, Roger N., W. J. Guild, A. P. Burns, and G. E. Garno, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,751,202; Mar. 18.

Heald, Roger N., W. J. Guild, A. P. Burns, and G. E. Garno, assignors to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,751,203; Mar. 18.

Heftler, Victor R., Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France. Carburetor. 1,750,889; Mar. 18.

Heginbottom, Walter G., assignor to Marvel Carburetor Company, Flint, Mich. Heat-controlling means for charge-forming devices. 1,750,637; Mar. 18.

Hein, Hermann. (See Burmester, E., and Hein.)

Heintz Manufacturing Company. (See D'Ardenne, W. H., Landis, and Christensen, assignors.)

Hellmund, Rudolf E., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic blow-out device. 1,751,205; Mar. 18.

Hemphill Company. (See Lawson, John, assignor.)

Henrikson, Frank W., Mulberry, Kans. Car coupling. 1,751,154; Mar. 18.

Henry, Louis. (See Caute, Louis, assignor.)

Heny, Walter G., and E. G. Schuts, Elwood, Nebr. Tongs. 1,751,155; Mar. 18.

Hepperlen, John A., East Orange, N. J., assignor to General Electric Company. System of motor control. 1,751,404; Mar. 18.

Herman, Albert F., Cleveland, Ohio, assignor to National Carbon Company, Inc. Terminal and making same. 1,751,405; Mar. 18.

Hewitt, William E., New York, N. Y. Railroad tie. 1,751,156; Mar. 18.

Heymanns, Rudolf. (See Waguer, G., Funke, and Heymanns.)

Heywood, Charles F., assignor to Sky Specialties Corporation, Detroit, Mich. Safety valve. 1,751,457; Mar. 18.

Hidawae Products Corporation. (See Rice, H., and Mutch, assignors.)

Hill, Thomas A., Manhattan Beach, assignor to Lion Match Company, Inc., New York, N. Y. Automatic packaging machine. 1,751,157; Mar. 18.

Hirt, Franz, Berlin-Steglitz, Germany, assignor to General Electric Company. Relay system. 1,751,330; Mar. 18.

Hoban, Fairfield W., assignor to Fairfield Specialties Corporation, New York, N. Y. Valve-controlled closure for bottles containing carbonated beverages. 1,751,237; Mar. 18.

Hobart, Edward A., Troy, Ohio. Voltage-regulation winding for electric generators. 1,750,713; Mar. 18.

Hobbs Manufacturing Company. (See Jones, F. A., and Klaucke, assignors.)

Hobbs Manufacturing Company (See Lenston, Charles S., assignor.)

Hocker Corporation, The. (See Hocker, Ivan S., assignor.)

Hocker, Ivan S., assignor to The Hocker Corporation, Philadelphia, Pa. Extraction of oils from vegetable matter. 1,751,331; Mar. 18.

Hoff, Waldemar, Oslo, Norway. Automatic emergency control. 1,751,084; Mar. 18.

Hoffburg, Louis, assignor to Vidrio Products Corporation, Chicago, Ill. Ash stand. Des. 80,764; Mar. 18.

Hoffberg, Louis, assignor to Vidrio Products Corporation, Chicago, Ill. Combined ash tray and stand. Des. 80,765; Mar. 18.

Hoffmann, Otto, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y. Chandelier or similar article. Des. 80,727; Mar. 18.

Holen, Ole J., Bellingham, Wash. Floor-mop handle. 1,750,930; Mar. 18.

Hollenback, George M., Los Angeles, Calif. Dental device. 1,750,804; Mar. 18.

Hollingshead, R. M., Co., The. (See Bagley, Robert M., assignor.)

Holman, Arthur T. (See Holman, John L. and A. T.)

Holman Brothers Limited. (See Holman, John L. and A. T., assignors.)

Holman, John L. and A. T., assignors to Holman Brothers Limited, Camborne, England. Fluid-operated reciprocating machine tool. 1,750,890; Mar. 18.

Holmgreen, Eugene A., San Antonio, Tex. Cotton tramper. 1,751,332; Mar. 18.

Holt, Fred L., assignor of one-half to J. T. Benbow, Winston-Salem, N. C. Changeable sign. 1,750,714; Mar. 18.

Hood Rubber Company. (See Glidden, Alfred A., assignor.)

Hooke, Fred G., and J. J. Flynn, assignors of one-fourth to G. W. Pearson, Lowell, Mass. Shoe. 1,751,035; Mar. 18.

Hoover Company, The. (See Conley, Brooks L., assignor.)

Hopkins, Robert K., New York, N. Y., assignor to The M. W. Kellogg Company. Method of and apparatus for forming heads on tubular articles. 1,751,085; Mar. 18.

Hopkinson, Ernest, assignor to General Rubber Company, New York, N. Y. Drying apparatus. 1,750,753; Mar. 18.

Hopper, Charles, and W. L. Arnold, Manhattan, Kans.; said Hopper assignor to said Arnold. Anchorage means. 1,750,841; Mar. 18.

Horton, Rupert M. (See Waltrip, H. D., and Horton.)

Hoskins, William, jr., assignor to Ditto Incorporated, Chicago, Ill. Hectograph blanket. 1,750,754; Mar. 18.

Howse, Philip M., Nashville, Tenn. Bed-rail fastener. 1,751,037; Mar. 18.

Hoy, John E., assignor to The Dow Chemical Company, Midland, Mich. Casting magnesium and alloys thereof. 1,751,038; Mar. 18.

Hren, Joseph, Kingston, N. Y. Fishing tackle. 1,750,842; Mar. 18.

Huber, Paul J., assignor of one-third to F. W. Peterson and one-third to W. H. Wallraff, Minneapolis, Minn. Auto case clamp. 1,750,669; Mar. 18.

Hueller, Walter, West New York, N. J. Indicator for motor vehicles. 1,751,206; Mar. 18.

Hughes, James R., assignor to The Studebaker Corporation, South Bend, Ind. Radiator. Des. 80,728; Mar. 18.

Hultman, Carl A. W., Djursholm, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Selector switch for automatic telephone systems. 1,751,406; Mar. 18.

Hunt, J. Harold, Detroit, Mich., and G. M. Evans, New York, N. Y., assignors to Budd Wheel Company, Philadelphia, Pa. Vehicle wheel. 1,751,086; Mar. 18.

Hunter, George, Pompton Lakes, N. J. Jacquard mechanism. 1,750,670; Mar. 18.

Huret, Georges, assignor to Societe Anonyme Jean Patou, Paris, France. Bottle. Des. 80,729; Mar. 18.

Hurwitz, Eugen, Berlin, Germany, assignor to General Electric Company. Electric lamp for beacon lights. 1,751,407; Mar. 18.

Hutchins, Frank E., et al. (See Rosentreter, Albert J., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, Gustav, assignor.)

India Rubber Gutta Percha & Telegraph Works Company Limited. (See Perry, William J., assignor.)

Ingersoll-Rand Company. (See Briggs, Arthur J., assignor.)
Ingram, William S., Philadelphia, Pa. Electrical heating means for aeroplane wings to prevent accumulation of ice and snow. 1,750,777; Mar. 18.
International Coal Carbonisation Company. (See Cantieny, Georg, assignor.)
International Footwear Co. Inc. (See Bernfeld, Samuel, assignor.)
International Motor Company. (See Jansson, Axel, assignor.)
International Patents Development Company. (See Jefferies, Frederick L., assignor.)
International Patents Development Company. (See Newkirk, William B., assignor.)
Ipsen, Carl L., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,751,408; Mar. 18.
Ittig, George P., assignor to Blackstone Silver Company, Inc., Bridgeport, Conn. Spoon or similar article. Des. 80,762; Mar. 18.
Iwan, Paul, Chicago, Ill. Knitted cap. Des. 80,730; Mar. 18.
Jackson, Corwill, Chicago, Ill. Agitator for concrete molds. 1,751,087; Mar. 18.
Jackson, Samuel J., Sydney, New South Wales, Australia. Chamber or passageway for use in the reproduction of sound. 1,751,409; Mar. 18.
Jackson, William McL. S., Cleveland, Ohio, assignor to The Guardian Trust Company. Piston. 1,750,638; Mar. 18.
Jacobs, Henry. (See Cornelius, W. F., and Jacobs.)
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam-power system. 1,751,238; Mar. 18.
Jacoby, Edward L., Gaylord, Mich. Convertible seat for automotive vehicles. 1,751,088; Mar. 18.
James Manufacturing Company. (See Markey, George T., assignor.)
Janda, Anna J., assignor to J. J. Ryan, Chicago, Ill. Marcel waver. Re17,622; Mar. 18.
Janssen, Louis C., and W. A., Lagrange, Tex. Spraying machine. 1,751,039; Mar. 18.
Janssen, Wilhelm A. (See Janssen, Louis C. and W. A.)
Jansson, Axel, Hillside, N. J., assignor to International Motor Company, New York, N. Y. Brake mechanism. 1,750,755; Mar. 18.
Jefferies, Frederick L., La Grange, Ill., assignor to International Patents Development Company, Wilmington, Del. Manufacture of starch. 1,750,756; Mar. 18.
Jeffers, Clarence E., assignor to Martin-Parry Corporation, York, Pa. Window regulator. 1,750,715; Mar. 18.
Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
Jess, Henry, Sabula, Iowa. Attachment for harrows. 1,751,158; Mar. 18.
Johansen, Rasmus D. (See Kittredge, E. E., Forster, and Johansen.)
Johnson, Conrad T. (See Fuhrberg, H., and Johnson.)
Johnson, Frederick H., Detroit, Mich. Electric welding machine. 1,750,757; Mar. 18.
Johnson, Gustav, West Roxbury, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Separable fastener. 1,751,239; Mar. 18.
Johnson, Herbert B., Flushing, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone trunk circuit. 1,751,207; Mar. 18.
Johnson, Jesse H., Denver, Colo. Photographic camera. 1,750,758; Mar. 18.
Jones, Edwin, East Cleveland, Ohio. Uncoupling device for railway cars. 1,751,040; Mar. 18.
Jones, Frederick A., and G. W. Klaucke, assignors to Hobbs Manufacturing Company, Worcester, Mass. Box-form attachment for covering machines. 1,750,716; Mar. 18.
Jones, Frederick C., Camden, N. J., assignor to Victor Talking Machine Company. Sheet-metal horn elbow. 1,751,002; Mar. 18.
Jones & Lamson Machine Company. (See Flanders, Ralph E., assignor.)
Jones, Lee B., Kansas City, Mo. Industrial truck and the like. 1,750,639; Mar. 18.
Jopson, William G., assignor to C. A. Reed Company, Williamsport, Pa. Decorating material. 1,750,844; Mar. 18.
Jordan, Hans, and R. Goldschmidt, Berlin-Karlshorst, Germany, assignors to General Electric Company. Interquad capacity balancing of telephone cable circuits. 1,751,323; Mar. 18.
Jorgensen, Hans F., deceased, Brooklyn, N. Y., N. F. Jorgensen, executor. Establishing communication. 1,751,159; Mar. 18.
Jorgensen, Norman F., executor. (See Jorgensen, Hans F.)
Judd, H. L., Company. (See Blake, William A., assignor.)
Jungemann, Erich F., Wolsey, S. Dak. Plier case. 1,750,891; Mar. 18.
Kadel, Byers W. (See Wine, W. E., and Kadel.)
Kägi, Emil, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Inlet-valve gear for internal-combustion engines. 1,751,240; Mar. 18.
Kaiser, Samuel, Coney Island, N. Y. Spool holder. 1,751,003; Mar. 18.
Kallus, Joseph L., Brooklyn, N. Y. Doll. Des. 80,766; Mar. 18.
Kallus, Joseph L., Brooklyn, N. Y. Toy dog. Des. 80,767; Mar. 18.
Kappes, Andrew C., assignor to Wm. Wrigley Jr., Company, Chicago, Ill. Confection package. 1,751,208; Mar. 18.
Karibo, Edmond C., E. S. Pearce, and R. W. Retterer, Indianapolis, Ind., assignors to Transportation Devices Corporation. Power mechanism for controlling the reverse gears of locomotives. 1,751,276; Mar. 18.
Karibo, Edmond C., E. S. Pearce, and R. W. Retterer, assignors to Transportation Devices Corporation, Indianapolis, Ind. Power-reverse-gear mechanism. 1,751,277; Mar. 18.
Katsounakis, Antonios G., Steubenville, Ohio. Garter or similar article. Des. 80,731; Mar. 18.
Kawneer Company, The. (See Englesfield, Frederick R., assignor.)
Kay, David, Blackford, Scotland. Controlling the angle of incidence of aero revolving blades or wings and propellers. 1,750,778; Mar. 18.
Keeler, Fanny, New York, N. Y. Doll figure. Des. 80,732; Mar. 18.
Keeler, Fanny, New York, N. Y. Doll figure. Des. 80,733; Mar. 18.
Keenan, William, Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,751,334; Mar. 18.
Kéfél, Michel, Paris, France. Stabilizing device for ships. 1,751,278; Mar. 18.
Keller, George W., Portmouth, Ohio. Driving and engine-truck box lubricator. 1,751,160; Mar. 18.
Kellner, Gustav A. H., deceased, by C. F. Lomb, executor, and W. B. Rayton, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmometer. 1,750,931; Mar. 18.
Kellogg, M. W., Company, The. (See Hopkins, Robert K., assignor.)
Kelly, George A. (See Caswell, T. W., and Kelly.)
Kelly, Tony L., et al. (See Forster, Albert O. and P. M., assignors.)
Kelsey-Hayes Wheel Corporation. (See White, John W., assignor.)
Kemnal, James, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Power-generating systems and operating the same. 1,751,004; Mar. 18.
Kempsmith Manufacturing Co., The. (See Goetz, J., and Radermacher, assignors.)
Kempton, Herbert E., Chicago, Ill., and K. F. Gallimore, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Switch. 1,751,204; Mar. 18.
Kennedy, Clement E., Swampscott, and E. E. Sanborn, Lynn, Mass. Bottle-opening device. 1,750,759; Mar. 18.
Kennedy, Joseph E., New York, N. Y. Feeding device for materials. 1,761,335; Mar. 18.
Kennedy, Walter C., Llanerch, Upper Darby, Pa., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Controller for electric motors. 1,750,892; Mar. 18.
Kepple, John C., Indianapolis, Ind. Supporting structure for concrete construction. 1,750,760; Mar. 18.
Kerouanton, Pierre, Marieval, Saskatchewan, Canada. Automatic needle-valve closer. 1,751,041; Mar. 18.
Kimsey, Lucien C., Oklahoma City, Okla. Gravity-actuated circuit breaker. 1,751,005; Mar. 18.
Kincannon, Victoria A., New York, N. Y. Electric stove and attachment. 1,751,241; Mar. 18.
King, Jesse G., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Liquid cooler. 1,750,893; Mar. 18.
Kinnard, Isaac F. (See Lamb, G., and Kinnard.)
Kinney, Justus R., Jamaica Plain, assignor to Kinney Manufacturing Company, Boston, Mass. Pump for mixing oil and air. 1,751,006; Mar. 18.
Kinney Manufacturing Company. (See Kinney, Justus R., assignor.)
Kirchner, William, and F. J. Sheldon, Sparta, Wis. Turning and heading machine. 1,750,932; Mar. 18.
Kirk, Walter I., Chicago, Ill. Stringed musical instrument. 1,750,843; Mar. 18.
Kitson Machine Shop. (See Curley, Robert S., assignor.)
Kittredge, Ernest E., Alameda, J. A. Forster, Oakland, and R. D. Johansen, Alameda, Calif. Electrical water heater. 1,750,640; Mar. 18.
Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Railway truck. 1,751,336; Mar. 18.
Klaucke, George W. (See Jones, F. A., and Klaucke.)
Klingsick, Oswald W., assignor to Day-Brite Reflector Company, St. Louis, Mo. Lighting fixture for show cases. 1,751,042; Mar. 18.
Klöhn, Ernst, Berlin-Wilmersdorf, assignor to the firm Zahn & Co. G. m. b. H., Berlin, Germany. Calcining furnace and operating the same. 1,751,161; Mar. 18.
Knirnschild, Laverne C. (See Schwalm, Rudolph H., assignor.)
Knowland, Richard G., Wollaston, and G. T. Loveridge, Boston, Mass., assignors to Nashua Manufacturing Company, Nashua, N. H. Producing a wool finish on cotton goods. 1,751,089; Mar. 18.
Kobe, Inc. (See Coberly, Clarence J., assignor.)
Koch, Frederick W., Oakland, Calif. Alloy block for soldering. 1,750,671; Mar. 18.

Koehring Company. (See Daniel, John, assignor.)
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Koehring Company. (See Webb, George E., assignor.)
Koning, Willem, Eindhoven, Holland, assignor to General Electric Company. Anchor-inserting machine. 1,751,410; Mar. 18.
Koons, Frank, sr., Detroit, Mich. Door-latch mechanism. 1,750,938; Mar. 18.
Koppers Company, The. (See Fulton, Robert R., assignor.)
Korfund Company, The. (See Genest, Werner, assignor.)
Kramer, Andrew A., Kansas City, Mo. Sheet-metal sign. 1,750,894; Mar. 18.
Krantz, Hubert K., Rockville Center, N. Y., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. 1,751,242; Mar. 18.
Kraus, Rudolph, Whitestone, N. Y. Gas detector. 1,751,279; Mar. 18.
Krause, Erich, South Jamaica, N. Y. Safety attachment for gas valves. 1,751,044; Mar. 18.
Kreissig, Ernest, Uerdingen-on-the-Rhine, Germany. Wheel and axle. 1,751,007; Mar. 18.
Krementz & Company. (See Grasmere, Henry, assignor.)
Krisberg, Abraham, Milwaukee, Wis. Clinker shovel. 1,751,337; Mar. 18.
Krischer, Max, assignor to Krischer's Manufacturing Company, Brooklyn, N. Y. Receptacle holder and guard. 1,750,672; Mar. 18.
Krischer's Manufacturing Company. (See Krischer, Max, assignor.)
Kriskov, Paul. (See Erb, Lanious P., assignor.)
Kruse, Otto V., Narberth, Pa., assignor, by mesne assignments, to F. P. Morris Corporation. Fluid-control system. 1,750,895; Mar. 18.
Kucher, Andrew A., Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company. Refrigerator. 1,751,209; Mar. 18.
Kulnir Corporation. (See Gall, George W., assignor.)
Kummel, Adolf. (See Cohn, A., and Kummel.)
La Brie, Ludger E., assignor to Motor Industries, Inc., Chicago, Ill. Rim for vehicle wheels. 1,750,673; Mar. 18.
Lach, Frank H., Chicago, Ill. Body-drying implement. 1,750,845; Mar. 18.
La France, Richard, assignor to Owens-Illinois Glass Company, Toledo, Ohio. Cooling furnace walls. 1,751,008; Mar. 18.
Lake, Simon, Milford, Conn. Hydroplane vessel. 1,750,959; Mar. 18.
Lamb, George, Pittsburgh, Pa., and I. F. Kinnard, Lynnfield, Mass., assignors to General Electric Company. Commutator-type direct-current watthour meter. 1,751,411; Mar. 18.
Lambert, Charles F., Grosse Pointe, assignor, by mesne assignments, to Clayton & Lambert Manufacturing Company, Detroit, Mich. Torch structure. 1,750,846; Mar. 18.
Lamoureux, Nelson, Whittier, assignor of one-half to M. W. Lukes, Compton, Calif. Spear. 1,751,090; Mar. 18.
Landau, Henry B., Sandusky, Ohio, assignor to General Chemical Company, New York, N. Y. Bag machine. 1,751,091; Mar. 18.
Landis, J. Olin. (See D'Ardenne, W. H., Landis, and Christensen.)
Lange, Gustav M. (See Lange, Gustav W. and G. M.)
Lange, Gustav W. and G. M., Buffalo, assignors to The Fowler and Union Horse Nail Co., Inc., Tonawanda Township, N. Y. Machine for making horseshoe nails. 1,751,338; Mar. 18.
Langenbeck, Bernhard, Leipzig, and H. Sell, Berlin-Siemensstadt, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Electrical instrument for diagnosing and assisting defective hearing. 1,750,960; Mar. 18.
Langer, Max. (See Lubberger, F., and Langer.)
Lapin, Brian A., assignor to Proctor & Schwartz Electric Company, Philadelphia, Pa. Toaster. Des. 80,734; Mar. 18.
Larson, Axel F., assignor to Western Electric Piano Company. Talking machine. 1,751,162; Mar. 18.
Larson, Charles E. (See Nelson, E. A., and Larson.)
Lasar, Frank J., San Francisco, Calif., assignor to Champion Washer Company, Ltd. Washing machine. 1,750,961; Mar. 18.
Latshaw, Elmer. (See Adams, W. S., and Latshaw.)
Laube, Clemens, O. K., deceased; F. B. Fischer, executor, Dresden, Germany. Box-making machine. 1,750,717; Mar. 18.
Laucks, I. F., Inc. (See Laucks, I. F., and Davidson, assignors.)
Laucks, Irving F., and G. Davidson, assignors to I. F. Laucks, Inc., Seattle, Wash. Construction unit of wood piles bound by vegetable protein adhesives. 1,751,339; Mar. 18.
Lawson, John, assignor to Hemphill Company, Central Falls, R. I. Machine for making fashioned hosiery. 1,751,450; Mar. 18.
Layton, Samuel D., Galion, Ohio. Producing steel abrasive material. 1,751,340; Mar. 18.
Lazerson, Abraham, assignor to Solar Illuminating Company, Chicago, Ill. Wall bracket for lighting fixtures. Des. 80,735; Mar. 18.
Lazich, Branko. (See Ashworth, H. E., and Lazich.)
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Door for automobile bodies. Re17,623; Mar. 18.
Lee, Claude E., Adams County, Colo. Vine-crop shocker. 1,751,243; Mar. 18.
Lee, Ulysses G., Chicago, Ill. Water-closet. 1,750,779; Mar. 18.
Lees-Bradner Company, The. (See Schurr, Charles H., assignor.)
Lehman, Arthur J., Cannelton, Ind. Swing or similar article. Des. 80,736; Mar. 18.
Lehman, Arthur J., Cannelton, Ind. Chair. Des. 80,737; Mar. 18.
Leisse, Matthias, Duisburg-Meiderich, Germany. Container. 1,751,341; Mar. 18.
Leitzenberger, Louis, Irvington, N. J. Clothes drier. 1,751,280; Mar. 18.
Le Mere, Frank J. (See Sardeson, R., and La Mere.)
Lenston, Charles S., assignor to Hobbs Manufacturing Company, Worcester, Mass. Scoring wheel. 1,750,718; Mar. 18.
Leonard, Howard M., South Bend, Ind., assignor to Gemeadt Motor Corporation, Chicago, Ill. Engine. 1,751,281; Mar. 18.
Leonard, John P., Hawley, Pa. Thread protector. 1,751,210; Mar. 18.
Leone, Gioacchino, Pittsburgh, Pa. Belt dressing. 1,751,342; Mar. 18.
Leoneri, Ovidio, Narni, Italy. Producing anhydrous alcohol. 1,751,211; Mar. 18.
Leopold, Frederick B. (See De Markus, L., and Leopold.)
Levis, John H., jr., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Manual telephone system. 1,750,806; Mar. 18.
Lewis, Alexander T., Merion, H. P. Gant, Philadelphia, and R. R. Taliaferro, Beechwood Park, assignors to York Heating and Ventilating Corporation, Philadelphia, Pa. Air-conditioning apparatus. 1,751,043; Mar. 18.
Lewis, John O., Wesleyville, Pa., assignor to General Electric Company. Lubricating device. 1,751,412; Mar. 18.
Leyhausen, Wilhelm, Nuremberg, Germany. Automatic circuit breaker. 1,750,895; Mar. 18.
Libbey-Owens Glass Company. (See Mambourg, Leopold, assignor.)
Libbey-Owens Glass Company. (See Nobbe, William E., assignor.)
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Subgrade planer and concrete-distributing machine. 1,750,896; Mar. 18.
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Boom-angle indicator for cranes. 1,750,962; Mar. 18.
Lichtman, Louis, assignor to Chromeplate, Inc., New York, N. Y. Hanger for articles to be plated. 1,750,807; Mar. 18.
Lichtman, Louis, assignor to Chromeplate, Inc., New York, N. Y. Rack for supporting articles to be electroplated. 1,750,808; Mar. 18.
Lieser, George J., and P. C. Murphy, Chicago, Ill. Baster for meats. 1,750,809; Mar. 18.
Lifschutz, Henry, Brooklyn, N. Y. Shoe and making same. 1,751,282; Mar. 18.
Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizing machine. 1,751,009; Mar. 18.
Limbert, Charles P., Company. (See Van Raalte, Dirk B. K., assignor.)
Lindauer, Jules, Paris, France. Breast supporter, corselet, corset, and the like. 1,751,212; Mar. 18.
Linde Air Products Co., The. (See Zenner, George H., assignor.)
Linde, Andrew H., Philadelphia, Pa. Cage for ball bearings. 1,750,641; Mar. 18.
Lindeman, Jesse G., Yakima, Wash. Wheel mounting for land vehicles. 1,751,010; Mar. 18.
Lindsay, Frederick K., La Grange, Ill., assignor to Arizona Minerals Corporation, Yuma, Ariz. Treating greensand or glauconite for the purpose of rendering it an efficient water-softening agent. 1,750,847; Mar. 18.
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Lion Match Company. (See Greenbaum, L., Van Hoofstadt, and Gustavson, assignors.)
Lion Match Company. (See Hill, Thomas A., assignor.)
Little, Clarence B., assignor to The Brownell Company, Dayton, Ohio. Steam boiler. 1,751,092; Mar. 18.
Little, Donald G. (See Davis, R. L., and Little.)
Littleford Brothers. (See Striedmann, Herman H., assignor.)
Lloyd, Stanley J. N., Guildford, England. Drying of photographic prints. 1,750,674; Mar. 18.
Loeb, Leo. (See Vallebuona, Julius C., assignor.)
Loessin, Arthur, Berlin-Charlottenburg, Germany. Manufacturing ceramic materials, building elements, and the like, from mud. 1,751,163; Mar. 18.
Lofy, George C., Springfield, assignor of one-fourth to W. F. Canavan and one-fourth to C. J. Maier, Decatur, Ill. Adjustable weather shield and antirattling device. 1,750,897; Mar. 18.
Lomax, Clarence E., Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,750,934; Mar. 18.

Lomb, Carl F., executor. (See Kellner, G. A. H., and Rayton.)
Longenecker, Charles I., assignor to Chain Belt Company, Milwaukee, Wis. Multiple-cylinder reciprocating water pump. 1,751,413; Mar. 18.
Loosley, Henry R., East St. Louis, Ill. Beverage dispensing and cooling box. 1,750,675; Mar. 18.
Love, Robert, Estate, Limited. (See Corbett, John A., assignor.)
Loveridge, Gilbert T. (See Knowland, R. G., and Loveridge.)
Lowe, Asa E., Seattle, Wash. Pulverized-fertilizer nozzle spray. 1,751,283; Mar. 18.
Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)
Lubberger, Fritz, Berlin-Schmargendorf, and M. Langer, Hermsdorf, near Berlin, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Automatic telephone system. 1,750,848; Mar. 18.
Luce, Richard W. (See Boots, E. R., Luce, and Oestnaes.)
Lukes, Michael W. (See Lamoureux, Nelson, assignor.)
Lupke, Paul, jr. (See Oakley, A. T., and Lupke.)
Lyman, Charles E., jr., Middlefield, Conn. Gun sight. 1,750,676; Mar. 18.
Lyon Metal Products, Incorporated. (See Vance, Walter N., assignor.)
Mack, John R., Caldwell, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y. Method and apparatus for applying plastic material to surfaces. 1,751,343; Mar. 18.
MacMeekin, John A. (See Patterson, Isaiah D., assignor.)
Maehren, George, Pacific Grove, assignor of one-third to R. Ello and one-third to F. H. Davis, Monterey, Calif. Electromagnetic sound reproducer. 1,751,284; Mar. 18.
Magnuson, Roy M., assignor to Sterling Pump Works, Stockton, Calif. Automatic oiling system for deep-well turbine pumps. 1,750,898; Mar. 18.
Maier, Charles J., et al. (See Lofy, George C., assignor.)
Majestic Manufacturing Company. (See Morley, Guilford S., assignor.)
Malleable Iron Fittings Company. (See Williams, Rolland G., assignor.)
Mailing, Arthur, assignor to The Schwenger-Klein Company, Cleveland, Ohio. Refrigerator counter. 1,751,285; Mar. 18.
Maluk, Assad M., assignor to Standard Lock and Measure Corporation, New York, N. Y. Combined closure and gauge rod for oil tanks. 1,750,849; Mar. 18.
Mambourg, Leopold, Lancaster, assignor to Libbey-Owens Glass Company, Toledo, Ohio. Glass tank. 1,751,045; Mar. 18.
Mantle, Gregory D., and T. W. Munford, Pittsburgh, Pa., assignors, by mesne assignments, to Surface Combustion Company, Toledo, Ohio. Recuperator. 1,750,850; Mar. 18.
Mantsion, Frank X., Philadelphia (Holmesburg), Pa. Watch stand. 1,751,286; Mar. 18.
Marcum, Arthur L., Oakland, Calif., assignor to E. Winship, Macon, Ga. Drive axle. 1,750,899; Mar. 18.
Marienthal, Charles, Detroit, Mich., assignor to Columbus Handle & Tool Corporation, Columbus, Ind. Handle grip. 1,751,414; Mar. 18.
Marion, Charles E. (See Brahy, Charles, assignor.)
Markey, George T., assignor to James Manufacturing Company, Fort Atkinson, Wis. Ventilating and humidifying system. 1,751,093; Mar. 18.
Martin, Claud C., assignor of one-half to T. W. Mitchell, Hillsboro, Tex. Compressed-air pump. 1,750,719; Mar. 18.
Martin-Colvin Co., The. (See Martin, Otto V., assignor.)
Martin, Horace G., jr., New York, N. Y. Electric lamp. 1,751,011; Mar. 18.
Martin, John H. (See Cheakas, G. G., and Martin.)
Martin, Otto V., Sand Spring, Okla., assignor to The Martin-Colvin Co. Inhibiting corrosive effect of brines toward iron and steel. 1,750,761; Mar. 18.
Martin-Parry Corporation. (See Jeffers, Clarence E., assignor.)
Martin, Ross, assignor to Northern Indiana Brass Company, Elkhart, Ind. Ball cock. 1,751,046; Mar. 18.
Martinson Brothers & Osburn, Inc., et al. (See Sardeson, R., and La Mere, assignors.)
Marvel Carburetor Company. (See Heginbottom, Walter G., assignor.)
Marx, Louis, New York, N. Y. Combined doll's carriage and sound-producing means. 1,751,047; Mar. 18.
Marx, Robert D., Brooklyn, N. Y. Truck. 1,750,677; Mar. 18.
Mason, Lora, Jacksonville, Ill. Drip pan. 1,751,344; Mar. 18.
Mathis Yacht Building Company. (See Trumpy, John, assignor.)
Matsui, Tashiro, Tacoma, Wash. Sprinkler. 1,751,345; Mar. 18.
Matteson, George F., Rockyhill, assignor to The F. B. Shuster Company, New Haven, Conn. Wire-straightening machine. 1,751,094; Mar. 18.
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Electrically-operated switch. 1,751,164; Mar. 18.
Matti, Jean, Pully, assignor to Augmentine Holding S. A., Lausanne, Roquebrune, Switzerland. Manufacture of bread. 1,750,720; Mar. 18.
Maunula, Otto A., and W. R. Rowland, assignors to Diesel Filter Co., Astoria, Oreg. Oil filter. 1,750,935; Mar. 18.
Maurel, Henry F., Providence, R. I., assignor to Maurel Investment Corporation, Oven. 1,750,721; Mar. 18.
Maurel Investment Corporation. (See Maurel, Henry F., assignor.)
Mazak, Andrew, Prince George, Va. Fertilizer distributor. 1,751,346; Mar. 18.
McCaffrey, Thomas J., Seattle, Wash. Cleaning implement. 1,751,415; Mar. 18.
McCann, George M., New Castle, Del. Firing mechanism. 1,750,722; Mar. 18.
McCulloch, Leon, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating coating on aluminum or aluminum alloys. 1,751,213; Mar. 18.
McDonald, Leslie R., Montreal, Quebec, Canada. Display apparatus. 1,750,642; Mar. 18.
McElrath, William W., Roanoke, Va. Apparatus for chemical treatment of fibrous material. 1,751,165; Mar. 18.
McGough, Frank. (See Freeland, E. M., and McGough.)
McHenry, Fred M., and T. S. Wilkes, Corvallis, Oreg.; said Wilkes assignor to said McHenry. Sanitary toilet. 1,751,012; Mar. 18.
McKenna Brass and Manufacturing Company. (See De Markus, L., and Leopold, assignors.)
McKernan, Edward J., Topeka, Kans. Brass-truing machine. 1,751,214; Mar. 18.
McMullen, John, Buffalo, N. Y. Cotter-pin spreader. 1,751,013; Mar. 18.
McNulty, Joseph, Philadelphia, Pa. Valve-actuating mechanism. 1,751,244; Mar. 18.
McShane, Phelan, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Manipulator pusher head. 1,751,245; Mar. 18.
Mead Pulp & Paper Company, The. (See Traquair, John, assignor.)
Mealy, Charles A., Nayatt Point, assignor to The Hadley Company, Providence, R. I. Fastener for wrist-watch bracelet. 1,750,780; Mar. 18.
Meier, Earl C., assignor to The Production Equipment Company, Wichita, Kans. Sucker-rod guide. 1,750,851; Mar. 18.
Meng, Fritz, Bern, Switzerland. Supports of articles such as furniture and the like. 1,750,678; Mar. 18.
Merrow Brothers, Inc. (See Segrin, Oscar E., assignor.)
Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Percussion fuse. 1,750,723; Mar. 18.
Methlin, Nicolas E., assignor to Schneider & Cie., Paris, France. Combined automatic breech closing and opening and loading mechanism for automatic guns. 1,750,724; Mar. 18.
Mettler, Lee B. (See Buck, E. S., and Mettler.)
Midland Company, The. (See Nourse, Clair P., assignor.)
Mid-West Specialty Company. (See Gillespie, Robert H., assignor.)
Miessner, William O., Milwaukee, Wis. Violin practice finger board. 1,751,048; Mar. 18.
Milhander, Jacob, Los Angeles, Calif. Cushioning device for doors and windows. 1,750,781; Mar. 18.
Miller, Carlton E., San Francisco, Calif. Treating amphibole of the asbestos variety. 1,750,725; Mar. 18.
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller, Frederick C., assignor of one-half to W. H. Warren, Detroit, Mich. Carved veneer for artificial teeth. 1,750,810; Mar. 18.
Miller Rubber Company, The. (See Smith, Albert G., assignor.)
Miller, Theodore J., El Campo, Tex. Oil-well delivery apparatus. 1,751,347; Mar. 18.
Miller, William J., Swissvale, Pa. Jigger for use in the manufacture of articles from plastic materials. 1,750,762; Mar. 18.
Miller, William J., Swissvale, Pa. Automatic means for turning and finishing ware in the manufacture of pottery. 1,751,049; Mar. 18.
Mills Novelty Company. (See Radtke, Bruno, assignor.)
Miner, W. H., Inc. (See Geiger, William A., assignor.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Minton, John P., White Plains, and A. S. Ringel, Brooklyn, N. Y., assignors to Radio Corporation of America. Electroacoustic device. 1,750,900; Mar. 18.
Mitchell, Harold U., Medford, Oreg. Gear. 1,750,679; Mar. 18.
Mitchell, John E., St. Louis, Mo. Air-line hull and trash extractor. 1,750,852; Mar. 18.
Mitchell, John J., Petersburg, Va. Tubular derrick. 1,751,348; Mar. 18.
Mitchell, Thos. W. (See Martin, Claud C., assignor.)
Mobley, Charles W., Barnesville, Ga. Attachment for barbers' chairs. 1,751,014; Mar. 18.
Molesworth, Clyde E., J. Dudman, and C. G. Zokelt, Seattle, Wash. Apparatus for refrigeration. 1,750,763; Mar. 18.
Monowatt Electric Corporation, The. (See Clemence, Elliott, assignor.)
Montano, Antonio, assignor of one-half to B. Gonzales, La Jara, and one-sixth to E. R. Romero, Antonito, Colo. Ditching machine. 1,750,680; Mar. 18.
Moore, Louis P., assignor to The Columbia Axle Company, Cleveland, Ohio. Brake mechanism for motor vehicles. 1,750,936; Mar. 18.
Moore Brothers Company. (See Moore, L., and Dibble, assignors.)

Moore, Lewis, and C. M. Dibble, assignors to Moore Brothers Company, Joliet, Ill. Reversible stove and fuel connection. 1,751,095; Mar. 18.
Mora, John, Plains, Pa. Blasting device. 1,751,015; Mar. 18.
Morgan, Clifton O., Youngstown, Ohio. Mop. 1,751,349; Mar. 18.
Morgan, Mona, New York, N. Y. Shampoo shield. 1,750,937; Mar. 18.
Morimura Bros., Inc. (See Tomita, Urassburo, assignor.)
Morin, Louis H., assignor, by mesne assignments, to Doehler Vending Machines, Inc., New York, N. Y. Coin-controlled mechanism. 1,751,246; Mar. 18.
Morley, Guilford S., University City, assignor to Majestic Manufacturing Company, St. Louis, Mo. Construction of stoves. 1,750,853; Mar. 18.
Morris, Charles E., Leavenworth, Kans. Coasting apparatus. 1,751,096; Mar. 18.
Morris, I. P. Corporation. (See Kruse, Otto V., assignor.)
Morse, Clark T., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Blower. 1,750,681; Mar. 18.
Motor Industries, Inc. (See LaBrie, Ludger E., assignor.)
Moyer, Fred W., and F. J. Reninger, assignors to The Aldrich Pump Company, Allentown, Pa. Pump plunger. 1,751,350; Mar. 18.
Mueller, Emil C., jr., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Desiguation device. 1,751,247; Mar. 18.
Müller, Paul, Solingen, Germany. Guard for safety-razor blades. 1,751,215; Mar. 18.
Mulligan, William J., Parkersburg, W. Va. Circuit closer. 1,750,811; Mar. 18.
Munford, Theodore W. (See Mantle, G. D., and Munford.)
Murphy, Patrick C. (See Lieser, G. J., and Murphy.)
Murray Company, The. (See Behle, Joseph, assignor.)
Murray, Thomas E. (See Murray, T. E., jr., and Bennett, assignors.)
Murray, Thomas E., jr., and I. T. Bennett; said Bennett assignor to T. E. Murray, Brooklyn, N. Y. Welding copper and the like. 1,750,643; Mar. 18.
Musgrove, John C., Lanesboro, Mass., assignor to General Electric Company. Electric heating unit. 1,751,416; Mar. 18.
Mutch, George A. (See Rice, H., and Mutch.)
Nagle, Charles J., Herkimer, N. Y. Liquid agitation cooler. 1,750,726; Mar. 18.
Napier Company, The. (See Rettenmeyer, Frederick W., assignor.)
Nashua Manufacturing Company. (See Knowland, R. G., and Loveridge, assignors.)
National Aniline & Chemical Co. (See Field, Crosby, assignor.)
National Carbon Company. (See Herman, Albert F., assignor.)
National Carbon Company. (See Voorhees, Lee G., assignor.)
National Formetal Company, The. (See Raus, John, assignor.)
National Supply Company, The. (See Spalding, John D., assignor.)
National Supply Company, The. (See Wright, Clyde S., assignor.)
Naugatuck Chemical Company, The. (See Teague, Merwyn C., assignor.)
Naylor, Joe O. (See Brittingham, Vertner D., assignor.)
Neft, Isidore E., Los Angeles, Calif. Phonograph record. 1,751,166; Mar. 18.
Neighbour, Leonard B., assignor to Deere & Company, Moline, Ill. Portable grain elevator. 1,750,855; Mar. 18.
Nell, Gustave M. (See Bayliff, F., and Nell.)
Nell, Gustave M., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Mount for percussive drills. 1,751,287; Mar. 18.
Nelson, Earl A., Minneapolis, and C. E. Larson, St. Louis Park, Minn. Dental investment mixer. 1,751,097; Mar. 18.
Nelson, Emil A., Detroit, Mich. Brake-drum construction. 1,750,682; Mar. 18.
Nelson, Frederick L., Alta, Iowa. Shingle gauge. 1,750,854; Mar. 18.
Nelson, John N., assignor to Universal Optical Corporation, Providence, R. I. Ophthalmic mounting. 1,750,963; Mar. 18.
Netschert, Franz, assignor to The Technical Glass Company, Incorporated, Los Angeles, Calif. Combined knob and latch. 1,750,812; Mar. 18.
Newell, Fred, Montreal, Quebec, Canada. Water-regulating sluice gate. 1,750,901; Mar. 18.
Newell Thompson Manufacturing Company, The. (See Reid, James S., assignor.)
Newkirk, William B., Western Springs, Ill., assignor to International Patents Development Company, Wilmington, Del. Manufacture of dextrose. 1,750,938; Mar. 18.
Newkirk, William B., Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del. Making dextrose. 1,750,939; Mar. 18.
Newman, Garrett L., Philadelphia, Pa. Automobile coat tree. 1,751,417; Mar. 18.
New Matix Equipment Co., The. (See Dilks, James J., jr., assignor.)
Nichols Copper Company. (See Fowler, E. J., and Baird, assignors.)
Nilsson, Oscar, Verona, N. J. Wall construction. 1,751,050; Mar. 18.
Nobbe, William E., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Laminated glass and producing the same. 1,751,051; Mar. 18.
Noble, William E., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Making laminated glass. 1,751,052; Mar. 18.
Noggle, Sam D., Canal Winchester, Ohio. Machine for cutting green corn from the cob. 1,751,351; Mar. 18.
Nordberg Manufacturing Company. (See Ruegg, Clement, assignor.)
Northern Indiana Brass Company. (See Martin, Ross, assignor.)
Norton, Harold W., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Handle for tennis rackets and the like. 1,750,644; Mar. 18.
Norton, Harold W., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. All-metal racket for tennis and like games. 1,750,727; Mar. 18.
Norton, Raymond J., Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind. Friction material. 1,751,167; Mar. 18.
Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Lighting and ignition switch. 1,750,683; Mar. 18.
Nourse, Clair P., Milwaukee, assignor to The Midland Company, South Milwaukee, Wis. Jointed clip. 1,751,352; Mar. 18.
Nourse, Clair P., Milwaukee, assignor to The Midland Company, Milwaukee, Wis. Jointed clip. 1,751,353; Mar. 18.
Nuhring, Charles, Cincinnati, Ohio. Hose rack. 1,750,964; Mar. 18.
Oakley, Alfred T., Thompson, Ohio, and P. Lupke, jr., assignors to Essex Rubber Company, Trenton, N. J. Drying apparatus. 1,750,813; Mar. 18.
Oakley, John, assignor to Baush Machine Tool Company, Springfield, Mass. Hydraulic feed mechanism for drilling machines. 1,750,684; Mar. 18.
Obergfell, Herbert F., River Forest, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic switch. 1,750,902; Mar. 18.
Obermaier, Otto J., Neustadt, Germany. Extractor for warp beams. 1,750,782; Mar. 18.
O'Brien, Joseph F., et al. (See Schafran, Isaac, assignor.)
O'Donnell, Thomas, Ironwood, Mich. Signal box. 1,751,168; Mar. 18.
Oestnaes, Victor L. (See Boots, E. R., Luce, and Oestnaes.)
Offenhauser, Christopher, Philadelphia, Pa. Cutting and mixing machine. 1,750,645; Mar. 18.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Ohio Foundry and Manufacturing Co., The. (See Sharp, William L., assignor.)
Ohio Match Company, The. (See Parker, Lucian E., assignor.)
Oldenbusch, Ernest, Brooklyn, N. Y. Holder for graphic instruments. 1,751,354; Mar. 18.
Oldham, Henry V., McRoberts, Ky. Undergarment. 1,751,355; Mar. 18.
Olsen, William R., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,750,685; Mar. 18.
Olvis, James E., Los Angeles, Calif. Coin selector. 1,750,686; Mar. 18.
Olvis, James E., Los Angeles, Calif. Coin-controlled door lock. 1,751,288; Mar. 18.
O'Neill, Clarence B., Clymer, Pa. Water-level indicator. 1,751,016; Mar. 18.
Orr, Max M., and C. E. Doxey, Minneapolis, Minn. Display case. Des. 80,738; Mar. 18.
Orton, Ernest W., Mountain View, and C. V. Foulds, Berkeley, assignors to The Pelton Water Wheel Company, San Francisco, Calif. Valve control system. 1,751,098; Mar. 18.
Osborne Process, Inc. (See Osborne, William L., assignor.)
Osborne, William L., assignor to Osborne Process, Inc., Los Angeles, Calif. Cleaning lubricant cases of engines. 1,751,053; Mar. 18.
Osterman, Samuel, Bronx, N. Y. Lamp socket. 1,750,965; Mar. 18.
Owens, Freeman H., New York, N. Y. Film sprocket. 1,750,940; Mar. 18.
Owens-Illinois Glass Company. (See Ferngren, Enoch T., assignor.)
Owens-Illinois Glass Company. (See La France, Richard, assignor.)
Owens-Illinois Glass Company. (See Rule, John F., assignor.)
Owens-Illinois Glass Company. (See Soubier, Leonard D., assignor.)
Pape, Wilhelm, assignor to Bergmann-Elektricitäts-Werke, Aktiengesellschaft, Berlin, Germany. High-pressure steam turbine. 1,750,814; Mar. 18.
Pardee, Frank, Hazelton, Pa. Coal breaker. 1,750,941; Mar. 18.
Parker, Lucien E., assignor to The Ohio Match Company, Wadsworth, Ohio. Vending machine. 1,751,169; Mar. 18.
Parker, Lucien E., assignor to The Ohio Match Company, Wadsworth, Ohio. Box. 1,751,170; Mar. 18.

Parker Rust Proof Company. (See Allen, William H., assignor.)
Parson, Evalyn S., Oakland, Calif. Twin dolls. Des. 80,739; Mar. 18.
Patche, Henry B., Kansas City, Mo., assignor to Genesy Electric Lantern Company, Rawlins, Wyo. Lantern. 1,750,856; Mar. 18.
Patterson, Isaiah D., Gardena, assignor of two-thirds to J. A. MacMeekin, San Jose, Calif. Amusement tower. 1,750,857; Mar. 18.
Paul, William E., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,751,418; Mar. 18.
Payson Manufacturing Company, The. (See Seldensticker, Oswald G., assignor.)
Pearce, Edwin S. (See Karibo, E. C., Pearce, and Retterer.)
Pearson, Gardner W. (See Hooke, F. G., and Flynn, assignors.)
Peel, Clarence H., Dundas, Ontario, Canada: Lawn mower. 1,751,054; Mar. 18.
Pelletier, Emmet F., St. Joseph, and W. E. Bandlow, Benton Harbor, Mich. Fuse plug. 1,751,055; Mar. 18.
Pelton Water Wheel Company, The. (See Orton, E. W., and Foulds, assignors.)
Pemberton, Uz C., Seffner, Fla. Artificial bait. 1,750,783; Mar. 18.
Perkins, George W., administrator. (See Smith, George M.)
Perry, William J., Shooter's Hill, London, England, assignor to The India Rubber Gutta Percha & Telegraph Works Company Limited, London, England. Golf ball. Des. 80,740; Mar. 18.
Persson, Per B., Malmo, Sweden. Disengaging gear for lifeboats. 1,751,289; Mar. 18.
Petersen, Thorvald A. M., assignor to Union Tank & Pipe Co., Los Angeles, Calif. Machine for rolling beads in stovepipe casings. 1,750,784; Mar. 18.
Peterson, Charles J. (See Smith, F. L., Caufield, and Peterson.)
Peterson, Frank W., et al. (See Huber, Paul J., assignor.)
Petty, Earl, Winfield, Kans., assignor to The De Laval Separator Company, New York, N. Y. Purifying wax distillates. 1,750,646; Mar. 18.
Pfanser, Edward M., assignor to Blackhawk Manufacturing Co., Wilwaukee, Wis. Jack. 1,751,056; Mar. 18.
Phelps, Roscoe G., Cleveland, Ohio, assignor to General Electric Company. Method and apparatus for mounting filaments. 1,751,419; Mar. 18.
Phillips, Max, Evansville, Wis. Resinous condensation product from lignin and furfural. 1,750,903; Mar. 18.
Pierce, Earl F., deceased, and J. D. Dickinson, Chicago, Ill.; Central Trust Company of Illinois, administrator, assignor to F. E. Pierce. Lead pencil. 1,750,647; Mar. 18.
Pierce, Florence E. (See Pierce, E. F., and Dickinson, assignors.)
Pietzsch, Albert. (See Adolph, G., and Pietzsch.)
Pike, Robert D. (See Cummings, Ross, assignor.)
Pike, Robert D., Piedmont, Calif. Making electrolytic iron from scrap. 1,751,099; Mar. 18.
Pinkler, Arthur P., assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn. Diaphragm. 1,751,356; Mar. 18.
Pitkin, Arthur F., Schenectady, N. Y. Steam-boiler stay bolt. 1,750,687; Mar. 18.
Pollak, Armin, Bronx, N. Y. Lock. 1,750,858; Mar. 18.
Ponting, Herbert G. (See Ford, George W., assignor.)
Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,750,688; Mar. 18.
Proctor & Schwartz Electric Company. (See Lapin, Brian A., assignor.)
Production Equipment Company. (See Meier, Earl C., assignor.)
Progressive Corrugated Paper Machinery Co., Inc. (See Schroeder, Louis H., assignor.)
Prosperity Company, Inc., The. (See Davis, Ernest, assignor.)
Quam, James P., Chicago, Ill. Loud-speaker unit. 1,750,648; Mar. 18.
Race, Harold L., Idalia, Colo. Net support for campers' cots. 1,751,200; Mar. 18.
Radermacher, Lawrence J. (See Goetz, J., and Radermacher.)
Radio Corporation of America. (See Minton, J. P., and Ringel, assignors.)
Raitke, Bruno, Libertyville, assignor to Mills Novelty Company, Chicago, Ill. Self-playing stringed instrument. 1,751,248; Mar. 18.
Randall, Cyril E., and L. R. Thompson, assignors to J. C. Savage, London, England. Optical apparatus for projecting illuminated signs upon screens. 1,750,785; Mar. 18.
Rankin, William K., Scotia, N. Y., assignor to General Electric Company. Electric switch mechanism. 1,751,420; Mar. 18.
Rattan Mfg. Co., The. (See Vooth, Harry C., assignor.)
Raus, John, assignor, by mesne assignments, to The National Formetal Company, Cleveland, Ohio. Fire extinguisher. 1,750,859; Mar. 18.
Rawlings, Jack V., Seattle, Wash., assignor to E. M. Beus, trustee. Soda Springs, Idaho. Gold separator. 1,750,860; Mar. 18.
Rayton, Wilbur B. (See Kellner, G. A. H., and Rayton.)
Reagan, Henry C., et al. (See Dickinson, Roy G., assignor.)
Reed, C. A., Company. (See Jopson, William G., assignor.)
Rees, Rees, Jersey City, N. J. Window cleaner. 1,751,057; Mar. 18.
Reid, Charles R., Shawinigan Falls, Quebec, Canada. Apparatus for removing water-borne material from raceways and the like. 1,751,421; Mar. 18.
Reid, Charles R., Shawinigan Falls, Quebec, Canada. Apparatus for removing water-borne material from raceways and the like. 1,751,422; Mar. 18.
Reid, James S., assignor to The Newell Thompson Manufacturing Company, Cleveland, Ohio. Leaf-spring structure. 1,751,171; Mar. 18.
Reinhardt, George D., Dallas, Texas. Valve and valve-operating mechanism. 1,751,172; Mar. 18.
Remlein, Frank L., New York, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat color dyeing. 1,750,942; Mar. 18.
Reninger, Frank J. (See Moyer, F. W., and Reninger.)
Republic Flow Meters Co. (See Cunningham, Arthur B., assignor.)
Reserve Holding Company. (See Stehlik, Rudolph F., assignor.)
Resnick, Helm W., Wichita, Kans. Ignition and generating means for gasoline lamps. 1,750,861; Mar. 18.
Rettenmeyer, Frederick W., assignor to The Kapier Company, Meriden, Conn. Metal unit for jewelry. Des. 80741; Mar. 18.
Retterer, Raymond W. (See Karibo, E. C., Pearce, and Retterer.)
Reyrolle, A., & Company Limited. (See Allan, Archibald, assignor.)
Ricardo, Harry R., London, England. Self-aligning spherical joint or bearing. 1,751,357; Mar. 18.
Rice, Howard, and G. A. Mutch, assignors to Hidawae Products Corporation, Miami, Fla. Window and door. 1,751,358; Mar. 18.
Rice, Thomas G., Hammondsport, N. Y. Extensible ladder foot. 1,751,173; Mar. 18.
Richards, Edward. (See Richards, Warren and E.)
Richards, Warren and E., Klamath Falls, Oreg. Cutting and grinding mechanism. 1,751,174; Mar. 18.
Richardson, Ralph S., Teaneck, N. J., assignor to Chemical Engineering Corporation, New York, N. Y. Synthetic production of ammonia. 1,750,649; Mar. 18.
Ricks, Fred. (See Bates, A., and Ricks.)
Rife, William H., Chicago, Ill. Duplex envelope. 1,751,216; Mar. 18.
Ringel, Abraham S. (See Minton, J. P., and Ringel.)
Rix, Glenway M., Cedarburg, assignor to Squier-Rix Company, Milwaukee, Wis. Hoisting device. 1,750,815; Mar. 18.
Robbins, Henry W., Harlingen, Tex. Wheel hub for agricultural machines and the like. 1,751,291; Mar. 18.
Robinson, Lewis T., Schenectady, N. Y., assignor to General Electric Company. Mercury rectifier. 1,751,423; Mar. 18.
Robison, George A., Bakersfield, Calif. Well-tool grab. 1,750,728; Mar. 18.
Rockwood Manufacturing Company. (See Hamerstadt, William D., assignor.)
Rogers, Catherine, Taunton, Mass. Curtain confiner. 1,750,816; Mar. 18.
Rohm, Albert C., Jr., Davenport, Iowa. Child's reciprocating rocker. 1,750,862; Mar. 18.
Röhm, Otto, Darmstadt, Germany. Emulsion. 1,751,217; Mar. 18.
Romero, Eugenio R., et al. (See Montano, Antonio, assignor.)
Root, William E., Bloomfield, Conn. Tongs. 1,750,817; Mar. 18.
Rosenblatt, Maurice C., Philadelphia, Pa. Acoustic treatment. 1,751,249; Mar. 18.
Rosenthal, Hans, Berlin, Germany, assignor to General Electric Company. Ventilating arrangement for dynamo-electric machines. 1,751,424; Mar. 18.
Rosentreter, Albert J., Roopton, N. J., assignor of one-half to F. E. Hutchins, New York, N. Y., and one-half to E. Zabriskie, Maplewood, N. J. Elevator-door mechanism. 1,751,058; Mar. 18.
Ross, Hillbert, Oakland, Calif. Doll. Des. 80,742; Mar. 18.
Rothermel, William E., Chicago, Ill. Fuel-saving device. 1,751,175; Mar. 18.
Rouanet, Louis, assignor to Compagnie D'Applications Mecaniques, Ivry-Port, France. Brake-operating device for motor vehicles. 1,750,904; Mar. 18.
Rowland, William E. (See Manuula, O. A., and Rowland.)
Roy, Wilfred J., East Orange, assignor to Gemex Company, Newark, N. J. Bracelet chain. 1,750,786; Mar. 18.
Royal, Roscoe, Chicago, Ill. Recording apparatus. 1,750,863; Mar. 18.
Rubber Service Laboratories Company, The. (See Vignos, James C., assignor.)
Ruben Rectifier Corporation. (See Ruben, Samuel, assignor.)
Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Asymmetric electric couple. 1,751,359; Mar. 18.
Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,751,360; Mar. 18.
Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,751,361; Mar. 18.

Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,751,362; Mar. 18.
Ruben, Samuel, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Electric-current rectifier. 1,751,363; Mar. 18.
Ruben, Samuel, Brooklyn, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J. Asymmetric electric couple. 1,751,460; Mar. 18.
Ruegg, Clement, assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Cylinder head for internal-combustion engines. 1,750,729; Mar. 18.
Rule, John F., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Automatic temperature control for glass. 1,750,966; Mar. 18.
Rule, John F., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Automatically controlling the temperature of molten glass. 1,750,967; Mar. 18.
Ruth, Samuel D., assignor to The John H. von Steen Company, Beatrice, Nebr. Portable silo. 1,751,250; Mar. 18.
Ryan, John J. (See Janda, Anna J., assignor.)
Rystrom, Oscar A., York, Nebr. Road sign. 1,751,176; Mar. 18.
Sager, Abraham, Chicago, Ill. Ring. Des. 80,743; Mar. 18.
St. John, Everett, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Drive ring. 1,750,694; Mar. 18.
Sampson, Henry L., Los Angeles, Calif. Reclosing mechanism for circuit breakers. 1,751,059; Mar. 18.
Sanborn, Elmer E. (See Kennedy, C. E., and Sanborn.)
Sanderson, Clarence H., Nutley, N. J., assignor to General Electric Company. Electric switch. 1,751,364; Mar. 18.
Sankyo Kabushiki Kaisha. (See Shoji, Ichitaro, assignor.)
Sardeson & La Mere Patents Holding Company, et al. (See Sardeson, R., and La Mere, assignors.)
Sardeson, Robert, and F. J. La Mere, assignors to Sardeson & La Mere Patents Holding Company, Ltd., Minneapolis, Minn., and Martinson Brothers & Osborn, Inc. Engine mounting for automotive vehicles. 1,751,100; Mar. 18.
Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
Sauer, Theodor Company. (See Sauer, Walter P., assignor.)
Sauer, Walter P., Forest Hills, assignor to Theodor Sauer Company, New York, N. Y. Extension table. 1,750,968; Mar. 18.
Sauveur, Harry, Hanover, Germany. Preventing leakage. 1,750,818; Mar. 18.
Savage, John C. (See Randall, C. E., and Thompson, assignors.)
Sawyer, David P., assignor to Economy Products Corporation, Cleveland, Ohio. Can-opening apparatus. 1,751,251; Mar. 18.
Sawyer, Henry A., administrator. (See Hancock, Harry H.)
Schaaf, Charles, Chicago, Ill. Thumb and finger warmer. 1,751,365; Mar. 18.
Schaefer, Frank M., Chicago, Ill., assignor to American Utensil Company. Separator. 1,750,764; Mar. 18.
Schafran, Isaac, assignor of one-fourth to J. Snarck, New York, N. Y., and one-fourth to J. F. O'Brien, Englewood, N. J. Pump. 1,750,969; Mar. 18.
Schaller, John L., Wellesley, Mass. Temporary pipe support. 1,750,819; Mar. 18.
Schaub, Edward L., assignor to Central Glass Works, Wheeling, W. Va. Goblet or similar article. Des. 80,747; Mar. 18.
Schieldrop, Bjarne H., assignor to Raw Knox Company, Pittsburgh, Pa. Method and apparatus for projecting loose material. 1,750,864; Mar. 18.
Schilpp, Helen, Eustis, Nebr. Stocking hanger. 1,750,905; Mar. 18.
Schlage Lock Co. (See Schlage, Walter R., assignor.)
Schlage, Walter R., assignor to Schlage Lock Co., San Francisco, Calif. Front-door handle plate. Des. 80,748; Mar. 18.
Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Door lock. 1,751,101; Mar. 18.
Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Closet-door latch. 1,751,102; Mar. 18.
Schlage Lock Company. (See Schlage, Walter R., assignor.)
Schleimer, John, Rochester, N. Y. Tool for removing caps from jars. 1,750,820; Mar. 18.
Schmid, Emil, Washington, D. C. Heat-exchange device for food liquids. 1,750,730; Mar. 18.
Schmidt, Gustav E., Chicago, Ill. Skate-runner support and making same. 1,750,689; Mar. 18.
Schmidt, Gustav E., Chicago, Ill. Tubular support for skate runners and process. 1,750,690; Mar. 18.
Schmidt, Gustav E., Chicago, Ill. Tubular support for skate runners and process. 1,750,691; Mar. 18.
Schmidt, Karl, Neuruppin, Germany. Portable fire extinguisher. 1,751,218; Mar. 18.
Schneider & Cie. (See Methlin, Nicolas E., assignor.)
Schroeder, Louis H., Woodhaven, assignor to Progressive Corrugated Paper Machinery Co. Inc., Brooklyn, N. Y. Taping machine for box blanks. 1,750,943; Mar. 18.
Schroeder, Max, Berlin, Germany. Recovering gas constituents from gas mixtures. 1,751,103; Mar. 18.
Schröter, Karl, Lichtenberg, near Berlin, Germany, assignor to General Electric Company. Hard-metal alloy and making same. Re17,624; Mar. 18.
Schubert, Charles, Long Island City, N. Y. Self-propelled sled. 1,751,252; Mar. 18.
Schurr, Charles H., assignor to The Lees-Bradner Company, Cleveland, Ohio. Gear-grinding machine. 1,751,104; Mar. 18.
Schutz, Ernest G. (See Heny, W. G., and Schutz.)
Schvacho, Stefan, Trencianske Teplice, Lazne, Czechoslovakia. Combination X-ray radiator. 1,751,292; Mar. 18.
Schwaim, Rudolph H., assignor of one-half to L. C. Kuirnschild, Millvale, Pa. Shoe-ventilating device. 1,750,970; Mar. 18.
Schwenger-Klein Company, The. (See Mailing, Arthur, assignor.)
Scott, Walter M. (See David, Bruce W., assignor.)
Seamon, Percy R., Cambridge, assignor to Florence Stove Company, Boston, Mass. Electric broiler. 1,751,219; Mar. 18.
Segrave, Henry O. de H., London, England. Automobile body. Des. 80,745; Mar. 18.
Segrin, Oscar E., Springfield, assignor, by mesne assignments, to Merrow Brothers, Inc., Boston, Mass. Candy-coating machine. 1,750,865; Mar. 18.
Seldensticker, Oswald G., Chicago, Ill., assignor to The Payson Manufacturing Company. Push and pull bar. Des. 80,744; Mar. 18.
Selby, Roger A., assignor to The Selby Shoe Company, Portsmouth, Ohio. Shoe. Des. 80,746; Mar. 18.
Selby Shoe Company, The. (See Selby, Roger A., assignor.)
Selector Corporation. (See Wurzbach, H. E., and Wadsworth, assignors.)
Sell, Helmut. (See Langenbeck, B., and Sell.)
Semon, Mathias O., Buffalo, N. Y., and C. W. Söderberg, assignors to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Manufacture of self-baking electrodes. 1,751,177; Mar. 18.
Semrad, Charles A., et al. (See Dickinson, Roy G., assignor.)
Sevison, Harry D., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Curtain fixture. 1,751,105; Mar. 18.
Shaffer, Ernest J., Tulsa, Okla. Slip socket. 1,750,906; Mar. 18.
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 80,749; Mar. 18.
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 80,750; Mar. 18.
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 80,751; Mar. 18.
Shaub, Benjamin M., Ithaca, N. Y. Drawing instrument. 1,751,366; Mar. 18.
Sheldon, Frank J. (See Kirchner, W., and Sheldon.)
Shelledy, Frederick H., Bladensburg, Md. Educational appliance. 1,751,106; Mar. 18.
Sherbondy, William E., Cleveland, Ohio. Carpet sweeper. 1,750,944; Mar. 18.
Sherman, Harold W., Green Bay, Wis. Cutting device. 1,751,293; Mar. 18.
Shoji, Ichitaro, Higashi Yodogawa-Ku, Osaka, assignor to Sankyo Kabushiki Kaisha, Tokyo, Japan. Light filter. 1,751,220; Mar. 18.
Shuster, F. B., Company, The. (See Matteson, George F., assignor.)
Siemens & Halske Aktiengesellschaft. (See Langenbeck, B., and Sell, assignors.)
Siemens & Halske Aktiengesellschaft. (See Lubberger, F., and Langer, assignors.)
Signor, William E., Gettysburg, Pa. Wigwag stop signal. 1,751,018; Mar. 18.
Sigrist, Frederick, Oxshott, and S. Camm, Long Ditton, England. Skeleton structure such as aircraft fuselage. 1,750,692; Mar. 18.
Silver, Jesse W., Tacoma, Wash. Propelling means for dirigible airships. 1,750,765; Mar. 18.
Simmer, Fritz, Lesienice, near Lwow (Lemberg), Poland, assignor to Aktieselskabet Dansk Gaerings Industri, Copenhagen, Denmark. Biological purification of waste water. 1,751,459; Mar. 18.
Simmons Company. (See Vollmer, William A., assignor.)
Simplex Piston Ring Company of America, The. (See Solenberger, Dean M., assignor.)
Skoglund, Joan V., assignor to Trojan Powder Company, New York, N. Y. Treating nitrated bodies. 1,751,367; Mar. 18.
Skold, John F., Chicago, Ill. Electrically-heated radiator. 1,750,907; Mar. 18.
Skowron, John, Los Angeles, Calif. Filing cabinet. 1,750,866; Mar. 18.
Sky Specialties Corporation. (See Heywood, Charles F., assignor.)
Slagle, Thomas J. (See Cross, H., and Slagle.)
Smith, Albert G., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for producing spaced blanks from a continuously-moving plastic sheet. 1,751,451; Mar. 18.
Smith, Albert H., Birmingham, England. Cinematograph film. Re17,625; Mar. 18.
Smith, Alfred B. and C. R., Wolverhampton, England. Mixing apparatus. 1,751,221; Mar. 18.
Smith, August J., Chicago, Ill. Wall cabinet. 1,751,107; Mar. 18.

Smith, Clifford R. (See Smith, Alfred B. and C. R.)
Smith, Frank L., J. S. Caufield, and C. J. Peterson, Sacramento, Calif., assignors, by mesne assignments, to Super Mold Corporation, Reno, Nev. Adjustable mold for retreading tires. 1,750,867; Mar. 18.
Smith, George M., deceased, Arlington; G. W. Perkins, administrator, Everett, Mass., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Bifocal fitting device. 1,750,731; Mar. 18.
Smith, George M., deceased, Arlington; G. W. Perkins, administrator, Everett, Mass., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Bifocal fitting device. 1,751,425; Mar. 18.
Smith, H. C., Manufacturing Company. (See Crum, Roland R., assignor.)
Smith, John W., assignor to Budd Wheel Company, Philadelphia, Pa. Traversing-roll mounting. 1,751,108; Mar. 18.
Smith, Russell H., Brookfield, Mass. Pavement. 1,751,100; Mar. 18.
Snaman, William E., Pittsburgh, Pa. Merchandise-cover container. 1,750,821; Mar. 18.
Snarck, Jack, et al. (See Schafran, Isaac, assignor.)
Snider, Joseph, Vancouver, British Columbia, Canada. Domestic continuous ironing device. 1,750,908; Mar. 18.
Societe Anonyme Jean Paton. (See Huret, Georges, assignor.)
Societe du Carburateur Zenith. (See Heftler, Victor R., assignor.)
Söderberg, Carl W. (See Sem, M. O., and Söderberg.)
Solar Illuminating Company. (See Lazerson, Abraham, assignor.)
Solenberger, Dean M., assignor to The Simplex Piston Ring Company of America, Inc., Cleveland, Ohio. Piston ring. 1,751,253; Mar. 18.
Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Method and apparatus for producing tubular glass. 1,750,971; Mar. 18.
Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Method of and apparatus for forming glass tubing. 1,750,972; Mar. 18.
Soubier, Leonard D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Glass feeder. 1,750,973; Mar. 18.
Spalding, A. G., & Bros. (See Gammeter, John R., assignor.)
Spalding, John D., Crafton, Pa., assignor to The National Supply Company, Toledo, Ohio. Elevator. 1,750,822; Mar. 18.
Sparling, Eric C., Garden City, assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Change of course detector for compasses. 1,751,110; Mar. 18.
Sperry Development Company. (See Sperry, Elmer A., assignor.)
Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Fuel injecting and igniting means for oil engines. 1,751,254; Mar. 18.
Sperry Gyroscope Company. (See Sparling, Eric C., assignor.)
Spital, Clifford, Birmingham, England. Washbasin appliance. 1,751,294; Mar. 18.
Sprenger, George W., Lynn, Mass., assignor to General Electric Company. Instrument scale plate. 1,751,426; Mar. 18.
Squier-Rix Company. (See Rix, Glenway M., assignor.)
Standard Lock and Measure Corporation. (See Maliuk, Assad M., assignor.)
Standard Oil Company. (See Wilson, Robert E., assignor.)
Standard Oil Company of California. (See Bessonett, Leland S., assignor.)
Stanton, Willard J., assignor, by mesne assignments, to American Electric Company, Inc., Chicago, Ill. Protective device. 1,750,909; Mar. 18.
Stark, Sander, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projecting apparatus. 1,750,910; Mar. 18.
Steadfast Manufacturing Company. (See Thompson, Eugene A., assignor.)
Steam Vehicle Corporation of America. (See White, Raymond E., assignor.)
Steele, James A., and J. D. Brandes, Birmingham, Ala. Headlight visor. 1,751,111; Mar. 18.
Stehlik, Rudolph F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Cradle-type telephone desk set. 1,751,255; Mar. 18.
Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Fuse box. Des. 80,752; Mar. 18.
Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Fuse box. Des. 80,753; Mar. 18.
Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Switch. 1,750,698; Mar. 18.
Steinmetz, Harold M., New York, N. Y. Movable stile for window frames. 1,750,974; Mar. 18.
Sterling Pump Works. (See Magnuson, Roy M., assignor.)
Steven, Otto L., Berlin, Germany. Leather-dressing process. 1,750,732; Mar. 18.
Stever, William, assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa. Screw driver and nut holder. 1,751,112; Mar. 18.
Stewart, Alexander, Roselle, N. J., assignor, by mesne assignments, to U. S. Chemical Products Co., Inc. Production of basic lead chromate. 1,751,295; Mar. 18.
Stewart, Richard W., Auburn, N. Y. Rifle range. 1,750,823; Mar. 18.
Stieh, William M., jr., Ridgefield Park, N. J. Engine valve. 1,750,975; Mar. 18.
Stigers, Morton J. (See Gleszen, L. L., Stigers, and Taylor.)
Stokes, Charles L., Los Angeles, Calif., assignor to C. B. Camp, trustee, Glencoe, Ill. Regulating fuel. 1,750,766; Mar. 18.
Stone, Fred L., Schenectady, N. Y., assignor to General Electric Company. Synchronous motor control. 1,751,427; Mar. 18.
Straub, Emile, Emmishofen, Switzerland. Apparatus for stretching the material for handkerchief embroidery in the shuttle embroidery machine. 1,751,428; Mar. 18.
Strietmann, Herman H., assignor to Littleford Brothers, Cincinnati, Ohio. Asphaltum-heater apparatus. 1,751,452; Mar. 18.
Strigl, Karl J., New York, N. Y. Transmission mechanism. 1,750,787; Mar. 18.
Stromberg-Carlson Telephone Manufacturing Company, The. (See Levis, John H., jr., assignor.)
Stuart, Albert F., Portland, Me. Rotary valve mechanism for internal-combustion engines. 1,750,733; Mar. 18.
Studebaker Corporation, The. (See Hughes, James R., assignor.)
Sturrock, William K., Livingston, Calif. Sifter. 1,750,976; Mar. 18.
Styer, Charles A., Wilkinsburg, and W. M. Daun, Sharon, Pa., assignors to Westinghouse Electric and Manufacturing Company. Compensated gas detector. 1,751,222; Mar. 18.
Sullivan, James R., Taft, Calif. Oil and gas separator. 1,751,017; Mar. 18.
Super Mold Corporation. (See Smith, F. L., Caufield, and Peterson, assignors.)
Superior Type Company, The. (See Swift, Justin R., assignor.)
Surface Combustion Company. (See Mantle, G. D., and Munford, assignors.)
Sutcliffe, Nathaniel, Newark, N. J. Nut lock. 1,751,296; Mar. 18.
Swander, Amos H., Worland, Wyo. Heating system and boiler construction. 1,751,297; Mar. 18.
Swift, Justin R., Evanston, assignor to The Superior Type Company, Chicago, Ill. Drawing kit. 1,751,368; Mar. 18.
Swift, Justin R., Evanston, assignor to The Superior Type Company, Chicago, Ill. Molding flask. 1,751,369; Mar. 18.
Swinland, Ingman. (See Fountaine, Philiza, assignor.)
Taeschner, Kurt, Duren, Germany. Production of artificial teeth. 1,751,178; Mar. 18.
Taliaferro, Robert R. (See Lewis, A. T., Gant, and Taliaferro.)
Tantillo, James, Glendale, assignor of one-half to F. E. Gaines, Los Angeles, Calif. Aircraft. 1,750,911; Mar. 18.
Taylor, Cecil H., Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind. Vehicle brake. 1,750,788; Mar. 18.
Taylor, Edmund R. (See Gleszen, L. L., Stigers, and Taylor.)
Taylor, Frederick A. and H. A., Kirton, near Boston, England. Temperature-regulating apparatus. 1,751,370; Mar. 18.
Taylor, Henry A. (See Taylor, Frederick A. and H. A.)
Teague, Merwyn C., Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating aqueous dispersions of rubber and products obtained thereby. 1,750,767; Mar. 18.
Tebander, Swan N., Maywood, Ill. Punch-sharpening device. 1,751,113; Mar. 18.
Technical Glass Company, The. (See Netschert, Franz, assignor.)
Telefonaktiebolaget L. M. Ericsson. (See Hultman, Carl A. W., assignor.)
Telefonaktiebolaget L. M. Ericsson. (See Trechcinski, Roman, assignor.)
Ter Beest, Benjamin H., Madison, Wis. Valve for water softeners. 1,751,061; Mar. 18.
Texas Company, The. (See Hadaway, William S., jr., assignor.)
Thau, Samuel. (See Gilowita, Benjamin, assignor.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electropneumatic brake equipment. 1,750,650; Mar. 18.
Thomas, William A. (See Davenport, W. S., and Thomas.)
Thompson, Alfred F. (See Benner, R. C., and Thompson.)
Thompson, Eugene A., Syracuse, assignor to Steadfast Manufacturing Company, Inc., Geneva, N. Y. Ventilator. 1,750,789; Mar. 18.
Thompson, Harry A., Bronxville, N. Y. Power-driven wrench. 1,750,825; Mar. 18.
Thompson, Leonard R. (See Randall, C. E., and Thompson.)
Thompson, Thomas E., Los Angeles, Calif. Educational device. 1,750,977; Mar. 18.
Thomson, George M. (See Haire, R. E., and Thomson.)
Thomson, George M., Caledonia, Ontario, assignor to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Reenforced building material and making the

Thomson, George M., Caledonia, Ontario, assignor to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Process and apparatus for making cellular insulating material. 1,751,430; Mar. 18.
Tiefkemeyer, Henry, St. Louis, Mo. Hot-air furnace. 1,750,824; Mar. 18.
Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Timken Roller Bearing Company, The. (See Curtis, George W., assignor.)
Timken Roller Bearing Company, The. (See Drowns, Irvin, assignor.)
Tinker, James J., San Diego, Calif. Amalgamator. 1,750,868; Mar. 18.
Tobin, Kenneth J. (See Wasberg, A., and Tobin.)
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 80,754; Mar. 18.
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 80,755; Mar. 18.
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 80,756; Mar. 18.
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 80,757; Mar. 18.
Tope, Vincent, Sharpsville, Pa. Ingot-mold flask. 1,750,734; Mar. 18.
Tourtois, Fernand, assignor to Coty, Inc., New York, N. Y. Bottle stopper. Des. 80,758; Mar. 18.
Towne, Benjamin, New York, N. Y. Crayon and eraser holder. 1,750,912; Mar. 18.
Transportation Devices Corporation. (See Karibo, E. C., Pearce, and Retterer, assignors.)
Traquair, John, Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Method of and apparatus for making paper. 1,751,256; Mar. 18.
Tratsch, Walter A., Chicago, Ill. Target for amusement devices. 1,750,945; Mar. 18.
Trechcinski, Roman, Warsaw, Poland, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Automatic and semiautomatic telephone system. 1,751,431; Mar. 18.
Trojan Powder Company. (See Skoglund, Jean V., assignor.)
Trumpf, Gottlieb, Wilkinsburg, Pa. Toy. Des. 80,759; Mar. 18.
Trumpy, John, Haddonfield, N. J., assignor to Mathis Yacht Building Company. Protected window for ships' hulls. 1,750,695; Mar. 18.
Trussell, Clarence D., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Loose-leaf book. 1,750,946; Mar. 18.
Trussell Manufacturing Company. (See Trussell, Clarence D., assignor.)
Tucapau Mills. (See Goldman, Maurice A., assignor.)
Tupper, Russell E., Salem, Mass. Railway pad. 1,750,735; Mar. 18.
Typograph G. m. b. H. (See Dorneth, Julius, assignor.)
Union Iron Works. (See Bach, George W., assignor.)
Union Switch & Signal Company, The. (See Ashworth, H. E., and Lazich, assignors.)
Union Switch & Signal Company, The. (See Grondahl, Lars O., assignor.)
Union Tank & Pipe Co. (See Petersen, Thorvald A. M., assignor.)
United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)
United Reproducers Corporation. (See Harris, Isaac, assignor.)
United Shoe Machinery Corporation. (See Bates, A., and Ricks, assignors.)
United Shoe Machinery Corporation. (See Chiasson, George, assignor.)
United Shoe Machinery Corporation. (See Eppler, Andrew, assignor.)
U. S. Chemical Products Co. (See Stewart, Alexander, assignor.)
United States Gypsum Company. (See Brookby, Harry E., assignor.)
United States Metal Products Co. (See Dreusike, William, assignor.)
Universal Optical Corporation. (See Beattey, Earle J. R., assignor.)
Universal Optical Corporation. (See Nelson, John N., assignor.)
Upson, Charles A., assignor of one-half to W. H. Upson, Lockport, N. Y. Moisture-content tester for paper making machines. 1,751,179; Mar. 18.
Upson, W. Harrison. (See Upson, Charles A., assignor.)
Urls, Christopher R., Los Angeles, Calif. Scaffold construction. 1,750,869; Mar. 18.
Uttz, William A., sr., Cleveland, Ohio. Display-desk-appliance machine casing or similar article. Des. 80,760; Mar. 18.
Vance, Walter N., Chicago Heights, assignor, by mesne assignments, to Lyon Metal Products, Inc., Aurora, Ill. Sheet-metal rack. 1,750,696; Mar. 18.
Van Hoofstadt, Edward. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)
Van Raalte, Dirk B. K., assignor to Charles P. Limbert Company, Holland, Mich. Drawer slide. 1,751,060; Mar. 18.
Van Valkenburg, John J., Lowe Inlet, British Columbia, Canada. Safety shackle snap. 1,751,458; Mar. 18.
Varnau, Bernard H., and T. B. Wayne, Sugar Land, Tex. Ultrafine, soft, granulated sucrose sugar. 1,751,298; Mar. 18.
Vellebuona, Julius C., Atlanta, Ga., assignor of fifty per cent to L. Loeb, New York, N. Y. Holder for disinfectants, deodorants, and the like. 1,751,257; Mar. 18.
Victor Talking Machine Company. (See Jones, Frederick C., assignor.)
Vidrio Products Corporation. (See Hoffberg, Louis, assignor.)
Viele, John H., Elmira, N. Y. Water-locking suction valve for hydrocarbon fuel storage tanks. 1,751,371; Mar. 18.
Vignos, James C., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Cleaning and protecting metal surfaces. 1,750,651; Mar. 18.
Vogel, Fred J., Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. 1,751,223; Mar. 18.
Vogl, Hubert, Neu Ullersdorf, Austria. Bark-stripping machine. 1,751,258; Mar. 18.
Vokes, Cecil G. (See Flood, Henry R., assignor.)
Volle, George H., Springfield, Ill. Electrical window lift for automobiles. 1,750,736; Mar. 18.
Volim, Adolf, Somerville, Mass. Glass cutter. 1,750,913; Mar. 18.
Vollmer, William A., assignor to Simmons Company, Kenosha, Wis. Tip. 1,751,372; Mar. 18.
Vons, John, Cleveland, Ohio. Signal-light reflector and mounting therefor. 1,750,947; Mar. 18.
Von Steen, John H., Company, The. (See Ruth, Samuel D., assignor.)
Voorhees, Lee G., Long Island City, N. Y., assignor to National Carbon Company, Inc. Focusing flash light. 1,751,432; Mar. 18.
Vooth, Harry C., East Haven, assignor to The Rattan Mfg. Co., New Haven, Conn. Portable garage light. 1,750,870; Mar. 18.
Wachter, Henry F. A., Peru, Ill. Pivoted window. 1,750,914; Mar. 18.
Wadsworth, Leslie H. (See Wursbach, H. E., and Wadsworth.)
Wagner, Gerhard, F. Funke, and R. Heymanns, Dusseldorf-Oberkassel, Germany. Adjustable tightening device for doors and the like. 1,751,373; Mar. 18.
Wallace, James M. P., Norristown, Pa. Weather vane. 1,751,433; Mar. 18.
Waller, Carl R., assignor to De Laval Steam Turbine Company, Trenton, N. J. Nozzle construction. 1,750,652; Mar. 18.
Wallraff, William H., et al. (See Huber, Paul J., assignor.)
Walstrom, Axel M., Minneapolis, Minn. Lubricating device. 1,751,114; Mar. 18.
Waltemath, Adolf, Oberschoneweide, Germany, assignor to General Electric Company. Control apparatus. 1,751,374; Mar. 18.
Walter, Otto, Perrysville, Ind. Tile-cutting machine. 1,750,737; Mar. 18.
Waltrip, Henry D., and R. M. Horton, Chicago, Ill. Circuit closer. 1,750,738; Mar. 18.
Wappler, Reinhold H., Yonkers, N. Y. Urethral clip. 1,750,654; Mar. 18.
Warlunel, Charles, Paris, France. Apparatus for measuring pressures. 1,751,375; Mar. 18.
Warren, William H. (See Miller, Frederick C., assignor.)
Wasberg, Axel, and K. J. Tobin, assignors to Camel Company, Chicago, Ill. Door-lifting means. 1,750,653; Mar. 18.
Watkins, Benjamin F., assignor to Electric Cotton Picker Co., Inc., Philadelphia, Pa. Cotton picker. 1,751,376; Mar. 18.
Watson, George R., assignor to Armstrong Manufacturing Company, Waterloo, Iowa. Well-drilling apparatus. 1,750,828; Mar. 18.
Watson-Stillman Co., The. (See Davis, Frank L., jr., assignor.)
Wayne, Truman B. (See Varnau, B. H., and Wayne.)
Weatherhead, Albert J., jr., Cleveland, Ohio. Controlling device. 1,750,697; Mar. 18.
Webb, George E., assignor to Kochring Company, Milwaukee, Wis. Automatic measuring tank. 1,750,978; Mar. 18.
Webb, George E., assignor to Kochring Company, Milwaukee, Wis. Water-measuring tank. 1,750,979; Mar. 18.
Weichelt, Carl L., assignor to Wirt Company, Philadelphia, Pa. Lamp-socket rheostat. 1,750,730; Mar. 18.
Weichelt, Carl L., assignor to Wirt Company, Philadelphia, Pa. Current regulator for electric lamps. 1,750,740; Mar. 18.
Weidlich Bros. Mfg. Co., The. (See Flauder, Alfred J., assignor.)
Welgele, Edmund, Bergenfield, N. J., assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Pneumatic-dispatch-tube system. 1,751,115; Mar. 18.
Welton, Park E., Cuyahoga Falls, Ohio. Rubber calender. 1,751,116; Mar. 18.
Wemp, Ernest E., Detroit, Mich. Vibration dampener. 1,750,827; Mar. 18.
Wemp, Ernest E., Detroit, Mich. Clutch. 1,750,828; Mar. 18.
Wenischniger, Johann, Graz-Eggenberg, Austria. Combined sitz bath. 1,751,180; Mar. 18.

Wentz, Jesse F., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Treating loaded submarine cables. 1,751,259; Mar. 18.

Wermine, Hugo H., Villa Park, assignor to Belden Manufacturing Company, Chicago, Ill. Electric connecter. 1,751,299; Mar. 18.

Western Electric Company. (See Farrington, John F., assignor.)

Western Electric Company. (See Mueller, Emil C., jr., assignor.)

Western Electric Piano Company. (See Larson, Axel F., assignor.)

Westinghouse Air Brake Company, The. (See Farmer Clyde C., assignor.)

Westinghouse Air Brake Company, The. (See Good, John N., assignor.)

Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ashbaugh, John H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bethel, Claude, assignor.)

Westinghouse Electric & Manufacturing Company. (See Davis, R. L., and Little, assignors.)

Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hellmund, Rudolf E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Krantz, Hubert K., assignor.)

Westinghouse Electric & Manufacturing Company. (See Kucher, Andrew A., assignor.)

Westinghouse Electric & Manufacturing Company. (See McCulloch, Leon, assignor.)

Westinghouse Electric & Manufacturing Company. (See McShane, Phelan, assignor.)

Westinghouse Electric and Manufacturing Company. (See Vogel, Fred J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Styer, C. A., and Dann, assignors).

White, John W., Buffalo, N. Y., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wheel. 1,750,655; Mar. 18.

White, Raymond E., assignor to Steam Vehicle Corporation of America, Newton, Mass. Boiler feed pump. 1,750,980; Mar. 18.

Whitman & Barnes, Inc. (See Harrington, Ferris T., assignor.)

Wicks, John, Oak Park, assignor to Automatic Electric, Inc., Chicago, Ill. Automatic telephone system. 1,751,260; Mar. 18.

Wietzel, Gustav, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of combustible gas containing hydrogen and carbon monoxide. 1,751,117; Mar. 18.

Wilecdator Company, The. (See Fonseca, Edward L., assignor.)

Wildeboer, Marinus, Eindhoven, Netherlands, assignor to General Electric Company. Filament-mounting machine. 1,751,434; Mar. 18.

Wildhaber, Ernest, Brooklyn, N. Y. Differential mechanism. 1,750,981; Mar. 18.

Wilkes, Thomas S. (See McHenry, F. M., and Wilkes.)

Wilkinson, George D., Oak Park, assignor to Cribben & Sexton Company, Chicago, Ill. Heater casing. Des. 80,761; Mar. 18.

Williams, Clarence O., Evansville, Ind. Tool for removing glass and other objects from automobiles. 1,751,181; Mar. 18.

Williams, Rolland G., assignor to Malleable Iron Fittings Company, Branford, Conn. Electric-railway equipment. 1,751,118; Mar. 18.

Williams, Rolland G., assignor to Malleable Iron Fittings Company, Branford, Conn. Highway guard-fence fixture. 1,751,119; Mar. 18.

Wilson, Alfred E., Bromley, England. Apparatus for jointing lead or like pipes or sheaths. 1,751,019; Mar. 18.

Wilson, Elihu C., Los Angeles, Calif. Well screen. 1,750,871; Mar. 18.

Wilson, Fred D., Harvey, assignor to Austin Manufacturing Co., Chicago, Ill. Gutter-broom street sweeper. 1,750,829; Mar. 18.

Wilson, Robert E., Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind. Continuous distillation of heavy hydrocarbon oils. 1,751,182; Mar. 18.

Wilson, Wylie G., Jersey City, N. J., assignor to Everlasting Valve Company. Spring. 1,751,261; Mar. 18.

Wine, William E., Toledo, Ohio, and B. W. Kadel, Baltimore, Md. Door mechanism for railway cars. 1,751,183; Mar. 18.

Winship, Emory. (See Marcum, Arthur L., assignor.)

Wintrob, Jacob M., Philadelphia, Pa. Combined valance-board support and curtain-rod bracket. 1,751,062; Mar. 18.

Wiremold Company, The. (See Frederickson, Otto A., assignor.)

Wirt Company. (See Weichelt, Carl L., assignor.)

Wodarra, Adolf, Berlin-Lankwitz, Germany. Door lock. 1,751,184; Mar. 18.

Wollensak, Andrew, assignor to Wollensak Optical Company, Rochester, N. Y. Vignetting shutter. 1,750,830; Mar. 18.

Wollensak Optical Company. (See Wollensak, Andrew, assignor.)

Woodworth, Charles B., Binghamton, N. Y. Spring cover. 1,750,915; Mar. 18.

Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Well-drilling apparatus. 1,750,982; Mar. 18.

Wrightsman, Philip G., Chester Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making nitrated sugar explosives. 1,750,948; Mar. 18.

Wrightsman, Philip G., Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrated carbohydrate explosive and process of manufacture. 1,750,949; Mar. 18.

Wrightsman, Philip G., Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrated carbohydrate explosives and producing same. 1,751,063; Mar. 18.

Wrightsman, Philip G., Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrated carbohydrate explosive and producing the same. 1,751,377; Mar. 18.

Wrigley, Wm., Jr., Company. (See Kappes, Andrew C., assignor.)

Wurman, Harry P., Brooklyn, N. Y., assignor to Bayuk Cigars Incorporated, Philadelphia, Pa. Casing tobacco. 1,750,656; Mar. 18.

Wurzbach, Hugh E., and L. H. Wadsworth, Magna, Utah, assignors to Selector Corporation, Salt Lake City, Utah. Method and apparatus for selecting metal checks. 1,751,120; Mar. 18.

Wüst, Fritz, Dusseldorf, Germany. Smelting processes. 1,751,185; Mar. 18.

Yacht- und Bootswerft Burmester m. b. H. (See Burmester, E., and Hein, assignors.)

York Heating and Ventilating Corporation. (See Lewis, A. T., Gant, and Taliaferro, assignors.)

Young, L. A., Spring & Wire Corporation. (See Brandt, Gustav O., assignor.)

Young, Walter H. (See Eckland, E. O., and Young.)

Young, William R. (See De Reamer, F. C., and Young.)

Zabriskie, Edgar, et al. (See Rosentreter, Albert J., assignor.)

Zahn & Co., G. m. b. H. (See Klöhn, Ernst, assignor.)

Zalden, Joseph R., Pittsburgh, Pa. Rumble seat and locking device. 1,751,378; Mar. 18.

Zell, David H., New York, N. Y. Vanity case. 1,750,983; Mar. 18.

Zell, David H., Brooklyn, N. Y. Vanity case. 1,750,984; Mar. 18.

Zenner, George H., New York, N. Y., assignor to The Linde Air Products Co. Neck ring for compressed-gas containers. 1,751,435; Mar. 18.

Zokelt, Carl G. (See Molesworth, C. E., Dudman, and Zokelt.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accounting device. J. Grant. 1,751,082; Mar. 18.

Acoustic treatment. M. C. Rosenblatt. 1,751,249; Mar. 18.

Advertising device. H. R. Flood. 1,751,197; Mar. 18.

Air cleaner, Fluid. J. L. Green. 1,751,324; Mar. 18.

Air-conditioning apparatus. A. T. Lewis, H. P. Gant, and R. R. Taliaferro. 1,751,043; Mar. 18.

Aircraft. J. Tantillo. 1,750,011; Mar. 18.

Aircraft. Wing construction for. E. B. Carns. 1,750,832; Mar. 18.

Air-line hull and trash extractor. J. E. Mitchell. 1,750,852; Mar. 18.

Air-straining device. C. C. Farmer. 1,750,632; Mar. 18.

Alcohol. Producing anhydrous. O. Leonori. 1,751,211; Mar. 18.

Alkali from natural brine, Production of. R. Cummings. 1,751,432; Mar. 18.

Alloy. P. Berthélemy and H. De Monthy. 1,750,700; Mar. 18.

Alloy, Aluminum. A. Geyer. 1,750,751; Mar. 18.

Alloy and cutting tool made therefrom. B. E. Field. 1,750,796; Mar. 18.

Alloy and making same. Hard-metal. K. Schröter. Re17,624; Mar. 18.

Alloy block for soldering. F. W. Koch. 1,750,671; Mar. 18.

Amalgamator. J. J. Tinker. 1,750,868; Mar. 18.

Ammonia, Synthetic production of. R. S. Richardson. 1,750,649; Mar. 18.

Amphibole of the asbestos variety, Treating. C. E. Miller. 1,750,725; Mar. 18.

Amusement tower. I. D. Patterson. 1,750,857; Mar. 18.

Anchor-inserting machine. W. Koning. 1,751,410; Mar. 18.

Anchorage means. C. Hopper and W. L. Arnold. 1,750,841; Mar. 18.

Andiron. H. J. Gross. Des. 80,724; Mar. 18.

Antifriction wheel. F. Beemer. 1,751,453; Mar. 18.

Apparel, Ornamented article of wearing. A. A. Glidden. 1,750,799; Mar. 18.

Ash stand. L. Hoffberg. Des. 80,764; Mar. 18.

Auto case clamp. P. J. Huber. 1,750,669; Mar. 18.

Automatic switch. H. F. Obergfell. 1,750,902; Mar. 18.

Automobile body. H. O. de H. Segrave. Des. 80,745; Mar. 18.

Automobile jack. R. H. Dart. 1,750,603; Mar. 18.

Automobile screen. M. L. Gray and E. Ford. 1,751,200; Mar. 18.

Axle, Drive. A. I. Marcum. 1,750,899; Mar. 18.

Bag. L. G. Bigelow. 1,751,229; Mar. 18.

Bag machine. H. B. Landau. 1,751,091; Mar. 18.

Bait, Artificial. U. C. Pemberton. 1,750,783; Mar. 18.

Baking apparatus. W. Ehrhart. 1,751,312; Mar. 18.

Baking pan. L. H. Debs. 1,751,268; Mar. 18.

Ball: *See*—
Packaged playing ball.

Ball, Golf. W. J. Perry. Des. 80,740; Mar. 18.

Bar: *See*—
Fire bar.

Bark-stripping machine. H. Vogl. 1,751,258; Mar. 18.

Barrel-handling apparatus. J. R. Coe. 1,750,878; Mar. 18.

Baster for meats. G. J. Lieser and P. C. Murphy. 1,750,809; Mar. 18.

Bath: *See*—
Sitz bath.

Bath and drier, Infant's. W. F. Abbott. 1,750,698; Mar. 18.

Beans, Treating cacao. G. Defren. 1,750,795; Mar. 18.

Bearing, Antifriction. W. A. Geiger. 1,750,797; Mar. 18.

Bearing construction. G. W. Curtis. 1,751,134; Mar. 18.

Bearing construction for railway cars, Center. H. W. Alden. 1,751,065; Mar. 18.

Bearing, Roller. W. F. and J. A. Berger. 1,751,189; Mar. 18.

Bearings, Cage for ball. A. H. Linde. 1,750,641; Mar. 18.

Bifocal fitting device. G. M. Smith. 1,750,731; Mar. 18.

Bifocal fitting device. G. M. Smith. 1,751,425; Mar. 18.

Binder, Loose-leaf. J. C. Dawson. 1,751,131; Mar. 18.

Binding and like strips to articles, Attachment of. A. Bates and F. Ricks. 1,751,123; Mar. 18.

Bit: *See*—
Core bit.

Blades or wings and propellers, Controlling the angle of incidence of aero revolving. D. Kay. 1,750,778; Mar. 18.

Blanks for drills, etc., Twisting noncircular. F. T. Harrington. 1,750,776; Mar. 18.

Blanks from a continuously-moving plastic sheet, Apparatus for producing spaced. A. G. Smith. 1,751,451; Mar. 18.

Blasting device. J. Mora. 1,751,015; Mar. 18.

Bleaching process. G. Adolph and A. Pietzsch. 1,750,657; Mar. 18.

Block: *See*—
Building block.

Blower. C. T. Morse. 1,750,681; Mar. 18.

Blowpipe. J. Harris. 1,751,402; Mar. 18.

Blowpipe tip and making same. L. Campbell, Jr. 1,751,448; Mar. 18.

Blowpipes, Adapter for. L. Campbell, Jr. 1,751,447; Mar. 18.

Board: *See*—
Violin practice finger board.

Boat. E. Burmester and H. Hein. 1,750,773; Mar. 18.

Boat, Speed. F. B. Bremerman. 1,750,743; Mar. 18.

Body-drying implement. F. H. Lach. 1,750,845; Mar. 18.

Boiler: *See*—
Steam boiler.

Book, Loose-leaf. C. D. Trussell. 1,750,946; Mar. 18.

Booth for spray painting. J. G. Fahlstrom. 1,750,774; Mar. 18.

Bottle. G. Huret. Des. 80,729; Mar. 18.

Bottle opening device. C. E. Kennedy and E. E. Sanborn. 1,750,759; Mar. 18.

Bottle stopper. F. Tourtois. Des. 80,758; Mar. 18.

Bowl or similar article. E. Fairchild. Des. 80,722; Mar. 18.

Box: *See*—
Dispensing and cooling box. Signal box.

Box. L. E. Parker. 1,751,170; Mar. 18.

Box forming and sealing device. W. W. Brust. 1,751,390; Mar. 18.

Box-making machine. C. O. K. Laube. 1,750,717; Mar. 18.

Box or similar article of manufacture. J. A. Corbett. Des. 80,720; Mar. 18.

Bracelet clasp. H. Grasmere. 1,750,667; Mar. 18.

Bracket coupling for apparatus for electric-lighting systems. G. R. Brown. 1,751,202; Mar. 18.

Brake: *See*—
Load brake. Vehicle brake.

Brake-drum construction. E. A. Nelson. 1,750,682; Mar. 18.

Brake equipment, Electropneumatic. T. H. Thomas. 1,750,650; Mar. 18.

Brake mechanism. W. A. Christensen. 1,750,875; Mar. 18.

Brake mechanism. A. Jansson. 1,750,755; Mar. 18.

Brake mechanism for motor vehicles. L. P. Mooers. 1,750,936; Mar. 18.

Brake-operating device for motor vehicles. L. Rouanet. 1,750,904; Mar. 18.

Brass-truing machine. E. J. McKernan. 1,751,214; Mar. 18.

Bread, Manufacture of. J. Mattl. 1,750,720; Mar. 18.

Brick and the like, Composition and manufacture of refractory basic. C. S. Garnett. 1,751,234; Mar. 18.

Brines toward iron and steel, Inhibiting corrosive effect of. O. V. Martin. 1,750,761; Mar. 18.

Broiler, Electric. P. R. Seamon. 1,751,219; Mar. 18.

Building block. D. O. Forman. 1,751,272; Mar. 18.

Building fabric, Reenforced. E. D. Coddington. 1,750,877; Mar. 18.

Building material and making the same, Reenforced. G. M. Thomson. 1,751,429; Mar. 18.

Bumper-actuated control for vehicles, Safety. W. Adam. 1,751,186; Mar. 18.

Button and fastener therefor, License. W. F. Blackburn. 1,750,772; Mar. 18.

Cabinet, Filing. J. Skowron. 1,750,806; Mar. 18.

Cabinet, Wall. A. J. Smith. 1,751,107; Mar. 18.

Cable, Electrical. O. A. Frederickson. 1,751,143; Mar. 18.

Cable, High-tension. W. C. Hayman. 1,751,403; Mar. 18.

Cables, Treating loaded submarine. J. F. Wentz. 1,751,259; Mar. 18.

Calender, Rubber. P. E. Welton. 1,751,116; Mar. 18.

Camera, Photographic. J. H. Johnson. 1,750,758; Mar. 18.

Can: *See*—
Oil can.

Candy-coating machine. O. E. Segrin. 1,750,665; Mar. 18.

Can-opening apparatus. D. P. Sawyer. 1,751,251; Mar. 18.

Cap, Knitted. P. Iwan. Des. 80,730; Mar. 18.

Capping machine, Bottle. J. Askey. 1,751,622; Mar. 18.

Car construction. S. B. Haseltine. 1,751,151; Mar. 18.

Car coupling. F. W. Henriksen. 1,751,154; Mar. 18.

Cars, Vestibule mounting for high-speed articulated. W. S. Adams and E. Latshaw. 1,751,300; Mar. 18.

Carburetor. V. R. Heftler. 1,750,889; Mar. 18.
Carburetor suction-release device. E. L. Grauel. 1,751,322; Mar. 18.
Carrier: *See*—
Ice carrier.
Case: *See*—
Plier case. Vanity case.
Casing, Heater. G. D. Wilkinson. Des. 80,761; Mar. 18.
Casing or similar article, Display-desk-appliance machine. W. A. Uttz, sr. Des. 80,760; Mar. 18.
Cement, Apparatus for applying refractory. L. Faber. 1,751,195; Mar. 18.
Ceramic materials, building elements, and the like from mud, Manufacturing. A. Loessin. 1,751,163; Mar. 18.
Chain, Bracelet. W. J. Roy. 1,750,786; Mar. 18.
Chair. A. J. Lehman. Des. 80,737; Mar. 18.
Chairs, Attachment for barbers'. C. W. Mobley. 1,751,014; Mar. 18.
Chamber or passageway for use in the reproduction of sound. S. J. Jackson. 1,751,409; Mar. 18.
Chandelier or similar article. O. Hoffmann. Des. 80,727; Mar. 18.
Cheese cutter. H. Cross and T. J. Slagle. 1,751,264; Mar. 18.
Chemical apparatus. W. H. Allen. 1,750,617; Mar. 18.
Chemical treatment of fibrous material, Apparatus for. W. W. McElrath. 1,751,165; Mar. 18.
Chimney. L. L. Blanchard. 1,751,026; Mar. 18.
Cigarette-making machine. M. Alland. 1,751,121; Mar. 18.
Circuit breaker, Automatic. W. Leyhausen. 1,750,895; Mar. 18.
Circuit breaker, Gravity-actuated. L. C. Kimsey. 1,751,005; Mar. 18.
Circuit breakers, Reclosing mechanism for. H. L. Sampson. 1,751,059; Mar. 18.
Circuit closer. W. J. Mulligan. 1,750,811; Mar. 18.
Circuit closer. H D Waltrip and R M. Horton. 1,750,738; Mar. 18.
Circuit interrupter. O. H. Eschholz. 1,751,233; Mar. 18.
Circuit, Telephone trunk. H. B. Johnson. 1,751,207; Mar. 18.
Circuit, Toll. L. L. Glezen, M. J. Stigers, and E. R. Taylor. 1,750,666; Mar. 18.
Circuits, Relay. C. I. Hall. 1,751,328; Mar. 18.
Circuits, Vacuum-tube. R. L. Davis and D. G. Little. 1,751,232; Mar. 18.
Clamp: *See*—
Auto case clamp. Vessel clamp.
Clasp: *See*—
Bracelet clasp.
Cleaner: *See*—
Air cleaner. Window cleaner.
Cleaner. H. Fuhrberg and C. T. Johnson. 1,750,838; Mar. 18.
Cleaning implement. T. J. McCaffrey. 1,751,415; Mar. 18.
Clinker shovel. A. Krisberg. 1,751,337; Mar. 18.
Clip: *See*—
Jointed clip. Urethral clip.
Closet: *See*—
Water-closet.
Closet. C. R. Crane, 2d. Des. 80,721; Mar. 18.
Closure. F. R. Eaglesfield. 1,750,631; Mar. 18.
Closure and gauge rod for oil tanks, Combined. A. M. Malluk. 1,750,849; Mar. 18.
Closure for bottles containing carbonated beverages, Valve-controlled. F. W. Hoban. 1,751,237; Mar. 18.
Clothes drier. L. Leitzenberger. 1,750,280; Mar. 18.
Clutch. E. E. Wemp. 1,750,828; Mar. 18.
CO_2 recorder. A. B. Cunningham. 1,751,265; Mar. 18.
Coal breaker. F. Pardee. 1,750,941; Mar. 18.
Coasting apparatus. C. E. Morris. 1,751,096; Mar. 18.
Coat tree, Automobile. G. L. Newman. 1,751,417; Mar. 18.
Cock, Ball. R. Martin. 1,751,046; Mar. 18.
Coin-controlled lock. A. Gabriel. 1,751,144; Mar. 18.
Coin-controlled mechanism. L. H. Morin. 1,751,246; Mar. 18.
Coin selector. J. E. Olvis. 1,750,686; Mar. 18.
Collar. M. A. Boix. 1,751,027; Mar. 18.
Combustion engine. J. Barletta. 1,750,918; Mar. 18.
Communication, Establishing. H. F. Jorgensen. 1,751,159; Mar. 18.
Commutator cleanser. K. Briel. 1,750,990; Mar. 18.
Compasses, Change of course detector for. E. C. Sparling. 1,751,110; Mar. 18.
Compressor, Air. J. J. Dilks, jr. 1,751,449; Mar. 18.
Concrete header blocks, Method of and apparatus for manufacturing. T. W. Caswell and G. A. Kelly. 1,751,028; Mar. 18.
Concrete molds, Agitator for. C. Jackson. 1,751,087; Mar. 18.
Confection package. A. C. Kappes. 1,751,208; Mar. 18.
Connecter, Electric. H. H. Wermine. 1,751,209; Mar. 18.
Constructional material. A. C. Fischer. 1,751,196; Mar. 18.
Container. M. Leisse. 1,751,341; Mar. 18.
Container, Merchandise-cover. W. E. Snaman. 1,750,821; Mar. 18.
Coutainers, Neck ring for compressed-gas. G. H. Zenner. 1,751,435; Mar. 18.
Control apparatus. A. Waltemath. 1,751,374; Mar. 18.
Control Automatic emergency. W. Hoff. 1,751,084; Mar. 18.
Control system for machine guns, Synchronized. R. C. Coupland. 1,750,706; Mar. 18.
Controller. J. Eaton. 1,751,400; Mar. 18.
Controlling device. A. J. Weatherhead, jr. 1,750,697; Mar. 18.
Cooler: *See*—
Liquid agitation cooler. Liquid cooler.
Cooling furnace walls. R. La France. 1,751,008; Mar. 18.
Cooling means for electrical and other apparatus. F. W. Gay. 1,750,750; Mar. 18.
Copper and the like, Welding. T. E. Murray, jr., and I. T. Bennett. 1,750,643; Mar. 18.
Cord, Bead. F. P. Atkins. 1,751,383; Mar. 18.
Cord, Floor. J. C. Belden. 1,751,386; Mar. 18.
Core bit, Rotary. M. S. Chamberlain. 1,750,744; Mar. 18.
Cotton gin. F. B. Cumpston. 1,751,305–6; Mar. 18.
Cotton-gin machine. F. B. Cumpston. 1,751,307; Mar. 18.
Cotton-gin machinery. F. B. Cumpston. 1,751,308; Mar. 18.
Cotton-gin ribs, Finishing. J. Behle. 1,750,741; Mar. 18.
Cotton picker. H. N. Berry. 1,750,952; Mar. 18.
Cotton picker. B. F. Watkins. 1,751,376; Mar. 18.
Cotter-pin spreader. J. McMullen. 1,751,013; Mar. 18.
Cotton tramper. E. A. Holmgreen. 1,751,332; Mar. 18.
Cotton-working machine. R. S. Curley. 1,751,133; Mar. 18.
Counter, Refrigerator. A. Malling. 1,751,285; Mar. 18.
Coupler and yoke connection. S. B. Haseltine. 1,751,150; Mar. 18.
Coupling: *See*—
Car coupling.
Coupling. L. S. Bessonett. 1,750,790; Mar. 18.
Cover, Manhole. C. N. Elsy. 1,751,104; Mar. 18.
Cover spring. C. B. Woodworth. 1,750,915; Mar. 18.
Covering machines, Box-form attachment for. F. A. Jones and G. W. Klaucke. 1,750,716; Mar. 18.
Covers of pneumatic tires, Appliance for vulcanizing. A. E. Burch. 1,751,392; Mar. 18.
Cranes, Boom-angle indicator for. E. H. Lichtenberg. 1,750,962; Mar. 18.
Current rectifier, Electric. S. Ruben. 1,751,360–3; Mar. 18.
Current regulator for electric lamps. C. L. Weichelt. 1,750,740; Mar. 18.
Curtain confiner. C. Rogers. 1,750,816; Mar. 18.
Curtain for automobiles, Adjustable. G. Harrold. 1,750,888; Mar. 18.
Cushioning device for doors and windows. J. Milhander. 1,750,781; Mar. 18.
Cutter: *See*—
Cheese cutter. Glass cutter.
Cutting and grinding mechanism. W. and E. Richards. 1,751,174; Mar. 18.
Cutting and mixing machine. C. Offenhauser. 1,750,645; Mar. 18.
Cutting device. H. W. Sherman. 1,751,293; Mar. 18.
Cutting machine, Tile. O. Walter. 1,750,737; Mar. 18.
Decorating material. W. G. Jopson. 1,750,844; Mar. 18.
Dental device. G. M. Hollenback. 1,750,804; Mar. 18.
Dental investment mixer. E. A. Nelson and C. E. Larson. 1,751,097; Mar. 18.
Denture. C. E. Bradley. 1,750,619; Mar. 18.
Depositor. H. D. Ayars. 1,751,384; Mar. 18.
Derrick, Tubular. J. J. Mitchell. 1,751,348; Mar. 18.
Designation device. E. C. Mueller, jr. 1,751,247; Mar. 18.
Desk set, Cradle-type, Telephone. R. F. Stehlik. 1,751,255; Mar. 18.
Detector: *See*—
Gas detector.
Dextrose, Making. W. B. Newkirk. 1,750,939; Mar. 18.
Dextrose, Manufacture of. W. B. Newkirk. 1,750,938; Mar. 18.
Diaphragm. A. P. Pinkler. 1,751,356; Mar. 18.
Dies used as in production of metal threads or wires, Mounting the. C. Archer. 1,751,382; Mar. 18.
Differential mechanism. E. Wildhaber. 1,750,981; Mar. 18.
Dispenser. H. J. Cocks. 1,751,129; Mar. 18.
Dispenser, Automatic liquid-fuel. C. Brahy. 1,751,073; Mar. 18.
Dispensing and cooling box, Beverage. H. R. Moosley. 1,750,675; Mar. 18.
Dispensing apparatus. H. J. Cocks. 1,751,128; Mar. 18.
Display apparatus. J. Eifel. 1,751,270; Mar. 18.
Display apparatus. L. R. McDonald. 1,750,642; Mar. 18.
Display case. M. M. Orr and C. E. Doxey. Des. 80,738; Mar. 18.
Display figure and making same. R. A. Freundlich. 1,751,273; Mar. 18.
Display or advertising device. W. M. Barry. 1,750,986; Mar. 18.
Ditching machine. A. Montano. 1,750,680; Mar. 18.
Doffing device. O. F. Bledsoe, jr. 1,751,389; Mar. 18.
Doll. J. L. Kallus. Des. 80,766; Mar. 18.
Doll. H. Ross. 80,742; Mar. 18.
Doll figure. F. Keeler. Des. 80,732–3; Mar. 18.
Doll's carriage and sound-producing means, Combined. L. Marx. 1,751,047; Mar. 18.
Dolls, Twin. E. S. Parson. Des. 80,739; Mar. 18.
Door for automobile bodies. J. Ledwinka. Re17,623; Mar. 18.
Door-lifting means. A. Wasberg and K. J. Tobin. 1,750,653; Mar. 18.
Door lock. W. R. Schlage. 1,751,101; Mar. 18.
Door lock. A. Wodarra. 1,751,184; Mar. 18.

Door lock, Coin-controlled. J. E. Olvis. 1,751,286; Mar. 18.
Door mechanism, Elevator. A. J. Rosentreter. 1,751,058; Mar. 18.
Door mechanism for railway cars. W. E. Wine and B. W. Kadel. 1,751,183; Mar. 18.
Doors and the like, Adjustable tightening device for. G. Wagner, F. Funke, and R. Heymanns. 1,751,373; Mar. 18.
Dough mixer and breaker. H. G. Fain. 1,750,710; Mar. 18.
Drapery pole end. W. A. Blake. Des. 80,719; Mar. 18.
Drawer slide. D. B. K. Van Raalte. 1,751,060; Mar. 18.
Drawing instrument. B. M. Shaub. 1,751,366; Mar. 18.
Dressing, Belt. G. Leone. 1,751,342; Mar. 18.
Drier: *See*—
Clothes drier. One-apron drier.
Drill attachment. C. D. Fowler. 1,750,957; Mar. 18.
Drilling apparatus, Well. C. S. Wright. 1,750,982; Mar. 18.
Drilling machines, Hydraulic feed mechanism for. J. Oakley. 1,750,684; Mar. 18.
Drills, Mount for percussive. G. M. Nell. 1,751,287; Mar. 18.
Drills, Shell mount for rock. F. Bayliff and G. M. Nell. 1,751,302; Mar. 18.
Drip pan. L. Mason. 1,751,344; Mar. 18.
Drive for motor vehicles. J. W. Christie. 1,751,394; Mar. 18.
Drive ring. E. St. John. 1,750,694; Mar. 18.
Driving and engine-truck box lubricator. G. W. Keller. 1,751,160; Mar. 18.
Drying apparatus. R. J. Anne. 1,751,023; Mar. 18.
Drying apparatus. E. Hopkinson. 1,750,753; Mar. 18.
Drying apparatus. A. T. Oakley and P. Lupke, jr. 1,750,813; Mar. 18.
Drying system. F. C. Farnsworth. 1,750,837; Mar. 18.
Educational appliance. F. H. Shelledy. 1,751,106; Mar. 18.
Educational device. T. E. Thompson. 1,750,977; Mar. 18.
Electric couple, Asymmetric. S. Ruben. 1,751,359; Mar. 18.
Electric couple, Asymmetric. S. Ruben. 1,751,460; Mar. 18.
Electric distribution system. A. E. Anderson. 1,751,380; Mar. 18.
Electric furnace. C. L. Ipsen. 1,751,408; Mar. 18.
Electric furnace. W. Keenan. 1,751,334; Mar. 18.
Electric switch. F. C. DeReamer and W. R. Young. 1,751,398; Mar. 18.
Electric switch. C. H. Sanderson. 1,751,364; Mar. 18.
Electrical instrument for diagnosing and assisting defective hearing. B. Langenbeck and H. Sell. 1,750,960; Mar. 18.
Electrical switching system. D. Cesareo. 1,751,263; Mar. 18.
Electrical tuning, Selective. H. N. Bliss. 1,750,660; Mar. 18.
Electrically-operated switch. S. S. Matthes. 1,751,164; Mar. 18.
Electroacoustic device. J. P. Minton and A. S. Ringel. 1,750,900; Mar. 18.
Electrodes, Manufacture of self-baking. M. O. Sem and C. W. Söderberg. 1,751,177; Mar. 18.
Electromagnetic blow-out device. R. E. Hellmund. 1,751,295; Mar. 18.
Electron-discharge apparatus. W. E. Paul. 1,751,418; Mar. 18.
Elevator: *See*—
Grain elevator.
Elevator. J. D. Spalding. 1,750,822; Mar. 18.
Emulsion. O. Röhm. 1,751,217; Mar. 18.
Engine: *See*—
Combustion engine. Internal-combustion engine.
Engine. L. M. Leonard. 1,751,281; Mar. 18.
Engine-draft regulator, Locomotive. K. Alse. 1,751,187; Mar. 18.
Engine mounting for automotive vehicles. R. Sardeson and F. J. La Mere. 1,751,100; Mar. 18.
Engines, Cleaning lubricant cases of. W. L. Osborne. 1,751,053; Mar. 18.
Engines, Cylinder head for internal-combustion. C. Ruegg. 1,750,729; Mar. 18.
Engines, Fuel injecting and igniting means for oil. E. A. Sperry. 1,751,254; Mar. 18.
Engines, Supercharging method for internal-combustion. G. Becker. 1,750,910; Mar. 18.
Engines, Vacuum-cleaner attachment for automobile. S. R. Gould. 1,750,800; Mar. 18.
Envelope, Duplex. W. H. Rife. 1,751,216; Mar. 18.
Evaporator element. G. W. Gail. 1,751,317; Mar. 18.
Explosive and process of manufacture. C. C. Ahlum. 1,751,064; Mar. 18.
Explosive and process of manufacture, Gelatinized. F. H. Bergeim. 1,751,437; Mar. 18.
Explosive and process of manufacture, Nitrated carbohydrate. P. G. Wrightsman. 1,750,949; Mar. 18.
Explosive and producing same, Nitrated carbohydrate. P. G. Wrightsman. 1,751,063; Mar. 18.
Explosive and producing the same, Nitrated carbohydrate. P. G. Wrightsman. 1,751,377; Mar. 18.
Explosive, Blasting. F. H. Bergeim. 1,751,436; Mar. 18.
Explosive, Producing an. M. Hahn. 1,751,326; Mar. 18.
Explosives, Making nitrated sugar. P. G. Wrightsman. 1,750,948; Mar. 18.
Extension table. W. P. Sauer. 1,750,968; Mar. 18.
Extractor for warp beams. O. J. Obermaier. 1,750,782; Mar. 18.
Fabric: *See*—
Building fabric.
Fastener, Bed-rail. P. M. Howse. 1,751,037; Mar. 18.
Fastener for wrist-watch bracelets. C. A. Mealy. 1,750,780; Mar. 18.
Fastener, Separable. G. Johnson. 1,751,239; Mar. 18.
Feeder, Poultry. C. E. Bircher. 1,751,388; Mar. 18.
Fence fixture, Highway-guard. R. G. Williams. 1,751,119; Mar. 18.
Fertilizer distributor. A. Mazak. 1,751,346; Mar. 18.
Filament-mounting machine. M. Wildeboer. 1,751,434; Mar. 18.
Filaments, Method and apparatus for mounting. R. G. Phelps. 1,751,419; Mar. 18.
File, Metal. L. P. Erb. 1,751,034; Mar. 18.
Filing device. E. A. Banschbach. 1,751,025; Mar. 18.
Film, Cinematograph. A. H. Smith. Re17,625; Mar. 18.
Film sprocket. F. H. Owens. 1,750,940; Mar. 18.
Film-winding mechanism for cinematograph apparatus. F. Cowie. 1,751,192; Mar. 18.
Films, Apparatus for the preparation of cinematographic. L. Caute. 1,750,704; Mar. 18.
Filter. L. De Markus and F. B. Leopold. 1,750,879; Mar. 18.
Filter, Acoustical-wave. H. C. Hayes. 1,751,035; Mar. 18.
Filter and filter element, Oil. M. A. Goldman. 1,751,000; Mar. 18.
Filter, Coffee. E. C. Delsuc. 1,751,397; Mar. 18.
Filter, Light. I. Shojl. 1,751,220; Mar. 18.
Filter, Liquid. H. Feldmeier. 1,750,997; Mar. 18.
Filter, Oil. O. A. Maunula and W. R. Rowland. 1,750,935; Mar. 18.
Fire bar. G. H. Collins. 1,751,395; Mar. 18.
Fire extinguisher. J. Raus. 1,750,859; Mar. 18.
Fire extinguisher, Portable. K. Schmidt. 1,751,218; Mar. 18.
Firing mechanism. G. M. McCann. 1,750,722; Mar. 18.
Fishing tackle. J. Hren. 1,750,842; Mar. 18.
Fixture, Curtain. H. D. Sevison. 1,751,105; Mar. 18.
Fixture for window shade, curtain, and drapery supports, Adjustable. C. A. Bunker. 1,751,126; Mar. 18.
Flash light, Focusing. L. G. Voorhees. 1,751,432; Mar. 18.
Flask: *See*—
Ingot-mold flask. Molding flask.
Flatiron construction. M. C. Bersted. 1,751,125; Mar. 18.
Flatiron, Electric. M. C. Bersted. 1,751,124; Mar. 18.
Flour and making same, Nonfibrous cellulose. E. R. Darling. 1,751,267; Mar. 18.
Fluid-control system. O. V. Kruse. 1,750,805; Mar. 18.
Flushing for water-closets. P. E. Georgiou. 1,751,145; Mar. 18.
Folding gate. L. G. Bradfield. 1,750,989; Mar. 18.
Footwear. A. Blain. 1,751,069; Mar. 18.
Friction material. R. J. Norton. 1,751,167; Mar. 18.
Fuel, Regulating. C. L. Stokes. 1,750,706; Mar. 18.
Fuel-saving device. W. E. Rothermel. 1,751,175; Mar. 18.
Furnace: *See*—
Electric furnace. Hearth furnace.
Hot-air furnace.
Furnace and operating the same, Calcining. E. Kühn. 1,751,161; Mar. 18.
Furnace construction. A. W. Bennis. 1,751,188; Mar. 18.
Fuse box. A. G. Steinmayer. Des. 80,752–3; Mar. 18.
Fuse, Percussion. N. E. Methlin. 1,750,723; Mar. 18.
Fuselage, Metal. E. B. Carns. 1,750,834; Mar. 18.
Garage light, Portable. H. C. Vooth. 1,750,870; Mar. 18.
Garment hanger. J. E. Franck. 1,751,198; Mar. 18.
Garter or similar article. A. G. Katsounakis. Des. 80,731; Mar. 18.
Gas constituents from gas mixtures, Recovering. M. Schroeder. 1,751,103; Mar. 18.
Gas containing hydrogen and carbon monoxide, Manufacture of combustible. G. Wietzel. 1,751,117; Mar. 18.
Gas detector. R. Kraus. 1,751,279; Mar. 18.
Gas detector, Compensated. C. A. Styer and W. M. Dann. 1,751,222; Mar. 18.
Gas heater. W. L. Sharp. Des. 80,749–51; Mar. 18.
Gate: *See*—
Folding gate.
Gauge: *See*—
Shingle gauge. Sluice gate.
Gauge for punches. L. E. Griswold. 1,750,929; Mar. 18.
Gear. H. U. Mitchell. 1,750,679; Mar. 18.
Gear for internal-combustion engines, Inlet-valve. E. Kägi. 1,751,240; Mar. 18.
Gear for lifeboats, Disengaging. P. B. Persson. 1,751,289; Mar. 18.
Gear mechanism, Automatic change. R. E. Boutet. 1,751,303; Mar. 18.
Gear mechanism, Power-reverse. E. C. Karibo, E. S. Pearce, and R. W. Retterer. 1,751,277; Mar. 18.
Gear wheel, Flexible. C. Bethel. 1,751,228; Mar. 18.
Glass and producing the same, Laminated. W. E. Nobbe. 1,751,051; Mar. 18.
Glass cutter. A. Vollm. 1,750,913; Mar. 18.
Glass feeder. L. D. Soubier. 1,750,973; Mar. 18.
Glass-feeding apparatus. E. T. Ferngren. 1,750,988; Mar. 18.

Glass, Method and apparatus for producing tubular. L. D. Soubier. 1,750,971; Mar. 18.
Glass, Making laminated. W. E. Nobbe. 1,751,052; Mar. 18.
Glass tank. L. Mambourg. 1,751,045; Mar. 18.
Glass tubing, Method and apparatus for forming. L. D. Soubier. 1,750,972; Mar. 18.
Goblet or similar article. E. J. Schaub. Des. 80,747; Mar. 18.
Goggles. N. M. Baker. 1,751,024; Mar. 18.
Gold separator. J. V. Rawlings. 1,750,860; Mar. 18.
Governor, Filling-machine. B. S. Harrington. 1,751,149; Mar. 18.
Grain elevator, Portable. L. B. Neighbour. 1,750,855; Mar. 18.
Grain, Grinding of bread. K. Dienst. 1,751,032; Mar. 18.
Grease gun. R. J. Gray. 1,751,323; Mar. 18.
Greensand or glauconite for the purpose of rendering it an efficient water-softening agent, Treating. F. K. Lindsay. 1,750,847; Mar. 18.
Grille for sound reproducer. I. Harris. Des. 80,725; Mar. 18.
Grinding machine. R. N. Heald, W. J. Guild, A. P. Burns, and G. E. Garno. 1,751,202–3; Mar. 18.
Grinding machine, Gear-. C. H. Schurr. 1,751,104; Mar. 18.
Guard for safety-razor blades. P. Müller. 1,751,215; Mar. 18.
Guide for locks. A. Hauser. 1,751,153; Mar. 18.
Gun sight. C. E. Lyman, jr. 1,750,676; Mar. 18.
Guns, Combined automatic breech closing and opening and loading mechanism for automatic. N. E. Methlin. 1,750,724; Mar. 18.
Halter, Rope. E. S. Beckwith. 1,751,226; Mar. 18.
Handle: *See*—
Mop handle.
Handle for tennis rackets and the like. H. W. Norton. 1,750,644; Mar. 18.
Handle grip. C. Marienthal. 1,751,414; Mar. 18.
Handle plate, Front-door. W. R. Schlage. Des. 80,748; Mar. 18.
Hanger: *See*—
Garment hanger. Stocking hanger.
Hanger for articles to be plated. L. Lichtman. 1,750,807; Mar. 18.
Harrows, Attachment for. H. Jess. 1,751,158; Mar. 18.
Headlight visor. J. A. Steele and J. D. Brandes. 1,751,111; Mar. 18.
Hearth furnace, Multiple-. E. J. Fowler and D. Baird. 1,751,142; Mar. 18.
Heat-controlling means for charge-forming devices. W. G. Heginbottom. 1,750,637; Mar. 18.
Heat-exchange device for food liquids. E. Schmid. 1,750,730; Mar. 18.
Heat-treating machine. W. A. Darrah. 1,750,924; Mar. 18.
Heater: *See*—
Liquid heater. Water heater.
Heater apparatus, Asphaltum-. H. H. Strietmann. 1,751,452; Mar. 18.
Heater-control mechanism, Liquid-. E. L. Fonseca. 1,750,749; Mar. 18.
Heating, Apparatus for. E. M. Freeland and F. McGough. 1,750,884; Mar. 18.
Heating device. S. M. Bielek. 1,751,387; Mar. 18.
Heating device, Gas-operated air-. G. Ducart. 1,751,399; Mar. 18.
Heating means for aeroplane wings to prevent accumulation of ice and snow, Electrical. W. S. Ingram. 1,750,777; Mar. 18.
Heating system and boiler construction. A. H. Swander. 1,751,297; Mar. 18.
Heating the air blast for furnaces and the like, Apparatus for. J. P. Dovel. 1,751,136; Mar. 18.
Heating unit, Electric. J. C. Musgrove. 1,751,416; Mar. 18.
Hectograph blanket. W. Hoskins, jr. 1,750,754; Mar. 18.
Heel lift. B. Gliowitz. 1,750,712; Mar. 18.
Heels, Dieing out rubber. A. J. Edwards. 1,750,708; Mar. 18.
Highway signal, Illuminated. V. P. Carter. 1,750,625; Mar. 18.
Hoisting device. G. M. Rix. 1,750,815; Mar. 18.
Holder and guard, Receptacle. M. Krischer. 1,750,672; Mar. 18.
Holder, Crayon and eraser. B. Towne. 1,750,912; Mar. 18.
Holder for disinfectants, deodorants, and the like. J. C. Vallebuona. 1,751,257; Mar. 18.
Holder for graphic instruments. E. Oldenbusch. 1,751,354; Mar. 18.
Holder for hammers, Sow-block. M. H. Damerell. 1,751,075; Mar. 18.
Holder, Machine-tool work. H. Deutsch. 1,750,746; Mar. 18.
Holder, Shade. L. C. Doane. 1,751,311; Mar. 18.
Holder, Spool. S. Kaiser. 1,751,003; Mar. 18.
Holder, Tool. I. Drowns. 1,751,078; Mar. 18.
Horn elbow, Sheet-metal. F. C. Jones. 1,751,002; Mar. 18.
Hose connecter head, Fire-. C. J. Diez. 1,750,927; Mar. 18.
Hose rack. C. Nuhring. 1,750,964; Mar. 18.
Hot-air furnace. H. Tielkemeyer. 1,750,824; Mar. 18.
Housing of air-cooling unit. H. D. Betz. Des. 80,763; Mar. 18.
Hub for agricultural machines and the like, Wheel. H. W. Robbins. 1,751,291; Mar. 18.
Ice carrier. J. H. Darneal. 1,751,031; Mar. 18.
Ignition and generating means for gasoline lamps. H. W. Resnick. 1,750,861; Mar. 18.
Indicator: *See*—
Street indicator. Water-level indicator.
Indicator for motor vehicles. W. Hueller. 1,751,206; Mar. 18.
Ingot-mold flask. V. Tope. 1,750,784; Mar. 18.
Inking device. E. O. Eckland and W. H. Young. 1,750,955; Mar. 18.
Inking mechanism for traveling cylinder presses. P. F. and J. L. Cox. 1,751,029; Mar. 18.
Insect trap. W. F. Cornelius and H. Jacobs. 1,751,130; Mar. 18.
Instrument scale plate. G. W. Sprenger. 1,751,426; Mar. 18.
Insulating bushing for electrical apparatus. A. Allan. 1,751,379; Mar. 18.
Insulating coating on aluminum or aluminum alloys. L. McCulloch. 1,751,213; Mar. 18.
Insulating material, Process and apparatus for making cellular. G. M. Thomson. 1,751,430; Mar. 18.
Insulations, Tie clamp for electric. R. G. Dickinson. 1,750,880; Mar. 18.
Insulator pin. A. O. Austin. 1,750,769–70; Mar. 18.
Insulators, Process and apparatus for testing. A. O. Austin. 1,750,699; Mar. 18.
Internal-combustion engine. G. P. Beaudry. 1,751,385; Mar. 18.
Internal-combustion engine. W. S. Cochrane. 1,751,443; Mar. 18.
Internal-combustion engine. C. L. Fry. 1,751,080; Mar. 18.
Iron from scrap, Making electrolytic. R. D. Pike 1,751,099; Mar. 18.
Ironing device, Domestic continuous. J. Snider. 1,750,908; Mar. 18.
Jack: *See*—
Automobile jack.
Jack. E. M. Pfauser. 1,751,056; Mar. 18.
Jack for fence-wire stretchers. J. M. Boyer. 1,751,190; Mar. 18.
Jacquard mechanism. G. Hunter. 1,750,670; Mar. 18.
Jamb, Adjustable door. W. P. Bright. 1,750,921; Mar. 18.
Jewelry, Metal unit for. F. W. Rettenmeyer. Des. 80,741; Mar. 18.
Jigger for use in the manufacture of articles from plastic materials. W. J. Miller. 1,750,762; Mar. 18.
Joint: *See*—
Expansion joint. Rail joint.
Joint or bearing, Self-aligning spherical. H. R. Ricardo. 1,751,357; Mar. 18.
Jointed clip. C. P. Nourse. 1,751,352–3; Mar. 18.
Keg-impregnating device, etc. C. Field. 1,751,140; Mar. 18.
Kit, Drawing. J. R. Swift. 1,751,308; Mar. 18.
Knife, Surgeon's. M. B. Behrman. 1,751,227; Mar. 18.
Knob and latch, Combined. F. Netschert. 1,750,812; Mar. 18.
Ladder foot, Extensible. T. G. Rice. 1,751,173; Mar. 18.
Lamp, Bed. A. Cowen. 1,750,993; Mar. 18.
Lamp, Electric. H. G. Martin, jr. 1,751,011; Mar. 18.
Lamp for beacon lights, Electric. E. Hurwitz. 1,751,407; Mar. 18.
Lantern. H. B. Patche. 1,750,856; Mar. 18.
Last, Hinged. W. Creese. 1,750,626; Mar. 18.
Latch, Closet-door. W. R. Schlage. 1,751,102; Mar. 18.
Latch mechanism, Door-. F. Koons, sr. 1,750,933; Mar. 18.
Lead chromate, Production of basic. A. Stewart. 1,751,295; Mar. 18.
Leakage, Preventing. H. Sauveur. 1,750,818; Mar. 18.
Leather-dressing process. O. L. Steven. 1,750,732; Mar. 18.
Light: *See*—
Garage light. Stop and tail light.
Lighting and ignition switch. H. E. Norviel. 1,750,683; Mar. 18.
Lighting fixture for show cases. O. W. Klingsick. 1,751,042; Mar. 18.
Lighting fixture, Tree. M. J. Courtney. 1,750,923; Mar. 18.
Lightning protection device, Condenser. A. O. Austin. 1,750,771; Mar. 18.
Liquid agitation cooler. C. J. Nagle. 1,750,726; Mar. 18.
Liquid cooler. J. G. King. 1,750,893; Mar. 18.
Liquid heater, Magnetic. R. R. Goshorn. 1,750,958; Mar. 18.
Liquid-reserve tank. R. H. Gillespie. 1,751,456; Mar. 18.
Load brake, Variable. J. N. Good. 1,750,685; Mar. 18.
Loading machinery. J. L. Clarkson. 1,750,876; Mar. 18.
Lock: *See*—
Coin-controlled lock. Door lock.
Nut lock.
Lock. A. Pollak. 1,750,858; Mar. 18.
Locking device for weighing scales. J. H. Brant. 1,750,623; Mar. 18.
Locomotive-smoke-box front. H. Glaenzer. 1,751,321; Mar. 18.
Looms, Automatic bobbin-changing mechanism for. N. I. Asaloff. 1,751,224; Mar. 18.
Looms, Warp-stop mechanism for. C. D. Brown. 1,751,304; Mar. 18.

Loose material, Method and apparatus for projecting. B. H. Schieldrop. 1,750,864; Mar. 18.
Loud-speaker unit. J. P. Quam. 1,750,648; Mar. 18.
Lubricating device. J. O. Lewis. 1,751,412; Mar. 18.
Lubricating device. A. M. Walstrom. 1,751,114; Mar. 18.
Lubricator: *See*—
Driving and engine truck. Pressure-feed lubricator.
box lubricator.
Lumber, Method of and apparatus for drying. C. A. Cutler. 1,750,794; Mar. 18.
Machine for cutting green corn from the cob. S. D. Noggle. 1,751,351; Mar. 18.
Machine for grinding chasers. R. E. Flanders. 1,750,956; Mar. 18.
Machine for making fashioned hosiery. J. Lawson. 1,751,450; Mar. 18.
Machine for making horseshoe nails. G. W. and G. M. Lange. 1,751,338; Mar. 18.
Machine for operating upon shoes. A. Eppler. 1,750,709; Mar. 18.
Machine for rolling beads in stovepipe casings. T. A. M. Petersen. 1,750,784; Mar. 18.
Magnesium and alloys thereof, Casting. J. E. Hoy. 1,751,038; Mar. 18.
Marcel waver. A. J. Janda. Re17,622; Mar. 18.
Marking device, Cloth-. F. Guth. 1,751,011; Mar. 18.
Matchmaking machine. L. Greenbaum and C. Gustavson. 1,751,146; Mar. 18.
Material-feeding device. J. E. Kennedy. 1,751,335; Mar. 18.
Matrix-setting and line-casting machine. J. Dornseth. 1,750,707; Mar. 18.
Measuring apparatus, Water-. W. A. Bremer. 1,750,872; Measuring pressures, Apparatus for. C. Warluzel. 1,751,375; Mar. 18.
Measuring tank, Automatic. G. E. Webb. 1,750,978; Mar. 18.
Measuring tank, Water-. G. E. Webb; 1,750,979; Mar. 18.
Mercury rectifier. L. T. Robinson. 1,751,423; Mar. 18.
Metal checks, Method and apparatus for electing. H. E. Wurzbach and L. H. Wadsworth. 1,751,120; Mar. 18.
Metal fabrics, Making. E. B. Carns. 1,750,831; Mar. 18.
Metal surfaces, Cleaning and protecting. J. C. Vignos. 1,750,651; Mar. 18.
Metals in electric furnaces, Producing. E. G. T. Gustafsson. 1,751,083; Mar. 18.
Meter: *See*—
Watt-hour meter.
Meter. C. M. Anderson. 1,751,021; Mar. 18.
Mill: *See*—
Pulverizer mill.
Milling machine. J. W. Goetz and L. J. Radermacher. 1,750,885; Mar. 18.
Mittering machine for printers, Power-driven. E. P. Ehrlinger. 1,751,137; Mar. 18.
Mixer: *See*—
Dental investment mixer.
Mixing apparatus. A. B. and C. R. Smith. 1,751,221; Mar. 18.
Mold for retreading tires, Adjustable. F. L. Smith, J. S. Caufield, and C. J. Peterson. 1,750,867; Mar. 18.
Molding flask. J. R. Swift. 1,751,369; Mar. 18.
Mop. C. O. Morgan. 1,751,340; Mar. 18.
Mop handle, Floor-. O. J. Holen. 1,750,930; Mar. 18.
Motor: *See*—
Universal motor.
Motor. J. W. Bishop. 1,750,920; Mar. 18.
Motor control, Synchronous-. F. L. Stone. 1,751,427; Mar. 18.
Motor-control system. J. A. Hepperlen. 1,751,404; Mar. 18.
Motors, Controller for electric. W. C. Kennedy. 1,750,892; Mar. 18.
Mounting means for snap fasteners. M. V. Clark and C. F. Clark. 1,750,992; Mar. 18.
Mounting, Traversing-roll. J. W. Smith. 1,751,108; Mar. 18.
Moving objects, Determining movement and position of. E. I. Green. 1,750,668; Mar. 18.
Mower, Lawn. C. H. Peel. 1,751,054; Mar. 18.
Musical apparatus. J. C. Bostelmann, jr. 1,750,988; Mar. 18.
Musical instrument. H. G. Beyer. 1,750,791–2; Mar. 18.
Musical instrument, Stringed. J. Dopyera. 1,750,881; Mar. 18.
Musical instrument, Stringed. W. I. Kirk. 1,750,843; Mar. 18.
Nail-bedding machine for clog making. G. Chiasson. 1,750,705; Mar. 18.
Nest, Trap. A. O. and P. M. Forster. 1,751,144; Mar. 18.
Nitrated bodies, Treating. J. V. Skoglund. 1,751,367; Mar. 18.
Nitrated sorbitol. F. H. Bergeim. 1,751,438; Mar. 18.
Nozzle construction. C. R. Waller. 1,750,652; Mar. 18.
Nozzle spray, Pulverized-fertilizer. A. E. Lowe. 1,751,283; Mar. 18.
Nut, Lock. P. W. Dieter. 1,750,925–6; Mar. 18.
Nut lock. N. Sutcliffe. 1,751,296; Mar. 18.
Oil and gas separator. J. R. Sullivan. 1,751,017; Mar. 18.
Oil can. P. Fountaine. 1,751,314; Mar. 18.
Oil filler. M. L. Carpentier. 1,751,440; Mar. 18.
Oil System for the combustion of. G. Gontard. 1,751,236; Mar. 18.
Oil-well delivery apparatus. T. J. Miller. 1,751,347; Mar. 18.
Oil wells, Apparatus for flowing. T. A. Beecher. 1,750,951; Mar. 18.
Oiling system for deep-well turbine pumps, Automatic. R. M. Magnuson. 1,750,898; Mar. 18.
Oils, Apparatus for cracking. W. S. Hadaway, jr. 1,751,148; Mar. 18.
Oils, Continuous distillation of heavy hydrocarbon. R. E. Wilson. 1,751,182; Mar. 18.
Oils from vegetable matter, Extraction of. I. S. Hocker. 1,751,331; Mar. 18.
One-apron drier. F. L. Furbush. 1,750,839; Mar. 18.
Ophthalmic mounting. E. J. R. Beattey. 1,750,987; Mar. 18.
Ophthalmic mounting. G. H. Day. 1,750,630; Mar. 18.
Ophthalmic mounting. J. N. Nelson. 1,750,963; Mar. 18.
Ophthalmic mounting. W. R. Olsen. 1,750,685; Mar. 18.
Ophthalmometer. G. A. H. Kellner and W. B. Rayton. 1,750,931; Mar. 18.
Optical apparatus for projecting illuminated signs upon screens. C. E. Randall and L. R. Thompson. 1,750,785; Mar. 18.
Oscillograph, Cathode-ray. R. Brown. 1,750,661; Mar. 18.
Oven. H. F. Maurel. 1,750,721; Mar. 18.
Packaged playing ball. J. R. Gammeter. 1,751,275; Mar. 18.
Packaging machine, Automatic. T. A. Hill. 1,751,157; Mar. 18.
Packing. P. H. Granger. 1,750,886; Mar. 18.
Pad: *See*—
Railway pad.
Pan: *See*—
Baking pan. Drip pan.
Paper-making machines, Moisture-content tester for. C. A. Upson. 1,751,179; Mar. 18.
Paper, Method of and apparatus for making. J. Traquair. 1,751,256; Mar. 18.
Pavement. R. H. Smith. 1,751,109; Mar. 18.
Pencil, Lead. E. F. Pierce and J. D. Dickinson. 1,750,647; Mar. 18.
Percolator, Coffee. C. C. Armstrong. Des. 80,717; Mar. 18.
Phonograph record. I. E. Neft. 1,751,166; Mar. 18.
Photographic images, Obtaining. E. Gay. 1,751,318; Mar. 18.
Photographic prints, Drying of. S. J. N. Lloyd. 1,750,674; Mar. 18.
Picker: *See*—
Cotton picker.
Picture apparatus, Motion-. R. P. De Vault. Re17,626; Mar. 18.
Pictures, Apparatus for producing distorted. G. W. Ford. 1,750,883; Mar. 18.
Pin: *See*—
Insulator pin.
Pipe-handling apparatus for derricks. C. M. Gidley. 1,750,798; Mar. 18.
Pipes or sheaths, Apparatus for jointing lead or like. A. E. Wilson. 1,751,019; Mar. 18.
Piston. W. Mels. S. Jackson. 1,750,638; Mar. 18.
Piston construction. E. Davis. 1,751,445; Mar. 18.
Piston, Expanding. G. W. Galloway. 1,750,928; Mar. 18.
Piston ring. D. M. Solenberger. 1,751,253; Mar. 18.
Pit apparatus, Drop-. F. L. Davis, jr. 1,751,076; Mar. 18.
Plaiting machines, Automatic spacing device for. G. and R. Ezbelent. 1,751,401; Mar. 18.
Planer and concrete distributing machine, Subgrade. E. H. Lichtenberg. 1,750,896; Mar. 18.
Plaster wall board and making same. H. E. Brookby. 1,750,621; Mar. 18.
Plastic material to surfaces, Method and apparatus for applying. J. R. Mack. 1,751,343; Mar. 18.
Plastic substance, Method and apparatus for making articles from a. S. H. Edmunds. 1,750,748; Mar. 18.
Plate or similar article. U. Tomita. Des. 80,754–7; Mar. 18.
Plier case. E. F. Jungemann. 1,750,891; Mar. 18.
Plows, Rotary tiller attachment for disk. G. H. Hall. 1,750 887; Mar. 18.
Plug, Fuse. G. R. Brown. 1,751,439; Mar. 18.
Plug, Fuse. E. F. Pelletier and W. E. Bandlow. 1,751,055; Mar. 18.
Pneumatic-dispatch-tube system. E. Weigele. 1,751,115; Mar. 18.
Poke, Electric animal. C. F. Faulhaber. 1,751,313; Mar. 18.
Potato separator. W. G. Bunker. 1,751,391; Mar. 18.
Pottery, Automatic means for turning and finishing ware in the manufacture of. W. J. Miller. 1,751,040; Mar. 18.
Power-driven wrench. H. A. Thompson. 1,750,825; Mar. 18.
Power-generating system and operating the same. J. Kemnal. 1,751,004; Mar. 18.
Power mechanism for controlling the reverse gears of locomotives. E. C. Karlbo, E. S. Pearce, and R. W. Retterer. 1,751,276; Mar. 18.
Power swing mechanism for paver booms. J. Daniel. 1,751,206; Mar. 18.
Power system, Steam-. D. S. Jacobus. 1,751,238; Mar. 18.
Press: *See*—
Screw press.
Pressure-feed lubricator. W. Kramer. 1,750,701; Mar. 18.
Pressure-operated regulator. E. J. Dillman. 1,751,193; Mar. 18.

Projecting apparatus. S. Stark. 1,750,910; Mar. 18.
Propelling means for dirigible airships. J. W. Silver. 1,750,765; Mar. 18.
Protective device. W. J. Stanton. 1,750,909; Mar. 18.
Puller: *See*—
Wheel puller.
Pulley construction. W. D. Hammerstadt. 1,750,752; Mar. 18.
Pulsator for milking machines. E. A. Forsberg. 1,750,634; Mar. 18.
Pulverized mill. R. O. Groman. 1,750,636; Mar. 18.
Pulverizing machine. W. K. Liggett. 1,751,009; Mar. 18.
Pump. L. Schafran. 1,750,989; Mar. 18.
Pump, Boiler-feed. R. E. White. 1,750,980; Mar. 18.
Pump, Compressed-air. C. C. Martin. 1,750,719; Mar. 18.
Pump for mixing oil and air. J. R. Kinney. 1,751,006; Mar. 18.
Pump, Multiple-cyclinder reciprocating water. C. I. Longenecker. 1,751,413; Mar. 18.
Pump plunger. F. W. Moyer and F. J. Reninger. 1,751,350; Mar. 18.
Push and pull bar. O. G. Seidensticker. Des. 80,744; Mar. 18.
Pusher head, Manipulator. P. McShane. 1,751,245; Mar. 18.
Rack: *See*—
Hose rack.
Sheet-metal rack.
Rack for supporting articles to be electro-plated. L. Lichtman. 1,750,808; Mar. 18.
Racket for tennis and like games, All-metal. H. W. Norton. 1,750,727; Mar. 18.
Radiator. J. R. Hughes. Des. 80,728; Mar. 18.
Radiator, Electrically-heated. J. F. Skold. 1,750,907; Mar. 18.
Radiator, Heating. J. G. Engelhart. 1,751,033; Mar. 18.
Radiator-shutter-control structure. B. R. Bennett. 1,750,618; Mar. 18.
Radio apparatus. A. Gollos. 1,751,081; Mar. 18.
Radio receiving system. T. Gongora, Jr. 1,751,235; Mar. 18.
Radio transmitting apparatus. J. F. Farrington. 1,751,271; Mar. 18.
Rail joint, Railway-. S. H. Griffiths. 1,750,775; Mar. 18.
Railroad tie. W. R. Hewitt. 1,751,156; Mar. 18.
Railway equipment, Electric. R. G. Williams. 1,751,118; Mar. 18.
Railway pad. R. E. Tupper. 1,750,735; Mar. 18.
Rapping machine for dust collectors. M. A. Eiben. 1,751,138; Mar. 18.
Reamer, Rotary. A. Boynton. 1,750,953; Mar. 18.
Recorder: *See*—
CO_2 recorder.
Recording apparatus. R. Royal. 1,750,863; Mar. 18.
Recuperator. G. D. Mantle and T. W. Munford. 1,750,850; Mar. 18.
Reflector and mounting therefor, Signal-light. J. Vons. 1,750,947; Mar. 18.
Reflector for automobiles. E. R. Boots, R. W. Luce and V. L. Oestnaes. 1,751,070; Mar. 18.
Refrigerating apparatus. J. R. Febr. 1,750,882; Mar. 18.
Refrigeration, Apparatus for. C. E. Molesworth, J. Dudman, and C. G. Zokelt. 1,750,763; Mar. 18.
Refrigerator. A. A. Kucher. 1,751,209; Mar. 18.
Regulator: *See*—
Engine draft regulator.
Pressure-operated regulator.
Window regulator.
Regulator system. J. H. Ashbaugh. 1,751,225; Mar. 18.
Relay, Electrical. H. E. Ashworth and B. Lazich. 1,750,658; Mar. 18.
Relay system. F. Hirt. 1,751,330; Mar. 18.
Resinous condensation product from lignin and furfural. M. Phillips. 1,750,903; Mar. 18.
Resistance unit, Variable. B. W. David. 1,751,231; Mar. 18.
Retort, kiln, or drum, Rotary. G. Cantieny. 1,751,127; Mar. 18.
Rheostat, Lamp-socket. C. L. Welchelt. 1,750,739; Mar. 18.
Rifle range. R. W. Stewart. 1,750,823; Mar. 18.
Rim for vehicle wheels. L. E. La Brie. 1,750,673; Mar. 18.
Ring: *See*—
Drive ring.
Piston ring.
Ring. A. Sager. Des. 80,743; Mar. 18.
Rocker, Child's reciprocating. A. C. Rohm, jr. 1,750,862; Mar. 18.
Rubber and products obtained thereby, Treating aqueous dispersions of. M. C. Teague. 1,750,767; Mar. 18.
Scaffold construction. C. R. Uris. 1,750,869; Mar. 18.
Scaffold raising and lowering device. J. F. Costello. 1,751,131; Mar. 18.
Scoring wheel. C. S. Lenston. 1,750,718; Mar. 18.
Screen: *See*—
Automobile screen.
Window screen.
Weil screen.
Screw driver and nut holder. W. Stever. 1,751,112; Mar. 18.
Screw press. F. V. and R. T. Anderson. 1,750,916; Mar. 18.
Seat and locking device, Rumble. J. R. Zalden. 1,751,378; Mar. 18.
Seat for automotive vehicles, Convertible. E. L. Jacoby. 1,751,088; Mar. 18.
Seat structure. E. C. Harter. 1,751,152; Mar. 18.
Separating device. G. G. Cheakas and J. H. Martin. 1,750,922; Mar. 18.
Separator: *See*—
Gold separator.
Oil and gas separator.
Potato separator.
Separator. F. M. Schaefer. 1,750,764; Mar. 18.
Shackle, Column. M. E. De Mone. 1,751,309; Mar. 18.
Shackle snap, Safety. J. J. Van Valkenburg. 1,751,458; Mar. 18.
Shaker, Cocktail. R. W. H. Fox. 1,751,315; Mar. 18.
Shaker, Salt or pepper. A. J. Flauder. Des. 80,723; Mar. 18.
Sharpening device for lawn mowers. B. J. Alison. 1,751,020; Mar. 18.
Sharpening device, Punch-. S. N. Tebander. 1,751,113; Mar. 18.
Sheet-metal rack. W. N. Vanec. 1,750,696; Mar. 18.
Shield, Shampoo. M. Morgan. 1,750,937; Mar. 18.
Shingle gauge. F. L. Nelson. 1,750,854; Mar. 18.
Ships, Stabilizing device for. M. Kéfél. 1,751,278; Mar. 18.
Shock absorber. F. T. Elliott. 1,750,996; Mar. 18.
Shock absorber. H. O. Fletcher. 1,750,711; Mar. 18.
Shock absorber for oil-well pump rods. F. C. Baker. 1,750,917; Mar. 18.
Shocker, Vine-crop. C. E. Lee. 1,751,243; Mar. 18.
Shoe. F. G. Hooke and J. J. Flynn. 1,751,036; Mar. 18.
Shoe, R. A. Selby. Des. 80,746; Mar. 18.
Shoe and making same. H. Lifschutz. 1,751,282; Mar. 18.
Shovel: *See*—
Clinker shovel.
Shutter, Vignetting. A. Wollensak. 1,750,830; Mar. 18.
Sifter. W. K. Sturrock. 1,750,976; Mar. 18.
Sign. J. J. Darby. 1,751,455; Mar. 18.
Sign, Changeable. F. L. Holt. 1,750,714; Mar. 18.
Sign, Road. O. A. Rystrom. 1,751,176; Mar. 18.
Sign, Sheet-metal. A. A. Kramer. 1,750,894; Mar. 18.
Signal: *See*—
Highway signal.
Wigwag stop signal.
Signal box. T. O'Donnell. 1,751,168; Mar. 18.
Signaling system. W. L. Edison. 1,750,954; Mar. 18.
Signaling system. R. K. Potter. 1,750,088; Mar. 18.
Signature-stitching machines, Delivery mechanism for. E. W. Belluche. 1,750,622; Mar. 18.
Silo, Portable. S. D. Ruth. 1,751,250; Mar. 18.
Sitz bath, Combined. J. Wenischniger. 1,751,180; Mar. 18.
Skate-runner support and making same. G. E. Schmidt. 1,750,689; Mar. 18.
Skate runners and process, Tubular support for. G. E. Schmidt. 1,750,690–1; Mar. 18.
Skeleton structure such as aircraft fuselage. F. Sigrist and S. Camm. 1,750,692; Mar. 18.
Sled, Self-propelled. C. Schubert. 1,751,252; Mar. 18.
Slicing machine. W. J. Campbell. 1,750,662; Mar. 18.
Slipper. S. Bernfeld. Des. 80,718; Mar. 18.
Sluice gate, Water-regulating. F. Newell. 1,750,901; Mar. 18.
Smelting process. F. Wüst. 1,751,185; Mar. 18.
Soap solution, Apparatus for making. R. M. Bagley. 1,751,301; Mar. 18.
Socket, Lamp. S. Osteman. 1,750,965; Mar. 18.
Socket, Slip. E. J. Shaffer. 1,750,906; Mar. 18.
Socket, Three-way current tap. E. Clemence. 1,751,442; Mar. 18.
Sound-deadening plate and making same. W. Genest. 1,751,320; Mar. 18.
Sound reproducer, Electromagnetic. G. Maehren. 1,751,284; Mar. 18.
Spear. N. Lamoureux. 1,751,090; Mar. 18.
Spoon or similar article. G. P. Ittig. Des. 80,762; Mar. 18.
Spraying machine. L. C. and W. A. Jannsen. 1,751,039; Mar. 18.
Spring. W. G. Wilson. 1,751,261; Mar. 18.
Spring structure, Leaf-. J. S. Reid. 1,751,171; Mar. 18.
Spring structures, Assembling. G. O. Brandt. 1,751,072; Mar. 18.
Sprinkler. T. Matsui. 1,751,345; Mar. 18.
Stand: *See*—
Watch stand.
Stand. A. C. Hayden. 1,750,803; Mar. 18.
Starch, Manufacture of. F. L. Jefferies. 1,750,756; Mar. 18.
Stay bolt, Steam-boiler. A. F. Pitkin. 1,750,687; Mar. 18.
Steam boiler. G. W. Bach. 1,750,985; Mar. 18.
Steam boiler. C. B. Little. 1,751,092; Mar. 18.
Steel abrasive material, Producing. S. D. Layton. 1,751,340; Mar. 18.
Steel, Apparatus and process for tempering. A. O. Dennis. 1,751,269; Mar. 18.
Stile for window frames, Movable. H. M. Steinmetz. 1,750,974; Mar. 18.
Stocking hanger. H. Schlipp. 1,750,905; Mar. 18.
Stop and tail light, Combination. W. C. Dorman. 1,750,994; Mar. 18.
Store, Self-serving. J. N. Grant. 1,751,199; Mar. 18.
Stove. F. H. Hayes. Des. 80,726; Mar. 18.
Stove and attachment, Electric. V. A. Kincannon. 1,751,241; Mar. 18.
Stove and fuel connection, Reversible. L. Moore and C. M. Dibble. 1,751,095; Mar. 18.
Stoves, Construction of. G. S. Morley. 1,750,853; Mar. 18.

Street indicator. M. M. Finn. 1,750,999; Mar. 18.
Stretching the material for handkerchief embroidery in the shuttle embroidery machine, Apparatus for. E. Straub. 1,751,428; Mar. 18.
Stringed instrument, Self-playing. B. Radtkea. 1,751,248; Mar. 18.
Sucker-rod guide. E. C. Meier. 1,750,851; Mar. 18.
Suction-producing mechanism. C. C. Bradbury. 1,750,742; Mar. 18.
Sugar, Ultrafine, soft granulated sucrose. B. H. Varnau and T. B. Wayne. 1,751,298; Mar. 18.
Sulphur, Producing elemental. R. C. Benner and A. P. Thompson. 1,751,066–8; Mar. 18.
Support and curtain-rod bracket, Combined valance-board. J. M. Wintrob. 1,751,062; Mar. 18.
Support, Box-tray. W. L. Buedlingen. 1,750,624; Mar. 18.
Support for campers' cots, Net. H. L. Race. 1,751,290; Mar. 18.
Support, Garment. J. E. Dallimore. 1,751,030; Mar. 18.
Support, Temporary pipe. J. L. Schaller. 1,750,819; Mar. 18.
Supports of articles such as furniture and the like. F. Meng. 1,750,678; Mar. 18.
Supporter, corselet, corset, and the like, Breast. J. Lindauer. 1,751,212; Mar. 18.
Supporting structure for concrete construction. J. C. Kepple. 1,750,760; Mar. 18
Sweeper, Carpet. W. E. Sherbondy. 1,750,944; Mar. 18.
Sweeper, Gutter-broom street. F. D. Wilson. 1,750,829; Mar. 18.
Swing or similar article. A. J. Lehman. Des. 80,736; Mar. 18.
Switch: *See*—
Automatic switch.
Electric switch.
Electrically-operated switch.
Lighting and ignition switch.
Switch. A. G. Steinmayer. 1,750,693; Mar. 18.
Switch. H. E. Kempton and K. F. Gallimore. 1,751,204; Mar. 18.
Switch contact finger A. Cohn and A. Kummel. 1,751,444; Mar. 18.
Switch for automatic telephone systems, Selector. C. A. W. Hultman. 1,751,406; Mar. 18.
Switch mechanism. H. K. Krantz. 1,751,242; Mar. 18.
Switch mechanism, Electric. W. K. Rankin. 1,751,420; Mar. 18.
Switch rail for monorail suspended railways. O. Haferkorn. 1,750,802; Mar. 18.
Syringes, Power drive for. S. Feinstein. 1,751,139; Mar. 18.
Table: *See*—
Extension table.
Talking machine. M. De Wrangell. 1,751,310; Mar. 18.
Talking machine. A. F. Larson. 1,751,162; Mar. 18.
Tank: *See*—
Glass tank.
Measuring tank.
Liquid-reserve tank.
Taping machine for box blanks. L. H. Schroeder. 1,750,943; Mar. 18.
Target for amusement devices. W. A. Tratsch. 1,750,945; Mar. 18.
Tea, Flavoring. L. Aronson and A. Feldblet. 1,750,768; Mar. 18.
Teeth, Production of artificial. K. Taeschner. 1,751,178; Mar. 18.
Telephone cable circuits, Interquad capacity balancing of. H. Jordan and R. Goldschmidt. 1,751,333; Mar. 18.
Telephone system. C. E. Lomax. 1,750,934; Mar. 18.
Telephone system, Automatic. F. Lubberger and M. Langer. 1,750,848; Mar. 18.
Telephone system, Automatic. J. Wicks. 1,751,260; Mar. 18.
Telephone system, Automatic and semiautomatic. R. Trechcinski. 1,751,431; Mar. 18.
Telephone system, Manual. J. H. Levis, jr. 1,750,806; Mar. 18.
Temperature control for glass, Automatic. J. F. Rule. 1,750,966; Mar. 18.
Temperature of molten glass, Automatically controlling the. J. F. Rule. 1,750,967; Mar. 18.
Temperature-regulating apparatus. F. A. and H. A. Taylor. 1,751,370; Mar. 18.
Terminal and making same. A. F. Herman. 1,751,405; Mar. 18.
Terminal for electric wires. O. H. Brown. 1,750,793; Mar. 18.
Terminal, Switch. M. Guett. 1,751,325; Mar. 18.
Thermostat. G. W. Gall. 1,751,319; Mar. 18.
Thiocyanates of the alkaline-earth metals, Obtaining. R. R. Fulton. 1,751,274; Mar. 18.
Thread protector. J. P. Leonard. 1,751,210; Mar. 18.
Tie: *See*—
Railroad tie.
Tip. W. A. Vollmer. 1,751,372; Mar. 18.
Toaster. B. A. Lapin. Des. 80,734; Mar. 18.
Tobacco, Casing. H. P. Wurman. 1,750,656; Mar. 18.
Toilet, Sanitary. F. M. McHenry and T. S. Wilkes. 1,751,012; Mar. 18.
Tong. W. E. Root. 1,750,817; Mar. 18.
Tongs. W. G. Heny and E. G. Schutz. 1,751,155; Mar. 18.
Tonsillotome. A. C. Campbell. 1,750,874; Mar. 18.
Tool, Automatic machine. W. S. Davenport and W. A. Thomas. 1,750,836; Mar. 18.
Tool, Clip-applying. G. O. Brandt. 1,751,071; Mar. 18.
Tool, Fluid-operated reciprocating machine. J. L. and A. T. Holman. 1,750,890; Mar. 18.
Tool for removing caps from jars. J. Schleinzer. 1,750,820; Mar. 18.
Tool for removing glass and other objects from automobiles. C. O. Willams. 1,751,181; Mar. 18.
Top and dice game, Arithmetical. V. D. Brittingham. 1,750,620; Mar. 18.
Torch structure. C. F. Lambert. 1,750,846; Mar. 18.
Torches, Auxiliary jet cutting tip for cutting. C. J. Coberly. 1,751,191; Mar. 18.
Toy. G. Trumpf. Des. 80,759; Mar. 18.
Toy dog. J. L. Kallus. Des. 80,767; Mar. 18.
Toy, Picture. C. Bustamante. 1,750,991; Mar. 18.
Track level and gauge, Combined. J. E. Busby. 1,751,393; Mar. 18.
Traffic-controlling apparatus, Railway-. L. O. Grondahl. 1,750,801; Mar. 18.
Train-wire device, Electric. C. C. Farmer. 1,750,633; Mar. 18.
Transformer. F. J. Vogel. 1,751,223; Mar. 18.
Transmission mechanism. K. J. Strigl. 1,750,787; Mar. 18.
Trap: *See*—
Insect trap.
Tray and stand, Combined ash. L. Hoffberg. Des. 80,765; Mar. 18.
Truck. R. D. Marx. 1,750,677; Mar. 18.
Truck and the like, Industrial. L. B. Jones. 1,750,639; Mar. 18.
Truck construction. O. W. Fry. 1,750,665; Mar. 18.
Truck, Railway. O. K. Kjolseth. 1,751,330; Mar. 18.
Tubular articles, Method of and apparatus for forming heads on. R. K. Hopkins. 1,751,085; Mar. 18.
Tubular member. E. B. Carns. 1,750,833; Mar. 18.
Tunnels with concrete and apparatus therefor, Lining. R. C. Hackley. 1,751,147; Mar. 18.
Turbine, High-pressure steam. W. Pape. 1,750,814; Mar. 18.
Turning and beading machine. W. Kirchner and F. J. Sheldon. 1,750,932; Mar. 18.
Uncoupling device for railway cars. E. Jones. 1,751,040; Mar. 18.
Undergarment. H. V. Oldham. 1,751,355; Mar. 18.
Undereamer. Expansible. R. R. Crum. 1,750,627–9; Mar. 18.
Universal motor. B. L. Conley. 1,750,745; Mar. 18.
Urethral clip. R. H. Wappler. 1,750,654; Mar. 18.
Valve. J. J. Barker. 1,751,122; Mar. 18.
Valve-actuating mechanism. J. McNulty. 1,751,244; Mar. 18.
Valve and valve-operating mechanism. G. D. Reinhardt. 1,751,172; Mar. 18.
Valve closer, Automatic needle-. P. Keronanton. 1,751,041; Mar. 18.
Valve, Compressor. A. J. Briggs. 1,751,230; Mar. 18.
Valve-control system. E. W. Orton and C. V. Foulds. 1,751,098; Mar. 18.
Valve, Dry-pipe. L. A. Grimes. 1,751,201; Mar. 18.
Valve, Engine. L. E. Edwards. 1,750,995; Mar. 18.
Valve, Engine. W. M. Stich, jr. 1,750,975; Mar. 18.
Valve for hydrocarbon-fuel-storage tanks, Water-locking suction. J. H. Viele. 1,751,371; Mar. 18.
Valve for water softeners. B. H. Ter Beest. 1,751,061; Mar. 18.
Valve, Heater. E. E. Campbell. 1,751,441; Mar. 18.
Valve mechanism for internal-combustion engines, Rotary. A. F. Stuart. 1,750,733; Mar. 18.
Valve, Safety. C. F. Heywood. 1,751,457; Mar. 18.
Valves, Safety attachment for gas. E. Krause. 1,751,044; Mar. 18.
Vanity case. D. H. Zell. 1,750,983–4; Mar. 18.
Vat color dyeing. F. L. Remlein. 1,750,942; Mar. 18.
Vehicle. G. W. Franklin. 1,751,316; Mar. 18.
Vehicle brake. C. H. Taylor. 1,750,788; Mar. 18.
Vehicle, Road. D. B. Cook. 1,751,074; Mar. 18.
Vehicle wheel. J. H. Hunt and G. M. Evans. 1,751,086; Mar. 18.
Vending machine. L. E. Parker. 1,751,169; Mar. 18.
Veneer for artificial teeth, Carved. F. C. Miller. 1,750,810; Mar. 18.
Ventilating and humidifying system. G. T. Markey. 1,751,093; Mar. 18.
Ventilating arrangement for dynamo-electric machines. H. Rosenthal. 1,751,424; Mar. 18.
Ventilating device, Shoe-. R. H. Schwalm. 1,750,970; Mar. 18.
Ventilating system. E. S. Buck and L. B. Mettler. 1,750,873; Mar. 18.
Ventilator. E. A. Thompson. 1,750,789; Mar. 18.
Vessel clamp. E. E. Drumm. 1,751,079; Mar. 18.
Vessel, Hydroplane. S. Lake. 1,750,939; Mar. 18.
Vibration dampener. E. E. Wemp. 1,750,827; Mar. 18.
Violin practice finger board. W. O. Miessner. 1,751,048; Mar. 18.
Vise. H. H. Hancock. 1,751,329; Mar. 18.
Voltage-regulation winding for electric generators. E. A. Hobart. 1,750,713; Mar. 18.
Wall bracket for lighting fixtures. A. Lazerson. Des. 80,735; Mar. 18.
Wall construction. O. Nilsson. 1,751,050; Mar. 18.

Wall joints, Finishing. R. E. Haire and G. M. Thomson. 1,751,327; Mar. 18.
Warmer, Thumb and finger. C. Schaaf. 1,751,365; Mar. 18.
Washbasin appliance. C. Spital. 1,751,294; Mar. 18.
Washing machine. C. C. Cammack. 1,751,446; Mar. 18.
Washing machine. F. J. Lasar. 1,750,961; Mar. 18.
Watch stand. F. X. Mantsion. 1,751,286; Mar. 18.
Water, Biological purification of waste. F. Simmer. 1,751,459; Mar. 18.
Water-borne material from raceways and the like, Apparatus for removing. C. R. Reid. 1,751,421–2; Mar. 18.
Water-closet. U. G. Lee. 1,750,779; Mar. 18.
Water heater, Electrical. E. E. Kittredge, J. A. Forster, and R. D. Johansen. 1,750,640; Mar. 18.
Water-level indicator. C. B. O'Neill. 1,751,016; Mar. 18.
Watt-hour meter, Commutator-type direct-current. G. Lamb and L. F. Klinnard. 1,751,411; Mar. 18.
Wax distillates, Purifying. E. Petty. 1,750,646; Mar. 18.
Weather stripping. M. E. Bosley. 1,751,454; Mar. 18.
Weather shield and antirattling device, Adjustable. G. C. Lofy. 1,750,897; Mar. 18.
Weather vane. J. M. P. Wallace. 1,751,433; Mar. 18.
Welding, Automatic. W. H. D'Ardenne, J. O. Lundis, and L. H. Christensen. 1,751,077; Mar. 18.
Welding machine, Electric. F. H. Johnson. 1,750,757; Mar. 18.
Well-drilling apparatus. G. R. Watson. 1,750,826; Mar. 18.
Well screen. E. C. Wilson. 1,750,871; Mar. 18.
Well-tool grab. G. A. Robison. 1,750,728; Mar. 18.
Wheel: See—
  Antifriction wheel.
  Gear wheel.
  Scoring wheel.
  Vehicle wheel.
Wheel. J. W. White. 1,750,655; Mar. 18.
Wheel and axle. E. Kreissig. 1,751,007; Mar. 18.
Wheel for aeroplanes, Emergency. L. H. Baldwin. 1,750,950; Mar. 18.
Wheel mounting for land vehicles. J. G. Lindeman. 1,751,010; Mar. 18.
Wheel puller. F. Carl. 1,750,702; Mar. 18.
Wheel puller. P. C. Grover. 1,750,840; Mar. 18.
Wigwag stop signal. W. E. Signor. 1,751,018; Mar. 18.
Window. F. E. Domscheit. 1,750,747; Mar. 18.
Window and door. H. Rice and G. A. Mutch. 1,751,358; Mar. 18.
Window cleaner. R. Rees. 1,751,057; Mar. 18.
Window construction. G. R. Carl. 1,750,703; Mar. 18.
Window construction, Swinging. W. Dreusike. 1,750,664; Mar. 18.
Window for ships' hulls, Protected. J. Trumpy. 1,750,695; Mar. 18.
Window lift for automobiles, Electrical. G. H. Volle. 1,750,736; Mar. 18.
Window, Pivoted. H. F. A. Wachter. 1,750,914; Mar. 18.
Window regulator. C. E. Jeffers. 1,750,715; Mar. 18.
Window screen. G. I. Barclay. 1,750,659; Mar. 18.
Wire-straightening machine. G. F. Matteson. 1,751,004; Mar. 18.
Wire stretcher. A. Anderson. 1,751,381; Mar. 18.
Wood piles bound by vegetable protein adhesives, Construction unit of. I. F. Laucks and G. Davidson. 1,751,339; Mar. 18.
Wool finish on cotton goods, Producing a. R. G. Knowland and G. T. Loveridge. 1,751,089; Mar. 18.
Wrench: See—
  Power-driven wrench.
Wringer. F. L. Chamberlain. 1,750,835; Mar. 18.
X-ray radiator, Combination. S. Schvacho. 1,751,292; Mar. 18.
Zinc white, Apparatus for manufacturing. J. M. H. Corullat. 1,751,396; Mar. 18.

CLASSIFICATION OF PATENTS

ISSUED MARCH 18, 1930

NOTE—First number—class, second number—subclass, third number—patent number.

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42: 1,751,212
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U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Acme Brick Company, Danville, Ill. Brick. 269,094; Mar. 25; Serial No. 291,600; published Dec. 31, 1929. Class 12.

Alexander, G. W., & Co., Inc., Reading, Pa. Men's and women's fur-felt hats. 269,016; Mar. 25; Serial No. 291,544; published Jan. 7, 1930. Class 39.

Allen & Allen, Inc., Providence, R. I. High-tempered fire cement. 269,091; Mar. 25; Serial No. 291,807; published Jan. 14, 1930. Class 12.

Allen, Mark W., & Co., Detroit, Mich. Shaving cream. 269,075; Mar. 25; Serial No. 283,928; published Jan. 14, 1930. Class 4.

Allbestos Corporation, Philadelphia, Pa. Brake linings. 269,170; Mar. 25; Serial No. 292,964; published Jan. 14, 1930. Class 35.

Altstadt, L., & E. Waldner, New York, N. Y. Shoes. 269,006; Mar. 25; Serial No. 291,075; published Jan. 7, 1930. Class 39.

American Crayon Company, The, Sandusky, Ohio. Crayons. 269,129–30; Mar. 25; Serial Nos. 292,241–2; published Jan. 7, 1930. Class 37.

American Crayon Company, The, Sandusky, Ohio. Crayons. 269,135; Mar. 25; Serial No. 292,090; published Jan. 7, 1930. Class 37.

American Gypsum Company, The, Port Clinton, Ohio. Colored gypsum stucco. 269,100; Mar. 25; Serial No. 291,421; published Dec. 24, 1929. Class 12.

American Lady Corset Co., Detroit, Mich. Ladies' wearing apparel. 269,169; Mar. 25; Serial No. 286,217; published Jan. 7, 1930. Class 39.

American Occupational Therapy Association, The, New York, N. Y. Publication. 269,128; Mar. 25; Serial No. 292,248; published Jan. 7, 1930. Class 38.

American Rolling Mill Co., The, Middletown, Ohio. Ferrous-metal sheets. 269,066; Mar. 25; Serial No. 274,754; published Jan. 7, 1930. Class 14.

American Sales Book Company, Limited, Toronto, Ontario, Canada; Elmira and Niagara Falls, N. Y. Paper record sheets and strips, pads, etc. 268,962; Mar. 25; Serial No. 255,586; published Jan. 7, 1930. Class 37.

American Writing Paper Company, Inc., Holyoke, Mass. Paper. 269,136; Mar. 25; Serial No. 291,953; published Jan. 7, 1930. Class 37.

American Writing Paper Company, Inc., Holyoke, Mass. Paper. 269,159; Mar. 25; Serial No. 291,952; published Jan. 7, 1930. Class 37.

American Writing Paper Company, Inc., Holyoke, Mass. Paper. 269,160–2; Mar. 25; Serial Nos. 291,948–50; published Jan. 7, 1930. Class 37.

Antrim, C. W., & Sons, Richmond, Va. Coffee. 268,939–40; Mar. 25; Serial Nos. 293,255–6; published Jan. 14, 1930. Class 46.

Apollo Metal Works, La Salle, Ill. Nonferrous metals. 268,981–4; Mar. 25; Serial Nos. 290,238–6; published Jan. 7, 1930. Class 14.

Apollo Paper Corporation, New York, N. Y. Bond paper. 269,127; Mar. 25; Serial No. 292,245; published Jan. 7, 1930. Class 37.

Armishaw, Sam, doing business as Armishaw's, Portland, Oreg. Boots and shoes. 269,011; Mar. 25; Serial No. 292,649; published Jan. 14, 1930. Class 39.

Armstrong Refining Company, assignor, by mesne assignments, to Armstrong Packing Company, Dallas, Tex. Cottonseed cooking oil. 78,764; renewed July 12, 1930.

Bacorn Company, The, Elmira and Elmira Heights, N. Y. Chemicals and pharmaceutical preparations. 79,133; renewed Aug. 16, 1930.

Baltimore Butterine Co., The, Baltimore, Md. Oleomargarine. 268,975; Mar. 25; Serial No. 292,967; published Jan. 14, 1930. Class 46.

Barton, Larry J., Angels Camp, Calif. Abrasive-resisting castings. 269,157; Mar. 25; Serial No. 288,215; published Jan. 7, 1930. Class 14.

Barton Shoe Co., Inc., Worcester, Mass. Leather shoes. 268,968; Mar. 25; Serial No. 283,028; published Jan. 7, 1930. Class 39.

Baumgardner, L. S., & Company, to Baumgardner & Co., Toledo, Ohio, successor. Overshirts, overalls, pants, and coats. 76,065; renewed Dec. 14, 1929.

Bay West Paper Company, Green Bay, Wis. Paper towels. 269,133–4; Mar. 25; Serial Nos. 292,197–8; published Jan. 14, 1930. Class 37.

Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Artics. 268,997; Mar. 25. Class 39.

Bezanson, Dr. Chas., & Co., Guthrie, Okla., to Ko-Cin-Ko Co., Oklahoma City, Okla., successor. Remedy for rheumatism. 75,425; renewed Oct. 5, 1929.

Bigelow-Sanford Carpet Co. (See Higgins, E. S., Carpet Company, assignor.)

Boardman Company, The, Oklahoma City, Okla. Mechanical fan for cleaning cotton. 269,188; Mar. 25; Serial No. 290,540; published Jan. 14, 1930. Class 23.

Bonded Materials Company, Louisville, Ky. Roof coating and waterproofing compound. 269,096; Mar. 25; Serial No. 291,496; published Jan. 14, 1930. Class 12.

Bonded Materials Company, Louisville, Ky. Roof coating and waterproofing compound. 269,097–8; Mar. 25; Serial Nos. 291,494–5; published Jan. 14, 1930. Class 12.

Bourjois, Inc. (See Woodworth, C. B., Sons Co., The.)

Bozeman Milling Company, The Bozeman, assignor to Montana Flour Mills Company, Great Falls, Harlowton, Lewiston, and Bozeman, Mont. Wheat flakes and rolled oats. 78,771; renewed July 12, 1930.

Bradford Dyers' Association, Limited, The, Bradford, England. Woolen piece goods. 268,947; Mar. 25; Serial No. 293,260; published Jan. 14, 1930. Class 42.

Brennan Adding Machine Company, Chicago, Ill. Combined adding and listing machines. 269,184; Mar. 25; Serial No. 291,201; published Jan. 14, 1930. Class 26.

Brown & Bigelow, St. Paul, Minn. Pencils, pens, leads, and rubber erasers. 268,961; Mar. 25; Serial No. 236,411; published Feb. 12, 1929. Class 37.

Buddy-Botti Step Shoe Co. Inc., The, Bethlehem, Pa. Shoes. 269,003; Mar. 25; Serial No. 291,904; published Jan. 14, 1930. Class 39.

Butterfield, Fred, & Co., Inc., New York, N. Y. Cotton, linen, silk, etc., in the piece. 269,073; Mar. 25; Serial No. 284,438; published Jan. 14, 1930. Class 42.

Catholic Church Extension Society of the United States of America, The, Chicago, Ill. Calendars. 269,025; Mar. 25; Serial No. 292,864; published Jan. 14, 1930. Class 38.

Cauchois Coffee Company, New York, N. Y. Cocoa preparation. 269,065; Mar. 25; Serial No. 275,018; published Jan. 8, 1929. Class 46.

Cedarseald Company. (See Deuney, Marshall E.)

Cellcote Company. (See Smith, William E.)

Certain-teed Products Corporation, New York, N. Y. Sheathing, composition shingle slabs, etc. 269,113; Mar. 25; Serial No. 290,115; published Jan. 14, 1930. Class 12.

Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 268,990; Mar. 25; Serial No. 293,092; published Jan. 14, 1930. Class 42.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, etc., fabrics in the piece. 268,991; Mar. 25; Serial No. 293,090; published Jan. 14, 1930. Class 42.

Cheramy, Inc., New York, N. Y. Soaps and shaving creams, etc. 269,193; Mar. 25; Serial No. 285,067; published Jan. 14, 1930. Class 4.

Claire Parfumeur, Inc., assignor to Evenod Perfumer, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 269,193; Mar. 25; Serial No. 285,067; published Aug. 6, 1929. Class 6.

Cleopatra Chemists Corporation, New York, N. Y. Compounds for cleaning, shaving cream, soap powders, etc. 268,970; Mar. 25; Serial No. 289,099; published Dec. 31, 1929. Class 4.

Cluthe, Charles, New York, N. Y., assignor to F. W. and A. Cluthe, doing business as Chas. Cluthe & Sons, Bloomfield, N. J. Certain surgical appliances. 76,713; renewed Feb. 8, 1930. Class 44.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 269,028; Mar. 25; Serial No. 292,794; published Jan. 14, 1930. Class 4.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap, soap powder, shaving cream, etc. 269,034; Mar. 25; Serial No. 292,484; published Jan. 14, 1930. Class 4.

Colorado Milling & Elevator Co., The, Denver, Colo. Wheat flour. 268,980; Mar. 25; Serial No. 290,621; published Jan. 14, 1930. Class 46.

Consolidated Retail Stores, Inc., The, New York, N. Y. Ladies' coats, dresses, underwear, and hats. 268,956; Mar. 25; Serial No. 277,242; published Jan. 7, 1930. Class 39.

Container Corporation of America, Chicago, Ill. Composite paper or fibre board. 269,148; Mar. 25; Serial No. 291,116; published Jan. 14, 1930. Class 37.

Continental Type Founders Association, Inc., New York, N. Y. Printer's type. 268,979; Mar. 25; Serial No. 290,939; published Jan. 7, 1930. Class 14.

Cooley Finishing Company, The, Pawtucket, R. I. Waterproof cotton duck or similar awning fabric. 269,076; Mar. 25; Serial No. 283,674; published Dec. 31, 1929. Class 50.

Curlee Clothing Company, St. Louis, Mo. Men's suits. 269,185; Mar. 25; Serial No. 291,118; published Jan. 7, 1930. Class 39.

Dalsimer, S., and Sons, Philadelphia, Pa. Leather shoes. 269,063; Mar. 25; Serial No. 275,769; published Jan. 14, 1930. Class 39.

Dana, William B., Company, New York, N. Y. Periodical. 269,031; Mar. 25; Serial No. 292,659; published Jan. 14, 1930. Class 38.

Dana, William B., Company, New York, N. Y. Periodical. 269,047; Mar. 25; Serial No. 293,029; published Jan. 14, 1930. Class 38.

Dassonville, Michel, Paris, France. Artificial cellulosic material. 269,052; Mar. 25; Serial No. 285,862; published Jan. 14, 1930. Class 1.

Davis, Bryan, Publishing Co. Inc., New York, N. Y. Monthly magazine. 269,144; Mar. 25; Serial No. 290,207; published Dec. 31, 1929. Class 38.

Dell Publishing Company, Inc., New York, N. Y. Periodicals. 269,128; Mar. 25; Serial No. 292,897; published Jan. 7, 1930. Class 38.

Denney, Marshall E., doing business as Cedarseald Company, Tampa, Fla. Composition plaster. 269,083; Mar. 25; Serial No. 291,965; published Jan. 7, 1930. Class 12.
Doe, William A., Co., Boston, Mass. Fish and fish fillets. 268,954; Mar. 25; Serial No. 278,030; published Jan. 14, 1930. Class 46.
Doelger, Peter, Brewing Corporation, New York, N. Y. Nonalcoholic, cereal, malt beverages. 269,181; Mar. 25; Serial No. 291,609; published Jan. 14, 1930. Class 48.
Du Pont Cellophane Company, Inc., New York, N. Y. Caps and bands of cellulose. 269,030; Mar. 25; Serial No. 292,722; published Jan. 14, 1930. Class 1.
Du Pont Cellophane Company, Inc., New York, N. Y. Moistureproof cellulose sheets. 269,111; Mar. 25; Serial No. 290,308; published Jan. 7, 1930. Class 50.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Rubberized fabrics. 269,089; Mar. 25; Serial No. 291,912; published Jan. 7, 1930. Class 50.
Dursar Corporation, The, Newark, N. J. Cast iron, ferrous metal castings. 268,977; Mar. 25; Serial No. 291,658; published Dec. 31, 1929. Class 14.
Empire Shoe Corp., The, New York, N. Y. Shoes, sandals, slippers, etc. 269,009; Mar. 25; Serial No. 290,212; published Jan. 14, 1930. Class 39.
Evenod Perfumer, Inc. (See Claire Parfumeur, Inc., assignor.)
Fawcett Publications, Inc., Robbinsdale, Minn. Magazines. 269,046; Mar. 25; Serial No. 293,034; published Jan. 14, 1930. Class 38.
Fecker Company, Danville, Ill. Malt syrup. 269,166; Mar. 25; Serial No. 280,371; published Apr. 23, 1929. Class 46.
Feeders Co-Operative System of Omaha. (See Hart, E. M.)
Feinman, Jacob O., Brooklyn, N. Y. Chewing gum. 268,942; Mar. 25; Serial No. 293,095; published Jan. 14, 1930. Class 46.
Fisk Rubber Company, The, Chicopee Falls, Mass., and Cudahy, Wis. Compounded unvulcanized rubber and uncured rubber. 269,048; Mar. 25; Serial No. 288,229; published Dec. 31, 1929. Class 1.
Fisk Rubber Company, The, Chicopee Falls, Mass., and Cudahy, Wis. Compounded unvulcanized rubber, uncured sheet rubber, and tire-flap material. 269,118; Mar. 25; Serial No. 288,230; published Dec. 31, 1929. Class 1.
Flexibrick Company, Milwaukee, Wis. Plastic material. 268,953; Mar. 25; Serial No. 278,504; published Apr. 16, 1929. Class 12.
Flintkote Company, The, Boston, Mass. Asphalt roofing shingles, waterproof building paper, and asphaltic roofing cement. 269,086; Mar. 25; Serial No. 292,103; published Jan. 14, 1930. Class 12.
Flinkote Company, The, Boston, Mass. Asphalt roofing. 269,087; Mar. 25; Serial No. 292,100; published Jan. 14, 1930. Class 12.
Florian, Inc., Detroit, Mich. Shaving cream. 268,140; Mar. 25; Serial No. 291,661; published Jan. 14, 1930. Class 4.
Ford, Francis, doing business as St. Louis Commercial Photographers, St. Louis, Mo. Photographs. 269,121; Mar. 25; Serial No. 292,447; published Jan. 7, 1930. Class 38.
Forrest Mercerizing Co., Gloucester City, N. J. Yarns. 268,946; Mar. 25; Serial No. 293,316; published Jan. 14, 1930. Class 43.
Fort Dearborn Lithograph Co., Chicago, Ill. Bond paper. 269,154; Mar. 25; Serial No. 286,755; published Jan. 7, 1930. Class 37.
Foster, Benjamin, Company Inc., Philadelphia, Pa. Bituminous waterproofing material, etc. 269,108; Mar. 25; Serial No. 290,828; published Jan. 14, 1930. Class 12.
Foster, Benjamin, Company Inc., Philadelphia, Pa. Bituminous waterproofing material, etc. 269,112; Mar. 25; Serial No. 290,214; published Jan. 14, 1930. Class 12.
Foster Laboratories, Incorporated, St. Paul, Minn. Cleaning composition. 269,147; Mar. 25; Serial No. 291,213; published Jan. 7, 1930. Class 4.
Franklin Simon & Co. Inc., New York, N. Y. Suits and overcoats, caps, etc. 269,015; Mar. 25; Serial No. 291,587; published Jan. 7, 1930. Class 39.
French Sardine Company of California, doing business as French Sardine Co. Inc., Terminal Island, Calif. Canned fish. 268,963; Mar. 25; Serial No. 252,012; published Jan. 14, 1930. Class 46.
Frost Coal Company, Neponset, Mass. Coal. 269,049; Mar. 25; Serial No. 286,355; published Dec. 24, 1929. Class 1.
Gear Processing, Inc., Cleveland, Ohio. Metallic laps and hones and laps and hones of abrasive material. 268,969; Mar. 25; Serial No. 289,674; published Dec. 31, 1929. Class 4.
General Fisheries Corporation, New York, N. Y. Fish. 269,167; Mar. 25; Serial No. 288,851; published Jan. 14, 1930. Class 46.
Gentile Bros. Company, Orlando, Fla. Fresh citrus fruits. 268,944; Mar. 25; Serial No. 293,040; published Jan. 14, 1930. Class 46.
Gibson-Homans Western Company, The, Kansas City, Mo. Protective coating for roofs. 269,107; Mar. 25; Serial No. 290,830; published Dec. 24, 1929. Class 12.
Glaser, George, doing business as Paramount Shoe Store, Scranton, Pa. Women's shoes. 269,013; Mar. 25; Serial No. 292,527; published Jan. 14, 1930. Class 39.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Razor blades. 269,173; Mar. 25; Serial No. 292,725; published Jan. 14, 1930. Class 23.
Green, A. P., Fire Brick Company, Mexico, Mo. Crushed-fire-brick grog. 269,089; Mar. 25; Serial No. 291,450; published Jan. 14, 1930. Class 12.
Grimth Laboratories, Inc., Chicago, Ill. Cereal. 268,987; Mar. 25; Serial No. 289,278; published Jan. 14, 1930. Class 46.
Grimth Laboratories, Inc., Chicago, Ill. Cereal. 268,988; Mar. 25; Serial No. 289,276; published Jan. 14, 1930. Class 46.
Habicht, Braun & Co., New York, N. Y. Shelled almonds. 76,881–4; renewed Feb. 22, 1930.
Habicht, Braun & Co., New York, N. Y. Shelled almonds. 76,935; renewed Feb. 22, 1930.
Hagerstown Leather Co., Inc., Hagerstown, Md. Leather. 269,105; Mar. 25; Serial No. 291,005; published Dec. 24, 1929. Class 1.
Hall Packing Co., El Centro, Calif. Fresh fruit, fresh cantaloupes, and fresh vegetables. 268,958; Mar. 25; Serial No. 286,929; published Jan. 14, 1930. Class 46.
Harbison-Walker Refractories Company, Pittsburgh, Pa. Fire brick. 269,080–3; Mar. 25; Serial Nos. 292,316–21; published Jan. 14, 1930. Class 12.
Hardwick & Magee Company, Philadelphia, Pa. Textile carpets. 268,945; Mar. 25; Serial No. 293,368; published Jan. 14, 1930. Class 42.
Hart, E. M., doing business as Feeders Co-Operative System of Omaha, Hastings, Nebr. Stock and poultry feeds. 269,043; Mar. 25; Serial No. 293,178; published Jan. 14, 1930. Class 46.
Haynes Stellite Company, The, Kokomo, Ind. Blades and cutters. 269,174; Mar. 25; Serial No. 292,603; published Jan. 14, 1930. Class 23.
Higgins, E. S., Carpet Company, assignor, by mesne assignments, to Bigelow-Sanford Carpet Co., Inc., New York, N. Y. Carpets. 34,042; renewed Jan. 16, 1930.
Hirschman, J. C., Company, The, Indianapolis, Ind. Mattresses for beds. 268,994; Mar. 25; Serial No. 293,047; published Jan. 14, 1930. Class 32.
Hoham, Fred D., Fort Wayne, Ind. Cleaner of false-teeth plates. 268,973; Mar. 25; Serial No. 285,800; published Jan. 14, 1930. Class 4.
Hollywood Dry Corporation, doing business as Puritybonded Products, Inc., Los Angeles, Calif. Bottling concentrate for manufacturing nonalcoholic beverages. 268,989; Mar. 25; Serial No. 293,220; published Jan. 14, 1930. Class 45.
Hooper, Wm. E., & Sons Co., Woodberry, Baltimore, Md. Waterproof fabric and waterproof cotton duck. 269,050; Mar. 25; Serial No. 286,169; published Dec. 24, 1929. Class 50.
Houbigant, Inc., New York, N. Y. Toilet soaps and shaving creams. 269,021; Mar. 25; Serial No. 292,946; published Jan. 14, 1930. Class 4.
Houbigant, Inc., New York, N. Y. Toilet soaps and shaving creams. 269,022; Mar. 25; Serial No. 292,944; published Jan. 14, 1930. Class 4.
Houbigant, Inc., New York, N. Y. Toilet soaps and shaving creams. 269,023; Mar. 25; Serial No. 292,942; published Jan. 14, 1930. Class 4.
Houbigant, Inc., New York, N. Y. Toilet soaps and shaving creams. 269,024; Mar. 25; Serial No. 292,940; published Jan. 14, 1930. Class 4.
Houbigant, Inc., New York, N. Y. Toilet soaps and shaving creams. 269,026; Mar. 25; Serial No. 292,938; published Jan. 14, 1930. Class 4.
Houbigant, Inc., New York, N. Y. Toilet soaps and shaving creams. 269,137; Mar. 25; Serial No. 292,943; published Jan. 14, 1930. Class 4.
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 269,171; Mar. 25; Serial No. 292,941; published Jan. 7, 1930. Class 6.
Jaunty Jean Company, Los Angeles, Calif. Clothing. 269,010; Mar. 25; Serial No. 290,070; published Jan. 14, 1930. Class 39.
Jewel Razor Blade Company. (See Kampfe, Richard.)
Kampfe, Richard, doing business as Jewel Razor Blade Company, Newark, N. J. Razor blades. 269,067; Mar. 25; Serial No. 273,971; published Jan. 8, 1929. Class 23.
Kaufmann Bros. & Bondy, Inc., West New York, N. J. Fountain pens. 269,132; Mar. 25; Serial No. 292,213; published Jan. 7, 1930. Class 37.
Kemp, Edward F., Somerville, Mass. Candy, nuts, etc. 268,959; Mar. 25; Serial No. 265,655; published Oct. 8, 1929. Class 46.
Keystone Coal and Coke Company, Greensburg, Pa. Coal and coke. 269,116; Mar. 25; Serial No. 288,800; published Jan. 7, 1930. Class 1.
Klaas, Carl, Solingen, Germany. Razor blades. 268,949; Mar. 25; Serial No. 293,221; published Jan. 14, 1930. Class 23.
Klauer Manufacturing Company, Dubuque, Iowa. Metal conductor-pipe elbows. 74,470; renewed July 13, 1929.
Kleinert, I. B., Rubber Company, New York, N. Y. Bathing shoes. 268,998; Mar. 25; Serial No. 292,997; published Jan. 14, 1930. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Rubber sandals or footholds. 269,074; Mar. 25; Serial No. 284,184; published Jan. 7, 1930. Class 39.
Knight Brothers Paper Company, Jacksonville, Fla. Paper. 269,119; Mar. 25; Serial No. 292,734; published Jan. 7, 1930. Class 37.
Knight Brothers Paper Company, Jacksonville, Fla. Paper. 269,138; Mar. 25; Serial No. 292,735; published Jan. 7, 1930. Class 37.
Ko-Cin-Ko Co. (See Bezanson, Dr. Chas., & Co.)
Kops Bros. Inc., New York, N. Y. Corsets, brassières, and girdles. 269,012; Mar. 25; Serial No. 292,633; published Jan. 14, 1930. Class 39.
Leeno Products Co., Baltimore, Md. Metal polish, metal and glass polish, and liquid cleaning fluid. 269,078; Mar. 25; Serial No. 283,199; published Jan. 7, 1930. Class 4.
Lincoln Iron Works, Rutland, Vt. Stoneworking machinery. 268,993; Mar. 25; Serial No. 293,054; published Jan. 14, 1930. Class 23.
Lindner, Richard, to Richard Lindner, Leipsig, Germany, successor. Skins and furs. 75,966; renewed Nov. 30, 1929.
Logan-Long Company, The, Franklin, Ohio; Atlanta, Ga.; Fulton, N. Y.; and Chicago, Ill. Composition shingles. 269,077; Mar. 25; Serial No. 283,575; published Jan. 14, 1930. Class 12.
Lothrop, Lee & Shepard Company, assignor to Lothrop, Lee & Shepard Co., Boston, Mass. Books of fiction published serially. 76,977; renewed Mar. 1, 1930.
Louisiana State Rice Milling Company, Inc., Abbeville, La. Rice. 269,045; Mar. 25; Serial No. 293,145; published Jan. 14, 1930. Class 46.
Lye, T., & Sons, to Ernest B. Lye, doing business as T. Lye & Sons, Luton, England, successor. Partly-prepared straw and partly-prepared chip. 73,827; renewed May 25, 1929.
Lye, T., & Sons, to Ernest B. Lye, doing business as T. Lye & Sons, Luton, England, successor. Straw plait and chip plait. 73,884; renewed May 25, 1929.
Lyons-Clark-Lyons, Terminous, Calif. Fresh celery, asparagus, onions, and potatoes. 268,966; Mar. 25; Serial No. 277,173; published Jan. 14, 1930. Class 46.
Management Magazines, Inc., Chicago, Ill. Periodical. 269,139; Mar. 25; Serial No. 291,679; published Jan. 7, 1930. Class 38.
Manhattan Soap Company, Inc., New York, N. Y. Steel wool and soap. 269,040; Mar. 25; Serial No. 291,886; published Jan. 7, 1930. Class 4.
Martin Cantine Company, The, Saugerties, N. Y. Dull-finished paper. 269,125; Mar. 25; Serial No. 292,327; published Jan. 7, 1930. Class 37.
Mar-Vel-O Company. (See Rambonnet, Carrie H.)
Masterhand Photo Studio. (See Strauss, Max.)
Match Import Company, New York, N. Y. Matches. 269,177; Mar. 25; Serial No. 292,219; published Jan. 14, 1930. Class 9.
McCarthy, Charles H., Minneapolis, Minn. Quarterly publication. 269,036; Mar. 25; Serial No. 292,272; published Dec. 31, 1929. Class 38.
Meredith Publishing Company, Des Moines, Iowa. Publication. 269,033; Mar. 25; Serial No. 292,587; published Jan. 14, 1930. Class 38.
Midwest Lumber Company, Dubuque, Iowa. Coal. 269,103; Mar. 25; Serial No. 291,230; published Jan. 14, 1930. Class 1.
Mill & Mine Supply Company, Seattle, Wash. Iron and steel chains. 78,259; renewed May 31, 1930.
Mill & Mine Supply Company, Seattle, Wash. Wire rope. 79,508; renewed Sept. 13, 1930.
Minnesota Chemical Co., Inc., The, St. Paul, Minn. Laundry and washing and cleansing compound. 269,145; Mar. 25; Serial No. 291,570; published Jan. 14, 1930. Class 4.
Minnesota Public Health Association, St. Paul, Minn. Publication. 269,164; Mar. 25; Serial No. 291,685; published Jan. 7, 1930. Class 38.
Mohawk Rubber Company, The, Akron, Ohio. Resilient vehicle tires. 268,955; Mar. 25; Serial No. 277,633; published Apr. 9, 1929. Class 35.
Mollé Company, The, Cleveland, Ohio. Toilet preparations. 268,971; Mar. 25; Serial No. 286,995; published Dec. 31, 1929. Class 4.
Montana Flour Mills. (See Bozeman Milling Company, The, assignor.)
Morrison Fountain Pen Co. Inc., New York, N. Y. Fountain pens and pencils. 269,120; Mar. 25; Serial No. 292,589; published Jan. 14, 1930. Class 37.
Mountain City Stove & Roofing Co. (See Southern Queen Range Mfg. Co.)
National Paper and Type Company, Inc., New York, N. Y. Periodical. 269,085; Mar. 25; Serial No. 292,329; published Dec. 31, 1929. Class 38.
National Sewing Machine Company, Belvidere, Ill. Sewing machines. 268,992; Mar. 25; Serial No. 293,063; published Jan. 14, 1930. Class 23.
NEA Service, Inc., Cleveland, Ohio. Comic strip. 269,032; Mar. 25; Serial No. 292,590; published Jan. 14, 1930. Class 38.
New England Confectionery Company, Cambridge, Mass. Candy. 269,005; Mar. 25; Serial No. 291,688; published Jan. 7, 1930. Class 46.
Newspaper Corporation of America, Indianapolis, Ind. Section of a newspaper. 269,131; Mar. 25; Serial No. 292,226; published Jan. 7, 1930. Class 38.
New York Canners, Inc. (See Olney, Burt, Canning Company, The, assignor.)
New York Rubber Corporation, Beacon, N. Y. Rubber belting and hose. 269,187; Mar. 25; Serial No. 290,789; published Jan. 14, 1930. Class 35.
Olney, Burt, Canning Company, The, Oneida, assignor to New York Canners, Inc., Rochester, N. Y. Canned fruits and vegetables. 77,429; renewed Apr. 5, 1930.
Outlet Millinery Company, Incorporated, Hartford, Conn. Women's hats. 269,019; Mar. 25; Serial No. 282,610; published Jan. 7, 1930. Class 39.
Overholt, A., & Company, Broad Ford, Pa. Whiskey. 269,180; Mar. 25; Serial No. 291,785; published Jan. 14, 1930. Class 49.
Owyhee Chemical Products Company, Cheyenne, Wyo. Clays. 269,106; Mar. 25; Serial No. 290,967; published Jan. 7, 1930. Class 1.
Osanne, Pierre H., doing business as Stego Cement Waterproofing Co., Seattle, Wash. Cement waterproofing. 269,102; Mar. 25; Serial No. 291,236; published Jan. 14, 1930. Class 12.
Pacatome Company, San Francisco, Calif. Silica. 269,114; Mar. 25; Serial No. 288,977; published Dec. 31, 1929. Class 1.
Pacatome Company, San Francisco, Calif. Diatomaceous silica. 269,115; Mar. 25; Serial No. 288,974; published Dec. 31, 1929. Class 1.
Painter, Ellen G., Alexandria, Va. Fruit cake. 269,044; Mar. 25; Serial No. 293,170; published Jan. 14, 1930. Class 46.
Paramount Shoe Store. (See Glaser, George.)
Paris Dry Goods Co., The, Great Falls, Mont., and New York, N. Y. Shoes and hosiery. 268,957; Mar. 25; Serial No. 268,884; published Nov. 20, 1928. Class 39.
Perma-Floor Company, The, Cleveland, Ohio. Mastic flooring. 268,960; Mar. 25; Serial No. 261,645; published Jan. 7, 1930. Class 12.
Petroleum Engineer Publishing Co., The, Tulsa, Okla. Magazines. 269,146; Mar. 25; Serial No. 291,526; published Jan. 7, 1930. Class 38.
Phoenix Manufacturing Company, Joliet, Ill. Horseshoes. 269,042; Mar. 25; Serial No. 293,191; published Jan. 14, 1930. Class 3.
Pinco Papers, Incorporated, Camden, N. J. Decorative papers. 269,020; Mar. 25; Serial No. 281,789; published Dec. 31, 1929. Class 37.
Pioneer Suspender Company, Philadelphia, Pa. Men's garters. 77,056; renewed Mar. 3, 1930.
Plot, Louis J., Paris, France. Medicated cigarettes. 269,189; Mar. 25; Serial No. 288,479; published Dec. 17, 1929. Class 6.
Pittsburgh Waterproof Company, Pittsburgh, Pa. Horse covers. 268,986; Mar. 25; Serial No. 289,801; published Jan. 14, 1930. Class 3.
Porter Chemical Company, The, Hagerstown, Md. Package outfits or sets containing tools, plans, patterns, etc. 269,104; Mar. 25; Serial No. 291,174; published Jan. 7, 1930. Class 50.
Powers Cinephone Equipment Corporation, New York, N. Y. Apparatus and parts thereof for the synchronous production and reproduction of talking motion pictures or other sound and light effects and talking-motion-picture films. 269,190; Mar. 25; Serial No. 287,936; published Jan. 7, 1930. Class 26.
Powers Cinephone Equipment Corporation, New York, N. Y. Apparatus and parts thereof for the synchronous production and reproduction of talking motion pictures or other sound and light effects. 269,191; Mar. 25; Serial No. 287,934; published Jan. 7, 1930. Class 26.
Preferred Shirt Co., Inc., New York, N. Y. Shirts, windbreakers, pajamas, etc. 269,186; Mar. 25; Serial No. 290,907; published Dec. 31, 1929. Class 39.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 269,029; Mar. 25; Serial No. 292,776; published Jan. 14, 1930. Class 4.
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 269,142; Mar. 25; Serial No. 291,857; published Jan. 7, 1930. Class 4.
Produce Dealers Supply Company, Boston, Mass. Fresh potatoes and turnips. 269,017; Mar. 25; Serial No. 290,908; published Jan. 14, 1930. Class 46.
Psi Omega, Pittsburgh, Pa. Periodical publication. 269,041; Mar. 25; Serial No. 293,292; published Jan. 14, 1930. Class 38.
Puritan Malt Extract Company, Chicago, Ill. Hops. 269,092; Mar. 25; Serial No. 291,693; published Dec. 31, 1929. Class 1.
Puritan Malt Extract Company, Chicago, Ill. Hops. 269,093; Mar. 25; Serial No. 291,692; published Jan. 14, 1930. Class 1.
Purity Oats Company, Keokuk, Iowa. Rolled oats and oat flakes and also a cereal breakfast food. 268,976; Mar. 25; Serial No. 292,900; published Jan. 14, 1930. Class 46.
Puritybonded Products, Inc. (See Hollywood Dry Corporation.)
Rainized Process Ltd., New York, N. Y. Waterproofed products. 268,962; Mar. 25; Serial No. 280,275; published Dec. 31, 1929. Class 50.
Ralston Purina Company, St. Louis, Mo. Animal feed. 269,158; Mar. 25; Serial No. 285,688; published Jan. 14, 1930. Class 46.

Rambonnet, Carrie H., doing business as Mar-Vel-O Company, Chicago, Ill. Preparation for cleaning woodwork, china, glass, etc. 269,165; Mar. 25; Serial No. 291,577; published Jan. 14, 1930. Class 4.

Reckitts (U. S. A.), Ltd., Hull, England, and Rochester, N. Y. Powder, paste, and liquid polishes. 269,150; Mar. 25; Serial No. 290,601; published Jan. 7, 1930. Class 4.

Red Owl Stores, Inc., Minneapolis, Minn. Canned fruits, vegetables, berries, etc. 268,950; Mar. 25; Serial No. 281,567; published Jan. 14, 1930. Class 46.

Reed, E. P., & Co., Rochester, N. Y. Shoes. 269,014; Mar. 25; Serial No. 292,462; published Jan. 14, 1930. Class 39.

Reign-On Products Company, Chicago, Ill. Roof cement and mastic coatings, etc. 269,072; Mar. 25; Serial No. 284,694; published Jan. 14, 1930. Class 12.

Reliance Manufacturing Company, Chicago, Ill. Men's work shirts. 269,070; Mar. 25; Serial No. 271,511; published Jan. 7, 1930. Class 39.

Republic Brass Corporation, New York, N. Y. Bronze and other nonferrous metal alloys. 268,985; Mar. 25; Serial No. 290,108; published Jan. 7, 1930. Class 14.

Rice-Klein Co., Los Angeles, Calif. Underwear. 269,179; Mar. 25; Serial No. 291,789; published Dec. 31, 1929. Class 39.

Rice, Samuel L., Cleveland, Ohio. Egg beaters and cream whippers. 269,064; Mar. 25; Serial No. 275,455; published Jan. 14, 1930. Class 23.

Riker Company, The, Newark, N. J. Buckles. 269,018; Mar. 25; Serial No. 282,794; published Jan. 7, 1930. Class 40.

Rockwood Alabama Stone Company, Russellville, Ala. Cut stone. 269,071; Mar. 25; Serial No. 271,269; published Jan. 14, 1930. Class 12.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Canned salmon. 269,037; Mar. 25; Serial No. 292,179; published Jan. 14, 1930. Class 46.

Rorer, William H., Inc., Philadelphia, Pa. Medicine. 269,178; Mar. 25; Serial No. 291,790; published Jan. 7, 1930. Class 6.

Roxy Thread Corporation, New York, N. Y. Sewing thread. 269,062; Mar. 25; Serial No. 275,795; published Jan. 14, 1930. Class 43.

Rugcrafter Publishing Company, The, Clearfield, Pa. Publication. 269,149; Mar. 25; Serial No. 290,859; published Jan. 14, 1930. Class 38.

Rustless Iron Corporation of America, New York, N. Y. Iron and steel. 268,978; Mar. 25; Serial No. 291,580; published Dec. 31, 1929. Class 14.

St. Elmo Lumber & Coal Company, St. Elmo, Ill. Eight-sided cottages. 269,109; Mar. 25; Serial No. 290,527; published Dec. 31, 1929. Class 12.

St. Louis Commercial Photographers. (See Ford, Francis.)

Satisfaction Supply Co, Inc., New York, N. Y. Asbestos. 269,055; Mar. 25; Serial No. 285,425; published Dec. 31, 1929. Class 1.

Schlichte, Dr. Herbert, doing business as H. W. Schlichte, Steinhagen, Germany. Gin made from juniper berries. 269,192; Mar. 25; Serial No. 285,304; published Jan. 14, 1930. Class 49.

Schmidt & Ault Paper Co., York, Pa. Paper lining for corrugated paper. 269,126; Mar. 25; Serial No. 292,290; published Jan. 7, 1930. Class 37.

Schwan-Bleistift-Fabrik A.-G., Nuremberg, Germany. Lead pencils, coloured pencils, and copying pencils. 269,152; Mar. 25; Serial No. 287,843; published Dec. 31, 1929. Class 37.

Seneca Coal and Coke Company, The, Tulsa, Okla. Coal. 269,101; Mar. 25; Serial No. 291,244; published Dec. 31, 1929. Class 1.

Serra, Arthur, & Co., Chicago, Ill. Fresh pineapple. 268,999; Mar. 25; Serial No. 292,909; published Jan. 14, 1930. Class 46.

Servus Rubber Company, The, Rock Island, Ill. Athletic shoes. 268,941; Mar. 25; Serial No. 293,076; published Jan. 14, 1930. Class 39.

Servus Rubber Company, The, Rock Island, Ill. Athletic shoes. 268,943; Mar. 25; Serial No. 293,075; published Jan. 14, 1930. Class 39.

Skat Company, The, Hartford, Conn. Hand-cleaning preparation. 269,141; Mar. 25; Serial No. 291,640; published Dec. 31, 1929. Class 4.

Sky News, Inc., New York, N. Y. Periodicals. 269,124; Mar. 25; Serial No. 292,338; published Jan. 7, 1930. Class 38.

Smith, William E., doing business as Cellcote Company, Cleveland, Ohio. Plastic coating for pickling tanks and the like. 269,110; Mar. 25; Serial No. 290,433; published Jan. 7, 1930. Class 12.

Snell & Atherton Incorporated, to Snell-Atherton-Norcross Co. Inc., Brockton, Mass., successor. Certain knives and tools. 76,039; renewed Dec. 7, 1929.

Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Material made from scraps of real leather. 269,053–4; Mar. 25; Serial Nos. 285,829–30; published Dec. 31, 1929. Class 1.

Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Manufactured leather. 269,068; Mar. 25; Serial No. 271,782; published Dec. 24, 1929. Class 50.

Società Invenzioni Brevetti Anonima-Torino, Turin, Italy. Manufactured leather. 269,069; Mar. 25; Serial No. 271,777; published Dec. 24, 1929. Class 50.

Sonnenschein, J., Hop Company, Inc., New York, N. Y. Hops. 269,051; Mar. 25; Serial No. 285,990; published Jan. 7, 1930. Class 1.

Southern Queen Range Mfg. Co., to Mountain City Stove & Roofing Co., Chattanooga, Tenn., successor. Certain stoves and heating apparatus. 76,312; renewed Jan. 4, 1930.

Speer, Clyde E., Coal Co., Incorporated, Pittsburgh, Pa. Coal. 269,079; Mar. 25; Serial No. 292,424; published Jan. 14, 1930. Class 1.

Sperry Flour Company, San Francisco, Calif. Periodical. 268,996; Mar. 25; Serial No. 293,295; published Jan. 14, 1930. Class 38.

Standard Filing Box Company, Chicago, Ill. Filing boxes. 268,967; Mar. 25; Serial No. 283,148; published Jan. 7, 1930. Class 37.

Stego Cement Waterproofing Co. (See Ozanne, Pierre H.)

Steinberger Bros. Glove Corp., San Francisco, Calif., and New York, N. Y. Gloves. 269,008; Mar. 25; Serial No. 290,435; published Dec. 31, 1929. Class 39.

Stern Brothers, New York, N. Y. Gloves. 269,001; Mar. 25; Serial No. 292,235; published Jan. 14, 1930. Class 39.

Stetson Press, The, Boston, Mass. Finished printing plates. 269,085; Mar. 25; Serial No. 292,236; published Jan. 14, 1930. Class 50.

Strauss, Max, doing business as Masterband Photo Studio, Queens, N. Y. Photographs, portraits, and paintings. 269,039; Mar. 25; Serial No. 292,017; published Jan. 14, 1930. Class 38.

Stuber & Kuck Co., Peoria, Ill. Semaphores. 268,948; Mar. 25; Serial No. 293,249; published Jan. 14, 1930. Class 23.

Suchard S. A., Serrieres, to Suchard Société Anonyme, Neuchatel, Switzerland. Cocoa. 77,966; renewed May 17, 1930.

Superior Chemical Company, Inc., Los Angeles, Calif. Cleaning fluid. 268,972; Mar. 25; Serial No. 286,085; published Dec. 31, 1929. Class 4.

Sweet Candy Company, Salt Lake City, Utah. Candy. 268,964; Mar. 25; Serial No. 250,212; published June 26, 1928. Class 46.

Sylvania Industrial Corporation, New York, N. Y. Sheets made of regenerated cellulose. 269,095; Mar. 25; Serial No. 291,593; published Dec. 31, 1929. Class 1.

Thompson-Barlow Company, Inc., The, New York, N. Y., assignor to The Weil Corset Company, New Haven, Conn. Hosiery, girdle vests, and garters. 269,056; Mar. 25; Serial No. 204,843; published Dec. 18, 1928. Class 39.

Thompson-Barlow Company, Inc., The, New York, N. Y., assignor to The Weil Corset Company, New Haven, Conn. Corsets, brassières, girdles, and girdle vests. 269,057; Mar. 25; Serial No. 205,667; published Dec. 18, 1928. Class 39.

Thompson-Barlow Company, Inc., The, assignor, by mesne assignments, to The Weil Corset Company, New Haven, Conn. Girdles and corsets. 269,058–9; Mar. 25; Serial Nos. 200,410–11; published Dec. 18, 1928. Class 39.

Thompson-Barlow Co., Inc., The, assignor, by mesne assignments, to The Weil Corset Company, New Haven, Conn. Corsets and brassières. 269,060; Mar. 25; Serial No. 195,466; published Dec. 18, 1928. Class 39.

Three Sisters, Inc., New York, N. Y. Cloaks, suits, dresses, etc. 269,007; Mar. 25; Serial No. 290,724; published Jan. 14, 1930. Class 39.

Tremco Manufacturing Company, The, Cleveland, Ohio. Construction materials. 269,117; Mar. 25; Serial No. 288,298; published Jan. 7, 1930. Class 12.

Trias-Schuhindustrie-Gesellschaft m. b. H., Vienna, Austria. Shoes, hats, and belts. 268,951; Mar. 25; Serial No. 281,025; published Jan. 7, 1930. Class 39.

Tribune Company, The, Tampa, Fla. Newspaper. 268,995; Mar. 25; Serial No. 293,297; published Jan. 14, 1930. Class 38.

Union Company, Inc., The, Columbus, Ohio. Men's wool suits, men's summer suits, etc. 269,061; Mar. 25; Serial No. 276,158; published Feb. 19, 1929. Class 39.

Union Stove Works, The, Peekskill and New York, N. Y. Stoves and ranges for cooking and heating. 79,240; renewed Aug. 16, 1930.

United Shoe Company, Philadelphia, Pa. Hosiery and shoes. 269,002; Mar. 25; Serial No. 292,131; published Jan. 14, 1930. Class 39.

United States Gypsum Company, Chicago, Ill. Plaster. 269,084; Mar. 25; Serial No. 292,800; published Jan. 14, 1930. Class 12.

U. S. Sanitary Specialties Corporation, Chicago, Ill. Dry-cleaning compounds. 269,153; Mar. 25; Serial No. 287,511; published Jan. 7, 1930. Class 4.

Universal Engineering Company, Los Angeles, Calif. Earth-boring bits and core-working barrels. 269,176; Mar. 25; Serial No. 292,301; published Jan. 14, 1930. Class 23.

Useful Products Company, Orange, N. J. Liquid dry cleaners. 268,974; Mar. 25; Serial No. 285,052; published Jan. 14, 1930. Class 4.

Valley Ranch Co., The, Valley, Wyo. Catalogues, printed folders, magazines. 269,163; Mar. 25; Serial No. 291,847; published Jan. 7, 1930. Class 38.

Van Itallie, Dorus, doing business as The Van Itallie Company, New York, N. Y. Noncut industrial diamonds. 269,090; Mar. 25; Serial No. 291,807; published Jan. 7, 1930. Class 1.

Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. 269,172; Mar. 25; Serial No. 292,765; published Jan. 14, 1930. Class 35.

Waterbury Clock Company, Waterbury, Conn. Aneroid barometers. 269,175; Mar. 25; Serial No. 292,427; published Jan. 14, 1930. Class 26.

Watson, Angus, & Co. (America) Limited, San Francisco, Calif. Canned fish. 269,168; Mar. 25; Serial No. 287,643; published Jan. 14, 1930. Class 46.

Webster, William A., Company, The, Memphis, Tenn. Shaving cream. 269,038; Mar. 25; Serial No. 292,143; published Jan. 7, 1930. Class 4.

Weil Corset Company, The. (See Thompson-Barlow Company, The, assignor.)

Wells-Lamont Manufacturing Company, Minneapolis, Minn. Gauntlet gloves. 269,004; Mar. 25; Serial No. 291,898; published Jan. 14, 1930. Class 39.

Wester Bros., to Wester Bros., New York, N. Y., successor. Razors, scissors, shears, and table cutlery. 76,242; renewed Dec. 28, 1929.

Western Clock Mfg. Co., The, La Salle, assignor to Western Clock Company, Peru, Ill. Clocks and watches. 78,751; renewed July 5, 1930.

White, Charlotte E., Carbondale, Ill. Face soap. 269,156; Mar. 25; Serial No. 286,350; published Jan. 14, 1930. Class 4.

Wilbar's, Inc., Boston, Mass. Shoes. 269,000; Mar. 25; Serial No. 292,698; published Jan. 14, 1930. Class 39.

Williams, J. B., Company, The, Glastonbury, Conn. Soap, shaving cream and powder shaving stick and liquid. 269,143; Mar. 25; Serial No. 290,864; published Jan. 7, 1930. Class 4.

Willy, John, Chicago, Ill. Printed books and periodical magazines. 268,965; Mar. 25; Serial No. 247,509; published Jan. 7, 1930. Class 38.

Wilson, Robert G., doing business as William M. Wilson's Sons, Philadelphia, Pa. Self-measuring pumps, such as used to supply automobile drivers. 269,182–3; Mar. 25; Serials Nos. 291,255–6; published Jan. 14, 1930. Class 26.

Wittner, Harry S., doing business as H. S. Wittner, New York, N. Y. Bookkeeping record forms. 269,122; Mar. 25; Serial No. 292,430; published Jan. 7, 1930. Class 37.

Woodworth, C. B., Sons Co., The, Rochester, by mergers and changes of name to Bourjois, Inc., New York, N. Y. Toilet preparations. 75,597; renewed Oct. 26, 1929.

Woodworth, C. B., Sons Co., The, Rochester, by mergers and changes of name to Bourjois, Inc., New York, N. Y. Perfumes, toilet waters, face powders, and sachet powders. 77,154; renewed Mar. 15, 1930.

Wyoming Valley Paper Mill, Northumberland, N. H., and New York, N. Y. Toilet paper. 269,151; Mar. 25; Serial No. 289,431; published Dec. 31, 1929. Class 37.

Z. & W. M. Crane, Inc., Dalton, Mass. Writing paper and envelopes. 269,155; Mar. 25; Serial No. 286,536; published Jan. 14, 1930. Class 37.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Benson, E. C., doing business as Ray-On Paint & Color Co., Chicago, Ill. Flat Wall Paint. For Ready-Mixed Paints. 37,277; Mar. 25.

Burgess Battery Company, Madison, Wis. Ben Hur General Purpose Dry Battery. For Electric Batteries. 37,278; Mar. 25.

Crawford, Beatrice H., Phoenix, Ariz. Auto Cold Tablets. For Tablets for Treatment of Coughs and Colds. 37,279; Mar. 25.

Cubbison, Sophie C., Los Angeles, Calif. "Tos-Ka." For Cake. 37,280; Mar. 25.

Dedenbach Chemical Company, Detroit, Mich. Dexaid—A. For Eczema Medicine. 37,281; Mar. 25.

Dedenbach Chemical Company, Detroit, Mich. Dexaid—B. For Eczema Medicine. 37,282; Mar. 25.

Elliott Varnish Co., Chicago, Ill. Elliott's Best. For Ready-Mixed Paints. 37,283; Mar. 25.

Fort Howard Paper Company, Green Bay, Wis. Fort Howard. For Toilet Paper. 37,284; Mar. 25.

Harvey Paper Products Co., Sturgis, Mich. Waxed Baking Dishes. For Waxed-Paper Dishes. 37,285; Mar. 25.

Howey-in-the-Hills Juice Company, Howey-in-the-Hills, Fla. Howey Orange Juice. For Orange Juice. 37,286; Mar. 25.

Hyman, S. E., Co., The, Fremont, Ohio. Rainbow Slip Covers. For Slip Covers. 37,287; Mar. 25.

Liedtke, F. W., Philadelphia, Pa. American Tribute. For Cigars. 37,288; Mar. 25.

Milwaukee Malt Syrup Company, Milwaukee, Wis. Pulaski. For Malt Syrup. 37,289; Mar. 25.

Newcomb, Harry W., Arlington, Mass. Square-Meal. For Health-Food Mixture of Dried Fruits and Nuts. 37,290; Mar. 25.

Ray-On Paint & Color Co. (See Benson, E. C.)

Schrafft's. (See Shattuck, Frank G., Co.)

Schulze Baking Company, Chicago, Ill., and Kansas City, Mo. Butter Nut. For Bread. 37,291; Mar. 25.

Shattuck, Frank G., Co., doing business as Schrafft's, New York, N. Y. Thin Chocolates. For Candy. 37,292; Mar. 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Bamberger, L., & Co., Newark, N. J. Fashions of the Hour. For Dresses, Coats, Ensembles for Misses and Women. 12,457; Mar. 25.

Cream of Wheat Corporation, The, Minneapolis, Minn. Healthy and Merry in Their Story-Book World—The Children of Mr. and Mrs. P. A. B. Widener II. For Wheat Breakfast Food. 12,458; Mar. 25.

Depyro Laboratories, Portland, Me. To Thoroughly Cleanse and Deodorise. For a Preparation and a Brush for Cleansing and Purifying Artificial Teeth. 12,459; Mar. 25.

Grigsby-Grunow Company, Chicago, Ill. Re-Tube with Majestic Tubes. For Radio Tubes. 12,460; Mar. 25.

Harvey Paper Products Co., Sturgis, Mich. Waxed Paper Baking Cups. For Waxed Paper Dishes. 12,461; Mar. 25.

Musebeck Shoe Company, Danville, Ill. Musebeck Flexible Double-Arch Wear Straight Shoes. For Shoes and Insoles for Shoes. 12,462; Mar. 25.

Pittenger, Caroline E., Somerville, N. J. Friendship Sweets. For Candy. 12,463; Mar. 25.

Weisberg, Benjamin, Philadelphia, Pa. Wise Bow. For Neckties. 12,464; Mar. 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abraham & Strauss, Inc., New York, N. Y. Men's hats. 278,021; Mar. 25. Class 39.

Adelson, Joseph, & Sons, New York, N. Y. Ladies' underwear of silk, rayon, and a mixture of rayon and silk. 295,064; Mar. 25. Class 39.

Admiral Ready Coffee Refining Corporation, New York, N. Y. Coffee. 288,869; Mar. 25. Class 46.

Agoi Chemical Co., Inc., The, Washington, D. C. Toothbrushes. 295,720; Mar. 25. Class 29.

Alitak Fish Company, Bellingham, Wash., and Kodiak Island, Alaska. Canned salmon. 294,556; Mar. 25. Class 46.

Allied Clothiers, Inc., Chicago, Ill. Men's suits, overcoats, dress shirts, etc. 286,581; Mar. 25. Class 39.

American Central Office of Saint Therese, Manchester, N. H. Statues and medals, badges, etc. 285,766; Mar. 25. Class 50.

American Chicle Company, Long Island City, N. Y. Chewing gum. 294,411; Mar. 25. Class 46.

American Manufacturing Company, Brooklyn, N. Y. Thread and yarn. 289,170; Mar. 25. Class 48.

American Metal Crafts Company, Inc., Attleboro, Mass. Articles made from nonprecious metal. 292,516–17; Mar. 25. Class 50.

American Steel Products Co., Macomb, Ill. Brooders. 289,055; Mar. 25. Class 50.

American Tissue Mills, Holyoke, Mass. Waxed wrapping paper. 290,786; Mar. 25. Class 37.

Atkins, E. C., and Company, Indianapolis, Ind. Handsaw handles, handsaws, crosscut saws, etc. 289,436; Mar. 25. Class 23.

Augstein, S., & Co., New York, N. Y. Sweaters for children. 295,112; Mar. 25. Class 39.

PUBLISHED FOR OPPOSITION

[Act of Feb, 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Babbitt, B. T., Inc., New York, N. Y. Lye. 294,563; Mar. 25. Class 6.
Babbitt, B. T., Inc., New York, N. Y. Lye. 294,567; Mar. 25. Class 6.
Babbitt, B. T., Inc., New York, N. Y. Lye. 294,571; Mar. 25. Class 6.
Beardmore & Company, Toronto, Ontario, Canada. Leather. 296,363; Mar. 25. Class 1.
Berhalter's Health Food Factory, Chicago, Ill. Coffee substitute. 290,810; Mar. 25. Class 46.
Bethlehem Textiles Company, Bethlehem, Pa. Fabrics. 289,178; Mar. 25. Class 42.
Bovaid Company. (See Fitz Gerald, Charles.)
Brame, Robert M., jr., doing business as The Jake Co., North Wilkesboro, N. C. Medical preparation. 295,824; Mar. 25. Class 6.
Brannan, Bunyan B., Roanoke, Ala. Preparation for the treatment of coughs and colds. 293,951; Mar. 25. Class 6.
Brown Company, Portland, Me., and Berlin, N. H. Artificial leather. 294,205; Mar. 25. Class 50.
Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Cigarettes. 275,658; Mar. 25. Class 17.
Bullock's, Inc., Los Angeles, Calif. Women's and children's hosiery. 294,338; published Mar. 25. Class 39.
Burrows, Dudley A., doing busines as M. B. S. Prod. Co., Baltimore, Md. Salve. 294,108; Mar. 25. Class 6.
Burton, Malcome L., Inman, S. C. Electric churns. 291,113; Mar. 25. Class 21.
Carborundum Company, The, Niagara Falls, N. Y. Furnaces and parts thereof, hearths and parts thereof, furnace roofs, etc. 292,095; Mar. 25. Class 34.
Carey Salt Company, The, Hutchinson, Kans. Salt. 293,713; Mar. 25. Class 6.
Cauchois Coffee Company, New York, N. Y. Cocoa preparation combined with milk, skimmed milk, and sugar. 295,780; Mar. 25. Class 46.
Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 294,705–6; Mar. 25. Class 37.
Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 294,708–10; Mar. 25. Class 37.
Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 295,461–2; Mar. 25. Class 37.
Chemosan-Union und Fritz-Pezoldt A. G., Vienna, Austria. Medicaments. 293,465–6; Mar. 25. Class 6.
Chrysler Corporation, Detroit, Mich. Automobiles and their structural parts. 287,330–1; Mar. 25. Class 19.
Cleveland Heater Company, The, Cleveland, Ohio. Water heaters, hot-water-heating systems, bath water heaters, etc. 294,007–8; Mar. 25. Class 34.
Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 292,486; Mar. 25. Class 4.
Conan, Elsie I., doing business as Helene Crystal Laboratory, Venice and Los Angeles, Calif. Skin preparation. 276,460; Mar. 25. Class 6.
Daily Graphic, Inc., New York, N. Y. Series of cartoons or comic strips. 292,985; Mar. 25. Class 38.
Daly, James M., Lynn, Mass. Boots, shoes, and slippers. 295,209; Mar. 25. Class 39.
De Cue's Laboratories. (See Dornbusch, Edward C.)
Dell Publishing Company, New York, N. Y. Bimonthly publication. 295,508; Mar. 25. Class 38.
De Musset, Inc., New York, N. Y. Perfumes, face powders, toilet waters, etc. 295,119; Mar. 25. Class 6.
Derby Oil Company, The, Wichita, Kans. Motor fuels. 288,468; Mar. 25. Class 15.
Detroit Caulking and Weatherproof Cement. (See Grund, William.)
Dolgeville Slipper Company, Inc., Dolgeville, N. Y. Slippers. 295,211; Mar. 25. Class 39.
Dornbusch, Edward C., doing business as De Cue's Laboratories, Cleveland, Ohio. Ointment. 294,343; Mar. 25. Class 6.
Doughnut Machine Corporation, New York, N. Y. Doughnuts, crullers, and fried cakes. 295,471; Mar. 25. Class 46.
Drug Products Co., Inc., The, Long Island City, N. Y. Biliary stimulant. 295,936; Mar. 25. Class 6.
Dunn & McCarthy, Inc., Auburn, N. Y. Leather shoes. 295,296; Mar. 25. Class 39.
Duplan Silk Corporation, New York, N. Y. Piece goods. 296,051; Mar. 25. Class 42.
Dupont, E. I., de Nemours and Company, Wilmington, Del. Fungicide, seed disinfectant. 295,838–9; Mar. 25. Class 6.
Earl, Le-Roy W., doing business as Hi-Rise Baking Powder Company, Chicago, Ill. Baking powder. 295,425; Mar. 25. Class 6.
Eastman Kodak Company, Rochester, N. Y. Adhesive tape. 295,366; Mar. 25. Class 5.
Electrodaire Company, Detroit, Mich. Storage-type automatic electrical water heaters. 294,916; Mar. 25. Class 21.
Electrolux Servel Corporation, New York, N. Y. Refrigerators, refrigerator parts, automatic refrigerators, etc. 296,053; Mar. 25. Class 31.
Electrotrim, Inc., Union City, Ind. Conduits and fittings for the same. 295,212; Mar. 25. Class 21.
Eljer Company, Ford City, Pa. Plumbing fixtures. 286,748–9; Mar. 25. Class 13.
Emery, Elmer O., doing business as Sally Lynn Kitchen, Washington, D. C. Cakes and pies. 293,619; Mar. 25. Class 46.
Everwine, Chas. L., Newark, N. J. Chemical preparation. 295,941; Mar. 25. Class 6.
Exhibit Supply Co. (See Meyer, J. Frank.)
Fashionlane Jewelry Co. (See Wrasiowsky, Arno.)
Federal Phosphorus Company, Birmingham, Ala. Chlorinated aromatic hydrocarbons and their derivatives. 289,015; Mar. 25. Class 6.
Fitz Gerald, Charles, doing business as Bovaid Company, New York, N. Y. Antiseptic wash. 294,755; Mar. 25. Class 6.
Foss, H. D., & Co., Inc., Cambridge, Mass. Candy. 295,895–6; Mar. 25. Class 46.
Fruit Belt Preserving Company, East Williamson, N. Y. Canned soups, vegetables, and fruits. 296,009; Mar. 25. Class 46.
Garland Creamery. (See Southern-Properties, Inc.)
Gemex Company, Newark, N. J. Watch bracelets, watch straps, watch attachments. 295,872; Mar. 25. Class 28.
General Dyestuff Corporation, New York, N. Y. Sulphonated oil. 295,842; Mar. 25. Class 6.
General Electric Company, Schenectady, N. Y. Babbitt metal and cemented tungsten carbide. 293,997; Mar. 25. Class 14.
General Electric Company, Schenectady, N. Y. Pressure gauges, compasses, temperature indicators, etc. 293,998; Mar. 25. Class 26.
General Electric Company, Schenectady, N. Y. Mixed paints, varnishes, prepared shellac, etc. 293,999; Mar. 25. Class 16.
General Electric Company, Schenectady, N. Y. Nonmetallic sheet material. 294,003; Mar. 25. Class 50.
Goldberg, Maurice M., New York, N. Y. Bridge-game lessons, problems, and solutions. 293,096; Mar. 25. Class 22.
Gold Bond Sterilizing Powder Co., Inc., Fairhaven, Mass. Baby powder. 295,945; Mar. 25. Class 6.
Gotham Silk Hosiery Company, Inc., New York, N. Y. Hosiery. 291,724; Mar. 25. Class 39.
Granat, Joseph, doing business as Granat Bros., San Francisco, Calif. Finger rings. 294,111–12; Mar. 25. Class 28.
Gray, Calvin B., Wilmington, Del. Desk reminders. 295,560; Mar. 25. Class 37.
Great Falls Meat Company, Great Falls, Mont. Lard. 294,581; Mar. 25. Class 46.
Gretsch & Brenner, Inc., New York, N. Y. Musical instruments. 295,122; Mar. 25. Class 36.
Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 295,854–5; Mar. 25. Class 28.
Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 295,857; Mar. 25. Class 28.
Grund, William, doing business as Detroit Caulking and Weatherproof Company, Detroit, Mich. Elastic caulk. 285,677; Mar. 25. Class 12.
Hanan, Gerbert W., doing business as Hanan & Son, Brooklyn, N. Y. Leather, cloth, and rubber boots, shoes, and slippers. 294,972; Mar. 25. Class 39.
Hansen, John, & Sons, Oakland, Calif. Coffee. 291,980; Mar. 25. Class 46.
Harris Watch Importing Company, Inc., New York, N. Y. Time recorders, clocks, and watches. 295,735; Mar. 25. Class 27.
Helene Crystal Laboratory. (See Conan, Elsie I.)
Herdt and Charton Incorporated, Montreal, Quebec, Canada. Dress shirts, negligee and work shirts, etc. 282,350; Mar. 25. Class 39.
Hervey, Paul S., Des Moines, Iowa. Printed cards, printed leaflets, foldings, etc. 292,208; Mar. 25. Class 38.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Belting. 295,164; Mar. 25. Class 35.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Hose and belting. 295,167; Mar. 25. Class 35.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Packing. 295,170; Mar. 25. Class 35.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Belting. 295,173; Mar. 25. Class 35.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Hose, belting, and packing. 295,175–6; Mar. 25. Class 35.
Hi-Rise Baking Powder Company. (See Earl, Le-Roy W.)
Hu-Kel Chemical Co. (See Kelly, Edward J.)
Hyrum Syrup Company. (See Richter, Morris.)
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Writing paper, envelopes, wrapping paper, etc. 287,183; Mar. 25. Class 37.
International Extract Co. (See Paul, Milton.)
International Gas Products, Inc., Monroe, La. Carbon black. 295,849–50; Mar. 25. Class 6.
International Nickel Company, Inc., The, New York, N. Y. Ferrous castings. 288,558; Mar. 25. Class 14.
International Products Corporation, New York, N. Y. Cooked meats. 295,374–6; Mar. 25. Class 46.
Jaeckel Mfg. Co., Inc., Providence, R. I. Necklaces, pendants, bracelets, etc. 293,777; Mar. 25. Class 28.
Jake Co., The. (See Brame, Robert M., jr.)

PUBLISHED FOR OPPOSITION

[Act of Feb, 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Johnsonburg Radio Corporation, Johnsonburg, Pa. Radiotubes. 294,774; Mar. 25. Class 21.
K. K. Crystal Company, Inc., New York, N. Y. Metal cabinets. 293,838; Mar. 25. Class 32.
Karsten Statistical Laboratory, Inc., New Haven, Conn. Statistical charts. 294,979; Mar. 25. Class 38.
Keen, Eliot, doing business as Passing Show Publishing Company, New York, N. Y. Periodical. 291,166; Mar. 25. Class 38.
Kelly, Edward J., doing business as Hu-Kel Chemical Co., Washington, Pa. Preparation for treating pain, burns, and soreness. 291,058; Mar. 25. Class 6.
Kemp, Edward F., Somerville, Mass. Candies, and bonbons, nuts, etc. 292,584; Mar. 25. Class 46.
Kiger, C. A., Co., doing business as Virgin Diamond Syndicate, Kansas City, Mo. Diamonds. 295,265; Mar. 25. Class 28.
Kilsem Manufacturing Company, Baltimore, Md. Liquid insecticide. 295,623; Mar. 25. Class 6.
Klauer Manufacturing Company, Dubuque, Iowa. Sheet steel and anvils. 280,712; Mar. 25. Class 14.
Klauer Manufacturing Company, Dubuque, Iowa. Stock and storage tanks and underground garbage receivers. 280,713; Mar. 25. Class 2.
Klauer Manufacturing Company, Dubuque, Iowa. Electric welders and portable electric-lighting plants. 280,715; Mar. 25. Class 21.
Klauer Manufacturing Company, Dubuque, Iowa. Cutter hangers, trough hangers, wire strainers, etc. 280,717; Mar. 25. Class 13.
Knight, Emma L., Baltimore, Md. Educational amusement device for children. 294,586; Mar. 25. Class 22.
Koch, William C., doing business as The Wm. C. Koch Co., St. Paul, Minn. Medicinal vaporizers. 295,837; Mar. 25. Class 44.
Koncen, Viola F., St. Louis, Mo. Ladies' slips and suspenders therefor. 295,481; Mar. 25. Class 39.
Kress, S. H., & Co., New York, N. Y. Plain pins, hairpins, and safety pins. 291,881; Mar. 25. Class 40.
Kress, S. H., & Co., New York, N. Y. Plain pins, hairpins, safety pins. 291,883; Mar. 25. Class 40.
Laboratoires Darrasse, Societe a Responsabilite Limitee, Nanterre, France. Solution of iodine and caffeine. 293,881; Mar. 25. Class 6.
Lelong, Lucien, Inc., Chicago, Ill. Face powder. 295,949; Mar. 25. Class 6.
Level Hat Co., Inc., South Norwalk, Conn. Men's and boys' hats and caps. 294,642; Mar. 25. Class 39.
Lewis, Max, doing business as Lewis Laboratories, Los Angeles, Calif. Vaginal antiseptic jelly. 287,879; Mar. 25. Class 6.
Leyde & Kieswetter, Milwaukee, Wis. Preparation for treating sore throat, etc. 279,053; Mar. 25. Class 6.
Luke, Stevens, doing business as Rose City Chemical Company and Stevens Luke Co., Thomasville, Ga. Preparation used as a mouth wash, etc. 291,003; Mar. 25. Class 6.
M. B. S. Prod. Co. (See Burrows, Dudley A.)
Mack-Elliott Paper Company, St. Louis, Mo. Paper. 288,968; Mar. 25. Class 37.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazine published monthly. 294,925; Mar. 25. Class 38.
Meneray, Roscoe C., doing business as Radiator Seal Company, Council Bluffs, Iowa. Sealing solution. 289,792; Mar. 25. Class 6.
Meyer, J. Frank, doing business as Exhibit Supply Co., Chicago, Ill. Post cards, picture cards, and cards. 270,433; Mar. 25. Class 38.
Miller, Chas. L., & Son, Inc., New York, N. Y. Ladies' and misses' sport coats. 294,231; Mar. 25. Class 39.
Miniature Golf Courses of America, Inc., New York, N. Y., assignor to Tee-O-Matic Golf Company, Inc. Automatic golf teeing device. 293,742; Mar. 25. Class 22.
Mittag & Volger, Incorporated, Park Ridge, N. J. Carbon paper. 295,381; Mar. 25. Class 11.
Moore, Edward M., Warrenville, Ill. Books, bookplates, pamphlets, etc. 292,543; Mar. 25. Class 38.
Moore, William, doing business as William Moore Company, Philadelphia, Pa. Roofing materials. 241,949; Mar. 25. Class 12.
Morley Button Manufacturing Company, Portland, Me., and Portsmouth, N. H. Dry mats for use in the stereotyping process of printing. 295,039; Mar. 25. Class 50.
Mother's Favorite Cookie Company, Glendale, Calif. Cookies and macaroons. 293,337; Mar. 25. Class 46.
Nappanee Lumber & Manufacturing Co., Nappanee, Ind. Card tables and folding tables. 290,374; Mar. 25. Class 32.
National Publishing Co., Philadelphia, Pa. Albums. 294,988; Mar. 25. Class 37.
New England Fish Company, Seattle, Wash. Canned salmon. 288,350–1; Mar. 25. Class 46.
New Waterford Furniture Company, The, New Waterford, Ohio. Furniture. 295,043; Mar. 25. Class 32.
Nu-Craft Hosiery Mills, Inc., Mohnton, Pa. Hosiery. 295,634; Mar. 25. Class 39.
Old Ben Coal Corporation, Chicago, Ill. Coal. 294,436; Mar. 25. Class 1.
Old English Candy Company, Inc., Dover, N. J. Candy and peppermint drops. 295,272; Mar. 25. Class 46.
Pacatome Company, San Francisco, Calif. Diatomaceous silica. 288,978; Mar. 25. Class 1.
Pacific Coast Glass Company, San Francisco, Calif. Glass bottles, jars, jugs, etc. 293,444; Mar. 25. Class 33.
Pacific States Cast Iron Pipe Company, Provo, Utah. Metal pipe and pipe fittings. 295,046; Mar. 25. Class 13.
Passing Show Publishing Company. (See Keen, Eliot.)
Paul, Milton, doing business as International Extract Co., New York, N. Y. True fruit and imitation food flavoring extracts. 295,756; Mar. 25. Class 46.
Payton, Clifford A., doing business as Pleco Products Company, Philadelphia, Pa. Caulking compounds. 293,591; Mar. 25. Class 12.
Pen-O-Pencil Company, New York, N. Y. Pens, pencils, and combination pens and pencils. 267,991; Mar. 25. Class 37.
People's Outfitting Company, Detroit, Mich. Radio receiving sets and parts thereof. 294,737; Mar. 25. Class 21.
Perkins-Goodwin Company, New York, N. Y. Bond and writing paper. 295,232; Mar. 25. Class 37.
Perrone, Giovanni, Genoa, Italy. Metal polish. 284,743; Mar. 25. Class 4.
Pharmaceutische Industrie A. G., Vienna, Austria. Medicinal preparation. 293,484; Mar. 25. Class 6.
Plaza Music Company, New York, N. Y. Phonograph apparatus for recording and reproducing sounds. 294,176; Mar. 25. Class 36.
Pleco Products Company. (See Payton, Clifford A.)
Preston, Harold M., Binghamton, N. Y. Candy. 286,898; Mar. 25. Class 46.
Psi Omega, Pittsburgh, Pa. Pins, Badges, watch charms, and bracelets. 294,441; Mar. 25. Class 28.
Publishers' Fiscal Corporation, New York, N. Y. Periodical. 295,638; Mar. 25. Class 38.
Quality Publications, Inc., New York, N. Y. Periodicals. 294,484–5; Mar. 25. Class 38.
Radiator Seal Company. (See Meneray, Roscoe C.)
Regent Waist & Dress Co., Inc., New York, N. Y. Women's and misses' dresses. 295,052; Mar. 25. Class 39.
Richter, Morris, doing business as Hyrum Syrup Company, Philadelphia, Pa. Maltless beverages and fountain syrups. 295,135; Mar. 25. Class 45.
Rob, Alois, Weil-Friedlingen, Germany. Chemical substances. 296,027; Mar. 25. Class 6.
Rollodor Company, Los Angeles, Calif. Ash-tray stands. 294,181; Mar. 25. Class 32.
Roosendaal, Siegfried, New York, N. Y. Adhesive patching material. 295,495; Mar. 25. Class 5.
Rose City Chemical Company. (See Luke, Stevens.)
Rupert, F. A., Company, Inc, Gloversville, N. Y. Washable leather. 294,122; Mar. 25. Class 1.
S. M. Supplies Co., Boston, Mass. Leather belting. 295,393; Mar. 25. Class 35.
Sally Lynn Kitchen. (See Emery, Elmer O.)
Sands, Percival T., Vancouver, British Columbia, Canada. Tobacconists' supplies. 287,429; Mar. 25. Class 8.
San-Nap-Pak Mfg. Co., Inc., New York, N. Y. Absorbent cotton and gauze and sanitary napkins. 295,763; Mar. 25. Class 44.
Siemen, Fred, doing business as Walco Garment Co., Los Angeles, Calif. Pajamas, shorts for underwear for men, etc. 288,729; Mar. 25. Class 39.
Silva, Manuel S., Decota, Calif. Electric signal lights. 293,490; Mar. 25. Class 21.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Silk crepes in the piece. 294,745; Mar. 25. Class 42.
Smith, W. A., and Son, Detroit, Mich. Ointment. 294,996; Mar. 25. Class 6.
Societe a Responsabilite Rodier, Paris, France. Piece goods. 295,957; Mar. 25. Class 42.
Southern Fruit Distributors, Inc., Orlando, Fla. Fresh citrus fruits and vegetables. 291,742; Mar. 25. Class 46.
Southern-Properties, Inc., doing business as Garland Creamery, Dallas, Tex. Butter. 294,405; Mar. 25. Class 46.
Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Phosphate and lactate mixture. 295,398; Mar. 25. Class 6.
Standard Oil Company of New York, New York, N. Y. Substitute for turpentine. 284,549; Mar. 25. Class 16.
Sterchi Bros. Stores, Inc, Knoxville, Tenn. Phonographs. 291,589; Mar. 25. Class 36.
Structural Slate Co., The, Pen Argyl, Pa. Slate products. 294,598–9; Mar. 25. Class 12.
Supplies, S. M., Co., Boston, Mass. Cut-out paper. 295,395; Mar. 25. Class 37.
Swamp & Dixie Laboratories, Inc., Fort Smith, Ark. Chill and fever tonic. 293,492; Mar. 25. Class 6.
Taboas, Maximo, New York, N. Y. General tonic. 295,583; Mar. 25. Class 6.
Tavannes Watch Co. S. A., Tavannes, Switzerland. Clocks, watches, and parts thereof. 295,646; Mar. 25. Class 27.
Tee-O-Matic Golf Company, Inc. (See Miniature Golf Courses of America, Inc., assignor.)
Temme Manufacturing Co., Chicago, Ill. Signal horn. 294,649; Mar. 25. Class 21.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20. 1905, Sec. 6, as amended Mar. 2, 1907]

Thornton, Renée, New York, N. Y. Astringents, astringent cerates, almond meal, etc. 294,862; Mar. 25. Class 6.
Totten, Doris, doing business as Totten's Chemical Company, Chicago, Ill. Chilblain liniment. 294,190; Mar. 25. Class 6.
Totten, Doris, doing business as Totten's Chemical Company, Chicago, Ill. Preparation for treating ulcerated eyelids. 294,191; Mar. 25. Class 6.
United States Refining Company, Los Angeles, Calif. Oils and greases or petroleum products. 293,389; Mar. 25. Class 15.
Upstarter Company, Inc., The, Beaumont, Tex. Starters for internal-combustion motors. 293,081; Mar. 25. Class 21.
Virgin Diamond Syndicate. (See Kiger, C. A., Co.)
Walco Garment Co. (See Siemen, Fred.)
Wangemann, Dr. Paul, Berlin-Wilmersdorf, Germany. Medicinal preparation. 293,945; Mar. 25. Class 6.
Webster Electric Company, Racine, Wis. Audio frequency amplifiers. 294,327; Mar. 25. Class 21.
Wentworth, O. E., & Co., Baltimore, Md. Raw oysters. 295,285; Mar. 25. Class 46.
Western Medical Clinic, Denver, Colo. Medicinal preparation for blood diseases. 295,104; Mar. 25. Class 6.
Western Seed Company, The, Denver, Colo. Seeds. 294,196; Mar. 25. Class 1.
White-Stokes Co. Inc., Chicago, Ill. Chocolate covering prepared for ice cream. 295,706; Mar. 25. Class 46.
Wire & Steel Products Co., Inc., The, Brooklyn, N. Y. Metal box strapping, steel strapping, and crimp fastenings for same. 294,283; Mar. 25. Class 13.
Wood and English, Limited, Vancouver, British Columbia, Canada. Lumber products. 261,295; Mar. 25. Class 12.
Wood, F. A., & Co., Atlantic City, N. J. Cookies. 295,707; Mar. 25. Class 46.
Wood-Fibre Board Corporation, The, Brunswick, Me., and New York, N. Y. Thermal insulating boards and laths. 294,329–30; Mar. 25. Class 12.
Woodward & Lothrop, Washington, D. C. Sanitary napkins. 295,312; Mar. 25. Class 44.
Wrazlowsky, Arno, doing business as Fashionlane Jewelry Co., Providence, R. I. Finger rings, earrings, bracelets, etc. 286,060; Mar. 25. Class 28.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Asbestos. Satisfaction Supply Co. Inc. 269,055; Mar. 25; Serial No. 285,425; published Dec. 31, 1929.
Cellulose, Caps and bands of. Du Pont Cellophane Company. 269,030; Mar. 25; Serial No. 292,722; published Jan. 14, 1930.
Cellulose, Sheets made of regenerated. Sylvania Industrial Corporation. 269,095; Mar. 25; Serial No. 291,593; published Dec. 31, 1929.
Cellulosic material, Artificial. M. Dassonville. 269,052; Mar. 25; Serial No. 285,862; published Jan. 14, 1930.
Clays. Owyhee Chemical Products Company. 269,106; Mar. 25; Serial No. 290,967; published Jan. 7, 1930.
Coal. Frost Coal Company. 269,049; Mar. 25; Serial No. 286,355; published Dec. 24, 1929.
Coal. Midwest Lumber Company. 269,103; Mar. 25; Serial No. 291,230; published Jan. 14, 1930.
Coal. Seneca Coal and Coke Company. 269,101; Mar. 25; Serial No. 291,244; published Dec. 31, 1929.
Coal. Clyde E. Speer Coal Co. 269,079; Mar. 25; Serial No. 292,424; published Jan. 14, 1930.
Coal and coke. Keystone Coal and Coke Company. 269,116; Mar. 25; Serial No. 288,809; published Jan. 7, 1930.
Diamonds, Noncut industrial. D. Van Itallie. 269,090; Mar. 25; Serial No. 291,897; published Jan. 7, 1930.
Hops. Puritan Malt Extract Company. 269,092; Mar. 25; Serial No. 291,693; published Dec. 31, 1929.
Hops. Puritan Malt Extract Company. 269,093; Mar. 25; Serial No. 291,692; published Jan. 14, 1930.
Hops. J. Sonnenschein Hop Company. 269,051; Mar. 25; Serial No. 285,990; published Jan. 7, 1930.
Leather. Hagerstown Leather Co. 269,105; Mar. 25; Serial No. 291,005; published Dec. 24, 1929.
Leather, Material made from scraps of real. Società Invenzioni Brevetti Anonima-Torino. 269,053–4; Mar. 25; Serial Nos. 285,829–30; published Dec. 31, 1929.
Rubber. Fisk Rubber Company. 269,048; Mar. 25; Serial No. 288,229; published Dec. 31, 1929.
Rubber, uncured sheet rubber, and tire-flap material, Compounded unvulcanized. Fisk Rubber Company. 269,118; Mar. 25; Serial No. 288,230; published Dec. 31, 1929.
Silica. Pacatome Company. 269,114; Mar. 25; Serial No. 288,977; published Dec. 31, 1929.
Silica, Diatomaceous. Pacatome Company. 269,115; Mar. 25; Serial No. 288,974; published Dec. 31, 1929.
Skins and furs. R. Lindner. 75,966; renewed Nov. 30, 1929.
Straw and partly-prepared chip, Partly-prepared. T. Lye & Sons. 73,827; renewed May 25, 1929.

CLASS 3

Covers, Horse. Pittsburgh Waterproof Company. 268,986; Mar. 25; Serial No. 289,801; published Jan. 14, 1930.
Horseshoes. Phoenix Manufacturing Company. 269,042; Mar. 25; Serial No. 293,191; published Jan. 14, 1930.

CLASS 4

Cleaner for false-teeth plates. F. D. Hoham. 268,973; Mar. 25; Serial No. 285,800; published Jan. 14, 1930.
Cleaners, Liquid dry. Useful Products Company. 268,974; Mar. 25; Serial No. 285,052; published Jan. 14, 1930.
Cleaning fluid. Superior Chemical Company. 268,972; Mar. 25; Serial No. 286,085; published Dec. 31, 1929.
Cleaning preparation, Hand. Skat Company. 269,141; Mar. 25; Serial No. 291,040; published Dec. 31, 1929.
Composition, Cleaning. Foster Laboratories, Incorporated. 269,147; Mar. 25; Serial No. 291,213; published Jan. 7, 1930.
Compound, Laundry and washing and cleansing. Minnesota Chemical Co. 269,145; Mar. 25; Serial No. 291,570; published Jan. 14, 1930.
Compounds, Dry-cleaning. U. S. Sanitary Specialties Corporation. 269,153; Mar. 25; Serial No. 287,511; published Jan. 7, 1930.
Compounds for cleaning, shaving cream, soap powder, etc. Cleopatra Chemists Corporation. 268,970; Mar. 25; Serial No. 289,099; published Dec. 31, 1929.
Cream, Shaving. Mark W. Allen & Co. 269,075; Mar. 25; Serial No. 283,928; published Jan. 14, 1930.
Cream, Shaving. Florian, Inc. 269,140; Mar. 25; Serial No. 291,601; published Jan. 14, 1930.
Cream, Shaving. William A. Webster Company. 269,038; Mar. 25; Serial No. 292,143; published Jan. 7, 1930.
Laps and hones and laps and hones of abrasive material, Metallic. Gear Processing, Inc. 268,969; Mar. 25; Serial No. 289,674; published Dec. 31, 1929.
Polish and liquid cleaning fluid. Leeno Products Co. 269,078; Mar. 25; Serial No. 283,190; published Jan. 7, 1930.
Polishes. Reckitts (U. S. A.), Ltd. 269,150; Mar. 25; Serial No. 290,601; published Jan. 7, 1930.
Preparation for cleaning woodwork, china, glass, etc. C. H. Rambonnet. 269,165; Mar. 25; Serial No. 291,577; published Jan. 14, 1930.
Soap. Colgate-Palmolive-Peet Company. 269,028; Mar. 25; Serial No. 292,794; published Jan. 14, 1930.
Soap. Procter & Gamble Company. 269,029; Mar. 25; Serial No. 292,778; published Jan. 14, 1930.
Soap. Procter & Gamble Company. 269,142; Mar. 25; Serial No. 291,857; published Jan. 7, 1930.
Soap, Face. C. E. White. 269,156; Mar. 25; Serial No. 286,350; published Jan. 14, 1930.
Soap, shaving cream and powder, etc. J. B. Williams Company. 269,143; Mar. 25; Serial No. 290,864; published Jan. 7, 1930.
Soap, soap powder, shaving cream, etc. Colgate-Palmolive-Peet Company. 269,034; Mar. 25; Serial No. 292,484; published Jan. 14, 1930.
Soaps and shaving creams. Cheramy, Inc. 269,027; Mar. 25; Serial No. 292,923; published Jan. 14, 1930.
Soaps and shaving creams. Houbigant, Inc. 269,021; Mar. 25; Serial No. 292,946; published Jan. 14, 1930.
Soaps and shaving creams, Toilet. Houbigant, Inc. 269,022; Mar. 25; Serial No. 292,944; published Jan. 14, 1930.
Soaps and shaving creams, Toilet. Houbigant, Inc. 269,023; Mar. 25; Serial No. 292,942; published Jan. 14, 1930.
Soaps and shaving creams, Toilet. Houbigant, Inc. 269,024; Mar. 25; Serial No. 292,940; published Jan. 14, 1930.
Soaps and shaving creams, Toilet. Houbigant, Inc. 269,026; Mar. 25; Serial No. 292,938; published Jan. 14, 1930.
Soaps and shaving creams, Toilet. Houbigant, Inc. 269,137; Mar. 25; Serial No. 292,943; published Jan. 14, 1930.
Steel wool and soap. Manhattan Soap Company. 269,040; Mar. 25; Serial No. 291,886; published Jan. 7, 1930.
Toilet preparations. Mollé Company. 268,971; Mar. 25; Serial No. 286,995; published Dec. 31, 1929.

CLASS 6

Astringents, astringent cerates, bleach creams, etc. Claire Parfumeur, Inc. 269,193; Mar. 25; Serial No. 285,067; published Aug. 6, 1929.
Chemicals and pharmaceutical preparations. Bacorn Company. 79,183; renewed Aug. 16, 1930.

Medicated cigarettes. L. J. Piot. 269,189; Mar. 25; Serial No. 288,479; published Dec. 17, 1929.
Medicine. William H. Rorer, Inc. 269,178; Mar. 25; Serial No. 291,790; published Jan. 7, 1930.
Perfume, toilet water, face powder, etc. Houbigant, Inc. 269,171; Mar. 25; Serial No. 292,941; published Jan. 7, 1930.
Perfumes, toilet waters, face powders, and sachet powders. C. B. Woodworth Sons Co. 77,154; renewed Mar. 15, 1930.
Remedy for rheumatism. Dr. Chas. Bezanson & Co. 75,425; renewed Oct. 5, 1929.
Toilet preparations. C. B. Woodworth Sons Co. 75,597; renewed Oct. 26, 1929.

CLASS 7

Rope, Wire. Mill & Mine Supply Company. 79,508; renewed Sept. 13, 1930.

CLASS 9

Matches. Match Import Company. 269,177; Mar. 25; Serial No. 292,219; published Jan. 14, 1930.

CLASS 12

Bituminous waterproofing material, etc. Benjamin Foster Company Inc. 269,108; Mar. 25; Serial No. 290,828; published Jan. 14, 1930.
Bituminous waterproofing material, etc. Benjamin Foster Company Incorporated. 269,112; Mar. 25; Serial No. 290,214; published Jan. 14, 1930.
Brick. Acme Brick Company. 269,094; Mar. 25; Serial No. 291,600; published Dec. 31, 1929.
Brick, Fire. Harbison-Walker Refractories Company. 269,080–3; Mar. 25; Serial Nos. 292,318–21; published Jan. 14, 1930.
Brick grog. Crushed-fire-. A. P. Green Fire Brick Company. 269,099; Mar. 25; Serial No. 291,450; published Jan. 14, 1930.
Cement and mastic coatings, etc., Roof. Reign-On Products Company. 269,072; Mar. 25; Serial No. 284,694; published Jan. 14, 1930.
Cement, High-tempered fire. Allen & Allen, Inc. 269,091; Mar. 25; Serial No. 291,807; published Jan. 14, 1930.
Cement waterproofing. P. H. Osanne. 269,102; Mar. 25; Serial No. 291,236; published Jan. 14, 1930.
Coating for roofs, Protective. Gibson-Homans Western Company. 269,107; Mar. 25; Serial No. 290,830; published Dec. 24, 1929.
Construction materials. Tremco Manufacturing Company. 269,117; Mar. 25; Serial No. 288,293; published Jan. 7, 1930.
Cottages, Eight-sided. St. Elmo Lumber & Coal Company. 269,109; Mar. 25; Serial No. 290,527; published Dec. 31, 1929.
Flooring, Mastic. Perma-Floor Company. 268,960; Mar. 25; Serial No. 261,645; published Jan. 7, 1930.
Plaster. United States Gypsum Company. 269,084; Mar. 25; Serial No. 292,300; published Jan. 14, 1930.
Plaster, Composition. M. E. Denney. 269,088; Mar. 25; Serial No. 291,965; published Jan. 7, 1930.
Plastic coating for pickling tanks and the like. W. E. Smith. 269,110; Mar. 25; Serial No. 290,438; published Jan. 7, 1930.
Plastic material. Flexibrick Company. 268,953; Mar. 25; Serial No. 278,504; published Apr. 16, 1929.
Roof coating and waterproofing compound. Bonded Materials Company. 269,096–8; Mar. 25; Serial Nos. 291,494–6; published Jan. 14, 1930.
Roofing, Asphalt. Flintkote Company. 269,087; Mar. 25; Serial No. 292,100; published Jan. 14, 1930.
Sheathing, composition shingle slabs, etc. Certain-teed Products Corporation. 269,113; Mar. 25; Serial No. 290,115; published Jan. 14, 1930.
Shingles, Composition. Logan-Long Company. 269,077; Mar. 25; Serial No. 283,575; published Jan. 14, 1930.
Shingles, waterproof building paper, and asphaltic roofing cement, Asphalt roofing. Flintkote Company. 269,086; Mar. 25; Serial No. 292,103; published Jan. 14, 1930.
Stone, Cut. Rockwood Alabama Stone Company. 269,071; Mar. 25; Serial No. 271,269; published Jan. 14, 1930.
Stucco, Colored Gypsum. American Gypsum Company. 269,100; Mar. 25; Serial No. 291,421; published Dec. 24, 1929.

CLASS 13

Chains, Iron and steel. Mill & Mine Supply Company. 78,259; renewed May 31,1930.
Metal conductor-pipe elbows. Klauer Manufacturing Company. 74,470; renewed July 13, 1929.
Stoves and heating apparatus, Certain. Southern Queen Range Mfg. Co. 67,312; renewed Jan. 4, 1930.

CLASS 14

Bronze and other nonferrous metal alloys. Republic Brass Corporation. 268,985; Mar. 25; Serial No. 290,108; published Jan. 7, 1930.
Castings, Abrasive-resisting. L. J. Barton. 269,157; Mar. 25; Serial No. 288,215; published Jan. 7, 1930.
Iron and steel. Rustless Iron Corporation of America. 268,978; Mar. 25; Serial No. 291,580; published Dec. 31, 1929.
Iron, ferrous metal castings, Cast-. Dursar Corporation. 268,977; Mar. 25; Serial No. 291,658; published Dec. 31, 1929.
Metal sheets, Ferrous. American Rolling Mill Co. 269,066; Mar. 25; Serial No. 274,754; published Jan. 7, 1930.
Metals, Nonferrous. Apollo Metal Works. 268,981–4; Mar. 25; Serial Nos. 290,283–6; published Jan. 7, 1930.
Type, Printer's. Continental Typefounders Association, Inc. 268,979; Mar. 25; Serial No. 290,939; published Jan. 7, 1930.

CLASS 23

Beaters and cream whippers, Egg. S. I. Rice. 269,064; Mar. 25; Serial No. 275,455; published Jan. 14, 1930.
Bits and core-working barrels, Earth-boring. Universal Engineering Company. 269,176; Mar. 25; Serial No. 292,801; published Jan. 14, 1930.
Blades and cutters. Haynes Stellite Company. 269,174; Mar. 25; Serial No. 292,608; published Jan. 14, 1930.
Fan for cleaning cotton, Mechanical. Boardman Company. 269,185; Mar. 25; Serial No. 290,540; published Jan. 14, 1930.
Knives and tools, Certain. Snell & Atherton Incorporated. 76,039; renewed Dec. 7, 1930.
Razor blades. W. T. Grant Company. 269,173; Mar. 25; Serial No. 292,725; published Jan. 14, 1930.
Razor blades. B. Kampfe. 269,067; Mar. 25; Serial No. 273,971; published Jan. 8, 1929.
Razor blades. C. Klaas. 268,949; Mar. 25; Serial No. 293,221; published Jan. 14, 1930.
Razors, scissors, shears, and table cutlery. Wester Bros. 76,242; renewed Dec. 28, 1929.
Semaphores. Stuber & Knick Co. 268,948; Mar. 25; Serial No. 293,249; published Jan. 14, 1930.
Sewing machines. National Sewing Machine Company. 268,992; Mar. 25; Serial No. 293,063; published Jan. 14, 1930.
Stoneworking machinery. Lincoln Iron Works. 268,993; Mar. 25; Serial No. 293,054; published Jan. 14, 1930.

CLASS 26

Adding and listing, machines, Combined. Brennan Adding Machine Company. 269,184; Mar. 25; Serial No. 291,201; published Jan. 14, 1930.
Barometers, Aneroid. Waterbury Clock Company. 269,175; Mar. 25; Serial No. 292,427; published Jan. 14, 1930.
Pictures or other sound and light effects and talking-motion-picture films, Apparatus and parts thereof for the synchronous production and reproduction of talking motion. Powers Cinephone Equipment Corporation. 269,190; Mar. 25; Serial No. 287,936; published Jan. 7, 1930.
Pictures or other sound and light effects, Apparatus and parts thereof for the synchronous production and reproduction of talking motion. Powers Cinephone Equipment Corporation. 269,191; Mar. 25; Serial No. 287,934; published Jan. 7, 1930.
Pumps, Self-measuring. R. G. Wilson. 269,182–3; Mar. 25; Serial Nos. 291,255–6; published Jan. 14, 1930.

CLASS 27

Clocks and watches. Western Clock Mfg. Co. 78,751; renewed July 5, 1930.

CLASS 32

Mattresses for beds. J. C. Hirschman Company. 268,994; Mar. 25; Serial No. 293,047; published Jan. 14, 1930.

CLASS 34

Stoves and ranges for cooking and heating. Union Stove Works. 79,240; renewed Aug. 16, 1930.

CLASS 35

Brake linings. Allbestos Corporation. 269,170; Mar. 25; Serial No. 292,964; published Jan. 14, 1930.
Gaskets. Victor Manufacturing & Gasket Co. 269,172; Mar. 25; Serial No. 292,765; published Jan. 14, 1930.
Rubber belting and hose. New York Rubber Corporation. 269,187; Mar. 25; Serial No. 290,789; published Jan. 14, 1930.
Tires, Vehicle. Mohawk Rubber Company. 268,955; Mar. 25; Serial No. 277,633; published Apr. 9, 1929.

CLASS 37

Bookkeeping record forms. H. S. Wittner. 269,122; Mar. 25; Serial No. 292,430; published Jan. 7, 1930.
Crayons. American Crayon Company. 269,129–30; Mar. 25; Serial Nos. 292,241–2; published Jan. 7, 1930.
Filing boxes. Standard Filing Box Company. 268,967; Mar. 25; Serial No. 283,148; published Jan. 7, 1930.
Paper. American Crayon Company. 269,135; Mar. 25; Serial No. 292,090; published Jan. 7, 1930.
Paper. American Writing Paper Company. 269,136; Mar. 25; Serial No. 291,953; published Jan. 7, 1930.
Paper. American Writing Paper Company. 269,159; Mar. 25; Serial No. 291,952; published Jan. 7, 1930.
Paper. American Writing Paper Company. 269,160–2; Mar. 25; Serial Nos. 291,948–50; published Jan. 7, 1930.
Paper. Knight Brothers Paper Company. 269,119; Mar. 25; Serial No. 292,734; published Jan. 7, 1930.

Paper. Knight Brothers Paper Company. 269,138; Mar. 25; Serial No. 292,735; published Jan. 7, 1930.
Paper and envelopes, Writing. Z. & W. M. Crane, Inc. 269,155; Mar. 25; Serial No. 286,536; published Jan. 14, 1930.
Paper, Bond. Apollo Paper Corporation. 269,127; Mar. 25; Serial No. 292,245; published Jan. 7, 1930.
Paper, Bond. Fort Dearborn Lithograph Co. 269,154; Mar. 25; Serial No. 286,755; published Jan. 7, 1930.
Paper, Dull-finished. Martin Cantine Company. 269,125; Mar. 25; Serial No. 292,327; published Jan. 7, 1930.
Paper lining for corrugated paper. Schmidt & Ault Paper Co. 269,126; Mar. 25; Serial No. 292,290; published Jan. 7, 1930.
Paper or fibre board, Composite. Container Corporation of America. 269,148; Mar. 25; Serial No. 291,116; published Jan. 14, 1930.
Paper record sheets and strips, pads, etc. American Sales Book Company. 268,962; Mar. 25; Serial No. 255,586; published Jan. 7, 1930.
Paper, Toilet. Wyoming Valley Paper Mill. 269,151; Mar. 25; Serial No. 289,431; published Dec. 31, 1929.
Paper towels. Bay West Paper Company. 269,133–4; Mar. 25; Serial Nos. 292,197–8; published Jan. 14, 1930.
Papers, Decorative. Pinco Papers, Incorporated. 269,020; Mar. 25; Serial No. 281,789; published Dec. 31, 1929.
Pencils, Lead, coloured, and copying. Schwan-Bleistift-Fabrik A.-G. 269,152; Mar. 25; Serial No. 287,843; published Dec. 31, 1929.
Pencils, pens, leads, and rubber erasers. Brown & Bigelow. 268,961; Mar. 25; Serial No. 236,411; published Feb. 12, 1929.
Pens and pencils, Fountain. Morrison Fountain Co. Inc. 269,120; Mar. 25; Serial No. 292,589; published Jan. 14, 1930.
Pens, Fountain. Kaufmann Bros. & Bondy, Inc. 269,132; Mar. 25; Serial No. 292,213; published Jan. 7, 1930.

CLASS 38

Books. Lothrop, Lee & Shepard Company. 76,077; renewed Mar. 1, 1930.
Books and magazines, Printed. J. Willy. 268,965; Mar. 25; Serial No. 247,509; published Jan. 7, 1930.
Calendars. Catholic Church Extension Society of the United States of America. 269,025; Mar. 25; Serial No. 292,864; published Jan. 14, 1930.
Catalogues, printed folders, magazines. Valley Ranch Co. 269,163; Mar. 25; Serial No. 291,847; published Jan. 7, 1930.
Comic strip. NEA Service, Inc. 269,032; Mar. 25; Serial No. 292,590; published Jan. 14, 1930.
Magazine. Bryan Davis Publishing Co. Inc. 269,144; Mar. 25; Serial No. 290,207; published Dec. 31, 1929.
Magazines. Fawcett Publications, Inc. 269,046; Mar. 25; Serial No. 293,034; published Jan. 14, 1930.
Magazines. Petroleum Engineer Publishing Co. 269,146; Mar. 25; Serial No. 291,526; published Jan. 7, 1930.
Newspaper. Tribune Company. 268,995; Mar. 25; Serial No. 293,297; published Jan. 14, 1930.
Newspaper, Section of a. Newspaper Corporation of America. 269,131; Mar. 25; Serial No. 292,226; published Jan. 7, 1930.
Periodical. William B. Dana Company. 269,031; Mar. 25; Serial No. 292,659; published Jan. 14, 1930.
Periodical. William B. Dana Company. 269,047; Mar. 25; Serial No. 293,029; published Jan. 14, 1930.
Periodical. Management Magazines, Inc. 269,139; Mar. 25; Serial No. 291,679; published Jan. 7, 1930.
Periodical. National Paper and Type Company. 269,035; Mar. 25; Serial No. 292,329; published Dec. 31, 1929.
Periodical. Sperry Flour Company. 268,990; Mar. 25; Serial No. 293,295; published Jan. 14, 1930.
Periodicals. Dell Publishing Company. 269,123; Mar. 25; Serial No. 292,397; published Jan. 7, 1930.
Periodicals. Sky News, Inc. 269,124; Mar. 25; Serial No. 292,338; published Jan. 7, 1930.
Photographs. F. Ford. 269,121; Mar. 25; Serial No. 292,447; published Jan. 7, 1930.
Photographs, portraits, and paintings. M. Strauss. 269,039; Mar. 25; Serial No. 292,017; published Jan. 14, 1930.
Publication. American Occupational Therapy Association. 269,128; Mar. 25; Serial No. 292,243; published Jan. 7, 1930.
Publication. C. H. McCarthy. 269,036; Mar. 25; Serial No. 292,272; published Dec. 31, 1929.
Publication. Meredith Publishing Company. 269,033; Mar. 25; Serial No. 292,587; published Jan. 14, 1930.
Publication. Minnesota Public Health Association. 269,164; Mar. 25; Serial No. 291,695; published Jan. 7, 1930.
Publication. Psi Omega. 269,041; Mar. 25; Serial No. 293,292; published Jan. 14, 1930.
Publication. Rugcrafter Publishing Company. 269,149; Mar. 25; Serial No. 290,859; published Jan. 14, 1930.

CLASS 39

Apparel, Ladies' wearing. American Lady Corset Co. 269,169; Mar. 25; Serial No. 286,217; published Jan. 7, 1930.
Arctics. Beacon Falls Rubber Shoe Company. 268,997; Mar. 25.
Boots and shoes. S. Armishaw. 269,011; Mar. 25; Serial No. 292,649; published Jan. 14, 1930.
Cloaks, suits, dresses, etc. Three Sisters, Inc. 269,007; Mar. 25; Serial No. 290,724; published Jan. 14, 1930.
Clothing. Jaunty Jean Company. 269,010; Mar. 25; Serial No. 290,070; published Jan. 14, 1930.
Clothing, Men's. Curlee Clothing Company. 269,185; Mar. 25; Serial No. 291,118; published Jan. 7, 1930.
Coats, dresses, underwear, and hats, Ladies'. Consolidated Retail Stores, Inc. 268,956; Mar. 25; Serial No. 277,242; published Jan. 7, 1930.
Corsets and brassières. Thompson-Barlow Co. 269,060; Mar. 25; Serial No. 195,466; published Dec. 18, 1928.
Corsets, brassières, and girdles. Kops Bros. Inc. 269,012; Mar. 25; Serial No. 292,633; published Jan. 14, 1930.
Corsets, brassières, girdles, and girdle vests. Thompson-Barlow Company. 269,057; Mar. 25; Serial No. 205,667; published Dec. 18, 1928.
Garters, Men's. Pioneer Suspender Company. 77,050; renewed Mar. 8, 1930.
Girdles and corsets. Thompson-Barlow Company. 269,058–9; Mar. 25; Serial Nos. 200,410–11; published Dec. 18, 1928.
Gloves. Steinberger Bros. Glove Corp. 269,008; Mar. 25; Serial No. 290,435; published Dec. 31, 1929.
Gloves. Stern Brothers. 269,001; Mar. 25; Serial No. 292,235; published Jan. 14, 1930.
Gloves, Gauntlet. Wells-Lamont Manufacturing Company. 269,004; Mar. 25; Serial No. 291,898; published Jan. 14, 1930.
Hats, Men's and women's fur-felt. G. W. Alexander & Co. 269,016; Mar. 25; Serial No. 291,544; published Jan. 7, 1930.
Hats, Women's. Outlet Millinery Company. 269,019; Mar. 25; Serial No. 282,610; published Jan. 7, 1930.
Hosiery and shoes. United Shoe Company. 269,002; Mar. 25; Serial No. 292,131; published Jan. 14, 1930.
Hosiery, girdle vests, and garters. Thompson-Barlow Company. 269,056; Mar. 25; Serial No. 204,843; published Dec. 18, 1928.
Overshirts, overalls, pants, and coats. L. S. Baumgardner & Company. 76,065; renewed Dec. 14, 1929.
Sandals or footholds, Rubber. I. B. Kleinert Rubber Company. 269,074; Mar. 25; Serial No. 284,184; published Jan. 7, 1930.
Shirts, Men's work. Reliance Manufacturing Company. 269,070; Mar. 25; Serial No. 271,511; published Jan. 7, 1930.
Shirts, windbreakers, pajamas, etc. Preferred Shirt Co. 269,186; Mar. 25; Serial No. 290,907; published Dec. 31, 1929.
Shoes. L. Altstadt and E. Waldner. 269,006; Mar. 25; Serial No. 291,075; published Jan. 7, 1930.
Shoes. Buddy-Botti Step Shoe Co. 269,003; Mar. 25; Serial No. 291,904; published Jan. 14, 1930.
Shoes. E. P. Reed & Co. 269,014; Mar. 25; Serial No. 292,462; published Jan. 14, 1930.
Shoes. Wilbar's, Inc. 269,000; Mar. 25; Serial No. 292,698; published Jan. 14, 1930.
Shoes and hosiery. Paris Dry Goods Co. 268,957; Mar. 25; Serial No. 268,384; published Nov. 20, 1928.
Shoes, Athletic. Servus Rubber Company. 268,941; Mar. 25; Serial No. 293,076; published Jan. 14, 1930.
Shoes, Athletic. Servus Rubber Company. 268,943; Mar. 25; Serial No. 293,075; published Jan. 14, 1930.
Shoes, Bathing. I. B. Kleinert Rubber Company. 268,998; Mar. 25; Serial No. 292,997; published Jan. 14, 1930.
Shoes, hats, and belts. Trias-Schubindustrie-Gesellschaft m. b. H. 268,951; Mar. 25; Serial No. 281,025; published Jan. 7, 1930.
Shoes, Leather. Barton Shoe Co. 268,968; Mar. 25; Serial No. 283,028; published Jan. 7, 1930.
Shoes, Leather. S. Dalsimer and Sons. 269,063; Mar. 25; Serial No. 275,769; published Jan. 14, 1930.
Shoes, sandals, slippers, etc. Empire Shoe Corp. 269,009; Mar. 25; Serial No. 290,212; published Jan. 14, 1930.
Shoes, Women's. G. Glaser. 269,013; Mar. 25; Serial No. 292,527; published Jan. 14, 1930.
Suits and overcoats, caps, etc. Franklin Simon & Co. Inc. 269,015; Mar. 25; Serial No. 291,587; published Jan. 7, 1930.
Suits, men's summer suits, etc., Men's wool. Union Company. 269,061; Mar. 25; Serial No. 276,158; published Feb. 19, 1929.
Underwear. Rice-Klein Co. 269,179; Mar. 25; Serial No. 291,789; published Dec. 31, 1929.

CLASS 40

Buckles. Riker Company. 269,018; Mar. 25; Serial No. 282,794; published Jan. 7, 1930.
Straw and chip plait. T. Lye & Sons. 73,884; renewed May 25, 1929.

CLASS 42

Carpets. E. S. Higgins Carpet Company. 34,042; renewed Jan. 16, 1930.
Carpets, Textile. Hardwick & Magee Company. 268,945; Mar. 25; Serial No. 293,868; published Jan. 14, 1930.
Cotton, linen, silk, etc., in the piece. Fred Butterfield & Co. 269,073; Mar. 25; Serial No. 284,438; published Jan. 14, 1930.
Fabrics in the piece. Cheney Brothers. 268,990; Mar. 25; Serial No. 293,092; published Jan. 14, 1930.
Woolen piece goods. Bradford Dyers' Association, Limited. 268,947; Mar. 25; Serial No. 293,260; published Jan. 14, 1930.

Woven, knitted, netted, etc., fabrics in the piece. Cheney Bros. 268,991; Mar. 25; Serial No. 293,090; published Jan. 14, 1930.

CLASS 43

Thread. Roxy Thread Corporation. 269,062; Mar. 25; Serial No. 275,795; published Jan. 14, 1930.
Yarns. Forrest Mercerizing Co. 268,946; Mar. 25; Serial No. 293,316; published Jan. 14, 1930.

CLASS 44

Surgical appliances, Certain. C. Clutbe. 276,713; renewed Feb. 8, 1930.

CLASS 45

Concentrate for manufacturing nonalcoholic beverages, Bottling. Hollywood Dry Corporation. 268,989; Mar. 25; Serial No. 293,220; published Jan. 14, 1930.

CLASS 46

Almonds, Shelled. Habicht, Braun & Co. 76,881–4; renewed Feb. 22, 1930.
Almonds, Shelled. Habicht, Braun & Co. 76,935; renewed Feb. 22, 1930.
Candy. New England Confectionery Company. 269,005; Mar. 25; Serial No. 291,688; published Jan. 7, 1930.
Candy. Sweet Candy Company. 268,964; Mar. 25; Serial No. 250,212; published June 26, 1928.
Candy, nuts, etc. E. F. Kemp. 268,959; Mar. 25; Serial No. 265,655; published Oct. 8, 1929.
Canned fish. Angus Watson & Co. (America) Limited. 269,168; Mar. 25; Serial No. 287,643; published Jan. 14, 1930.
Canned fish. French Sardine Company of California. 268,963; Mar. 25; Serial No. 252,012; published Jan. 14, 1930.
Canned fruits and vegetables. Burt Olney Canning Company. 77,429; renewed Apr. 5, 1930.
Canned fruits, vegetables, berries, etc. Red Owl Stores, Inc. 268,950; Mar. 25; Serial No. 281,567; published Jan. 14, 1930.
Canned salmon. I. Rokeach & Sons, Inc. 269,037; Mar. 25; Serial No. 292,179; published Jan. 14, 1930.
Celery, asparagus, onions, and potatoes, Fresh. Lyons-Clark-Lyons. 268,966; Mar. 25; Serial No. 277,173; published Jan. 14, 1930.
Cereal. Grimth Laboratories, Inc. 268,987; Mar. 25; Serial No. 289,278; published Jan. 14, 1930.
Cereal. Grimth Laboratories, Inc. 268,988; Mar. 25; Serial No. 289,276; published Jan. 14, 1930.
Cocoa. Suchard S. A. 77,966; renewed May 17, 1930.
Cocoa preparation. Cauchois Coffee Company. 269,065; Mar. 25; Serial No. 275,018; published Jan. 8, 1929.
Coffee. C. W. Antrim & Sons. 268,939–40; Mar. 25; Serial Nos. 293,255–6; published Jan. 14, 1930.
Feed, Animal. Ralston Purina Company. 269,158; Mar. 25; Serial No. 285,688; published Jan. 14, 1930.
Feeds, Stock and poultry. E. M. Hart. 269,043; Mar. 25; Serial No. 293,178; published Jan. 14, 1930.
Fish. General Fisheries Corporation. 269,167; Mar. 25; Serial No. 288,851; published Jan. 14, 1930.
Fish and fish fillets. William A. Doe Co. 268,954; Mar. 25; Serial No. 278,030; published Jan. 14, 1930.
Flour. Colorado Milling & Elevator Co. 268,980; Mar. 25; Serial No. 290,821; published Jan. 14, 1930.
Fruit cakes. E. G. Painter. 269,044; Mar. 25; Serial No. 293,170; published Jan. 14, 1930.
Fruit, cantaloupes, and vegetables, Fresh. Hall Packing Co. 268,958; Mar. 25; Serial No. 266,929; published Jan. 14, 1930.
Fruits, Fresh citrus. Gentile Bros. Company. 268,944; Mar. 25; Serial No. 293,040; published Jan. 14, 1930.
Gum, Chewing. J. O. Feinman. 268,942; Mar. 25; Serial No. 293,095; published Jan. 14, 1930.
Oats and oat flakes and also a cereal breakfast food. Rolled. Purity Oats Company. 268,976; Mar. 25; Serial No. 292,900; published Jan. 14, 1930.
Oil, Cottonseed cooking. Armstrong Refining Company. 78,764; renewed July 12, 1930.
Oleomargarine. Baltimore Butterine Co. 268,975; Mar. 25; Serial No. 292,967; published Jan. 14, 1930.
Pineapple, Fresh. Arthur Serra & Co. 268,999; Mar. 25; Serial No. 292,909; published Jan. 14, 1930.
Potatoes and turnips, Fresh. Produce Dealers Supply Company. 269,017; Mar. 25; Serial No. 290,908; published Jan. 14, 1930.
Rice. Louisiana State Rice Milling Company. 269,045; Mar. 25; Serial No. 293,145; published Jan. 14, 1930.
Syrup, Malt. Fecker Company. 269,166; Mar. 25; Serial No. 280,371; published Apr. 23, 1929.
Wheat flakes and rolled oats. Bozeman Milling Company. 78,771; renewed July 12, 1930.

CLASS 48

Beverages, Malt. Peter Doelger Brewing Corporation. 269,181; Mar. 25; Serial No. 291,609; published Jan. 14, 1930.

CLASS 49

Gin made from juniper berries. Dr. H. Schlichte. 269,192; Mar. 25; Serial No. 285,804; published Jan. 14, 1930.
Whiskey. A. Overholt & Company. 269,180; Mar. 25; Serial No. 291,785; published Jan. 14, 1930.

CLASS 50

Cellulose sheets, Moistureproof. Du Pont Cellophane Company. 269,111; Mar. 25; Serial No. 290,808; published Jan. 7, 1930.
Duck or similar awning fabric, Waterproof cotton. Cooley Finishing Company. 269,076; Mar. 25; Serial No. 283,674; published Dec. 31, 1929.
Fabric and cotton duck, Waterproof. Wm. E. Hooper & Sons Co. 269,050; Mar. 25; Serial No. 286,169; published Dec. 24, 1929.
Leather, Manufactured. Società Invenzioni Brevetti Anonima-Torino. 269,068; Mar. 25; Serial No. 271,782; published Dec. 24, 1929.
Leather, Manufactured. Società Invenzioni Brevetti Anonima-Torino. 269,069; Mar. 25; Serial No. 271,777; published Dec. 24, 1929.
Printing plates, Finished. Stetson Press. 269,085; Mar. 25; Serial No. 292,236; published Jan. 14, 1930.
Rubberised fabrics. E. I. du Pont de Nemours and Company. 269,089; Mar. 25; Serial No. 291,912; published Jan. 7, 1930.
Tools, plans, patterns, etc., Package outfits or sets containing. Porter Chemical Company. 269,104; Mar. 25; Serial No. 291,174; published Jan. 7, 1930.
Waterproofed products. Rainized Process Ltd. 268,952; Mar. 25; Serial No. 280,275; published Dec. 31, 1929.

ALPHABETICAL LIST OF LABELS

American Tribute. For Cigars. F. W. Liedtke. 37,288; Mar. 25.
Auto Cold Tablets. For Tablets for Treatment of Coughs and Colds. B. H. Crawford. 37,279; Mar. 25.
Ben Hur General Purpose Dry Battery. For Electric Batteries. Burgess Battery Company. 37,278; Mar. 25.
Butter Nut. For Bread. Schulze Baking Company. 37,291; Mar. 25.
Dexaid—A. For Eczema Medicine. Dedenbach Chemical Company. 37,281; Mar. 25.
Dexaid—B. For Eczema Medicine. Dedenbach Chemical Company. 37,282; Mar. 25.
Elliott's Best. For Ready-Mixed Paints. Elliott Varnish Co. 37,283; Mar. 25.
Flat Wall Paint. For Ready-Mixed Paints. E. C. Benson. 37,277; Mar. 25.
Fort Howard. For Toilet Paper. Fort Howard Paper Company. 37,284; Mar. 25.
Howey Orange Juice. For Orange Juice. Howey-in-the-Hills Juice Company. 37,286; Mar. 25.
Pulaski. For Malt Syrup. Milwaukee Malt Syrup Company. 37,289; Mar. 25.
Rainbow Slip Covers. For Slip Covers. S. E. Hyman Co. 37,287; Mar. 25.
Square-Meal. For Health-Food Mixture of Dried Fruits and Nuts. H. W. Newcomb. 37,290; Mar. 25.
Thin Chocolates. For Candy. Frank G. Shattuck Co. 37,292; Mar. 25.
"Toa-Ka." For Cake. S. C. Cubbison. 37,280; Mar. 25.
Waxed Baking Dishes. For Waxed Paper Dishes. Harvey Paper Products Co. 37,285; Mar. 25.

ALPHABETICAL LIST OF PRINTS

Fashions of the Hour. For Dresses, Coats, Ensembles for Misses and Women. L. Bamberger & Co. 12,457; Mar. 25.
Friendship Sweets. For Candy. C. E. Pittenger. 12,463; Mar. 25.
Healthy and Merry in Their Story-Book World—The Children of Mr. and Mrs. P. A. B. Widener II. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,458; Mar. 25.
Musebeck Flexible Double-Arch Wear Straight Shoes. For Shoes and Insoles for Shoes. Musebeck Shoe Company. 12,462; Mar. 25.
Re-Tube With Majestic Tubes. For Radio Tubes. Grigsby-Grunow Company. 12,460; Mar. 25.
To Thoroughly Cleanse and Deodorise. For a Preparation and a Brush for Cleansing and Purifying Artificial Teeth. Depyto Laboratories. 12,459; Mar. 25.
Waxed Paper Baking Cups. For Waxed-Paper Dishes. Harvey Paper Products Co. 12,461; Mar. 25.
Wise Bow. For Neckties. B. Weissberg. 12,464; Mar. 25.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A/S Krystal. (See Jeremiassen, Finn, assignor.)
Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Apparatus for manufacturing tires. 1,752,186; Mar. 25.
Abbott, Lyle S., Chicago, Ill. Removable furnace roof. 1,751,675; Mar. 25.
Abbott, Lyle S., Chicago, Ill. Composite tile-hanger bar. 1,751,676; Mar. 25.
Acme Wire Company, The. (See Barnum, Marshall, assignor.)
Adam, Otto, Berlin, Germany. Stocking and sock holder. 1,752,219; Mar. 25.
Ahearn, Elizabeth F., Detroit, Mich. Compartment pan. 1,752,137; Mar. 25.
Aiken, Edwin H., Superior, Ariz. Fluid-pressure generator 1,752,052; Mar. 25.
Ainsley, Henry. (See Dean, G., and Ainsley.)
Ainsworth, Howard D., assignor to F. A. B. Manufacturing Company, Berkeley, Calif. Flexible coupling. 1,752,138; Mar. 25.
Air Reduction Company. (See Anderson, James L., assignor.)
Aldrich, Loyd I., assignor to Preferred Oil Burners, Inc., Peoria, Ill. Automatically-controlled oil burner. 1,752,053; Mar. 25.
Allen, Andrew B., Cincinnati, Ohio. Pipe-bending tool. 1,752,220; Mar. 25.
Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine blading. 1,751,570; Mar. 25.
Altman, Vladislav, Racine, Wis. Stop signal. 1,751,969; Mar. 25.
Altvater, Arthur W., St. Louis County, Mo. Marking machine. 1,751,467; Mar. 25.
Aluminum Company of America. (See Archer, Robert S., assignor.)
Aluminum Company of America. (See Winter, William C., assignor.)
American Chain Company. (See Holmes, Bradford B., assignor.)
American Colortype Company. (See Born, Edwin A., assignor.)
American Engineering Company. (See Jones, Earl R., assignor.)
American Gasaccumulator Company. (See Eskilson, Sven A., assignor.)
American Grinder Company. (See Ott, Albert J. and C. L., assignors.)
American La France and Foamite Corporation. (See Patterson, Duncan W., assignor.)
American Meter Company. (See Lucas, John T., assignor.)
American Phototure Company. (See Pifer, George N., assignor.)
American Radiator Company. (See Eggleston, Lewis W., assignor.)
American Sales Book Company. (See Hagemann, Louis F., assignor.)
American Seating Company. (See Hamilton, George H., assignor.)
American Steel Products Co. (See Wells, George M., assignor.)
American Tar Products Company, The. (See Faben, Charles R., assignor.)
American Telephone and Telegraph Company. (See Cunningham, James, assignor.)
American Telephone and Telegraph Company. (See Green, Estill I., assignor.)
American Telephone and Telegraph Company. (See Mitchell, D., and Silent, assignors.)
American Telephone and Telegraph Company. (See Nyquist, Harry, assignor.)
American Well Works, The. (See Sperry, John B., assignor.)
American Writing Paper Company. (See Johnston, James T., assignor.)
Ames, Lewis G., and R. C. Browne, assignors to Richardson Corporation, Rochester, N. Y. Beverage dispenser. Des. 80,768; Mar. 25.
Amstutz, Noah S., Valparaiso, Ind. Folding bookrack. 1,751,677; Mar. 25.
Andersen, George F., assignor to Weltha Process Corporation, Seattle, Wash. Working natural sodium sulphate deposits. 1,751,901; Mar. 25.
Anderson, Adolph E. and A., Lindsborg, Kans. Guard. 1,752,221; Mar. 25.
Anderson, Alfred. (See Anderson, Adolph E. and A.)
Anderson, James L., Tenafly, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Torch apparatus and carton-sealing machine. 1,752,139; Mar. 25.
Anderson, Nels G., Springfield, Ohio, assignor to International Harvester Company. Hood fastener. 1,751,571; Mar. 25.
Anderson, Otto A., Chicago, Ill., assignor to Zangerle & Peterson Company. Davenport or like article. Des. 80,769; Mar. 25.
Anderson, Raymond T., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,752,054; Mar. 25.
Anderson, Raymond T., assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,752,222; Mar. 25.
Anderson, V. D., Company. (See Anderson, Raymond T., assignor.)
Angle, Glenn D., assignor to The Le Blond Aircraft Engine Corporation, Cincinnati, Ohio. Valve-mechanism housing. 1,752,055; Mar. 25.
Apple, Vincent G., Dayton, Ohio. Combined electric starter, battery recharger, and engine supercharger. 1,752,224; Mar. 25.
Archer, Robert S., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Forming articles from heat-treatable aluminum-base alloys. 1,751,468; Mar. 25.
Armentrout, Arthur L., and E. B. Hall, Los Angeles, Calif. Rotary core-drill attachment. 1,751,678; Mar. 25.
Armington, Arthur P. and S. F., Willoughby, assignor to The Euclid Crane & Hoist Company, Euclid, Ohio. Dump trailer. 1,752,056; Mar. 25.
Armington, Stewart F. (See Armington, Arthur P. and S. F.)
Armstrong, Walter J., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Pulverizing machine. 1,751,611; Mar. 25.
Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Combined cigarette container and pyrophoric lighter. Des. 80,770; Mar. 25.
Art Metal Works, Inc. (See Aronson, Louis V., assignor.)
Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau. (See Wünsch, Guido, assignor.)
Atwater Kent Manufacturing Company. (See Bradley, Charles S., assignor.)
Atwater Kent Manufacturing Company. (See Da Costa, Robert C., assignor.)
Austin, Albert D., Portland, Oreg. Carburetor. 1,751,461; Mar. 25.
Austin, Arthur O., near Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator bushing joint. 1,752,281; Mar. 25.
Automatic Moulding Machines Limited. (See Breeden, Francis, assignor.)
Awbrey, Ethel. (See Awbrey, Samuel C., assignor.)
Awbrey, Samuel C., assignor to E. Awbrey, Kansas City, Mo. Screed holder. 1,751,785; Mar. 25.
Bassh-Ross Tool Company. (See Brown, Alvis F., assignor.)
Backman, Charles. (See Smith, V. A., and Backman.)
Backstay Welt Company. (See Best, Frank A., assignor.)
Backus, John C., and W. L. Pierotti, Smethport, Pa.; said Pierotti assignor to said Backus. Handy ash tray and emergency drinking cup. 1,751,463; Mar. 25.
Baird, Archie M., Topeka, Kans. Pressure regulator for air service apparatus. 1,751,970; Mar. 25.
Baker Brothers, Inc. (See Hallenbeck, George E., assignor.)
Baker, James N., Baltimore County, assignor to The Black and Decker Manufacturing Company, Towson Heights, Md. Brush holder for electric tools. 1,751,462; Mar. 25.
Baker Perkins Company. (See Engels, Eugene O., assignor.)
Baker Perkins Company. (See Plater, Albert S., assignor.)
Baker Perkins Company. (See Schmierer, Eugene, assignor.)
Baker Perkins Company Incorporated. (See Harber, L. S., and Pointon, assignors.)
Bamag-Meguin A.-G. (See Kniesel, Richard, assignor.)
Bander, Jacob B., assignor to Full-O-Lite Company, New York, N. Y. Shade holder. 1,752,057; Mar. 25.
Bányai, Maurus, Vienna, Austria, assignor to Vereenigde Knooptapytindustrie Systeem Bányai, Rotterdam, Netherlands. Automatic loom for making real knotted carpets. 1,752,140; Mar. 25.
Barlow, Lester P., Detroit, Mich. Engine-cooling system. Re17,627; Mar. 25.
Barnebey, Oscar L., Detroit, Mich., and M. B. Cheney, deceased, Briggsdale, Ohio; J. B. Cheney, administratrix, assignor to said Barnebey. Manufacture of absorbent carbonaceous material. 1,751,612; Mar. 25.

Barnhart Brothers & Spindler. (See Zimmerman, John W., assignor.)
Barnum, Marshall, assignor to The Acme Wire Company, New Haven, Conn. Producing electric coils. 1,751,971; Mar. 25.
Barrett Company, The. (See McCloskey, Gregory E., assignor.)
Barrett Company, The. (See Stinger, Daniel, assignor.)
Barrett Company, The. (See Talbott, Charles G., assignor.)
Barringer, Elmer D., Cleveland, Ohio. Sash plug. 1,751,679; Mar. 25.
Bartlett Hayward Company, The. (See Wagner, Frederick H., assignor.)
Bayer, Otto. (See von Braun, J., and Bayer.)
Baylis, Walter S., Los Angeles, Calif., assignor to Filtrol Company of California. Apparatus for salvaging used cleaners' gasoline. 1,751,613; Mar. 25.
Bean, Frank D. (See Glidden, A. A., and Bean.)
Beatty, James A. (See Underwood, C. E., and Beatty.)
Beché, Hans, Huckeswagen, Germany. Drop hammer. 1,752,141; Mar. 25.
Beck, Walter A., assignor to Leather Makers' Process Company, Detroit, Mich. Manufacturing leather. 1,751,464; Mar. 25.
Becker, Phillip, jr. (See Lotz, Joseph, assignor.)
Beemer, Miles W., Newark, N. J. Electrical connecter. 1,751,572; Mar. 25.
Bell Telephone Laboratories. (See Whittle, Horace, assignor.)
Bell, William R., Terre Haute, Ind. Poster-sign-removal process. 1,751,469; Mar. 25.
Bellmann, Carl, New York, N. Y. Hangar equipment. 1,751,721; Mar. 25.
Bemis, Albert F., Newton, assignor to Bemis Industries Inc., Boston, Mass. Building construction. 1,752,058; Mar. 25.
Bemis Industries Inc. (See Bemis, Albert F., assignor.)
Benner, Harry P. (See Egloff, G., and Benner.)
Bennett, Reginald J., Spokane, Wash. Cooler. 1,751,851; Mar. 25.
Berger Manufacturing Company, The. (See Moyer, F. H., and Frahm, assignors.)
Berglin, Andrew. (See Howerton, E. C., and Berglin.)
Bergsten, John, Hermosa Beach, Calif. Elevator. 1,751,852; Mar. 25.
Bernstein, Moses K., San Francisco, Calif. Radio clock cabinet. Des. 80,771; Mar. 25.
Best, Frank A., Ford, Ontario, Canada, assignor to Backstay Welt Company, Union City, Ind. Window cushion. 1,751,786; Mar. 25.
Beswick, David, Brooklyn, N. Y. Control mechanism for sewing machines. 1,752,142; Mar. 25.
Bethlehem Steel Company. (See Nieman, Henry W., assignor.)
Bethlehem Steel Company. (See Underwood, C. E., and Beatty, assignors.)
Bezzenberger, Fred K. (See Harshaw, W. J., Savage, and Bezzenberger.)
Binks, Harry D., Oak Park, assignor, by mesne assignments, to Binks Manufacturing Company, Chicago, Ill. Flat-spraying appliance. 1,751,787; Mar. 25.
Binks Manufacturing Company. (See Binks, Harry D., assignor.)
Birchall, Henry, New York, N. Y. Multiple-plug receptacle. 1,752,225; Mar. 25.
Bishinger, Robert, Allison Park, Ross Township, Allegheny County, Pa. Hair-drying device. 1,751,573; Mar. 25.
Bishman, Walter A., Minneapolis, Minn. Storage-battery carrier. 1,752,143; Mar. 25.
Bitgood, Frederick S., San Francisco, Calif. Burner. 1,751,722; Mar. 25.
Bitucrete Limited. (See van Westrum, Leonard S., assignor.)
Bjorge, Guy N., et al. (See von Senden, Boyd V., assignor.)
Black and Decker Manufacturing Company, The. (See Baker, James N., assignor.)
Black, Roe R. (See Coddington, E. D., Kerler, Black, and Owen.)
Bliss Brothers Company. (See Vetter, Louis J., assignor.)
Blitzer, Jacob H., assignor to Lightoller Corporation, New York, N. Y. Lighting-fixture head. Des. 80,772; Mar. 25.
Blue Point Tool Company. (See Gagné, Gideon R., assignor.)
Bobroff, Bornett L., Racine, Wis. Vehicle light. Des. 80,773; Mar. 25.
Bobroff, Bornett L., Milwaukee, Wis. Hospital signaling system. 1,751,972; Mar. 25.
Borgeson, Charles A., San Francisco, Calif. Disappearing lawn sprinkler. 1,751,723; Mar. 25.
Borland, Archie M. jr., Albert Lea, Minn. Display stand. 1,751,505; Mar. 25.
Born, Edwin A., assignor to American Colortype Company, Chicago, Ill. Advertising display stand. 1,751,614; Mar. 25.
Borowka, George, Grand Rapids, Mich. Freight-car-shipping appliance. 1,751,788; Mar. 25.
Bovey, Sidney J. V., Chicago, Ill., assignor, by mesne assignments, to Metalcraft Heater Corporation, Grand Rapids, Mich. Air-circulating device for vehicles, heaters, and the like. 1,751,680; Mar. 25.
Bower, William C., Los Angeles, Calif. Coin handler. 1,751,615; Mar. 25.
Bowne, Mary H., Worcester, Mass. Corset. 1,751,506; Mar. 25.
Braaten, Edward O., and O. B. Harmer, Northfield, Minn. Seed-potato cutter and planter. 1,751,574; Mar. 25.
Bradley, Charles S., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Cabinet for radio receiving apparatus. Des. 80,774; Mar. 25.
Bragg, Adelbert, Marion, Ind. Combination ironing board and breakfast table. 1,752,226; Mar. 25.
Brauning, Karl A., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,752,282; Mar. 25.
Brayton, Harold M., Dover, N. J., assignor to Secretary of War of the United States of America. Combination fuse. 1,751,616; Mar. 25.
Breeden, Francis, assignor to Automatic Moulding Machines Limited, Birmingham, England. Tamping device for use in molding operations. 1,751,465; Mar. 25.
Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Closure for use with burner units. 1,751,973; Mar. 25.
Brewer, Edward, Toronto, Ontario, Canada. Game. 1,751,466; Mar. 25.
Briechle, Ambrosius. (See Goldsmith, B. J., Koeb, and Briechle.)
Briggs, Henry E., assignor of four-tenths to N. J. Smith, Columbia Falls, Mont. Cork puller. 1,752,227; Mar. 25.
Briggs Manufacturing Company. (See Hoskyns, William J., assignor.)
Briggs Manufacturing Company. (See Marshall, William, assignor.)
Briggs Manufacturing Company. (See Morgana, Charles, assignor.)
Bright, George B., Detroit, Mich. Ice-harvesting device. 1,751,617; Mar. 25.
Brillouin, Léon N., Paris, France. Device for producing an electric discharge. 1,752,228; Mar. 25.
Bristol, Edgar H., assignor to The Foxboro Company, Foxboro, Mass. Recording instrument. 1,752,059; Mar. 25.
Broadwood, John, & Sons Limited. (See Collen, Robert H., assignor.)
Bronander, William B., Montclair, N. J. Fire-extinguisher support. 1,751,618; Mar. 25.
Brooks Steam Motors, Limited. (See Clarkson, Alick, assignor.)
Brown, Alvis F., Whittier, assignor to Baash-Ross Tool Company, Incorporated, Los Angeles, Calif. Well tool. 1,751,789; Mar. 25.
Brown, Alvis F., Whittier, assignor to Baash-Ross Tool Company, Incorporated, Los Angeles, Calif. Jar-down spear. 1,751,790; Mar. 25.
Brown, Colonel H., Wellston, Ohio. Intermittent gearing. 1,751,791; Mar. 25.
Brown Company. (See Lovering, E. W., and Van Arsdel, assignors.)
Brown, Lemuel A., Charleston, Wash. Wheeled shopping bag. 1,751,902; Mar. 25.
Brown Line Process Company. (See Hall, Oliver A., assignor.)
Brown-Lipe Gear Company. (See Carhart, George C., assignor.)
Brown Lipe Gear Company, The. (See Sweet, Henry W., assignor.)
Brown, Thomas H., Lansdowne Borough, Pa., assignor, by mesne assignments, to National Sash Weight Corporation, Baltimore, Md. Core-forming apparatus. 1,751,470; Mar. 25.
Browne, Lyle W., assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Vacuum fluid extractor. 1,751,619; Mar. 25.
Browne, Richard C. (See Ames, L. G., and Browne.)
Browning, John B., Camden, N. J. Electrically-wound spring motor. 1,751,903; Mar. 25.
Browning, John B., Camden, N. J. Electrically-wound spring motor. 1,751,904; Mar. 25.
Brucker, Henry, Maplewood, N. J. Cooking apparatus. 1,751,974; Mar. 25.
Brueckel, Lee D., Steubenville, Ohio. Compression brake. 1,752,229; Mar. 25.
Brunette, Joseph W., Fordson, Mich. Syringe. 1,751,507; Mar. 25.
Buck, Edwina, Glendale, Calif. Batter fork. 1,751,853; Mar. 25.
Buck, Glen, Evanston, Ill. Pen-holding device. Des. 80,775; Mar. 25.
Buffalo Forge Company. (See Criqui, Albert A., assignor.)
Burgess, C. F., Laboratories, Inc. (See Loomis, Ralph L., assignor.)
Burkhardt, Conrad C. C., Philadelphia, Pa. Cooling system for internal-combustion locomotives. 1,752,230; Mar. 25.
Burright, Charles L., and M. J. Snyder, Campbell, Calif. Water filter. 1,752,060; Mar. 25.
Burt, Lawrence G., Tulsa, Okla. Long-stroke pumping jack. 1,752,144; Mar. 25.
Busch-Sulzer Bros.-Diesel Engine Company. (See Schaer, Charles, assignor.)
Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Lubricating apparatus. 1,752,270; Mar. 25.
Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Film cut-out. 1,752,258; Mar. 25.

Butler, Henry E., Scotia, N. Y., assignor to General Electric Company. Film cut-out. 1,752,259; Mar. 25.
Button, Cyrus L., Kane, Pa. Lumberman's log grab. 1,751,905; Mar. 25.
Calcott, William S., and H. W. Walker, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Noncorrosive alcoholic solution. 1,752,145; Mar. 25.
Calder, William A. S., Ravensthorpe, Harborne, and W. H. Palmer, Smethwick, Birmingham, England. Gas scrubber. 1,752,260; Mar. 25.
Callahan, George C. (See Howerton, E. C., and Berglin, assignors.)
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Making backing member for slitting machines. 1,752,061; Mar. 25.
Cameron Machine Company. (See Cameron, James A., assignor.)
Campbell, Samuel J., assignor of one-half to Hudson-Sharp Machine Company, Green Bay, Wis. Creping mechanism. 1,751,471; Mar. 25.
Carbide & Carbon Chemicals Corporation. (See Young, Charles O., assignor.)
Carew, Herman, assignor to Individual Drinking Cup Company, Inc., Easton, Pa. Dish holder. Des. 80,776; Mar. 25.
Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission mechanism. 1,752,062; Mar. 25.
Carlson, Edwin G., Riverside, assignor to Speidel Chain Co., Providence, R. I. Bracelet. 1,751,792; Mar. 25.
Carmichael, Andrew J. (See Lawton, H. A., and Carmichael.)
Carr, James A., assignor to Owl Drug Company, San Francisco, Calif. Jar or similar container. Des. 80,777; Mar. 25.
Carter, Charles E., Indianapolis, assignor to Sterling Manufacturing Company, Fort Wayne, Ind. Receptacle. 1,752,146; Mar. 25.
Carter, Frank E. (See Like, Ralph M., assignor.)
Carter, William C., Flint, Mich. Electrically-operated fuel pump for internal-combustion engines. 1,751,975; Mar. 25.
Carter, William C., Flint, Mich. Carburetor. 1,751,976; Mar. 25.
Case, Lynn B., Highland Park, assignor to John Waldron Corporation, New Brunswick, N. J. Tension regulator. 1,752,147; Mar. 25.
Cash, Dallas, Akron, Ohio. Hat. Des. 80,778; Mar. 25.
Cavanagh, John F., Providence, R. I. Piston-ring compressor. 1,751,977; Mar. 25.
Ceglowski, Stephan, Portal, N. Dak. Automobile heating apparatus. 1,752,148; Mar. 25.
Central Engineering and Sales Company. (See Uhri, William C., jr., assignor.)
Central Glass Works. (See Schaub, Edward J., assignor.)
Certain-teed Products Corporation. (See Gardner, Harry F., assignor.)
Certain-teed Products Corporation. (See Spengler, Charles, assignor.)
Charrington, Edmund. (See Fairbrother, H. E., and Charrington.)
Chase Machine Company. (See Chase, S., 4th, and Pfeiffer, assignors.)
Chase, Stephen, 4th, Chicago, and B. S. Pfeiffer, Winnetka, assignors to Chase Machine Company, Chicago, Ill. Cleaning drier. 1,751,681; Mar. 25.
Cheney, Joseph B., administratrix. (See Barnebey, O. L., and Cheney.)
Cheney, Merritt B. (See Barnebey, O. L., and Cheney.)
Chicago Electric Manufacturing Co. (See Oetjen, Howard H., assignor.)
Chicago Hardware Foundry Company. (See Kandel, John S., assignor.)
Christensen, Norman V., and F. F. Zeier, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine. 1,751,508; Mar. 25.
Chrysler Corporation. (See Cripps, Albert A., assignor.)
Cincinnati Ball Crank Company, The. (See Butler, Clyde G., assignor.)
Cincinnati Car Corporation, The. (See Ellis, Charles J., assignor.)
Clark, George H., Cincinnati, Ohio, assignor, by mesne assignments, to Merriman Brothers, Inc., Boston, Mass. Hollow cylinder or bushing and recessing the same. 1,751,906; Mar. 25.
Clark, John T., Lake City, Ark. Cultivator attachment. 1,751,682; Mar. 25.
Clarke, Albert, Des Moines, Iowa. Clamp. 1,751,620; Mar. 25.
Clarkson, Alick, assignor to Brooks Steam Motors, Limited, Stratford, Ontario, Canada. Steam cleaner. 1,752,231; Mar. 25.
Clergue, Francis H., Montreal, Quebec, Canada. Mooring for airships. 1,751,543; Mar. 25.
Cleveland Crane & Engineering Company, The. (See Wehr, William G., assignor.)
Clifford, Charles C., Coleraine, Minn. Lifeboat. 1,752,063; Mar. 25.
Clingestein, Heinrich, Cologne-on-the-Rhine, Germany, and H. W. Grimmel, assignors to General Aniline Works, Inc., New York, N. Y. Primary disazo dye derived from diamino carbazoles and arylides of unsulphonated hydroxy carboxylic acid. 1,751,683; Mar. 25.
Cloran, Henry, Ambleside, England. Eyeshield or guard for use in connection with spectacles, eyeglasses, goggles, or the like. 1,752,233; Mar. 25.
Cloud, Raymond T., assignor to Orchestraphone Company, Chicago, Ill. Switching relay system. 1,751,978; Mar. 25.
Clurman, Will N., Long Beach, N. Y. Circuit maker and breaker. 1,752,149; Mar. 25.
Coddington, E. D., Manufacturing Company. (See Coddington, E. D., Kerler, Black, and Owen, assignors.)
Coddington, Edwin D., Milwaukee, E. A. Kerler, West Allis, Wis., R. R. Black, Pittsfield, Mass., and H. S. Owen, Milwaukee, to E. D. Coddington Manufacturing Company, North Milwaukee, Wis. Cedar plaster. 1,752,232; Mar. 25.
Coffee, Bassett M., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Power transmission. 1,751,576; Mar. 25.
Cole, Theodore S., New Haven, Conn., assignor to The Safety Car Heating & Lighting Company. Generator mounting and drive. 1,751,577; Mar. 25.
Collen, Robert H., East Ham, assignor of one-half to John Broadwood & Sons Limited, London, England. Pianoforte. 1,752,234; Mar. 25.
Collins, William G., Wichita Falls, Tex. Radiator. 1,752,235; Mar. 25.
Colson Company, The. (See Roe, Mayo E., assignor.)
Columbia Fastener Company. (See Kositchek, Leo S., assignor.)
Compagnie des Mines de Vicoigne, Noeux & Drocourt. (See Vieu, C., assignor, and Mourgeon.)
Cone Gearing Corporation. (See Cone, Samuel I., assignor.)
Cone, Samuel I., Portsmouth, assignor to Cone Gearing Corporation, Norfolk, Va. Generating worm gearing. 1,751,540; Mar. 25.
Congdon, Dolly, Grand Rapids, Mich. Combination tray and candle holder. Des. 80,779; Mar. 25.
Conklin, Vernon A., Maplewood, N. J. Electric switch. 1,752,236; Mar. 25.
Connors, Thomas F., Columbus, Ohio, assignor, by mesne assignments, to C. G. McGhie, St. Catharines, Ontario, Canada. Tool. 1,752,064; Mar. 25.
Continental Motors Corporation. (See Kalb, Lewis P., assignor.)
Continental Motors Corporation. (See Kreis, Oscar C., assignor.)
Continental Motors Corporation. (See Niven, Archie M., assignor.)
Cook Electric Company. (See Persons, Lawrence M., assignor.)
Cook, Emma K., St. Louis, Mo. Fan protector. 1,751,798; Mar. 25.
Cooling and Air Conditioning Corporation. (See Fleisher, Walter L., assignor.)
Cooper, Ernest E., St. Stephens, Ala. Coin-controlled liquid-dispensing apparatus. 1,752,150; Mar. 25.
Cooper, Joseph, New York, N. Y. Automatic extensible table. 1,752,065; Mar. 25.
Corbett, John A., assignor to Robert Love Estate, Limited, Honolulu, Hawaii. Box cover or similar article of manufacture. Des. 80,780; Mar. 25.
Cordley, Christopher M., New Canaan, Conn., assignor to Cordley & Hayes, New York, N. Y. Beverage-dispensing apparatus. Des. 80,781; Mar. 25.
Cordley & Hayes. (See Cordley, Christopher M., assignor.)
Corn, James O., Columbia, S. C. Harness-control mechanism for pattern weaving. 1,752,237; Mar. 25.
Cox, David C., Pittsfield, Mass., assignor to General Electric Company. Reclaiming oil. 1,752,238; Mar. 25.
Cox, Maurice C., and R. B. Ryan, Oakland, Calif. Lineboring machine. 1,752,066; Mar. 25.
Cramblet, Paul K., Milwaukee, Wis., assignor to Time-O-Stat Controls Company, Elkhart, Ind. Mercury switch. 1,751,544; Mar. 25.
Crandall, Albert C., Braintree, Mass. Extension boom for derricks. 1,751,794; Mar. 25.
Crankshaw, William G., Chicago, Ill. Dispensing machine. 1,752,067; Mar. 25.
Craven, Alfred B., Selby, England. Manufacture of a solid resin from the semifluid resinous matter extracted from crude gutta-percha and/or balata. 1,751,724; Mar. 25.
Cripps, Albert A., Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation. Adjustable seat. 1,751,907; Mar. 25.
Criqui, Albert A., assignor to Buffalo Forge Company, Buffalo, N. Y. Drying process and apparatus. 1,751,472; Mar. 25.
Cross, Walter M. (See Phillips, Walter B., assignor.)
Cross, Walter M., Kansas City, Mo. Heat exchanger. 1,751,725; Mar. 25.
Crutchlow, William, Fullerton, Pa. Stopping mechanism for looms. 1,751,979; Mar. 25.
Cunningham, James, Riverton, N. J., assignor, by mesne assignments, to American Telephone and Telegraph Company. Electric soldering machine. 1,751,509; Mar. 25.
Cunningham, James, Riverton, N. J., assignor, by mesne assignments, to American Telephone and Telegraph Company. Method and apparatus for making joints. 1,751,510; Mar. 25.
Cutler-Hammer, Inc. (See Packard, Horace N., assignor.)
Cutler-Hammer, Inc. (See Seeger, Edwin W., assignor.)

Da Costa, Robert C., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Radio apparatus. 1,751,854; Mar. 25.

Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Generator drive for railroad cars and the like. 1,751,621; Mar. 25.

Dalton, William, Glenville, N. Y. Railroad-track structure. 1,752,151; Mar. 25.

Dalton, William, Glenville, N. Y. Railroad-track structure. 1,752,152; Mar. 25.

Daly, John J., Newton, assignor to North American Chemical Company, Boston, Mass. Making box toes for shoes. 1,751,545; Mar. 25.

Davidson, James H., and R. S. Wade, assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Gum-stock trimmer. 1,751,575; Mar. 25.

Davis, Alex B., Cincinnati, Ohio, assignor, by mesne assignments, to Keystone Watch Case Corporation, Riverside, N. J. Process of and product for photographic etching. 1,751,908; Mar. 25.

Davis, Alex B., Cincinnati, Ohio, assignor, by mesne assignments, to Keystone Watch Case Corporation, Riverside, N. J. Photographic resist and process of photographic etching. 1,751,909; Mar. 25.

David, David E., Los Angeles, Calif. Laterally-stable air vehicle. 1,751,622; Mar. 25.

Davis, John B., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Liquid-dispensing apparatus. 1,752,068; Mar. 25.

Dean, Andrew W., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Loop bearing. 1,751,980; Mar. 25.

Dean, George, Armthorpe, near Doncaster, and H. Ainsley, Seascale, England; said Ainsley assignor to said Dean. Liquid-supply system. 1,752,261; Mar. 25.

Debski, Frank, New York, N. Y. Chair. Des. 80,782; Mar. 25.

De Ferranti, Sebastian Z., assignor to Ferranti, Limited, Hollinwood, England. Protection of metals. 1,752,239; Mar. 25.

De Forest Radio Telephone & Telegraph Company. (See Logwood, Charles V., assignor.)

De Jong, Hendrik, D. Lely, jr., and R. Shepherd, Eindhoven, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Contact plug. 1,751,981; Mar. 25.

Dekome, Arthur E., Cleveland, Ohio. Ball-bearing roller. 1,751,795; Mar. 25.

Delpech, Ferdinand P. A. E., Paris, France. Time-recording apparatus. 1,751,529; Mar. 25.

Denner, Charlotte I., Santa Rosa, Calif. Crochet needle. 1,751,796; Mar. 25.

Dennison, French E., assignor to National Refrigeration Corporation, Beloit, Wis. Cooling device. 1,751,623; Mar. 25.

De Ram, Georges H. E., Boulogne-sur-Seine, France. Shock absorber. 1,752,240; Mar. 25.

De Stubner, Emile, New York, N. Y. Sensitized coating and method of making and applying same and photographic plate or film produced thereby. 1,752,069; Mar. 25.

Deubener, Walter H., Indianapolis, Ind. Paper shopping bag. 1,751,473; Mar. 25.

Deutsche Asbestwerke A.-G. (See Georgi, Heinrich C., assignor.)

De Young, Christ, Chicago, Ill., assignor to International Harvester Company. Stamping machine. 1,751,578; Mar. 25.

De Zan, Enrico P., Spezia, Italy. Spraying of liquids. 1,752,153; Mar. 25.

Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Broiler. 1,751,726; Mar. 25.

Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Heating element for electric stoves. 1,751,797; Mar. 25.

Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Flue construction. 1,751,798; Mar. 25.

Dickson, George E., Chicago, Ill. Weatherproof nail. 1,751,799; Mar. 25.

Dickson, George E., Chicago, Ill. Weatherproof nail. 1,751,800; Mar. 25.

Diederich, Victor P., Hot Springs, Ark. Combined vent and safety valve. 1,751,684; Mar. 25.

Dillon, Stephen V., Tulsa, Okla, assignor to Smith Separator Company. Rod or tubing guide. 1,751,154; Mar. 25.

Doersch, Maurice, Mount Horeb, Wis. Cultivator. 1,752,070; Mar. 25.

Domenjoz, John, assignor to Domenjoz Sail Plane Co., New York, N. Y. Aircraft. 1,752,241; Mar. 25.

Domenjoz Sail Plane Co. (See Domenjoz, John, assignor.)

Donnelly, George G., Somerville, Mass. Ash sifter. 1,751,541; Mar. 25.

Dörr, Eduard, Elberfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Isolation of benzyl cellulose. 1,751,685; Mar. 25.

Dorsey, Arthur. (See Shapiro, Sam A., assignor.)

Dorsey, Arthur, Brooklyn, N. Y. Clock. 1,751,542; Mar. 25.

Dostal, Joseph L., assignor to E. Holley, Detroit, Mich. Cast-iron mold. 1,751,727; Mar. 25.

Dowagiac Steel Furnace Company. (See McNaney, Ralph S., assignor.)

Doyle, Charles C., Cleveland, Ohio. Regulating the use of street-parking space. 1,752,071; Mar. 25.

Dozier, Daniel C., Norfolk, assignor to Edgerton-Dozier Corporation, Suffolk, Va. Ventilating means for motor vehicles. 1,751,910; Mar. 25.

Dryice Equipment Corporation. (See Martin, James W., jr., assignor.)

Du Brul, Stephen, Jackson, Ohio. Changing plastic material into molds. 1,751,624; Mar. 25.

Dudley, Colon J., Hamburg, N. Y., assignor to The Straight-Side Basket Corporation, Benton Harbor, Mich. Basket machine. 1,751,728; Mar. 25.

Duerk, Frederick C., Defiance, Ohio. Ventilating apparatus for automobiles. 1,751,686; Mar. 25.

Du Feau, Maurice J., Milwaukee, Wis. Electrically-controlled receptacle closure. 1,751,801; Mar. 25.

Dugovic, Ladislav, Chicago, Ill. Window latch. 1,752,242; Mar. 25.

Dunham, George W., assignor to Whirldry Corporation, Utica, N. Y. Washing and drying machine. 1,751,982; Mar. 25.

Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., and Walker, assignors.)

Durametallic Corporation. (See Silter, Leon A., assignor.)

Duro Metal Products Company. (See Peterson, E. H., and McNaught, assignors.)

Eager, Frank L., Waterbury, Conn. Fluctuating leverage engine. 1,751,474; Mar. 25.

Edgerton-Dozier Corporation. (See Dozier, Daniel C., assignor.)

Egarsol Glareless Reflector Co. (See Linton, R., and Jarvis, assignors.)

Eggleston, Lewis W., Clarence Township, Erie County, assignor to American Radiator Company, New York, N. Y. Burner-control means. 1,751,688; Mar. 25.

Egloff, Gustav, assignor to Universal Oil Products Company, Chicago, Ill. Treating hydrocarbon oil. 1,751,731; Mar. 25.

Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating hydrocarbons. 1,751,729; Mar. 25.

Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for cracking oil. 1,751,730; Mar. 25.

Egly, George C., Bensalem Township, Bucks County, Pa. Knitting needle. 1,752,155; Mar. 25.

Electric Boat Company. (See Nibbe, Ernest, assignor.)

Electric Service Supplies Company. (See Lewis, Harry G., assignor.)

Electric Sprayit Company. (See Weiss, Theobald C., assignor.)

Electric Steel Foundry Company. (See Younie, Lewis E., assignor.)

Elliot, John W. T., Allandale, Ontario, Canada. Lubricating device. 1,751,687; Mar. 25.

Ellis, Charles J., assignor to The Cincinnati Car Corporation, Cincinnati, Ohio. Convertible side-door opening for railway cars. 1,751,802; Mar. 25.

Ellis, George, assignor to Scammell China Co., Trenton, N. J. Plate. Des. 80,783; Mar. 25.

Ellis, Howard G. (See Perrault, J. E., and Ellis.)

Enamel Products Company, The. (See Foster, Joseph, jr., assignor.)

Endorf, Alfred H., Wheatland, Iowa. Power scraping machine. 1,752,156; Mar. 25.

Engberg, Karl E. H., Drammen, Norway. Wad for whale guns and the like. 1,752,243; Mar. 25.

Engels, Eugene O., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Wall structure for bake ovens and the like. 1,752,157; Mar. 25.

Engels, Eugene O., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Oven. 1,752,158; Mar. 25.

Engels, Eugene O., assignor to Baker-Perkins Company, Inc., Saginaw, Mich. Wall construction for bake ovens and the like. 1,752,159; Mar. 25.

Engineering Products Corporation. (See Sprong, Severn D., assignor.)

English & Mersick Company, The. (See Goldsmith, B. J., Koeb, and Briechle, assignors.)

Engstrom, Gustaf W., Riverside, Ill., assignor to International Harvester Company. Transmission mechanism for tractors. 1,751,579; Mar. 25.

Ensign Carburetor Company. (See Ensign, Roy F., assignor.)

Ensign, Roy F., South Pasadena, assignor to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,751,983; Mar. 25.

Enterprise Manufacturing Company, The. (See Pfueger, Charles T., assignor.)

Ens, Karl A., Cleveland, Ohio, and D. J. McCormack, York, Pa. Sand separator. 1,751,689; Mar. 25.

Erl, Otto, Denver, Colo. Slicing and grinding machine. 1,752,160; Mar. 25.

Eskilson, Sven A., Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Reflector. 1,751,984; Mar. 25.

Euclid Crane & Hoist Company, The. (See Armington, Arthur P. and S. F., assignors.)

Evans, William L., Washington, Ind. Device for making ring joints. Re17,628; Mar. 25.

Ewen, Harry A., Shenfield, England, assignor to Radio Corporation of America. Electric insulator. 1,751,580; Mar. 25.

F. A. B. Manufacturing Company. (See Ainsworth, Howard D., assignor.)

Faben, Charles R., St. Louis, Mo., assignor to The American Tar Products Company, Chicago, Ill. Waterproof fire-resistant plastic composition. 1,751,690; Mar. 25.

Fairbanks, E. and T., and Company. (See Dean, Andrew W., assignor.)

Fairbrother, Henry E., and E. Charrington, London, England. Carburetor for internal-combustion engines. 1,752,161; Mar. 25.

Fairmont Railway Motors, Inc. (See Kasper, W. F., and McKernan, assignors.)

Farr, Henry V., Ferguson, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Refining and purifying barium sulphate. 1,752,244; Mar. 25.

Fawick, Thomas L., Racine, Wis. Mold for curing hollow molded articles. 1,751,803; Mar. 25.

Federal Phosphorus Company. (See White, Harold E., assignor.)

Fehringer, Charles E., and V. M. Lane, East St. Louis, Ill. Car-retarding rail. 1,752,162; Mar. 25.

Feldheim, Felix S. (See Karbowski, Victor, assignor.)

Felt & Tarrant Manufacturing Company. (See Turck, Joseph A. V., assignor.)

Ferguson, Andrew W., assignor to Lincoln Scale Corporation, Latrobe, Pa. End assembly for drum scale cylinders. 1,751,985; Mar. 25.

Ferranti, Limited. (See de Ferranti, Sebastian Z., assignor.)

Filtrol Company of California. (See Baylis, Walter S., assignor.)

Findriven Syndicaat. (See Meindersma, Wigger, assignor.)

Finkelstein, Samuel. (See Nachman, L., and Finkelstein.)

Fischer, Julius A., Philadelphia, Pa. Tone arm. 1,752,245; Mar. 25.

Fischer, William, New York, N. Y. Extension holder for eyeglasses. 1,751,804; Mar. 25.

Fisher Governor Company, The. (See Browne, Lyle W., assignor.)

Fisher, Henry J., assignor to Novo Engine Company, Lansing, Mich. Internal-combustion engine. 1,751,625; Mar. 25.

Fitz-Empire Double Pivot Last Company. (See Krippendorf, Paul F. W. C., assignor.)

Fitz Gerald, Alan S., Schenectady, N. Y., assignor to General Electric Company. Converting apparatus. 1,752,247; Mar. 25.

Flath, Otto S., Chicago, Ill. Bracket. 1,751,691; Mar. 25.

Flaxman, Louis, Baltimore, Md. Pocketbook. Des. 80,784; Mar. 25.

Fleisher, Walter L., assignor to Cooling and Air Conditioning Corporation, New York, N. Y. Ventilating. 1,751,805; Mar. 25.

Fleisher, Walter L., assignor to The Cooling & Air Conditioning Corporation, New York, N. Y. Ventilating system. 1,751,806; Mar. 25.

Flescher, Louis, Winner, S. Dak., assignor of one-half to M. Levey, Omaha, Nebr. Rotary valve mechanism. 1,751,986; Mar. 25.

Fletcher Works. (See Schaum, Fletcher, assignor.)

Fletcher Works, Incorporated. (See Thomas, Pacific J., assignor.)

Flier, Leo, New York, assignor to Universal Jewelry Case Co., Brooklyn, N. Y. Display holder. 1,752,246; Mar. 25.

Flint, Bradford B., Glens Falls, N. Y. Container for surgical bandages. 1,752,163; Mar. 25.

Flournoy, David M., and P. D. George, St. Louis, Mo. Ornamenting surfaces. 1,752,164; Mar. 25.

Flowers, Harry K., Oakland, Calif. Hot-air furnace. 1,752,168; Mar. 25.

Flynn and Emrich Company. (See Huber, Charles J., assignor.)

Ford, Hannibal C., Jamaica, N. Y. Foldable screen. 1,751,807; Mar. 25.

Ford, Reid G., Scarsdale, assignor to Vapyre Corporation, Pleasantville, N. Y. Apparatus for preparing hydrocarbon mixtures for combustion. 1,752,165; Mar. 25.

Ford, Reid G., Scarsdale, assignor to Vapyre Corporation, Pleasantville, N. Y. Apparatus for preparing hydrocarbon mixtures for combustion. 1,752,166; Mar. 25.

Ford, Reid G., Scarsdale, assignor to Vapyre Corporation, Pleasantville, N. Y. Apparatus for preparing hydrocarbon mixtures for combustion. 1,752,167; Mar. 25.

Foresman, Harry B., Enid, Okla., assignor to Lock Joint Window Company, Kansas City, Mo. Window. 1,752,271; Mar. 25.

Forges & Ateliers de Constructions Electriques de Jeumont, Société Anonyme. (See Letrilliart, Pierre, assignor.)

Forstner Chain Corporation. (See Forstner, William, assignor.)

Forstner, William, assignor to Forstner Chain Corporation, Irvington, N. J. Flexible metallic strap. 1,751,475; Mar. 25.

Foster, Edwin E., Austin, Tex. Hydraulic shock absorber. 1,752,072; Mar. 25.

Foster, Joseph, jr., Bratenhal, assignor to The Enamel Products Company, Cleveland, Ohio. Making enamelware articles. 1,752,073; Mar. 25.

Foster Machine Company. (See McKean, John O., assignor.)

Foucault, Charles M. (See Matabon, J. L., and Foucault.)

Fouts, Samuel E., San Francisco, Calif. Vibrator. 1,751,626; Mar. 25.

Foxboro Company, The. (See Bristol, Edgar H., assignor.)

Frahm, Carl A. (See Moyer, F. H., and Frahm.)

Franchere, F. W., et al. (See Franchere, H. A., and Jepp, assignors.)

Franchere, Harold A., and A. E. Jepp, assignors of seventy per cent to S. L. Sherwin, F. W. Franchere, B. R. Thomas, and C. A. Johnson, Lake Crystal, Minn., and thirty per cent to said Harold A. Franchere. Lubricant-dispensing can. 1,751,732; Mar. 25.

Francis, Jacob R., Flint, Mich. Combined charge and air heater for internal-combustion engines. 1,751,511; Mar. 25.

Franklin Equipment Company. (See Langer, Rudolph J., assignor.)

Franklin Simon & Company. (See Long, Dorothy, assignor.)

Fransen, John E., Brooklyn, N. Y. Educational puzzle. 1,752,248; Mar. 25.

Franzmann, Emile C., West Somerville, Mass. Fountain pen, lever filler. 1,751,855; Mar. 25.

French, Donald E. (See Lewis, A. T., and French.)

French Society "La Roue Elastique." (See Larose, Jean J. C., assignor.)

Fried. Krupp Germaniawerft Aktiengesellschaft. (See Herkt, Ernst, assignor.)

Friedlaender, Isidore L., Detroit, Mich. Hold-down device for automobiles. 1,751,512; Mar. 25.

Frigidaire Corporation. (See Hull, Harry B., assignor.)

Frink, Robert L., Lancaster, Ohio. Method and apparatus for melting glass and the like. 1,751,987; Mar. 25.

Frühbeis, Georg, Berlin-Friedenau, Germany. Ice skate. 1,751,692; Mar. 25.

Fuller Lehigh Company. (See Hardgrove, Ralph M., assignor.)

Fuller Lehigh Company. (See Jacobus, David S., assignor.)

Full-O-Lite Company. (See Bander, Jacob B., assignor.)

Gaede, Frank L., Plymouth, Ind. Water-power generator. 1,751,513; Mar. 25.

Gagné, Gideon R., assignor to Blue Point Tool Company, Milwaukee, Wis. Spanner wrench. 1,752,074; Mar. 25.

Garankin, Theodore P., New York, N. Y. Umbrella attachment. 1,751,514; Mar. 25.

Gardner, Harry F., Buffalo, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation. Adhesive. 1,751,988; Mar. 25.

Gaspari, Joseph, New York, N. Y. Spectacle frame. Des. 80,785; Mar. 25.

Gauthier, Alfred, Calmbach-on-the-Enz, Germany. Photographic lens shutter. 1,751,808; Mar. 25.

General Aniline Works, Inc. (See Clingestein, H., and Grimmel, assignors.)

General Aniline Works, Inc. (See Glietenberg, E., and Sigwart, assignors.)

General Aniline Works, Inc. (See von Braun, J., and Bayer, assignors.)

General Electric Company. (See Butler, Henry E., assignor.)

General Electric Company. (See Cox, David C., assignor.)

General Electric Company. (See Fitz Gerald, Alan S., assignor.)

General Electric Company. (See Kinnard, Isaac F., assignor.)

General Electric Company. (See Lund, Hans, assignor.)

General Electric Company. (See Myers, Thomas G., assignor.)

General Electric Company. (See Prince, David C., assignor.)

General Electric Company. (See Sabbah, Camille A., assignor.)

General Electric Company. (See Stephenson, Hugh M., assignor.)

General Electric Company. (See Tovey, G. H., and Thumim, assignors.)

General Electric Company. (See Treanor, Edward D., assignor.)

Gentle, William M., Los Angeles, Calif. Lubricator. 1,751,693; Mar. 25.

George, Pericles D. (See Flournoy, D. M., and George.)

Georgi, Heinrich C., assignor to Deutsche Asbestwerke A.-G., Berlin-Zehlendorf, Germany. Brake block. 1,751,911; Mar. 25.

Gernandt Motor Corporation. (See Gernandt, Waldo G., assignor.)

Gernandt, Waldo G., South Bend, Ind., assignor to Gernandt Motor Corporation, Chicago, Ill. Feeding fuel to an internal-combustion engine of the high-compression type. 1,751,989; Mar. 25.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Korshenewsky, Nicolai, assignor.)

Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Meissner, Alexander, assignor.)

Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Schröter, Fritz, assignor.)

Gets, Alfred C., Sidney, Ohio. Change-speed gearing for lathe heads. 1,752,249; Mar. 25.

Gilbert & Barker Manufacturing Company. (See Davis, John B., assignor.)

Gilfillan Machine Works, Inc. (See Hixon, John F., assignor.)

Gilkerson, James F., Stillwater, Minn. Shoe. 1,751,990; Mar. 25.

Gilkerson, James F., Milwaukee, Wis. Cushion shoe. 1,751,991; Mar. 25.

Gill, Aaron H., West Haven, Conn. Electric switch for toy electric railways. 1,751,902; Mar. 25.
Gillette, Harry E., Lincoln, Nebr. Locomotive grid screening. 1,751,515; Mar. 25.
Gillis, John H., Gainesville, Tex. Mop holder. 1,752,250; Mar. 25.
Giroux, Charles A., Montreal, Quebec, Canada. Changeable sign. 1,752,251; Mar. 25.
Glasier, Harold H., Los Angeles, Calif. Soil-tilling device. 1,751,694; Mar. 25.
Glenny, Clarence S., Rockford, Ill., assignor to The Washburn Company, Worcester, Mass. Fruit-juice extractor and strainer. 1,751,627; Mar. 25.
Glidden, Alfred A., and F. D. Bean, assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Ornamenting sheet rubber. 1,751,546; Mar. 25.
Glietenberg, Eugen, and A. Sigwart, Leverkusen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyestuffs and preparing same. 1,752,075; Mar. 25.
Glisch, John F., Milwaukee, Wis. Friction clutch. 1,751,809; Mar. 25.
Godbery, Joseph V., San Francisco, Calif. Amplifier. 1,752,252; Mar. 25.
Godet, Raymond, Ploesti, Rumania. Automatic control device for well drilling. 1,752,076; Mar. 25.
Goetzke, Otto, Jersey City, N. J. Safety razor and blade. 1,751,476; Mar. 25.
Goinard, Joseph M. A., St.-Nazaire, France. Power plant. 1,752,253; Mar. 25.
Goldsmith, Bertram J., E. Koeb, N. Y., and A. Briechle, Brooklyn, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn. Window regulator. 1,751,993; Mar. 25.
Goldstine, Harry. (See Gustafson, Adolph P., assignor.)
Goodell-Pratt Company. (See Severance, C. D., and Stetson, assignors.)
Goodrich, B. F., Company, The. (See Jones, W. N., and Winkelmann, assignors.)
Goodrich, B. F., Company, The. (See Mayne, Robert, assignor.)
Goodrich, B. F., Company, The. (See Merz, Christian J., assignor.)
Goodrich, B. F., Company, The. (See Schanz, George H., assignor.)
Goodrich, B. F., Company, The. (See Winkelmann, Herbert A., assignor.)
Goody, Forest D., Denver, Colo. Concentrator. 1,752,109; Mar. 25.
Gosnell, Van G., Hamilton, Ontario, Canada. Facilitating the fitting of shoes. 1,752,254; Mar. 25.
Gould, Arthur R., Kansas City, Kans. Heating device. 1,751,581; Mar. 25.
Graham, Percival G., Enfield, near Sydney, New South Wales, Australia. Lubrication of axles and the like. 1,751,695; Mar. 25.
Granat, Joseph, San Francisco, Calif. Ring shank. Des. 80,786; Mar. 25.
Granat, Joseph, San Francisco, Calif. Ring. Des. 80,787; Mar. 25.
Granat, Joseph, San Francisco, Calif. Ring. Des. 80,788; Mar. 25.
Granular Iron Company. (See Hornsey, John W., assignor.)
Graslewicz, Stanley J., Minneapolis, Minn. Dimmer device for headlights. 1,751,582; Mar. 25.
Gray, Edwin T., assignor to W. H. S. Lloyd Co., New York, N. Y. Wall panel. Des. 80,789; Mar. 25.
Gray, Frederick O. (See Mills, J. B., and Gray.)
Grease-Rite Corporation, The. (See Saxton, John N., assignor.)
Green, Clifford H., Grand Rapids, Mich. Starting and selecting mechanism for automatic musical instruments. 1,752,170; Mar. 25.
Green, Clifford H., assignor to National Piano Mfg. Co., Grand Rapids, Mich. Multirecord controller. 1,752,171; Mar. 25.
Green, Estill I., East Orange, N. J., assignor to American Telephone and Telegraph Company, Common-frequency broadcasting system. 1,751,516; Mar. 25.
Greene, Albert E., Seattle, Wash. Electric induction-furnace process. 1,751,856; Mar. 25.
Greene, Albert E., Seattle, Wash. Electric induction furnace. 1,751,912; Mar. 25.
Greene, Albert E., Medina, Wash. Electric furnace. 1,751,913; Mar. 25.
Greene, Frederick E. (See Thurber, H. F., and Greene.)
Greenwald, Paul, Brooklyn, N. Y., assignor to United Kitchen Equipment Co., Inc. Method of and apparatus for making infusions of coffee, tea, and the like. 1,751,477; Mar. 25.
Gregory, Harold D., Camden, N. J. Self-thawing trap. 1,751,583; Mar. 25.
Greist Manufacturing Company, The. (See Lawton, H. A., and Carmichael, assignors.)
Greist Manufacturing Company, The. (See Thurber, H. F., and Greene, assignors.)
Greve, Edgar E., Bellevue, Pa. Pump barrel. 1,751,914; Mar. 25.
Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Window guide. 1,751,733; Mar. 25.
Grills, Henry M., Toronto, Ontario, Canada. Grenade support for fire extinguishers. 1,751,810; Mar. 25.
Grimmel, Harry W. (See Clingestein, H., and Grimmel.)
Guggenheim, Ezekiel, and H. W. Spellman, Meriden, Conn.; said Spellman assignor to said Guggenheim. Meat tenderer. 1,751,628; Mar. 25.
Guilbault, Russell B., Culver City, Calif. Splicing mold. 1,751,811; Mar. 25.
Gust, Frank, Chicago, Ill. Collapsible bonnet. 1,752,172; Mar. 25.
Gustafson, Adolph P., assignor of one-half to H. Goldstine, Chicago, Ill. Automobile signal. 1,751,812; Mar. 25.
Habif, Vita, South Norwood, Ohio, assignor to The Ohio Automobile Radiator Company, Detroit, Mich. Automatic mechanism for forming radiator cores and the like. 1,752,077; Mar. 25.
Hackford, John E., London, England. Fuel-oil burner. 1,752,173; Mar. 25.
Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,751,547; Mar. 25.
Hager, Chauncey A., jr., Ord, Nebr. Power operated ice-cream freezer. 1,751,813; Mar. 25.
Hale, Cecil G., St. Louis, Mo. Automobile awning. 1,751,478; Mar. 25.
Haley, Kenneth R., Beaver, assignor to The Phoenix Glass Company, Monaca, Pa. Box or similar receptacle. Des. 80,790; Mar. 25.
Hall, Elbert J., Berkeley, Calif., and C. A. Winslow, Michigan City, Ind. Air cleaner. 1,751,915; Mar. 25.
Hall, Elwin B. (See Armentrout, A. L., and Hall.)
Hall, Oliver A., Seattle, Wash., assignor to Brown Line Process Company. Photographic chemical process and material. 1,752,174; Mar. 25.
Hall, Thomas W., Leonard, Ontario, Canada. Flax-pulling mechanism. 1,751,916; Mar. 25.
Hallenbeck, George E., assignor to Baker Brothers, Inc., Toledo, Ohio. Narrow-frame drill press. 1,751,994; Mar. 25.
Halvorsen, Oaf, and S. F. Kiesling, Chicago, Ill. Vise attachment for printing and stenciling devices. 1,752,255; Mar. 25.
Hamilton, George H., assignor to American Seating Company, Grand Rapids, Mich. Chair seat end construction. 1,752,078; Mar. 25.
Hankins, Cyrus, assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md. Railway-car-truck spring. 1,751,917; Mar. 25.
Hannauer Car Retainer Company. (See Hannauer, G., and Wilcox, assignors.)
Hannauer, George, Calumet City, Ill., and E. M. Wilcox, Hammond, Ind., assignors to Hannauer Car Retarder Company, Chicago, Ill. Track brake arrangement and control means therefor. 1,751,995; Mar. 25.
Hänni, Frederich O., Jegenstorf, Switzerland. Gauge for measuring the difference between two pressures. 1,752,256; Mar. 25.
Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Picture transmission. 1,751,584; Mar. 25.
Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Coupling. 1,751,996; Mar. 25.
Hansen, Victor C., Brooklyn, N. Y. Shade hanger. 1,751,517; Mar. 25.
Harber, Laurence S., and J. E. Pointon, Peterborough, England, assignors to Baker Perkins Company Incorporated, New York, N. Y. Machine for the mixing, aerating, and like treatment of various materials. 1,751,548; Mar. 25.
Hardee, Theodore, et al. (See von Senden, Boyd V., assignor.)
Hardgrove, Ralph M., Bethlehem, assignor to Fuller Lehigh Company, Fullerton, Pa. Grinding mill. 1,751,918; Mar. 25.
Hardman, Cornelius B., Columbus, Ohio. Internal-combustion engine. 1,751,919; Mar. 25.
Harmer, Otto R. (See Braaten, E. O., and Harmer.)
Harmes, Edward, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company. Mechanism for forming and handling molds. 1,751,175; Mar. 25.
Harrington, Bertie S., Fort Worth, Tex., assignor to Wolf Machine Company, Cincinnati, Ohio. Carcass splitter. 1,752,257; Mar. 25.
Harrington, Henry B. (See Kline, Charles L., assignor.)
Harrington, James, assignor to Pines Winterfront Company, Chicago, Ill. Theft-preventing device. 1,751,629; Mar. 25.
Harris, John A., Detroit, Mich. Steam motor vehicle. 1,751,734; Mar. 25.
Harshaw, William J., Shaker Heights, P. M. Savage, Elyria, and F. K. Bezzenberger, Cleveland Heights, Ohio, assignors, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y. Anode and making same. 1,751,630; Mar. 25.
Harvey, Tom, Middletown, Ohio. Apparatus for manufacturing paper. 1,752,079; Mar. 25.
Hattori, Kenzo, Saitama-Ken, Japan. Preparing emulsions. 1,752,176; Mar. 25.
Haun, Joye C. (See Nordstrom, S. J., and Haun.)
Hause, Joseph M., Tulsa, Okla. Adjustable shade holder and guide. 1,751,814; Mar. 25.
Hayes, William F., Providence, R. I. Lamp tester. 1,751,860; Mar. 25.

Hedgion, Mead, assignor to M. L. Oberdorfer Brass Company, Syracuse, N. Y. Frame for license plates. 1,752,080; Mar. 25.
Hegg, Edward C., Buffolo, N. Y., assignor to Mojonnier Bros. Co. Machine for cutting and wrapping material. 1,751,586; Mar. 25.
Heinss, Christian F., sr., Fort Madison, Iowa. Dust separator for internal-combustion engines. 1,752,081; Mar. 25.
Helmert, Robert, Berlin-Lichterfelde, and B. Johannesson, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Selector. 1,751,815; Mar. 25.
Hendryx, Andrew B., Company, The. (See Hoefler, George C., assignor.)
Herbig, Elwood H., Great Neck, assignor to C. M. Vought, Greenwolde, Great Neck, N. Y. Aircraft. 1,751,631; Mar. 25.
Herkt, Ernst, Kiel, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Internal-combustion engine. 1,752,082; Mar. 25.
Hess, Simon B., assignor to Holmes Electric Protective Company, New York, N. Y. Burglar-alarm system. 1,752,083; Mar. 25.
Heth, Leon S., East Grand Rapids, Mich. Hydraulic shock diffuser. 1,751,696; Mar. 25.
Hicinbothem, Joseph H., Fort Thomas, Ky. Shade-operating means. 1,751,735; Mar. 25.
Hicks, John N., Los Angeles, Calif. Deep-well pressure recorder. 1,751,632; Mar. 25.
Hilkemeyer, Albert B., Westphalia, Mo. Shipping box for baby chicks. 1,752,177; Mar. 25.
Hiltz, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Printing telegraph. 1,752,084; Mar. 25.
Hinderliter, Frank J., Tulsa, Okla. Jar-rein socket. 1,751,997; Mar. 25.
Hinderliter, Frank J., Tulsa, Okla. Combination tap and die fishing tool. 1,751,998; Mar. 25.
Hines, John C., Chicago, Ill. Apparatus for filtering air. 1,751,999; Mar. 25.
Hinkle, James M., assignor of one-half to R. B. Minton, Barbourville, Ky. Flexible oil can. 1,752,085; Mar. 25.
Hirtz, Heinrich, Ellenburg, Germany. Recovering nitric acid from weak nitric liquors. 1,752,086; Mar. 25.
Hixon, John F., assignor to Gilfillan Machine Works, Inc., Ebenezer, N. Y. Dual fluid-pressure-controlling device. 1,752,087; Mar. 25.
Hoefler, George C., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage body. Des. 80,791; Mar. 25.
Hoefler, George C., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird-cage body. Des. 80,792; Mar. 25.
Holbrook, Charles H. (See Holbrook, Fred E. and C. H.)
Holbrook, Fred E., Elmira, and C. H. Holbrook, Hornell, N. Y. Valve control for driving engines. 1,751,920; Mar. 25.
Holcomb, Alpheus B., assignor to Koehring Company, Milwaukee, Wis. Locomotive crane. 1,751,633; Mar. 25.
Holley, Earl. (See Dostal, Joseph L., assignor.)
Holley, George M. (See Petit, Henry B., assignor.)
Holmes, Bradford B., New York, N. Y., assignor to American Chain Company, Inc. Shock absorber. 1,751,479; Mar. 25.
Holmes Electric Protective Company. (See Hess, Simon B., assignor.)
Holmes, Herbert G., assignor to Novo Engine Company, Lansing, Mich. Power-driven pump. 1,751,634; Mar. 25.
Hood Rubber Company. (See Davidson, J. H., and Wade, assignors.)
Hood Rubber Company. (See Glidden, A. A., and Bean, assignors.)
Hood Rubber Company. (See Perrault, J. E., and Ellis, assignors.)
Hope, Ernest, and A. E. Richards, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon blanks of sheet material. 1,751,549; Mar. 25.
Hopkins Spray Equipment Company. (See Tittemore, F. A., and Renwick, assignors.)
Horne, William O., Minneapolis, Minn. Liquid-fuel burner. 1,752,000; Mar. 25.
Hornsey, John W., Oakes-in-Norton, by Sheffield, England, assignor to Granular Iron Company. Apparatus for reducing oxides of metals. 1,751,736; Mar. 25.
Horra, Wenzel, assignor to the Firm: Sarotti Aktiengesellschaft, Berlin-Tempelhof, Germany. Making a chocolate-covered confection having a liquid mass therein. 1,752,001; Mar. 25.
Hoskyns, William J., assignor to Briggs Manufacturing Company, Detroit, Mich. Vehicle body construction. 1,751,737; Mar. 25.
Howell, James W., assignor to The White Motor Company, Cleveland, Ohio. Elevating mechanism. 1,751,480; Mar. 25.
Howerton, Emery C., and A. Bergiin, assignors of one-third to G. E. Callahan, Denver, Colo. Flange lubricator. 1,751,635; Mar. 25.
Howerton, Emery C., and A. Bergiin, assignors of one-third to G. C. Callahan, Denver, Colo. Pump for flange lubricators. 1,751,636; Mar. 25.
Huber, Charles J., assignor of one-half to Flynn and Emrich Company, Baltimore, Md. Furnace. 1,751,861; Mar. 25.
Hudson-Sharp Machine Company. (See Campbell, Samuel J., assignor.)
Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating and purifying hydrocarbon oils. 1,751,862; Mar. 25.
Huguenin, Fernand L., Portsmouth, Ohio. Fountain-pen gun. 1,752,178; Mar. 25.
Hull, Harry B., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,751,697; Mar. 25.
Hummert, Robert H., assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio. Spotlamp for automobiles and the like. 1,751,863; Mar. 25.
Hump Hairpin Manufacturing Co., The. (See O'Neal, Frank, assignor.)
Hunter, Samuel, Bellevue, Pa. Routing machine. 1,751,816; Mar. 25.
Huntington, Levin B., Annapolis, Md. Artificial bait. 1,752,088; Mar. 25.
Hyde, Reed W., Summit, N. J. Preparing alumino-thermic mixture. 1,751,550; Mar. 25.
Hynes, Francis W., Springfield, Mass. Game device. 1,752,089; Mar. 25.
Ideal Electric & Manufacturing Company, The. (See Schou, Theodor, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Dörr, Eduard, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lindner, Felix, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lindner, F., and Link, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Stoewener, Fritz, assignor.)
Individual Drinking Cup Company. (See Carew, Herman, assignor.)
Ingersoll-Rand Company. (See Peters, Arthur E., assignor.)
International Harvester Company. (See Anderson, Nels G., assignor.)
International Harvester Company. (See De Young, Christ, assignor.)
International Harvester Company. (See Engstrom, Gustaf W., assignor.)
International Harvester Company. (See Raney, C. R., and Johnson, assignors.)
International Harvester Company. (See Smith, Ernest C., assignor.)
International Motor Company. (See Masury, Alfred F., assignor.)
International Nickel Company, The. (See Harshaw, W. J., Savage, and Bezzenberger, assignors.)
International Precipitation Company. (See Viets, Floyd H., assignor.)
Isgur, Louis, Roxbury, Boston, Mass. Skylight. 1,752,002; Mar. 25.
Jablonsky, Bruno, Berlin, Germany. Automobile direction indicator. 1,751,637; Mar. 25.
Jackson, Florence M. (See Overshiner, Ellsworth B., assignor.)
Jacobsen, Johan S., Lodi, Calif. Dust-eliminating air duct for radiators. 1,751,739; Mar. 25.
Jacobsen, Kai A., Copenhagen, Denmark, assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del. Manufacture of yeast. 1,752,003; Mar. 25.
Jacobson, John A., et al, administrators. (See Osterlind, August F.)
Jacobus, David S., Jersey City, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Boiler and setting therefor. 1,751,551; Mar. 25.
James, Henry V., Radlett, England. Electric-motor-control system. 1,752,179; Mar. 25.
Jaqua, John B., Alhambra, Calif. Oil-cracking process. 1,752,004; Mar. 25.
Jarvis, William J. (See Linton, R., and Jarvis.)
Jeffrey Manufacturing Company, The. (See Armstrong, Walter J., assignor.)
Jelliffe, Howard W., Cleveland, Ohio. Watch-winding mechanism. 1,751,698; Mar. 25.
Jepp, Augustus E. (See Franchere, H. A., and Jepp.)
Jeremiassen, Finn, assignor to A/S Krystal, Oslo, Norway. Separately recovering soluble substances in a coarse granular condition. 1,751,740; Mar. 25.
Johannesson, Benno. (See Helmert, R., and Johannesson.)
Johannsen, Ernst, assignor to Schaefer & Fiedelmeier, Hamburg, Germany. Closure for bottles and jars. 1,752,090; Mar. 25.
Johnson, Arnold E. W. (See Raney, C. R., and Johnson.)
Johnson, C. A., et al. (See Franchere, H. A., and Jepp, assignors.)
Johnson, Charles B., Seymour, Tex. Delayed circuit-breaking light switch. 1,752,091; Mar. 25.
Johnson, Louis C., Fayette, Ala. Stringed musical instrument. 1,752,180; Mar. 25.
Johnson, Neville G., Hove, England. Winding up of spring-driven devices. 1,752,181; Mar. 25.
Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Strainer nozzle. 1,751,638; Mar. 25.
Johnston, James T., assignor to American Writing Paper Company, Holyoke, Mass. Covering for plater rolls. 1,752,005; Mar. 25.

Jones, Earl R., assignor to American Engineering Company, Philadelphia, Pa. Current collector for hoisting apparatus. 1,752,182; Mar. 25.
Jones, Webster N., and H. A. Winkelmann, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Rubber derivative and making same. 1,751,817; Mar. 25.
Jordan, Harding O., Langston, Okla. Cigarette case. 1,751,921; Mar. 25.
Jorgensen, Hans G., Erie, Pa. Antirattler for windows. 1,751,699; Mar. 25.
Joseph, Joe H., Cincinnati, Ohio. Washing machine. 1,751,922; Mar. 25.
Joyce-Pridland Company, The. (See Von Kert Hott, Ion.)
Junkers, Hugo, Dessau, Germany. Dock for flying machines. 1,751,639; Mar. 25.
Kalb, Lewis P., assignor to Continental Motors Corporation, Detroit, Mich. Pump. 1,752,006; Mar. 25.
Kalman Steel Company. (See White, William E., assignor.)
Kandel, John S., Chicago, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Tray attachment for smokers' and like stands. 1,752,272; Mar. 25.
Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Structural material. 1,751,923; Mar. 25.
Kapeluchnikoff, Mathieu A., Baku, Russia. Expansible boring tool for hydraulic boring appliances. 1,752,092; Mar. 25.
Karbowski, Victor, Chicago, assignor to F. S. Feldheim, Evanston, Ill. Internal spring-metal reenforcing member. 1,751,741; Mar. 25.
Karitzky, John, assignor to Henry B. Newhall Corporation, Garwood, N. J. Bolt anchor. 1,751,818; Mar. 25.
Karle Lithographic Company. (See Paris, George W., assignor.)
Kasper, Walter F., Fairmont, Minn., and E. J. McKernan, Topeka, Kans., assignors to Fairmont Railway Motors, Inc., Fairmont, Minn. Set-off vehicle top. 1,751,924; Mar. 25.
Kehoe, Richard D., New York, N. Y. Method of and apparatus for drying wood pulp and the like. 1,751,552; Mar. 25.
Kelch, James W. (See Sunday, James J., assignor.)
Kell, George, Louisville, Ohio. Tail skid for aircraft. 1,752,183; Mar. 25.
Kelley, Lillus A., Calistoga, Calif. Fastening device for garment straps. 1,751,925; Mar. 25.
Kerler, Ernest A. (See Coddington, E. D., Kerler, Black, and Owen.)
Keystone Watch Case Corporation. (See Davis, Alex B., assignor.)
Kidde, Walter, & Company. (See Mapes, Daniel, assignor.)
Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Container. 1,751,926; Mar. 25.
Kielberg, Henry, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Container. 1,751,927; Mar. 25.
Kesling, Samuel F. (See Halvorsen, O., and Kiesling.)
Kimp, John, Grand Rapids, Mich. Drop-leaf table. 1,751,586; Mar. 25.
King, Robert L., Richmond, Va. Compressor. 1,752,093; Mar. 25.
Kinnard, Isaac F., Lynnfield, Mass., assignor to General Electric Company. Induction watt-hour meter. 1,752,094; Mar. 25.
Klein, John W. (See Nettle, T. B., and Klein.)
Kline, Charles L., assignor to H. B. Harrington, Buffalo, N. Y. Attachment for gas heaters. 1,752,007; Mar. 25.
Kloss, Vitalis M., Minneapolis, Minn. Bottle-capping machine. 1,752,008; Mar. 25.
Kniesel, Richard, assignor to Bamag-Meguin A.-G., Berlin, Germany. Filter. 1,751,819; Mar. 25.
Knudson, Jalmer, Minneapolis, Minn. Locomotive nozzle restrictor. 1,751,820; Mar. 25.
Koch, Emil E., Stanton, Nebr. Tongue extension. 1,751,700; Mar. 25.
Koeb, Emil. (See Goldsmith, B. J., Koeb, and Briechle.)
Koehring Company. (See Holcomb, Alpheus E., assignor.)
Kositchek, Leo S., assignor to Columbia Fastener Company, Chicago, Ill. Mucilage dispenser. Des. 80,793; Mar. 25.
Kramer, Abraham, New York, N. Y. Light fixture having removable panels. 1,751,864; Mar. 25.
Kramer, Samuel, New York, N. Y. Light fixture. Des. 80,794; Mar. 25.
Krasselt, Robert C., Leipsig, Germany. Locking device for closet and lavatory doors. 1,751,821; Mar. 25.
Kreis, Oscar C., assignor to Continental Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,752,009; Mar. 25.
Krippendorf, Paul F. W. C., Lynn, Mass., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Shoe and insole. 1,751,742; Mar. 25.
Kritchevsky, Wolf, H. C. Prutsman, and E. Morrill, assignors to Kit Products Corporation, Chicago, Ill. Dye. 1,752,184; Mar. 25.
Krupinski, Nellie. (See Smitt, Frank, assignor.)
Küchenmeister, Heinrich, Berlin, Germany. Acoustic apparatus, particularly signaling apparatus. 1,752,185; Mar. 25.
Kudsia, Ludwik, Jaraczew, Poland. Snowplow for engines. 1,751,822; Mar. 25.
Labovitz, Samuel, Minneapolis, Minn. Garment. 1,752,186; Mar. 25.
Lachner, Martin, Delawana, N. J. Sand spreader for trucks. 1,751,928; Mar. 25.
Laird, Herbert W., Tampa, Fla. Health suspender shirt. 1,751,701; Mar. 25.
Lamkey, William A., Dearborn, Mich. Target towing and releasing device. 1,752,010; Mar. 25.
Lampert, Henry H., Chicago, Ill. Adjusting tool for form ties. 1,751,823; Mar. 25.
Lancaster Asphalt, Inc. (See Robinson, Thomas, assignor.)
Landwehr, Frank G., Detroit, Mich. Propelling means for airships. 1,751,824; Mar. 25.
Lane, Virgil M. (See Fehringer, C. E., and Lane.)
Langer, Rudolph J., assignor to Franklin Equipment Company, Monticello, Iowa. Stanchion. 1,752,095; Mar. 25.
Larose, Jean J. C., St. Cloud, assignor to the French Society "La Roue Elastique," Billancourt, Seine, France. Flexible wheel. 1,751,929; Mar. 25.
La Rue, John B. (See Scofield, S. W., and La Rue.)
La Tourrette, Willett J., Denver, Colo. Dandelion cutter and lifter. 1,751,481; Mar. 25.
Latter, Thomas L., Chicago, Ill. Treating pictures. 1,752,011; Mar. 25.
Lauchin, George Y., Milwaukee, Wis. Aeroplane. 1,752,012; Mar. 25.
Lawton, Harris A., and A. J. Carmichael, New Haven, Conn., assignors to The Geist Manufacturing Company. Sewing-machine ruffler. 1,752,096; Mar. 25.
Leach Company. (See Leach, Elbert C., assignor.)
Leach, Elbert C., assignor to Leach Company, Oshkosh, Wis. Pike construction. 1,752,013; Mar. 25.
Leasman, Emil L., Milwaukee, Wis. Core and forming the same. 1,751,482; Mar. 25.
Leather Makers' Process Company. (See Beck, Walter A., assignor.)
Le Blond Aircraft Engine Corporation, The. (See Angle, Glenn D., assignor.)
Leech, Aubrey B., Los Angeles, Calif. Shadow-motion display means. 1,752,014; Mar. 25.
Leeds & Northrup Company. (See Wunsch, Felix, assignor.)
Lefebvre, Fernand E., Clichy, assignor to L'Oxhydrique Francaise, Malakoff, Seine, France. Apparatus for the production of hydrogen. 1,752,187; Mar. 25.
Legge, Peter S., Somerville, Mass. Polishing head. 1,751,930; Mar. 25.
Legge, Peter S., Pompton Lakes, N. J. Stoneworking machine. 1,751,931; Mar. 25.
Lely, Dirk, jr. (See DeJong, H., Lely, and Shepherd.)
Lemont, Clarence J., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Lighting fixture. 1,751,483; Mar. 25.
Letrilliart, Pierre, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Société Anonyme, Paris, France. Compensated asynchronous electric motor. 1,751,484; Mar. 25.
Levey, Morris. See Flescher, Louis, assignor.)
Lewis, Alexander T., and D. E. French, Marion, assignors to York Heating and Ventilating Corporation, Philadelphia, Pa. Brazing heating coils. 1,751,865; Mar. 25.
Lewis, Harry G., assignor to Electric Service Supplies Company, Philadelphia, Pa. Headlight. 1,752,273; Mar. 25.
Liebergeld, Paul, Bad Thal, Germany. Mechanical time fuse. 1,752,188; Mar. 25.
Lightoller Corporation. (See Blitzer, Jacob H., assignor.)
Like, Ralph M., Los Angeles, assignor to F. E. Carter, Brawley, Calif. Continuous projector. 1,751,702; Mar. 25.
Lincoln Electric Company, The. (See Taylor, Maurice R., assignor.)
Lincoln Scale Corporation. (See Ferguson, Andrew W., assignor.)
Lindhorst, Frederick L., assignor to White Showers Inc., Detroit, Mich. Irrigating device. 1,751,640; Mar. 25.
Lindhorst, Frederick L., assignor to White Showers Inc., Detroit, Mich. Automatic sprinkler. 1,751,641; Mar. 25.
Lindner, Felix, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Salts of alkaline earth metals. 1,751,932; Mar. 25.
Lindner, Felix and F. Link, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of hydrocyanic acid. 1,751,933; Mar. 25.
Line Material Company. (See Lemont, Clarence J., assignor.)
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Link, Friedrich. (See Lindner, F., and Link.)
Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Engine. 1,751,748; Mar. 25.
Linton, Reginald, and W. J. Jarvis, assignors to The Egarsol Glareless Reflector Co., Ltd., Sydney, Australia. Antiglare reflector. 1,751,934; Mar. 25.
Lloyd, W. H. S., Co. (See Gray, Edwin T., assignor.)
Lochs, Theo. A., Company. (See Schwarzkopf, Arthur R., assignor.)

Lock Joint Window Company. (See Foresman, Harry B., assignor.)
Locke & Co. (See Tasman, George, assignor.)
Loewe, Siegmund, Berlin, Germany, assignor to Radio Corporation of America. Electrical high-resistance unit. 1,751,587; Mar. 25.
Loewe, Siegmund, Berlin, Germany, assignor to Radio Corporation of America. Wireless receiving set for compensating disturbances. 1,751,588; Mar. 25.
Logwood, Charles V., assignor to De Forest Radio Telephone & Telegraph Company, Jersey City, N. J. Frequency-changing method and means. 1,751,485; Mar. 25.
Long, Daniel D., by decree of distribution to M. Long, Boise, Idaho. Pump. 1,751,703; Mar. 25.
Long, Dorothy, assignor to Franklin Simon & Company, New York, N. Y. Dress. Des. 80,795; Mar. 25.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,796; Mar. 25.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,797; Mar. 25.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,798; Mar. 25.
Long, Herbert J., New Brunswick, N. J. Hot-water heater. Des. 80,799; Mar. 25.
Long, Martha, by decree of distribution. (See Long, Daniel D.)
Loomis, Ralph L., Boston, Mass., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Apparatus for making fibrous material. 1,751,866; Mar. 25.
Lorenz, C., Aktiengesellschaft. (See Helmert, R., and Johannesson, assignors.)
Lotter, Adolph G., assignor to Stationers Loose Leaf Co., Milwaukee, Wis. Loose-leaf binder. 1,751,553; Mar. 25.
Lotter, Adolph G., assignor, by mesne assignments, to Stationers Loose Leaf Co., Milwaukee, Wis. Loose-leaf binder. 1,751,599; Mar. 25.
Lotz, Joseph, Euclid, assignor of one-half to P. Becker, jr., Cleveland, Ohio. Jar-cover remover and fastener. 1,752,189; Mar. 25.
Love, Robert, Estate, Limited. (See Corbett, John A., assignor.)
Lovering, Everett W., and W. B. Van Arndel, assignor to Brown Company, Berlin, N. H. Waterproof fiber article and manufacturing the same. 1,751,935; Mar. 25.
Lowe, Joseph N., New York, N. Y. Hand bag. 1,751,936; Mar. 25.
L'Oxhydrique Francaise. (See Lefebvre, Fernand E., assignor.)
Lucas, John T., Minneapolis, Minn., assignor to American Meter Company, Incorporated, New York, N. Y. Meter-testing apparatus. 1,751,554; Mar. 25.
Lund, Hans, Berlin-Schoneberg, Germany, assignor to General Electric Company. Induction motor. 1,752,097; Mar. 25.
Luts, Clovis C., Canton, Miss. Attachment for planters. 1,751,486; Mar. 25.
Luts, Clovis C., Canton, Miss. Attachment for planters. 1,751,590; Mar. 25.
MacDonald, Francis H., Edgemere, N. Y. Finger penholder. 1,751,704; Mar. 25.
Macdonald, Murdock, Cleveland, Ohio. Ticket holder. 1,751,744; Mar. 25.
MacDonald, Murdock, Cleveland, Ohio. Ticket holder. 1,751,825; Mar. 25.
MacKay-White, Eric W., Rossland, British Columbia, Canada. Internal-combustion pump. 1,752,130; Mar. 25.
MacLean, Agnes P., Kentallen, Scotland. Tent. 1,751,518; Mar. 25.
MacLennan, Kenneth M., Ayer, and J. O. Marcelais, Fitchburg, assignors to Safety Clear Vision, Inc., Fitchburg, Mass. Clear-vision device. 1,751,519; Mar. 25.
Macomber, Lynn W., assignor to United Steel and Wire Company, Battle Creek, Mich. Poultry coop or crate. 1,752,098; Mar. 25.
Mallinckrodt Chemical Works. (See Farr, Henry V., assignor.)
Mallory, P. R., & Co. (See Welger, Joseph A., assignor.)
Malmquist, Adolph K., South Bellingham, Wash. Canning. 1,751,642; Mar. 25.
Malmquist, Adolph K., South Bellingham, Wash. Vacuum sealing chamber. 1,751,643; Mar. 25.
Manning & Co. (See Van Ranst, Cornelius W., assignor.)
Manuel, Charles J., La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Pop gauge. 1,751,867; Mar. 25.
Mapes, Daniel, Mamaroneck, assignor to Walter Kidde & Company, Inc., New York, N. Y. Release device for fluids under pressure. 1,751,705; Mar. 25.
Maratil Societe Anonyme. (See Seifert, Otto, assignor.)
Marcelais, Joseph O. (See MacLennan, K. M., and Marcelais.)
Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Mounting for doll-eye sets. 1,752,274; Mar. 25.
Marcus, Samuel, Brooklyn, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Doll's-eye construction. 1,752,275; Mar. 25.
Marion Steam Shovel Company, The. (See Miley, Walter E., assignor.)
Markon Manufacturing Co. (See Marcus, Samuel, assignor.)
Marquis, Frank T. (See Shannon, Thomas G., assignor.)
Marshall, John R., McKean, Pa. Switch. 1,751,826; Mar. 25.
Marshall, John R., McKean, Pa. Insulator. 1,751,827; Mar. 25.
Marshall, William, assignor to Briggs Manufacturing Company, Detroit, Mich. Vehicle body construction. 1,751,828; Mar. 25.
Martin, James W., jr., Tuckahoe, assignor, by mesne assignments, to Dryice Equipment Corporation, New York, N. Y. Refrigerating apparatus and method. 1,752,015; Mar. 25.
Martin, James W., jr., Yonkers, assignor to Dryice Equipment Corporation, New York, N. Y. Refrigerating apparatus and method. 1,752,276; Mar. 25.
Martin, James W., jr., Yonkers, assignor to Dryice Equipment Corporation, New York, N. Y. Refrigerative heat-insulating apparatus and method. 1,752,277; Mar. 25.
Massey, Howard C., Kansas City, Mo. Bacon forming or shaping machine. 1,752,190; Mar. 25.
Masury, Alfred F., assignor to International Motor Company, New York, N. Y. Free-wheel drive. 1,751,868; Mar. 25.
Matabon, Jean L., and C. M. Foucault, Lyon, France. Self-exciting compensated asynchronous machine. 1,751,937; Mar. 25.
Maxfield, Harry L., and W. E. Mikkelson, Janesville, Wis. Hydrocarbon burner. 1,751,555; Mar. 25.
Maximoff, Alexander T., New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Catalyst for the production of ethylene glycols and ethylene hydrocarbons. 1,752,016; Mar. 25.
Mayne, Robert, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing apparatus. 1,751,869; Mar. 25.
McArdle, Michael W., Chicago, Ill. Arc health lamp. Des. 80,801; Mar. 25.
McCarthy, Joseph A., Richmond Hill, N. Y. Flue cap. Des. 80,802; Mar. 25.
McCarty, Roy I., Barree, Pa. Brick machine. 1,751,870; Mar. 25.
McCloskey, Gregory E., South Orange, N. J., assignor to The Barrett Company. Valve. 1,751,591; Mar. 25.
McCormack, Daniel J. (See Enz, K. A., and McCormack.)
McCulla, William E., assignor to Plus-Two Wheels, Inc., Sidney, Ohio. Wheeled attachment for motor trucks. 1,751,871; Mar. 25.
McGhie, Charles G. (See Connors, Thomas F., assignor.)
McIntyre, Rex W., South Manchester, assignor to The Orford Soap Company, Manchester, Conn. Receptacle filling machine. 1,751,487; Mar. 25.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Cam. 1,751,038; Mar. 25.
McKenzie, Alexander W., Seattle, Wash. Automatic locking elevator. 1,751,644; Mar. 25.
McKernan, Edward J. (See Kasper, W. F., and McKernan.)
McLaughlin, Belknap. (See Sacerdote, Guido M., assignor.)
McNaney, Ralph S., assignor to Dowagiac Steel Furnace Company, Dowagiac, Mich. Furnace. 1,751,829; Mar. 25.
McNaney, Ralph S., assignor to Dowagiac Steel Furnace Company, Dowagiac, Mich. Damper for warm-air furnaces. 1,751,830; Mar. 25.
McNaught, Norris F. (See Peterson, E. H., and McNaught.)
McNeil, Dollie, La Fayette, Calif. Doll. Des. 80,803; Mar. 25.
McNulty, Frank P., Los Angeles, Calif. Extension table. 1,751,831; Mar. 25.
Medaugh, William M., Ohio City, Ohio. Glove. 1,751,872; Mar. 25.
Megley, Harley J., Chicago, Ill. Typographical mold. 1,752,099; Mar. 25.
Meindersma, Wigger, Wassenaar, assignor to Findriven Syndicaat, Bestaande uit de Heeren Dr. Wigger Meindersma te Wassenaar voor Fifty Per Cent. Dr. Meine Rutgers te 's Gravenhage en Anton Ferdinand Johannes, Dijkgraaf te Rotterdam, Elk voor Twenty-Five Per Cent. The Hague, Netherlands. Device for driving and controlling a fin-shaped propelier. 1,752,100; Mar. 25.
Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Oscillatory circuits. 1,751,592; Mar. 25.
Meissner, Alexander, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Insulation of electrical apparatus. 1,751,939; Mar. 25.
Mengel, John, Oconomowoc, Wis. Can cover and top feed guide. 1,751,520; Mar. 25.
Menzin, Abraham, New York, N. Y. Shirt cuff sleeve. 1,751,832; Mar. 25.
Mercadante, Joseph. (See Thomson, Alfred M., assignor.)
Merco Nordstrom Valve Company. (See Nordstrom, S. J., and Haun, assignors.)
Merle, André N., assignor to Pathé Cinema, Anciens Etablissements Pathé Frères, Paris, France. Film holder. 1,751,598; Mar. 25.
Merriman Brothers, Inc. (See Clark, George H., assignor.)
Mers, Christian J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building tool. 1,751,873; Mar. 25.

Metalcraft Heater Corporation. (See Bovey, Sidney J. V., assignor.)
Metzger, Myer, Chicago, Ill. Display stand. 1,752,017; Mar. 25.
Meutsch, Heinrich, Essen, Germany. Mining prop. 1,752,101; Mar. 25.
Mew, George H., and L. N. Smith, Emory University, Ga. Chair. 1,752,102; Mar. 25.
Meyer, Charles F., jr., Indianapolis, Ind. Toy pistol. 1,751,488; Mar. 25.
Mikkelson, Wallace E. (See Maxfield, H. L., and Mikkelson.)
Miley, Walter E., assignor to The Marion Steam Shovel Company, Marion, Ohio. Excavating dipper. 1,751,745; Mar. 25.
Millus Shoe Company. (See Walsh, John J., assignor.)
Millar, William P., Saskatoon, Saskatchewan, Canada. Dentist's measuring device. 1,751,833; Mar. 25.
Miller, Albert F., Kansas City, Kans. Balustrade post. 1,752,018; Mar. 25.
Miller, Arthur E., Houston, Tex. Post-hole digger and reamer. 1,751,521; Mar. 25.
Miller, Frederick W., Hockley Heath, England. Making bimetallic strips for thermostats. 1,751,489; Mar. 25.
Miller, Oscar, Spokane, Wash. Hog house and pen. 1,751,834; Mar. 25.
Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)
Mills, John B., and F. O. Gray, assignors to Ohmer Fare Register Company, Dayton, Ohio. Odometer drive. 1,752,019; Mar. 25.
Minnium, Bryon B., assignor, by mesne assignments, to Story & Clark Radio Corp., Chicago, Ill. Radio receiving apparatus. 1,751,706; Mar. 25.
Minton, Robert B. (See Hinkle, James M., assignor.)
Mitchell, Doren, New York, and H. C. Silent, Larchmont, N. Y., assignors to American Telephone and Telegraph Company. Multiple way connection for transmission lines. 1,751,522; Mar. 25.
Mitchels, Peter J., Oakland, Calif. Connection for drapery rods. 1,752,020; Mar. 25.
Mojonnier Bros. Co. (See Hegg, Edward C., assignor.)
Moloney, Frank J., South Manchester, Conn., assignor to H. E. Page, Belmont, Mass. Knitting machine. 1,751,940; Mar. 25.
Monroe, William S., Chicago, and J. C. Sanderson, Evanston, assignors to Sargent & Lundy, Incorporated, Chicago, Ill. Cofferdam and method of construction. 1,751,835; Mar. 25.
Moone, Albert E. F., Chicago, Ill. Reel for electric conductors. 1,751,836; Mar. 25.
Moore Brothers Company. (See Dibble, Claude M., assignor.)
Moore, Horatio S., Bellefonte, Pa. Automobile handling apparatus. 1,751,874; Mar. 25.
Moore, Lyman P., Chico, Calif. Packing retainer. 1,751,837; Mar. 25.
Morsy, Jere C., New York, N. Y. Sea tub. 1,752,191; Mar. 25.
Moreno, Fiacro, Torreon, Mexico. Fan. 1,752,102; Mar. 25.
Morgan, Charles P. (See Morgan, Harry J., assignor.)
Morgan, Harry J., Walnut Park, assignor of one-half to C. P. Morgan, Los Angeles, Calif. Apparatus for determining deviation of well holes from the vertical. 1,751,594; Mar. 25.
Morgan Hurrycane Company, The. (See Morgan, William H., sr., assignor.)
Morgan, William H., sr., Alliance, Ohio, assignor, by mesne assignments, to The Morgan Hurrycane Company, New York, N. Y. Apparatus for preparing cane stalks. 1,751,838; Mar. 25.
Morgan, William M., Wynona, Okla. Card game. 1,751,523; Mar. 25.
Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
Morgana, Charles, assignor to Briggs Manufacturing Company, Detroit, Mich. Door construction. 1,751,746; Mar. 25.
Morrill, Elliott. (See Kritchevsky, W., Prutsman, and Morrill.)
Morris, Howard I., assignor to The Yoder Pencil Company, Cleveland, Ohio. Writing device. 1,751,941; Mar. 25.
Morris, I. P., Corporation. (See Taylor, Harvey B., assignor.)
Morrison, Isaac H., Detroit, Mich. Built-up partition pillar. 1,752,103; Mar. 25.
Moskovits, Sigmund J., Bayonne, N. J. Seal. 1,751,839; Mar. 25.
Moss, Harold J., New York, N. Y. Shower nozzle attachment. 1,751,524; Mar. 25.
Moto Meter Gauge & Equipment Corporation. (See Manuel, Charles J., assignor.)
Moto Meter Gauge & Equipment Corporation. (See Schupp, Alfred B., assignor.)
Mourgeon, Léon. (See Vieu, C., and Mourgeon.)
Moyer, Fredellia H., Pittsburgh, and C. A. Frahm, Massillon, assignors, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio. Trussed structure. 1,751,747; Mar. 25.
Muhlhoff, Eduard, assignor to the firm Peter Friedr. Muhlhoff Werkzeugfabrik Remscheid, Germany. Bit for boring long holes. 1,752,262; Mar. 25.
Muhlhoff, Peter Friedr., Werkzeugfabrik. (See Muhlhoff, Eduard, assignor.)
Mulder, Jentje, Detroit, Mich. Automatically-timed electrical device. 1,751,875; Mar. 25.
Mullin, John, Enfield, England. Apparatus for pulverising coal or other fuel. 1,751,525; Mar. 25.
Munford, George A., Rochester, N. Y. Ironing roll. 1,751,876; Mar. 25.
Myers, Hubert A., Toledo, Ohio. Musical toy. 1,751,490; Mar. 25.
Myers, Hubert A., Toledo, Ohio. Musical toy. 1,751,491; Mar. 25.
Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 1,751,840; Mar. 25.
Myers, Thomas G., Los Angeles, Calif., assignor, by mesne assignments, to General Electric Company. Induction motor with variable reactance. 1,752,104; Mar. 25.
N. V. Philips' Gloeilampenfabrieken. (See De Jong, H., Lely, and Shepherd, assignors.)
Nachman, Louis, and S. Finkelstein, Philadelphia, Pa. Elastic-band structure. 1,751,595; Mar. 25.
Nance, William B., San Leandro, Calif. Drain trap. 1,751,877; Mar. 25.
Nans, Robert, New York, N. Y. Roller skate. 1,751,942; Mar. 25.
Narragansett Machine Company. (See Thornley, Albert E., assignor.)
Nash, Charles A., Portland, Oreg. Garter button. 1,751,707; Mar. 25.
Nash, John, Tacoma, Wash. Building block. 1,751,748; Mar. 25.
Nash, Weston M., Saginaw, Mich. Chair for hunters. 1,752,105; Mar. 25.
National Piano Mfg. Co. (See Green, Clifford H., assignor.)
National Refrigeration Corporation. (See Dennison, French E., assignor.)
National Sash Weight Corporation. (See Brown, Thomas H., assignor.)
Naugatuck Chemical Company, The. (See Maximoff, Alexander T., assignor.)
Nellsen, Lars C., Bradley, Ill. Weather strip. 1,751,526; Mar. 25.
Neller, Walter A., Alexandria, Minn. Piston-boss reamer. 1,751,708; Mar. 25.
Nelson Bros. Mfg. Co. (See Nelson, Charles W. and R. L., assignors.)
Nelson, Charles W. and R. L., assignors to Nelson Bros. Mfg. Co., Inc., Sioux City, Iowa. Oil heater. 1,751,857; Mar. 25.
Nelson, Charles W. and R. L., assignors to Nelson Bros. Mfg. Co., Inc., Sioux City, Iowa. Oil heater. 1,751,858; Mar. 25.
Nelson, Charles W. and R. L., Sioux City, Iowa, assignors to Nelson Bros. Mfg. Co., Inc. Oil heater for crank case. 1,751,859; Mar. 25.
Nettle, Thomas B., and J. W. Klein, Huntington Park, Calif. Sanitary milk cabinet. 1,751,749; Mar. 25.
Neumark, Hans. (See von Girsewald, C. F., and Neumark.)
Newberry, William F., Montclair, N. J., assignor to F. W. Woolworth Co., New York, N. Y. Egg-beater bowl. Des. 80,804; Mar. 25.
Newcomer, Benjamin H., Charleston, W. Va. Rack. 1,751,878; Mar. 25.
Newhall, Henry B., Corporation. (See Karitsky, John, assignor.)
Newkirk, Gilbert L., East St. Louis, Ill. Auto awning. 1,751,750; Mar. 25.
New Process Multi-Castings Company. (See Harmes, Edward, assignor.)
Nibbs, Ernest, New London, assignor to Electric Boat Company, Groton, Conn. Engine construction. 1,751,653; Mar. 25.
Nicholson, Alexander W., Dickerson Run, Pa. Engineer's brake valve for air-brake systems. 1,751,943; Mar. 25.
Nielsen, Frantz F., R. H., and J. R., Afton, Wyo. Motor operating attachment for liquid sprayers. 1,751,709; Mar. 25.
Nielsen, James R. (See Nielsen, Frantz F., R. H., and J. R.)
Nielsen, Rea H. (See Nielsen, Frantz F., R. H., and J. R.)
Nieman, Henry W., Bethlehem, Pa. Mechanical movement. 1,751,646; Mar. 25.
Nieman, Henry W., Bethlehem, Pa. Servo mechanism. 1,751,647; Mar. 25.
Nieman, Henry W., Bethlehem, Pa. Servo mechanism. 1,751,648; Mar. 25.
Nieman, Henry W., Bethlehem, Pa. Power-transmission mechanism. 1,751,650; Mar. 25.
Nieman, Henry W., Bethlehem, Pa. Thrust bearing. 1,751,651; Mar. 25.
Nieman, Henry W., Bethlehem, Pa. Synchronous amplifying control mechanism. 1,751,652; Mar. 25.
Nieman, Henry W., Bethlehem, Pa., assignor to Bethlehem Steel Company. Servo mechanism. 1,751,645; Mar. 25.
Nieman, Henry W., Bethlehem, Pa., assignor to Bethlehem Steel Company. Fire-control mechanism. 1,751,649; Mar. 25.
Niven, Archie M., assignor to Continental Motors Corporation, Detroit, Mich. Manufacture of sleeve valves. 1,752,021; Mar. 25.
Noll, Fred C., Youngstown, Ohio. Regulator for hot-air furnaces. 1,751,944; Mar. 25.
Nordstrom, Sven J., Oakland, and J. C. Haun, Berkeley, assignors to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,751,654; Mar. 25.

North American Chemical Company. (See Daly, John J., assignor.)
Novo Engine Company. (See Fisher, Henry J., assignor.)
Novo Engine Company. (See Holmes, Herbert G., assignor.)
Nowakowski, Albert J., assignor to The Toledo Steel Tube Company, Toledo, Ohio. Bender. 1,751,492; Mar. 25.
Nyquist, Harry, Millburn, N. J., assignor to American Telephone and Telegraph Company. Distortionless amplifying system. 1,751,527; Mar. 25.
Oberdorfer, M. L., Brass Company, The. (See Hedglon, Mead, assignor.)
Oetjen, Howard H., Chicago, Ill., assignor to Chicago Electric Manufacturing Co. Side lamp for automobiles. 1,751,751; Mar. 25.
O'Hanlon, Joseph, Brooklyn, N. Y. Fire nozzle. 1,752,193; Mar. 25.
Ohio Automobile Radiator Company, The. (See Habif, Vita, assignor.)
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohland, Fred H., Gibbon, Minn. Magnetic testing device. 1,751,710; Mar. 25.
Ohlsen, Jørgen U. A., Copenhagen, Denmark. Preparing an oxychloride cement. 1,752,194; Mar. 25.
Ohmer Fare Register Company. (See Mills, J. B., and Gray, assignors.)
Oil Devices Corporation. (See Breese, James L., jr., assignor.)
Olsen, Simon D., Walthamstow, England. Actuating steering gear and for analogous purposes. 1,752,022; Mar. 25.
O'Neal, Frank, Philadelphia, Pa., assignor, by mesne assignments, to The Hump Hairpin Manufacturing Co., Chicago, Ill. Means for retaining bobbed hair. 1,751,596; Mar. 25.
Ong, Harold R., Champaign, Ill. Revolving lathe center. 1,751,711; Mar. 25.
Oppermann, John, New York, N. Y. Collar stiffener. 1,751,655; Mar. 25.
Oransky, Sidney, Des Moines, Iowa. Card holder and the like. 1,751,656; Mar. 25.
Orchestraphone Company. (See Cloud, Raymond T., assignor.)
Orford Soap Company, The. (See McIntyre, Rex W., assignor.)
Orr, Fingal C., Glendale, Calif. Water sprinkler. 1,751,879; Mar. 25.
Oshei, William E., Buffalo, N. Y. Oil-change indicator for motor vehicles. Des. 80,800; Mar. 25.
Osterlind, August F., deceased, St. Paul, Minn.; F. H. Osterlind and J. A. Jacobson, administrators. Making calendars. 1,751,752; Mar. 25.
Osterlind, Frank H., et al., administrators. (See Osterlind, August F.)
Ott, Albert J. and C. L., assignors to American Grinder Company, Detroit, Mich. Gear-grinding machine. 1,751,753; Mar. 25.
Ott, Conrad L. (See Ott, Albert J. and C. L.)
Overbury, Frederick C., Hillsdale, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Method of and apparatus for making strip shingles. 1,751,945; Mar. 25.
Overshiner, Ellsworth B., assignor of one-half to F. M. Jackson, Chicago, Ill. Electric heater. 1,751,754; Mar. 25.
Owen, Harvey S. (See Coddington, E. D., Kerler, Black, and Owen.)
Owen, William, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Glass-handling apparatus. 1,751,712; Mar. 25.
Owl Drug Company. (See Carr, James A., assignor.)
Pacific Copper and Brass Works, Incorporated. (See Travis, Bertram C., assignor.)
Packard, Horace N., Wauwatosa, Wis., assignor, by mesne assignments, to The Cutler-Hammer, Inc. Alternating-current electromagnet. 1,752,023; Mar. 25.
Page, Howard E. (See Moloney, Frank J., assignor.)
Palin, David, Pawtucket, R. I. Tension device for winding machines. 1,752,195; Mar. 25.
Palmer, Roy V. (See Sendelback, J., and Palmer.)
Palmer, William H. (See Calder, W. A. S., and Palmer.)
Paris, George W., assignor to Karle Lithographic Company, Rochester, N. Y. Collapsible and reducing box. 1,751,755; Mar. 25.
Parker, Fred G., Paterson, N. J. Antiskid device. 1,752,024; Mar. 25.
Patent and Licensing Corporation, The. (See Overbury, Frederick C., assignor.)
Pathé Cinema, Anciens Etablissements Pathé Freres. (See Merle, André N., assignor.)
Patrie, Ronald E., Loretto, Mich. Radio apparatus. 1,752,196; Mar. 25.
Patterson, Duncan W., Douglaston, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation. Fire-extinguishing system. 1,752,263; Mar. 25.
Patterson, John F., assignor to The Warren City Tank & Boiler Company, Warren, Ohio. Storage tank. 1,752,197; Mar. 25.
Paulsen, Reginald, Oslo, Norway. Tank ship. 1,751,756; Mar. 25.
Pauseer, Arnaud E., Philadelphia, Pa. Temperature indicator for hair-curling devices. 1,752,198; Mar. 25.
Pellerin, Georges, Malaunay, France. Apparatus for melting fatty substances. 1,751,713; Mar. 25.
Perez, Waldo F., Jacksonville, Fla. Gasoline-dispensing pump. 1,751,880; Mar. 25.
Perkins, Bert B., Monticello, Minn. Harrow teeth. 1,751,493; Mar. 25.
Perrault, Joseph E., Watertown, and H. G. Ellis, Waltham, assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Apparatus for manipulating rubber treads for tires. 1,751,597; Mar. 25.
Persons, Lawrence M., assignor to Cook Electric Company, Chicago, Ill. Flexible coupling. 1,752,106; Mar. 25.
Perthel, Carl F., Northfield, N. H. Trousers support and attaching means. 1,752,199; Mar. 25.
Peters, Arthur E., Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,751,714; Mar. 25.
Peters, Jacob C., jr., Philadelphia, Pa. Thermal conductivity gas analysis apparatus. 1,751,715; Mar. 25.
Peterson, Earl W., Chicago, Ill. Elevator installation. 1,752,025; Mar. 25.
Peterson, Edward H., and N. F. McNaught, assignors to Duro Metal Products Company, Chicago, Ill. Operating mechanism for valve grinders. 1,751,657; Mar. 25.
Peterson, Hans C., and F. H. Russell, Weyauwega, Wis. Rotary valve for internal-combustion engines. 1,751,528; Mar. 25.
Petit, Henry B., assignor to G. M. Holley, Detroit, Mich. Carburetor. 1,752,283; Mar. 25.
Peyser, Joseph, Mount Vernon, N. Y. Cover-separating means. 1,751,556; Mar. 25.
Pfeiffer, Benjamin S. (See Chase, S., 4th, and Pfeiffer.)
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing rod. 1,752,027; Mar. 25.
Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Crane. 1,752,026; Mar. 25.
Phillips, Walter B., Liberty, assignor to W. M. Cross, Kansas City, Mo. Heat exchanger. 1,751,757; Mar. 25.
Phoenix Glass Company, The. (See Haley, Kenneth R., assignor.)
Pickard, J. B. (See Wolgamood, Hugh M., assignor.)
Pickens, Claude A., assignor of one-half to A. Sly, Spokane, Wash. Clothes drier. 1,751,841; Mar. 25.
Pierotti, William L. (See Backus, J. C., and Pierotti.)
Pifer, George N., Cleveland, Ohio, assignor, by mesne assignments, to American Phototure Company, New York, N. Y. Making colored photographs. 1,751,881; Mar. 25.
Pifer, George N., Cleveland, Ohio, assignor to American Phototure Company, New York, N. Y. Photographic card and producing the same. 1,751,882; Mar. 25.
Pines Winterfront Company. (See Harrington, James, assignor.)
Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
Plater, Albert S., assignor to Baker Perkins Company, Inc., Saginaw, Mich. Embossing cutter head. 1,752,107; Mar. 25.
Plus-Two Wheels, Inc. (See McCulla, William R., assignor.)
Pointon, John E. (See Harber, L. S., and Pointon.)
Poister, James C., Morrill, Kans. Match receptacle. 1,752,108; Mar. 25.
Pope, Elmer R., South Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-supplying mechanism. 1,751,598; Mar. 25.
Porth, William F., Detroit, Mich. Cushioned valve tappet. 1,751,716; Mar. 25.
Prassas, John K., Chicago, Ill. Convertible chair. 1,751,599; Mar. 25.
Prassas, John K., Chicago, Ill. Convertible chair. 1,751,600; Mar. 25.
Pratt, Clifton J., St. Louis, Mo. Manufacture of high-compression automative distillate. 1,752,264; Mar. 25.
Preferred Oil Burners, Inc. (See Aldrich, Loyd I., assignor.)
Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Electrical system. 1,752,109; Mar. 25.
Propp, M., Co. Inc., The. (See Propp, Morris, assignor.)
Propp, Morris, assignor to The M. Propp Co. Inc., New York, N. Y. Current tap fitting. 1,751,842; Mar. 25.
Prothers, Harold, assignor to Vorclone Company, Milwaukee, Wis. Door for washer drums. 1,751,946; Mar. 25.
Prutsman, Harold C. (See Kritchevsky, W., Prutsman, and Morrill.)
Purcell, William F. (See Hilts, G. S., and Purcell.)
Pyle-National Company, The. (See Duke, Charles W., assignor.)
Radabaugh, Floyd E., Pleasant Ridge, Mich. License-plate holder. 1,751,947; Mar. 25.
Radio Corporation of America. (See Ewen, Harry A., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Loewe, Siegmund, assignor.)
Raimondi, Gaetano, New York, N. Y. Land and water vehicle. 1,752,200; Mar. 25.

Raney, Clemma R., Riverside, and A. E. W. Johnson, assignors to International Harvester Company, Chicago, Ill. Grain tank for harvester thrashers. 1,751,601; Mar. 25.

Rasmussen, Edward C., Chicago, Ill. Accounting table. 1,751,494; Mar. 25.

Ray, James L., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine support. 1,751,602; Mar. 25.

Ray, James L., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Making turbine blades. 1,751,758; Mar. 25.

Ready, William A., Brookline, Mass. Dial mechanism. 1,751,658; Mar. 25.

Reaves, William P., Greensboro, N. C. Stereoscopic apparatus. 1,751,530; Mar. 25.

Reed, Frank B., New Bedford, Mass. Sound reproducer for phonographs. 1,752,201; Mar. 25.

Rees, William H., Berkeley, Calif. Weighing machine. 1,751,760; Mar. 25.

Reese, Frank, assignor to Reese Metal Weather Strip Co., Minneapolis, Minn. Self-adjusting interlocking weather-strip device. 1,751,759; Mar. 25.

Reese Metal Weather Strip Co. (See Reese, Frank, assignor.)

Reiber, Harry P., Elyria, Ohio. Rope clamp. 1,751,883; Mar. 25.

Reich, Herman, Des Moines, Iowa. Staple puller. 1,751,948; Mar. 25.

Remington Typewriter Company. (See Stewart, Harvey J., assignor.)

Remy, Matilda, Wellesley, Mass. Combination slide, seesaw, and jumping board. 1,752,110; Mar. 25.

Renwick, Charles S. (See Tittemore, F. A., and Renwick.)

Rice, George S., Washington, D. C. Blasting apparatus. 1,751,659; Mar. 25.

Richards, Alfred E. (See Hope, E., and Richards.)

Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)

Richardson Corporation. (See Ames, L. G., and Browne, assignors.)

Ridderstrom, Andrew R., Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Folding machine. 1,751,884; Mar. 25.

Rieble, Frans, Stuttgart, Germany. Record card and cover therefor. 1,751,885; Mar. 25.

Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,805; Mar. 25.

Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,806; Mar. 25.

Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,807; Mar. 25.

Rit Products Corporation. (See Kritchevsky, W., Prutsman, and Morrill, assignors.)

Ritchie, Charles A., D'Arcy, Saskatchewan, Canada. Adjustable pitman rod. 1,752,028; Mar. 25.

Roberts, Clifford, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Rubber tread for shoes. 1,751,557; Mar. 25.

Robertson, William F., Cincinnati, Ohio. Wire stretcher. 1,752,029; Mar. 25.

Robinson, Gale S., Seattle, Wash. Adjustable ledger sheet and card flag. 1,751,495; Mar. 25.

Robinson, Henry, New York, N. Y. Agitating, etc., machine. 1,752,202; Mar. 25.

Robinson, Henry, New York, N. Y. Agitating, etc., machine. 1,752,203; Mar. 25.

Robinson, Thomas, New York, N. Y., assignor to Lancaster Asphalt, Inc. Coating apparatus. 1,751,949; Mar. 25.

Rock, Caroline F., administratrix. (See Rock, Edgar A.)

Rock, Edgar A., deceased, by C. F. Rock, administratrix, Norfolk, Nebr. Apparatus for bending small pipes. 1,751,896; Mar. 25.

Rodrian, Albert, Potsdam, Germany. Type head for typewriters and the like. 1,751,761; Mar. 25.

Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Caster. 1,752,030; Mar. 25.

Romine, Robert T., Mount Clemens, Mich. Car loading and unloading method. 1,751,717; Mar. 25.

Root, William R., Terre Haute, Ind. Bottle. Des. 80,808; Mar. 25.

Rose, Clarence F., near Modoc, Ind. Soil-working combine. 1,751,887; Mar. 25.

Rosett, Joshua, New York, N. Y. Air compressor. 1,751,843; Mar. 25.

Royal Typewriter Company. (See Myers, Lewis C., assignor.)

Ruben Patents Company. (See Ruben, Samuel, assignor.)

Ruben, Samuel, assigror to Ruben Patents Company, New York, N. Y. Sound-emitting device. 1,751,888; Mar. 25.

Russell, Frank H. (See Peterson, H. C., and Russell.)

Rutherford, Eugene W., New Haven, assignor to The Shoe Hardware Company, Waterbury, Conn. Slider for interlocking fasteners. 1,752,111; Mar. 25.

Ryan, Ralph B. (See Cox, M. C., and Ryan.)

Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Power-converting apparatus. 1,752,205; Mar. 25.

Sabbah, Camille A., Schenectady, N. Y., assignor to General Electric Company. Vapor electric device. 1,752,204; Mar. 25.

Sacerdote, Guido M., Bayside, assignor to B. McLaughlin, Flushing, N. Y. Clamping mechanism for rolling screens. 1,751,950; Mar. 25.

Safety Car Heating & Lighting Company, The. (See Coffee, Bassett M., assignor.)

Safety Car Heating & Lighting Company, The. (See Cole, Theodore S., assignor.)

Safety Clear Vision, Inc. (See MacLennan, K. M., and Marcelais, assignors.)

Sanderson, John C. (See Monroe, W. S., and Sanderson.)

Sandner, Erich, Kobe, Japan. Torque cushioning shaft coupling. 1,751,496; Mar. 25.

Sarco Company. (See Smith, Herbert A., assignor.)

Sargent & Lundy, Incorporated. (See Monroe, W. S., and Sanderson, assignors.)

Sarotti Aktiengesellschaft. (See Horra, Wenzel, assignor.)

Sauerman, Ernest W., assignor to Transo Envelope Company, Chicago, Ill. Centering means for blank-cutting dies. 1,751,603; Mar. 25.

Savage, Paul M. (See Harshaw, W. J., Savage, and Bezenberger.)

Sawbrook Steel Castings Company, The. (See Sawtelle, Elmer S., assignor.)

Sawtelle, Elmer S., Cincinnati, assignor to The Sawbrook Steel Castings Company, Lockland, Ohio. Method and apparatus for casting metal. 1,752,280; Mar. 25.

Saxton, John N., Bucyrus, Ohio, assignor to The Grease-Rite Corporation, Chicago, Ill. Grease gun. 1,751,660; Mar. 25.

Scammell China Co. (See Ellis, George, assignor.)

Schaefer & Fiedelmeier. (See Johannsen, Ernst, assignor.)

Schaefer, Frederic, Pittsburgh, Pa. Attachment of brake levers to connecting rods. 1,751,661; Mar. 25.

Schaeffer, John, assignor to The Van Brunt Manufacturing Company, Horicon, Wis. Grain drill. 1,751,951; Mar. 25.

Schaer, Charles, Langenthal, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Internal-combustion engine. 1,752,031; Mar. 25.

Schaffner, Karl, Nuremberg, assignor to the firm Vereinigte Schuhfabriken Bernels-Wessels A. G., Augsburg-Oberhausen, Germany. Baby's shoe. Des. 80,809; Mar. 25.

Schanz, George H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Extruding machine. 1,751,844; Mar. 25.

Schars, Alphonse J., Bordeaux, France. Centrifugal diffusing apparatus for spreading products for the maintenance of roadways. 1,751,531; Mar. 25.

Schaub, Edward J., assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or similar article. Des. 80,810; Mar. 25.

Schaum, Fletcher, assignor to Fletcher Works, Philadelphia, Pa. Automatic machine-control mechanism. 1,751,532; Mar. 25.

Schilling, John M., Lima, Ohio. Bottle cooler. 1,751,558; Mar. 25.

Schleicher, Frank J., St. Louis, Mo. Box. Des. 80,811; Mar. 25.

Schletter, Richard E., Philadelphia, assignor by mesne assignments, to Textile Machine Works, Wyomissing, Pa. Attachment for flat-knitting machines. 1,752,206; Mar. 25.

Schlosberg, Samuel, New York, N. Y. Imitation braided button. 1,751,763; Mar. 25.

Schmidt, Carl E., & Company. (See Toole, John P., assignor.)

Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power plant. 1,751,604; Mar. 25.

Schmierer, Eugene, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Heating-element arrangement for mixer bowls. 1,751,605; Mar. 25.

Schoenberger, Arthur, Pittsburgh, Pa. Rope fastener. 1,751,762; Mar. 25.

Schou, Theodor, assignor to The Ideal Electric & Manufacturing Company, Mansfield, Ohio. Standardising the manufacture of dynamo-electric machines. 1,751,559; Mar. 25.

Schröter, Fritz, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Picture-transmission system. 1,751,606; Mar. 25.

Schupp, Alfred B., Richmond Hill, assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Manufacturing spark plugs. 1,751,662; Mar. 25.

Schwarskopf, Arthur R., assignor to Theo. A. Kochs Company, Chicago, Ill. Sterilizing cabinet. 1,752,265; Mar. 25.

Scofield, Sherman W., and J. B. La Rue, Cleveland, Ohio; said La Rue assignor to said Scofield. Separating the constituents of mineral silicates. 1,751,663; Mar. 25.

Sculley, Charles R., East St. Louis, Ill. Apparatus for impregnating roofing felt. 1,751,889; Mar. 25.

Secretary of War of the United States of America. (See Brayton, Harold M., assignor.)

Seeger, Edwin W., Wauwatosa, assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. System of power transmission and distribution. 1,752,032; Mar. 25.

Seifert, Otto, Burgstadt, Germany, assignor to Maratti Societe Anonyme, Geneva, Switzerland. Keeping knitting machines clean. 1,752,207; Mar. 25.

Semet-Solvay Engineering Corporation. (See Steere, Frank W., assignor.)

Sendelback, Joseph, and R. V. Palmer, McAlester, Okla. Cleaning composition. 1,751,764; Mar. 25.

Service Station Equipment Company. (See Woodford, Joe C., assignor.)

Severance, Charles D., and R. O. Stetson, assignors to Goodell-Pratt Company, Greenfield, Mass. Spirit level. 1,752,112; Mar. 25.

Seymour, Benjamin F., Washington, D. C. Machine for aerial navigation. 1,751,890; Mar. 25.

Shaft-Pierce Shoe Company. (See Shaft, Willis S., assignor.)

Shaft, Willis S., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Channeling knife. 1,752,113; Mar. 25.

Shannon, Thomas G., assignor of one-half to F. T. Marquis, San Francisco, Calif. Collapsible kiddy car. 1,751,765; Mar. 25.

Shapiro, Sam A., Bronx, assignor, by mesne assignments, to A. Dorsey, New York, N. Y. Attachment for connecting tuning units to dial controls. 1,751,560; Mar. 25.

Sharp, William E., Chicago, Ill. Exerciser casing. Des. 80,812; Mar. 25.

Shaw, George F., Mayfield, Ky. Golf-bag support. 1,752,114; Mar. 25.

Shaw, Harold F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Brake for baby carriages. 1,752,269; Mar. 25.

Shelton, Jesse M., Atlanta, Ga. Stadium chair. 1,752,208; Mar. 25.

Shepherd, Richard. (See De Long, H., Lely, and Shepherd.)

Sherwin, S. L., et al. (See Franchere, H. A., and Jepp, assignors.)

Shoe Hardware Company, The. (See Rutherford, Eugene W., assignor.)

Sigwart, August. (See Glietenberg, E., and Sigwart.)

Silent, Harold C. (See Mitchell, D., and Silent.)

Simmons, Oliver G., Lakewood, Ohio. Method and apparatus for generating gear teeth. 1,752,033; Mar. 25.

Siskin, Harry, Los Angeles, Calif. Extension table. 1,751,952; Mar. 25.

Sivertsen, Peter, New York, N. Y. Cleaning device for slicing-machine knives. 1,751,891; Mar. 25.

Sliter, Leon A., assignor to Durametallic Corporation, Kalamazoo, Mich. Machine for manufacturing metallic packing. 1,752,115; Mar. 25.

Sloan, Alfred C., Philadelphia, Pa. Vibratory device for dental molding machines. 1,752,266; Mar. 25.

Sly, Art. (See Pickens, Claude A., assignor.)

Smith, Ernest C., Chicago, Ill., assignor to International Harvester Company. Manure-spreader body. 1,751,561; Mar. 25.

Smith, Frederick E., Santa Paula, Calif. Valve seat. 1,751,664; Mar. 25.

Smith, George L., assignor to United States Ordnance Company, Washington, D. C. Brake system. 1,752,209; Mar. 25.

Smith, Herbert A., Bethlehem, Pa., assignor to Sarco Company, Inc. Cooling-fluid control. 1,752,116; Mar. 25.

Smith, John W., Cleveland, Ohio. Casting machine. 1,751,766; Mar. 25.

Smith, Lucius N. (See Mew, C. H., and Smith.)

Smith, Nels J. (See Briggs, Henry E., assignor.)

Smith, Robert L., Beaumont, Tex. Constructing foundations. 1,751,607; Mar. 25.

Smith Separator Company. (See Dillon, Stephen V., assignor.)

Smith Separator Company. (See Waters, Millard F., assignor.)

Smith, Stanley C., London, England. Fabric and the treatment of subdivided materials. 1,752,210; Mar. 25.

Smith, Steve E., et al. (See Stephens, Erastus C., assignor.)

Smith, Vernon A., Berkeley and C. Backman, Oakland, Calif. Device for shaping battery separators. 1,751,892; Mar. 25.

Smith, William, Yonkers, N. Y. Temperature detector. 1,752,117; Mar. 25.

Smitt, Frank, assignor of six per cent to N. Krupinski, Port Washington, N. Y. Automatic railway safety signal. 1,751,845; Mar. 25.

Snyder, Melvin J. (See Burright, C. L., and Snyder.)

Sodergren, Eric, Sierra Madre, Calif. Regulator for windows and doors. 1,751,718; Mar. 25.

Speidel Chain Co. (See Carlson, Edwin G., assignor.)

Spellman, Herbert W. (See Guggenheim, E., and Spellman.)

Spencer, Ira H., assignor to The Spencer Turbine Company, West Hartford, Conn. Pneumatic cleaning tool. 1,752,034; Mar. 25.

Spencer, James C., Chicago, Ill. Aeroplane rudder-bar control. 1,752,118; Mar. 25.

Spencer Turbine Company. (See Spencer, Ira H., assignor.)

Spengler, Charles, Akron, N. Y., assignor, by mesne assignments, to Certain-Teed Products Corporation. Plaster-board manufacture. 1,751,953; Mar. 25.

Sperry, John B., assignor to The American Well Works, Aurora, Ill. Pumping apparatus. 1,751,767; Mar. 25.

Sprong, Severn D., Brooklyn, assignor to Engineering Products Corporation, Inc., New York, N. Y. Insulating joint. 1,751,665; Mar. 25.

Standard Brands Incorporated. (See Jacobsen, Kai A., assignor.)

Stationers Loose Leaf Co. (See Lotter, Adolph G., assignor.)

Steere, Frank W., New York, N. Y., assignor, by mesne assignments, to Young-Whitwell Gas Process Company, Tacoma, Wash. Water-gas apparatus. 1,751,497; Mar. 25.

Steere, Frank W., Highland Park, Mich., assignor, by mesne asignments, to Semet-Solvay Engineering Corporation, New York, N. Y. Gas manufacture. 1,752,035; Mar. 25.

Steere, Frank W., Highland Park, Mich., assignor, by mesne assignments, to Semet-Solvay Engineering Corporation, New York. Water-gas manufacture. 1,752,036; Mar. 25.

Steere, Frank W., Highland Park, Mich., assignor to Semet-Solvay Engineering Corporation, New York, N. Y. Gas manufacture. 1,752,037; Mar. 25.

Steere, Frank W., Highland Park, Mich., assignor, by mesne assignments, to Semet-Solvay Engineering Corporation, New York, N. Y. Gas manufacture. 1,752,278; Mar. 25.

Steinbart, Alfred, Pittsburgh, Pa. Regulation of combustion of gases in furnaces. 1,751,893; Mar. 25.

Steinbart, Alfred, Pittsburgh, Pa. Regulation of combustion of gases in furnaces. 1,751,894; Mar. 25.

Steinmayer, Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Fuse. 1,751,954; Mar. 25.

Stephens, Erastus C., Canton, assignor of one-half to S. E. Smith and one-half to D. L. Turner, Pickens County, Ga. Terminal puller. 1,752,267; Mar. 25.

Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Controlling device for electric sewing machines. 1,752,212; Mar. 25.

Sterling Manufacturing Company. (See Carter, Charles E., assignor.)

Stetson, Raymond O. (See Severance, C. D., and Stetson.)

Stewart, Harvey J., San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y. Collating table. 1,751,895; Mar. 25.

Stinger, Daniel, Philadelphia, Pa., assignor to The Barrett Company. Shingle stripper. 1,751,562; Mar. 25.

Stinger, Daniel, Philadelphia, Pa., assignor to The Barrett Company. Shingle-cutting knife. 1,751,563; Mar. 25.

Stock Quotation Telegraph Company. (See Hiltz, G. S., and Purcell, assignors.)

Stoewener, Fritz, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacturer of active silica. 1,751,955; Mar. 25.

Stone, Edmund J., New York, N. Y. Street sign and traffic signal. 1,751,564; Mar. 25.

Story & Clark Radio Corp. (See Minnium, Byron B., assignor.)

Straight-Side Basket Corporation, The. (See Dudley, Colon J., assignor.)

Stuart, Harve E., Springfield, Ohio. Ventilator. 1,751,768; Mar. 25.

Studebaker Corporation, The. (See Link, Vincent, assignor.)

Stultz, George W., Huntington, W. Va. Air and vapor supply device for intake manifolds. 1,751,769; Mar. 25.

Suarez, Murrell A., Birmingham, Ala. License-card holder. 1,751,666; Mar. 25.

Sunday, James J., assignor to J. W. Kelch, Detroit, Mich. Heater for automobiles. 1,752,038; Mar. 25.

Sussman, Morris, New York, N. Y. Ash tray. Des. 80,813; Mar. 25.

Swan, Hunter & Wigham Richardson Limited. (See Young, Horace J., assignor.)

Sweet, Frederick A., Salt Lake City, Utah. Transmission mechanism. 1,751,770; Mar. 25.

Sweet, Henry W., assignor to The Brown Lipe Gear Company, Syracuse, N. Y. Friction clutch. 1,752,039; Mar. 25.

Symington, T. H., and Son, Inc. (See Hankins, Cyrus, assignor.)

Szwajkart, Adam L., Chicago, Ill. Automatic telephone-receiver signal. 1,752,211; Mar. 25.

Talbott, Charles G., Stamford, Conn., assignor to The Barrett Company. Device for spreading bitumen. 1,751,565; Mar. 25.

Tarbox, John P., Philadelphia, Pa., assignor to Tarbox Safety Aircraft Company, Wilmington, Del. Balancing system for aircraft. 1,752,119; Mar. 25.

Tarbox Safety Aircraft Company. (See Tarbox, John P., assignor.)

Tasman, George, assignor to Locke & Co., New York, N. Y. Automobile body. 1,751,771; Mar. 25.

Taylor, Harvey B., Philadelphia, Pa., assignor, by mesne assignments, to I. P. Morris Corporation. Hydraulic apparatus. 1,751,667; Mar. 25.

Taylor, Huston, Detroit, Mich. Combustion apparatus. 1,751,498; Mar. 25.

Taylor, Huston, Pasadena, Calif. Oil heater. 1,751,533; Mar. 25.

Taylor, Huston, Pittsburgh, Pa. Boiler. 1,751,534; Mar. 25.

Taylor, Maurice R., East Cleveland, assignor to The Lincoln Electric Company, Cleveland, Ohio. Arc welding. 1,751,668; Mar. 25.

Taylor, Raymond A., Frederick, Md. Retarding device for persons escaping from a submerged vessel. 1,751,896; Mar. 25.

Taylor, William A., Detroit, Mich. Life-saving suit. 1,752,120; Mar. 25.

Tchernlac, Joseph, Streatham Hill, London, England. Manufacture of ortho-anisidine and similar aminophenol ethers. 1,752,121; Mar. 25.

Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Meissner, Alexander, assignor.)

Terborg, John, Demotte, Ind. Coffee dispenser. 1,751,535; Mar. 25.

Textile Machine Works. (See Schletter, Richard E., assignor.)

Thatch, William P., Madison, Nebr. Stock gate. 1,751,669; Mar. 25.

Thieler, Julius E., New York, N. Y. Indicator. 1,752,122; Mar. 25.

Thomas, B. R., et al. (See Franchere, H. A., and Jepp, assignors.)

Thomas, Pacific J., assignor to Fletcher Works, Incorporated, Philadelphia, Pa. Bobbin holder. 1,751,566; Mar. 25.

Thompson, Jess A., Washington C. H., Ohio. Animal feeder. 1,752,123; Mar. 25.

Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Refrigerating apparatus. 1,751,499; Mar. 25.

Thomson, S. H., Manufacturing Company, The. (See Hummert, Robert H., assignor.)

Thomson, William R., Fordson, Mich. Table. 1,751,536; Mar. 25.

Thorne, Clarence O., Watervliet, Mich. Paper cutter. 1,752,124; Mar. 25.

Thorne, Clarence O., Watervliet, Mich. Gauge for paper-cutting machines. 1,752,125; Mar. 25.

Thorne, Clarence O., Watervliet, Mich. Gauge for paper-cutting machines. 1,752,126; Mar. 25.

Thornley, Albert E., assignor to Narragansett Machine Company, Pawtucket, R. I. Stuffing box. 1,752,279; Mar. 25.

Thum, Martin, Rochester, N. Y. Furniture. 1,751,897; Mar. 25.

Thumim, Carl. (See Tovey, G. H., and Thumim.)

Thurber, Harry F., and F. E. Greene, assignors to The Greist Manufacturing Company, New Haven, Conn. Portable electric lamp. Des. 80,814; Mar. 25.

Time-O-Stat Controls Company. (See Cramblet, Paul K., assignor.)

Tittemore, Frank A., and C. S. Renwick, Richmond, assignors to Hopkins Spray Equipment Company, San Francisco, Calif. Paint and lacquer spray gun. 1,751,608; Mar. 25.

Toledo Steel Tube Company, The. (See Nowakowski, Albert J., assignor.)

Toole, John P., assignor to Carl E. Schmidt & Company, Detroit, Mich. Manufacturing leather. 1,752,042; Mar. 25.

Torgersen, Dag, Oslo, Norway. Work holder especially for knitting machines for mending knitted, woven, or similar articles. 1,751,956; Mar. 25.

Tovey, George H., Lansdowne, and C. Thumim, Philadelphia, Pa., assignors to General Electric Company. Electric switch. 1,752,127; Mar. 25.

Towle Aircraft Company, The. (See Towle, Tom, assignor.)

Towle, Tom, assignor to The Towle Aircraft Company, Detroit, Mich. Airplane-wing construction. 1,751,957; Mar. 25.

Transo Envelope Company. (See Sauerman, Ernest W., assignor.)

Traut, Ezra H., Detroit, Mich. Mold. 1,752,040; Mar. 25.

Travis, Bertram C., assignor of one-half to Pacific Copper and Brass Works, Incorporated, Los Angeles, Calif. Device for forming elliptical parts. 1,751,772; Mar. 25.

Treanor, Edward D., Pittsfield, Mass., assignor to General Electric Company. Switch. 1,752,213; Mar. 25.

Treiber Diesel Engine Corporation. (See Treiber, Otis D., assignor.)

Treiber, Otis D., Narberth, Pa., assignor to Treiber Diesel Engine Corporation, Camden, N. J. Apparatus for generating electric current. 1,751,958; Mar. 25.

Trench, Harry G., Hartford, Conn., assignor to The Union Trust Company, Cleveland, Ohio. Spring shackle. 1,752,284; Mar. 25.

Trimbey, Edward J., and G. K. Walker, Glens Falls, N. Y. Flow box for paper machines. 1,751,959; Mar. 25.

Trosper, Bab B., near Monroe City, Mo. Toy figure. 1,751,773; Mar. 25.

Trullinger, William L., Astoria, Oreg. Movable camera support. 1,751,774; Mar. 25.

Trumbo, Stacy D., Pittsburgh, Pa. Animal trap. 1,752,041; Mar. 25.

Truscon Steel Company. (See Kane, Thomas H., assignor.)

Truscon Steel Company. (See White, Herbert E., assignor.)

Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating machine. 1,751,609; Mar. 25.

Turner, David L., et al. (See Stephens, Erastus C., assignor.)

Uhlig, Richard, Bethlehem, Pa. Device for weighing material during its motion through a conveyer. 1,751,898; Mar. 25.

Uhri, William C., jr., Clayton, assignor to Central Engineering and Sales Company, St. Louis, Mo. Nozzle. 1,751,719; Mar. 25.

Underwood, Charles E., and J. A. Beatty, Bethlehem, Pa., assignors to Bethlehem Steel Company. Coke-oven heating flue. 1,751,775; Mar. 25.

Union Special Machine Company. (See Christensen, N. V., and Zeier, assignors.)

Union Trust Company, The. (See Trench, Harry G., assignor.)

United Kitchen Equipment Co. (See Greenwald, Paul, assignor.)

United Shoe Machinery Corporation. (See Hope, E., and Richards, assignors.)

United Shoe Machinery Corporation. (See Pope, Elmer R., assignor.)

United Shoe Machinery Corporation. (See Ridderstrom, Andrew R., assignor.)

United Shoe Machinery Corporation. (See Roberts, Clifford, assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United States Ordnance Company. (See Smith, George L., assignor.)

United Steel and Wire Company. (See Macomber, Lynn W., assignor.)

Universal Jewelry Case Co. (See Flier, Leo, assignor.)

Universal Oil Products Company. (See Egloff, Gustav, assignor.)

Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)

Universal Oil Products Company. (See Huff, Lyman C., assignor.)

Vahl, William, Rochester, N. Y. Safety gas cock. 1,752,043; Mar. 25.

Van Arsdel, Wallace B. (See Lovering, E. W., and Van Arsdel.)

Van Brunt Manufacturing Company, The. (See Schaeffer, John, assignor.)

Van EE, Willem, Long Beach, and A. H. Watson, Redondo Beach, Calif. Tube-facing tool. 1,751,776; Mar. 25.

Van Ranst, Cornelius W., Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill. Escutcheon plate for automobile instrument boards. Des. 80,815; Mar. 25.

Van Westrum, Leonard S., assignor to Bitucrete Limited, London, England. Manufacture of bituminous concrete. 1,752,214; Mar. 25.

Vapyre Corporation. (See Ford, Reid G., assignor.)

Veenstra, Benjamin, Hawthorne, N. J. Water-flow device. 1,751,960; Mar. 25.

Vereenigde Knooptapytindustrie Systeem Bányai. (See Bányai, Maurus, assignor.)

Vereinigte Schuhfabriken Bernels-Wessels A. G. (See Schaffner, Karl, assignor.)

Vetter, Louis J., assignor to Bliss Brothers Company, Attleboro, Mass. Watch bracelet. 1,752,128; Mar. 25.

Vianello, Emilio, Milan, Italy. Apparatus for compressing air, gases, or vapors. 1,751,537; Mar. 25.

Victorsohn, Morris, Brooklyn, N. Y. Apparel apparatus. 1,751,777; Mar. 25.

Viets, Floyd H., Alhambra, assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for fluid-pressure regulation. 1,752,268; Mar. 25.

Vieu, Charles, and L. Mourgeon; said Vieu assignor to said Mourgeon and Compagnie des Mines de Vicoigne, Noeux & Drocourt, Paris, France. Apparatus for the manufacture of smokeless fuel. 1,752,044; Mar. 25.

Von Braun, Julius, and O. Bayer, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Catalytically reducing anthraquinone compounds and new hydrogenized products derived therefrom. 1,751,670; Mar. 25.

Von Frankenberg, Arthur, New York, N. Y. Combination cigarette holder and ash tray or the like article. Des. 80,816; Mar. 25.

Von Girsewald, Conwsy F., and H. Neumark, Frankfort-on-the-Main, Germany. Making zinc from oxygen compounds of zinc or substances containing oxygen compounds of zinc. 1,751,778; Mar. 25.

Von Kert Hott, Ion, assignor to The Joyce-Pridland Company, Dayton, Ohio. Multiple-lift screw jack. 1,751,738; Mar. 25.

Von Korshenewsky, Nicolai, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Alternating-current system. 1,751,961; Mar. 25.

Von Senden, Boyd V., San Francisco, Calif., assignor of one-third to T. Hardee and one-third to G. N. Bjorge. Wheel-rim lock. 1,751,779; Mar. 25.

Von Winkler Laboratories, Incorporated. (See Winkler, Walter T., assignor.)

Vorclone Company. (See Prothers, Harold, assignor.)

Vought, Chance M. (See Herbig, Elwood H., assignor.)

Wade, Raymond S. (See Davidson, J. H., and Wade.)

Wadsworth, Frank L. O., Pittsburgh, Pa. Nonglare front-view mirror. 1,751,567; Mar. 25.

Wagner, Frederick H., assignor to The Bartlett Hayward Company, Baltimore, Md. Gas washer. 1,752,045; Mar. 25.

Waldron, John, Corporation. (See Case, Lynn B., assignor.)

Walker, George K. (See Trimbey, E. J., and Walker.)

Walker, Herbert W. (See Calcott, W. S., and Walker.)

Wallace, R., & Sons Manufacturing Company. (See Warren, William S., assignor.)

Walsh, John J., assignor to Millum Shoe Company, St. Louis, Mo. Ornamental leather goods. 1,751,962; Mar. 25.

Ward-Love Pump Corporation. (See Johnson, Oscar W., assignor.)

Warren City Tank & Boiler Company, The. (See Patterson, John F., assignor.)

Warren, William S., Meriden, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. Des. 80,817; Mar. 25.

Warren, William S., Meriden, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. Des. 80,818; Mar. 25.

Washburn Company, The. (See Glenny, Clarence S., assignor.)

Waters, Millord F., assignor to Smith Separator Company, Tulsa, Okla. Oil and gas separator. 1,752,215; Mar. 25.

Watson, Alexander H. (See van Ee., W., and Watson.)

Watson, John M., Shell, Wyo. Ax. 1,752,129; Mar. 25.

Webb, Glenn E., Kansas City, Mo. Water softener. 1,751,671; Mar. 25.

Webb, Joseph, Cincinnati, Ohio. Corn-harvesting apparatus. 1,752,216; Mar. 25.

Wehr, William G., East Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. I-beam clamp. Re17,629; Mar. 25.

Welger, Joseph A., Union City, N. J., assignor, by mesne assignments, to P. R. Mallory & Co., Incorporated, Indianapolis, Ind. Bearing material for current-traversed bearings. 1,751,780; Mar. 25.

Weinschreider, Walter, Chicago, Ill. Tie. 1,751,963; Mar. 25.

Weinstein, Sol B., Greensboro, N. C. Shirt and trousers holder. 1,752,217; Mar. 25.

Weiss, Theobald C., assignor to Electric Sprayit Company, South Bend, Ind. Motor-driven-tools' switch. 1,751,781; Mar. 25.

Wells, George M., assignor to American Steel Products Co., Macomb, Ill. Carton for sectoral canopies. 1,751,782; Mar. 25.

Weltha Process Corporation. (See Andersen, George F., assignor.)

Westdahl, Sven A., Sellersville, Pa. Slicing machine. 1,751,672; Mar. 25.

Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Ray, James L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)

Wheeling Steel Corporation. (See Kielberg, Henry, assignor.)

Whirldry Corporation. (See Dunham, George W., assignor.)

White, Harold E., Anniston, assignor to Federal Phosphorus Company, Birmingham, Ala. Elimination of silicon in ferrophosphorus. 1,751,783; Mar. 25.

White, Herbert E., assignor to Truscon Steel Company, Youngstown, Ohio. Weather strip for casement sashes. 1,751,720; Mar. 25.

White Motor Company, The. (See Howell, James W., assignor.)

White Showers Inc. (See Lindhorst, Frederick L., assignor.)

White, William E., assignor to Kalman Steel Company, Chicago, Ill. Bar chair. 1,751,673; Mar. 25.

Whitfield, Harry A., Arlington, N. J. Cooling unit. 1,751,899; Mar. 25.

Whitney, F. A., Carriage Company. (See Shaw, Harold F., assignor.)

Whittle, Horace, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric coupling circuits. 1,752,046; Mar. 25.

Whitwell, George E., Seattle, assignor to Young-Whitwell Gas Process Company, Tacoma, Wash. Back-run method of operating gas plants. 1,752,223; Mar. 25.

Wilbur, George A., Lansing, Mich. Window stop. 1,752,218; Mar. 25.

Wilcox, Edgar M. (See Hannauer, G., and Wilcox.)

Wild, Gunther P., Philadelphia, Pa. Door fastener. 1,752,181; Mar. 25.

Wilkerson, Daniel C., Washington, D. C. Thermionic device. 1,752,182; Mar. 25.

Wilkes, Alfred L., Los Angeles, Calif. Casting machine. 1,751,846; Mar. 25.

Wilson, Charles W., Renton, Wash. Faucet. 1,751,900; Mar. 25.

Wilt, John J., Bakersfield, Calif. Radiator gauge. 1,751,847; Mar. 25.

Winckler, Walter T., Chicago, Ill., assignor to Von Winkler Laboratories, Incorporated. Pharmaceutical compound and making same. 1,751,964; Mar. 25.

Winkelmann, Herbert A. (See Jones, W. N., and Winkelmann.)

Winkelmann, Herbert A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber composition and producing the same. 1,751,848; Mar. 25.

Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for cutting sheet material. 1,751,568; Mar. 25.

Winship, Ross, Valparaiso, Ind. Combination desk. 1,751,569; Mar. 25.

Winslow, Charles A. (See Hall, E. J., and Winslow.)

Winter, William C., Parnassus, assignor to Aluminum Company of America, Pittsburgh, Pa. Forming articles from heat-treatable aluminum-base alloys. 1,751,500; Mar. 25.

Wirt, Harrison L., Schenectady, N. Y. Food sieve. 1,752,047; Mar. 25.

Wolf Machine Company. (See Harrington, Bertie S., assignor.)

Wolgamood, Hugh M., assignor of one-half to J. E. Pickard, Denver, Colo. Floor-finishing machine. 1,751,133; Mar. 25.

Wolters, John H., Lewisville, Tex. Vending machine. 1,751,674; Mar. 25.

Wood, Avis D., Lakewood, N. J. Extension seat. 1,751,966; Mar. 25.

Woodford, Joe C., assignor to Service Station Equipment Company, Bryan, Ohio. Air-service station. 1,752,048; Mar. 25.

Woodman, Leo K. (See Woodman, William S., assignor.)

Woodman, William S., Lakewood, assignor of one-fourth to L. K. Woodman, Cleveland, Ohio. Knockdown container. 1,752,134; Mar. 25.

Woolfenden, Henry L., Detroit, Mich. Building structure. 1,751,965; Mar. 25.

Woolworth, F. W., Co. (See Newberry, William F., assignor.)

Wunsch, Felix, assignor to Leeds & Northrup Company, Philadelphia, Pa. System of frequency or speed measurement and control. 1,751,538; Mar. 25.

Wunsch, Felix, assignor to Leeds & Northrup Company, Philadelphia, Pa. Frequency and speed control. 1,751,539; Mar. 25.

Wünsch, Guido, Steglitz, near Berlin, assignor to Askania-Werke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Kaiserallee, Berlin-Friedenau, Germany. Apparatus for the regulation of driving engines for electric-current generators. 1,752,135; Mar. 25.

Yale & Towne Manufacturing Company, The. (See Brauning, Karl A., assignor.)

Yerkovich, Mirko S., San Francisco, Calif. Letter envelope sheet. 1,751,610; Mar. 25.

Yoder Pencil Company, The. (See Morris, Howard I., assignor.)

York Heating and Ventilating Corporation. (See Lewis, A. T., and French, assignors.)

Young, Charles O., Charleston, W. Va., assignor to Carbide & Carbon Chemicals Corporation. Production of halogen substitution products of olefines. 1,752,049; Mar. 25.

Young, Daniel J., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash. Back-run process of making water gas. 1,751,501; Mar. 25.

Young, Daniel J., assignor to Young-Whitwell Gas Process Co., Tacoma, Wash. Making uncarbureted water gas. 1,751,502; Mar. 25.

Young, Daniel J., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash. Gas manufacture. 1,751,503; Mar. 25.

Young, Daniel J., assignor to Young-Whitwell Gas Process Co., Tacoma, Wash. Apparatus for the manufacture of illuminating gas. 1,751,784; Mar. 25.

Young, Daniel J., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash. Gas-making process. 1,751,849; Mar. 25.

Young, Horace J., Westminster, assignor of one-half to Swan, Hunter & Wigham Richardson Limited, New Castle-upon-Tyne, England. Regeneration or purification of lubricating oils. 1,752,050; Mar. 25.

Young, Porus J., Bomont, W. Va. Swimming appliance. 1,752,051; Mar. 25.

Young-Whitwell Gas Process Company. (See Steere, Frank W., assignor.)

Young-Whitwell Gas Process Company. (See Whitwell, George E., assignor.)

Young-Whitwell Gas Process Company. (See Young, Daniel J., assignor.)

Younie, Lewis E., assignor to Electric Steel Foundry Company, Portland, Oreg. Drag bucket. 1,751,967; Mar. 25.

Yuasa, Toichiro, Tokyo, Japan. Automatic filaturing machine. 1,751,968; Mar. 25.

Zangerle & Peterson Company. (See Anderson, Otto A., assignor.)

Zeier, Frederick F. (See Christensen, N. V., and Zeier.)

Zieburts, Henry C., Cleveland Heights, Ohio. Clothesline clamp or holder. 1,751,850; Mar. 25.

Zimmerman, John W., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of type. Des. 80,819; Mar. 25.

Zwingler, Phillip C., North Lima, Ohio. Curtain protector. 1,751,504; Mar. 25.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF MARCH, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accounting table. E. C. Rasmussen. 1,751,494; Mar. 25.
Acid from weak nitric liquors, Recovering nitric. H. Hirtz. 1,752,086; Mar. 25.
Acid, Production of hydrocyanic. F. Lindner and F. Link. 1,751,933; Mar. 25.
Acoustic apparatus, particularly signaling apparatus. H. Küchenmeister. 1,752,185; Mar. 25.
Adhesive. H. F. Gardner. 1,751,988; Mar. 25.
Adjustable seat. A. A. Cripps. 1,751,907; Mar. 25.
Aeroplane. G. Y. Lauchin. 1,752,012; Mar. 25.
Aeroplane rudder-bar control. J. C. Spencer. 1,752,118; Mar. 25.
Agitating, etc., machine. H. Robinson. 1,752,202–3; Mar. 25.
Air, Apparatus for filtering. J. C. Hines. 1,751,999; Mar. 25.
Air-circulating device for vehicles, heaters, and the like. S. J. V. Bovey. 1,751,680; Mar. 25.
Air cleaner. E. J. Hall and C. A. Winslow. 1,751,915; Mar. 25.
Aircraft. J. Domenjoz. 1,752,241; Mar. 25.
Aircraft. E. H. Herbig. 1,751,631; Mar. 25.
Aircraft, Balancing system for. J. P. Tarbox. 1,752,119; Mar. 25.
Air, gases, or vapors, Apparatus for compressing. E. Vianello. 1,751,537; Mar. 25.
Airplane-wing construction. T. Towle. 1,751,957; Mar. 25.
Air service station. J. C. Woodford. 1,752,048; Mar. 25.
Airships, Mooring for. F. H. Clergue. 1,751,543; Mar. 25.
Airships, Propelling means for. F. G. Landwehr. 1,751,624; Mar. 25.
Alcoholic solutions, Noncorrosive. W. S. Calcott and H. W. Walker. 1,752,145; Mar. 25.
Alumino-thermic mixture, Preparing. R. W. Hyde. 1,751,550; Mar. 25.
Amplifier. J. V. Godbery. 1,752,252; Mar. 25.
Amplifying system, Distortionless. H. Nyquist. 1,751,527; Mar. 25.
Anchor, Bolt. J. Karitzky. 1,751,818; Mar. 25.
Animal trap. S. D. Trumbo. 1,752,041; Mar. 25.
Anode and making same. W. J. Harshaw, P. M. Savage, and F. K. Bezzenberger. 1,751,630; Mar. 25.
Anthraquinone compounds and new hydrogenized products derived therefrom, Catalytically reducing. J. von Braun and O. Bayer. 1,751,670; Mar. 25.
Antirattler for windows. H. G. Jorgensen. 1,751,699; Mar. 25.
Antiskid device. F. G. Parker. 1,752,024; Mar. 25.
Apparel apparatus. M. Victorsohn. 1,751,777; Mar. 25.
Arc welding. M. R. Taylor. 1,751,668; Mar. 25.
Articles from heat-treatable aluminum-base alloys, Forming. R. S. Archer. 1,751,468; Mar. 25.
Articles from heat-treatable aluminum-base alloys, Forming. W. C. Winter. 1,751,500; Mar. 25.
Autographic register. L. F. Hagemann. 1,751,547; Mar. 25.
Automatic locking elevator. A. W. McKenzie. 1,751,644; Mar. 25.
Automatic sprinkler. F. L. Lindhorst. 1,751,641; Mar. 25.
Automobile body. G. Tasman. 1,751,771; Mar. 25.
Automobile handling apparatus. H. S. Moore. 1,751,874; Mar. 25.
Automobile heater. J. J. Sunday. 1,752,038; Mar. 25.
Automobile signal. A. P. Gustafson. 1,751,812; Mar. 25.
Automobiles, Hold-down device for. I. L. Friedlaender. 1,751,512; Mar. 25.
Automotive distillate, Manufacture of high-compression. C. J. Pratt. 1,752,264; Mar. 25.
Awning, Auto. G. L. Newkirk. 1,751,750; Mar. 25.
Awning, Automobile. C. G. Hale. 1,751,478; Mar. 25.
Ax. J. M. Watson. 1,752,129; Mar. 25.
Back-run process of making water gas. D. J. Young. 1,751,501; Mar. 25.
Bacon forming or shaping machine. H. C. Massey. 1,752,190; Mar. 25.
Bag: *See*—
  Hand bag. Shopping bag.
Bait, Artificial. L. B. Huntington. 1,752,088; Mar. 25.
Ball-bearing roller. A. E. Dekome. 1,751,795; Mar. 25.
Balustrade post. A. F. Miller. 1,752,018; Mar. 25.
Bar: *See*—
  Tile hanger bar.
Bar chair. W. E. White. 1,751,673; Mar. 25.
Barium sulphate, Refining and purifying. H. V. Farr. 1,752,244; Mar. 25.
Basket machine. C. J. Dudley. 1,751,728; Mar. 25.
Batter fork. E. Buck. 1,751,853; Mar. 25.
Battery separators, Device for shaping. V. A. Smith. 1,751,892; Mar. 25.
Bearing, Loop. A. W. Dean. 1,751,980; Mar. 25.
Bearing material for current-traversed bearings. J. A. Weiger. 1,751,780; Mar. 25.
Bearing, Thrust. H. W. Nieman. 1,751,651; Mar. 25.
Bender. A. J. Nowakowski. 1,751,492; Mar. 25.
Binder, Loose-leaf. A. G. Lotter. 1,751,553; Mar. 25.
Binder, Loose-leaf. A. G. Lotter. 1,751,589; Mar. 25.
Bit for boring long holes. E. Muhlhoff. 1,752,262; Mar. 25.
Bitumen, Device for spreading. C. G. Talbott. 1,751,565; Mar. 25.
Blasting apparatus. G. S. Rice. 1,751,659; Mar. 25.
Block: *See*—
  Brake block. Building block.
Board: *See*—
  Slide, seesaw, and jumping board.
Boiler. H. Taylor. 1,751,534; Mar. 25.
Boiler and setting therefor. D. S. Jacobus. 1,751,551; Mar. 25.
Bonnet, Collapsible. F. Gust. 1,752,172; Mar. 25.
Boom for derricks, Extension. A. C. Crandall. 1,751,794; Mar. 25.
Boring machine, Line-. M. C. Cox and R. B. Ryan. 1,752,066; Mar. 25.
Bottle. W. R. Root. Des. 80,808; Mar. 25.
Bottle-capping machine. V. M. Kloss. 1,752,008; Mar. 25.
Bottle cooler. J. M. Schilling. 1,751,558; Mar. 25.
Bowl, Egg-beater. W. F. Newberry, Des. 80,804; Mar. 25.
Box: *See*—
  Collapsible and reducing box. Stuffing box.
Box. F. J. Schleicher. Des. 80,811; Mar. 25.
Box for baby chicks, Shipping. A. B. Hilkemeyer. 1,752,177; Mar. 25.
Box or similar receptacle. K. R. Haley. Des. 80,790; Mar. 25.
Bracelet. E. G. Carlson. 1,751,792; Mar. 25.
Bracket. O. S. Flath. 1,751,691; Mar. 25.
Brake: *See*—
  Compression brake.
Brake block. H. C. Georgi. 1,751,911; Mar. 25.
Brake for baby carriages. H. F. Shaw. 1,752,269; Mar. 25.
Brake levers to connecting rods, Attachment of. F. Schaefer. 1,751,661; Mar. 25.
Brake system. G. L. Smith. 1,752,209; Mar. 25.
Brick machine. R. I. McCarty. 1,751,870; Mar. 25.
Broadcasting system, Common-frequency. E. I. Green. 1,751,516; Mar. 25.
Broiler. C. M. Dibble. 1,751,726; Mar. 25.
Bucket, Drag. L. E. Younie. 1,751,967; Mar. 25.
Buckle, Shoe. S. M. Riker. Des. 80,805–7; Mar. 25.
Building block. J. Nash. 1,751,748; Mar. 25.
Building construction. A. F. Bemis. 1,752,058; Mar. 25.
Building structure. H. L. Woolfenden. 1,751,965; Mar. 25.
Burglar-alarm system. S. B. Hess. 1,752,083; Mar. 25.
Burner: *See*—
  Hydrocarbon burner. Oil burner.
  Liquid-fuel burner.
Burner. F. S. Bitgood. 1,751,722; Mar. 25.
Burner-control means. L. W. Eggleston. 1,751,688; Mar. 25.
Button, Garter. C. A. Nash. 1,751,707; Mar. 25.
Button, Imitation braided. S. Schlosberg. 1,751,763; Mar. 25.
Cabinet for radio receiving apparatus. C. S. Bradley. Des. 80,774; Mar. 25.
Cabinet, Radio clock. M. K. Bernstein. Des. 80,771; Mar. 25.
Cabinet, Sanitary milk. T. B. Nettle and J. W. Klein. 1,751,749; Mar. 25.
Cabinet, Sterilizing. A. R. Schwarzkopf. 1,752,265; Mar. 25.
Cage body, Bird-. G. C. Hoefler. Des. 80,791–2; Mar. 25.
Calculating machine. J. A. V. Turck. 1,751,609; Mar. 25.
Calendars, Making. A. F. Osterlind. 1,751,752; Mar. 25.
Cam. J. O. McKean. 1,751,988; Mar. 25.
Can: *See*—
  Dispensing can. Oil can.
Canning. A. K. Malmquist. 1,751,642; Mar. 25.
Cane stalks, Apparatus for preparing. W. H. Morgan, sr. 1,751,838; Mar. 25.
Car. Collapsible kiddy. T. G. Shannon. 1,751,765; Mar. 25.
Car shipping appliance, Freight-. G. Borowka. 1,751,788; Mar. 25.

Carbonaceous material, Manufacture of absorbent. O. L. Barnebey and M. B. Cheney. 1,751,612; Mar. 25.
Carburetor. A. D. Austin. 1,751,461; Mar. 25.
Carburetor. W. C. Carter. 1,751,976; Mar. 25.
Carburetor. R. F. Ensign. 1,751,983; Mar. 25.
Carburetor. H. B. Petit. 1,752,283; Mar. 25.
Carburetor for internal-combustion engines. H. E. Fairbrother and E. Charrington. 1,752,161; Mar. 25.
Carcass splitter. B. S. Harrington. 1,752,257; Mar. 25.
Card and cover therefor, Record. F. Riehle. 1,751,885; Mar. 25.
Card and producing the same, Photographic. G. N. Pifer. 1,751,882; Mar. 25.
Carrier: *See*—
  Storage-battery carrier.
Carton for sectoral canopies. G. M. Wells. 1,751,782; Mar. 25.
Case: *See*—
  Cigarette case.
Cast-iron mold. J. L. Dostal. 1,751,727; Mar. 25.
Caster. M. E. Roe. 1,752,030; Mar. 25.
Casting machine. J. W. Smith. 1,751,766; Mar. 25.
Casting machine. A. L. Wilkes. 1,751,846; Mar. 25.
Cellulose, Isolation of benzyl. E. Dörr. 1,751,685; Mar. 25.
Centering means for blank-cutting dies. E. W. Sauerman. 1,751,603; Mar. 25.
Chair: *See*—
  Bar chair. Stadium chair.
  Convertible chair.
Chair. F. Debski. Des. 80,782; Mar. 25.
Chair. G. H. Mew and L. N. Smith. 1,752,102; Mar. 25.
Chair for hunters. W. M. Nash. 1,752,105; Mar. 25.
Cigarette case. H. O. Jordan. 1,751,021; Mar. 25.
Circuit maker and breaker. W. N. Clurman. 1,752,149; Mar. 25.
Circuits, Electric coupling. H. Whittle. 1,752,046; Mar. 25.
Circuits, Oscillatory. A. Meissner. 1,751,592; Mar. 25.
Clamp: *See*—
  I-beam clamp. Rope clamp.
Clamp. A. Clarke. 1,751,620; Mar. 25.
Clamp or holder, Clothesline. H. C. Zieburts. 1,751,850; Mar. 25.
Clamping mechanism for rolling screens. G. M. Sacerdote. 1,751,950; Mar. 25.
Cleaner: *See*—
  Air cleaner. Steam cleaner.
Cleaning composition. J. Sendelback and R. V. Palmer. 1,751,764; Mar. 25.
Cleaning device for slicing-machine knives. P. Sivertsen. 1,751,891; Mar. 25.
Cleaning drier. S. Chase, 4th, and B. S. Pfeiffer. 1,751,681; Mar. 25.
Clear-vision device. K. M. MacLennan and J. O. Marcelais. 1,751,519; Mar. 25.
Clock. A. Dorsey. 1,751,542; Mar. 25.
Closure, Electrically-controlled receptacle. M. J. Du Feau. 1,751,801; Mar. 25.
Closure for bottles and jars. E. Johannssen. 1,752,090; Mar. 25.
Closure for use with burner units. J. L. Breese, jr. 1,751,973; Mar. 25.
Clothes drier. C. A. Pickens. 1,751,841; Mar. 25.
Clutch, Friction. J. F. Glisch. 1,751,809; Mar. 25.
Clutch, Friction. H. W. Sweet. 1,752,039; Mar. 25.
Coal or other fuel, Apparatus for pulverizing. J. Mullin. 1,751,525; Mar. 25.
Coating apparatus. T. Robinson. 1,751,949; Mar. 25.
Cock, Safety gas. W. Vahl. 1,752,043; Mar. 25.
Coffer dam and method of construction. W. S. Monroe and J. C. Sanderson. 1,751,835; Mar. 25.
Coils, Producing electric. M. Barnum. 1,751,971; Mar. 25.
Coin handler. W. C. Bower. 1,751,615; Mar. 25.
Collapsible and reducing box. G. W. Paris. 1,751,755; Mar. 25.
Collar stiffener. J. Oppermann. 1,751,655; Mar. 25.
Collating table. H. J. Stewart. 1,751,895; Mar. 25.
Collector for hoisting apparatus, Current. E. R. Jones. 1,752,182; Mar. 25.
Combustion apparatus. H. Taylor. 1,751,498; Mar. 25.
Compartment pan. E. F. Ahearn. 1,752,137; Mar. 25.
Compensating asynchronous machine, Self-exciting. J. L. Matabon and C. M. Foucault. 1,751,937; Mar. 25.
Compression brake. L. D. Brueckel. 1,752,229; Mar. 25.
Compressor. R. L. King. 1,752,093; Mar. 25.
Compressor, Air. J. Rosett. 1,751,843; Mar. 25.
Compressor, Piston-ring. J. F. Cavanagh. 1,751,977; Mar. 25.
Concentrator. F. D. Goody. 1,752,169; Mar. 25.
Concrete, Manufacture of bituminous. L. S. van Westrum. 1,752,214; Mar. 25.
Confection having a liquid mass therein, Making a chocolate-covered. W. Horra. 1,752,001; Mar. 25.
Connecter, Electrical. M. W. Beemer. 1,751,572; Mar. 25.
Connection for transmission lines, Multiple-way. D. Mitchell and H. C. Silent. 1,751,522; Mar. 25.
Container. H. Kielberg. 1,751,926–7; Mar. 25.
Container and pyrophoric lighter, Combined cigarette. L. V. Aronson. Des. 80,770; Mar. 25.
Container for surgical bandages. B. B. Flint. 1,752,163; Mar. 25.
Container, Knockdown. W. S. Woodman. 1,752,134; Mar. 25.
Control, Cooling-fluid. H. A. Smith. 1,752,116; Mar. 25.
Convertible chair. J. K. Prassas. 1,751,599–600; Mar. 25.
Converting apparatus. A. S. Fitz Gerald. 1,752,247; Mar. 25.
Cooking apparatus. H. Brucker. 1,751,974; Mar. 25.
Cooler: *See*—
  Bottle cooler.
Cooler. R. J. Bennett. 1,751,851; Mar. 25.
Cooling device. F. E. Dennison. 1,751,623; Mar. 25.
Cooling system for internal-combustion locomotives. C. C. C. Burkhardt. 1,752,230; Mar. 25.
Cooling unit. H. A. Whitfield. 1,751,899; Mar. 25.
Coop or crate, Poultry. L. W. Macomber. 1,752,008; Mar. 25.
Core and forming the same. E. L. Leasman. 1,751,482; Mar. 25.
Core-drill attachment, Rotary. A. L. Armentrout and E. B. Hall. 1,751,678; Mar. 25.
Core-forming apparatus. T. H. Brown. 1,751,470; Mar. 25.
Cork puller. H. E. Briggs. 1,752,227; Mar. 25.
Corset. M. H. Bowne. 1,751,506; Mar. 25.
Coupling: *See*—
  Flexible coupling.
Coupling. C. W. Hansell. 1,751,996; Mar. 25.
Cover and top feed guide, Can. J. Mengel. 1,751,520; Mar. 25.
Cover or similar article of manufacture. Box. J. A. Corbett. Des. 80,780; Mar. 25.
Cover-separating means. J. Peyser. 1,751,556; Mar. 25.
Covering for plater rolls. J. T. Johnston. 1,752,005; Mar. 25.
Crane. E. J. G. Phillips. 1,752,026; Mar. 25.
Crane, Locomotive. A. E. Holcomb. 1,751,633; Mar. 25.
Creping mechanism. S. J. Campbell. 1,751,471; Mar. 25.
Cultivator. M. Doersch. 1,752,070; Mar. 25.
Cultivator attachment. J. T. Clark. 1,751,682; Mar. 25.
Current, Apparatus for generating electric. O. D. Treiber. 1,751,958; Mar. 25.
Current electromagnet, Alternating-. H. N. Packard. 1,752,023; Mar. 25.
Current system, Alternating-. N. von Korshenewsky. 1,751,961; Mar. 25.
Current-tap fitting. M. Propp. 1,751,842; Mar. 25.
Curtain protector. P. C. Zwingler. 1,751,504; Mar. 25.
Cushion: *See*—
  Window cushion.
Cutter: *See*—
  Paper cutter.
Cutter and lifter, Dandelion. W. J. La Tourrette. 1,751,481; Mar. 25.
Cutter and planter, Seed-potato. E. O. Braaten and O. R. Harmer. 1,751,574; Mar. 25.
Cylinder or bushing and recessing the same, Hollow. G. H. Clark. 1,751,906; Mar. 25.
Cylinders, End assembly for drum scale. A. W. Ferguson. 1,751,985; Mar. 25.
Damper for warm-air furnaces. R. S. McNaney. 1,751,880; Mar. 25.
Davenport or like article. O. A. Anderson. Des. 80,769; Mar. 25.
Dental molding machines, Vibratory device for. A. C. Sloan. 1,752,206; Mar. 25.
Desk, Combination. R. Winship. 1,751,569; Mar. 25.
Detector: *See*—
  Temperature detector.
Dial mechanism. W. A. Ready. 1,751,658; Mar. 25.
Diffusing apparatus for spreading products for the maintenance of roadways, Centrifugal. A. J. Schars. 1,751,531; Mar. 25.
Digger and reamer, Post-hole. A. E. Miller. 1,751,521; Mar. 25.
Dipper, Excavating. W. E. Miley. 1,751,745; Mar. 25.
Direction indicator, Automobile. B. Jablonsky. 1,751,637; Mar. 25.
Dispenser, Beverage. L. G. Ames and R. C. Browne. Des. 80,768; Mar. 25.
Dispenser, Coffee. J. Terborg. 1,751,535; Mar. 25.
Dispenser, Mucilage. L. S. Kositchek. Des. 80,793; Mar. 25.
Dispensing apparatus, Beverage. C. M. Cordley. 80,781; Mar. 25.
Dispensing apparatus, Coin-controlled liquid-. E. E. Cooper. 1,752,150; Mar. 25.
Dispensing apparatus, Liquid-. J. B. Davis. 1,752,068; Mar. 25.
Dispensing can, Lubricant-. H. A. Franchere and A. E. Jepp. 1,751,732; Mar. 25.
Dispensing machine. W. G. Crankshaw. 1,752,067; Mar. 25.
Display means, Shadow-motion. A. B. Leech. 1,752,014; Mar. 25.
Display stand. A. M. Borland, jr. 1,751,505; Mar. 25.
Display stand. M. Metzger. 1,752,017; Mar. 25.
Display stand, Advertising. E. A. Born. 1,751,614; Mar. 25.
Dock for flying machines. H. Junkers. 1,751,639; Mar. 25.
Doll. D. McNeil. Des. 80,803; Mar. 25.
Door construction. C. Morgana. 1,751,746; Mar. 25.
Door for washer drums. H. Prothers. 1,751,946; Mar. 25.
Door opening for railway cars, Convertible side-. C. J. Ellis. 1,751,802; Mar. 25.
Drain trap. W. B. Nance. 1,751,877; Mar. 25.

Drapery rods, Connection for. P. J. Mitchels. 1,752,020; Mar. 25.
Dress. D. Long. Des. 80,795–8; Mar. 25.
Drier: *See*—
Cleaning drier. Clothes drier.
Drill: *See*—
Grain drill.
Drill press, Narrow-frame. G. E. Hallenbeck. 1,751,994; Mar. 25.
Drop-leaf table. J. Kimp. 1,751,586; Mar. 25.
Drying process and apparatus. A. A. Criqui. 1,751,472; Mar. 25.
Dye. W. Kritchevsky, H. C. Prutsman, and B. Morrill. 1,752,184; Mar. 25.
Dye derived from diamino carbazoles and arylides of unsulphonated hydroxy carboxylic acid, Primary disazo. H. Clingestein and H. W. Grimmel. 1,751,683; Mar. 25.
Dyestuffs and preparing same, Azo. E. Glietenberg and A. Sigwart. 1,752,075; Mar. 25.
Elastic band structure. L. Nachman and S. Finkelstein. 1,751,595; Mar. 25.
Electric device, Vapor. C. A. Sabbah. 1,752,204; Mar. 25.
Electric discharge, Device for producing an. L. N. Brillouin. 1,752,228; Mar. 25.
Electric furnace. A. E. Greene. 1,751,913; Mar. 25.
Electric heater. E. B. Overshiner. 1,751,754; Mar. 25.
Electric induction furnace. A. E. Greene. 1,751,912; Mar. 25.
Electric machines, Standardising the manufacture of dynamo-. T. Schou. 1,751,559; Mar. 25.
Electric motor, Compensated asynchronous. P. Letrilliart. 1,751,484; Mar. 25.
Electric switch. V. A. Conklin. 1,752,236; Mar. 25.
Electric switch. G. H. Tovey and C. Thumim. 1,752,127; Mar. 25.
Electrical device, Automatically-timed. J. Mulder. 1,751,875; Mar. 25.
Electrical high-resistance unit. S. Loewe. 1,751,587; Mar. 25.
Electrical system. D. C. Prince. 1,752,109; Mar. 25.
Elevating mechanism. J. W. Howell. 1,751,480; Mar. 25.
Elevator: *See*—
Automatic locking elevator.
Elevator. J. Bergsten. 1,751,852; Mar. 25.
Elevator installation. E. W. Peterson. 1,752,025; Mar. 25.
Elliptical parts, Device for forming. B. C. Travis. 1,751,772; Mar. 25.
Embossing cutter head. A. S. Plater. 1,752,107; Mar. 25.
Emulsions, Preparing. K. Hattori. 1,752,176; Mar. 25.
Enamel-ware articles, Making. J. Foster, jr. 1,752,073; Mar. 25.
Engine: *See*—
Internal-combustion engine. Leverage engine.
Engine. V. Link. 1,751,743; Mar. 25.
Engine construction. E. Nibbs. 1,751,653; Mar. 25.
Engine-cooling system. L. P. Barlow. Re17,627; Mar. 25.
Engines, Combined charge and air heater for internal-combustion. J. R. Francis. 1,751,511; Mar. 25.
Engines, Dust separator for internal-combustion. C. F. Heinss, sr. 1,752,081; Mar. 25.
Engines for electric-current generators, Apparatus for the regulation of driving. G. Wünsch. 1,752,135; Mar. 25.
Envelope sheet, Letter. M. S. Yerkovich. 1,751,610; Mar. 25.
Escutcheon plate for automobile instrument boards. C. W. Van Ranst. Des. 80,815; Mar. 25.
Etching, Process of and product for photographic. A. B. Davis. 1,751,908; Mar. 25.
Exerciser casing. W. E. Sharp. Des. 80,812; Mar. 25.
Extension sheet. A. D. Wood. 1,751,966; Mar. 25.
Extension table. F. P. McNulty. 1,751,831; Mar. 25.
Extension table. H. Siskin. 1,751,952; Mar. 25.
Extension table, Automatic. J. Cooper. 1,752,065; Mar. 25.
Extractor: *See*—
Fluid extractor.
Extruding machine. G. H. Schanz. 1,751,844; Mar. 25.
Eye construction, Doll's-. S. Marcus. 1,752,275; Mar. 25.
Eyeshield or guard for use in connection with spectacles, eyeglasses, goggles, or the like. H. Cloran. 1,752,233; Mar. 25.
Fabric and the treatment of subdivided materials. S. C. Smith. 1,752,210; Mar. 25.
Fan. F. Moreno. 1,752,192; Mar. 25.
Fan protector. E. K. Cook. 1,751,798; Mar. 25.
Fastener, Door. G. P. Wild. 1,752,131; Mar. 25.
Fastener, Hood. N. G. Anderson. 1,751,671; Mar. 25.
Fastener, Rope. A. Schoenberger. 1,751,762; Mar. 25.
Fastening device for garment straps. L. A. Kelley. 1,751,925; Mar. 25.
Fastening-supplying mechanism. E. R. Pope. 1,751,598; Mar. 25.
Fatty substances, Apparatus for melting. G. Pellerin. 1,751,713; Mar. 25.
Faucet. C. W. Wilson. 1,751,900; Mar. 25.
Feeder, Animal. J. A. Thompson. 1,752,123; Mar. 25.
Fiber article and manufacturing the same, Waterproof. E. W. Lovering and W. B. Van Arsdel. 1,751,935; Mar. 25.
Fibrous material, Apparatus for making. R. L. Loomis. 1,751,866; Mar. 25.
Filaturing machine, Automatic. T. Yuasa. 1,751,968; Mar. 25.
Film cut-out. H. E. Butler. 1,752,258–9; Mar. 25.
Filter. R. Kniesel. 1,751,819; Mar. 25.
Filter, Water. C. L. Burright and M. J. Snyder. 1,752,060; Mar. 25.
Fire-control mechanism. H. W. Nieman. 1,751,649; Mar. 25.
Fire extinguishers, Grenade support for. H. M. Grills. 1,751,810; Mar. 25.
Fire-extinguishing system. D. W. Patterson. 1,752,263; Mar. 25.
Fishing rod. C. T. Pflueger. 1,752,027; Mar. 25.
Flange lubricator. E. C. Howerton and A. Berglin. 1,751,635; Mar. 25.
Flax-pulling mechanism. T. W. Hall. 1,751,916; Mar. 25.
Flexible coupling. H. D. Ainsworth. 1,752,138; Mar. 25.
Flexible coupling. L. M. Persons. 1,752,106; Mar. 25.
Flexible wheel. J. J. C. Larose. 1,751,929; Mar. 25.
Floor-finishing machine. H. M. Wolgamood. 1,752,133; Mar. 25.
Flue cap. J. A. McCarthy. Des. 80,802; Mar. 25.
Flue, Coke-oven heating. C. E. Underwood and J. A. Beatty. 1,751,775; Mar. 25.
Flue construction. C. M. Dibble. 1,751,798; Mar. 25.
Fluid extractor, Vacuum. L. W. Browne. 1,751,619; Mar. 25.
Fluid-pressure regulation, Apparatus for. F. H. Viets. 1,752,268; Mar. 25.
Fluids under pressure, Release device for. D. Mapes. 1,751,705; Mar. 25.
Foldable screen. H. C. Ford. 1,751,807; Mar. 25.
Folding bookrack. N. S. Amstutz. 1,751,677; Mar. 25.
Folding machine. A. R. Ridderstrom. 1,751,884; Mar. 25.
Font of type. J. W. Zimmerman. Des. 80,819; Mar. 25.
Fork: *See*—
Batter fork.
Foundations, Constructing. R. L. Smith. 1,751,607; Mar. 25.
Frame for license plates. M. Hedglon. 1,752,080; Mar. 25.
Freezer, Power-operated ice-cream. C. A. Hager, jr. 1,751,813; Mar. 25.
Frequency and speed control. F. Wunsch. 1,751,539; Mar. 25.
Frequency changing method and means. C. V. Logwood. 1,751,485; Mar. 25.
Frequency or speed measurement and control, System of. F. Wunsch. 1,751,538; Mar. 25.
Fuel, Apparatus for the manufacture of smokeless. C. Vieu and L. Mourgeon. 1,752,044; Mar. 25.
Fuel to an internal-combustion engine of the high-compression type, Feeding. W. G. Gernandt. 1,751,989; Mar. 25.
Furnace: *See*—
Electric furnace. Hot-air furnace.
Electric induction furnace.
Furnace. C. J. Huber. 1,751,861; Mar. 25.
Furnace. R. S. McNaney. 1,751,829; Mar. 25.
Furnace process, Electric induction-. A. E. Greene. 1,751,856; Mar. 25.
Furnace roof, Removable. L. S. Abbott. 1,751,675; Mar. 25.
Furnaces, Regulation of combustion of gases in. A. Steinbart. 1,751,893–4; Mar. 25.
Furniture. M. Thum. 1,751,897; Mar. 25.
Fuse. A. G. Steinmayer. 1,751,954; Mar. 25.
Fuse, Combination. H. M. Brayton. 1,751,616; Mar. 25.
Fuse, Mechanical time. P. Liebergeld. 1,752,188; Mar. 25.
Game. E. Brewer. 1,751,466; Mar. 25.
Game, Card. W. M. Morgan. 1,751,523; Mar. 25.
Game device. F. W. Hynes. 1,752,089; Mar. 25.
Garment. S. Labovitz. 1,752,186; Mar. 25.
Gas-analysis apparatus, Thermal-conductivity. J. C. Peters, jr. 1,751,715; Mar. 25.
Gas, Apparatus for the manufacture of illuminating. D. J. Young. 1,751,784; Mar. 25.
Gas apparatus, Water-. F. W. Steere. 1,751,497; Mar. 25.
Gas-making process. D. J. Young. 1,751,849; Mar. 25.
Gas, Making uncarbureted water. D. J. Young. 1,751,502; Mar. 25.
Gas manufacture. F. W. Steere. 1,752,035; Mar. 25.
Gas manufacture. F. W. Steere. 1,752,037; Mar. 25.
Gas manufacture. F. W. Steere. 1,752,278; Mar. 25.
Gas manufacture. D. J. Young. 1,751,503; Mar. 25.
Gas manufacture, Water-. F. W. Steere. 1,752,036; Mar. 25.
Gas plants, Backrun method of operating. G. E. Whitwell. 1,752,223; Mar. 25.
Gas scrubber. W. A. S. Calder and W. H. Palmer. 1,752,260; Mar. 25.
Gas washer. F. H. Wagner. 1,752,045; Mar. 25.
Gasoline, Apparatus for salvaging used cleaners'. W. S. Baylis. 1,751,613; Mar. 25.
Gate: *See*—
Stock gate.
Gauge: *See*—
Pop gauge. Radiator gauge.
Gauge for measuring the difference between two pressures. F. O. Hänni. 1,752,256; Mar. 25.
Gauge for paper-cutting machines. C. O. Thorne. 1,752,125–6; Mar. 25.
Gear and for analogous purposes, Actuating steering. S. D. Olsen. 1,752,022; Mar. 25.
Gear-grinding machine. A. J. and C. L. Ott. 1,751,753; Mar. 25.

Gear teeth, Method and apparatus for generating. O. G. Simmons. 1,752,033; Mar. 25.
Gearing for lathe heads, Change-speed. A. C. Getz. 1,752,249; Mar. 25.
Gearing, Generating worm. S. I. Cone. 1,751,540; Mar. 25.
Gearing, Intermittent. C. H. Brown. 1,751,791; Mar. 25.
Generator: *See*—
Pressure generator. Water-power generator.
Generator drive for railroad cars and the like. C. W. Dake. 1,751,621; Mar. 25.
Generator mounting and drive. T. S. Cole. 1,751,577; Mar. 25.
Glass and the like, Method and apparatus for melting. R. L. Frink. 1,751,987; Mar. 25.
Glass-handling apparatus. W. Owen. 1,751,712; Mar. 25.
Glove. W. M. Medaugh. 1,751,872; Mar. 25.
Glycols and ethylene hydrocarbons, Catalyst for the production of ethylene. A. T. Maximoff. 1,752,016; Mar. 25.
Goblet or similar article, Glass. E. J. Schaub. Des. 80,810; Mar. 25.
Grain drill. J. Schaeffer. 1,751,951; Mar. 25.
Grease gun. J. N. Saxton. 1,751,660; Mar. 25.
Grinders, Operating mechanism for valve. B. H. Peterson and N. F. McNaught. 1,751,657; Mar. 25.
Grinding mill. R. M. Hardgrove. 1,751,918; Mar. 25.
Guard. A. E. and A. Anderson. 1,752,221; Mar. 25.
Gum-stock trimmer. J. H. Davidson and R. S. Wade. 1,751,575; Mar. 25.
Guns and the like, Wad for whale. K. E. H. Bagberg. 1,752,243; Mar. 25.
Hair-drying device. R. Bishinger. 1,751,573; Mar. 25.
Hair, Means for retaining bobbed. F. O'Neal. 1,751,596; Mar. 25.
Halogen substitution products of olifines, Production of. C. O. Young. 1,752,049; Mar. 25.
Hammer, Drop. H. Beché. 1,752,141; Mar. 25.
Hand bag. J. N. Lowe. 1,751,986; Mar. 25.
Hangar equipment. C. Bellmann. 1,751,721; Mar. 25.
Hanger: *See*—
Shade hanger.
Harness-control mechanism for pattern weaving. J. O. Corn. 1,752,237; Mar. 25.
Harrow teeth. B. B. Perkins. 1,751,493; Mar. 25.
Harvesting apparatus, Corn-. J. Webb. 1,752,216; Mar. 25.
Harvesting device, Ice-. G. B. Bright. 1,751,617; Mar. 25.
Hat. D. Cash. Des. 80,778; Mar. 25.
Headlight. H. G. Lewis. 1,752,273; Mar. 25.
Headlights, Dimmer device for. S. J. Graslewicz. 1,751,582; Mar. 25.
Heat exchanger. W. M. Cross. 1,751,725; Mar. 25.
Heat exchanger. W. B. Phillips. 1,751,757; Mar. 25.
Heat-insulating apparatus and method, Refrigerative. J. W. Martin, jr. 1,752,277; Mar. 25.
Heater: *See*—
Automobile heater. Oil heater.
Electric heater.
Heater for crank cases, Oil. C. W. and R. L. Nelson. 1,751,859; Mar. 25.
Heaters, Attachment for gas. C. L. Kline. 1,752,007; Mar. 25.
Heating apparatus, Automobile. S. Ceglowski. 1,752,148; Mar. 25.
Heating coils, Brazing. A. T. Lewis and D. E. French. 1,751,865; Mar. 25.
Heating device. A. R. Gould. 1,751,581; Mar. 25.
Heating-element arrangement for mixing bowls. E. Schmierer. 1,751,605; Mar. 25.
Heating element for electric stoves. C. M. Dibble. 1,751,797; Mar. 25.
Holder and ash tray or the like article, Combination cigarette. A. von Frankenberg. Des. 80,816; Mar. 25.
Holder and guide, Adjustable shade. J. M. Hause. 1,751,814; Mar. 25.
Holder and the like, Card. S. Oransky. 1,751,656; Mar. 25.
Holder, Bobbin. P. J. Thomas. 1,751,566; Mar. 25.
Holder, Dish. H. Carew. Des. 80,776; Mar. 25.
Holder, Display. L. Flier. 1,752,246; Mar. 25.
Holder especially for knitting machines for mending knitted, woven, or similar articles, Work. D. Torgersen. 1,751,956; Mar. 25.
Holder, Film. A. N. Merle. 1,751,593; Mar. 25.
Holder for electric tools, Brush. J. N. Baker. 1,751,462; Mar. 25.
Holder for eyeglasses, Extension. W. Fischer. 1,751,804; Mar. 25.
Holder, License-card. M. A. Suarez. 1,751,666; Mar. 25.
Holder, License-plate. F. E. Radabaugh. 1,751,947; Mar. 25.
Holder, Mop. J. H. Gillis. 1,752,250; Mar. 25.
Holder, Screed. S. C. Awbrey. 1,751,785; Mar. 25.
Holder, Shade. J. B. Bander. 1,752,067; Mar. 25.
Holder, Shirt and trousers. S. B. Weinstein. 1,752,217; Mar. 25.
Holder, Stocking and sock. O. Adam. 1,752,219; Mar. 25.
Holder, Ticket. M. MacDonald. 1,751,744; Mar. 25.
Holder, Ticket. M. MacDonald. 1,751,825; Mar. 25.
Holding device, Pen-. G. Buck. Des. 80,775; Mar. 25.
Hot-air furnace. H. K. Flowers. 1,752,168; Mar. 25.
Hot-water heater. H. J. Long. Des. 80,799; Mar. 25.
House and pen, Hog. O. Miller. 1,751,834; Mar. 25.
Hydraulic apparatus. H. B. Taylor. 1,751,667; Mar. 25.
Hydrocarbon burner. H. L. Maxfield and W. E. Mikkelson. 1,751,555; Mar. 25.
Hydrocarbon mixtures for combustion, Apparatus for preparing. R. G. Ford. 1,752,165–7; Mar. 25.
Hydrocarbons, Apparatus for treating. G. Egloff and H. P. Benner. 1,751,729; Mar. 25.
Hydrogen, Apparatus for the production of. F. E. Lefebvre, F. E. 1,752,187; Mar. 25.
I-beam clamp. W. G. Wehr. Re17,629; Mar. 25.
Indicator: *See*—
Direction indicator.
Indicator. J. B. Thieler. 1,752,122; Mar. 25.
Induction motor. H. Lund. 1,752,097; Mar. 25.
Infusions of coffee, tea, or the like, Method of and apparatus for making. P. Greenwald. 1,751,477; Mar. 25.
Insulating joint. S. D. Sprong. 1,751,665; Mar. 25.
Insulation electrical apparatus. A. Meissner. 1,751,939; Mar. 25.
Insulator. J. B. Marshall. 1,751,827; Mar. 25.
Insulator bushing joint. A. O. Austin. 1,752,281; Mar. 25.
Insulator, Electric. H. A. Ewen. 1,751,580; Mar. 25.
Internal-combustion engine. H. J. Fisher. 1,751,625; Mar. 25.
Internal-combustion engine. C. B. Hardman. 1,751,919; Mar. 25.
Internal-combustion engine. E. Herkt. 1,752,082; Mar. 25.
Internal-combustion engine. O. C. Kreis. 1,752,009; Mar. 25.
Internal-combustion engine. C. Schaer. 1,752,031; Mar. 25.
Ironing board and breakfast table, Combination. A. Bragg. 1,752,226; Mar. 25.
Ironing roll. G. A. Munford. 1,751,876; Mar. 25.
Irrigating device. F. L. Lindhorst. 1,751,640; Mar. 25.
Jack: *See*—
Pumping jack. Screw jack.
Jar-cover remover and fastener. J. Lotz. 1,752,189; Mar. 25.
Jar-down spear. A. F. Brown. 1,751,790; Mar. 25.
Jar or similar container. J. A. Carr. Des. 80,777; Mar. 25.
Joint: *See*—
Insulating joint. Insulator-bushing joint.
Joints, Method and apparatus for making. J. Cunningham. 1,751,510; Mar. 25.
Juice extractor and strainer, Fruit-. C. S. Glenny. 1,751,627; Mar. 25.
Knife, Channeling. W. S. Shaft. 1,752,113; Mar. 25.
Knife, Shingle-cutting. D. Stinger. 1,751,563; Mar. 25.
Knitting machine. F. J. Moloney. 1,751,940; Mar. 25.
Knitting machines, Attachment for flat. R. E. Schletter. 1,752,206; Mar. 25.
Knitting machines clean, Keeping. O. Seifert. 1,752,207; Mar. 25.
Lamp, Arc health. M. W. McArdle. Des. 80,801; Mar. 25.
Lamp for automobiles, Side. H. H. Oetjen. 1,751,751; Mar. 25.
Lamp, Portable electric. H. F. Thurber and F. E. Greene. Des. 80,814; Mar. 25.
Lamp tester. W. F. Hayes. 1,751,860; Mar. 25.
Latch, Window. L. Dugovic. 1,752,242; Mar. 25.
Lathe center, Revolving. H. R. Ong. 1,751,711; Mar. 25.
Lawn sprinkler, Disappearing. C. A. Borgeson. 1,751,723; Mar. 25.
Leather goods, Ornamental. J. J. Walsh. 1,751,962; Mar. 25.
Leather, Manufacturing. W. A. Beck. 1,751,464; Mar. 25.
Leather, Manufacturing. J. P. Toole. 1,752,042; Mar. 25.
Ledger sheet and card flag, Adjustable. G. S. Robinson. 1,751,495; Mar. 25.
Level, Spirit. C. D. Severance and R. O. Stetson. 1,752,112; Mar. 25.
Leverage engine, Fluctuating. F. L. Eager. 1,751,474; Mar. 25.
Lifeboat. C. C. Clifford. 1,752,063; Mar. 25.
Light fixture. S. Kramer. Des. 80,794; Mar. 25.
Light fixture having removable panels. A. Kramer. 1,751,864; Mar. 25.
Light switch, Delayed circuit-breaking. C. B. Johnson. 1,752,091; Mar. 25.
Lighting fixture. C. J. Lemont. 1,751,483; Mar. 25.
Lighting-fixture head. J. H. Blitzer. Des. 80,772; Mar. 25.
Liquid-fuel burner. W. O. Horne. 1,752,000; Mar. 25.
Liquid-supply system. G. Dean and H. Ainsley. 1,752,261; Mar. 25.
Loading and unloading method, Car. R. T. Romine. 1,751,717; Mar. 25.
Lock: *See*—
Wheel-rim lock.
Lock means, Automobile. K. A. Brauning. 1,752,282; Mar. 25.
Locking device for closet and lavatory doors. R. O. Krasselt. 1,751,821; Mar. 25.
Locomotive grid screening. H. E. Gillette. 1,751,515; Mar. 25.
Log grab, Lumberman's. C. L. Button. 1,751,905; Mar. 25.
Loom for making real knotted carpets, Automatic. M. Bányai. 1,752,140; Mar. 25.
Looms, Stopping mechanism for. W. Crutchlow. 1,751,979; Mar. 25.

Lubricating apparatus. C. G. Butler. 1,752,270; Mar. 25.
Lubricating device. J. W. T. Elliot. 1,751,687; Mar. 25.
Lubrication of axles and the like. P. G. Graham. 1,751,695; Mar. 25.
Lubricator: *See*—
Flange lubricator.
Lubricator. W. M. Gentle. 1,751,693; Mar. 25.
Machine-control mechanism, Automatic. F. Schaum. 1,751,532; Mar. 25.
Machine for aerial navigation. B. F. Seymour. 1,751,890; Mar. 25.
Machine for cutting and wrapping material. E. C. Hegg. 1,751,585; Mar. 25.
Machine for cutting sheet material. E. E. Winkley. 1,751,568; Mar. 25.
Machine for operating upon blanks of sheet material. E. Hope and A. E. Richards. 1,751,549; Mar. 25.
Machine for the mixing, aerating, and like treatment of various materials. L. S. Harber and J. E. Pointon. 1,751,548; Mar. 25.
Magnetic testing device. F. H. Ohland. 1,751,710; Mar. 25.
Manifolds, Air and vapor supply device for intake. G. W. Stultz. 1,751,760; Mar. 25.
Manure-spreader body. E. C. Smith. 1,751,561; Mar. 25.
Marking machine. A. W. Altvater. 1,751,467; Mar. 25.
Measuring device, Dentist's. W. P. Millar. 1,751,833; Mar. 25.
Meat tenderer. E. Guggenheim and H. W. Spellman. 1,751,628; Mar. 25.
Mechanical movement. H. W. Nieman. 1,751,646; Mar. 25.
Mercury switch. P. K. Cramblet. 1,751,544; Mar. 25.
Metal, Method and apparatus for casting. E. S. Sawtelle. 1,752,280; Mar. 25.
Metallic strap, Flexible. W. Forstner. 1,751,475; Mar. 25.
Metals, Apparatus for reducing oxides of. J. W. Hornsey. 1,751,736; Mar. 25.
Metals, Protection of. S. Z. de Ferranti. 1,752,239; Mar. 25.
Meter: *See*—
Watt-hour meter.
Meter-testing apparatus. J. T. Lucas. 1,751,554; Mar. 25.
Mill: *See*—
Grinding mill.
Mineral silicates, Separating the constituents of. S. W. Scofield and J. B. La Rue. 1,751,663; Mar. 25.
Mirror, Nonglare front view. F. L. O. Wadsworth. 1,751,567; Mar. 25.
Mold: *See*—
Cast-iron mold. Typographic mold.
Splicing mold.
Mold. E. H. Traut. 1,752,040; Mar. 25.
Mold for curing hollow molded articles. T. L. Fawick. 1,751,803; Mar. 25.
Molding operations, Tamping device for use in. F. Breeden. 1,751,465; Mar. 25.
Molds, Mechanism for forming and handling. E. Harmes. 1,752,175; Mar. 25.
Motor: *See*—
Electric motor. Spring motor.
Induction motor.
Motor-control system, Electric. H. V. James. 1,752,179; Mar. 25.
Motor with variable reactance, Induction. T. G. Myers. 1,752,104; Mar. 25.
Mounting for doll eye sets. S. Marcus. 1,752,274; Mar. 25.
Multirecord controller. C. H. Green. 1,752,171; Mar. 25.
Musical instrument, Stringed. L. C. Johnson. 1,752,180; Mar. 25.
Musical instruments, Starting and selecting mechanism for automatic. C. H. Green. 1,752,170; Mar. 25.
Nail, Weatherproof. G. E. Dickson. 1,751,709–800; Mar. 25.
Needle, Crochet. C. I. Denner. 1,751,796; Mar. 25.
Needle, Knitting. G. C. Egly. 1,752,155; Mar. 25.
Nozzle. W. C. Uhri, jr. 1,751,719; Mar. 25.
Nozzle attachment, Shower. H. J. Moss. 1,751,524; Mar. 25.
Nozzle, Fire. J. O'Hanlon. 1,752,193; Mar. 25.
Nozzle restrictor, Locomotive. J. Knudson. 1,751,820; Mar. 25.
Nozzle, Strainer. O. W. Johnson. 1,751,638; Mar. 25.
Odometer drive. J. B. Mills and F. O. Gray. 1,752,019; Mar. 25.
Oil and gas separator. M. F. Waters. 1,752,215; Mar. 25.
Oil, Apparatus for cracking. G. Egloff and H. P. Benner. 1,751,730; Mar. 25.
Oil burner, Automatically-controlled. L. I. Aldrich. 1,752,053; Mar. 25.
Oil burner, Fuel-. J. E. Hackford. 1,752,173; Mar. 25.
Oil can, Flexible. J. M. Hinkle. 1,752,085; Mar. 25.
Oil-change indicator for motor vehicles. W. E. Oshel. Des. 80,800; Mar. 25.
Oil-cracking process. J. B. Jaqua. 1,752,004; Mar. 25.
Oil heater. C. W. and R. L. Nelson. 1,751,857; Mar. 25.
Oil heater. R. L. and C. W. Nelson. 1,751,858; Mar. 25.
Oil heater. H. Taylor. 1,751,533; Mar. 25.
Oil, Reclaiming. D. C. Cox. 1,752,238; Mar. 25.
Oil, Treating hydrocarbon. G. Egloff. 1,751,731; Mar. 25.
Oiler, Air-line. A. E. Peters. 1,751,714; Mar. 25.
Oils, Process and apparatus for treating and purifying hydrocarbon. L. C. Huff. 1,751,862; Mar. 25.
Oils, Regeneration or purification of lubricating. H. J. Young. 1,752,050; Mar. 25.
Ornamenting surfaces. D. M. Flournoy and P. D. George. 1,752,164; Mar. 25.
Ortho-anisidine and similar aminophenol ethers, Manufacture of. J. Tcherniac. 1,752,121; Mar. 25.
Oven. E. O. Engels. 1,752,158; Mar. 25.
Oxychloride cement, Preparing an. J. U. A. Ohlsen. 1,752,194; Mar. 25.
Packing, Machine for manufacturing metallic. L. A. Sliter. 1,752,115; Mar. 25.
Packing retainer. L. P. Moore. 1,751,837; Mar. 25.
Pan: *See*—
Compartment pan.
Paper, Apparatus for manufacturing. T. Harvey. 1,752,079; Mar. 25.
Paper cutter. C. O. Thorne. 1,752,124; Mar. 25.
Paper machines, Flow box for. E. J. Trimbey and G. K. Walker. 1,751,959; Mar. 25.
Pen gun, Fountain-. F. L. Huguenin. 1,752,178; Mar. 25.
Penholder, Finger. F. H. MacDonald. 1,751,704; Mar. 25.
Pen, lever filler, Fountain. E. C. Fransmann. 1,751,855; Mar. 25.
Pharmaceutical compound and making same. W. T. Winckler. 1,751,964; Mar. 25.
Photographic chemical process and material. O. A. Hall. 1,752,174; Mar. 25.
Photographic lens shutter. A. Gauthier. 1,751,808; Mar. 25.
Photographic resist and photographic etching. A. B. Davis. 1,751,909; Mar. 25.
Photographs, Making colored. G. N. Pifer. 1,751,881; Mar. 25.
Pianoforte. R. H. Collen. 1,752,234; Mar. 25.
Picture transmission. C. W. Hansell. 1,751,584; Mar. 25.
Picture-transmission system. F. Schröter. 1,751,606; Mar. 25.
Pictures, Treating. T. L. Latter. 1,752,011; Mar. 25.
Pike construction. E. C. Leach. 1,752,013; Mar. 25.
Pillar, Built-up partition. I. H. Morrison. 1,752,108; Mar. 25.
Pipes, Apparatus for bending small. E. A. Rock. 1,751,886; Mar. 25.
Piston-boss reamer. W. A. Neller. 1,751,708; Mar. 25.
Pitman rod, Adjustable. C. A. Ritchie. 1,752,028; Mar. 25.
Planters, Attachment for. C. C. Lutz. 1,751,486; Mar. 25.
Planters, Attachment for. C. C. Lutz. 1,751,590; Mar. 25.
Plaster-board manufacture. C. Spengler. 1,751,953; Mar. 25.
Plaster, Cedar. E. D. Coddington, E. A. Kerler, R. R. Black, and H. S. Owen. 1,752,232; Mar. 25.
Plastic composition, Waterproof fire-resistant. C. R. Faben. 1,751,690; Mar. 25.
Plastic material into molds, Changing. S. Du Brul. 1,751,624; Mar. 25.
Plate. G. Ellis. Des. 80,783; Mar. 25.
Plug, Contact. H. De Jong, D. Lely, jr., and R. Shepherd. 1,751,981; Mar. 25.
Pocketbook. L. Flaxman. Des. 80,784; Mar. 25.
Polishing head. P. S. Legge. 1,751,930; Mar. 25.
Pop gauge. C. J. Manuel. 1,751,867; Mar. 25.
Post: *See*—
Balustrade post.
Power-converting apparatus. C. A. Sabbah. 1,752,205; Mar. 25.
Power plant. J. M. A. Golnard. 1,752,253; Mar. 25.
Power plant. H. F. Schmidt. 1,751,604; Mar. 25.
Power transmission. B. M. Coffee. 1,751,576; Mar. 25.
Power transmission and distribution, System of. E. W. Seeger. 1,752,032; Mar. 25.
Power-transmission mechanism. H. W. Nieman. 1,751,650; Mar. 25.
Press: *See*—
Drill press.
Press. R. T. Anderson. 1,752,054; Mar. 25.
Press. R. T. Anderson. 1,752,222; Mar. 25.
Pressure-controlling device, Dual fluid-. J. F. Hixon. 1,752,087; Mar. 25.
Pressure generator, Fluid-. E. H. Aiken. 1,752,052; Mar. 25.
Pressure recorder, Deep-well. J. N. Hicks. 1,751,632; Mar. 25.
Printing and stenciling devices, Vise attachment for. O. Halvorsen and S. F. Kiesling. 1,752,255; Mar. 25.
Projector, Continuous. R. M. Like. 1,751,702; Mar. 25.
Prop, Mining. H. Meutsch. 1,752,101; Mar. 25.
Propeller, Device for driving and controlling a fin-shaped. W. Meindersma. 1,752,100; Mar. 25.
Puller: *See*—
Cork puller. Terminal puller.
Staple puller.
Pulverizing machine. W. J. Armstrong. 1,751,611; Mar. 25.
Pump. L. P. Kalb. 1,752,006; Mar. 25.
Pump. D. D. Long. 1,751,703; Mar. 25.
Pump barrel. E. E. Greve. 1,751,914; Mar. 25.

Pump for flange lubricators. E. C. Howerton and A. Bergiin. 1,751,636; Mar. 25.
Pump for internal-combustion engines, Electrically-operated fuel. W. C. Carter. 1,751,975; Mar. 25.
Pump, Gasoline-dispensing. W. F. Perez. 1,751,880; Mar. 25.
Pump, Internal-combustion. E. W. MacKay-White. 1,752,130; Mar. 25.
Pump, Power-driven. H. G. Holmes. 1,751,634; Mar. 25.
Pumping apparatus. J. B. Sperry. 1,751,767; Mar. 25.
Pumping jack, Long-stroke. L. G. Burt. 1,752,144; Mar. 25.
Puzzle, Educational. J. E. Fransen. 1,752,248; Mar. 25.
Rack. B. H. Newcomer. 1,751,878; Mar. 25.
Radiator. W. G. Collins. 1,752,235; Mar. 25.
Radiator cores and the like, Automatic mechanism for forming. V. Habif. 1,752,077; Mar. 25.
Radiator gauge. J. J. Wilt. 1,751,847; Mar. 25.
Radiators, Dust-eliminating air duct for. J. S. Jacobsen. 1,751,739; Mar. 25.
Radio apparatus. R. C. Da Costa. 1,751,854; Mar. 25.
Radio apparatus. R. E. Patrie. 1,752,196; Mar. 25.
Radio receiving apparatus. B. B. Minnium. 1,751,706; Mar. 25.
Rail, Car-retarding. C. E. Fehringer and V. M. Lane. 1,752,162; Mar. 25.
Railroad-track structure. W. Dalton. 1,752,151–2; Mar. 25.
Razor and blade, Safety. O. Goetzke. 1,751,476; Mar. 25.
Receptacle. C. E. Carter. 1,752,146; Mar. 25.
Receptacle-filling machine. R. W. McIntyre. 1,751,487; Mar. 25.
Receptacle, Match. J. C. Polster. 1,752,108; Mar. 25.
Receptacle, Multiple-plug. H. Birchall. 1,752,220; Mar. 25.
Recorder: *See*—
Pressure recorder.
Recording instrument. E. H. Bristol. 1,752,059; Mar. 25.
Reel for electric conductors. A. E. F. Moone. 1,751,836; Mar. 25.
Reflector. S. A. Eskilson. 1,751,984; Mar. 25.
Reflector, Antiglare. R. Linton and W. J. Jarvis. 1,751,934; Mar. 25.
Refrigerating apparatus. H. B. Hull. 1,751,697; Mar. 25.
Refrigerating apparatus. A. M. Thomson. 1,751,499; Mar. 25.
Refrigerating apparatus and method. J. W. Martin, jr. 1,752,015; Mar. 25.
Refrigerating apparatus and method. J. W. Martin, jr. 1,752,276; Mar. 25.
Register: *See*—
Autographic register.
Regulator: *See*—
Tension regulator. Window regulator.
Regulator for air-service apparatus, Pressure. A. M. Baird. 1,751,970; Mar. 25.
Regulator for hot-air furnaces. F. C. Noll. 1,751,944; Mar. 25.
Regulator for windows and doors. E. Sodergren. 1,751,718; Mar. 25.
Relay system, Switching. R. T. Cloud. 1,751,978; Mar. 25.
Resin from the semifluid resinous matter extracted from crude gutta percha and/or balata, Manufacture of a solid. A. B. Craven. 1,751,724; Mar. 25.
Retarding device for persons escaping from submerged vessel. E. A. Taylor. 1,751,896; Mar. 25.
Ring. J. Granat. Des. 80,787–8; Mar. 25.
Ring joints, Device for making. W. L. Evans. Re17,628; Mar. 25.
Ring shank. J. Granat. Des. 80,786; Mar. 25.
Rod: *See*—
Fishing rod. Pitman rod.
Rod or tubing guide. S. Y. Dillon. 1,752,154; Mar. 25.
Roller: *See*—
Ball-bearing roller.
Roofing felt, Apparatus for impregnating. C. R. Sculley. 1,751,889; Mar. 25.
Rope clamp. H. P. Reiber. 1,751,883; Mar. 25.
Ronting machine. S. Hunter. 1,751,816; Mar. 25.
Rubber composition and producing the same. H. A. Winkelmann. 1,751,848; Mar. 25.
Rubber derivative and making same. W. N. Jones and H. A. Winkelmann. 1,751,817; Mar. 25.
Rubber, Ornamenting sheet. A. A. Glidden and F. D. Bean. 1,751,546; Mar. 25.
Safety signal, Automatic railway. F. Smitt. 1,751,845; Mar. 25.
Salts of alkaline earth metals. F. Lindner. 1,751,932; Mar. 25.
Sand separator. K. A. Enz and D. J. McCormack. 1,751,689; Mar. 25.
Sash plug. E. D. Barringer. 1,751,679; Mar. 25.
Scraping machine, Power. A. H. Endorf. 1,752,156; Mar. 25.
Screen: *See*—
Foldable screen.
Screw jack, Multiple-lift. I. Von Kert Hott. 1,751,738; Mar. 25.
Sea tub. J. C. Moray. 1,752,191; Mar. 25.
Seal. S. J. Moskovits. 1,751,839; Mar. 25.
Sealing chamber, Vacuum. A. K. Malmquist. 1,751,643; Mar. 25.
Seat: *See*—
Adjustable seat. Valve seat.
Seat end construction, Chair-. G. H. Hamilton. 1,752,078; Mar. 25.
Selector. R. Helmert and B. Johannesson. 1,751,815; Mar. 25.
Self-thawing trap. H. D. Gregory. 1,751,583; Mar. 25.
Sensitized coating and making and applying same and photographic plate or film produced thereby. E. De Stubner. 1,752,069; Mar. 25.
Separator: *See*—
Oil and gas separator. Sand separator.
Servo mechanism. H. W. Nieman. 1,751,645; Mar. 25.
Servo mechanism. H. W. Nieman. 1,751,647–8; Mar. 25.
Sewing machine. N. V. Christensen and F. F. Zeier. 1,751,508; Mar. 25.
Sewing-machine ruffler. H. A. Lawton and A. J. Carmichael. 1,752,096; Mar. 25.
Sewing machines, Control mechanism for. D. Beswick. 1,752,142; Mar. 25.
Sewing machines, Controlling device for electric. H. M. Stephenson. 1,752,212; Mar. 25.
Shade hanger. V. C. Hansen. 1,751,517; Mar. 25.
Shade-operating means. J. H. Hicinbothem. 1,751,735; Mar. 25.
Shaft coupling, Torque-cushioning. E. Sandner. 1,751,496; Mar. 25.
Shingle stripper. D. Stinger. 1,751,562; Mar. 25.
Shingles, Method of and apparatus for making strip. F. C. Overbury. 1,751,945; Mar. 25.
Ship, Tank. R. Paulsen. 1,751,756; Mar. 25.
Shirt cuff sleeve. A. Menzin. 1,751,832; Mar. 25.
Shirt, Health suspender. H. W. Laird. 1,751,701; Mar. 25.
Shock absorber. G. H. E. de Ram. 1,752,240; Mar. 25.
Shock absorber. B. B. Holmes. 1,751,479; Mar. 25.
Shock absorber, Hydraulic. E. E. Foster. 1,752,072; Mar. 25.
Shock diffuser, Hydraulic. L. S. Heth. 1,751,696; Mar. 25.
Shoe. J. F. Gilkerson. 1,751,990; Mar. 25.
Shoe and insole. P. F. W. C. Krippendorf. 1,751,742; Mar. 25.
Shoe, Baby's. K. Schaffner. Des. 80,809; Mar. 25.
Shoe, Cushion. J. F. Gilkerson. 1,751,991; Mar. 25.
Shoes, Facilitating the fitting of. V. G. Gosnell. 1,752,254; Mar. 25.
Shoes, Making box toes for. J. J. Daly. 1,751,545; Mar. 25.
Shoes, Rubber tread for. C. Roberts. 1,751,557; Mar. 25.
Shopping bag, Paper. W. H. Deubener. 1,751,473; Mar. 25.
Shopping bag, Wheeled. L. A. Brown. 1,751,902; Mar. 25.
Sieve, Food. H. L. Wirt. 1,752,047; Mar. 25.
Sifter, Ash. G. G. Donnelly. 1,751,541; Mar. 25.
Sign and traffic signal, Street. E. J. Stone. 1,751,564; Mar. 25.
Sign, Changeable. C. A. Giroux. 1,752,251; Mar. 25.
Sign-removal process, Poster-. W. R. Bell. 1,751,469; Mar. 25.
Signal: *See*—
Automobile signal. Telephone-receiver signal.
Safety signal.
Signaling system, Hospital. B. L. Bobroff. 1,751,972; Mar. 25.
Silica, Manufacture of active. F. Stoewener. 1,751,955; Mar. 25.
Silicon in ferrophosphorus, Elimination of. H. E. White. 1,751,783; Mar. 25.
Skate, Ice. G. Frühbeis. 1,751,692; Mar. 25.
Skate, Roller. R. Nanz. 1,751,942; Mar. 25.
Skylight. L. Jagur. 1,752,002; Mar. 25.
Slicing and grinding machine. O. Erl. 1,752,160; Mar. 25.
Slicing machine. S. A. Westdahl. 1,751,672; Mar. 25.
Slide, seesaw, and jumping board, Combination. M. Remy. 1,752,110; Mar. 25.
Slider for interlocking fasteners. E. W. Rutherford. 1,752,111; Mar. 25.
Slitting machines, Making backing member for. J. A. Cameron. 1,752,061; Mar. 25.
Snowplow for engines. L. Kudzia. 1,751,822; Mar. 25.
Socket, Jar-rein. F. J. Hinderliter. 1,751,997; Mar. 25.
Sodium sulphate deposits, Working natural. G. F. Andersen. 1,751,901; Mar. 25.
Soil-tilling device. H. H. Glasier. 1,751,694; Mar. 25.
Soil-working combine. C. F. Rose. 1,751,887; Mar. 25.
Soldering machine, Electric. J. Cunningham. 1,751,509; Mar. 25.
Soluble substances in a coarse granular condition, Separately recovering. F. Jeremiassen. 1,751,740; Mar. 25.
Sound-emitting device. S. Ruben. 1,751,888; Mar. 25.
Sound reproducer for phonographs. F. B. Reed. 1,752,201; Mar. 25.
Spanner wrench. G. R. Gagné. 1,752,074; Mar. 25.
Spark plugs, Manufacturing. A. B. Schupp. 1,751,662; Mar. 25.
Spectacle frame. J. Gaspari. Des. 80,785; Mar. 25.
Splicing mold. R. B. Guilbault. 1,751,811; Mar. 25.
Spoon or similar article. W. S. Warren. Des. 80,817–8; Mar. 25.
Spotlamp for automobiles and the like. R. H. Hummert. 1,751,863; Mar. 25.
Spray gun, Paint and lacquer. F. A. Tittemore and C. S. Renwick. 1,751,808; Mar. 25.

Sprayers, Motor-operating attachment for liquid. F. F., R. H., and J. R. Nielsen. 1,751,709; Mar. 25.
Spraying appliance, Flat-. H. D. Binks. 1,751,787; Mar. 25.
Spraying of liquids. E. P. De Zan. 1,752,153; Mar. 25.
Spring: *See*—
Truck spring.
Spring-driven devices, Winding up of. N. G. Johnson. 1,752,181; Mar. 25.
Spring-metal reenforcing member, Internal. V. Karbowski. 1,751,741; Mar. 25.
Spring motor, Electrically-wound. J. B. Browning. 1,751,903–4; Mar. 25.
Spring shackle. H. G. Trench. 1,752,284; Mar. 25.
Sprinkler: *See*—
Automatic sprinkler.
Lawn sprinkler.
Water sprinkler.
Stadium chair. J. M. Shelton. 1,752,208; Mar. 25.
Stamping machine. C. De Young. 1,751,578; Mar. 25.
Stanchion. R. J. Langer. 1,752,095; Mar. 25.
Stand: *See*—
Display stand.
Staple puller. H. Reich. 1,751,948; Mar. 25.
Starter, battery recharger, and engine supercharger, Combined electric. V. C. Apple. 1,752,224; Mar. 25.
Steam cleaner. A. Clarkson. 1,752,231; Mar. 25.
Stereoscopic apparatus. W. P. Reaves. 1,751,530; Mar. 25.
Stock gate. W. P. Thatch. 1,751,669; Mar. 25.
Stoneworking machine. P. S. Legge. 1,751,931; Mar. 25.
Stop signal. V. Altman. 1,751,969; Mar. 25.
Storage-battery carrier. W. A. Bishman. 1,752,143; Mar. 25.
Storage tank. J. F. Patterson. 1,752,197; Mar. 25.
Strap: *See*—
Metallic strap.
Street parking space, Regulating the use of. C. C. Doyle. 1,752,071; Mar. 25.
Structural material. T. H. Kane. 1,751,923; Mar. 25.
Stuffing box. A. E. Thornley. 1,752,279; Mar. 25.
Suit, Life-saving. W. A. Taylor. 1,752,120; Mar. 25.
Support, Fire-extinguisher. W. B. Bronander. 1,751,618; Mar. 25.
Support, Golf-bag. G. F. Shaw. 1,752,114; Mar. 25.
Support, Movable camera. W. L. Trullinger. 1,751,774; Mar. 25.
Swimming appliance. P. J. Young. 1,752,051; Mar. 25.
Switch: *See*—
Electric switch.
Light switch.
Mercury switch.
Tools switch.
Switch. J. R. Marshall. 1,751,826; Mar. 25.
Switch. E. D. Treanor. 1,752,213; Mar. 25.
Switch for toy electric railways, Electric. A. H. Gill. 1,751,992; Mar. 25.
Synchronous amplifying control mechanism. H. W. Nieman. 1,751,652; Mar. 25.
Syringe. J. W. Brunette. 1,751,507; Mar. 25.
Table: *See*—
Accounting table.
Collating table.
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Table. W. R. Thomson. 1,751,536; Mar. 25.
Tail skid for aircaft. G. Kell. 1,752,183; Mar. 25.
Tank: *See*—
Storage tank.
Tank for harvester thrashers, Grain. C. R. Raney and A. E. W. Johnson. 1,751,601; Mar. 25.
Target towing and releasing device. W. A. Lamkey. 1,752,010; Mar. 25.
Telegraph, Printing. G. S. Hiltz and W. F. Purcell. 1,752,084; Mar. 25.
Telephone-receiver signal, Automatic. A. L. Szwajkart. 1,752,211; Mar. 25.
Temperature detector. W. Smith. 1,752,117; Mar. 25.
Temperature indicator for hair-curling devices. A. E. Pausser. 1,752,198; Mar. 25.
Tension device for winding machines. D. Palin. 1,752,195; Mar. 25.
Tension regulator. L. B. Case. 1,752,147; Mar. 25.
Tent. A. P. MacLean. 1,751,518; Mar. 25.
Terminal puller. E. C. Stephens. 1,752,267; Mar. 25.
Theft-preventing device. J. Harrington. 1,751,629; Mar. 25.
Thermionic device. D. C. Wilkerson. 1,752,132; Mar. 25.
Thermostats, Making bimetallic strips for. F. W. Miller. 1,751,489; Mar. 25.
Tie. W. Weinschreider. 1,751,963; Mar. 25.
Tile-hanger bar, Composite. L. S. Abbott. 1,751,676; Mar. 25.
Time-recording apparatus. F. P. A. E. Delpech. 1,751,529; Mar. 25.
Tires, Apparatus for manufacturing. A. O. Abbott, jr. 1,752,136; Mar. 25.
Tone arm. J. A. Fischer. 1,752,245; Mar. 25.
Tongue extension. E. E. Koch. 1,751,700; Mar. 25.
Tool. T. F. Connors. 1,752,064; Mar. 25.
Tool, Combination tap and die fishing. F. J. Hinderliter. 1,751,998; Mar. 25.
Tool for form ties, Adjusting. H. H. Lampert. 1,751,823; Mar. 25.
Tool for hydraulic boring appliances, Expansible boring. M. A. Kapeluchnikoff. 1,752,092; Mar. 25.
Tool, Pipe bending. A. B. Allen. 1,752,220; Mar. 25.
Tool, Pneumatic cleaning. I. H. Spencer. 1,752,034; Mar. 25.
Tool, Tire-building. C. J. Mers. 1,751,873; Mar. 25.
Tool, Tube-facing. W. van Ee and A. H. Watson. 1,751,776; Mar. 25.
Tool, Well. A. F. Brown. 1,751,789; Mar. 25.
Tools switch, Motor-driven. T. C. Weiss. 1,751,781; Mar. 25.
Top, Set-off vehicle. W. F. Kasper and E. J. McKernan. 1,751,924; Mar. 25.
Torch apparatus and carton-sealing machine. J. L. Anderson. 1,752,139; Mar. 25.
Toy figure. B. B. Trosper. 1,751,773; Mar. 25.
Toy, Musical. H. A. Myers. 1,751,490–1; Mar. 25.
Toy pistol. C. F. Meyer, jr. 1,751,488; Mar. 25.
Track brake arrangement and control means therefor. G. Hannauer and R. M. Wilcox. 1,751,995; Mar. 25.
Tractors, Transmission mechanism for. G. W. Engstrom. 1,751,579; Mar. 25.
Trailer, Dump. A. P. and S. F. Armington. 1,752,056; Mar. 25.
Transmission mechanism. G. C. Carhart. 1,752,062; Mar. 25.
Transmission mechanism. F. A. Sweet. 1,751,770; Mar. 25.
Trap: *See*—
Animal trap.
Drain trap.
Self-thawing trap.
Tray and candle holder, Combination. D. Condon. Des. 80,779; Mar. 25.
Tray and emergency drinking cup, Handy ash. J. C. Backus and W. L. Pierotti. 1,751,463; Mar. 25.
Tray, Ash. M. Sussman. Des. 80,813; Mar. 25.
Tray attachment for smokers' and like stands. J. S. Kandel. 1,752,272; Mar. 25.
Treads for tires, Apparatus for manipulating rubber. J. B. Perrault and H. G. Ellis. 1,751,597; Mar. 25.
Trimmer: *See*—
Gum-stock trimmer.
Trousers support and attaching means. C. F. Perthel. 1,752,199; Mar. 25.
Truck spring, Railway-car-. C. Hankins. 1,751,917; Mar. 25.
Trucks, Sand spreader for. M. Lachner. 1,751,928; Mar. 25.
Trucks, Wheeled attachment for motor. W. R. McCulla. 1,751,871; Mar. 25.
Trussed structure. F. H. Moyer and C. A. Frahm. 1,751,747; Mar. 25.
Tub: *See*—
Sea tub.
Tuning units to dial controls, Attachment for connecting. S. A. Shapiro. 1,751,560; Mar. 25.
Turbine blades, Making. J. L. Ray. 1,751,758; Mar. 25.
Turbine blading. R. C. Allen. 1,751,570; Mar. 25.
Turbine support. J. L. Ray. 1,751,602; Mar. 25.
Typewriters and the like, Type head for. A. Rodrian. 1,751,761; Mar. 25.
Typewriting machine. L. C. Myers. 1,751,840; Mar. 25.
Typographical mold. H. J. Megley. 1,752,099; Mar. 25.
Umbrella attachment. T. P. Garankin. 1,751,514; Mar. 25.
Valve. G. E. McCloskey. 1,751,591; Mar. 25.
Valve. S. J. Nordstrom and J. C. Haun. 1,751,654; Mar. 25.
Valve, Combined vent and safety. V. P. Diederich. 1,751,684; Mar. 25.
Valve control for driving engines. F. E. and C. H. Holbrook. 1,751,920; Mar. 25.
Valve for air-brake systems, Engineer's brake. A. W. Nicholson. 1,751,943; Mar. 25.
Valve for internal-combustion engines, Rotary. H. C. Peterson and F. H. Russell. 1,751,528; Mar. 25.
Valve-mechanism housing. G. D. Angle. 1,752,055; Mar. 25.
Valve mechanism, Rotary. L. Flescher. 1,751,986; Mar. 25.
Valve seat. F. E. Smith. 1,751,664; Mar. 25.
Valve tappet, Cushioned. W. F. Porth. 1,751,716; Mar. 25.
Valves, Manufacture of sleeve. A. M. Niven. 1,752,021; Mar. 25.
Vehicle body construction. W. J. Hoskyns. 1,751,737; Mar. 25.
Vehicle body construction. W. Marshall. 1,751,828; Mar. 25.
Vehicle, Land and water. G. Raimondi. 1,752,200; Mar. 25.
Vehicle, Laterally-stable air. D. R. Davis. 1,751,622; Mar. 25.
Vehicle light. B. L. Bobroff. Des. 80,773; Mar. 25.
Vehicle, Steam motor. J. A. Harris. 1,751,734; Mar. 25.
Vending machine. J. H. Wolters. 1,751,674; Mar. 25.
Ventilating. W. L. Fleisher. 1,751,805; Mar. 25.
Ventilating apparatus for automobiles. F. C. Duerk. 1,751,686; Mar. 25.
Ventilating means for motor vehicles. D. C. Dozier. 1,751,910; Mar. 25.
Ventilating system. W. L. Fleisher. 1,751,806; Mar. 25.
Ventilator. H. R. Stuart. 1,751,768; Mar. 25.
Vibrator. S. E. Fouts. 1,751,626; Mar. 25.
Vulcanizing apparatus. R. Mayne. 1,751,869; Mar. 25.
Wall construction for bake ovens and the like. E. O. Engels. 1,752,159; Mar. 25.
Wall panel. E. T. Gray. Des. 80,789; Mar. 25.
Wall structure for bake ovens and the like. E. O. Engels. 1,752,157; Mar. 25.

Washer: *See*—
Gas washer.
Washing and drying machine. G. W. Dunham. 1,751,982; Mar. 25.
Washing machine. J. H. Joseph. 1,751,922; Mar. 25.
Watch bracelet. L. J. Vetter. 1,752,128; Mar. 25.
Watch-winding mechanism. H. W. Jelliffe. 1,751,698; Mar. 25.
Water-flow device. B. Veenstra. 1,751,960; Mar. 25.
Water-power generator. F. L. Gaede. 1,751,513; Mar. 25.
Water softener. G. E. Webb. 1,751,671; Mar. 25.
Water sprinkler. F. C. Orr. 1,751,879; Mar. 25.
Watt-hour meter, Induction. L. F. Kinnard. 1,752,094; Mar. 25.
Weather strip. L. C. Neilsen. 1,751,526; Mar. 25.
Weather-strip device, Self-adjusting interlocking. F. Reese. 1,751,759; Mar. 25.
Weather strip for casement sashes. H. E. White. 1,751,720; Mar. 25.
Weighing machine. W. H. Rees. 1,751,760; Mar. 25.
Weighing material during its motion through a conveyer, Device for. R. Uhlig. 1,751,898; Mar. 25.
Well drilling, Automatic control device for. R. Godet. 1,752,076; Mar. 25.
Well holes from the vertical, Apparatus for determining deviation of. H. J. Morgan. 1,751,594; Mar. 25.
Wheel: *See*—
Flexible wheel.
Wheel drive, Free-. A. F. Masury. 1,751,868; Mar. 25.
Wheel-rim lock. B. V. von Senden. 1,751,779; Mar. 25.
Window. H. B. Foresman. 1,752,271; Mar. 25.
Window cushion. F. A. Best. 1,751,786; Mar. 25.
Window guide. R. T. Griffiths. 1,751,733; Mar. 25.
Window regulator. B. J. Goldsmith, E. Koeb, and A. Briechle. 1,751,993; Mar. 25.
Window stop. G. A. Wilbur. 1,752,218; Mar. 25.
Wire stretcher. W. F. Robertson. 1,752,029; Mar. 25.
Wireless receiving set for compensating disturbances. S. Loewe. 1,751,588; Mar. 25.
Wood pulp and the like, Method of and apparatus for drying. R. D. Kehoe. 1,751,552; Mar. 25.
Wrench: *See*—
Spanner wrench.
Writing device. H. I. Morris. 1,751,941; Mar. 25.
Yeast, Manufacture of. K. A. Jacobsen. 1,752,003; Mar. 25.
Zinc from oxygen compounds of zinc or substances containing oxygen compounds of zinc, Making. C. F. von Girsewald and H. Neumark. 1,751,778; Mar. 25.

CLASSIFICATION OF PATENTS

ISSUED MARCH 25, 1930

NOTE.—First number—class, second number—subclass, third number—patent number.

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THE

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Issue of March 4, 1930

Trade-Marks	320	No. 267,781 to No.	268,100, inclusive.
T. M. Renewals	85		
Labels	22	No. 37,172 to No.	37,193, inclusive.
Prints	21	No. 12,403 to No.	12,423, inclusive.
Reissues	12	No. 17,608 to No.	17,619, inclusive.
Designs	70	No. 80,566 to No.	80,635, inclusive.
Patents	812	No. 1,748,937 to No.	1,749,748, inclusive.
Total	1,342		

International Convention

The following countries have adhered to the Convention of the Union for the Protection of Industrial Property as modified at The Hague, November 6, 1925:

Austria.
Belgium.
Brazil.
Canada.
Germany.
Great Britain (including Ceylon, New Zealand, Trinidad, and Tobago).
Hungary.
Italy.
Jugoslavia.
Mexico.
Switzerland.
Spain (including the Spanish zone of Morocco).
The Netherlands (including the Indian Netherlands and Surinam and Curaçao).
Portugal (including the Azores and Madeira).

List published in La Propriété Industrielle for January, 1930.

Adjudicated Patents

(D. C. N. Y.) Ornstein patent No. 1,142,361, for process of antisepticizing water, claims 4, 5, 6, 8, and 10 *Held* valid and infringed. *Wallace & Tiernan Co. v. City of Syracuse*, 36 F. (2d) 497.

(C. C. A. Ohio.) Torchio patent No. 1,172,322, for protective device for electric cable joints, claims 3 and 4 *Held* valid and infringed. *Metropolitan Device Corporation v. Cleveland Electric Illuminating Co.*, 36 F. (2d) 477.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,523,927, J. D. Beebe, Process and apparatus for making spiral tubing by electric welding, decided February 14, 1930, claim 1.

Pat. 1,550,769, S. B. Williams, Telephone-exchange system, decided January 24, 1930, claims 1, 2, 3, 5, 9, 11, 13, and 14.

Pat. 1,661,309, C. W. Saxe, Refractory muffle, decided February 12, 1930, claim 2.

Pat. 1,687,828, H. Chireix, Wireless telephone tube sending station, decided January 14, 1930, claims 1, 2, 5, 6, 7, 9, and 10.

Final decision in interference has been rendered against the following trade-mark:

T. M. 226,574, Lubricating oils and greases, Northwestern Petroleum Corporation, Appleton, Wis. Registered April 12, 1927. Decided January 18, 1930.

Trade-Mark Renewal Certificate Canceled

71,420. Hosiery. A. B. Andrews Company, New York, N. Y. Renewal certificate to Richmond Hosiery Mills, Rossville, Ga., issued June 26, 1928. Canceled February 18, 1930.

Condition of Applications Under Examination at Close of Business February 21, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,774; Trade-Mark Division, 1,425. Oldest new case, Apr. 22, 1929; oldest amended, Apr. 22, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.*	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	June 17	July 5	1,365
136	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	June 3	June 7	2,034
231	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	June 1	Aug. 31	1,597
224	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	July 20	July 15	1,289
105*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	May 25	May 27	1,614
316	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Apr. 22	Apr. 22	3,239
105	7. JARBOE, C. G., Optics; Photography	May 13	May 9	2,518
123	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	May 31	Aug. 13	1,571
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Aug. 2	Aug. 1	1,666
116	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	June 10	June 20	1,743
140*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Sept. 11	Sept. 28	942
260	12. PIERCE, P. P., Machine Elements	July 20	July 1	1,475
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	May 22	June 8	1,616
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	May 13	May 22	1,442
220	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	Apr. 29	Apr. 30	2,949
240*	16. SPENCER, C. J., Telegraphy; Telephony	June 3	July 19	1,251
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 2	May 31	1,655
220	18. PORTER, M. E., Motors, Expansible-Chamber Type: Power Plants; Speed-Responsive Devices	June 20	July 2	1,502
219	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	May 18	May 22	2,137
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	June 12	June 28	1,613
223	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 1	Sept. 7	890
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	June 24	July 24	1,655
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	May 2	May 8	1,227
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 3	May 14	1,291
308*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	May 29	May 29	1,601
225*	26. HODGES, J. S., Electricity, Generation; Motive Power	May 16	June 17	1,269
218	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 14	May 13	1,596
228	28. BENSON, A. R., Internal-Combustion Engines	June 26	June 24	2,061
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Aug. 13	Sept. 9	822
249	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	May 15	Nov. 5	1,279
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	June 7	June 8	2,565
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	July 11	July 11	1,836
158	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 10	May 15	2,631
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 15	June 19	1,154
114*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Aug. 2	Sept. 5	1,807
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	June 1	June 19	2,302
226*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 10	May 16	2,233
143	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	Apr. 29	Apr. 29	2,121
229	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 1	May 1	2,083
267*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	May 7	Aug. 2	3,062
125	41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	June 12	June 12	1,407
220*	42. CUTTING, H. O., Electric Signaling	July 8	Aug. 6	1,640
128*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	Apr. 25	May 1	2,460
261	44. SHAFFER, O. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	Apr. 22	May 1	2,887
277	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	May 4	May 7	2,537
252	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	June 28	July 1	1,721
204	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	Apr. 27	June 3	2,627
215*	48. ROEPKE, O. B., Electricity, General Applications	June 3	June 4	1,421
228	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Aug. 1	Aug. 12	1,217
223	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	May 16	May 28	2,954
244*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	May 29	May 29	2,364
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	July 1	July 1	2,552
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 12	Sept. 6	1,363
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	May 15	May 16	2,767
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	†Jan. 23	†Feb. 7	432
	{Designs	Oct. 17	Oct. 17	492
206	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	May 15	May 24	2,353
267*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 15	June 8	1,292
270*	58. DOWELL, E. F., Abrading; Typewriting	May 1	May 1	1,456
314	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	May 16	May 18	2,905
219*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	May 23	May 23	2,265
260	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	Apr. 22	May 14	2,546
248*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	June 5	June 10	2,972
162	Trade-Marks, Labels, and Prints: F. A. RICHMOND—{Trade-Marks	†Jan. 22	†Feb. 10	1,336
	{Labels and Prints	†Jan. 29	†Feb. 7	89

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

THOMPSON *v.* CHAPMAN. CHAPMAN *v.* THOMPSON

Nos. 2,144 and 2,145. Decided December 30, 1929

INTERFERENCE—PRIORITY.

The record reviewed and *Held* to establish that priority was properly awarded to T. as to counts 1, 3, and 4, and to C. as to counts 2, 5, and 6.*

APPEAL from the Patent Office. Affirmed.

Mr. A. E. Dowell for Thompson.

Mr. A. L. Morsell for Chapman.

BLAND, *J.:*

The appeal and cross appeal herein arise from interference proceedings in the Patent Office, which involved six counts relating to a continuous cooker of the type wherein cans containing vegetables, milk, etc., are moved in a continuous stream from one end of a single unit or tank to another, being passed through a heated body of water, the particular invention involved relating to the division of the apparatus into a plurality of heating zones, the complete cooking of the contents of the cans being performed in the single units or tank referred to.

Both in the patent of Chapman and the reissue application of Thompson involved in the interference, the cans are caused to be moved along a spirally-trending member surrounding a drum carrier, and this drum carrier is subdivided by partitions into a series of heating zones. The six counts involved are as follows:

[Only counts 1 and 2 are here printed.]

1. A continuous cooker, comprising a horizontally extending tank having inlet and outlet openings and zones of various degrees of heat, a single spirally trending member extending through said heat zones, and a single rotary carrier extending through the spirally trending member and coacting therewith for moving cans and having means forming part of and moving with the carrier for preserving the heat zones.

2. A continuous cooker, comprising a tank member having an inlet and an outlet opening and a plurality of compartments for maintaining heat at various temperatures in each compartment, and a rotary carrier within the tank and extending through the compartments for moving cans from one end of the tank to the other and extracting heat from said compartments and aiding in preserving the differences in temperatures in said compartments, said rotary carrier having partitions forming part of and moving with the carrier which coincide with the tank partitions to maintain predetermined degrees of heat in each compartment.

The tribunals below awarded priority to Thompson as to counts 1, 3, and 4, and to Chapman as to counts 2, 5, and 6.

The issues herein, for the most part, involve the question as to whether or not Thompson's application in 1921 disclosed tank partitions. It is urged by Thompson that said application did disclose said partitions in the tank, although no definite claim was made therefor. Both tribunals below concur in the view that said application did not disclose such partitions, and having found the evidence insufficient to prove a conception and reduction to practice earlier than Chapman's conceded dates, priority was, as to counts 2, 5, and 6 (which involved the partitions) awarded to Chapman. Counts, 1, 3, and 4 were regarded as not claiming for partitions, and priority as to them was awarded to Thompson.

The Examiner of Interferences, in considering and construing the evidence on behalf of Thompson, which was offered for the purpose of establishing a conception date of the subject matter of counts 2, 5, and 6 earlier than the conceded record date of conception and reduction to practice of Chapman, stated in substance that even if the evidence could be said to establish such conception on the part of Thompson, Chapman should prevail as to counts 2, 5, and 6 for the reason that he had not been diligent, since admittedly he did not actually reduce to practice before June, 1923.

There was much testimony taken by both sides which was carefully considered by the Examiner of Interferences and by the Examiners in Chief. Both tribunals regarded the testimony on the part of Thompson as not fixing a date which would justify his claim for priority on counts 2, 5, and 6, and that none of the testimony or other record facts in the case warranted giving priority of the subject matter covered by counts 1, 3, and 4 to Chapman. So, as we view it, the tribunals below have decided the case upon the record facts aside from any testimony.

We have examined the evidence with considerable care and we can not arrive at any other conclusion than that arrived at by the tribunals below. An examination of the Thompson disclosure, which is his application of 1921, convinces us that no partitions of the kind claimed in counts 2, 5, and 6 were therein disclosed. We conclude, therefore, that the decision of the Board of Appeals, awarding priority of invention to Thompson as to counts 1, 3, and 4, and to Chapman as to counts 2, 5, and 6, was not against the weight of the evidence and was not clearly erroneous and, therefore, is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

COPE *v.* FAHRENWALD

No. 2,165. Decided December 19, 1929

INTERFERENCE—PRIORITY—EMPLOYER AND EMPLOYEE.

Evidence reviewed and *Held* to establish that the relation of employer and employee did not exist between C. and F., that the invention in issue was devised by F., and that priority was properly awarded to him.

APPEAL from the Patent Office. Affirmed.

Mr. Harry Frease for Cope.

Mr. Harold E. Smith and *Mr. Hervey S. Knight* for Fahrenwald.

HATFIELD, *J:*

This is an appeal, in an interference proceeding, from the decision of the Commissioner of Patents awarding priority of invention to appellee.

The invention relates to resistor grids for electric furnaces.

Several counts were involved in the original interference. The issue presented here, however, is limited to count 2, which reads as follows:

2. A grid formed of a bar of substantially T-shaped, cross sectional shape bent upon itself to provide a plurality of vertical parallel portions connected at alternate ends by curved portions.

The applications of the parties were filed as follows: Cope, September 17, 1923; Fahrenwald, May 19, 1924.

As Fahrenwald was the junior party, he had the burden of proof.

The Examiner of Interferences, the Examiners in Chief, and the Assistant Commissioner of Patents have concurred in awarding priority of invention to appellee. In view of the fact that the evidence has been given extended consideration in the opinions of these tribunals, we will confine this discussion to such matters as are necessary to a determination of the precise issues before us.

It appears from the record that appellant was chief engineer and vice president of The Electric Furnace Company, manufacturers of electric furnaces, at Salem, Ohio.

It further appears that appellee, a metallurgist, had developed a heat resisting alloy metal which would resist high temperatures, and, in association with The Electro-Alloys Company of Elyria, Ohio, was engaged in the production and sale of heat resisting alloy castings for various purposes, including those for use in "the electric resistance heating field"; and that, some time in the spring of 1920, appellee had designed and made an experimental cast resistor grid from his alloy metal, but, as it did not "exhibit a T-shaped cross section," does not support the claim in issue. This experimental grid was not satisfactory for two reasons, namely: first, it was too small for commercial purposes; second, it "showed very undesirable casting characteristics in that, *with the approximately rectangular cross section employed, it was extremely difficult to make castings free from* an excessive amount or number of shrinkage cracks or porosity." (Italics ours.)

There is some evidence tending to prove that later in that year—1920—appellee had cast a T-shaped resistor grid from his new heat resisting alloy metal; and that, in response to a letter from Cope under date of January 17, 1921, addressed to The Electro-Alloys Company, this T-shaped grid was shown to Cope in March of that year. However, as the case may be disposed of without passing upon this issue, we do not consider it.

On June 29, 1922, Fahrenwald wrote the following letter to appellant:

> Dear Mr. Cope:
>
> Arrangements are being completed for production of heat-resisting alloy castings thru the Ohio Steel Foundry Company, and as I *shall only exclude from my contracts with them existing agreements, I write to ask whether you still propose working out the cast resistor end of this field. If you do not, I shall include this with the general castings business,* but if you do, I think it probable on account of pending activities with the larger castings business that I shall have more time to devote to this now than later.
>
> * * * (Italics ours.)

Appellant replied as follows:

> Dear Mr. Fahrenwald:
>
> Replying to your inquiry of June 29th relative to cast resistor material, we wish to advise that we desire to work out the manufacture and use of this material at as early a date as possible.
>
> We are starting to reline the small furnace of which we told you and expect to have this in shape for operation the fore part of next week, at which time we would be glad to have you come down to our plant and see what can be done. We shall advise you about two days in advance of the time when we can have the furnace heated.
>
> If it should develop that we can handle the manufacture of this material successfully we would like also at this time to have your specific proposition as to retainer, license and other fees.
>
> * * * * * * *

Appellee replied, advising appellant as to the raw materials to have on hand and that the matter of retainer and license fees would be discussed when he visited appellant's factory.

Following this preliminary correspondence between the parties, appellee visited The Electric Furnace Company's plant in July, 1922. Appellant had made a channel-shape pattern grid, which he had hoped could be cast from appellee's heat resisting alloy metal on the occasion of appellee's visit. It appears conclusively from the record that considerable discussion was had at that time between appellant, appellee, and others regarding the melting of appellee's heat resisting alloy metal; that appellee explained the difficulties incident to casting a channel-shaped resistor grid, and, at this time, suggested to appellant the advisability of casting the resistor grid in the T-form defined in the count in the interference. This seems to be conceded. We quote from appellant's brief:

> And, it being admitted by Cope that Fahrenwald suggested the T-shape of his enameling bar for use in a resistor grid after Cope had devised a channel section for the grid, it is only necessary to consider the facts which are conceded or established, as far as they have a bearing on the questions of law relied upon; * * *

In his decision the Examiner of Interferences, among other things, said:

> Fahrenwald prior to Cope's earliest work in the field of bar resistor grids had made resistor grids of the type of Exhibit 1 which answered every part of count 2 except the specification of the T shaped cross section. It is true the suggestion came at a conference based on grid forms proposed by Cope with Fahrenwald present merely as an expert in casting, particularly in casting his own alloys. Nevertheless he was under no such fiduciary relation to Cope as would cause to inure to Cope's benefit under the employer-employee doctrine any invention which was ancillary to Cope's invention if it were also ancillary to his own. The evidence is clearly to the effect that grids of the type of Exhibit 1 are difficult to cast out of high temperature allows [alloys] and that bars of T section are simpler to cast. The T form is therefore as much an improvement on grids like Exhibit 1 invented by Fahrenwald as it is of a grid of channel form such as was made by Cope prior to July, 1922, and suggested to Fahrenwald by him at that time. Count 2 will therefore be adjudged to Fahrenwald.

This finding was affirmed by the Examiners in Chief and, in turn, by the Assistant Commissioner.

It is contended by counsel for appellant that Fahrenwald's suggestion of the T-shaped grid was merely that of a metallurgic foundry expert, whose advice was sought and obtained by appellant for the sole purpose of aiding him in casting resistor grids from the heat resisting alloy metal of appellee; that, while the "T form" was a valuable addition, it was ancillary and subordinate to appellant's generic invention—the channel-shaped grid; and that, as appellee was present for the sole purpose of aiding and advising appellant in the use of the heat resisting alloy metal, any valuable additions to appellant's generic invention, suggested by appellee, would inure to appellant's benefit under the so-called employer-employee doctrine; and that, therefore, the tribunals of the Patent Office erred in awarding priority of invention to appellee. Several cases have been cited by counsel for appellant in support of his contention.

If the parties occupied the relation of employer and employee and, if Fahrenwald was present for the purpose of putting Cope's invention into practical form, any valuable additions, not in themselves amounting to invention, would inure to the benefit of Cope. *Larson* v. *Crowther*, 329 O. G. 539; 55 App. D. C. 58, 1 Fed. (2nd) 761. In our opinion, however, these principles of law are not applicable to the facts in this case.

We think it apparent from the correspondence between the parties and from the testimony as to what occurred at appellant's plant in July, 1922, that appellee was not employed in any capacity by appellant; and that, as stated by the tribunals below, the T-shaped form of grid, suggested by appellee, was as much an improvement over the original resistor grid perfected by appellee, as it was over the channel-shaped grid perfected by appellant. This view of the facts seems to be confirmed, to some extent at least, by a written license agreement entered into by The Electric Furnace Company (of which company appellant was then vice president) with appellee under date of September 1, 1922, in which it was agreed that, in consideration of certain sums, as "royalties," to be paid to appellee, appellant's company should have the exclusive right to the manufacture, use, and sale of appellee's "metallic resistors heating elements," *regardless of their composition.* The parties thereto operated under this agreement for a considerable length of time. It would seem strange indeed for appellant's company to agree to pay royalties for the use of appellee's metallic resistors, whether or not made of appellee's heat resisting alloy metal, if the T-shaped grid was the valuable one and appellant believed that he was the original inventor thereof.

We are satisfied that the decision below is in harmony with both the law and the facts. It is, therefore, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE STEVENS

No. 2,193. Decided December 19, 1929

PATENTABILITY—TOOL-RETAINING COUPLING FOR PERCUSSIVE MACHINES.

A tool-retaining coupling for percussive machines including a cushion member surrounding the tool shank and split leather washers at both ends of the cushion *Held* unpatentable over the prior art since it was well known that a washer would act as a buffer and that "the commonplace pliable leather washers are more appropriate for some purposes than those composed of metal."

APPEAL from the Patent Office. Affirmed.

Mr. Ira L. Nickerson for Stevens.

Mr. T. A. Hostetler for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from a decision of the Board of Appeals affirming the decision of the Examiner rejecting claims 1, 2, 13, 14, and 15 in appellant's application for an alleged invention relating to a tool-retaining coupling for percussive machines.

Claim 15 is illustrative. It reads:

> 15. A tool retaining coupling for percussive machines comprising a cylindrical member adapted to be secured to the percussive machine and to receive the shank of a working tool provided with a collar, an abutment for the tool collar within said cylindrical member, a cylindrical cushion member arranged to surround the tool shank between its collar and said abutment, and split leather washers at both ends of said cushion member arranged closely to fit the tool shank and to fill the intervening space between the tool shank and said cylindrical member thereby to prevent undue wear and fraying of said cushion member.

The claims in question were rejected by the tribunals of the Patent Office on the following references: Jimerson, 1,481,641, January 22, 1924; Bates, 364,081, May 31, 1887.

Appellant's application discloses a "coupling sleeve" adapted to be secured, by means of screw threads, to a percussive machine. The "coupling sleeve" has an opening at its outer end of sufficient size to receive the collar on the shank of a working tool, such as a "clay digger spade." Inwardly of the opening in the "coupling sleeve," and surrounding the tool shank, is a split abutment member. A cylindrical rubber cushion is interposed between the collar on the shank of the working tool and the abutment. A split leather washer is placed at each end of the rubber cushion to prevent it from becoming frayed.

The patent to Jimerson shows a tool with a collar, coupling sleeve, rubber cushion or buffer, and split metallic members at each end of the rubber cushion. We quote therefrom:

> * * * The rubber buffer is located within the barrel nut forming the front head of the tie tamper and a split metallic buffer washer is preferably arranged between the buffer and the outer end of the barrel nut over the opening in the end of the barrel nut through which the collared shank of the tamper steel passes in assembling the parts, so that said washer closes the opening, protects the buffer and prevents the buffer from squeesing through the hole in said end.
>
> * * * * * * *
>
> A flanged split bushing F loosely surrounds the shank of the steel forwardly of the collar C and extends into the front end of the cylinder A. The two parts of the split bushing F are formed with a flange G in this instance bearing against the outer end of the cylinder. Sufficient space is maintained between the opposed ends of the sleeve and split bushing to permit limited movement of the collar and steel in said space.
>
> * * * * * * *
>
> The outer end O of the barrel nut is provided with an aperture P of sufficient alse to permit the entrance of the collar C of the steel and the buffer washer J between the buffer H and the end O of the barrel nut closes this opening when the parts are assembled, protects the buffer, prevents the buffer from becoming distorted and damaged by shock and pressure which would otherwise tend to force the material of the buffer through the aperture P.

Leather buffers or washers are shown in the patent to Bates to prevent metal striking metal.

In its original decision in the case, the Board of Appeals referred to the disclosures in the patents to Bates and Jimerson, and held that the use of leather buffers was but a matter of choice and that, if metal buffers did not sufficiently protect the rubber cushion, the substitution of leather, for metal, washers, would not amount to invention.

In appellant's petition for rehearing it was claimed that the split metallic buffer or abutment at the outer end of the coupling sleeve was provided for the purpose of supporting the rubber cushion and to close the opening in the sleeve, and that appellant had supplied an additional member, to wit, a leather washer or buffer between the metal abutment and the rubber cushion.

Concluding his argument on the issue just referred to, counsel for appellant said:

> Thus the point involved in each of the appealed claims is *not* that of mere substitution of material but the utiliza-

tion of one or more addition elements in an old structure to perform a distinctly new function.

With reference to this contention, the Board of Appeals said:

* * * In appellant's construction there is no direct abutting action between the tool collar and the member G. Hence it is our view that the inturned portion O of the barrel nut L of the Jimerson patent may serve as an abutment for the collar on the tool through the member F having a flange G. With this view of the case the only question involved in the rejection of the claims is that of substitution of a leather washer for the metal washer J of the Jimerson patent. The substitution is taught we think, by the Bates patent.

The precise issue relates to the leather washers as added features to the Jimerson disclosure. Their sole purpose, as has been stated, is to give greater protection to the rubber cushion. We think it unnecessary to enter upon a discussion of the technical differences, if any, between the device disclosed by appellant and the reference cited.

Assuming, for the purpose of this decision, that counsel for appellant is technically correct in the contention that appellant has interposed between the metal abutment and the rubber cushion, shown in the patent to Jimerson, an additional member—a split leather buffer—for the protection of the upper end of the rubber cushion, and that he has substituted a split leather buffer for the metal member shown at the collar end of the shank in the Jimerson patent, and that, by means of such leather buffers, the fraying of the rubber cushion has, to a degree, been prevented, we are of opinion, nevertheless, that all he has done is to give application to the well-known truths, that a washer will act as a buffer and prevent wear and that the commonplace pliable leather washers are more appropriate for some purposes than those composed of metal. Surely, it is not the exercise of the inventive faculties to substitute a leather, for a metal, washer, or to supply an additional leather washer for the precise and familiar purposes for which such washers are commonly used. If it is, then every mechanical improvement may be said to result from the exercise of the inventive faculties.

In the case of *Atlantic Works* v. *Brady*, 107 U. S. 192, 200, 23 O. G. 1330, the Supreme Court said:

The design of the patent laws is to reward those who make some substantial discovery or invention, which adds to our knowledge and makes a step in advance in the useful arts. Such inventors are worthy of all favor. It was never the object of those laws to grant a monopoly for every trifling device, every shadow of a shade of an idea, which would naturally and spontaneously occur to any skilled mechanic or operator in the ordinary progress of manufactures. Such an indiscriminate creation of exclusive privileges tends rather to obstruct than to stimulate invention.

We think the quoted excerpt has particular application to the issues before us.

For the reasons stated, the decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE CREWS

No. 2,171. Decided December 19, 1929

PATENTABILITY—WEB-TYPING EQUIPMENT AND METHOD.

Claims for a method of producing an original writing and full and partial duplicates thereof at a single operation and a web-typing equipment for carrying out that method *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Burnham C. Stickney and *Mr. L. H. Campbell* for Crews.

Mr. T. A. Hostetler for the Commissioner of Patents.

GARRETT, *J.*:

Appellant claims invention relating to the art of typewriting, claims 1, 2, 3 and 4 being for a method patent, and claims 5, 6, 7 and 8 for a web-typing apparatus. These claims were successively rejected by the Examiner, the Board of Examiners in Chief, and the Commissioner of Patents, being brought before us by appeal from the decision of the latter, rendered December 21, 1927.

Claim No. 2 is typical of the four involved in the method application and No. 6 is typical of the four apparatus claims.

2. The method of producing an original writing and full and partial duplicates thereof at a single operation, which consists in attaching long and short carbon-sheets to the carbon-carrier of a continuous billing typewriting machine, with continuous work-webs interleaved therewith, locating the work-webs with the form-section in writing position with the carbons so arranged that both the long and short carbons cover the form-section at writing position with the long carbon protruding beyond the leading edge of said form-section, typing on said form-section the matter which is to appear on all the work-plies, shifting the carbon-carrier to withdraw the short carbon from between the plies of said form-section to be further typed and to draw the protruding upper end of the long carbon into interleaved relation with the plies of said section, and typing on the form-section to manifold upon one ply thereof and not manifold upon the other ply.

6. A web-typing equipment having a platen and a carbon-holder through which superposed plies of work-web are threaded, means for manifolding the entire typed matter upon one web-ply while only the upper portion of said typed matter is typed upon another web-ply, including a normal carbon sheet of shorter length also connected to said carbon-holder, said shorter length carbon-sheet extending to the top of the form to be typed and said normal sheet extending excessively beyond the top of said form preparatory to typing upon the tops of all the forms the mater which is to appear upon all of the plies, means being provided to effect intermediately a relative stripping between the carbon-holder and the web-plies, bringing the shorter length carbon back entirely out of the printing field, and bringing the excess of the other carbon into the printing field, preparatory to typing the remainder of the form upon one of the work-plies without typing it upon another of the work plies.

The reference cited in the rejection of these claims is a Patent No. 1,132,055 to Wernery and Smith granted March 16, 1915, upon a typewriting machine, and the Examiner also referred to a patent to Fortin, No. 1,237,319, of August 21, 1917, as showing an adjustable stop found to be an anticipation of a stop appearing in connection with appellant's application, but the rejection really rested generally upon the ground that no invention had been shown.

What the method and equipment are intended to accomplish, and what they do accomplish, is the production in one operation of an original and a number of copies or *some full copies* and *some partial copies*, as may be desired, of bills and other documents. It is the method whereby only parts of what is written on the outside sheet as the original are copied, leaving blank other parts of the paper upon which the copy or copies may be made, which constitutes the basis of appellant's claims.

The process, when one observes the operation, an exhibition of which was given in the presence of the court by its permission, is quite simple, although it is somewhat difficult of written description. The end sought is obtained by having carbon sheets of different lengths inserted between the papers upon which the writing is to appear. These carbon sheets are attached to a continuous billing typewriting machine in such a way as to admit of their manipulation. The principle of this manipulation of the carbon sheets by the machine is practically the same as that involved when carbons of the same length are used and full copies made. It is a matter of spacing the carbon sheets in such a way as that only a part of the blank sheet upon which the original is written has carbon under it, or between it and the plain sheets upon which the copies are to be produced. That part of the copy sheet which has carbon over it will receive the impression of the typewriter letters, and the other part will not.

It is represented that frequently business concerns and others will wish to have matter upon the original, only a part of which is desired upon the copy or copies. By the method of applicant this can be consummated in a way to save much time and it is, therefore, a valuable convenience.

We agree with the tribunals of the Patent Office, however, that the method presents nothing new in the art of typewriting which is inventive in the sense of the patent laws, nor does the web equipment claimed present any principle or feature which we can distinguish as being new or not involved in the prior art. In the final analysis the whole matter depends upon the correct spacing and manipulation of carbon sheets of different lengths and this is largely a matter of judgment and skill on the part of the operator. Nothing new is claimed in the way of a mechanism unless we could take seriously the contention of appellant's solicitor that the carbon sheets become in some way a part of the writing machine. This we can not do, and, even if we could, carbon paper is rather too old in the typewriting art to hold that by using different length sheets spaced upon a plan that any skilled operator may employ makes it a patentable addition to a mechanism already patented. It is not invention to use an old machine for a new purpose. *Roberts* v. *Ryer*, 91 U. S. 151. See also *In re McNeil and Sturtevant*, C. D. 1907, p. 478, 28 App. D. C. 451. *Burt* v. *Ritchie*, 251 Fed. 909, 918, and cases cited therein declare the rule that "a patentee can not patent a combination of device and material upon which it works."

To grant a patent or patents as sought herein would open the way for charges of infringement against operators of typewriting and continuous billing machines who have occasion to use carbonized sheets of different lengths in making copies of their writings and might interfere with that freedom of use by an operator of patented machines which the law contemplates and admits.

In *Potts* v. *Creager*, 155 U. S. Rep. 597, 606, the Supreme Court said:

Doubtless a patentee is entitled to every use of which his invention is susceptible, whether such use be known or unknown to him.

It is also the law that the purchaser of a patented article for his use is entitled to use it for any work which it will perform without being restricted to a specific method of use. The owner of a patented mowing machine, for instance, is not restricted to using it for cutting vegetation intended for hay; he may use it to cut weeds or other vegetation. The owner of a typewriting or continuous billing machine should certainly be entitled to use it for writing upon any character of paper which the machine will take, including carbon sheets of whatever length the operator may find desirable and arranged as the operator may wish to arrange them for making copies or partial copies as may be desired.

While a new device for holding, manipulating and adjusting carbon paper interleaved with the sheets upon which copies are produced might present a patentable invention, nothing of that sort is here involved. The process involves simply the adaptation of the Wernery and Smith patent to achieve an old result—making copies by utilizing carbon paper.

We find no patentable invention in the claims presented. The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 19, 1922]

970,812, A. C. Graham, Shoe guide for well casings, D. C., S. D. Calif. (Los Angeles), Doc. 3634-M. *A. C. Graham* v. *Union Tank & Pipe Co.* Dismissed with prejudice Dec. 17, 1929.

1,016,897, C. Ryan, Nut lock; 1,275,478, same, Lock nut and bolt, D. C., Minn. (3d Div.), Doc. E 784, *C. Ryan* v. *Great Northern Rwy. Co.* Dismissed Dec. 27, 1929. Same, filed Dec. 4, 1929, D. C., Minn. (3d Div.), Doc. E 1800, *Illinois Steel Co.* v. *C. Ryan.*

1,083,512, L. B. Wilson, Collapsible carton or box, filed Dec. 18, 1929, D. C., S. D. Ind. (Indianapolis), Doc. 1223, *Egg Safety Carton Corp.* v. *The Wadley Co.*

1,113,080, G. E. Wilson, Hose coupling, appeal filed Jan. 2, 1930, C. C. A., 2d Cir., Doc. 10746, *L. H. Ensten et al* v. *Ascher & Co., Inc.*

1,177,079, P. Agrillo, Chain, filed Dec. 24, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9572, *B. C. Loew* v. *The Fair.*

1,224,253, Wiley and Hough, Illuminated sign, filed Dec. 12, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9536, *Flexlume Corp.* v. *W. M. Nelson et al.* Doc. 9537, *Flexlume Corp* v. *Lu-Mi-Nus Signs, Inc.* Doc. 9538, *Flexlume Corp.* v. *American Neon Sign Co.*

1,249,981, S. R. Malloch, Silent railway crossing, appeal filed Jan. 5, 1929, C. C. A., 3d. Cir., Doc. 4028, *S. R. Malloch* v. *Philadelphia Rapid Transit Co.* Decree affirmed Jan. 8, 1930.

1,271,529, M. C. Hopkins, Acoustic device, filed Dec. 11, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9535, *Lektophone Corp.* v. *Transformer Corp. of America.*

1,275,478. (See 1,016,897.)

1,279,160, H. Rodman, Carburizing material; 1,372,532, Same, Casehardening compound and method of manufacturing, filed Dec. 26, 1929, D. C., S. D. Ind. (Indianapolis), Doc. 1227, *Rodman Chemical Co.* v. *Char Products Co.*

1,281,081, W. H. Sells, Corn-husking machine, filed Nov. 30, 1929, D. C., Md., Doc. E 1608, *Sprague-Sells Corp.* v. *The United Co.*

1,299,404, E. Haynes, Noble alloy, filed Oct. 16, 1929, D. C. Md., Doc. E 1589, *American Stainless Steel Co.* v. *Rustless Iron Corp. of America.*

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Nov. 8, 1929, D. C., W. D. Wash. (Tacoma), Doc. E 405, *Alemite Corp.* v. *Tacoma Auto Supply Co., Inc.* (To correct error in 390 O. G., 5.)

1,307,734. (See 1,307,733.)

1,320,662, W. H. Tomlinson, Doughnut machine; 1,333,389, Comb and Peavey, Machine for cooking doughnuts; 1,414,713; Sherman and Morris, Cooking apparatus; 1,486,986, Morris and Bergner, same; 1,492,541, 1,492,542, 1,665,017, J. C. Bergner, same, filed Dec. 17, 1929, D. C., Md., Doc. E 1616, *Doughnut Machine Corp.* v. *Devoco, Inc., et al.*

1,326,142, B. H. Skelly, Force-feed lubricator, D. C., S. D. N. Y., Doc. E 32/350, *Bowen Products Corp.* v. *Bijur Lubricating Corp.* Dismissed on merits Jan. 7, 1930.

1,333,389. (See 1,320,662.)

1,342,885, E. H. Armstrong, Method of receiving high-frequency oscillation, filed Jan. 2, 1930, D. C., N. D. Ohio (E. Div.), Doc. 3237, *Radio Corp. of America et al.* v. *The G. W. Walker Co.*

1,372,832. (See 1,279,160.)

1,384,394, H. D. McFaddin, Attachment for desk lamps, filed Jan. 7, 1930, D. C., S. D. N. Y., Doc. E 51/318, *H. G. McFaddin & Co., Inc.* v. *S. R. Swarts et al.*

1,390,145, E. J. Lees, Gear grinder, 1,462,985, C. H. Scharr, Gear-grinding apparatus, D. C., N. D. Ohio (E. Div.), Doc. 2602, *The Lees-Bradner Co.* v. *The National Tool Co.* Claims 29 and 33 of 1,390,145 and claim 21 of 1,462,985 held invalid Jan. 4, 1930.

1,400,914, M. H. Shoenberg, Socket interrupter; 1,602,088, Shoenberg and Schon, Circuit interrupter, D. C., N. D. Calif. (San Francisco), Doc. 1823–S, *General Appliance Corp. et al.* v. *H. Hills et al.* Claims 1 and 3 of 1,400,914 and claims 16, 17, and 18 of 1,602,088 held valid and infringed (notice Jan. 2, 1930).

1,409,461, 1,484,610, F. A. Myers, Butt hinge, filed Jan. 3, 1930, D. C., S. D. N. Y., Doc. E 51/290, *The Stanley Works* v. *D. Silver et al.*

1,414,713. (See 1,320,662.)

1,460,716, B. F. Greer, Book-form savings bank, C. C. A., 2d Cir., Doc. — *Maondaine Products Corp.* v. *La Minuette Trading Co.* Decree reversed (notice Jan. 6, 1930).

1,462,985. (See 1,390,145.) 1,484,610. (See 1,409,461.)

1,486,986. (See 1,320,662.) 1,492,541. (See 1,320,662.)

1,492,542. (See 1,320,662.)

1,520,912, J. V. Peacock, Pulling machine, D. C., S. D. Ohio (W. Div.), Doc. E 432, *T. Huston Mfg. Co. et al.* v. *Clyde Iron Works Sales Co.* Claims 1, 2, and 5 held valid and infringed, claims 4 and 7 held invalid (notice Jan. 9, 1930).

1,566,068, L. R. Brundage, Apparatus for compressing and assembling coil springs, filed Oct. 10, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9364, *L. R. Brundage* v. *N. Johnson et al.*

1,586,764, H. J. Wheaton, Manufacture and production of a base-exchanging compound, C. C. A., 8th Cir. (St. Louis), Doc. 8556, *American Dowell Co.* v. *Twin City Water Softener Co. et al.* Decree reversed Dec. 19, 1929.

1,590,982, E. B. Morris, Farrowing house, D. C., S. D. Iowa (Des Moines), Doc. 4381, *M. L. Morris, et al.*, v. *Western Silo Co., Ltd., et al.* Decree for plaintiff Jan. 7, 1930.

1,594,047, E. F. Clark, Pocket cigar lighter, filed Dec. 26, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9573, *Clark Lighter Co., Inc.*, v. *P. Sherman Co.*

1,599,916, J. R. Nye, Doughnut-frying machine, filed Dec. 13, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9539, *J. R. Nye* v. *J. Lowe Corp. et al.*

1,602,088. (See 1,400,914.)

1,629,658, O. Fox, Water heater, D. C., N. D. Ohio (E. Div.), Doc. 2601, *The Bryant Heater & Mfg. Co.* v. *The B-Line Boiler Co.* Claims 6 and 7 held valid and infringed Jan. 10, 1930.

1,632,846, A. J. Penote, Sectional form, D. C., N. D. Ohio (E. Div.), Doc. 2912, *A. J. Penote* v. *O. F. Applegate (American Body & Fender Repair Co.)*. Claims 1 to 6, inclusive, held valid and infringed Jan. 2, 1930.

1,632,357, L. J. Barton, Abrasive-resisting metal and process for making, filed Jan. 6, 1930, D. C., Nev. (Carson City), Doc. G–9, *L. J. Barton* v. *Nevada Consolidated Copper Co.*

1,663,534, R. E. Wallizer, Fringe-tasseling machine, filed Dec. 2, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9531, *H. F. Wallizer Co.* v. *E. L. Mansure Co.*

1,665,017. (See 1,320,662.)

1,673,082, A. S. Lewis, Refrigerating system, filed Nov. 16, 1929, D. C., Md., Doc. E 1600, *The Motorfrigerator Co.* v. *Frigidaire Sales Corp. et al.*

1,674,942, L. Benoit, Machine for assembling cartons, filed Dec. 18, 1929, D. C., S. D. Ind. (Indianapolis), Doc. 1224, *L. Benoit et al.* v. *The Wadley Co.*

1,679,120, O. Fox, Water heater, D. C., N. D. Ohio (E. Div.), Doc. 2628, *The Bryant Heater & Mfg. Co.* v. *B-Line Boiler Co.* Claims 4, 5, and 7 held valid and infringed Jan. 10, 1930.

1,692,661, M. C. Hutto, Combined abrasive and carrier, D. C., E. D. Mich. (S. Div.), Doc. 3174, *Hutto Engineering Co., Inc.*, v. *Grinder Sales Co.* Dismissed Jan. 4, 1930.

1,697,954, J. M. Gribbie, Electrical connecter, filed Dec. 14, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9540, *Shakeproof Lock Washer Co.* v. *Thompson-Bremer Co.*

1,735,839, A. L. Johnson, Jack, filed Jan. 2, 1930, D. C., W. D. Mich. (Grand Rapids), Doc. 2314, *Walker Mfg. Co.* v. *Auto Specialties Mfg. Co.*

Re. 17,383, L. H. Englund, Cleaning composition with a fluorescent concentration indicator, filed Oct. 28, 1929, D. C., Minn. (3d Div.), Doc. E 1745, *Economics Laboratory, Inc.*, v. *Pittsburgh Soap & Chemical Co. et al.*

Des. 75,567, A. R. Kanne, Lamp body, filed Jan. 3, 1930, D. C., S. D. N. Y., Doc. E 51/291, *Kanne & Bessant, Inc.*, v. *W. L. Kessler, Inc.*

Des. 79,400, C. Morall, Shoe, filed Jan. 8, 1930, D. C., S. D. N. Y., Doc. E 51/320, *Delman, Inc.*, v. *Sommers, Inc.*

Des. 79,670, H. Sarafian, Advertising panel, filed Jan. 9, 1930, D. C., S. D. N. Y., Doc. 51/323, *Novelite, Inc.*, v. *Advance Display Corp. et al.*

Disclaimers

REIS. 16,795.—*Robert W. Scott*, Babylon, N. Y. STOCKING AND THE MANUFACTURE THEREOF. Patent dated November 22, 1927. Disclaimer filed February 11, 1930, by the assignee, *Scott & Williams, Incorporated.*

Hereby enters this disclaimer to such broad interpretation of the claims of the said reissued patent as might construe them to read upon stockings knit with ribbed or mock-ribbed instep, this invention being limited to stockings in which the heel and the instep at the ankle are both of plain knitting.

1,239,074.—*Arthur G. Bagnall* and *James A. Taylor*, Cleveland, Ohio. PROCESS OF COATING SURFACES. Patent dated September 4, 1917. Disclaimer filed February 15, 1930, by *The Union Trust Company*, executor of the last will of Charles H. Parkin, deceased, the assignee.

Hereby enters this disclaimer to all that part of the said specification and claim which is contained in claim 7 of said patent.

1,672,264.—*Frank X. Lauterbur* and *Edward J. Lauterbur*, Sidney, Ohio. PROCESS OF MIXING DOUGH. Patent dated June 5, 1928. Disclaimer filed February 13, 1930, by the *patentees.*

Enter this disclaimer to certain of the process claims of the above identified patent—Namely, claims 1 and 2 excepting when in the process claimed the process of preventing overheating of a dough mass is accomplished by mixing the dough so that there is no substantial frictional contact of the dough with that portion of the receptacle walls against which gravity and the centrifugal force due to rotation, combined, would tend to project said mass.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 4, 1930

[VOL. 392. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 285,922. THE KOPPERS COAL COMPANY, Pittsburgh, Pa. Filed June 21, 1929.



No claim is made to the exclusive right to use the word "Coal" or the representation of coal apart from the trade-mark as shown.

For Coal.

Claims use since June 10, 1929.

Ser. No. 291,701. SUNNYBROOK COAL CO., Detroit, Mich. Filed Oct. 28, 1929.



For Bituminous Coal.

Claims use since July 29, 1929.

Ser. No. 293,089. CENTRAL ATLANTIC STATES SERVICE CORPORATION, Newark, N. J. Filed Nov. 30, 1929.

CASSCO

For Ice, Coal, and Fuel Wood.

Claims use since about May 1, 1928.

Ser. No. 293,185. KWONG CHEUNG LUNG & CO., San Francisco, Calif. Filed Dec. 3, 1929.

GOLDEN MOUNTAIN

For Melon Seed.

Claims use since Nov. 19, 1929.

Ser. No. 293,493. TASCO ASPHALT CO., Newark, N. J. Filed Dec. 10, 1929.

TASCO

For Asphaltic Compounds Including Animal and Vegetable Substances Used as Softeners for Rubber Compounds.

Claims use since May, 1927.

Ser. No. 293,494. TOOTLE-CAMPBELL DRY GOODS COMPANY, St. Joseph, Mo. Filed Dec. 10, 1929.



For Cotton Batting.
Claims use since Feb. 19, 1929.

CLASS 2

Receptacles

Ser. No. 291,620. HUMITUBE MFG. CO., Peoria, Ill. Filed Oct. 26, 1929.

HUMITUBE

For Containers of a Diaphanous Material Made in Tube or Envelopelike Formation and Adapted as a Closure for Articles of Merchandise, Such, for Example, as Cigars.
Claims use since July 27, 1929.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 287,773. RUSSEKS FIFTH AVENUE INC., New York, N. Y. Filed July 27, 1929.

MARYLIN

For Hand Bags.
Claims use since Jan. 1, 1920.

Ser. No. 294,252. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed Dec. 31, 1929.

TALON

For Hand Bags, Pocketbooks, Portable Cases for Toilet Articles Made of Leather or Similar Material; Travelling Bags, Money Belts, Brief Cases, Overnight Bags, Pocket Key Containers Made of Leather or Similar Material, Hatboxes of Leather or Similar Material.
Claims use since Nov. 7, 1929.

Ser. No. 294,559. ARNOLD, CONSTABLE & COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 9, 1930.

Sun Bronze

The applicant disclaims the word "Bronze" apart from the trade-mark as shown on the drawing.
For Hand Bags.
Claims use since Dec. 9, 1929.

Ser. No. 294,953. BEST & CO., INC., New York, N. Y. Filed Jan. 20, 1930.

EN ROUTE

For Luggage—Namely, Hand Bags, Traveling Bags, Suit Cases, Hat Boxes, Pocketbooks, and Traveling Cases (Not Fitted).
Claims use since Aug. 12, 1929.

Ser. No. 295,020. COUCH BROS. MANUFACTURING CO., East Point, Ga. Filed Jan. 21, 1930.

OLD BECK

For Horse Collars.
Claims use since about 1904.

Ser. No. 295,021. COUCH BROS. MANUFACTURING CO., East Point, Ga. Filed Jan. 21, 1930.

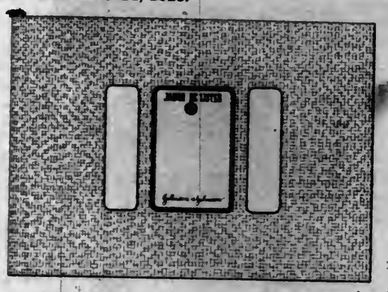
JUNIOR

For Horse Collars.
Claims use since about 1904.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 276,722. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Dec. 14, 1928.



The lining on the drawing indicates the color yellow. No claim is made to the exclusive use of the word "Jabon" apart from the mark as shown.
For Soap.
Claims use since 1896.

Ser. No. 278,283. DAJAN CHEMICAL COMPANY, Boston, Mass. Filed Jan. 22, 1929.

CAMEO

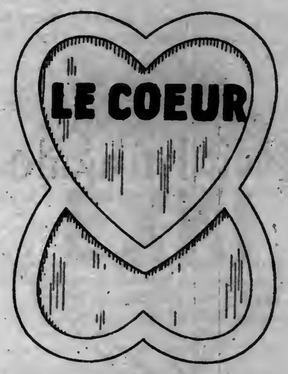
For Washing Compound; Soaps—Namely, Laundry, Toilet, and Shaving; Floor Cleansers; Polishes—Namely, Metal, Silver, Stove, and Shoe.
Claims use since Dec. 14, 1928.

Ser. No. 282,886. TURCO PRODUCTS INC., Los Angeles, Calif. Filed Apr. 23, 1929.



For Soaps and Detergent Cleaning Compounds in Cake, Flake, Pulverized, and Liquid Form.
Claims use since Oct. 15, 1927.

Ser. No. 288,700. ALFONS FEHRENBACH, Union City, N. J. Filed Aug. 19, 1929.



For Soap.
Claims use since Jan. 2, 1929.

Ser. No. 291,682. MILWAUKEE LUBRICANTS CO., Milwaukee, Wis. Filed Oct. 28, 1929.

AMOTEX

For Detergent Washing Powder and Powdered Soap.
Claims use since Oct. 19, 1929.

Ser. No. 291,684. MILWAUKEE LUBRICANTS CO., Milwaukee, Wis. Filed Oct. 28, 1929.

SANIFOAM

For Liquid Toilet Soap and Liquid Scrubbing Soap.
Claims use since May 28, 1929.

Ser. No. 293,864. MAX M. ADLER, Boston, Mass. Filed Dec. 19, 1929.

"JIG"
WATERLESS CLEANER

"JIGS THE DIRT"

Applicant hereby disclaims as a part of the trade-mark the following which appear upon the said drawing: "Waterless Cleaner."
For Household Article in the Nature of a Paste or Semi-liquid for Cleansing Purposes.
Claims use since July 30, 1926.

CLASS 5

Adhesives

Ser. No. 289,260. LOUIS ABSECK, doing business as Louis Abseck Co., Brooklyn, N. Y. Filed Sept. 3, 1929.

FIXIT

For Adhesive Liquid Cement for Repairing and Cementing Woodenware, Glass, China, Porcelain, Building Tile, and Paper Goods.
Claims use since Dec. 28, 1928.

Ser. No. 294,648. HARRY H. SCHAFFER, doing business as So-Lether Manufacturing Co., St. Paul, Minn. Filed Jan. 10, 1930.

SO-LETHER

For Liquid Leather in the Nature of an Adhesive for Mending Leather or Rubber Shoes, Soles, Heels, Etc.
Claims use since on or about Oct. 2, 1929.

Ser. No. 294,969. E. E. FULTON CO., Chicago, Ill. Filed Jan. 20, 1930.

FULCO

For Adhesive Cement.
Claims use since July, 1928.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 268,540. FROMM BROTHERS, Berlin, Germany. Filed June 23, 1928.

FROMM BROTHERS – BERLIN

No claim is made for the wording appearing on the drawing with the exception of the words "Fromm Brothers" nor for the representation of the label appearing on the drawing apart from the mark shown in the drawing.

For Perfumes, Hygienic and Cosmetic Articles, Particularly Skin Cream, Face Lotions, Astringents, Skin-Cleansing Lotions and Creams, Nail Polish, Face Powder, Skin Paints, Scalp Washes; and Pharmaceutical Preparations Comprising Bathing Salts, Antieruption Remedies, Acne Remedies, Rouge, Pine-Needle Preparations, Skin-Bleaching Compounds, Hair Dyes, Dandruff Remedies.

Claims use since 1922.

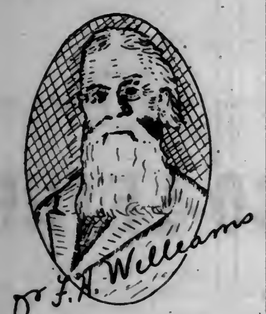
Ser. No. 278,028. CHARABOT, INC., New York, N. Y. Filed Jan. 16, 1929.

INTEGRAL

For Perfumes, Aldehydes, Alcohols, and Natural and Synthetic Essential Oils Suitable for Perfuming Purposes.

Claims use since Jan. 14, 1928.

Ser. No. 281,274. ALBURTON A. DEWEY, Bristol, Conn. Filed Mar. 25, 1929.



The facsimile signature, Dr. F. H. Williams, constituting a part of the drawing is the signature of Frederick H. Williams, M. D., of Bristol, Conn. The portrait depicted in the drawing is a facsimile representation of a photograph of Dr. Williams.

For a Neutralising Mixture Used in the Treatment of Sick Headache, Canker Sores, Constipation, Sour Stomach, Acid Dyspepsia, and Wind Colics; and a Cough and Croup Syrup Used for Colds, Asthma, Pleurisy, and Acute Catarrh.

Claims use since Oct. 18, 1928.

Ser. No. 283,647. F. O. KNOPPEL, doing business as Nectartone Laboratories, Chicago, Ill. Filed May 8, 1929.



A FOOD TONIC
NATURE'S CORRECTIVE
OF HUMAN ILLS

The words "A Food Tonic Nature's Corrective of Human Ills" are disclaimed apart from the mark as shown.

For Laxative Medicinal Tonic.

Claims use since Mar. 25, 1929.

Ser. No. 283,654. KENNETH R. BARNUM, doing business as Nightingale Laboratories, Kansas City, Mo. Filed May 8, 1929.

Nightingale

For Cleansing Cream, Massage Cream, Face Powder, Bath Powder, Astringent, Wrinkle Cream, Perfume, Shampoo, Rouge, Brilliantine, and Douche Powder.

Claims use since Jan. 1, 1929.

Ser. No. 284,690. ROBERT WYNNE OWEN, doing business as Owen's Nurol Company, Oakland, Calif. Filed May 27, 1929.

OWEN'S
NUROL

For Internal Medicinal Preparation Used in the Treatment of Neuritis, Rheumatism, Neuralgia, or Sciatica.

Claims use since Apr. 27, 1929.

Ser. No. 285,806. MINNIE BARKER, Chicago, Ill. Filed June 19, 1929.

MINNABAR
M
B
HAIR
PRODUCTS

No claim is made to the words "Hair Products."

For Hair Grower, Pressing Oil, and Shampoo.

Claims use since May 8, 1929.

Ser. No. 287,667. "LA COMPAGNIE DES PRODUITS EXKI LIMITEE" ("EXKI PRODUCTS COMPANY LIMITED"), Montreal, Quebec, Canada. Filed July 25, 1929.

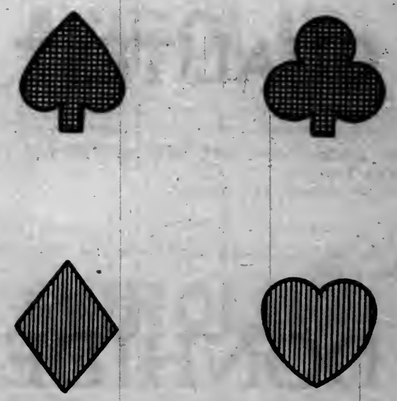
COMPAGNIE DES PRODUITS
EXKI
MONTREAL

Applicant disclaims apart from the mark as shown on the drawing filed with its statement the geographical name or term "Montreal."

For Perfumes, Preparations for Toilet, Hygiene, and Beauty—Namely, Perfumed Beauty Powder, Rice and Orris-Root Powder, Compact Face Powder, Rouge Compact, Lip Stick, Beauty Creams for the Skin, Perfumed Lotions, Astringent Lotion, Flower Toilet Waters, Liquid Brilliantine, Solid Brilliantine, Concentrated Perfumed Shampoo Detersif, Perfumed Shampoo, Nongreasy Hair-Curling Liquid (Contains No Grease Nor Oil), Hair Fixer Liquid (Contains Gum to Fix the Hair), Eau de Cologne, After-Shaving Lotion, Antidandruff Lotion, Genuine Cade Oil Shampoo, Hair Tonic Lotion, Perfumed and Disinfecting Solution to Purify the Atmosphere in Dwellings and Keep Out Moths from Clothes.

Claims use since July 10, 1926.

Ser. No. 288,822. STORFER LABORATORIES INC., New York, N. Y. Filed Aug. 21, 1929.



The drawing is lined for "black" and "red" to correspond to the colors of the aces of playing cards.

For Bath Salts.

Claims use since about December, 1928.

Ser. No. 289,341. DA-LEE CHEMICAL CO. INC., Baltimore, Md. Filed Sept. 5, 1929.

DA-LEE

For Tooth Paste and a Liquid Antiseptic Used for the Treatment of Pyorrhea Alveolaris (Riggs's Disease), Sore Throat, Cuts, Burns, Loose Teeth; Receding, Bleeding, or Spongy Gums; Tonsilitis, Ulcers, Bruises, Canker Sores, Fever Blisters, Catarrh or Cold in the Head, Vaginal Douche, Aftershaving Lotion, Scalds, Insect Bites, Sunburn, Poison Oak or Ivy, Hives, Body Deodorant, and Diseases of the Skin, and as a Mouth Wash.

Claims use since on or about Apr. 1, 1928.

Ser. No. 291,841. ROYAL MANUFACTURING COMPANY OF DUQUESNE, Duquesne, Pa. Filed Oct. 31, 1929.



For Deodorants, Insecticides, and Disinfectants.

Claims use since Aug. 7, 1929.

Ser. No. 292,142. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn. Filed Nov. 7, 1929.

QUALITEST

For Dental Cream; Beef, Iron, and Wine Tonic; and Aspirin Tablets.
Claims use since June 7, 1929.

Ser. No. 292,191. MORRIS ADLER, New York, N. Y. Filed Nov. 9, 1929.

DONHIDE

For Preparations for the Relief of Epilepsy and Nervousness.
Claims use since Apr. 1, 1929.

Ser. No. 292,813. LIONEL TRADING CO. INC., New York, N. Y. Filed Nov. 23, 1929.

QUAND

For Perfumes, Toilet Waters, Face Lotions, Face Creams, Face Powders, Rouges, and Lip Sticks.
Claims use since about Nov. 19, 1929.

Ser. No. 293,091. COTY, INC., Wilmington, Del., and New York, N. Y. Filed Nov. 30, 1929.

Coty

Applicant is the owner of registered Trade-Mark No. 180,540.
For Manicure Preparations—Namely, Liquid Polish, Polish Solvent, Paste Polish, Powder Polish, Liquid Cuticle Remover, Cuticle Cream, Cuticle Oil, and Nail White.
Claims use since Oct. 21, 1929.

Ser. No. 293,347. THE SYDNEY ROSS CO., Newark, N. J. Filed Dec. 6, 1929.



The drawing is not lined for color. The shape of the container is not claimed except in the precise relation and association in which the same appears herein. The female figure is fanciful. Applicant is the owner of registered Trade-Mark No. 148,718 covering the mark or word "Frescodor."
For Talcum Powder.
Claims use since Sept. 1, 1920.

Ser. No. 293,664. JUNE SMILA GREENE, Cleveland, Ohio. Filed Dec. 14, 1929.

JUNYA

For Bath Salts.
Claims use since May 28, 1926.

Ser. No. 293,858. WESTERN LABORATORIES, INC., Chicago, Ill. Filed Dec. 18, 1929.

Nannette

For Talcum Powder, Cleansing Cream, Tissue Cream, Vanishing Cream, Rouge, Rouge Refills, Face-Powder Refills, Lip Sticks, Perfumery, Toilet Water, Brilliantine, Hand and Face Lotion, and Astringent.
Claims use since Mar. 8, 1927.

Ser. No. 294,055. SALLY BRYAN, doing business as Denver Radium Service, Denver, Colo. Filed Dec. 26, 1929.

DRS

For Radium-Containing Ointment for Burns, Open Sores, Cuts, Wounds, Bruises, Inflamed Surfaces, Dressings, and Also for Rheumatic Pains, Lumbago, Neuralgic Pains, Noninfectious Skin Diseases, Throat and Bronchial Affections, Chronic or Acute Inflammations, Catarrh and Hemorrhoids, Also for Radium-Containing Solutions and Radium-Containing Tablets, Both to be Used as Directed by Physicians Where the Use of Radium is Indicated, Also for Suppositories.
Claims use since Jan. 1, 1917.

Ser. No. 294,118. BENJAMIN LEVIN, doing business as The Ideal Pharmacal Co., St. Albans, N. Y. Filed Dec. 27, 1929.

COCILANISE

For Sedative and Expectorant.
Claims use since January, 1927.

Ser. No. 294,149. E. M. E. CORPORATION, doing business as Kemiko Mfg. Co., Newark, N. J. Filed Dec. 28, 1929.



No claim is made to the words "Deodorant Cake" and/or the representation of the carton or container, apart from the mark shown on the drawing.
For Deodorants.
Claims use since Sept. 16, 1929.

Ser. No. 294,266. KASIMIR KOWALSKI, Chicago, Ill. Filed Dec. 31, 1929.

KAKA

The portrait shown in the drawing is that of the applicant. The applicant makes no claim to the exclusive use of the words "Hair Grower" apart from that appearing in the drawing.
For Hair Grower.
Claims use since Nov. 14, 1929.

Ser. No. 294,302. H. TH. BOHME A.-G., Chemnitz, Germany. Filed Jan. 2, 1930.

AVIROLIT

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, Smoothing Preparations, and Tanning Preparations.
Claims use since Sept. 2, 1929.

Ser. No. 294,303. H. TH. BOHME A.-G., Chemnitz, Germany. Filed Jan. 2, 1930.

AVIROLAT

For Chemical Dye Aids—Namely, Moistening Preparations, Thread and Fibre Protecting Preparations, Thread and Fibre Penetrating Preparations, Smoothing Preparations, and Tanning Preparations.
Claims use since Oct. 9, 1929.

Ser. No. 294,310. EDNA J. LEWIS, doing business as Lewis Laboratories, Hollywood, Calif., assignor to Georgia G. La Mark, Los Angeles, Calif. Filed Jan. 2, 1930.

SAFE-O

The word "Safe" is disclaimed apart from the mark as shown.
For Preparation in Powder Form Contained in Capsules for the Treatment of Leucorrhea and Vaginal Uterine Ulcers.
Claims use since Aug. 1, 1928.

Ser. No. 294,334. ARAB CHEMICAL AND ENGINEERING CORP., Gloucester City, N. J. Filed Jan. 8, 1930.

ARAB

For Compounds for Removing Scale, Rust, Corrosion, and the Like from Boilers of All Kinds, Condensers, Internal-Combustion Engines, Radiators, and Heating Systems Including Domestic Hot-Water and Steam Heating System Treatment.
Claims use since Nov. 22, 1929.

Ser. No. 294,478. LABORATOIRES G. BEYTOUT, SOCIETE A RESPONSABILITE LIMITEE, Paris, France. Filed Jan. 7, 1930.

KAOLINASE

For Medicine for the Treatment of Diseases of the Stomach.
Claims use since Nov. 15, 1929.

Ser. No. 294,479. LABORATOIRES G. BEYTOUT, SOCIETE A RESPONSABILITE LIMITEE, Paris, France. Filed Jan. 7, 1930.

AÉROPHAGYL

For Medicine for the Treatment of Aerophagy.
Claims use since Nov. 8, 1929.

Ser. No. 294,527. ETTA HECTOR, Brooklyn, N. Y. Filed Jan. 8, 1930.

THISTLE

For Liniment for the Treatment of Rheumatism, Bruises, Etc.
Claims use since on or about January, 1927.

Ser. No. 294,552. MILWAUKEE LUBRICANTS CO., Milwaukee, Wis. Filed Jan. 8, 1930.

FLYRID

For Liquid Fly Killer and Repellant for Horses and Livestock.
Claims use since March, 1929.

Ser. No. 294,811. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J. Filed Jan. 15, 1930.

MORDAUNT

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Aftershaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Mar. 5, 1915.

Ser. No. 294,820. OTIS CLAPP & SON, INC., Boston, Mass. Filed Jan. 15, 1930.

COREX

For Nasal Inhalants.
Claims use since Jan. 10, 1930.

Ser. No. 294,870. DEVICE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 17, 1930.

"ANHIDRICE"

For Carbon Dioxide in Solidified Forms, Mixtures, and Compounds.
Claims use since Aug. 12, 1929.

Ser. No. 294,956. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed Jan. 20, 1930.

Mlle France

For Face Powder.
Claims use since Jan. 3, 1930.

Ser. No. 295,084. SANDOZ CHEMICAL WORKS, INCORPORATED, New York, N. Y. Filed Jan. 22, 1930.

RADIACTINE

For Aniline Dyes.
Claims use since July 1, 1929.

Ser. No. 295,088. SOCIÉTÉ ANONYME M. NAEF & CIE., Geneva, Switzerland. Filed Jan. 22, 1930.

EXALTOLIDE

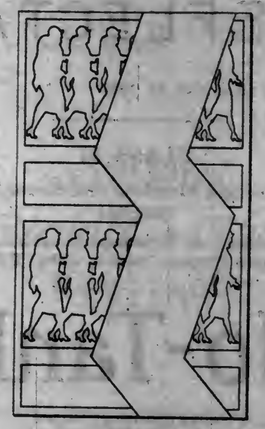
For Artificial and Synthetical Perfumes, Essential Oils.
Claims use since Apr. 30, 1928.

Ser. No. 295,107. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Jan. 22, 1930.

COMPRAL

For Analgesic.
Claims use since Jan. 6, 1930.

Ser. No. 295,130. OBEX CORPORATION, New York, N. Y. Filed Jan. 23, 1930.



For Tablets for Treating Obesity.
Claims use since about Dec. 10, 1929.

Ser. No. 295,131. OBEX CORPORATION, New York, N. Y. Filed Jan. 23, 1930.

OBALEX

For Tablets for Treating Obesity.
Claims use since about Dec. 10, 1929.

Ser. No. 295,195. E. R. SQUIBB & SONS, New York, N. Y. Filed Jan. 24, 1930.

NOVOPHEN

For Home and Hospital Antiseptic.
Claims use since Jan. 20, 1930.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 288,173. AMTORG TRADING CORPORATION, New York, N. Y. Filed Aug. 6, 1929.

SENTINEL

For Matches.
Claims use since about June 1, 1929.

Ser. No. 294,207. JOAO M. DA ROCHA, doing business as J. M. da Rocha Co., Firecracker Division, San Francisco, Calif. Filed Dec. 30, 1929.



No claim is made to the word "Brand" or to the representation of firecrackers apart from the mark as shown. The Chinese words appearing at the top of the trademark is a proper name and can not be translated.
For Firecrackers and Fireworks.
Claims use since Mar. 1, 1923.

CLASS 11

Inks and Inking Materials

Ser. No. 294,279. H. M. STORMS COMPANY, Brooklyn, N. Y. Filed Dec. 31, 1929.

Stormtex

For Typewriter Ribbons and Carbon Papers.
Claims use since May, 1926.

CLASS 12

Construction Materials

Ser. No. 275,868. THE BOSTWICK STEEL LATH COMPANY, Niles, Ohio. Filed Nov. 26, 1928.

THE NEW SUPER Bostwick TRUSS LOOP LATH

No claim is made to the words "The New Truss Loop Lath" and the name "Bostwick" apart from the mark as shown on the drawing.
For Metal Lath.
Claims use since Nov. 7, 1928.

Ser. No. 278,796. THE JOHN G. LORENZ CORPORATION, Philadelphia, Pa. Filed Feb. 2, 1929.

LORCO

For Roofing and Siding, Eaves Trough, Conductor Pipe, Elbows, Shoes, Metallic Ceilings, Metal Lath, Corner Beading, and Channels.
Claims use since February, 1927.

Ser. No. 286,121. LAWRENCE PORTLAND CEMENT COMPANY, Northampton, Pa. Filed June 25, 1929.

DRAGON

For Building Cement.
Claims use since Mar. 10, 1928.

Ser. No. 286,346. UNIVERSAL PORTLAND CEMENT COMPANY, Chicago, Ill. Filed June 28, 1929.

Universal Portland Cement

Universal Cement

Universal Portland Cement Co.
Universal

Concrete for Permanence
Universal
Portland Cement

Universal Cement

The applicant hereby disclaims the words "Portland Cement Concrete for Permanence" apart from the mark shown.
For Building Cement.
Claims use since Apr. 1, 1929.

Ser. No. 293,460. AMERICAN ENCAUSTIC TILING COMPANY, LTD., New York, N. Y. Filed Dec. 10, 1929.

REFLECTA

For Tiles.
Claims use since Nov. 12, 1929.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 283,295. IRA I. NELSON, doing business as The Stack Heater Company, Boston, Mass. Filed Apr. 30, 1929.

No-Tank

For Reducing Valves and Relief Valves.
Claims use since Oct. 20, 1928.

Ser. No. 283,474. THE VOLLRATH COMPANY, Sheboygan, Wis. Filed May 3, 1929.

The lining on the drawing does not indicate any specific colors.
For Enameled-Metal Ware—Namely, Enameled-Metal Boilers, Pots, Pans, Kettles, Basins, Percolators, Trays, Bowls, Strainers, Molds, Refrigerator Dishes, Butter Dishes, Soap Dishes, and Jugs.
Claims use since Apr. 22, 1929.

Ser. No. 287,891. SERVICE EQUIPMENT COMPANY, South Gate, Calif. Filed July 30, 1929.

U

For Air and Water Vehicle Service Towers, Tire and Inflating Valves.
Claims use since Jan. 1, 1927.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 279,309. BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed Feb. 14, 1929. Under Section 5b of the act of 1905, as amended in 1920.

BETHLEHEM
Stainless-Clad
CASTINGS

Applicant is the owner of registration No. 151,430, covering the word "Bethlehem," which was effected under the 10-year proviso of the act of Feb. 20, 1905. No claim is made to the exclusive use of the words "Stainless, Clad," and "Castings" apart from and except in association with the rest of the features shown in the drawing.
For Steel Castings.
Claims use since Dec. 27, 1928.

Ser. No. 288,310. AMERICAN PLATINUM WORKS, Newark, N. J. Filed Aug. 9, 1929.

Platos

For Platinum, Osmium, and Ruthenium Metals, and Platinum, Osmium, and Ruthenium Sheets and Plates.
Claims use since Apr. 26, 1929.

CLASS 15

Oils and Greases

Ser. No. 293,653. APEX MOTOR FUEL COMPANY, Chicago, Ill. Filed Dec. 14, 1929.

PENN-VISS

For Motor-Lubricating Oil.
Claims use since Mar. 23, 1927.

CLASS 16

Paints and Painters' Materials

Ser. No. 290,714. MCALEER MANUFACTURING COMPANY, Detroit, Mich. Filed Oct. 5, 1929.



The words "Polish and Cleaner" are hereby disclaimed apart from the mark as shown. The said trade-mark consists of the word "McAleer's" in conjunction with the words "Polish and Cleaner" in a bracketed space having a yellow background in a design consisting of alternate red and black lines. Representation of a container is hereby disclaimed apart from the mark shown by the drawing.
For a Polishing and Cleaning Compound for Lacquer Finishes.
Claims use since on or about September, 1926.

Ser. No. 294,318. PYRO PROOF PRODUCTS COMPANY, Everett, Wash. Filed Jan. 2, 1930.

PYROOF

For Ready-Mixed Paints.
Claims use since Dec. 1, 1928.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 289,360. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill. Filed Sept. 5, 1929.

MARATHON

For Tennis Rackets, Golf Clubs, Striking Bags, Footballs, Basket Balls, Volley Balls, Soccer Balls, Baseballs, Baseball Gloves, Baseball Mitts, Baseball Bats, Indoor and Playground Balls, Indoor-Baseball Bats, Ice Skates, and Skis.
Claims use since summer of 1915.

Ser. No. 293,224. L. KLEIN, INC., Chicago, Ill. Filed Dec. 4, 1929.

FLYING ARROW

For Ice Skates.
Claims use since Nov. 15, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 286,098. ALUMINUM INDUSTRIES, INC., Cincinnati, Ohio. Filed June 25, 1929.

DIAMOND

For Piston Pins, Engine Valves, Machinery Shafts, Mufflers, Machinery Bushings, Oil and Water Pumps, Impellers, and Water-Pump Assemblies for Engines.
Claims use since on or about February, 1923.

Ser. No. 288,674. E. H. TITCHENER & COMPANY, Binghamton, N. Y. Filed Aug. 17, 1929.

"Staplit"

For Barrel and Keg Nailing Machines.
Claims use since June 1, 1929.

Ser. No. 290,536. ALLEN-OLIVER CO., Los Angeles, Calif. Filed Oct. 3, 1929.

AL-N-OL

For Oil-Well Tools—Namely, Drilling Bits, Core Drills, Automatic Catheads for Draw Works, Draw-Works Brakes, Sheaveless Cathead, Hydraulic Hoist for Counterbalance, Torque Control, and Hydraulic Pumps for Extracting Cores for Core Barrels.
Claims use since Sept. 30, 1929.

Ser. No. 290,794. PORTABLE ELECTRIC TOOL COMPANY, Fitchburg, Mass. Filed Oct. 8, 1929.

MCUTLTI

For Small Portable Power-Driven Cutting and Sawing Machines Especially Adapted for Sawing and Cutting Such Materials Known as Plaster Board, Composition Boards, Plaster, Wood, Paper, Cardboard, Linoleums, and Similar Materials.
Claims use since July, 1929.

Ser. No. 291,092. ISOTHERMOS CORPORATION OF AMERICA, New York, N. Y. Filed Oct. 15, 1929.

ISOTHERMOS

For Automatic Lubricators and Parts Thereof.
Claims use since on or about Aug. 16, 1929.

Ser. No. 291,602. ANIMAL TRAP COMPANY OF AMERICA, Lititz, Pa. Filed Oct. 26, 1929.

TRUMP

For Garden Tools—Namely, Trowels, Forks, Weeders, Spudders, and Transplanters Sold Separately and in Sets.
Claims use since Sept. 28, 1929.

Ser. No. 292,575. THE BUTCHER POLISH CO., Boston, Mass. Filed Nov. 19, 1929.

EVERYDAY

For Floor Waxing and Polishing Hand Tools.
Claims use since November, 1928.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 292,668. HOEFLING BROS. INC., Chico, Calif. Filed Nov. 21, 1929.

OISCREENAIR

For Portable Cleaning and Treating Machines for Seed and Grain.
Claims use since May 24, 1929.

Ser. No. 292,669. HOEFLING BROS. INC., Chico, Calif. Filed Nov. 21, 1929.



For Portable Seed and Grain Cleaning and Treating Machines.
Claims use since May 24, 1929.

Ser. No. 292,782. BAASH-ROSS TOOL COMPANY, INCORPORATED, Los Angeles, Calif. Filed Nov. 23, 1929.

HI-DECK

For Crown Blocks for Gas and Oil Drilling Derricks.
Claims use since June 17, 1929.

Ser. No. 292,958. WARREN-ALLEN CARPET COMPANY, Boston, Mass. Filed Nov. 26, 1929.

WACCO TRU-SHOW CARPET DISPLAY
CHANGES A SAMPLE INTO A ROOM

The exclusive right to the use of the words "Carpet Display" and "Changes a Sample into a Room" being hereby disclaimed except in connection with the trade-mark shown in the drawing.
For Sets of Folding Baseboard Sections and Cabinets Therefor for Use in Displaying Floor-Covering Effects.
Claims use since Oct. 25, 1929.

Ser. No. 293,012. J. W. SPEAR & SONS, INC., New York, N. Y. Filed Nov. 27, 1929.

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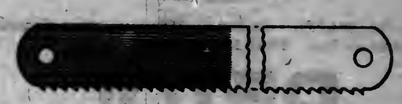
For Hand Knitting Devices.
Claims use since Oct. 30, 1929.

Ser. No. 293,655. E. C. ATKINS AND COMPANY, Indianapolis, Ind. Filed Dec. 14, 1929.

A-Z

For Circular Saws and Circular Saw Sets.
Claims use since June 1, 1929.

Ser. No. 293,815. E. C. ATKINS AND COMPANY, Indianapolis, Ind. Filed Dec. 18, 1929.



The trade-mark consists of coloring one end of the hack-saw blades with blue. The drawing shows a portion of the hack-saw blade lined to indicate the color blue. No claim is made to the representation of the hack-saw blade aside from the mark shown.
For Hack-Saw Blades.
Claims use since Dec. 1, 1927.

Ser. No. 293,823. FAIRCHILD AVIATION CORPORATION, New York, N. Y. Filed Dec. 18, 1929.

FA

FAIRCHILD

The surname "Fairchild" as applied to the mark is disclaimed.
For Internal-Combustion Engines.
Claims use since Mar. 3, 1928.

Ser. No. 293,824. FAIRCHILD AVIATION CORPORATION, New York, N. Y. Filed Dec. 18, 1929.



The lining on the drawing is for the purpose of shading only and does not represent colors.
For Internal-Combustion Engines.
Claims use since Mar. 18, 1928.

Ser. No. 294,034. GEARENCH MANUFACTURING COMPANY, Houston, Tex. Filed Dec. 2, 1929.

PETOL

For Tongs.
Claims use since June 9, 1928.

Ser. No. 294,132. ALWARD-ANDERSON-SOUTHARD CO., Chicago, Ill. Filed Dec. 28, 1929.



The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.
For Canvas Carriers for Harvesting Machines.
Claims use since Jan. 1, 1909.

Ser. No. 294,325. THE VLCHEK TOOL COMPANY, Cleveland, Ohio. Filed Jan. 2, 1930.

DURA-DRIVER

Applicant does not claim herein the exclusive right to the word "Driver" apart from the mark as shown.
For Screw Drivers.
Claims use since on or about Dec. 1, 1929.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 290,260. KNY-SCHEERER CORPORATION, New York, N. Y. Filed Sept. 26, 1929.

ACCURO

For Glass Graduates, Glass Measuring Cylinders, and Glass Pipettes.
Claims use since Apr. 1, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 235,739. THE KRONHEIM FURNITURE MANUFACTURING COMPANY, Cleveland, Ohio. Filed Aug. 9, 1926.

MasterBuilt

For Upholstered Furniture, Particularly Davenports, Chairs, Rockers, Couches, and Footstools.
Claims use since Nov. 16, 1922.

Ser. No. 262,459. THE J. C. HIRSCHMAN COMPANY, Indianapolis, Ind. Filed Mar. 1, 1928.



For Mattresses for Beds.
Claims use since Oct. 29, 1927.

Ser. No. 292,010. LOUIS M. REHTHALER, Battle Creek, Mich. Filed Nov. 4, 1929.



"Bath-Bed" is disclaimed apart from the drawing as shown.
For Canopy Beds.
Claims use since July 18, 1929.

Ser. No. 292,531. HENKEL EDGE-LITE CORPORATION, Chicago, Ill. Filed Nov. 18, 1929.

EDGE-LITE

For Bathroom Cabinets and Mirrors.
Claims use since Jan. 1, 1926.

Ser. No. 293,046. THE J. C. HIRSCHMAN COMPANY, Indianapolis, Ind. Filed Nov. 29, 1929.

MASTER-BILT

For Mattresses for Beds.
Claims use since Oct. 29, 1927.

Ser. No. 295,061. ROBERT J. SIMONS, Springfield, Mass. Filed Jan. 21, 1930.

Electrokitchenette

For Kitchen Cabinets.
Claims use since Jan. 9, 1930.

CLASS 33

Glassware

Ser. No. 294,238. OWENS-ILLINOIS GLASS COMPANY, Toledo, Ohio. Filed Dec. 30, 1929.



No claim is made to the words "Electro-Tempered" apart from the mark shown.
For Bottles, Jars, Jugs, Decanters, and Cruets, All Made of Glass.
Claims use since Oct. 1, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 286,520. TAWLKS GRATE BAR COMPANY, Everett, Wash. Filed July 2, 1929.



For Grate Bars.
Claims use since Mar. 20, 1928.

Ser. No. 293,400. ART METAL WORKS, INC., Newark, N. J. Filed Dec. 9, 1929.

"NEW YORKER"

For Smokers' Pyrophoric Lighters and Bases Therefor.
Claims use since about June, 1929.

Ser. No. 294,601. THERMO SERVICE, INC., New York, N. Y. Filed Jan. 9, 1930.



For Heating Boilers.
Claims use since Dec. 13, 1927.

CLASS 35

Belting, Hose, Machinery Packing, and Nonmetallic Tires

Ser. No. 289,712. FRANCIS L. DIETERICH, New York, N. Y. Filed Sept. 18, 1929.

FIBRELASTIC

For Packing Gaskets.
Claims use since July 1, 1928.

Ser. No. 293,068. PIONEER RUBBER MILLS, San Francisco, Calif. Filed Nov. 29, 1929.

SKOOKUM

For Rubber and Fabric Belting, Rubber Hose, and Piston Packing.
Claims use since July, 1908.

Ser. No. 295,172. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

RESCUE

For Fire Hose.
Claims use since June, 1910.

CLASS 37

Paper and Stationery

Ser. No. 287,024. STRATHMORE PAPER COMPANY, Mittineague, Mass. Filed July 12, 1929.

Strathmore Script

Applicant disclaims an exclusive right to the word "Script" apart from the mark shown in the drawing. Applicant is the owner of registration No. 92,100, under the 10-year proviso.
For Writing and Printing Paper and Mailing Envelopes.
Claims use since Dec. 14, 1921.

CLASS 38

Prints and Publications

Ser. No. 276,673. ROBERT J. YOUNG, Everett, Wash. Filed Dec. 13, 1928.

SUNSHINE FINISH

The words "Sunshine Finish" are disclaimed apart from the mark shown.
For Photographic Prints.
Claims use since Aug. 1, 1928.

Ser. No. 284,164. ALBERT H. CARTER, Chicago, Ill. Filed May 17, 1929.

CARMAC'S

For Horse and Other Animal Rating Tables Published Periodically.
Claims use since Jan. 23, 1928.

Ser. No. 291,196. AIR TRAVEL NEWS CORPORATION, Detroit, Mich. Filed Oct. 18, 1929.

Air Travel News

For Periodical.
Claims use since August, 1927.

Ser. No. 293,439. NATIONAL WEEKLIES, INC., Winona, Minn. Filed Dec. 9, 1929.

Chicagoer Herold

For Weekly Publication.
Claims use since Dec. 24, 1925.

Ser. No. 293,743. NATIONAL TOURIST HOME GUILD, Auburn, N. Y. Filed Dec. 16, 1929.



For Periodical Publication.
Claims use since Oct. 7, 1929.

Ser. No. 294,131. SYDNEY H. GETTELMAN, doing business as Market Review Publishing Company, Chicago, Ill. Filed Dec. 26, 1929.

THE STOCK MARKET REVIEW

For Periodical Publication.
Claims use since May 2, 1929.

Ser. No. 294,281. THE SPERRY & HUTCHINSON COMPANY, New York, N. Y. Filed Dec. 31, 1929.



No exclusive right is claimed for the words "Legal" and "Disconnt Stamp" except when so used as to constitute unfair competition.
For Trading Stamps.
Claims use since Dec. 2, 1929.

Ser. No. 294,381. ASSOCIATED DRY GOODS CORPORATION OF NEW YORK, New York, N. Y. Filed Jan. 4, 1930.

fashions and promotions

For Publications Issued at Regular and Irregular Intervals.
Claims use since on or about Nov. 15, 1929.

Ser. No. 294,422. GRAPHIC ARTS CORPORATION, Minneapolis, Minn. Filed Jan. 6, 1930.

ARTISTS' MODELS NOTEBOOK

For Magazines Published Every Month.
Claims use since Nov. 1, 1929.

Ser. No. 294,700. WETTERSOL DYESTUFF CORPORATION, New York, N. Y. Filed Jan. 11, 1930.



For Publication Issued Bimonthly and at Other Intervals.
Claims use since Sept. 16, 1929.

Ser. No. 294,712. DAILY LOCAL NEWS COMPANY, West Chester, Pa. Filed Jan. 13, 1930.

DAILY LOCAL NEWS.

For Daily Newspaper.
Claims use since Nov. 19, 1872.

Ser. No. 294,717. ENTERPRISE PUBLISHING CO., Brockton, Mass. Filed Jan. 13, 1930.

Brockton Enterprise.

For Newspaper Published Daily (Except Sundays and Holidays).
Claims use since 1880.

Ser. No. 294,739. THE PHILADELPHIA INQUIRER CO., Philadelphia, Pa. Filed Jan. 13, 1930.

The Philadelphia Inquirer

For Daily Newspaper.
Claims use since March, 1889.

Ser. No. 294,766. THE EDITOR & PUBLISHER CO., New York, N. Y. Filed Jan. 14, 1930.

Newspaperdom

For Newspaper Journals Issued from Time to Time.
Claims use since 1888.

Ser. No. 294,818. NATIONAL LUMBERMAN PUBLISHING CO., INC., St. Louis, Mo. Filed Jan. 15, 1930.

National Lumberman

For Periodical.
Claims use since April, 1929.

Ser. No. 294,836. AMERICAN PAINT JOURNAL COMPANY, St. Louis, Mo. Filed Jan. 16, 1930.

American Paint and Oil Dealer

For Periodicals.
Claims use since September, 1908.

Ser. No. 294,837. AMERICAN PAINT JOURNAL COMPANY, St. Louis, Mo. Filed Jan. 16, 1930.

AMERICAN PAINT JOURNAL

For Periodicals.
Claims use since Nov. 6, 1916.

Ser. No. 294,999. SULLIVAN MACHINERY COMPANY, Boston, Mass., and Chicago, Ill. Filed Jan. 20, 1930.

Engineering Graphic

For Periodical Publications.
Claims use since early in November, 1929.

Ser. No. 295,009. UNITED CHRISTIAN MISSIONARY SOCIETY, Indianapolis, Ind. Filed Jan. 21, 1930.

WORLD CALL

For Periodical Published Monthly.
Claims use since Jan. 1, 1919.

Ser. No. 295,048. PHI KAPPA SIGMA, Philadelphia, Pa. Filed Jan. 21, 1930.

PHI KAPPA SIGMA

NEWS LETTER

For Periodical.
Claims use since Oct. 19, 1854.

Ser. No. 295,117. THE CROWELL PUBLISHING COMPANY, New York, N. Y. Filed Jan. 23, 1930.

THE Country Home

For Monthly Magazine.
Claims use since 1916.

Ser. No. 295,150. CHILTON CLASS JOURNAL COMPANY, Philadelphia, Pa. Filed Jan. 24, 1930.

CHILTON AUTOMOTIVE MULTI-GUIDE

For Publications Issued from Time to Time Containing Information and Data for the Automobile Trade.
Claims use since Dec. 28, 1929.

Ser. No. 295,151. CHILTON CLASS JOURNAL COMPANY, Philadelphia, Pa. Filed Jan. 24, 1930.

MULTI-GUIDE

For Publications Issued from Time to Time.
Claims use since Jan. 3, 1930.

CLASS 39

Clothing

Ser. No. 273,130. L. H. BAKER, Evansville, Ind. Filed Sept. 29, 1928.

La Belle

For Men's Overalls and Work Shirts.
Claims use since Aug. 19, 1926.

Ser. No. 283,220. RISK, MOODY & ROBINSON, INC., New York, N. Y. Filed Apr. 29, 1929.

CLUBMAN
COOL COMFORT

No claim is made to the words "Cool Comfort" apart from the mark shown on the drawing.
For Men's Underwear — Namely, Undershirts, Union Suits, and Running Pants Made of Knitted, Rayon, Cotton Fabrics; Knitted Sweaters and Hosiery.
Claims use since September, 1928.

Ser. No. 287,545. ROSENAU BROS. INC., Philadelphia, Pa. Filed July 23, 1929.

cinderella frocks

Applicant disclaims the word "Frocks" apart from the mark shown in the drawing.
For Children's Dresses.
Claims use since June 24, 1929.

Ser. No. 288,264. WOODBURY SHOE MFG. CO., Derry, N. H. Filed Aug. 7, 1929.

CHECK-O Interwoven

Applicant disclaims exclusive rights to the word "Interwoven" apart from the mark as shown in the drawing.
For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Rubber, Canvas, or Textile Material.
Claims use since May 15, 1929.

Ser. No. 289,173. BEDFORD JOHNSON COMPANY, INCORPORATED, New York, N. Y. Filed Aug. 30, 1929.

TAYLOR'S Customized TROUSERS

The word "Trousers" is disclaimed apart from the mark shown.
For Men's Dress Trousers.
Claims use since May 1, 1929.

Ser. No. 289,249. POLLY SHOPPE, INC., New Orleans, La. Filed Aug. 31, 1929.

Polly Shoppe

For Ladies' Wearing Apparel—Namely, Skirts for Outer Wear, Coats, Suits, Fur Pieces, Fur Coats, Corsets, and Cotton, Suede, and Kid Gloves.
Claims use since Feb. 1, 1928.

Ser. No. 289,502. BUTLER BROTHERS, Chicago, Ill. Filed Sept. 9, 1929.

La Lure

For Women's Hosiery.
Claims use since June 1, 1929.

Ser. No. 292,117. THE NO NAME HAT COMPANY, Danbury, Conn. and New York, N. Y. Filed Nov. 7, 1929.

IXL QUALITY NO NAME HAT CO.

Applicant disclaims the right to the exclusive use of the word "Quality" apart from the mark shown.
For Hats for Men and Children.
Claims use since 1893.

Ser. No. 293,173. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Dec. 3, 1929.

BOSS

DOLLAR BILL

No claim is made herein broadly to the words "Dollar Bill" apart from mark as illustrated on accompanying drawing.
For Work Gloves, Mittens, and Gauntlets Made of Fabric or Leather and Fabric.
Claims use since Nov. 19, 1929.

Ser. No. 293,207. BELLMORE MANUFACTURING COMPANY, Gainesville, Ga. Filed Dec. 4, 1929.

ZOOMER

For Overalls, Overall Union Suits, Work Shirts, Pants.
Claims use since Nov. 21, 1929.

Ser. No. 293,222. L. KLEIN, INC., Chicago, Ill. Filed Dec. 4, 1929.



For Ladies', Shoes, the Shoes Being Made of Leather, Rubber, Reptile Skins, Fabrics, and Combinations Thereof.
Claims use since Nov. 1, 1929.

Ser. No. 293,223. L. KLEIN, INC., Chicago, Ill. Filed Dec. 4, 1929.

Murray & Landon Clothes

The word "Clothes" of the mark is disclaimed apart from the mark as shown in the drawing.
For Men's Suits.
Claims use since Sept. 15, 1929.

Ser. No. 293,376. RICHARD S. LILIENTHAL, New York, N. Y. Filed Dec. 7, 1929.

Liltex

For Cotton Knit, Woolen Knit, Rayon, Glove Silk, and Nainsook Underwear for Men, Women, and Children.
Claims use since about December, 1926.

Ser. No. 293,387. JOHN B. STETSON COMPANY, Philadelphia, Pa. Filed Dec. 7, 1929. Under 10-year proviso.

JOHN B. STETSON COMPANY

For Men's and Boys' Felt and Straw Hats and Cloth Caps, Men's Silk Hats, and Felt and Straw Hats for Women and Children.
Claims use since Jan. 1, 1866.

Ser. No. 293,571. JOHN CAVANAGH, LTD., New York, N. Y. Filed Dec. 12, 1929.

Cavanagh



No claim is made to the exclusive right to use the expression "247 Park Avenue, New York."
For Headwear for Men and Women—Namely, Hats and Caps; Gloves of Fabric and of Fabric and Leather, Neckties and Overcoats for Men.
Claims use since Dec. 1, 1928.

Ser. No. 293,580. HODSHON-BERG, INCORPORATED, Danbury, Conn., and New York, N. Y. Filed Dec. 12, 1929.



No claim being made to the exclusive right to use the words "Made by" and "New York".
For Caps and Hats for Men.
Claims use since Sept. 27, 1929, and since 1898 on the word "Hodshon".

Ser. No. 293,693. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Dec. 14, 1929.

HI-KING

For Women's Shoes Made of Leather, Rubber, and Fabric and Combinations of the Same.
Claims use since Sept. 1, 1928.

Ser. No. 293,762. SALVATOR BONAN, New York, N. Y. Filed Dec. 7, 1929.



The words "Give Life to the Tie" and the word "Thred" are disclaimed apart from the mark as shown.
For Cravats.
Claims use since Dec. 2, 1929.

Ser. No. 294,045. JEAN ADAMS INC., New York, N. Y. Filed Dec. 26, 1929.

JADA

For Ladies' Dresses, Blouses, Hats, Skirts for Outer Wear, Pajamas, Sweaters, and Scarfs.
Claims use since Oct. 1, 1929.

Ser. No. 294,046. JEAN ADAMS INC., New York, N. Y. Filed Dec. 26, 1929.

TOURIST

For Ladies' Dresses, Blouses, Hats, Skirts for Outer Wear, Pajamas, Sweaters, and Scarfs.
Claims use since Oct. 1, 1929.

Ser. No. 294,061. DEWEY & ALMY CHEMICAL COMPANY, North Cambridge, Mass. Filed Dec. 26, 1929.

DAREX

For Outer Soles, Inner Soles, Mid Soles, Heels, Counters, Box Toes for Boots and Shoes.
Claims use since Dec. 7, 1929.

Ser. No. 294,117. LADY GODIVA HATS, INC., New York, N. Y. Filed Dec. 27, 1929.

GODIVA HAT FORM

The word "Hat" is disclaimed apart from the mark as shown.
For Ladies' Hats.
Claims use since Dec. 18, 1929.

Ser. No. 294,182. SABINE GARMENT COMPANY, Beaumont, Tex. Filed Dec. 28, 1929.

Sabine Maid

For Ladies' and Children's Dresses.
Claims use since Nov. 1, 1929.

Ser. No. 294,183. SABINE GARMENT COMPANY, Beaumont, Tex. Filed Dec. 28, 1929.

Southern Beauty

For Ladies' and Children's Dresses.
Claims use since Nov. 1, 1929.

Ser. No. 294,671. HOLEPROOF HOSIERY CO., Milwaukee, Wis. Filed Jan. 11, 1930.

COMFOSEAM

For Hosiery.
Claims use since Jan. 2, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 293,656. BOLTA RUBBER COMPANY, Lawrence, Mass. Filed Dec. 14, 1929.

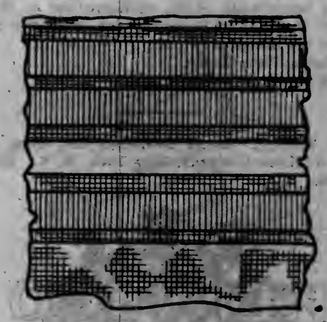
ACME

For Combs Except Those That are Made of Precious Metals.
Claims use since Nov. 25, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 292,842. MORRIS M. SCHER, Baltimore, Md. Filed Nov. 12, 1929.



No claim is made to the representation of the goods. The trade-mark comprises a series of four parallel stripes woven in the selvage of the cloth and comprising three red stripes and a single white stripe.
For Woolen Suiting in Piece.
Claims use since July, 1926.

Ser. No. 293,132. C. K. EAGLE & CO., INC., Shamokin, Pa., and New York, N. Y. Filed Dec. 2, 1929.

C. K. EAGLE & CO. INC.

For Piece Goods of Silk or of Silk Mixed with Cotton, Wool, Rayon, or Celanese.
Claims use since Oct. 28, 1929.

Ser. No. 294,170. NINETY SIX COTTON MILL, Ninety Six, S. C. Filed Dec. 28, 1929.

Ninety-Six
Multi-Width

The drawing is lined to indicate orange and gold, and no claim being made to the exclusive use of the words "Tobacco Cloth Multi-Width" apart from the mark as shown in the drawing.
For Cotton Piece Goods.
Claims use since Nov. 27, 1929.

Ser. No. 294,535. KLINE BROTHERS CO., doing business as J. G. Kline Company, New York, N. Y. Filed Jan. 8, 1930.

KLINECO

For Cotton and Linen Bed Sheets, Sheeting, Wide Sheeting, Pillowcases, and Muslin Pillow Tubing.
Claims use since June, 1929.

Ser. No. 294,602. E. F. TIMME & SON, New York, N. Y. Filed Jan. 9, 1930.

Timme

Krimombre

For Pile Fabrics in the Piece.
Claims use since July 3, 1929.

Ser. No. 295,111. ARTLOOM CORPORATION, ARTLOOM RUG MILLS DIVISION, Philadelphia, Pa. Filed Jan. 23, 1930.

ALLAHSTAN

The face of the rug is made of wool and the back contains wool, cotton, and jute.
For Seamless Rugs for Floor-Covering Purposes.
Claims use since Oct. 1, 1929.

Ser. No. 295,181. A. D. JUILLIARD & CO., INC., New York, N. Y. Filed Jan. 24, 1930.

HEATHEROY

For Printed Corduroys in the Piece.
Claims use since Jan. 22, 1930.

CLASS 43

Thread and Yarn

Ser. No. 294,641. LAMICEL PRODUCTS INC., New York, N. Y. Filed Jan. 10, 1930.

LAMICEL

For Laminated Yarns.
Claims use since Dec. 27, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 242,593. LEON INGRASSIA, doing business as I. Leon Company, New York, N. Y. Filed Jan. 10, 1927.

Leon Oil

No claim is made to the exclusive use of the word "Oil" apart from the mark as shown.
For Pads for Use in Permanent-Hair-Waving Machines for Pomades.
Claims use since about Nov. 15, 1921.

Ser. No. 288,847. DALLEY WEAVER COMPANY, INC., Birmingham, Ala. Filed Aug. 22, 1929.

Elite

For Chemically-Saturated Pad for Use in Permanent Waving of Hair.
Claims use since about April, 1928.

Ser. No. 289,954. AMERICAN HECOLITE DENTURE CORPORATION, Portland, Oreg. Filed Sept. 19, 1929.

Hecolite

For Dental Plastic Materials Which May be Treated and Formed When Heated and Used for Manufacturing in Dental Prosthesis, and Artificial Dentures, Artificial-Denture Flasks and Molds.
Claims use since Oct. 11, 1926.

Ser. No. 293,464. FRANZ B. BURROWS, doing business as Western Dental Products Company, Los Angeles, Calif. Filed Dec. 10, 1929.

SMOOTH-MIX

The term "Smooth-Mix" is disclaimed apart from the mark as shown.
For Dental Compound.
Claims use since February, 1928.

Ser. No. 294,447. JACOB TANENBAUM, Brooklyn, N. Y. Filed Jan. 6, 1930.

Helené

For Permanent-Hair-Waving Pads.
Claims use since Nov. 1, 1928.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 272,197. CHARLES P. BYRD, Atlanta, Ga. Filed Sept. 11, 1928.

Z-RO

The shading on the drawing denotes the color red.
For Nonalcoholic, Noncereal, Maltless Beverage in the Form of a Soft-Drink Syrup.
Claims use since Aug. 28, 1928.

Ser. No. 285,339. CURRAN & JOYCE COMPANY, INCORPORATED, doing business as Triplepac Bottlers, Lawrence, Mass. Filed June 10, 1929.

Triplepac

For Ginger Ale and Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Mar. 1, 1929.

Ser. No. 287,814. GENERAL FRUIT PACKING CORPORATION, San Francisco, Calif. Filed July 29, 1929.

NEZORF SEPARG

For Grape Products—Namely, Grape Juice and Frozen Grape Beverages.
Claims use since July 1, 1929.

Ser. No. 292,876. HOLLYWOOD DRY CORPORATION, doing business as Puritybonded Products, Inc., Los Angeles, Calif. Filed Nov. 25, 1929.

Puritybonded

For Extracts, Flavorings, Concentrates, Fruit Colorings, Syrups, and Crushed Fruits for Making Nonalcoholic, Noncereal, Maltless Beverages and Fountain Syrups.
Claims use since July 10, 1929.

Ser. No. 293,965. JOHN L. FRANKLIN, doing business as The Cordova Company, Atlanta, Ga. Filed Dec. 21, 1929.



For Ginger Ale.
Claims use since Oct. 10, 1929.

Ser. No. 294,962. ELCO DISTRIBUTING COMPANY, Chicago, Ill. Filed Jan. 20, 1930.

33

For Nonalcoholic, Noncereal, Maltless Carbonated Beverages and Syrups and Extracts for Making the Same.
Claims use since Sept. 1, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 260,456. THOMAS E. MCKNIGHT, Lindale, Tex. Filed Jan. 21, 1928.

SOUTHERN BEAUTY

For Fresh Sweet Potatoes.
Claims use since Oct. 21, 1927.

Ser. No. 265,491. NATIONAL GROCER COMPANY, Detroit, Mich. Filed Apr. 27, 1928.

R GROCER

For Canned Fruits and Vegetables; Canned, Dried, Pickled, and Otherwise Cured and Preserved Fish; Canned Oysters, Clams, Crab Meat, Lobsters, Shrimp, and Sardines; Canned and Potted Fowl, Canned Soups and Broths, Canned Mushrooms, Canned Sauerkraut, Canned Pork and Beans, Condensed and Evaporated Milk and Cream, Tea, Coffee, Chicory, Chocolate, Cocoa, Spices and Seasoning Herbs, Food-Flavoring Extracts and Essences, Dried and Evaporated Fruits and Vegetables, Macaroni, Spaghetti, Vermicelli, Macaroni Paste, and Nudelin, Pearl Barley, Sago, Cereal Breakfast Foods, Dried Navy Beans, Farina, Tapioca, Canned Hominy, Dried Lentils, Honey, Sugar, Sorghum and Molasses, Table Syrup, Pickles, Chow Chow, Tomato Catsup, Horse-Radish; Table Sauces for Use with Meats, Fish, and Soups; Mustard and Prepared Mustard, Vinegar, Salad Dressing, Butter, Cheese, Shredded Cocoanut, Fruit and Vegetable Preserves and Jelly, Gelatin, Candy, Candied Peels, Birdseed, Poultry Food, Fresh Citrous Fruits, Grapes, Melons, Bananas, Pineapples, Dates and Dried and Preserved Figs, Cornstarch, Yeast, Rice, Rolled Oats, Corn Meal, Wheat Flour, Graham Flour, Buckwheat Flour, Mincemeat, Olives, Candied and Salted Nuts and Nuts in Their Natural State, Cake, Rye Flour, and Bread.
Claims use since about Apr. 18, 1928.

Ser. No. 277,641. SHEBA PISTACHIO CORPORATION, Paterson, N. J. Filed Jan. 5, 1929.



The lining for color shown on the drawing is disclaimed. No claim is made to the words "Superior Quality, Salted Pistachios." No claim is made in the pictorial representation of the nuts shown on the drawing.
For Salted Pistachios.
Claims use since October, 1928.

Ser. No. 278,391. THE FLEISCHMANN COMPANY, Cincinnati, Ohio, and New York, N. Y., assignor to Standard Brands Incorporated, Dover, Del., a Corporation of Delaware. Filed Jan. 24, 1929. Under section 5b of the act of 1905 as amended in 1920.

FLEISCHMANN'S

For Vinegar.
Claims use since Jan. 1, 1914.

Ser. No. 280,195. PURITY OATS COMPANY, Keokuk, Iowa. Filed Mar. 2, 1929.

RICH'S

For Rolled Oats or Oat Flakes and a Breakfast Food Made from Oats and Rye.
Claims use since June 10, 1925.

Ser. No. 283,315. SALVATORE VIVIANO, doing business as Viviano Macaroni Manufacturing Company, Carnegie, Pa. Filed Apr. 30, 1929.

LA CARNEGIE

For Alimentary Pastes—Namely, Spaghetti, Noodles, Vermicelli, and Macaroni Products.
Claims use since Aug. 5, 1918.

Ser. No. 286,360. SOUTHWEST DAIRY PRODUCTS COMPANY, Dallas, Tex. Filed June 29, 1929.

SOUTHWEST DAIRY PRODUCTS CO.

For Dairy Products—Namely, Butter, Cheese, Milk, and Ice Cream.
Claims use since Apr. 18, 1929.

Ser. No. 286,763. THE GROCERS & PRODUCERS CO., Cleveland, Ohio. Filed July 8, 1929.

CLOVER FARM

For Cornstarch, Soups, Macaroni, Spaghetti, and Noodles (Packaged), Canned Spaghetti, Rice, Mincemeat, Jell Powder, Packaged Codfish, Evaporated and Dried Fruits, Honey, Peanut Butter, Olive Oil, Salad Oil, Tapioca, Fruit-Flavored Syrups for Food Purposes, Apple Butter, Bird Seed, and Prepared Bird Gravel.
Claims use since 1882.

Ser. No. 288,548. J. & J. COLMAN, LIMITED, London, England. Filed Aug. 15, 1929.

DEVILITE

For Prepared Condiment of Spices.
Claims use since January, 1928.

Ser. No. 289,460. WALTER E. HUGO, Hammond, Ind. Filed Sept. 7, 1929.

LOVE LADY

For Raw Pop Corn, Popped Pop Corn, Pop-Corn Seasoning, Salted Peanuts, and Peanut Butter.
Claims use since Feb. 1, 1928.

Ser. No. 290,462. GOTTFRIED & MARSHALL, New York, N. Y. Filed Oct. 1, 1929.

MILK-MAID

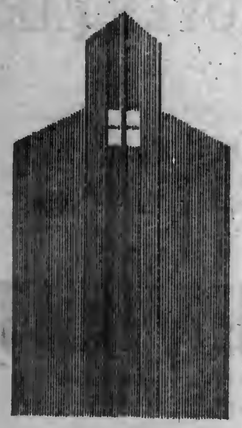
For Eggs.
Claims use since May 1, 1929.

Ser. No. 290,591. PALESTINE INDUSTRIALS INC., New York, N. Y. Filed Oct. 3, 1929.



The words "Holy Land's Best," "Honey," and "Candy" are disclaimed apart from the mark as shown in the drawing.
For Honey.
Claims use since Aug. 30, 1929.

Ser. No. 290,769. VICTORIA ELEVATOR CO., Minneapolis, Minn. Filed Oct. 7, 1929.



The vertical lining in the drawing being for the purpose of representing the color red.
For Wheat Flour.
Claims use since Sept. 6, 1929.

Ser. No. 291,055. FEEDERS SUPPLY AND MANUFACTURING CO., Kansas City, Mo. Filed Oct. 14, 1929.

SUPER-MASH

No claim is made to the word "Mash" apart from the mark as shown in the drawing.
For Poultry Feed.
Claims use since July 16, 1928.

Ser. No. 292,846. JOSEPH C. ZIMMERMAN, doing business as Bloomington Milling Company, Bloomington, Ill. Filed Nov. 12, 1929.

ZIMM'S ZIPPER FEEDS

The word "Feeds" is disclaimed apart from the other features of the mark shown on the drawing.
For Prepared Feed for Cattle, Livestock, and Poultry.
Claims use since Aug. 15, 1929.

Ser. No. 292,467. STANDARD BRANDS INCORPORATED, Dover, Del., and Cincinnati, Ohio. Filed Nov. 15, 1929.



The trade-mark claimed consists of the characteristic design shown in the drawing irrespective of the particular color in which this design is printed, and although blue is the color in which the characteristic trade-mark is ordinarily printed the lines shown in the drawing are not intended to be restrictively indicative of any particular color. No claim is made to a rectangular form of label except in connection with the trade-mark embodying characteristic features of design as shown in the drawing.
For Frozen Eggs—Namely, Frozen Whole Eggs, Frozen Egg Whites, and Frozen Egg Yolks.
Claims use since Oct. 25, 1929.

Ser. No. 292,810. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Nov. 23, 1929.

CLOVER VALLEY

For Canned Sugar Corn, Canned Stringless Beans, Canned Pumpkin, Pork and Beans, Canned Kidney Beans, Chili, Hominy, Canned Salmon, Fruit Preserves, Canned Spinach, Pickles, Vinegar, Canned Asparagus.
Claims use since Aug. 1, 1921.

Ser. No. 293,189. F. J. MCCANN PACKING CO., INC., Salinas, Calif. Filed Dec. 3, 1929.

ICE KING

For Fresh Vegetables.
Claims use since Sept. 15, 1929.

Ser. No. 293,204. AUNT NELLIE'S FARM KITCHEN, INC., Hartford, Wis. Filed Dec. 4, 1929.

Aunt Nellie's



The picture forming a part of the label is fanciful.
For Canned Fruits—Namely, Peaches, Pears, Cherries, Fruits for Salad, Apricots, and Pineapple; Canned Sweet Potatoes.
Claims use since 1921 on canned vegetables; since Aug. 15, 1928, on fruits.

Ser. No. 293,606. STEUART, SON & COMPANY, INCORPORATED, Baltimore, Md. Filed Dec. 12, 1929.



For Table Syrup and Molasses.
Claims use since about January, 1890.

Ser. No. 293,751. SCHULZE BAKING COMPANY, Kansas City, Mo., and Chicago, Ill. Filed Dec. 16, 1929.



For Bread and Cake.
Claims use since June 14, 1928.

Ser. No. 293,990. UNITED MARKETS, INC., Boston, Mass. Filed Dec. 21, 1929.

REDUCINGNAISE

For Nonfattening Mayonnaise.
Claims use since Nov. 7, 1929.

Ser. No. 294,489. ABRAHAM SHALIT, New York, N. Y. Filed Jan. 7, 1930.

Maxine

For Canned Fruits.
Claims use since Jan. 1, 1929.

Ser. No. 294,495. DOUGHNUT MACHINE CORPORATION, New York, N. Y. Filed Jan. 7, 1930.

"The Bite of a Nation"

For Doughnuts.
Claims use since June 3, 1929.

Ser. No. 294,757. BRANDLE & SMITH CO., Philadelphia, Pa. Filed Jan. 14, 1930.

BITE-O-NUT

The word "Nut" is disclaimed apart from the mark shown in the drawing.
For Candies.
Claims use since Dec. 30, 1929.

Ser. No. 294,863. JAMES ROBERT TICHENOR, doing business as J. R. Tichenor & Sons, Louisville, Ky. Filed Jan. 16, 1930.

Sil-Co

For Mayonnaise, Sandwich Spread, and Thousand Island Dressing.
Claims use since Aug. 30, 1929.

Ser. No. 294,917. EVANSVILLE PACKING COMPANY, Evansville, Ind. Filed Jan. 18, 1930.



The picture of the boy is fanciful.

For Prepared, Smoked, and Dried Beef; Prepared and Smoked Pork; Sausage, Dressed Poultry, Lard, Butter, Cheese, and Eggs.

Claims use since Aug. 12, 1922, on prepared, smoked, and dried beef; prepared and smoked pork; sausage, dressed poultry, and butter; since Mar. 1, 1927, on eggs, cheese, and lard.

Ser. No. 295,022. HARRY C. EISENHUT, Richmond Hill, N. Y. Filed Jan. 21, 1930.



For Bird Food.
Claims use since September, 1927.

Ser. No. 295,132. P. J. OESTERLING & SON, INC., Butler, Pa. Filed Jan. 23, 1930.



For Egg Mash, Growing Mash, Open-Formula Egg Mash, Egg Mash with Buttermilk, Scratch Grains, Chick Starter, and Growing Grains for Poultry.
Claims use since October, 1924.

Ser. No. 295,224. INLAND MILLING COMPANY, Des Moines, Iowa. Filed Jan. 25, 1930.



For Wheat Flour.
Claims use since Sept. 19, 1928.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 294,579. THE FRANKFORT DISTILLERY, INC., Louisville, Ky. Filed Jan. 9, 1930.



No special claim is made to the words "Malt Whiskey Adopted June 1, 1885" except as associated with the other features of the mark.

For Malt Whiskey for Medicinal Purposes.
Claims use since Sept. 1, 1884.

Ser. No. 295,079. NATIONAL BROKERAGE COMPANY, INC., Chicago, Ill. Filed Jan. 22, 1930.



For Medicinal Whiskey.
Claims use since about Dec. 15, 1929.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 284,883. UNIVERSAL TRAFFIC CONTROL COMPANY, St. Louis, Mo. Filed May 31, 1929.

LINE-O-SITE

For Highway and Pavement Markers, Nonelectrical Road and Street Signs, and Nonelectrical Traffic-Control Signals of the Stationary Type in the Form of a Dome Provided with an Indicia or Lettering and/or Reflectors and in the Form of a Flexible Strip Containing an Indicia or Lettering.
Claims use since Dec. 1, 1927.

Ser. No. 292,148. ANDERSON BOX COMPANY, Indianapolis, Ind. Filed Nov. 8, 1929.

LIV-AN-GRO

For Brooders for Chicks and the Like.
Claims use since Aug. 3, 1929.

Ser. No. 293,414. E. I. DUPONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Dec. 9, 1929.

VELUTEX

For Textile Fabric Treated with Rubber Thereby Producing a Rubberized Napped Sheeting.
Claims use since Oct. 15, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 4, 1930

267,781. WHEAT FLOUR AND SELF-RISING FLOUR. BALLARD & BALLARD CO., Louisville, Ky.
Filed November 8, 1929. Serial No. 292,151. PUBLISHED DECEMBER 17, 1929. Class 46.

267,782. PANCAKE FLOUR. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed November 2, 1929. Serial No. 291,933. PUBLISHED DECEMBER 17, 1929. Class 46.

267,783. LUMBER. INDIANA QUARTERED OAK COMPANY, Long Island City, N. Y.
Filed October 19, 1929. Serial No. 291,274. PUBLISHED DECEMBER 17, 1929. Class 12.

267,784. ROLLS. PAPENDICK BAKERY CO., St. Louis, Mo.
Filed October 14, 1929. Serial No. 291,067. PUBLISHED DECEMBER 17, 1929. Class 46.

267,785. VISCOSE MATERIAL IN THE RAW STATE. LAKEMILL TEXTILE CORPORATION, New York, N. Y.
Filed October 10, 1929. Serial No. 290,898. PUBLISHED DECEMBER 10, 1929. Class 1.

267,786. BREAD FOR USE IN THE MANUFACTURE OF SAUSAGE. T. B. FINNEY & COMPANY, LIMITED, Cornbrook, Manchester, England.
Filed October 7, 1929. Serial No. 290,749. PUBLISHED DECEMBER 17, 1929. Class 46.

267,787. PRECAST CONCRETE MARBLE PRODUCT FOR BUILDING AND DECORATIVE PURPOSES. CONCRETE MARBLE COMPANY, St. Louis Mo.
Filed October 4, 1929. Serial No. 290,652. PUBLISHED DECEMBER 3, 1929. Class 12.

267,788. WATERPROOF PIPE-JOINT COMPOUND. KEY BOILER EQUIPMENT CO., INC., East St. Louis, Ill.
Filed October 2, 1929. Serial No. 290,516. PUBLISHED DECEMBER 17, 1929. Class 12.

267,789. LIME IN THE LUMP QUICK STATE AND ALSO HYDRATED LIME. GAGER LIME MANUFACTURING CO., Sherwood and Chattanooga, Tenn.
Filed October 2, 1929. Serial No. 290,507. PUBLISHED DECEMBER 17, 1929. Class 12.

267,790. SAND FINISH PLASTER. THE GRAVES COMPANY, Hammond, Ind.
Filed September 26, 1929. Serial No. 290,250. PUBLISHED NOVEMBER 26, 1929. Class 12.

267,791. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,990. PUBLISHED DECEMBER 10, 1929. Class 12.

267,792. WASHBOARDS AND CLOTHESPINS. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio.
Filed August 5, 1929. Serial No. 288,137. PUBLISHED DECEMBER 17, 1929. Class 24.

267,793. PEDAL-PROPELLED VEHICLES OF VELOCIPEDE TYPE FOR PRACTICAL USE. ISAAC NETTLES, Detroit, Mich.
Filed August 2, 1929. Serial No. 288,030. PUBLISHED DECEMBER 17, 1929. Class 19.

267,794. AUTOMOBILES AND STRUCTURAL PARTS THEREOF. PENN LIMOUSINE SERVICE, Philadelphia, Pa.
Filed July 18, 1929. Serial No. 287,686. PUBLISHED DECEMBER 17, 1929. Class 19.

267,795. PAPER BAGS. GILMAN PAPER COMPANY, New York, N. Y.
Filed July 10, 1929. Serial No. 286,877. PUBLISHED DECEMBER 17, 1929. Class 2.

267,796. BAGS AND SACKS OF CELLULOSE FIBRE. THE ENGLISH TEXTILOSE MANUFACTURING COMPANY LIMITED, Manchester, England.
Filed June 24, 1929. Serial No. 286,044. PUBLISHED DECEMBER 17, 1929. Class 2.

267,797. STOGIES. INDUSTRIAL CIGAR COMPANY, Pittsburgh, Pa.
Filed June 19, 1929. Serial No. 285,778. PUBLISHED DECEMBER 17, 1929. Class 17.

267,798. SMALL METAL TUBING FOR CONDUCTING FLUIDS. UNITED WIRE AND SUPPLY CORPORATION, Providence, R. I.
Filed June 18, 1929. Serial No. 285,539. PUBLISHED DECEMBER 17, 1929. Class 13.

267,799. PREPARED LEAF TOBACCO. THE TOBACCO EXPORT COMPANY INC., Clarksville, Tenn.
Filed June 7, 1929. Serial No. 285,235. PUBLISHED DECEMBER 17, 1929. Class 17.

267,800. PREPARED LEAF TOBACCO. THE TOBACCO EXPORT COMPANY INC., Clarksville, Tenn.
Filed June 7, 1929. Serial No. 285,234. PUBLISHED DECEMBER 17, 1929. Class 17.

267,801. HOUSEHOLD SALVE FOR THE TREATMENT OF CUTS, BURNS, BRUISES, BOILS, CHILBLAINS, PILES, ECZEMA, SUNBURN, POISON IVY, INSECT BITES, AND ULCERS. THE J. R. WATKINS COMPANY, Winona, Minn.
Filed October 18, 1929. Serial No. 291,254. PUBLISHED DECEMBER 3, 1929. Class 6.

267,802. MEN'S HATS. FRANK KATZ HAT CO. INC., New York, N. Y.
Filed October 17, 1929. Serial No. 291,165. PUBLISHED DECEMBER 10, 1929. Class 39.

267,803. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. ELIAS-KATZ SHOE FACTORIES, INC., Los Angeles, Calif.
Filed October 15, 1929. Serial No. 291,082. PUBLISHED DECEMBER 10, 1929. Class 39.

267,804. WEATHER STRIPS. RED-D-PLY MANUFACTURING COMPANY, St. Louis, Mo.
Filed September 5, 1929. Serial No. 289,367. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,805. BITUMINOUS EMULSIONS FOR USE IN ROAD MAKING, PAVING, AND BUILDING. THE GRAPHITE OILS COMPANY, LIMITED, Grimsby, England.
Filed August 30, 1929. Serial No. 289,185. PUBLISHED DECEMBER 10, 1929. Class 12.

267,806. COMPOSITION FLOORING DIVISION STRIPS. DE PAOLI COMPANY, INC., New York, N. Y.
Filed August 12, 1929. Serial No. 288,419. PUBLISHED NOVEMBER 26, 1929. Class 12.

267,807. PAVING AGGREGATE COATED WITH BITUMEN. COLPROVIA ROADS, INC., New York, N. Y.
Filed July 31, 1929. Serial No. 287,910. PUBLISHED DECEMBER 3, 1929. Class 12.

267,808. CERTAIN NAMED CONSTRUCTION MATERIAL. CHEMISCHE FABRIK GRUENAU LANDSHOFF & MEYER AKTIENGESELLSCHAFT, Grunau, Germany.
Filed June 24, 1929. Serial No. 286,030. PUBLISHED DECEMBER 3, 1929. Class 12.

267,809. CERTAIN NAMED CONSTRUCTION MATERIALS. BRASCO MANUFACTURING COMPANY, Chicago, Ill.
Filed June 17, 1929. Serial No. 285,705. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,810. PAPER WRAPPERS FOR WASTE MATERIAL. ANNIE CHANDLER, Toledo, Ohio.
Filed October 12, 1929. Serial No. 290,995. PUBLISHED DECEMBER 17, 1929. Class 2.

267,811. WOMEN'S AND MISSES' LEATHER SHOES. PHILIP WEINSTEIN, doing business as Martin Weinstein Shoe Co., Brooklyn, N. Y.
Filed October 11, 1929. Serial No. 290,985. PUBLISHED DECEMBER 10, 1929. Class 39.

267,812. BALL COCKS. SHERWOOD BRASS WORKS, Detroit, Mich.
Filed October 11, 1929. Serial No. 290,975. PUBLISHED DECEMBER 17, 1929. Class 13.

267,813. PAPER LINERS FOR BASKETS. RICE, TREW & RICE CO. INC., Biglerville, Pa.
Filed October 10, 1929. Serial No. 290,909. PUBLISHED DECEMBER 17, 1929. Class 2.

267,814. METAL CURTAIN RODS. THE NEWELL MFG. CO., INC., Ogdensburg, N. Y.
Filed October 10, 1929. Serial No. 290,905. PUBLISHED DECEMBER 17, 1929. Class 13.

267,815. WORK PANTS, WORK SHIRTS, DRESS SHIRTS, AND MEN'S HATS. POOL SALES COMPANY, Sherman, Tex.
Filed October 7, 1929. Serial No. 290,763. PUBLISHED DECEMBER 17, 1929. Class 39.

267,816. COATS, SUITS, FROCKS, AND HATS AND LININGS FOR HATS FOR WOMEN AND MISSES; GLOVES OF LEATHER, SILK, COTTON, WOOL, RAYON, OR COMBINATIONS THEREOF; SHOES OF LEATHER. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed October 7, 1929. Serial No. 290,759. PUBLISHED DECEMBER 10, 1929. Class 39.

267,817. FELT HATS FOR WOMEN, UNTRIMMED. HENRY POLLAK, INC., New York, N. Y.
Filed October 4, 1929. Serial No. 290,663. PUBLISHED DECEMBER 3, 1929. Class 39.

267,818. SHOES, BOOTS, SLIPPERS, AND PUMPS MADE OF LEATHER AND LEATHER AND FABRICS. CLARENDON SHOE CO., INC., Brooklyn, N. Y.
Filed October 4, 1929. Serial No. 290,650. PUBLISHED DECEMBER 10, 1929. Class 39.

267,819. CAST-IRON SOIL PIPE AND FITTINGS. A. WEISKITTEL & SONS CO., Baltimore, Md.
Filed October 3, 1929. Serial No. 290,639. PUBLISHED DECEMBER 17, 1929. Class 13.

267,820. REFINED OIL FOR LIGHTING, HEATING, AND POWER PURPOSES. STANDARD OIL COMPANY OF BRAZIL, Fairmont, W. Va.
Filed October 3, 1929. Serial No. 290,626. PUBLISHED DECEMBER 3, 1929. Class 15.

267,821. AUTOMOBILE PARTS—NAMELY, SPRING SHACKLES, SHACKLES, TIE RODS, AND LINKS. BORST ENGINEERING CORPORATION, Buffalo, N. Y.
Filed October 3, 1929. Serial No. 290,541. PUBLISHED DECEMBER 17, 1929. Class 19.

267,822. LADIES' SHOES OF LEATHER, FABRIC, AND A COMBINATION OF LEATHER AND FABRIC. FORSYTHE SHOE CORPORATION, New York, N. Y.
Filed September 28, 1929. Serial No. 290,350. PUBLISHED DECEMBER 10, 1929. Class 39.

267,823. BLOWER AND COIL-TYPE INDIRECT HEATERS. SKINNER BROS. MFG. CO., INC., St. Louis, Mo.
Filed September 27, 1929. Serial No. 290,324. PUBLISHED DECEMBER 17, 1929. Class 34.

267,824. LADIES', MISSES', AND CHILDREN'S SHOES MADE OF LEATHER, RUBBER, OR FABRIC OR OF COMBINATIONS OF THOSE MATERIALS. H. CHILDS & CO. INC., Pittsburgh, Pa.
Filed September 27, 1929. Serial No. 290,303. PUBLISHED DECEMBER 10, 1929. Class 39.

267,825. GLOVES CONSTRUCTED OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. HEILIG & FLOREA, INC., New York, N. Y.
Filed September 21, 1929. Serial No. 290,067. PUBLISHED DECEMBER 3, 1929. Class 39.

267,826. CIGAR AND CIGARETTE HOLDERS, ASH TRAYS, PIPES, ETC. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 13, 1929. Serial No. 289,730. PUBLISHED DECEMBER 17, 1929. Class 8.

267,827. AUTOMOBILE WHEELS FOR PNEUMATIC TIRES. BERGISCHE STAHL-INDUSTRIE, Remscheid, Germany.
Filed September 13, 1929. Serial No. 289,707. PUBLISHED DECEMBER 17, 1929. Class 19.

267,828. SHOWER CURTAINS USED FOR BATH PURPOSES, MADE UP OF A FABRIC COATED ON BOTH SIDES BY AN IMPREGNATION TREATMENT SO AS TO MAKE SAME WATERPROOF. PARA RUBBER COMPANY, Newark, N. J.
Filed August 12, 1929. Serial No. 288,449. PUBLISHED DECEMBER 17, 1929. Class 18.

267,829. COMBINED LAMP AND FAN STANDARDS. THE CINCINNATI VICTOR COMPANY, Cincinnati, Ohio.
Filed August 7, 1929. Serial No. 288,220. PUBLISHED DECEMBER 17, 1929. Class 34.

267,830. METAL SCREENING IN THE PIECE. AUDUBON WIRE CLOTH COMPANY, Audubon, N. J.
Filed August 7, 1929. Serial No. 288,214. PUBLISHED DECEMBER 17, 1929. Class 18.

267,831. PERFUME. GUERLAIN PERFUMERY CORPORATION OF NEW YORK, New York, N. Y.
Filed October 30, 1929. Serial No. 291,765. PUBLISHED DECEMBER 10, 1929. Class 6.

267,832. MEDICINAL PREPARATIONS FOR REDUCING OBESITY. SAMUEL R. STRAUSS, doing business as "Strauss Laboratories," Huntington, N. Y.
Filed October 29, 1929. Serial No. 291,744. PUBLISHED DECEMBER 10, 1929. Class 6.

267,833. MEDICAL PREPARATION FOR THE TREATMENT OF COLDS. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed October 28, 1929. Serial No. 291,711. PUBLISHED DECEMBER 10, 1929. Class 6.

267,834. CAPSULES FOR TREATING MUSCULAR PAINS AND ACHES. AUGUST GUSTAV LUBBERT, Coatesville, Pa.
Filed October 26, 1929. Serial No. 291,626. PUBLISHED DECEMBER 17, 1929. Class 6.

267,835. COMPOUND FOR PROMOTING THE GROWTH OF THE HAIR. MARGARET S. JOHNSON, Baltimore, Md.
Filed October 25, 1929. Serial No. 291,564. PUBLISHED DECEMBER 3, 1929. Class 6.

267,836. SKIN CREAM, FACE POWDER, TOILET WATER, ETC. JOHN N. MCMATH, doing business as Rosemary Shelton Preparations, Upper Montclair, N. J.
Filed October 23, 1929. Serial No. 291,462. PUBLISHED DECEMBER 17, 1929. Class 6.

267,837. MENTHOLATED CREAM, HAIR POMADE, TALCUM POWDER, ETC. HOUSEHOLD UTILITIES Co., Chicago, Ill.
Filed October 23, 1929. Serial No. 291,454. PUBLISHED DECEMBER 17, 1929. Class 6.

267,838. PETROLEUM BY-PRODUCT CUT TO SPECIFICATIONS FOR THE PURPOSE OF REPLACING THE USE OF BENZOL TO THE LACQUER AND RUBBER INDUSTRIES. ANDERSON-PRICHARD OIL CORPORATION, Oklahoma City, Okla.
Filed October 23, 1929. Serial No. 291,422. PUBLISHED DECEMBER 17, 1929. Class 6.

267,839. POWDER FOR PREPARING HAIR-WAVING LOTIONS. FREDK. RICHARDSON, doing business as Optimol Laboratory, New York, N. Y.
Filed October 22, 1929. Serial No. 291,410. PUBLISHED DECEMBER 10, 1929. Class 6.

267,840. EFFERVESCENT SOLUTION OF MAGNESIA. PHILADELPHIA MAGNESIA COMPANY, Philadelphia, Pa.
Filed October 22, 1929. Serial No. 291,405. PUBLISHED DECEMBER 10, 1929. Class 6.

267,841. ASTRINGENTS, ASTRINGENT CERATES, BLEACH AND BEAUTY CREAMS, ETC. PERCIVAL E. FALKINGHAM, New York, N. Y.
Filed October 19, 1929. Serial No. 291,268. PUBLISHED DECEMBER 3, 1929. Class 6.

267,842. WOMEN'S GIRDLES. ROBERT STEINBERG, New York, N. Y.
Filed February 12, 1929. Serial No. 279,246. PUBLISHED NOVEMBER 12, 1929. Class 39.

267,843. CANNED FISH. ITALIAN FOOD PRODUCTS COMPANY, INC., Long Beach, Calif.
Filed June 13, 1928. Serial No. 267,963. PUBLISHED DECEMBER 17, 1929. Class 46.

267,844. MALT EXTRACTS. PURITAN MALT EXTRACT Co., Chicago, Ill., assignor to Puritan Malt Extract Company, Chicago, Ill., a Corporation of Illinois.
Filed June 2, 1928. Serial No. 267,387. PUBLISHED DECEMBER 17, 1929. Class 46.

267,845. LAWN MOWERS. THE THOMAS MANUFACTURING COMPANY, Springfield, Ohio.
Filed April 4, 1928. Serial No. 264,834. PUBLISHED DECEMBER 17, 1929. Class 23.

267,846. LAWN MOWERS. THE THOMAS MANUFACTURING COMPANY, Springfield, Ohio.
Filed April 4, 1928. Serial No. 264,832. PUBLISHED DECEMBER 17, 1929. Class 23.

267,847. REGULATING VALVES, CHECK VALVES, GATE VALVES, AND RELIEF VALVES. PENBERTHY INJECTOR COMPANY, Detroit, Mich.
Filed May 31, 1929. Serial No. 284,870. PUBLISHED DECEMBER 17, 1929. Class 13.

267,848. INSECTICIDAL SPRAY PRODUCTS—NAMELY, OIL EMULSIONS, LIME-SULPHUR SOLUTIONS, ETC. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed May 31, 1929. Serial No. 284,851. PUBLISHED DECEMBER 10, 1929. Class 6.

267,849. DRESSED POULTRY. BRINK & SONS INC., Chicago, Ill.
Filed June 1, 1929. Serial No. 284,897. PUBLISHED DECEMBER 17, 1929. Class 46.

267,850. IRON MINERAL COMPOUND. ANTHONY M. ODOM, Jr., doing business as N-I-M-C Laboratories, Memphis, Tenn., assignor to Minnie May La Grone, Blackwell, Okla.
Filed May 27, 1929. Serial No. 284,689. PUBLISHED DECEMBER 3, 1929. Class 6.

267,851. TONIC FOR INDIGESTION AND THE DIGESTIVE ORGANS AND A CHLOROFORM LINIMENT. R. C. JENKINS, doing business as Lake Geneva Drug Co. and Orange Cross Laboratory, Lake Geneva, Fla.
Filed May 27, 1929. Serial No. 284,679. PUBLISHED NOVEMBER 26, 1929. Class 6.

267,852. ARTIFICIAL TREES FOR ORNAMENTAL PURPOSES. ANTONE BLAZIC, Sawtelle, Calif.
Filed May 21, 1929. Serial No. 284,389. PUBLISHED DECEMBER 10, 1929. Class 50.

267,853. DEVELOPING GRAINS, STARTER MASH, BABY-CHICK SCRATCH FEED, DAIRY RATIONS, MIXED FEED FOR LIVESTOCK AND POULTRY. EL CAMPO RICE MILLING COMPANY, El Campo, Tex.
Filed May 20, 1929. Serial No. 284,293. PUBLISHED DECEMBER 17, 1929. Class 46.

267,854. BOTTLE CAPS. WILLIAMS SEALING CORPORATION, Decatur, Ill.
Filed May 18, 1929. Serial No. 284,258. PUBLISHED DECEMBER 3, 1929. Class 50.

267,855. HEATING RADIATORS. NATIONAL RADIATOR CORPORATION, Johnstown, Pa.
Filed May 11, 1929. Serial No. 283,887. PUBLISHED DECEMBER 17, 1929. Class 34.

267,856. COLOGNE WATER. JOHANN MARIA FARINA, Cologne-on-the-Rhine, Germany.
Filed May 10, 1929. Serial No. 283,788. PUBLISHED DECEMBER 10, 1929. Class 6.

267,857. EAU DE COLOGNE. LOUIS MARX, doing business as Johann Maria Farina zur Madonna, Cologne, Germany.
Filed May 8, 1929. Serial No. 283,690. PUBLISHED DECEMBER 10, 1929. Class 6.

267,858. CERTAIN NAMED CONSTRUCTION MATERIALS. CLARENCE J. RICHARDS, Los Angeles, Calif.
Filed April 30, 1929. Serial No. 283,301. PUBLISHED DECEMBER 3, 1929. Class 12.

267,859. METALLIC WALL COVERING. BLAIR & MORTENSON, doing business as Chromite Co., Chicago, Ill.
Filed April 29, 1929. Serial No. 283,170. PUBLISHED DECEMBER 10, 1929. Class 12.

267,860. MEDICINAL PREPARATION FOR TREATING PILES. C. H. PAULIE, doing business as C. H. Paulie, Laboratories, Seymour, Wis.
Filed February 9, 1929. Serial No. 279,106. PUBLISHED NOVEMBER 19, 1929. Class 6.

267,861. NUMBERING MACHINES. THE BATES MANUFACTURING COMPANY, West Orange, N. J.
Filed November 7, 1929. Serial No. 292,092. PUBLISHED DECEMBER 17, 1929. Class 26.

267,862. INNER TUBES FOR VEHICLE TIRES. JOSEPH EDELSON, doing business as J. E. Auto Supply Company, Chicago, Ill.
Filed November 6, 1929. Serial No. 292,067. PUBLISHED DECEMBER 17, 1929. Class 35.

267,863. SEWING MACHINES. WHITE SEWING MACHINE CORPORATION, Cleveland, Ohio.
Filed October 31, 1929. Serial No. 291,854. PUBLISHED DECEMBER 17, 1929. Class 23.

267,864. SEWING MACHINES. WHITE SEWING MACHINE CORPORATION, Cleveland, Ohio.
Filed October 31, 1929. Serial No. 291,853. PUBLISHED DECEMBER 17, 1929. Class 23.

267,865. GINGER ALE AND LEMON SODA. BEAVER DAM BOTTLING COMPANY, Beaver Dam, Wis.
Filed October 31, 1929. Serial No. 291,812. PUBLISHED DECEMBER 17, 1929. Class 45.

267,866. BABIES' AND CHILDREN'S FURNITURE, FOOTSTOOLS, TABLES, MAGAZINE RACKS, ETC. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 18, 1929. Serial No. 289,734. PUBLISHED DECEMBER 17, 1929. Class 32.

267,867. CIGAR CUTTERS, TABLE AND GLASS KNIVES, CARVING SETS, ETC. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 13, 1929. Serial No. 289,721. PUBLISHED DECEMBER 17, 1929. Class 28.

267,868. HAIR FOR STUFFING MATTRESSES, FURNITURE, AND UPHOLSTERY. F. P. WOLL & COMPANY, Philadelphia, Pa.
Filed October 24, 1929. Serial No. 291,541. PUBLISHED DECEMBER 17, 1929. Class 32.

267,869. HAIR FOR STUFFING MATTRESSES, FURNITURE, AND UPHOLSTERY. F. P. WOLL & COMPANY, Philadelphia, Pa.
Filed October 24, 1929. Serial No. 291,540. PUBLISHED DECEMBER 17, 1929. Class 32.

267,870. RAZORS AND SHEARS. E. MORRIS MFG. CO., Detroit, Mich.
Filed October 24, 1929. Serial No. 291,519. PUBLISHED DECEMBER 17, 1929. Class 28.

267,871. ROTARY HONING AND GRINDING TOOLS FOR FINISHING CYLINDER BORES OR THE LIKE. MICROMATIC HONE CORPORATION, Detroit, Mich.
Filed October 19, 1929. Serial No. 291,284. PUBLISHED DECEMBER 17, 1929. Class 23.

267,872. ROTARY HONING AND GRINDING TOOLS FOR FINISHING CYLINDER BORES OR THE LIKE. MICROMATIC HONE CORPORATION, Detroit, Mich.
Filed October 19, 1929. Serial No. 291,283. PUBLISHED DECEMBER 17, 1929. Class 28.

267,873. UNITARY APPARATUS FOR SYNCHRONOUS REPRODUCTION OF LIGHT AND SOUND EFFECTS THROUGH FILMS AND RECORDS. STANLEY FILM ADVERTISING COMPANY, New York, N. Y.
Filed October 17, 1929. Serial No. 291,180. PUBLISHED OCTOBER 17, 1929. Class 26.

267,874. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. NU GRAPE COMPANY OF AMERICA, Atlanta, Ga.
Filed October 17, 1929. Serial No. 291,171. PUBLISHED DECEMBER 17, 1929. Class 45.

267,875. AUTOMATIC DRILLS, RATCHET SCREW DRIVERS, SPIRAL RATCHET SCREW DRIVERS, RECIPROCATING DRILLS, COUNTERSINKS, TOOL SETS COMPRISING SPIRAL RATCHET SCREW DRIVERS, RATCHET SCREW DRIVERS, CHUCK AND DRILL ATTACHMENTS, AND COUNTERSINKS. NORTH BROS. M'F'G CO., Philadelphia, Pa.
Filed October 16, 1929. Serial No. 291,134. PUBLISHED DECEMBER 17, 1929. Class 23.

267,876. AUTOMATICALLY-PRIMED POWER-PUMP UNITS AND PUMPING MACHINERY AND PARTS THEREOF. AMERICAN STEAM PUMP COMPANY, Battle Creek, Mich.
Filed October 16, 1929. Serial No. 291,109. PUBLISHED DECEMBER 17, 1929. Class 23.

267,877. DIAMOND-POINTED CUTTING, DRESSING, AND TURNING TOOLS. FOLLIARD F. GILMORE, doing business as F. F. Gilmore & Co., Boston, Mass.
Filed October 3, 1929. Serial No. 290,569. PUBLISHED DECEMBER 17, 1929. Class 23.

267,878. APPARATUS FOR CONVEYING AND TRANSMITTING MERCHANDISE, PAPERS, AND MONEY. THE LAMSON COMPANY, Syracuse, N. Y.
Filed September 24, 1929. Serial No. 290,185. PUBLISHED DECEMBER 17, 1929. Class 23.

267,879. APPARATUS FOR CONVEYING AND TRANSMITTING MERCHANDISE, PAPERS, AND MONEY. THE LAMSON COMPANY, Syracuse, N. Y.
Filed September 24, 1929. Serial No. 290,184. PUBLISHED DECEMBER 17, 1929. Class 23.

267,880. CAMERAS, PICTURE PROJECTORS, PARTS THEREOF, AND FILMS FOR USE THEREWITH. FILMAGRAPH CORPORATION, South Easton, Mass.
Filed September 23, 1929. Serial No. 290,122. PUBLISHED DECEMBER 17, 1929. Class 26.

267,881. WRENCHES, WRENCH SETS, WRENCH SOCKETS, TOOL HANDLES, AND SCREW DRIVERS. SNAP-ON WRENCH COMPANY, Chicago, Ill.
Filed September 20, 1929. Serial No. 290,037. PUBLISHED DECEMBER 17, 1929. Class 28.

267,882. COMBINED SMOKING STAND AND HUMIDOR IN THE NATURE OF A PERMANENT PIECE OF FURNITURE. METAL STAMPINGS CORPORATION, Streator, Ill.
Filed September 11, 1929. Serial No. 289,639. PUBLISHED DECEMBER 17, 1929. Class 32.

267,883. BEDS, DRESSERS, WARDROBES, CHESTS, VANITIES, BEDROOM CHAIRS, ETC. FEDERAL FURNITURE FACTORIES, INC., New York, N. Y.
Filed September 7, 1929. Serial No. 289,458. PUBLISHED DECEMBER 17, 1929. Class 32.

267,884. TOOLS. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed July 18, 1929. Serial No. 287,291. PUBLISHED DECEMBER 17, 1929. Class 28.

267,885. TOOLS. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa.
Filed July 18, 1929. Serial No. 287,290. PUBLISHED DECEMBER 17, 1929. Class 23.

267,886. SIGN-DISPLAYING APPARATUS. ELEVATOR SUPPLIES COMPANY, INC., Hoboken, N. J.
Filed July 5, 1929. Serial No. 286,675. PUBLISHED DECEMBER 17, 1929. Class 26.

267,887. PREPARATION FOR EXTERMINATING RATS. LOUIS J. RUDOLPH, doing business as Lewis Laboratories, St. Joseph, Mo.
Filed October 18, 1929. Serial No. 291,240. PUBLISHED DECEMBER 10, 1929. Class 6.

267,888. PRODUCT USED FOR SIZING ARTIFICIAL SILK. GENERAL DYESTUFF CORPORATION, New York, N. Y.
Filed October 18, 1929. Serial No. 291,214. PUBLISHED DECEMBER 3, 1929. Class 6.

267,889. DEODORANT, DISINFECTANT, INSECTICIDE, AND GERMICIDE IN SOLID CAKE FORM. CRYSTAL PRODUCTS CO., INC., New York, N. Y.
Filed October 18, 1929. Serial No. 291,207. PUBLISHED DECEMBER 10, 1929. Class 6.

267,890. INSECTICIDE. ROLAND LAWS, doing business as Laws Exterminating Co., Webster Groves, Mo.
Filed October 14, 1929. Serial No. 291,060. PUBLISHED DECEMBER 3, 1929. Class 6.

267,891. MEDICINE FOR THE TREATMENT OF DISEASES OF THE URINARY PASSAGES. SCHERING-KAHLBAUM A. G., Berlin, Germany.
Filed October 8, 1929. Serial No. 290,605. PUBLISHED DECEMBER 3, 1929. Class 6.

267,892. TROCHE OR TABLET PREPARED ESPECIALLY FOR DYSPEPSIA, INDIGESTION, ETC. OTTO J. TEMPLIN, doing business as The Verno Company, Milwaukee, Wis.
Filed September 26, 1929. Serial No. 290,278. PUBLISHED NOVEMBER 19, 1929. Class 6.

267,893. CHEMICAL PRODUCT USED AS A SOFTENING AGENT FOR HARD WATER, PARTICULARLY AS AN ADDITION TO THE RINSING BATH FOR SOAPED FABRICS, SUCH AS COTTON OR ARTIFICIAL SILK. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed September 10, 1929. Serial No. 289,585. PUBLISHED DECEMBER 10, 1929. Class 6.

267,894. LIQUID GERMICIDE, INSECTICIDE, FLY AND MOTH SYRAY, OIL FOR DESTROYING PLANT INSECTS, LIQUID DISINFECTANT, LIQUID DEODORANT, AND LIQUID SPRAY USED TO DESTROY THE GERMS IN THE AIR. SUN DIAL SANITARY SALES CO., INC., New York, N. Y.
Filed August 31, 1929. Serial No. 289,255. PUBLISHED DECEMBER 17, 1929. Class 6.

267,895. METALLIC WALL COVERING. BLAIR & MORTENSON, doing business as Chromite Co., Chicago, Ill.
Filed April 29, 1929. Serial No. 283,169. PUBLISHED DECEMBER 10, 1929. Class 12.

267,896. ROACH POWDERS AND MOTH CRYSTALS. THE IDALENE CORPORATION, Toledo, Ohio.
Filed April 25, 1929. Serial No. 282,991. PUBLISHED DECEMBER 10, 1929. Class 6.

267,897. OIL-WELL TOOLS—NAMELY, CROWN BLOCKS AND PARTS THEREOF. THE NATIONAL SUPPLY COMPANY OF DELAWARE, New York, N. Y.
Filed April 23, 1929. Serial No. 282,873. PUBLISHED DECEMBER 17, 1929. Class 23.

267,898. METAL PIPES AND PIPE FITTINGS. ALFRED E. STRINGER, Chicago, Ill.
Filed January 26, 1929. Serial No. 278,496. PUBLISHED DECEMBER 17, 1929. Class 13.

267,899. RAW, DRESSED, DYED AND DRESSED ANIMAL SKINS, PELTS, AND FURS. ETTINGON-SCHILD CO. INC., New York, N. Y.
Filed January 22, 1929. Serial No. 278,267. PUBLISHED DECEMBER 10, 1929. Class 1.

267,900. FRESH GRAPEFRUIT. COACHELLA VALLEY GRAPEFRUIT ASSOCIATION, Thermal, Calif.
Filed January 2, 1929. Serial No. 277,461. PUBLISHED MARCH 5, 1929. Class 46.

267,901. MALT SYRUP. LA CROSSE REFINING COMPANY, La Crosse, Wis.
Filed December 28, 1928. Serial No. 277,800. PUBLISHED DECEMBER 17, 1929. Class 46.

267,902. PLASTER. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed January 26, 1928. Serial No. 260,702. PUBLISHED DECEMBER 10, 1929. Class 12.

267,903. CERTAIN NAMED FOOD PRODUCTS. THE JANSZEN COMPANY, Cincinnati, Ohio.
Filed December 30, 1927. Serial No. 259,495. PUBLISHED JULY 3, 1928. Class 46.

267,904. CANNED FRUITS AND VEGETABLES AND TOMATO PASTE. LORENZO ZERILLO, doing business as Riverbank Packing Company, Riverbank Canning Co., and Lorenzo Packing Company, Riverbank, Calif.
Filed October 5, 1927. Serial No. 255,690. PUBLISHED JANUARY 1, 1929. Class 46.

267,905. RUBBER IN SHEET FORM. DR. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany.
Filed April 12, 1926. Serial No. 230,060. PUBLISHED NOVEMBER 19, 1929. Class 1.

267,906. A PREPARATION FOR LAMENESS AND OTHER AILMENTS OF HORSES, CATTLE, AND OTHER ANIMALS. SOCIÉTÉ DES ENFANTS GOMBAULT ET CIE., Nogent-sur-Marne, France.
Filed July 24, 1925. Serial No. 217,838. PUBLISHED DECEMBER 14, 1926. Class 6.

267,907. GARDEN, FIELD, AND LAWN SEEDS. ROBERT B. BUCHANAN, Memphis, Tenn.
Filed September 1, 1923. Serial No. 185,281. PUBLISHED DECEMBER 10, 1929. Class 1.

267,908. NUCLEAR AND NERVE NUTRIENTS CONSISTING OF VARIED COMBINATIONS OF GLYCEROPHOSPHATES. SCHERING & GLATZ, INC., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J., a Corporation of New Jersey.
Filed January 28, 1919. Serial No. 115,489. PUBLISHED JUNE 25, 1929. Class 6.

267,909. MOVING-PICTURE SCREENS FOR RECEIVING PROJECTED PICTURES. AMERICAN CINE SCREEN CO., St. Louis, Mo.
Filed December 17, 1928. Serial No. 276,828. PUBLISHED FEBRUARY 26, 1929. Class 26.

267,910. TEA AND COFFEE. VERMONT TEA AND BUTTER CO., Lawrence, Mass.
Filed December 5, 1928. Serial No. 276,353. PUBLISHED DECEMBER 17, 1929. Class 46.

267,911. SAWS OF ALL KINDS AND MACHINE KNIVES OF ALL KINDS, EXCLUSIVE OF CUTLERY. THE SAW & KNIFE SPECIALTY CO., INC., Cleveland, Ohio.
Filed November 28, 1928. Serial No. 275,986. PUBLISHED JANUARY 29, 1929. Class 28.

267,912. HAIR TONIC. PHILIP H. WARSHAW, INC., Brooklyn, N. Y.
Filed November 26, 1928. Serial No. 275,878. PUBLISHED DECEMBER 3, 1929. Class 6.

267,913. FIBRE FLOWERPOTS, FIBRE MILK AND CREAM BOTTLES. CENTRAL FIBRE CO. INC., South Gardiner, Me.
Filed November 19, 1928. Serial No. 275,479. PUBLISHED DECEMBER 17, 1929. Class 2.

267,914. CERTAIN NAMED TREATED PIECE GOODS. WINDHAM MANUFACTURING CO., South Boston, Mass.
Filed October 31, 1928. Serial No. 274,618. PUBLISHED DECEMBER 3, 1929. Class 50.

267,915. ROCK ASPHALT. THE UTAH ROCK ASPHALT CORPORATION, Pueblo, Colo.
Filed October 18, 1928. Serial No. 273,990. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,916. SODIUM SULPHIDE. BARIUM REDUCTION CORPORATION, Charleston, W. Va.
Filed October 10, 1928. Serial No. 273,620. PUBLISHED DECEMBER 17, 1929. Class 6.

267,917. CLEANSING AND TOILET CREAMS, SKIN LOTION, BEAUTY CLAY, ETC. THAYER & CHANDLER, Chicago, Ill.
Filed October 8, 1928. Serial No. 273,332. PUBLISHED DECEMBER 3, 1929. Class 6.

267,918. SANDWICHES, TAMALES, AND FRESH VEGETABLES. GOLDEN GOOSE HAMBURGER SYSTEM, Tulsa, Okla.
Filed October 8, 1928. Serial No. 273,296. PUBLISHED DECEMBER 17, 1929. Class 46.

267,919. CEREAL BREAKFAST FOOD. KADOTA FIG PRODUCTS CO., Los Angeles, Calif.
Filed September 29, 1928. Serial No. 273,147. PUBLISHED DECEMBER 17, 1929. Class 46.

267,920. CHOCOLATE-COATED CANDY BARS. JOLLY JOHN'S CANDY COMPANY INCORPORATED, New York, N. Y.
Filed September 28, 1928. Serial No. 273,105. PUBLISHED DECEMBER 17, 1929. Class 46.

267,921. BOTTLE CAPS. CUPPLES COMPANY, MANUFACTURERS, St. Louis, Mo.
Filed September 28, 1928. Serial No. 273,100. PUBLISHED DECEMBER 10, 1929. Class 50.

267,922. CONCRETE MOLDED PRODUCTS—NAMELY, LIGHT-WEIGHT TILE AND BLOCKS. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed September 6, 1928. Serial No. 272,013. PUBLISHED DECEMBER 17, 1929. Class 12.

267,923. SEED POTATOES. GEORGE M. JENKINS, Hemingford, Nebr.
Filed September 6, 1928. Serial No. 271,969. PUBLISHED DECEMBER 3, 1929. Class 1.

267,924. ROAD-PATCHING MATERIALS OF AN ASPHALT NATURE. AMIESITE ASPHALT COMPANY OF AMERICA, Philadelphia, Pa.
Filed September 1, 1928. Serial No. 271,848. PUBLISHED DECEMBER 17, 1929. Class 12.

267,925. CERTAIN NAMED TREATED TEXTILE GOODS. PARA RUBBER COMPANY, Newark, N. J.
Filed August 24, 1928. Serial No. 271,505. PUBLISHED NOVEMBER 19, 1929. Class 50.

267,926. CERTAIN NAMED GOODS MADE OF CHEMICALLY TREATED FABRICS. PARA RUBBER COMPANY, Newark, N. J.
Filed August 24, 1928. Serial No. 271,504. PUBLISHED DECEMBER 10, 1929. Class 50.

267,927. ROSIN. THE NEWPORT COMPANY, Carrollville, Wis.
Filed August 6, 1928. Serial No. 270,645. PUBLISHED DECEMBER 3, 1929. Class 1.

267,928. ROSIN. THE NEWPORT COMPANY, Carrollville, Wis.
Filed August 6, 1928. Serial No. 270,643. PUBLISHED DECEMBER 3, 1929. Class 1.

267,929. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif.
Filed July 13, 1928. Serial No. 269,511. PUBLISHED SEPTEMBER 18, 1928. Class 46.

267,930. BATHING SHOES. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed October 19, 1929. Serial No. 291,276. PUBLISHED DECEMBER 10, 1929. Class 39.

267,931. DOOR HOLDERS. GLYNN-JOHNSON CORPORATION, La Porte, Ind.
Filed October 19, 1929. Serial No. 291,272. PUBLISHED DECEMBER 17, 1929. Class 13.

267,932. OVERHEAD DOOR HOLDERS. GLYNN-JOHNSON CORPORATION, La Porte, Ind.
Filed October 19, 1929. Serial No. 291,271. PUBLISHED DECEMBER 17, 1929. Class 13.

267,933. MEN'S FELT HATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 18, 1929. Serial No. 291,241. PUBLISHED DECEMBER 10, 1929. Class 39.

267,934. RUBBER HEELS, SOLES, AND HALF SOLES. HANOVER RUBBER COMPANY, West Hanover, Mass.
Filed October 17, 1929. Serial No. 291,198. PUBLISHED DECEMBER 10, 1929. Class 39.

267,935. WOOD LATH. DAVY FUEL & SUPPLY COMPANY, Detroit, Mich.
Filed April 22, 1929. Serial No. 282,775. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,936. CITRUS OILS AND CITRIC ACID. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif.
Filed April 22, 1929. Serial No. 282,770. PUBLISHED DECEMBER 17, 1929. Class 6.

267,937. STAPLES FOR FASTENING PAPERS, FOR TACKING SHADES ON ROLLERS, FOR TACKING SCREENS ON FRAMES, AND FOR FASTENING TAGS ON BOXES. J. B. CROFOOT COMPANY, Chicago, Ill.
Filed April 20, 1929. Serial No. 282,702. PUBLISHED DECEMBER 17, 1929. Class 13.

267,938. PLASTER. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed April 13, 1929. Serial No. 282,382. PUBLISHED DECEMBER 10, 1929. Class 12.

267,939. PHOTOGRAPHIC CAMERAS AND PHOTOGRAPHIC ENLARGING DEVICES. JESSE HOYT JOHNSON, Denver, Colo.
Filed April 13, 1929. Serial No. 282,357. PUBLISHED AUGUST 13, 1929. Class 26.

267,940. FRESH EGGS. YOUNGLOVE GROCERY COMPANY, doing business as United Purity Stores, Tacoma, Wash.
Filed April 12, 1929. Serial No. 282,332. PUBLISHED DECEMBER 17, 1929. Class 46.

267,941. LAMP STANDS AND BASES, NOT INCLUDING LAMPS. REMBRANDT LAMP CORPORATION, Chicago, Ill.
Filed April 9, 1929. Serial No. 282,133. PUBLISHED DECEMBER 17, 1929. Class 32.

267,942. MACHINES AND MACHINE ATTACHMENTS. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y.
Filed April 8, 1929. Serial No. 282,022. PUBLISHED DECEMBER 17, 1929. Class 28.

267,943. FURNACES AND PARTS THEREOF, MUFFLES AND PARTS THEREOF, ETC. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y.
Filed April 8, 1929. Serial No. 282,021. PUBLISHED DECEMBER 17, 1929. Class 34.

267,944. EAU DE COLOGNE, PERFUME EXTRACTS, TOILET WATERS, AND PERFUMERY. PARFUMERIE ROGER ET GALLET, SOCIÉTÉ ANONYME, Paris, France.
Filed March 22, 1929. Serial No. 281,159. PUBLISHED DECEMBER 10, 1929. Class 6.

267,945. SHOES MADE OF LEATHER AND FABRIC AND COMBINATIONS OF LEATHER, RUBBER, AND FABRIC. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed March 20, 1929. Serial No. 281,056. PUBLISHED DECEMBER 3, 1929. Class 39.

267,946. SOLUTION FOR USE IN WAVING HAIR. ARLETTE, INC., Louisville, Ky.
Filed March 19, 1929. Serial No. 280,980. PUBLISHED NOVEMBER 19, 1929. Class 6.

267,947. FACE POWDER AND LOTIONS. AMERICAN YVETTE COMPANY, INC., New York, N. Y.
Filed March 15, 1929. Serial No. 280,753. PUBLISHED DECEMBER 17, 1929. Class 6.

267,948. CHOCOLATE-FLAVORED EMULSION OF AGAR-AGAR AND MINERAL OIL. WILL G. LIDLEY, doing business as The Lidley Laboratories, San Francisco, Calif.
Filed March 9, 1929. Serial No. 280,505. PUBLISHED DECEMBER 3, 1929. Class 6.

267,949. DOUGHNUTS, CRULLERS, AND FRIED CAKES. JOE LOWE CORPORATION, Brooklyn, N. Y.
Filed March 6, 1929. Serial No. 280,338. PUBLISHED DECEMBER 17, 1929. Class 46.

267,950. SALAD DRESSINGS. RUSSELL'S MAYONNAISE CO. INC., New York, N. Y.
Filed March 5, 1929. Serial No. 280,285. PUBLISHED DECEMBER 17, 1929. Class 46.

267,951. SHEET-METAL FLASHING. THE CHENEY COMPANY, Melrose, Mass.
Filed March 2, 1929. Serial No. 280,167. PUBLISHED DECEMBER 3, 1929. Class 12.

267,952. CARTONS. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed March 1, 1929. Serial No. 280,138. PUBLISHED DECEMBER 17, 1929. Class 2.

267,953. WATERPROOFING COMPOSITIONS FOR CONSTRUCTION MATERIALS. JOSE A. PATIÑO, Paramus and Rochelle Park, N. J.
Filed February 26, 1929. Serial No. 279,953. PUBLISHED NOVEMBER 26, 1929. Class 12.

267,954. BOTTLE AND JAR CAPS. FERDINAND GUTMANN & CO., Brooklyn, N. Y.
Filed February 25, 1929. Serial No. 279,846. PUBLISHED DECEMBER 17, 1929. Class 50.

267,955. FOLDING CHAIRS, NOT INCLUDING DENTAL, MEDICAL, AND SURGICAL APPLIANCES. LOUIS RASTETTER & SONS, Fort Wayne, Ind.
Filed February 20, 1929. Serial No. 279,684. PUBLISHED DECEMBER 17, 1929. Class 32.

267,956. PURIFIED WOOL FAT PREPARED FOR MEDICAL AND PHARMACEUTICAL USE. MERCK & CO., INC., Rahway, N. J.
Filed August 22, 1929. Serial No. 288,860. PUBLISHED DECEMBER 10, 1929. Class 6.

267,957. ANTIFREEZE LIQUID FOR AUTOMOBILE RADIATORS. THE R. M. HOLLINGSHEAD CO., Camden, N. J.
Filed August 22, 1929. Serial No. 288,857. PUBLISHED DECEMBER 10, 1929. Class 6.

267,958. COD-LIVER OIL. CHARLES BOUTET, Paris, France.
Filed August 22, 1929. Serial No. 288,843. PUBLISHED DECEMBER 17, 1929. Class 6.

267,959. NONELECTRIC ROAD SIGNS. AMERICAN HIGHWAY SERVICE, Pineville, Ky.
Filed August 20, 1929. Serial No. 288,738. PUBLISHED DECEMBER 3, 1929. Class 50.

267,960. INSECTICIDE. ZOPHAR MILLS, INC., Brooklyn, N. Y.
Filed July 1, 1929. Serial No. 286,466. PUBLISHED SEPTEMBER 17, 1929. Class 6.

267,961. CERTAIN NAMED WORKS OF ART. ALEXANDER ARCHIPENKO, New York, N. Y.
Filed June 24, 1929. Serial No. 286,021. PUBLISHED DECEMBER 3, 1929. Class 50.

267,962. PREPARATION TO BE USED AS A HAIR TONIC, CLEANSING AND KEEPING THE HAIR IN PLACE, FOR STOPPING AND PREVENTING DANDRUFF. MONTICELLO DRUG COMPANY, Jacksonville, Fla.
Filed August 22, 1929. Serial No. 288,863. PUBLISHED DECEMBER 10, 1929. Class 6.

267,963. ECZEMA LOTIONS, EMULSION OF COD-LIVER OIL, INSECTICIDES, ETC. WEINBERGER DRUG STORES, INC., Cleveland, Ohio.
Filed August 14, 1929. Serial No. 288,529. PUBLISHED NOVEMBER 19, 1929. Class 6.

267,964. CHEMICAL PREPARATION USED IN CONNECTION WITH STEAM-FITTING AND PLUMBING SUPPLIES. EDWARD M. BRATTER, New York, N. Y., assignor to Federated Laboratories, Inc., a Corporation of New York.
Filed August 14, 1929. Serial No. 288,517. PUBLISHED DECEMBER 17, 1929. Class 6.

267,965. PREPARATION FOR USE IN THE TREATMENT OF THE HAIR AND SCALP. JOSEPH ELMER BRYANT, Los Angeles, Calif.
Filed August 13, 1929. Serial No. 288,459. PUBLISHED DECEMBER 3, 1929. Class 6.

267,966. COLD TABLETS. KNOX COMPANY, Kansas City, Mo.
Filed July 30, 1929. Serial No. 287,876. PUBLISHED DECEMBER 17, 1929. Class 6.

267,967. TABLETS FOR MEDICINAL PURPOSES, TO BE TAKEN INTERNALLY FOR STOMACH AND INTESTINAL TROUBLES. JOHN EDWIN CUMMINGS, Philadelphia, Pa.
Filed July 10, 1929. Serial No. 286,871. PUBLISHED DECEMBER 10, 1929. Class 6.

267,968. LIQUID PREPARATION FOR STOPPING LEAKS IN RADIATORS. THE PEP BOYS—MANNY, MOE & JACK, doing business as Varsity Products Company, Philadelphia, Pa.
Filed July 6, 1929. Serial No. 286,714. PUBLISHED DECEMBER 17, 1929. Class 6.

267,969. TIRE-REPAIR PLUGS MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass.
Filed September 17, 1929. Serial No. 289,887. PUBLISHED DECEMBER 17, 1929. Class 35.

267,970. LORGNETTES AND OPERA GLASSES, COMPASSES, AND MAGNIFYING GLASSES, RULES AND RULERS, MEASURING CUPS, MOTION-PICTURE MACHINES, PEWTER MEASURES. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 13, 1929. Serial No. 289,720. PUBLISHED DECEMBER 17, 1929. Class 26.

267,971. SAFETY-RAZOR BLADES. THE BOYE NEEDLE CO., Chicago, Ill.
Filed September 13, 1929. Serial No. 289,709. PUBLISHED DECEMBER 17, 1929. Class 28.

267,972. SLICING MACHINERY. AMERICAN SLICING MACHINE COMPANY, Chicago, Ill.
Filed September 12, 1929. Serial No. 289,660. PUBLISHED DECEMBER 17, 1929. Class 28.

267,973. FIELD, GARDEN, AND VEGETABLE SEEDS. GOLDBERG SEED & FEED COMPANY, Fargo, N. Dak.
Filed September 9, 1929. Serial No. 289,514. PUBLISHED NOVEMBER 19, 1929. Class 1.

267,974. ASTRINGENTS, ASTRINGENT CERATES, BLEACH AND BEAUTY CREAMS, ETC. PLEXO PREPARATIONS, INC., New York, N. Y.
Filed August 31, 1929. Serial No. 289,248. PUBLISHED DECEMBER 3, 1929. Class 6.

267,975. PREPARATION USED FOR A SCALP CLEANER AND REMOVING DANDRUFF AND A TONIC TO THE SCALP. MONTICELLO DRUG COMPANY, Jacksonville, Fla.
Filed August 22, 1929. Serial No. 288,864. PUBLISHED DECEMBER 10, 1929. Class 6.

267,976. BOOTS AND SHOES OF LEATHER, CANVAS, OR FABRIC OR COMBINATIONS THEREOF. J. N. ADAM & CO., Buffalo, N. Y.
Filed July 19, 1929. Serial No. 287,822. PUBLISHED DECEMBER 3, 1929. Class 39.

267,977. LEATHER SHOES. GLASER SHOE COMPANY, San Francisco, Calif.
Filed July 17, 1929. Serial No. 287,250. PUBLISHED DECEMBER 17, 1929. Class 39.

267,978. LEATHER SHOES AND FELT SLIPPERS. JULIUS GOLDSTEIN & SONS, Boston, Mass.
Filed July 15, 1929. Serial No. 287,139. PUBLISHED DECEMBER 3, 1929. Class 39.

267,979. EGG NOODLES, EGG BARLEY, AND FLAKES (CUT NOODLES). ELKA NOODLE CORPORATION, Mapeth, N. Y.
Filed July 13, 1929. Serial No. 287,057. PUBLISHED DECEMBER 17, 1929. Class 46.

267,980. LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. OTTO WHITE, doing business as White's Shoe Shop, Spokane, Wash.
Filed June 25, 1929. Serial No. 286,143. PUBLISHED DECEMBER 3, 1929. Class 39.

267,981. VEGETABLE FOOD SUBSTANCE OBTAINED FROM CARRAGHEEN USED IN MAKING DESERTS AND DELICACIES. WHIFFEN & SONS LIMITED, London, England.
Filed June 25, 1929. Serial No. 286,142. PUBLISHED DECEMBER 17, 1929. Class 46.

267,982. WOOLEN GOODS IN THE PIECE AND IN CUT LENGTHS. S. STEIN & CO., New York, N. Y.
Filed June 25, 1929. Serial No. 286,138. PUBLISHED DECEMBER 17, 1929. Class 42.

267,983. DARNING AND MENDING SILK AND SEWING SILK. HEMINWAY & BARTLETT SILK CO., Watertown, Conn.
Filed June 17, 1929. Serial No. 285,712. PUBLISHED DECEMBER 17, 1929. Class 43.

267,984. CERTAIN NAMED WEARING APPAREL. WILLIAM MASON (LEICESTER) LIMITED, Leicester, England.
Filed June 7, 1929. Serial No. 285,241. PUBLISHED DECEMBER 17, 1929. Class 39.

267,985. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,989. PUBLISHED DECEMBER 10, 1929. Class 12.

267,986. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,987. PUBLISHED DECEMBER 10, 1929. Class 12.

267,987. CERTAIN NAMED CONSTRUCTION MATERIAL. THE MURALO COMPANY, INC., New Brighton, N. Y.
Filed September 13, 1929. Serial No. 289,758. PUBLISHED DECEMBER 10, 1929. Class 12.

267,988. COAT, TROUSER, AND SKIRT HANGERS; PENNANTS, TIE RACKS, SHOE-TREES, AND BLACKBOARDS. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 13, 1929. Serial No. 289,725. PUBLISHED DECEMBER 17, 1929. Class 50.

267,989. EXTENSIBLE CURTAINS. FOLDING PRODUCTS CORPORATION, Chicago, Ill.
Filed September 12, 1929. Serial No. 289,673. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,990. COAL. BLACKWOOD COAL & COKE COMPANY, Philadelphia, Pa.
Filed September 10, 1929. Serial No. 289,565. PUBLISHED NOVEMBER 26, 1929. Class 1.

267,991. CERTAIN NAMED CONSTRUCTION MATERIALS. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed August 29, 1929. Serial No. 289,168. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,992. COMPOSITION WAX FOR STUCCO WALLS. CALIFORNIA STUCCO PRODUCTS COMPANY OF MISSOURI, Kansas City, Mo.
Filed August 26, 1929. Serial No. 289,004. PUBLISHED DECEMBER 3, 1929. Class 12.

267,993. MATERIAL COMPOSED OF BRAIDED STRIPS OF LEATHER WITH A CLOTH BACKING. BELGIAN LEATHER CORPORATION, New York, N. Y.
Filed August 26, 1929. Serial No. 289,000. PUBLISHED DECEMBER 10, 1929. Class 50.

267,994. WHEAT FLOUR AND SELF-RISING FLOUR. H. C. COLE MILLING COMPANY, Chester, Ill.
Filed August 17, 1929. Serial No. 288,638. PUBLISHED DECEMBER 17, 1929. Class 46.

267,995. CERTAIN NAMED CONSTRUCTION MATERIALS. WILLIAM W. LILLARD, New York, N. Y.
Filed July 6, 1929. Serial No. 286,688. PUBLISHED NOVEMBER 19, 1929. Class 12.

267,996. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed November 2, 1929. Serial No. 291,943. PUBLISHED DECEMBER 17, 1929. Class 9.

267,997. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed November 2, 1929. Serial No. 291,941. PUBLISHED DECEMBER 17, 1929. Class 9.

267,998. THICKENER FOR FOODS SUCH AS GRAVIES, SALADS, SAUCES, SOUPS, ETC. FRUITSIPS, INCORPORATED, Milwaukee, Wis.
Filed November 2, 1929. Serial No. 291,916. PUBLISHED DECEMBER 17, 1929. Class 46.

267,999. HAIR NETS. SAMUEL BONAT & BROTHER, New York, N. Y.
Filed October 29, 1929. Serial No. 291,713. PUBLISHED DECEMBER 17, 1929. Class 42.

268,000. PEANUT BUTTER. THE ROGERS COMPANY, Seattle, Wash.
Filed October 23, 1929. Serial No. 291,477. PUBLISHED DECEMBER 17, 1929. Class 46.

268,001. OLIVES. C. M. GIFFORD & SONS, San Diego, Calif.
Filed October 23, 1929. Serial No. 291,448. PUBLISHED DECEMBER 17, 1929. Class 46.

268,002. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed October 21, 1929. Serial No. 291,372. PUBLISHED DECEMBER 10, 1929. Class 9.

268,003. MARMALADES, HONEY, PEACHES, ETC. LUSH'US PRODUCTS CO., Chicago, Ill., assignor to Lush'us Products Company, Chicago, Ill., a Corporation of Illinois.
Filed October 19, 1929. Serial No. 291,282. PUBLISHED DECEMBER 17, 1929. Class 46.

268,004. HOSIERY. ROMAN STRIPE MILLS INC., Easton, Pa.
Filed October 18, 1929. Serial No. 291,239. PUBLISHED DECEMBER 17, 1929. Class 39.

268,005. CANE SUGARS. IMPERIAL SUGAR CO., Sugar Land, Tex.
Filed October 18, 1929. Serial No. 291,222. PUBLISHED DECEMBER 17, 1929. Class 46.

268,006. COTTON PIECE GOODS. EMILS MEYER & CO., doing business as Haslin Mills, New York, N. Y.
Filed September 24, 1929. Serial No. 290,187. PUBLISHED NOVEMBER 5, 1929. Class 42.

268,007. REFRIGERATORS AND REFRIGERATOR CABINETS. GUSTAV J. GRUENDLER MFG. CO., INC., St. Louis, Mo.
Filed October 10, 1929. Serial No. 290,896. PUBLISHED DECEMBER 17, 1929. Class 31.

268,008. FRESH HOTHOUSE CUCUMBERS. THE COLORADO FLORAL COMPANY, INCORPORATED, Denver, Colo.
Filed October 7, 1929. Serial No. 290,744. PUBLISHED DECEMBER 17, 1929. Class 46.

268,009. HANDKERCHIEFS. QUALITY MANUFACTURING COMPANY, Asheville, N. C.
Filed September 30, 1929. Serial No. 290,426. PUBLISHED DECEMBER 17, 1929. Class 42.

268,010. LADIES' SHOES OF LEATHER OR CLOTH. JOHNSON-STEPHENS & SHINKLE SHOE COMPANY, St. Louis, Mo.
Filed September 19, 1929. Serial No. 289,974. PUBLISHED DECEMBER 17, 1929. Class 39.

268,011. PAJAMAS AND PAJAMA BELTS. ERNEST SIMONS MANUFACTURING COMPANY, Port Chester, N. Y.
Filed September 16, 1929. Serial No. 289,846. PUBLISHED NOVEMBER 26, 1929. Class 39.

268,012. SHOES CONSTRUCTED OF LEATHER, FABRIC, OR COMBINATIONS OF THOSE MATERIALS. JOHN WANAMAKER NEW YORK, New York, N. Y.
Filed September 14, 1929. Serial No. 289,809. PUBLISHED DECEMBER 17, 1929. Class 39.

268,013. NETTED CAPS. GIBBS & COMPANY, Chicago, Ill.
Filed September 14, 1929. Serial No. 289,788. PUBLISHED DECEMBER 10, 1929. Class 39.

268,014. FABRIC GLOVES. VAN RAALTE COMPANY, New York, N. Y.
Filed September 12, 1929. Serial No. 289,698. PUBLISHED DECEMBER 3, 1929. Class 39.

268,015. LINEN TABLECLOTHS AND LINEN NAPKINS. GRAHAM MACPHERSON, New York, N. Y.
Filed September 7, 1929. Serial No. 289,469. PUBLISHED DECEMBER 17, 1929. Class 42.

268,016. SUGAR-BEET SEEDS. QUERFURTER ZUCKERRÜBENSAMENZUCHT BERGMANN & CO. G. M. B. H., Querfurt, Germany.
Filed September 30, 1929. Serial No. 290,428. PUBLISHED DECEMBER 10, 1929. Class 1.

268,017. PORTLAND CEMENT. PENNSYLVANIA-DIXIE CEMENT CORPORATION, Nazareth, Pa.
Filed September 24, 1929. Serial No. 290,195. PUBLISHED DECEMBER 10, 1929. Class 12.

268,018. FIRE BRICK. A. P. GREEN FIRE BRICK COMPANY, Mexico, Mo.
Filed September 23, 1929. Serial No. 290,125. PUBLISHED DECEMBER 10, 1929. Class 12.

268,019. MUD-LADEN MATERIAL FOR SEALING OIL AND GAS WELLS. JOHN R. DALBY, doing business as The Pyramid Company, Rawlins, Wyo.
Filed September 23, 1929. Serial No. 290,118. PUBLISHED DECEMBER 10, 1929. Class 12.

268,020. PORTLAND CEMENT. PENNSYLVANIA-DIXIE CEMENT CORPORATION, Nazareth, Pa.
Filed September 21, 1929. Serial No. 290,082. PUBLISHED DECEMBER 10, 1929. Class 12.

268,021. ROUGH AND DRESSED LUMBER BOARDS. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,993. PUBLISHED DECEMBER 17, 1929. Class 12.

268,022. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,991. PUBLISHED DECEMBER 10, 1929. Class 12.

268,023. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,988. PUBLISHED DECEMBER 10, 1929. Class 12.

268,024. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,986. PUBLISHED DECEMBER 10, 1929. Class 12.

268,025. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,985. PUBLISHED DECEMBER 10, 1929. Class 12.

268,026. LEATHER. FRED RUEPING LEATHER CO., Fond Du Lac, Wis.
Filed September 5, 1929. Serial No. 289,368. PUBLISHED NOVEMBER 19, 1929. Class 1.

268,027. BRASSIÈRES. MABEL NAAR, doing business as Virginale Brassiere, New York, N. Y.
Filed October 28, 1929. Serial No. 291,686. PUBLISHED DECEMBER 10, 1929. Class 39.

268,028. MEN'S AND WOMEN'S FUR-FELT HATS, COMMONLY CALLED FELT HATS. G. W. ALEXANDER & CO., INC., Reading, Pa.
Filed October 25, 1929. Serial No. 291,543. PUBLISHED DECEMBER 10, 1929. Class 39.

268,029. LEATHER BOOTS AND SHOES AND SHOES MANUFACTURED FROM LEATHER AND FABRICS. HAYNES-HENSON SHOE COMPANY, Knoxville, Tenn.
Filed October 28, 1929. Serial No. 291,451. PUBLISHED DECEMBER 10, 1929. Class 39.

268,030. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF RUBBER, FABRIC, LEATHER, AND COMBINATIONS THEREOF. ELLIS-KATZ SHOE FACTORIES, INC., Los Angeles, Calif.
Filed October 28, 1929. Serial No. 291,443. PUBLISHED DECEMBER 17, 1929. Class 39.

268,031. ALL KIND OF WATCHES AND PARTS THEREOF. SWITANA WATCH COMPANY LTD., Grenchen, Switzerland.
Filed October 21, 1929. Serial No. 291,365. PUBLISHED DECEMBER 17, 1929. Class 27.

268,032. LEATHER BOOTS AND SHOES. HEYWOOD BOOT & SHOE CO., Worcester, Mass.
Filed October 21, 1929. Serial No. 291,335. PUBLISHED DECEMBER 10, 1929. Class 39.

268,033. RUBBER HEELS AND SOLES FOR SHOES. WEBSTER RUBBER COMPANY, Sabattus, Me.
Filed October 19, 1929. Serial No. 291,305. PUBLISHED DECEMBER 10, 1929. Class 39.

268,034. SPONGES. MAURICE LEVY, New York, N. Y.
Filed October 14, 1929. Serial No. 291,061. PUBLISHED DECEMBER 17, 1929. Class 1.

268,035. QUARRY TILE. UNITED STATES QUARRY TILE CO., East Sparta, Ohio.
Filed October 12, 1929. Serial No. 291,033. PUBLISHED DECEMBER 17, 1929. Class 12.

268,036. SHOE LEATHER. C. D. KEPNER LEATHER CO., Boston, Mass.
Filed October 9, 1929. Serial No. 290,839. PUBLISHED SEPTEMBER 17, 1929. Class 1.

268,037. STOCK MEDICINE FOR USE IN PREVENTING CONTAGIOUS ABORTION. ANNIE JOHNSON, Riceville, Iowa.
Filed September 24, 1929. Serial No. 290,181. PUBLISHED DECEMBER 3, 1929. Class 6.

268,038. INHALANT FOR RELIEVING HEAD COLDS, NASAL CATARRH, AND OTHER INFLAMMATIONS OF THE RESPIRATORY PASSAGES. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed September 23, 1929. Serial No. 290,137. PUBLISHED DECEMBER 3, 1929. Class 6.

268,039. NATURAL ROCK ASPHALT PAVING PREPARATION. UVALDE ROCK ASPHALT COMPANY, San Antonio, Tex.
Filed September 21, 1929. Serial No. 290,098. PUBLISHED DECEMBER 17, 1929. Class 12.

268,040. SEED GRAINS SUCH AS RYE, OATS, AND CORN. W. P. BELL & COMPANY, Nashville, Tenn.
Filed September 20, 1929. Serial No. 290,004. PUBLISHED NOVEMBER 19, 1929. Class 1.

268,041. ROUGH AND DRESSED LUMBER. W. M. RITTER LUMBER COMPANY, Columbus, Ohio.
Filed September 19, 1929. Serial No. 289,994. PUBLISHED DECEMBER 10, 1929. Class 12.

268,042. RUBBERIZED FABRICS. HAARTZ-MASON RUBBER MANUFACTURING COMPANY, Watertown, Mass.
Filed September 19, 1929. Serial No. 289,971. PUBLISHED NOVEMBER 19, 1929. Class 50.

268,043. RUBBER FLOOR MATS. ENO RUBBER CORPORATION, Los Angeles, Calif.
Filed September 17, 1929. Serial No. 289,881. PUBLISHED NOVEMBER 19, 1929. Class 50.

268,044. RUBBER COIN MATS. ENO RUBBER CORPORATION, Los Angeles, Calif.
Filed September 17, 1929. Serial No. 289,880. PUBLISHED NOVEMBER 19, 1929. Class 50.

268,045. PREPARATION USED FOR THE PURPOSE OF ELIMINATING AND REMOVING RUST FROM BOILERS AND STEAM PIPES. PERC EDWARDS, doing business as Standard Engineering & Lubricating Co., New York, N. Y.
Filed September 16, 1929. Serial No. 289,828. PUBLISHED DECEMBER 17, 1929. Class 6.

268,046. CHEMICAL COMPOSITIONS FOR COMBATING INSECTS. AIR-WAY ELECTRIC APPLIANCE CORPORATION, Toledo, Ohio.
Filed September 16, 1929. Serial No. 289,812. PUBLISHED DECEMBER 17, 1929. Class 6.

268,047. DRUGS DERIVED FROM PLANTS FOR THE TREATMENT OF CONSTIPATION, RHEUMATISM, AND ARTERIOSCLEROSIS. FRIEDRICH GLÜCKS, doing business as Friedrich Glücks, Spesial-Kräutertee-Handlung, Berlin, Germany.
Filed September 11, 1929. Serial No. 289,622. PUBLISHED DECEMBER 10, 1929. Class 6.

268,048. COW MEDICINE. BACON FORMULA COMPANY, Putnam, Conn.
Filed October 14, 1929. Serial No. 291,045. PUBLISHED DECEMBER 10, 1929. Class 6.

268,049. SKIN LOTION AND FACE CREAM. ALBERT B. PLATER, doing business as Lovlitone Company, Grosse Pointe Park, Mich.
Filed October 11, 1929. Serial No. 290,986. PUBLISHED DECEMBER 10, 1929. Class 6.

268,050. ARTIFICIAL LEATHER. F. S. CARR COMPANY, Boston, Mass.
Filed October 9, 1929. Serial No. 290,818. PUBLISHED DECEMBER 17, 1929. Class 50.

268,051. MOUTH-WASH PREPARATION. WALGREEN CO., doing business as Valentine Laboratories, Inc. Chicago, Ill.
Filed October 3, 1929. Serial No. 290,634. PUBLISHED DECEMBER 3, 1929. Class 6.

268,052. LINIMENT AND ANTISEPTIC-PAD COMBINATION FOR USE ON POULTRY. CHARLES T. TRENGOVE, doing business as Trengove Poultry Farm, Portland, Oreg.
Filed October 3, 1929. Serial No. 290,628. PUBLISHED DECEMBER 3, 1929. Class 6.

268,053. MOUTH WASH. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed October 3, 1929. Serial No. 290,585. PUBLISHED DECEMBER 3, 1929. Class 6.

268,054. SALT. JOSEPH DI SANTO, doing business as Di Santo & Co., Duluth, Minn.
Filed October 3, 1929. Serial No. 290,555. PUBLISHED DECEMBER 3, 1929. Class 6.

268,055. PLYWOOD. UNITED STATES PLYWOOD CO. INC., New York, N. Y.
Filed September 28, 1929. Serial No. 290,384. PUBLISHED DECEMBER 10, 1929. Class 12.

268,056. POLES, RAILROAD CROSSTIES, AND LUMBER TREATED WITH WOOD PRESERVATIVE. CURTIN-HOWE CORPORATION, New York, N. Y.
Filed September 25, 1929. Serial No. 290,209. PUBLISHED DECEMBER 17, 1929. Class 12.

268,057. WAXLIKE SUBSTANCE CONTAINING AS ACTIVE INGREDIENT A MIXTURE OF ESTERS OF CHOLESTEROL, USEFUL AS AN EMULSIFYING AGENT FOR PHARMACEUTICAL AND COSMETIC PRODUCTS. P. BEIERSDORF & CO. INC., New York, N. Y.
Filed September 25, 1929. Serial No. 290,206. PUBLISHED DECEMBER 10, 1929. Class 6.

268,058. MEDICINAL PRODUCT. LABORATORIOS MANUELL, S. A., Mexico, Mexico.
Filed July 5, 1929. Serial No. 286,642. PUBLISHED DECEMBER 3, 1929. Class 6.

268,059. MEDICINAL PREPARATION USED IN THE TREATMENT OF CANCER AND CHRONIC SORES. BULLION AND HUEY, Mount Pleasant, Tenn.
Filed June 26, 1929. Serial No. 286,153. PUBLISHED DECEMBER 10, 1929. Class 6.

268,060. OINTMENT FOR ECZEMA AND SORES. BRIDGET GLASS, Johnstown, Pa.
Filed June 20, 1929. Serial No. 285,856. PUBLISHED DECEMBER 10, 1929. Class 6.

268,061. SYNTHETIC-RESIN MOLDING POWDER. WILBUR & WILLIAMS COMPANY, Boston, Mass.
Filed June 14, 1929. Serial No. 285,611. PUBLISHED DECEMBER 10, 1929. Class 6.

CARNEGIE LIBRARY OF ATLANTA

268,062. FLOUR, CEREAL, CORN MEAL, ETC. GO-FAR CEREAL MILLS, Fargo, N. Dak.
Filed July 6, 1929. Serial No. 286,676. PUBLISHED DECEMBER 17, 1929. Class 46.

268,063. ONION SEED. T. M. REID TENERIFFE ONION SEED COMPANY, Laredo, Tex.
Filed July 2, 1929. Serial No. 286,505. PUBLISHED NOVEMBER 19, 1929. Class 1.

268,064. TREATED DIATOMACEOUS EARTH. AMERICAN DIATOM COMPANY, Gloucester City, N. J., and Philadelphia, Pa.
Filed June 29, 1929. Serial No. 286,854. PUBLISHED NOVEMBER 19, 1929. Class 1.

268,065. TREATED DIATOMACEOUS EARTH. AMERICAN DIATOM COMPANY, Gloucester City, N. J., and Philadelphia, Pa.
Filed June 29, 1929. Serial No. 286,853. PUBLISHED NOVEMBER 19, 1929. Class 1.

268,066. COMPOSITION OF RESINOUS MATTER. REGALITE CORPORATION OF AMERICA, New York, N. Y.
Filed June 6, 1929. Serial No. 285,171. PUBLISHED DECEMBER 10, 1929. Class 1.

268,067. BAKERY PRODUCTS—NAMELY, BREAD. P. CARIOLA & CO., doing business as The Stick-O-Bread Co., Chicago, Ill.
Filed June 4, 1929. Serial No. 285,012. PUBLISHED DECEMBER 17, 1929. Class 46.

268,068. BOOTS AND SHOES OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS THEREOF. SINSHEIMER BRO. & CO., Chicago, Ill.
Filed September 5, 1929. Serial No. 289,374. PUBLISHED DECEMBER 3, 1929. Class 39.

268,069. BOOTS AND SHOES OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS THEREOF. SINSHEIMER BRO. & CO., Chicago, Ill.
Filed September 5, 1929. Serial No. 289,373. PUBLISHED DECEMBER 3, 1929. Class 39.

268,070. CORSETS. FRANCO CORSET COMPANY, New York, N. Y.
Filed August 28, 1929. Serial No. 288,910. PUBLISHED DECEMBER 10, 1929. Class 39.

268,071. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FABRIC, AND/OR COMBINATIONS THEREOF. JOHN RUNYON BURNS, doing business as J. R. Burns Shoe Co., Endicott, N. Y.
Filed August 20, 1929. Serial No. 288,740. PUBLISHED DECEMBER 17, 1929. Class 39.

268,072. WATERPROOF CLOTHING FOR MEN, WOMEN, AND CHILDREN—NAMELY, RAINCOATS, CAPES, JACKETS, OVERALLS, HATS, CAPS, AND PONCHOS. THE ALLIGATOR COMPANY, Wilmington, Del., and St. Louis, Mo.
Filed August 19, 1929. Serial No. 288,684. PUBLISHED DECEMBER 17, 1929. Class 39.

268,073. CERTAIN NAMED WEARING APPAREL. L. BAMBERGER & CO., Newark, N. J.
Filed August 17, 1929. Serial No. 288,683. PUBLISHED DECEMBER 3, 1929. Class 39.

268,074. WORSTED GOODS IN THE PIECE. INTERNATIONAL WORSTED MILLS, New York, N. Y., and Methuen, Mass.
Filed August 15, 1929. Serial No. 288,559. PUBLISHED DECEMBER 17, 1929. Class 42.

268,075. BUTTONS OF NONPRECIOUS METALS. ATLAS TACK CORPORATION, Fairhaven, Mass.
Filed August 3, 1929. Serial No. 288,052. PUBLISHED DECEMBER 10, 1929. Class 40.

268,076. TABLE SYRUP. HAAS, BARUCH & COMPANY, Los Angeles, Calif., assignor to Frank I. Towle, New York, N. Y.
Filed July 29, 1929. Serial No. 287,816. PUBLISHED DECEMBER 17, 1929. Class 46.

268,077. SHOES CONSTRUCTED OF LEATHER, RUBBER, FABRIC, RUBBERIZED FABRIC, AND COMBINATIONS OF THESE MATERIALS. P. & S. SHOE COMPANY, New York, N. Y.
Filed July 19, 1929. Serial No. 287,360. PUBLISHED DECEMBER 17, 1929. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

268,078. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE NORWALK AUTO PARTS COMPANY, Norwalk, Ohio. Filed Jan. 11, 1930. Serial No. 294,703.

LINENDOLL

For Apparatus for Testing Automobile Headlights and Brakes.
Claims use since Oct. 15, 1927.

268,079. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MURPHY PRODUCTS COMPANY, Burlington, Wis. Filed Jan. 11, 1930. Serial No. 294,678.

MURPHY'S FORMULA MINERAL FEED

For Feeds with a High Mineral Content for Cattle, Hogs, Sheep, Poultry, and Horses.
Claims use since June, 1920.

268,080. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERT L. BOWERS, Springfield, Mo. Filed Dec. 23, 1929. Serial No. 294,006.

ANGEL FOOD

For Doughnuts.
Claims use since Sept. 20, 1927.

268,081. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ABRAHAM MERSON, doing business as Midland Color & Chemical Co., New York, N. Y. Filed Nov. 20, 1929. Serial No. 292,634.

Stain-Off

For Dry Cleaner for Removing Paint, Varnish, Oil, Grease, Tar, and Similar Stains from Fabrics.
Claims use since January, 1925.

268,082. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNST T. KREBS, doing business as So-Da-Lax Company, San Francisco, Calif. Filed Nov. 18, 1929. Serial No. 292,536.

SO-DA-LAX

For Fruit Salt Compound Used for Treating Temporary Disturbances of the Stomach, Liver, and Bowels Referred to as "Upset Stomach," "Gas Biliousness," "Nausea," and "Acid Stomach," and for Use as a Laxative.
Claims use since December, 1917.

268,083. (CLASS 37. PAPER AND STATIONERY.) PAUL E. VERNON & Co., New York, N. Y. Filed Nov. 16, 1929. Serial No. 292,512.

VENETIAN COLORED COATED

For Printing and Writing Paper.
Claims use since about January, 1911.

268,084. (CLASS 33. GLASSWARE.) JOSEPH GUNTHER, doing business as J. Gunther & Sons, Kansas City, Mo. Filed Nov. 4, 1929. Serial No. 291,978.

PLATINUM

For Decorated and Undecorated Dinner Ware and Tableware Made Entirely or Partially of Glass.
Claims use since Nov. 2, 1928.

268,085. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KATIE E. DUNN, doing business as The du Four Company, Washington, D. C. Filed Nov. 2, 1929. Serial No. 291,911.

Mme du Four's

For Nail Enamel, Toilet Creams, Skin Lotions and Powders, Perspiration Cream, Skin Salves and Enamels, Milk of Roses (Skin Lotion), Dandruff Cream, Tar Salve, Massage Cream, Cuticle Cream, Peach Bloom (Liquid Rouge), Astringent Lotion, Face Powder, Skin Lotion, Brilliantine, Talcum Powder, Hair Tonic, Adasyma (Depilatory Powder), Rouge, Shampoo Powder, Derma Alba (Cleanser and Bleacher).
Claims use since Aug. 1, 1908.

268,086. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY SAIDINER, doing business as Golden State Macaroni Co., Los Angeles, Calif. Filed July 13, 1929. Serial No. 287,093.

GOLDEN STATE

For Alimentary Pastes.
Claims use since Jan. 1, 1929.

268,087. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE COX PAINT & VARNISH COMPANY, Massillon, Ohio. Filed June 24, 1929. Serial No. 286,037.

MUSTARD

For Paints in Paste and Ready-Mixed Form.
Claims use since May 26, 1927.

268,088. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLD CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo. Filed June 24, 1929. Serial No. 286,082.

COLE'S

For Endocrine Compounds, Ceri-Sal Preparation, Kava Kava, Viburnum Compound, Aceto-Iodin Compound, Benzol-Menthol Compound, Blood-Pressure Compound, Cactus-Convallaria Compound, Copaiba Methyl Compound, Digestive Compound, Diuretic Preparation, Echinacea and Calcium Sulphide Compound, Gels-Aceto Compound, Guaiac-Colchicum Compound, Iodised Lime, Iodo Echinacea Compound, Kava Copaiba, Laxative Cold Compound, Magnesium Salicylate Compound, Biliary Antiseptic Rhus Aromatica Compound, Whooping-Cough Compound, Bromo Viburnum Compound, Cherry Magnesium Compound, Dioscorea Viburnum Compound, Glycero-Phos-Lecithin Compound, Pepsicot Preparation, Strontium Bromide Compound, Boro-Methyl Compound, Antiseptic Oil, Cough Syrup, Yerba Squill Compound, Antiseptic Dressing, Hemorrhoidal Ointment, Itch Ointment, Nasal Salve, Soothing Salve, Plastic Dressing (Medicated Glycerine and Clay Base), Zinc Resorcin Compound, Camphorated Cream Liniment, Guaiacol, Menthol Compound, Acetanilid Compound, Acetyl-Salicylic Acid, Acetyl Salicylic Acid with Strychnine Sulphate, Aconite and Belladonna Compound, Alkaline Antiseptic, Aloin and Cascarin Compound, Ammonium Chloride, Antimalarial Compound, Apiol-Ergotin Compound, Acid Diethylbarbituric, Bismuth Subnitrate, Blaud's Mass Compound, Brom-Acetly, Bromo-Cannabis Compound, Broncho-Expectorant, Calcium Lactate, Calomel-Bismuth Compound, Calomel, Ipecac and Bismuth Compound; Calomel, Ipecac and Soda Compound; Calomel and Phenolphthalein Compound, Calomel, Podophyllin and Soda Compound; Calomel, Rhubarb and Colocynth Compound; Cascara Cathartic Preparation, Cathartic Active Preparation, Cathartic Compound, Cholera-Infantum Compound, Cornus Cantharides Compound, Cough Infant Preparation, Creosote Iodine Compound, Heart Tonic, Antiseptic and Astringent, Douche Tablets, Echinacea and Calcium Sulphide, Fever Compound, Gargle Compound, Gelasphencaf, Hexamethylenamine, Intestinal Antiseptic, Intestinal Digestive; Iron, Quinine, and Strychnine; Laxative Wafers, Menorrhagic Preparation, Menthocaine Preparation, Mercury Iodide Yellow, Milk Sugar (a Concentrate in Tablet Form Containing the Sugar Obtained from Cow's Milk), Bromo-

Viburnum Compound, General Alterative Tonic, Nausea and Antacid Preparation, Nitro-Cactus Compound, Nitroglycerin Compound, Phenacetin and Salol, Phenolphthalein Compound, Phenol Sulphonate Compound, Phenylcinchoninic Acid, Placebo Preparation, Potassium Chlorate, Potassium Iodide, Potassium Permanganate, Quinidine-Convallaria Compound, Quinine Sulphate, Quinine Sulphate and Capsicum, Quinine Camphor Compound, Rhubarb-Peppermint Compound, Salol, Santonin Calomel Compound, Sedative Preparation, Soda-Mint Preparation, Sodium Benzoate, Sodium Salicylate, Strychnine Sulphate, Sulphur Cream Tartar Compound, Three Iodides Preparation, Thyroid Preparation, Thyroid Phosphate Preparation, Triple Arsenates, Triple Bromides, Vaginal Antiseptic and Astringent, Vaginal Tablets, Atropine Sulphate, Chloramine-T Preparation, Codeine Sulphate, Fever Preparation, Nickel Bromide Preparation, Nitroglycerin, Saccharin, Santonin and Calomel, Corpus Lutem, Ephedrine Hydrochloride, Gelasphencaf Preparation, Island of Langerhans, Liver Substance (Purified and Desiccated Livers), Mammary Substance, Migraincaps Preparation, Orchic Substance, Ovarian Substance, Pancreas, Phenacetin Compound, Pheno-Bismuth Compound, Pituitary, Placenta Substance, Quinine-Ergotin Compound, Suprarenal Gland, Thymus, Pituitary Ampules, Cascara Sagrada Aromatic, Tolu, White-Pine Compound, Iodine Tincture, Opium, Aromatic Spirit of Ammonia, Spirit of Ether, Spirit of Peppermint, Spirit of Nitrous Ether, Acetanilid Compound, Ammonium Valerate, Antiasthmatic Elixir; Beef, Iron, and Wine; Benzo-Acetate Elixir, Juniper and Potassium Acetate, Iron and Strychnine; Cascara, Butternut, and Senna Compound, Chloral Bromide Compound, Cornu-Tone Preparation; Ergot, Cotton Root, and Savin Compound; Essence of Pepsin, Gentian Glycerinated Elixir, Glycerophosphates Lime and Soda, Helonias Compound, Lactated Pepsin, Papain Compound, Pepsin and Renin Compound, Peptonate of Iron and Manganese, Phosphorous Nux Vomica and Damiana, Rhubarb Alkaline with Pancreatin and Hydrastis, Rhubarb and Potassium Compound with Papain, Sail-Gels Preparation, Saw Palmetto and Sandal Compound, Sherro Glycerophosphates, Hydriodic Acid, Hypophosphites Compound, Ipecac, Iron Iodide, Palatable Quinine Compound, Red-Clover Compound, Rhubarb Aromatic, Sarpco, Sarsaparilla Compound, Sedatone, Syrup of Squill, Squill Compound, Terpin Creosote Compound, Syrup of Tolu, White Pine Compound, Whooping-Cough Syrup, Yerba Santa Aromatic Syrup, Alkaline Aromatic Solution, Ear Solution, Benedict's Test Solution, Eye Lotion, Dobell's Solution, Fehling's Alkaline Test, Fehling's Copper Test, Ferric Chloride, Glycerite of Boroglycerine, Haine's Test Solution, Lugol's Solution, Oleo-Lyptol Compound, Potassium Arsenite, Rubbing Alcohol, Analgesic Balm, Boro-Zinc Bismuth Compound, Capsi-Mustard Compound, Cold Cream, Zinc Paste, Scarlet Red Ointment (Antiseptic Red Coal-Tar Dye), Zinc Oxide Ointment, Camphor, Glycerin, Litmus Paper, Refined Mineral Oil (an Oil Obtained from Petroleum and Adapted for Internal Use), Collodion Styptic Preparation, Argenta Compound Suppositories, Chloramine Compound Powder, Granucole Powder, Sal-Antacid Powder, and Preparations for the Treatment of Halitosis, Rheumatism, Lumbago, Gout, Neuralgia, Anemia, Painful Menstruation, Asthma, Bronchitis, Headaches, Colds, Cystitis, Flatulence, Dyspepsia, Eczema, Poison Ivy, Irritation of Skin, Follicular Tonsilitis, Sun Cholera.
Claims use since Aug. 11, 1911.

268,089. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) RUBBER AND CELLULOID PRODUCTS COMPANY, Newark, N. J. Filed June 12, 1929. Serial No. 285,473.

PASTEL

For Toothbrushes.
Claims use since Oct. 20, 1928.

268,090. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERS BROS. MILLING CO., San Francisco, Calif. Filed May 20, 1929. Serial No. 284,283.

PROVEN

For Poultry Food.
Claims use since Jan. 1, 1929.

268,091. (CLASS 7. CORDAGE.) HANOVER CORDAGE COMPANY, Hanover, Pa. Filed May 11, 1929. Serial No. 283,864.

"DACCA"

For Tube Rope, Box Twine, Jute Wrapping Twine, and Jute Miller's Twine.
Claims use since Dec. 20, 1928.

268,092. (CLASS 39. CLOTHING.) RICE-STIX DRY GOODS CO., St. Louis, Mo. Filed May 9, 1929. Serial No. 283,756.

Paris

For Hosiery.
Claims use since March, 1910.

268,093. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ARMAND COMPANY, Des Moines, Iowa. Filed Jan. 28, 1929. Serial No. 278,529.

Zanzibar

For Rouge and Lip Stick.
Claims use since June 12, 1928.

268,094. (CLASS 39. CLOTHING.) SPENCER SHOE STORES, INC., Malden, Mass. Filed Dec. 11, 1928. Serial No. 276,584.

The SPENCER SHOE

For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Feb. 28, 1923.

268,095. (CLASS 39. CLOTHING.) JACOB AUSLANDER & SON, INC., New York, N. Y. Filed Dec. 10, 1928. Serial No. 276,510.

"Frenchy"

For Children's and Misses' Hats.
Claims use since Dec. 5, 1928.

268,096. (CLASS 37. PAPER AND STATIONERY.) FREDERICK A. WATKINS, doing business as The Colytt Laboratories, Chicago, Ill. Filed July 3, 1928. Serial No. 269,059.

Redi-Roll

For Telephone Memos.
Claims use since Jan. 13, 1927.

268,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAIN-WELL REMEDY COMPANY, Grafton, W. Va. Filed May 25, 1928. Serial No. 267,009.

PAIN-WELL

For General Tonic, Cough Syrup, Cold Tablets, Aspirin Tablets, Cathartic Pills; Liniment for Rheumatic Pains, Gout, Lumbago, Neuritis, Bruises and Sprains; Ointment for Skin Irritations, Blemishes, Cuts, Eczema, Piles, Boils, Sunburn, and for the Face, Hands, and Lips; Antiseptic Compound, Rheumatic Elixir, and a Preparation for the Throat.
Claims use since July, 1927.

268,098. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DIXON T. HARBISON, doing business as Petroleum Equipment Company, Fort Worth, Tex. Filed Apr. 27, 1928. Serial No. 265,479.

NU-BRONZE

For Steel Valve Balls and Seats.
Claims use since Apr. 1, 1928.

268,099. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DIXON T. HARBISON, doing business as Petroleum Equipment Company, Fort Worth, Tex. Filed Apr. 27, 1928. Serial No. 265,478.

NU-STEEL

For Steel Valve Balls and Seats.
Claims use since Apr. 1, 1928.

268,100. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DIXON T. HARBISON, doing business as Petroleum Equipment Company, Fort Worth, Tex. Filed Apr. 27, 1928. Serial No. 265,477.

NU-ALLOY

For Chrome-Vanadium Steel Valve Balls and Seats.
Claims use since Apr. 1, 1928.

TRADE-MARK REGISTRATIONS RENEWED

76,203. PIANOS OF ALL KINDS. Registered December 28, 1909. CHRISTMAN SONS. Renewed December 28, 1929, to Christman Piano Co., Inc., New York, N. Y., a Corporation of New York, successor.

76,386. SALVES. Registered January 11, 1910. CARL ADOLF THIES. Renewed January 11, 1930, to Thies Salve Company, Charlotte, N. C., a Corporation of North Carolina, successor.

76,391. CERTAIN METAL ARTICLES. Registered January 11, 1910. DOVER STAMPING AND MANUFACTURING COMPANY. Renewed January 11, 1930, to Dover Stamping & Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts, successor.

76,420. CERTAIN MUSICAL INSTRUMENTS AND SUPPLIES. Registered January 11, 1910. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed January 11, 1930.

76,469. A REMEDY FOR HEADACHE AND INDIGESTION. Registered January 18, 1910. M. COOK & CO., Nashville, Tenn. Renewed January 18, 1930.

76,485. CERTAIN PACKINGS. Registered January 18, 1910. FRANKFURTER ASBESTWERKE AKTIENGESELLSCHAFT (VORMALS LOUIS WERTHEIM), Frankfort-on-the-Main, Germany, a Corporation of Germany. Renewed January 18, 1930.

76,531. WHEAT FLOUR. Registered January 25, 1910. CHAS. LACEY PLUMB, Cranford, N. J., and New York, N. Y. Renewed January 25, 1930, to W. P. Tanner-Gross and Company, Inc., New York, N. Y., a Corporation of New York, assignee, by mesne assignments.

76,566. JEWELRY BOXES. Registered February 1, 1910. LOUIS ETTLINGER & SONS, New York, N. Y. Renewed February 1, 1930, to Louis Ettlinger & Sons, Port Richmond, N. Y.

76,640. BRASS HORNS, VIOLINS, AND MANDOLIN TAILPIECES. Registered February 8, 1910. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed February 8, 1930.

76,641. BRASS HORNS AND VIOLINS. Registered February 8, 1910. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed February 8, 1930.

76,642. CERTAIN MUSICAL INSTRUMENTS AND SUPPLIES. Registered February 8, 1910. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed February 8, 1930.

76,772. BROAD SILK IN THE PIECE, COTTON PIECE GOODS, AND SILK AND COTTON PIECE GOODS. Registered February 15, 1910. ROGERS & THOMPSON, West New York, N. J., and New York, N. Y. Renewed February 15, 1930, to Loren O. Thompson, doing business as L. O. Thompson Co., New York, N. Y., successor.

76,794. CERTAIN FOODS. Registered February 15, 1910. PARK & TILFORD, New York, N. Y., a Corporation of New York. Renewed February 15, 1930.

76,837. CIGARS. Registered February 15, 1910. PARK & TILFORD, New York, N. Y., a Corporation of New York. Renewed February 15, 1930.

76,888. PRINT PAPERS. Registered February 22, 1910. THE MEAD PULP & PAPER COMPANY, Dayton, Ohio, a Corporation of Ohio. Renewed February 22, 1930.

76,891. HOSE. Registered February 22, 1910. NEW YORK BELTING & PACKING COMPANY, LIMITED, New York, N. Y., and Passaic, N. J. Renewed February 22, 1930, to New York Belting and Packing Company, New York, N. Y., a Corporation of New York, assignee.

76,952. A REMEDY FOR RHEUMATISM AND GRIPPE. Registered March 1, 1910. J. D. RIEDEL AKTIENGESELLSCHAFT, Berlin, Germany. Renewed March 1, 1930, to Riedel & Co. Inc., Brooklyn, N. Y., a Corporation of New York, assignee by mesne assignments.

77,078. BELTING. Registered March 8, 1910. SAWYER BELTING COMPANY, Cleveland, Ohio. Renewed Mar. 8, 1930, to United States Rubber Company, New York, N. Y., a Corporation of New Jersey, assignee.

77,118. VARNISH. Registered March 8, 1910. THE HARTFORD RUBBER WORKS COMPANY, Hartford, Conn. Renewed March 8, 1930, to United States Rubber Company, New York, N. Y., a Corporation of New Jersey, assignee.

77,140. BLENDED TEA AND ROASTED COFFEE. Registered March 15, 1910. RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo., a Corporation of Missouri. Renewed March 15, 1930.

77,184. COUNTER SALES SLIPS AND COUNTER SALES BOOKS. Registered March 15, 1910. THE CARTER-CRUME COMPANY, LIMITED, Toronto, Ontario, Canada, and Niagara Falls, N. Y. Renewed March 15, 1930, to American Sales Book Company, Limited, of Toronto, Ontario, Canada, Niagara Falls and Elmira, N. Y., a Corporation of Ontario, Canada, assignee.

77,189. BELTING AND HOSE AND CERTAIN TIRES. Registered March 15, 1910. REVERE RUBBER COMPANY, Boston, Mass. Renewed March 15, 1930, to United States Rubber Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

77,236. SOLID, CUSHION, AND PNEUMATIC RUBBER VEHICLE TIRES. Registered March 22, 1910. THE HARTFORD RUBBER WORKS COMPANY, Hartford, Conn. Renewed March 22, 1930, to United States Rubber Company, New York, N. Y., a Corporation of New Jersey, assignee.

77,254. HOSIERY. Registered March 22, 1910. MARSHALL FIELD & COMPANY, Chicago, Ill. Renewed March 22, 1930, to Henrietta Shoppe, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

77,324. CHARCOAL. Registered March 29, 1910. MANUFACTURERS CHARCOAL CO., Camden, N. J., and Bradford, Pa. Renewed March 29, 1930, to Manufacturers Charcoal Company, Bradford, Pa., a Corporation of Pennsylvania, successor.

77,326. BELTING AND HOSE COMPOSED OF RUBBER OR RUBBER AND FABRIC. Registered March 29, 1910. NEW YORK BELTING AND PACKING COMPANY, LIMITED. Renewed March 29, 1930, to New York Belting and Packing Company, New York, N. Y., a Corporation of New York, assignee.

77,328. CITRUS FRUITS. Registered March 29, 1910. ONTARIO-CUCAMONGA FRUIT EXCHANGE. Renewed March 29, 1930, to Ontario-Cucamonga Fruit Exchange, doing business also as "O. K. Fruit Exchange," Upland, Calif., a Corporation of California.

77,355. SOLID, CUSHION, AND PNEUMATIC RUBBER VEHICLE TIRES. Registered March 29, 1910. THE HARTFORD RUBBER WORKS COMPANY, Hartford, Conn. Renewed March 29, 1930, to United States Rubber Company, New York, N. Y., a Corporation of New Jersey, assignee.

77,369. REMEDIES FOR CERTAIN DISEASES. Registered April 5, 1910. GOODNESS BROS. CO., Webster, Mass. Renewed April 5, 1930.

77,371. A PHARMACEUTICAL PREPARATION. Registered April 5, 1910. F. HOFFMANN-LA ROCHE & CO., Basel, Switzerland. Renewed April 5, 1930, to Hoffmann-La Roche, Inc., Nutley, N. J., a Corporation of New Jersey, assignee by mesne assignments.

77,383. WRITING AND PRINTING PAPER. Registered April 5, 1910. JOHN T. UNDERWOOD, doing business as John Underwood & Co., New York, N. Y. Renewed April 5, 1930.

77,409. BRUSHES OF ALL KINDS. Registered April 5, 1910. RENNOUS KLEINLE & CO., Baltimore, Md. Renewed April 5, 1930, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania, assignee.

77,436. UNDERSHIRTS AND UNDERDRAWERS. Registered April 12, 1910. The B. V. D. COMPANY, New York, N. Y. Renewed April 12, 1930, to The B. V. D. Company, Inc., Baltimore, Md., a Corporation of Delaware, assignee.

77,482. CANE AND WICKERWORK FURNITURE. Registered April 12, 1910. HARRY H. PEACH, Leicester, England. Renewed April 12, 1930.

77,586. SHIRTS, PAJAMAS, AND NIGHTSHIRTS. Registered April 19, 1910. THE TRENTON SHIRT MANUFACTURING COMPANY, Trenton, N. J. Renewed April 19, 1930.

77,592. CANNED VEGETABLES, SAUERKRAUT, FISH, AND OYSTERS. Registered April 19, 1910. WEBSTER GROCER COMPANY, Danville, Ill., a Corporation of Illinois. Renewed April 19, 1930.

77,597. SILVER-PLATED WARE COMPRISING FLAT AND HOLLOW WARE. Registered April 19, 1910. WM. A. ROGERS, LIMITED, New York, N. Y. Renewed April 19, 1930, to Oneida Community Limited, Oneida, N. Y., a Corporation of New York, assignee.

77,598. SILVER-PLATED WARE COMPRISING FLAT AND HOLLOW WARE AND CUTLERY. Registered April 19, 1910. WM. A. ROGERS, LIMITED, New York, N. Y. Renewed April 19, 1930, to Oneida Community Limited, Oneida, N. Y., a Corporation of New York, assignee.

77,600. CERTAIN CHEMICAL PREPARATIONS. Registered April 26, 1910. AMERICAN APOTHECARIES COMPANY, New York, N. Y., a Corporation of New York. Renewed April 26, 1930.

77,618. DIURETIC PREPARATIONS. Registered April 26, 1910. CHEMISCHE WERKE VORM. DR. HEINRICH BYK, Berlin, Germany. Renewed April 26, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

77,761. CERTAIN MUSICAL INSTRUMENTS. Registered May 3, 1910. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed May 3, 1930.

77,852. SHAMPOO PREPARATIONS AND HAIR TONICS. Registered May 10, 1910. UNITED DRUG COMPANY. Renewed May 10, 1930, to United Drug Company, Boston, Mass., a Corporation of Delaware, assignee.

77,888. CAKES AND BISCUITS. Registered May 10, 1910. WED. B. VAN DOESBURG. Renewed May 10, 1930, to Naamlooze Vennootschap Biscuitfabriek de Lindeboom, Mijdrecht and Amsterdam, Netherlands, a Corporation of Netherlands, successor.

77,924. A MEDICINAL PREPARATION. Registered May 17, 1910. OTTO KALMUS. Renewed May 17, 1930, to The Kalmus Chemical Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

77,974. A LOTION FOR THE HEAD AND FACE. Registered May 17, 1910. THE BONHEUR COMPANY, Marcellus, N. Y. Renewed May 17, 1930, to The Bonheur Company, Syracuse, N. Y., a Corporation of New York.

78,057. HOSIERY. Registered May 31, 1910. A. B. ANDREWS COMPANY, New York, N. Y. Renewed May 31, 1930, to Richmond Hosiery Mills, Rossville, Ga., a Corporation of Georgia, assignee.

78,152. VIOLINS AND VIOLIN BOWS. Registered May 31, 1910. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed May 31, 1930.

78,192. A REMEDY FOR ASTHMA. Registered May 31, 1910. LILLIAN W. MOON, New London, Conn. Renewed May 31, 1930.

78,311. TEA. Registered June 7, 1910. CLOSSET & DEVERS, Portland, Oreg., a Corporation of Oregon. Renewed June 7, 1930.

78,317. LEAD PENCILS. Registered June 7, 1910. EAGLE PENCIL COMPANY. Renewed June 7, 1930, Eagle Pencil Company, New York, N. Y., a Corporation of Delaware, assignee.

78,344. CERTAIN LAUNDRY APPLIANCES. Registered June 7, 1910. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed June 7, 1930, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

78,352. A CHOLAGOGUE. Registered June 7, 1910. J. D. RIEDEL AKTIENGESELLSCHAFT, Berlin, Germany, and New York, N. Y. Renewed June 7, 1930, to Riedel & Co. Inc., Brooklyn, N. Y., a Corporation of New York, assignee, by mesne assignments.

78,366. WALLETS. Registered June 7, 1910. EMIL WEISSBROD & SONS, INC., Greenfield, Mass., a Corporation of Massachusetts. Renewed June 7, 1930.

78,411. COTTON-CLOTH PIECE GOODS. Registered June 14, 1910. FRANKLIN MANUFACTURING CO., Baltimore, Md. Renewed June 14, 1930, to J. L. Stifel & Sons, Wheeling, W. Va., a Corporation of West Virginia, assignee, by mesne assignments.

78,413. BLENDED ROASTED COFFEE. Registered June 14, 1910. EDWIN J. GILLIES & CO. OF KENTUCKY, Louisville, Ky., and New York, N. Y. Renewed June 14, 1930, to Ouerbacker Coffee Co., Inc., Louisville, Ky., a Corporation of Kentucky, successor.

78,437. FRUIT-JAR RUBBERS. Registered June 14, 1910. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed June 14, 1930, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

78,446. HOSIERY. Registered June 14, 1910. RICHMOND HOSIERY MILLS, Chattanooga, Tenn., and Rossville, Ga. Renewed June 14, 1930, to Richmond Hosiery Mills, Rossville, Ga., a Corporation of Georgia.

78,484. PIANOS AND PLAYER PIANOS. Registered June 21, 1910. BEHNING PIANO COMPANY, New York, N. Y., a Corporation of New York. Renewed June 21, 1930.

78,497. OINTMENT. Registered June 21, 1910. FOSTER DACK CO., Council Bluffs, Iowa, and Chicago, Ill. Renewed June 21, 1930, to Foster-Dack Company, Chicago, Ill., a Corporation of Illinois, successor.

78,540. SEINE TWINE. Registered June 21, 1910. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed June 21, 1930, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

78,545. REFINED PETROLEUM. Registered June 21, 1910. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y., a Corporation of New York. Renewed June 21, 1930.

78,552. BALATA BELTING. Registered June 21, 1910. TURNER BROTHERS LIMITED, Rochdale, England. Renewed June 21, 1930, to Manheim Manufacturing and Belting Company, Manheim, Pa., a Corporation of Pennsylvania, assignee.

78,629. CERTAIN TOOLS AND TOOL HANDLES. Registered June 28, 1910. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed June 28, 1930, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

78,643. CERTAIN TOOLS AND MACHINES. Registered June 28, 1910. RUSSELL & ERWIN MANUFACTURING COMPANY. Renewed June 28, 1930, to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut, assignee.

78,644. LOCKS, CATCHES, AND FASTENERS. Registered June 28, 1910. RUSSELL & ERWIN MANUFACTURING COMPANY. Renewed June 28, 1930, to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut, assignee.

78,645. HARNESS HARDWARE. Registered June 28, 1910. RUSSELL & ERWIN MANUFACTURING COMPANY. Renewed June 28, 1930, to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut, assignee.

78,666. CERTAIN CLOTHING. Registered June 28, 1910. THE GEO. DE WALD COMPANY, Fort Wayne, Ind., a Corporation of Indiana. Renewed June 28, 1930.

78,670. METAL CASTINGS AND FORGINGS. Registered July 5, 1910. EDGAR ALLEN & CO. LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed July 5, 1930.

78,694. FILLERS OF A WAXY NATURE. Registered July 5, 1910. THE MARTIN DENNIS COMPANY, Newark, N. J., a Corporation of New Jersey. Renewed July 5, 1930.

78,757. COFFEE AND CANNED FRUITS AND VEGETABLES. Registered July 5, 1910. THE H. D. LEE MERCANTILE COMPANY, Salina, Kans. Renewed July 5, 1930, to The H. D. Lee Mercantile Company, Kansas City, Mo., a Corporation of Kansas.

78,760. TOILET PAPER. Registered July 12, 1910. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y., a Corporation of New York. Renewed July 12, 1930.

78,761. VINEGAR. Registered July 12, 1910. AMERICAN FRUIT PRODUCT COMPANY, Rochester, N. Y. Renewed July 12, 1930, to Duffy-Mott Company, Inc., New York, N. Y., a Corporation of New York, assignee.

78,808. CERTAIN FOODS. Registered July 12, 1910. THE H. D. LEE MERCANTILE COMPANY, Salina, Kans. Renewed July 12, 1930, to The H. D. Lee Mercantile Company, Kansas City, Mo., a Corporation of Kansas.

78,823. FERTILIZERS. Registered July 12, 1910. PIEDMONT FERTILIZER Co., Opelika, Ala., a Corporation of Alabama. Renewed July 12, 1930.

78,836. WHEAT FLOUR. Registered July 12, 1910. TACOMA GRAIN COMPANY, Tacoma, Wash., a Corporation of Washington. Renewed July 12, 1930.

78,841. WRITING AND PRINTING PAPER. Registered July 12, 1910. UNION CARD & PAPER Co., New York, N. Y., a Corporation of New York. Renewed July 12, 1930.

78,842. WOODEN HANDLES FOR TOOLS AND IMPLEMENTS. Registered July 12, 1910. UNITED HANDLE MILLS, New York, N. Y., a Corporation of New York. Renewed July 12, 1930.

78,849. DRIED AND EVAPORATED FRUITS. Registered July 12, 1910. R. C. WILLIAMS & CO. Renewed July 12, 1930, to R. C. Williams & Co., Inc., New York, N. Y., a Corporation of New York, assignee.

78,852. TOILET SOAP. Registered July 12, 1910. LANMAN & KEMP. Renewed July 12, 1930, to Lanman & Kemp, Inc., New York, N. Y., a Corporation of New York, assignee.

78,864. PAPER BAGS. Registered July 19, 1910. CROWN-COLUMBIA PULP AND PAPER CO. Renewed July 19, 1930, to Crown Willamette Paper Company, San Francisco, Calif., a Corporation of Delaware, assignee by mesne assignments.

78,865. PAPER BAGS. Registered July 19, 1910. CROWN-COLUMBIA PULP AND PAPER CO. Renewed July 19, 1930, to Crown Willamette Paper Company, San Francisco, Calif., a Corporation of Delaware, assignee by mesne assignments.

78,866. WRAPPING PAPER. Registered July 19, 1910. CROWN-COLUMBIA PULP AND PAPER CO. Renewed July 19, 1930, to Crown Willamette Paper Company, San Francisco, Calif., a Corporation of Delaware, assignee by mesne assignments.

78,871. POLISHES AND DRESSINGS. Registered July 19, 1910. DOROTHY DODD SHOE COMPANY, Boston, Mass., a Corporation of New Jersey. Renewed July 19, 1930.

78,898. WATCH MOVEMENTS. Registered July 19, 1910. THE OSKAMP NOLTING COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed July 19, 1930.

78,899. WATCH MOVEMENTS. Registered July 19, 1910. THE OSKAMP NOLTING COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed July 19, 1930.

78,901. POLISHES AND DRESSINGS. Registered July 19, 1910. THOMAS G. PLANT CO. Renewed July 19, 1930, to Thomas G. Plant Corporation, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

78,902. WRITING PAPER IN BOXES, PAPETERIES, ENVELOPS, AND WRITING PAPER IN TABLET FORM. Registered July 19, 1910. POWERS PAPER COMPANY, ASSOCIATES, Holyoke, Mass., and New York, N. Y. Renewed July 19, 1930, to Powers Paper Company, Associates, Springfield, Mass., an Association of Massachusetts.

78,921. CERTAIN FOODS. Registered July 19, 1910. WESTMORELAND GROCERY COMPANY, Greensburg, Pa., a Corporation of Pennsylvania. Renewed July 19, 1930

LABELS

REGISTERED MARCH 4, 1930

37,172.—*Title:* MOZZARELLE. For Cheese. PINA E. C. ALLEVA, doing business as F. Alleva, New York, N. Y. Published December 31, 1929.

37,173.—*Title:* MOZZ-ALLEVA. For Cheese. PINA E. C. ALLEVA, doing business as F. Alleva, New York, N. Y. Published December 31, 1929.

37,174.—*Title:* MARY FRASER. For Candies. MARY FRASER CANDIES, INC., Los Angeles, Calif. Published December 1, 1929.

37,175.—*Title:* FREYSCHLAG BROS. F FINEST SANTA CLARA CO. JUICE. For Grapes. CATHERINE B. FREYSCHLAG, Los Gatos, Calif. Published November 1, 1928.

37,176.—*Title:* GRANDONE INTERNAL CLEANSER. For Tonic Laxative. H. G. Grandone, D. C., Harrisburg, Pa. Published November 24, 1928.

37,177.—*Title:* EDUCATIONAL EQUIPMENT SCHOOL SERVICE. For School Supplies. EARL M. HALB, Eau Claire, Wis., assignor to Eau Claire Book and Stationery Company, Eau Claire, Wis., a Corporation of Wisconsin. Published March 3, 1929.

37,178.—*Title:* HELLMANN'S SALAD DRESSING. For Salad Dressing. RICHARD HELLMANN, Newburgh, N. Y. Published August 29, 1929.

37,179.—*Title:* BARACK SHOE CO. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published December 25, 1929.

37,180.—*Title:* HOWEY GRAPEFRUIT JUICE. For Grapefruit Juice. HOWEY-IN-THE-HILLS JUICE COMPANY, Howey-in-the-hills, Fla. Published December 23, 1929.

37,181.—*Title:* WHOOPEE. For Malt Syrup. L. L. HUGHES, Yakima, Wash. Published August 15, 1929.

37,182.—*Title:* GARDEN ALE. For Nonalcoholic Cereal Maltless Beverage. WARD M. IRVIN, doing business as Garden Ale Company, Battle Creek, Mich. Published August 5, 1929.

37,183.—*Title:* COUGH DROP'S EVERY DROP A CURE. For Cough Drops. GEORGE V. T. KINSEY, New Brunswick, N. J. Published January 30, 1930.

37,184.—*Title:* ALPINE ONE COAT ENAMEL. For Paint. LOUIS LEAVITT, Brooklyn, N. Y. Published September 30, 1929.

37,185.—*Title:* EAT MORE HONEY. For Comb Honey. G. B. LEWIS COMPANY, Watertown, Wis. Published December 28, 1929.

37,186.—*Title:* DRI-BRITE. For Wax. MIRACUL WAX Co., St. Louis, Mo. Published January 23, 1930.

37,187.—*Title:* FLEISCHMANN'S PHOS-FO-LAC. For Phosphate and Lactate Mixture Suitable for Use with Sodium Bicarbonate for the Same Purpose as Baking Powder. STANDARD BRANDS INCORPORATED, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Published December 26, 1929.

37,188.—*Title:* FLEISCHMANN'S YEAST — FLEISCHMANN'S SERVICE. For Yeast. STANDARD BRANDS INCORPORATED, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Published December 7, 1929.

37,189.—*Title:* WALL PAPER ASS'N OF U. S. A.—WALL PAPER. For Wall Paper. WALL PAPER ASSOCIATION OF THE UNITED STATES, New York, N. Y. Published November 1, 1929.

37,190.—*Title:* LA JACIENTA. For Cigars. HYMAN WEINSTEIN, doing business as La Jacienta Cigar Co., Brooklyn, N. Y. Published November 1, 1929.

37,191.—*Title:* WHEATSWORTH FRUIT BISCUIT. For Biscuits. WHEATSWORTH, INC., New York, N. Y. Published January 3, 1930.

37,192.—*Title:* WHEATSWORTH ANIMALS. For Crackers. WHEATSWORTH, INC., New York, N. Y. Published January 3, 1930.

37,193.—*Title:* WHEATSWORTH GINGERETTES. For Crackers. WHEATSWORTH, INC., New York, N. Y. Published January 3, 1930.

PRINTS

REGISTERED MARCH 4, 1930

12,403.—*Title:* TONGUE TIP TELLS STRENGTH AND FLAVOR. For Salt. CONSOLIDATED SALT CO., INC., Norfolk, Va. Published December 2, 1929.

12,404.—*Title:* THE INTEGRITY OF THE HOUSE IS REFLECTED IN THE QUALITY OF ITS PRODUCTS. For Essential Oils. DODGE & OLCOTT COMPANY, New York, N. Y. Published January 27, 1930.

12,405.—*Title:* BLU BOY CLOTHES. For Boys' Clothing. KRONFELDT & KARLIN, INC., New York, N. Y. Published November 14, 1929.

12,406.—*Title:* THE SIGN OF GOOD COFFEE EVERYWHERE. For Coffee. M. J. B. Co., San Francisco, Calif. Published December 11, 1929.

12,407.—*Title:* PEPSODENT REMOVES FILM, RECOMMENDED FOR SENSITIVE TEETH. For Tooth Paste. THE PEPSODENT Co., Chicago, Ill. Published December 17, 1929.

12,408.—*Title:* HERE THEY ARE! AMOS 'N' ANDY, BROUGHT TO YOU IN PERSON, BY PEPSODENT. For Tooth Paste. THE PEPSODENT Co., Chicago, Ill. Published December 17, 1929.

12,409.—*Title:* FILM IS REMOVED WITH PEPSODENT, RECOMMENDED FOR SENSITIVE TEETH. For Tooth Paste. THE PEPSODENT CO., Chicago, Ill. Published December 17, 1929.

12,410.—*Title:* THE PROSPECTOR. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 13, 1930.

12,411.—*Title:* LENA'S FLOWER POT. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 14, 1930.

12,412.—*Title:* THE GRINDSTONE. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 9, 1930.

12,413.—*Title:* FRITZ. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 29, 1930.

12,414.—*Title:* THE FISHERMAN. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 8, 1930.

12,415.—*Title:* THE BUTLER. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 10, 1930.

12,416.—*Title:* THE SAILORS. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 13, 1930.

12,417.—*Title:* KITTY. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 10, 1930.

12,418.—*Title:* THE LETTER. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 27, 1930.

12,419.—*Title:* EXPRESS. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 30, 1930.

12,420.—*Title:* POST OFFICE. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 28, 1930.

12,421.—*Title:* THE ORGAN GRINDER. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 14, 1930.

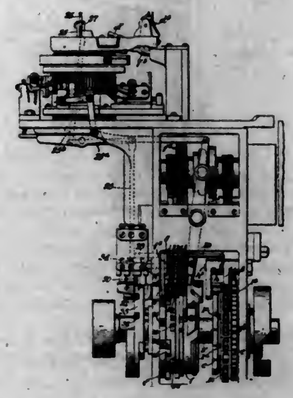
12,422.—*Title:* WHERE DO WE GO FROM HERE. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria Heights, Ill. Published January 8, 1930.

12,423.—*Title:* ELLWOOD RIBBONS AND CARBON PAPER. For Typewriter Machine Ribbons and Carbon Paper. UNDERWOOD TYPEWRITER COMPANY, New York, N. Y. Published January 17, 1930.

REISSUES

MARCH 4, 1930

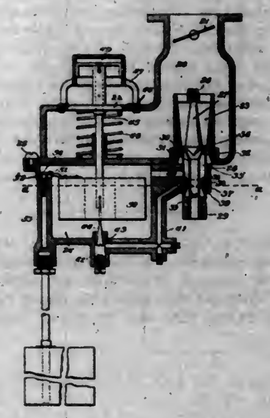
17,608. KNITTING MACHINE. ALDEI LANDRY, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, a Corporation of Massachusetts. Filed Jan. 23, 1918. Serial No. 213,413. Original No. 1,169,655, dated Jan. 25, 1916, Serial No. 40,718, filed July 19, 1915. 9 Claims. (Cl. 66—134.)



1. In combination in a knitting machine a series of yarn fingers movable to and from position for feeding yarn to the needles, a split pattern drum, the sections of which are located next to each other and coaxially, levers overlying the periphery of the sections of the split pattern drum, connections extending upwardly from said levers for controlling the yarn fingers, a timing or pattern chain arranged coaxially with the split pattern drum and on the side thereof opposite that upon which the supplemental section is located, means for operating the said pattern chain, a main and a supplemental controller operated from blocks on said pattern chain, a pawl and ratchet mechanism for the main section of the split pattern drum and a pawl and ratchet mechanism for the supplemental section of the split pattern drum, said pawl and ratchet mechanism being controlled respectively from the main and supplemental controller and said supplemental controller having a connection extending therefrom past the main section of the split pattern drum to control the pawl of the supplemental section, substantially as described.

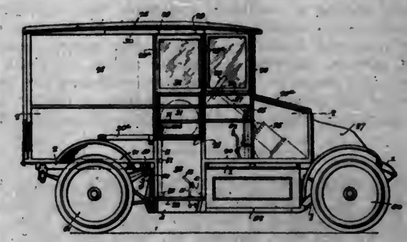
17,609. CARBURETOR. HORACE H. WELCH, Detroit, Mich., assignor, by mesne assignments, to Curtis B. Camp, trustee. Filed Dec. 31, 1927. Serial No. 244,016. Original No. 1,578,873, dated Mar. 30, 1926, Serial No. 135,723, filed Dec. 8, 1916. 14 Claims. (Cl. 261—72.)

13. In a carburetor of the kind described, a mixing chamber, a fuel chamber subject to the suction of the engine through a passage leading thence to the mixing chamber, the juncture of said passage with the mixing chamber being so arranged that the flow of mixture passing through the mixing chamber will, by aspiration, induce in the fuel chamber a higher degree of vacuum than exists



in the mixing chamber to assure the supply of fuel to the fuel chamber, and means for delivering fuel into the mixing chamber.

17,610. DELIVERY TRUCK. EDDY B. WHITNEY, Philadelphia, Pa., assignor, by mesne assignments, of one-half to Walker Vehicle Company, Chicago, Ill., a Corporation of Illinois, and one-half to Divco Detroit Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 28, 1929. Serial No. 343,448. Original No. 1,619,775, dated Mar. 1, 1927, Serial No. 617,540, filed Feb. 7, 1923. 16 Claims. (Cl. 180—77.)

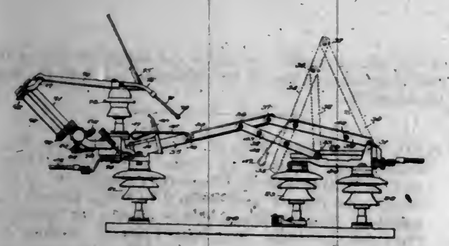


4. In a motor vehicle the combination of a chassis having downwardly extending portions defining a transverse passageway, a body having a top spaced above said pas-

sageway to permit an operator to stand therein, said body having side openings at the ends of said passageway, load carrying floor sections at the front and rear of said passageway, a brake operating mechanism located forward of said passageway, and a second brake operating mechanism located adjacent said passageway and accessible for foot actuation while the operator is standing in said passageway.

16. In a motor vehicle, the combination of a chassis having downwardly extending portions defining a transverse passageway, front and rear wheels for said chassis, a body having a top spaced above said passageway to provide standing height clearance, said passageway extending completely across the vehicle and providing standing height clearance for the full length thereof whereby the operator may pass completely through the vehicle in an upright position, said body having side openings at the ends of said passageway between the front and the rear wheels, steering operating means operable while standing in said passageway, control means for the vehicle operable while standing in said passageway, and additional control means arranged forwardly of the first mentioned control means and adapted to be operated while seated above said passageway.

17,611. SWITCH. NICHOLAS J. CONRAD, Winnetka, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Apr. 29, 1929. Serial No. 359,139. Original No. 1,631,012, dated May 31, 1927, Serial No. 74,930, filed Dec. 12, 1925. 35 Claims. (Cl. 200—114.)



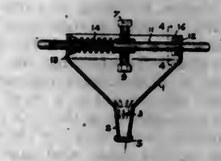
1. The method of interrupting current flow through a switch having a relatively stationary and a relatively movable contact which comprises moving the movable contact from the stationary contact, connecting a fuse of high current interrupting capacity across the break between said contacts and thereafter continuing the movement of the movable contact to separate it further from the stationary contact and to disengage it from the fuse.

17,612. PRIMARY CUT-OUT. NICHOLAS J. CONRAD, Winnetka, Ill., assignor to Schweitzer & Conrad, Chicago, Ill., a Corporation of Illinois. Filed Dec. 6, 1929. Serial No. 412,271. Original No. 1,466,423, dated Aug. 28, 1923, Serial No. 281,215, filed Mar. 7, 1919. Reissue No. 17,214, dated Feb. 12, 1929, Serial No. 319,995, filed Nov. 16, 1928. 37 Claims. (Cl. 200—117.)

1. In a cut-out, a plug member and a cooperating socket member, said socket member comprising a sleeve of insulation open at both ends and having stationary contacts therein, the plug member being insertable into one end of the sleeve and the other end of said sleeve having a straight unobstructed opening, said plug member comprising a fuse having terminal contacts for engagement with said stationary contacts and a terminal member free to be expelled through the straight unobstructed opening of the socket member by blowing of the fuse.



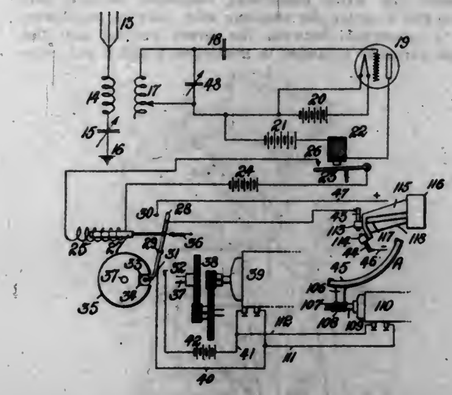
17,613. CRANK-CASE IMPLEMENT. HAROLD A. McGOWAN, Mason City, Iowa. Filed Jan. 2, 1930. Serial No. 418,115. Original No. 1,668,245, dated May 1, 1928, Serial No. 165,020, filed Jan. 31, 1927. 10 Claims. (Cl. 184—1.5.)



4. A liquid drainage implement comprising, a rotary funnel, and a wrench supported by and rotatable with said funnel.

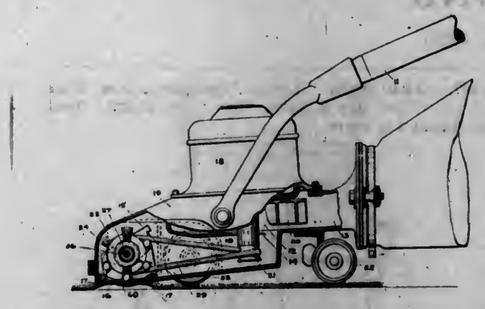
17,614. BEACON SYSTEM FOR NIGHT FLYING. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover, Del., a Corporation of Delaware. Filed June 18, 1929. Serial No. 371,862. Original application filed Apr. 26, 1922, Serial No. 556,783. Renewed Nov. 11, 1927. Original No. 1,709,377, dated Apr. 16, 1929. 20 Claims. (Cl. 250—2.)

1. In a beacon system for aircraft, the combination with an aircraft, of a wave impulse sending instrument on the aircraft, a beacon and a receiver for controlling said beacon and adapted to be placed in operation by said sending instrument.



18. In a beacon system for aviators, the combination with air beacons and means on the aircraft producing a continuous disturbance, of a receiving instrument at each beacon attuned to such disturbance and brought into action on increase in volume of the received disturbance beyond a predetermined magnitude, and means controlled by said instrument for rendering said beacon effective for quenching said beacon on decrease in such magnitude.

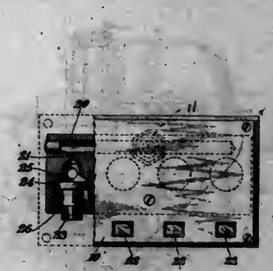
17,615. SUCTION CLEANER. HOWARD EARL HOOVER, Glencoe, Ill., assignor, by mesne assignments, to The Hoover Company, North Canton, Ohio, a Corporation of Ohio. Filed Jan. 28, 1929. Serial No. 335,726. Original No. 1,624,247, dated Apr. 12, 1927, Serial No. 598,251, filed Nov. 1, 1922. 7 Claims. (Cl. 15—6.)



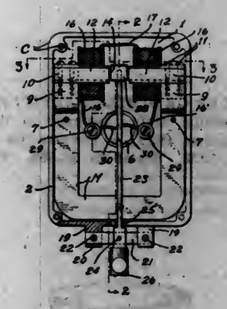
5. The combination with a suction cleaner, of a rotor therefor comprising a body portion, and brushes and rigidly mounted beating members extending radially from said body portion, said brushes and beaters being adjustably secured to said body and adapted to be adjusted to various fixed positions circumferentially of said rotor body.

17,616. MOTOR-INDICATING SYSTEM. EDWARD A. ROCKWELL, Chicago, Ill. Filed Apr. 6, 1929. Serial No. 353,234. Original No. 1,677,494, dated July 17, 1928, Serial No. 696,493, filed Mar. 8, 1924. 26 Claims. (Cl. 116—118.)

1. A level indicating device for internal combustion engines comprising an indicating means including a visible indicator, a connection from said means to a source of vacuum arranged to hold said indicator in non-indicating position by the vacuum, a level registering device positioned according to a liquid level in the engine equipment, a vacuum connection from the indicating means to the level registering device and a vent adapted to be thrown into and out of communication with the vacuum connection by the registering device according to the liquid level.

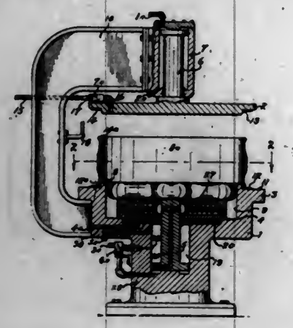


17,617. ELECTROMAGNETIC TRANSLATING DEVICE. ADOLPH A. THOMAS, New York, N. Y. Filed Apr. 6, 1929. Serial No. 353,283. Original No. 1,630,640, dated May 31, 1927, Serial No. 78,279, filed Dec. 30, 1925. 34 Claims. (Cl. 179—100.41.)



1. In an electric phonograph reproducer free from an acoustic diaphragm, a vibratory lever adapted to be actuated by the vibrations of a record needle, said lever comprising a short arm and a long arm, a permanent magnet having pole pieces, a magnetic member mounted on the free end of said long arm in operative relation to said pole pieces, whereby the needle vibrations are transmitted in amplified ratio to said member, non-acoustic resilient means for holding said needle arm and magnetic member in predetermined normal position, and a current generating coil controlled by the movement of said member.

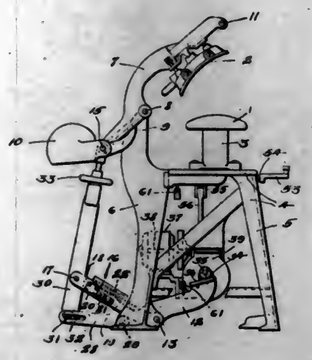
17,618. MANUFACTURE OF TIRE CASINGS. ERNEST HOPKINSON, New York, N. Y. Filed Aug. 30, 1929. Serial No. 389,597. Original No. 1,718,668, dated May 21, 1929, Serial No. 157,110, filed Dec. 27, 1926. 25 Claims. (Cl. 18—2.)



1. An apparatus for shaping tires from pulley bands comprising in combination means cooperating to shape a pulley band, means for locating a unitary retaining member within said pulley band, and means coacting with said member for securing positive engagement between said shaped pulley band and said retaining member.

17,619. PRESSING MACHINE. SIMEON T. HART, Syracuse, N. Y., assignor to The Prosperity Company, Inc., a Corporation of New York. Filed July 24, 1929. Serial No. 380,737. Original No. 1,590,026, dated June 22, 1926, Serial No. 720,854, filed June 18, 1924. 2 Claims. (Cl. 68—9.)

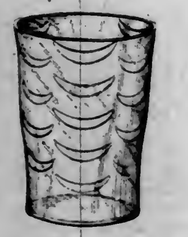
1. A pressing machine comprising a frame, cooperating pressing elements, one movable toward and from the other, and actuating means for the movable pressing element, comprising a power member, a toggle comprising links pivotally connected respectively to the movable element and to the frame independently of the power member, the latter comprising endwisely movable sections, and a spring for resisting such endwise movement, and a connection between the power member and the toggle normally arranged in ineffective position and movable into effective position by a preliminary closing movement of the movable element independently of the power member, said connection being connected to the toggle to move the toggle toward final straightened position and to extend the sectional toggle link against the action of its spring when the straightening movement of the toggle is obstructed before the toggle reaches its straightened position.



DESIGNS

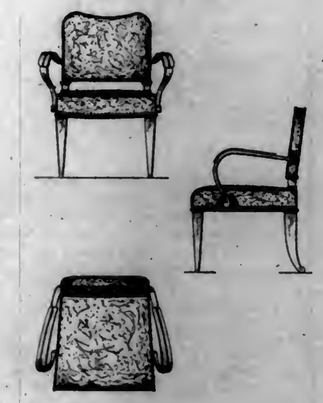
MARCH 4, 1930

80,596. TUMBLER OR SIMILAR ARTICLE. EDWARD E. BARTLETT, Sapulpa, Okla., assignor to Bartlett-Collins Company, Sapulpa, Okla., a Corporation of Oklahoma. Filed Nov. 29, 1929. Serial No. 33,585. Term of patent 14 years.



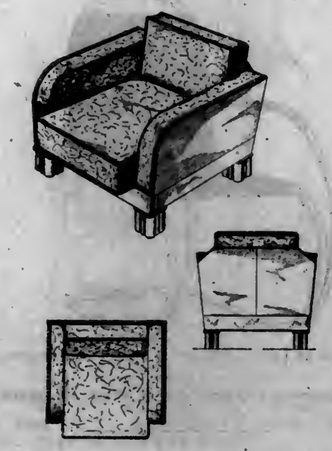
The ornamental design for a tumbler or similar article, as shown and described.

80,597. ARMCHAIR. LUCIAN BERNHARD, New York, N. Y. Filed May 8, 1929. Serial No. 31,139. Term of patent 3½ years.



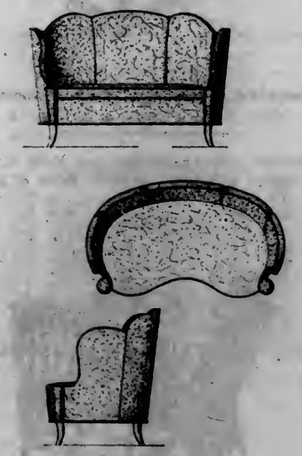
The ornamental design for an arm chair as shown.

80,598. CHAIR. LUCIAN BERNHARD, New York, N. Y. Filed May 8, 1929. Serial No. 31,140. Term of patent 3½ years.



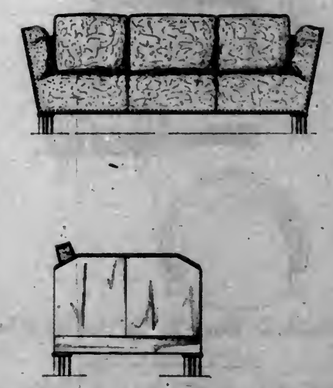
The ornamental design for a chair as shown.

80,599. SETTEE. LUCIAN BERNHARD, New York, N. Y. Filed May 8, 1929. Serial No. 31,141. Term of patent 3½ years.



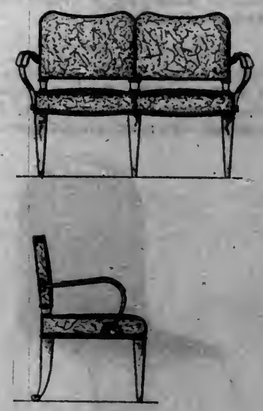
The ornamental design for a settee as shown.

80,600. SOFA. LUCIAN BERNHARD, New York, N. Y. Filed May 8, 1929. Serial No. 31,142. Term of patent 3½ years.



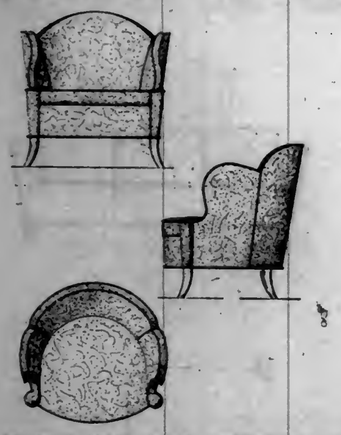
The ornamental design for a sofa as shown.

80,601. SETTEE. LUCIAN BERNHARD, New York, N. Y. Filed May 8, 1929. Serial No. 31,143. Term of patent 3½ years.



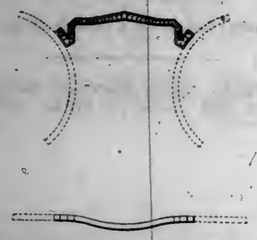
The ornamental design for a settee as shown.

80,602. UPHOLSTERED CHAIR. LUCIAN BERNHARD, New York, N. Y. Filed May 8, 1929. Serial No. 31,144. Term of patent 3½ years.



The ornamental design for an upholstered chair as shown.

80,603. BRIDGE FOR AN EYEGLASS MOUNTING. EARLE J. R. BEATTEY, Edgewood, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 19, 1929. Serial No. 33,857. Term of patent 14 years.



The ornamental design for a bridge for an eyeglass mounting, substantially as shown.

80,604. CHAIR. FRED A. CHAPMAN, Ionia, Mich., assignor to Ypsilanti Reed Furniture Company, Ionia, Mich., a Corporation of Michigan. Filed June 28, 1929. Serial No. 31,862. Term of patent 7 years.



The ornamental design for a chair substantially as shown.

80,605. CHAIR. FRED A. CHAPMAN, Ionia, Mich., assignor to Ypsilanti Reed Furniture Company, Ionia, Mich., a Corporation of Michigan. Filed June 28, 1929. Serial No. 31,863. Term of patent 7 years.



The ornamental design for a chair substantially as shown.

80,606. CLOSET. CHARLES R. CRANE, II, Chicago, Ill. Filed Sept. 12, 1929. Serial No. 32,741. Term of patent 14 years.



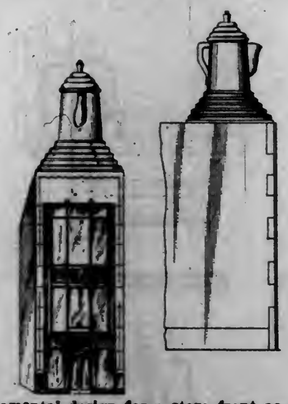
The ornamental design for a closet as shown and described.

80,607. CHAIR. FRANK DEBSKI, New York, N. Y. Filed Dec. 7, 1929. Serial No. 33,694. Term of patent 3½ years.



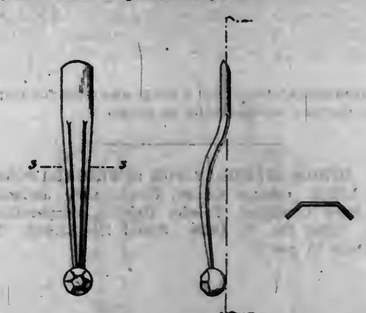
The ornamental design for a chair, as shown.

80,608. STORE FRONT. JOHN ELLIS, Philadelphia, Pa., assignor to Ellis Importing Company, a Firm composed of John Ellis, Samuel Ellis, and Israel Ellis. Filed July 3, 1929. Serial No. 31,934. Term of patent 14 years.



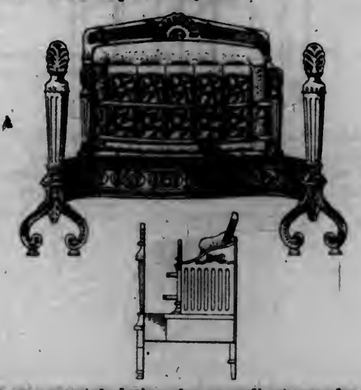
The ornamental design for a store front as shown.

80,609. PEN AND PENCIL CLIP. HARRY ESTERROW, New York, N. Y. Filed Dec. 17, 1929. Serial No. 33,821. Term of patent 14 years.



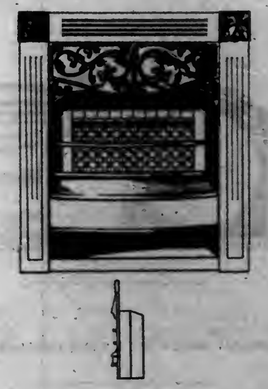
The ornamental design for a pen and pencil clip, as shown.

80,610. RADIANT GAS HEATER. KENNETH C. FARNSWORTH, Athens, Ohio. Filed Oct. 29, 1929. Serial No. 33,199. Term of patent 7 years.



The ornamental design for a radiant gas heater, as shown.

80,611. RADIANT GAS HEATER. KENNETH C. FARNSWORTH, Athens, Ohio. Filed Oct. 29, 1929. Serial No. 33,200. Term of patent 7 years.



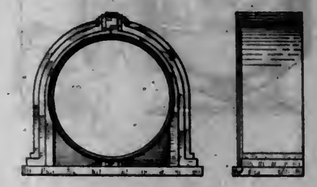
The ornamental design for a radiant gas heater, as shown.

80,612. KNOB FOR RADIODIALS. JOHN GELOSO, New York, N. Y., assignor, by mesne assignments, to Pilot Radio & Tube Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Feb. 24, 1928. Serial No. 25,566. Term of patent 3½ years.



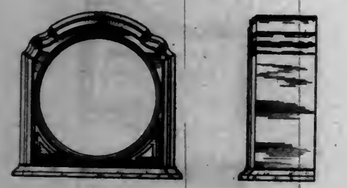
The ornamental design for a knob for radio dials, as shown.

80,613. CLOCK CASE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 18, 1929. Serial No. 33,494. Term of patent 14 years.



The ornamental design for a clock case substantially as shown.

80,614. CLOCK CASE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 18, 1929. Serial No. 33,495. Term of patent 14 years.

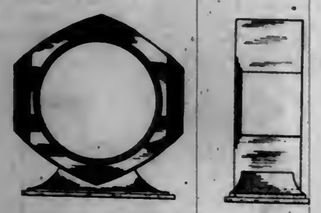


The ornamental design for a clock case substantially as shown.

80,615. CLOCK CASE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 18, 1929. Serial No. 33,496. Term of patent 14 years.

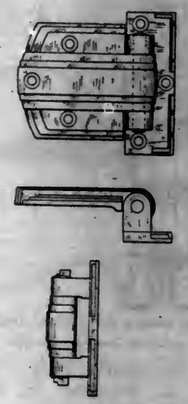
The ornamental design for a clock case substantially as shown.

80,616. CLOCK CASE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 18, 1929. Serial No. 33,497. Term of patent 14 years.



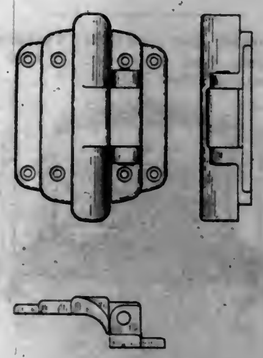
The ornamental design for a clock case substantially as shown.

80,617. HINGE ASSEMBLY FOR REFRIGERATORS OR THE LIKE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 2, 1929. Serial No. 33,601. Term of patent 14 years.



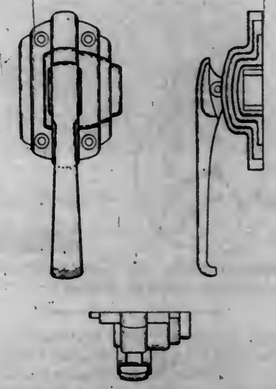
The ornamental design for a hinge assembly for refrigerators or the like, substantially as shown.

80,618. HINGE ASSEMBLY FOR REFRIGERATORS OR THE LIKE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 2, 1929. Serial No. 33,602. Term of patent 14 years.



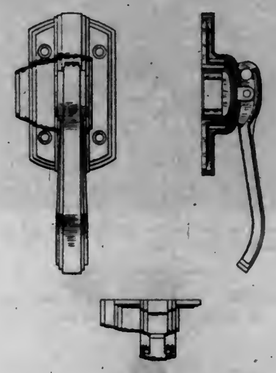
The ornamental design for a hinge assembly for refrigerators or the like, substantially as shown.

80,619. LATCH ASSEMBLY FOR REFRIGERATORS OR THE LIKE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 2, 1929. Serial No. 33,603. Term of patent 14 years.



The ornamental design for a latch assembly for refrigerators or the like, substantially as shown.

80,620. LATCH ASSEMBLY FOR REFRIGERATORS OR THE LIKE. GEORGE GRAFF, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 2, 1929. Serial No. 33,604. Term of patent 14 years.



The ornamental design for a latch assembly for refrigerators or the like, substantially as shown.

80,621. FINGER RING OR ARTICLE OF SIMILAR NATURE. EDWARD J. GROSS, New Rochelle, N. Y., assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Filed Dec. 5, 1929. Serial No. 33,661. Term of patent 7 years.



The ornamental design for a finger ring or article of similar nature, as shown.

80,622. FINGER RING OR ARTICLE OF SIMILAR NATURE. EDWARD J. GROSS, New Rochelle, N. Y., assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Filed Dec. 5, 1929. Serial No. 33,662. Term of patent 7 years.



The ornamental design for a finger ring or article of similar nature, as shown.

80,623. SIGNALING DEVICE. ALBERT F. HARTMAN, Saginaw, Mich. Filed Oct. 4, 1929. Serial No. 32,951. Term of patent 14 years.



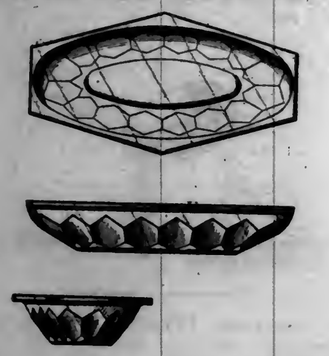
The ornamental design for a signaling device as shown.

80,624. CHAIR OR SIMILAR ARTICLE. FRANK HAVEL, Chicago, Ill., assignor to S. Karpen & Brothers, a Corporation of Virginia. Filed Dec. 28, 1929. Serial No. 33,967. Term of patent 3½ years.



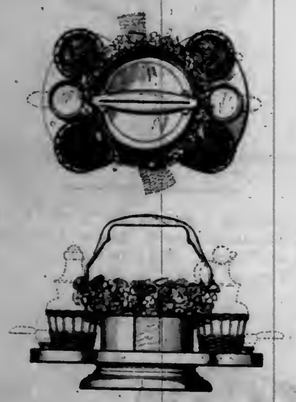
The ornamental design for a chair or similar article, as shown.

80,625. TRAY OR SIMILAR ARTICLE. JESS CLAIR KELLY, Cambridge, Ohio. Filed June 29, 1929. Serial No. 31,887. Term of patent 3½ years.



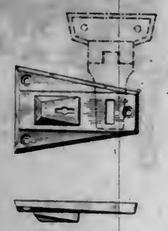
The ornamental design for a tray or similar article, as shown, and described.

80,626. TABLE-RECEPTACLE HOLDER. SAMUEL LAPIN, Miami, Fla. Filed June 3, 1929. Serial No. 31,515. Term of patent 3½ years.



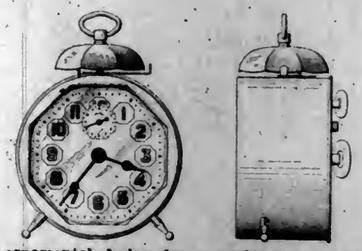
The ornamental design for a table receptacle holder as shown.

80,627. LOCK FRAME. MITCHELL LEVENTHAL, Brooklyn, N. Y., assignor to Sosy, Inc., New York, N. Y., a Corporation of New York. Filed May 7, 1929. Serial No. 31,132. Term of patent 7 years.



The ornamental design for a lock frame, as shown.

80,628. COMBINED CASING FOR AN ALARM CLOCK AND DIAL THEREFOR. PAUL LUX, Waterbury, Conn., assignor to Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a Corporation of Connecticut. Filed May 6, 1929. Serial No. 31,121. Term of patent 3½ years.



The ornamental design for a combined casing for an alarm clock and dial therefor as shown.

80,629. GRILLE FRONT FOR RADIOCABINETS AND LOUD-SPEAKERS. CARL T. MAJER, Philadelphia, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 21, 1929. Serial No. 33,513. Term of patent 7 years.



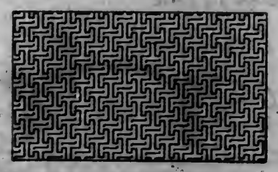
The ornamental design for grille front for radio cabinets and loud speakers, as shown.

80,630. BOOTH. VERA V. MARCUS, Los Angeles, Calif. Filed Oct. 2, 1929. Serial No. 32,914. Term of patent 14 years.



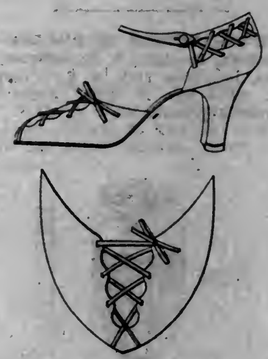
The ornamental design for a booth, as shown and described.

80,631. SAFETY PAPER. CHARLES NAGEL, Los Angeles, Calif. Filed July 24, 1929. Serial No. 32,195. Term of patent 14 years.



The ornamental design for safety paper, as shown.

80,632. SHOE. ANDRÉ PERUGIA, Paris, France. Filed Nov. 4, 1929. Serial No. 33,304. Term of patent 7 years.



The ornamental design for a shoe, as shown.

80,633. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Dec. 21, 1929. Serial No. 33,873. Term of patent 7 years.



The ornamental design for shoe buckle as shown.

80,634. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Dec. 21, 1929. Serial No. 33,875. Term of patent 7 years.



The ornamental design for a shoe buckle as shown.

80,635. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 8, 1930. Serial No. 34,047. Term of patent 7 years.



The ornamental design for a shoe buckle as shown.

80,636. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 8, 1930. Serial No. 34,048. Term of patent 7 years.



The ornamental design for a shoe buckle as shown.

80,637. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 8, 1930. Serial No. 34,049. Term of patent 7 years.



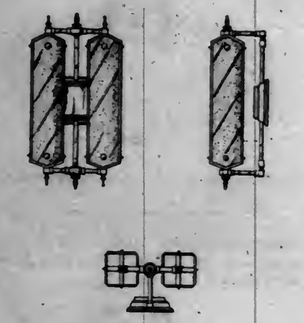
The ornamental design for a shoe buckle as shown.

80,638. LIGHTING FIXTURE. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Dec. 11, 1929. Serial No. 33,748. Term of patent 7 years.



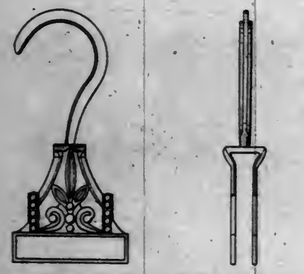
The ornamental design for a lighting fixture, as shown.

80,639. WALL BRACKET FOR LIGHTING FIXTURES. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Dec. 11, 1929. Serial No. 33,749. Term of patent 7 years.



The ornamental design for a wall bracket for lighting fixtures, as shown.

80,640. HANGER HOOK. FRANK SMITH, Cincinnati, Ohio. Filed Dec. 20, 1929. Serial No. 33,868. Term of patent 7 years.



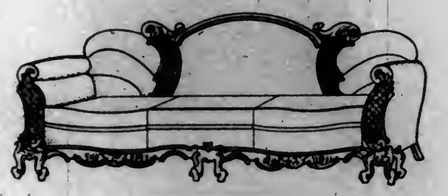
The ornamental design for a hanger-book as shown.

80,641. REFRIGERATOR. JOHN C. STATON, Atlanta, Ga., assignor to The Coca-Cola Company, Atlanta, Ga., a Corporation of Delaware. Filed Jan. 9, 1929. Serial No. 29,552. Term of patent 14 years.



The ornamental design for a refrigerator, as shown.

80,642. SETTEE OR SIMILAR ARTICLE. CHARLES STOLL, Rockaway Beach, N. Y., assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 24, 1929. Serial No. 32,859. Term of patent 3½ years.



The ornamental design for a settee or similar article, as shown.

80,643. PERFUME BOTTLE OR SIMILAR ARTICLE. BENSON STORFER, Brooklyn, N. Y., assignor to Storfer Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 21, 1929. Serial No. 33,514. Term of patent 3½ years.



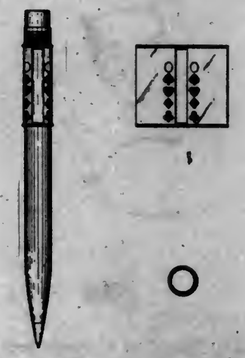
The ornamental design for a perfume bottle or similar article, substantially as shown.

80,644. BRIDGE-SCORE INDICATOR. HELEN ROWE THOMAS and ADOLPH A. THOMAS, New York, N. Y. Filed Oct. 24, 1928. Serial No. 28,619. Term of patent 14 years.



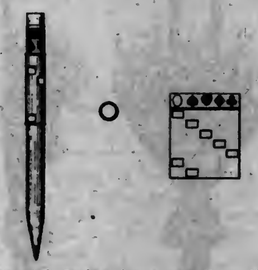
The ornamental design for a bridge score indicator, as shown and described.

80,645. PENCIL OR SIMILAR ARTICLE. HELEN ROWE THOMAS and ADOLPH A. THOMAS, New York, N. Y. Filed Oct. 24, 1928. Serial No. 28,622. Term of patent 14 years.



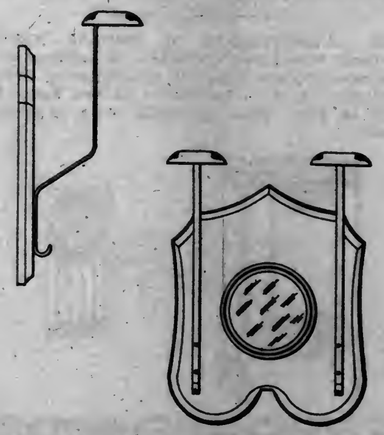
The ornamental design for a pencil or similar article, as shown and described.

80,646. PENCIL OR SIMILAR ARTICLE. HELEN ROWE THOMAS and ADOLPH A. THOMAS, New York, N. Y. Filed Oct. 24, 1928. Serial No. 28,623. Term of patent 14 years.



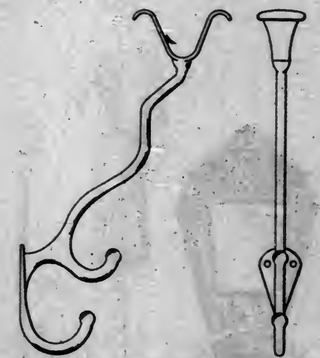
The ornamental design for a pencil or similar article, as shown and described.

80,647. COMBINED MIRROR AND HAT SUPPORT. SHERMAN A. THOMAS, Rochester, N. Y. Filed Oct. 18, 1929. Serial No. 33,100. Term of patent 14 years.



The ornamental design for a combined mirror and hat support, as shown.

80,648. COMBINED HAT SUPPORT AND COAT HANGER. SHERMAN A. THOMAS, Rochester, N. Y. Filed Nov. 4, 1929. Serial No. 33,318. Term of patent 14 years.



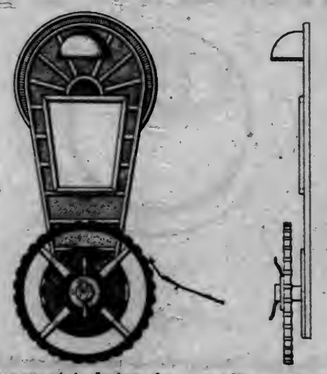
The ornamental design for a combined hat support and coat hanger as shown.

80,649. ASH TRAY OR SIMILAR ARTICLE. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 20, 1929. Serial No. 32,455. Term of patent 7 years.



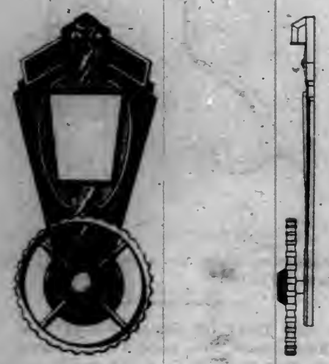
The ornamental design for an ash tray or similar article substantially as shown.

80,650. RADIO RECEIVER CONTROL. JULIUS WEINBERGER, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 6, 1929. Serial No. 33,670. Term of patent 7 years.



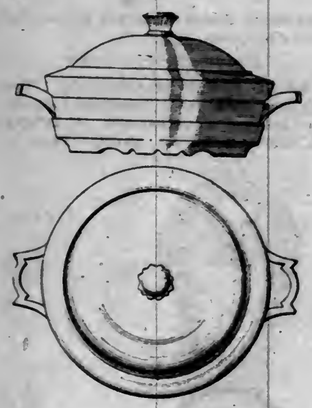
The ornamental design for a radio receiver control substantially as shown.

80,651. RADIO RECEIVER CONTROL. JULIUS WEINBERGER, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Dec. 6, 1929. Serial No. 33,671. Term of patent 7 years.



The ornamental design for a radio receiver control substantially as shown.

80,652. CASSEROLE OR THE LIKE. CHARLES WEISS, New York, N. Y. Filed June 27, 1929. Serial No. 31,845. Term of patent 7 years.



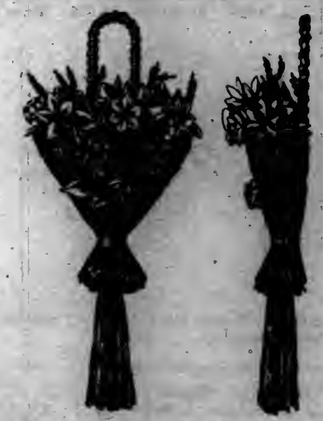
The ornamental design for a casserole or the like, as shown.

80,653. NOVELTY SPUR. GROVER C. WELTER, Roswell, N. Mex. Filed Oct. 9, 1929. Serial No. 32,983. Term of patent 7 years.



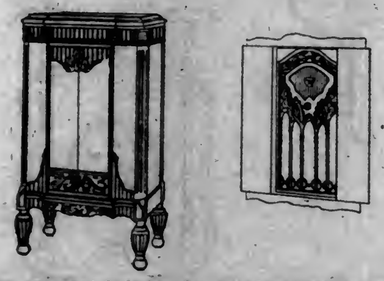
The ornamental design for a novelty spur substantially as shown and described.

80,654. WALL ORNAMENT. ELLA GERTRUDE WILLIAMS, St. Louis, Mo. Filed May 20, 1929. Serial No. 31,807. Term of patent 7 years.



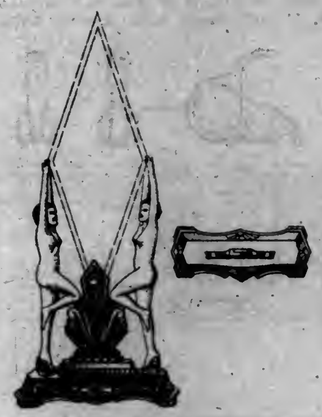
The ornamental design for a wall ornament, as shown.

80,655. RADIOCABINET OR SIMILAR ARTICLE. EVERETT WORTHINGTON, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 29, 1929. Serial No. 33,576. Term of patent 3½ years.



The ornamental design for a radiocabinet or similar article as shown.

80,656. LAMP OR ANALOGOUS ARTICLE. LOUIS ZWEIG, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc., a Corporation of New York. Filed Jan. 2, 1930. Serial No. 34,001. Term of patent 3½ years.



The ornamental design for a lamp or analogous article substantially as shown.

80,657. LAMP BASE OR ARTICLE OF ANALOGOUS NATURE. LOUIS ZWEIG, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc., a Corporation of New York. Filed Jan. 2, 1930. Serial No. 34,002. Term of patent 3½ years.



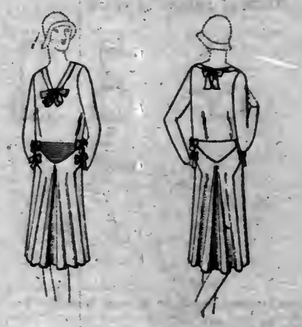
The ornamental design for a lamp base or article of analogous nature, substantially as shown.

80,658. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 10, 1930. Serial No. 34,077. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

80,659. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 10, 1930. Serial No. 34,081. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

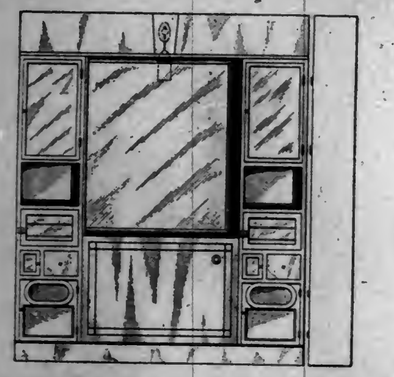
80,660. BUCKLE. LEO NELSON, Brooklyn, N. Y. Filed Jan. 9, 1930. Serial No. 34,067. Term of patent 3½ years.





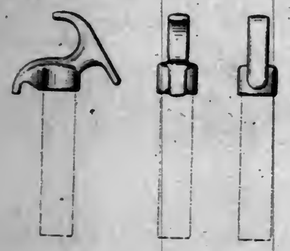
The ornamental design for a buckle, as shown.

80,661. CABINET OR SIMILAR ARTICLE. FRANK J. PAIK, Riverside, Ill., assignor to Emil J. Paidar Company, Chicago, Ill., a Corporation of Illinois. Filed July 26, 1929. Serial No. 82,222. Term of patent 7 years.



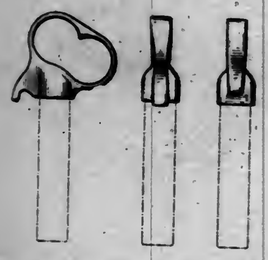
The ornamental design for a cabinet or similar article, as shown.

80,662. HANDLE FOR AUTOMOBILE HOOD CATCH. ARTHUR CLAUD-MANTLE, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 18, 1928. Serial No. 27,520. Term of patent 14 years.



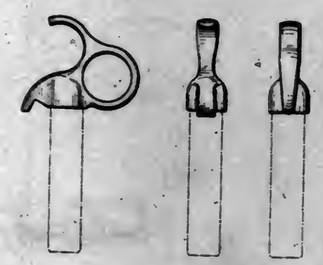
The ornamental design for a handle for automobile hood catch, as shown.

80,663. HANDLE FOR AUTOMOBILE HOOD CATCH. RAYMOND G. MOORE, Bridgeport, and FRANK P. SARGENT, Stratford, Conn., assignors to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed July 18, 1928. Serial No. 27,513. Term of patent 14 years.



The ornamental design for a handle for automobile hood catch, as shown.

80,664. HANDLE FOR AUTOMOBILE HOOD CATCH. RAYMOND G. MOORE, Bridgeport, and FRANK P. SARGENT, Stratford, Conn., assignors to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 15, 1928. Serial No. 27,824. Term of patent 14 years.



The ornamental design for a handle for automobile hood catch, as shown.

80,665. POCKET ATOMIZER. WILLIAM F. GEIGER, Jersey City, N. J., assignor to Cunningham Products Corporation, New York, N. Y. Filed June 11, 1929. Serial No. 81,632. Term of patent 14 years.

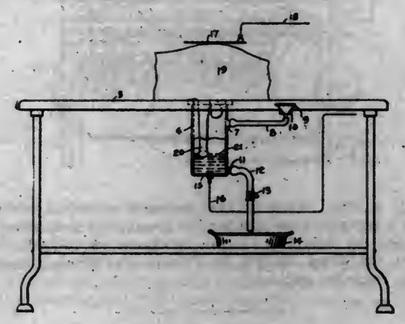


The ornamental design for a pocket atomizer, as shown.

PATENTS

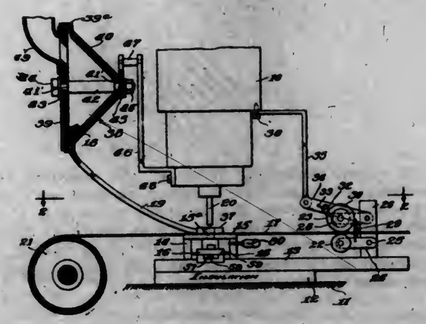
GRANTED MARCH 4, 1930

1,748,937. DIATHERMY. HERBERT SHERWOOD AKERS, Montvale, N. J., assignor to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed June 2, 1928. Serial No. 282,490. 2 Claims. (Cl. 174—87.)



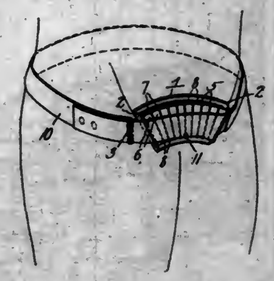
1. In a diathermy apparatus the combination in the usual circuit of an electrode adapted to contact with the patient's back, a second electrode comprising a container holding water and means for varying the height of said water without disturbing the patient whereby sufficient heat is produced diathermically throughout the male urethral tract to insure the killing of gonococci germs.

1,748,938. MEANS FOR SOLDERING CONTACT POINTS. MINER M. AUSTIN, Waukegan, and ILA ROY J. WARNER, North Chicago, Ill., assignors to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed June 27, 1928. Serial No. 288,650. 12 Claims. (Cl. 219—12.)



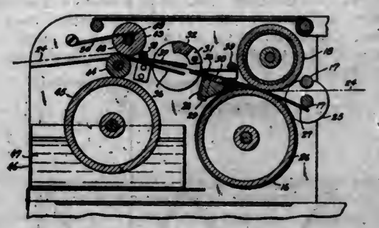
1. Soldering apparatus comprising a punch, a die provided with an aperture in alignment with said punch, an electrode spaced beneath said die in alignment with said aperture, means for moving the lower electrode toward and away from said die, an electrical connection from said punch to a power source whereby said punch acts as an upper electrode, an electrical connection from the lower electrode to said power source, and means for controlling current flow in said connections in accordance with the position of said punch.

1,748,939. HERNIA SUPPORT. HJALMAR V. BARCLAY, New York, N. Y. Filed Oct. 15, 1927. Serial No. 226,293. 3 Claims. (Cl. 128—117.)



1. A hernia support composed of thin, flexible sheet material folded into a series of hollow tapering columns, triangular in cross-section and connected in articulation, sheet inner surfacing for said columns, and means for holding said support against the lower abdomen.

1,748,940. GUMMED-TAPE-DISPENSING MACHINE. RAY G. BEACH, Bridgeport, Conn., assignor to Hugh Lavery, Bridgeport, Conn. Filed July 24, 1925. Serial No. 45,798. 8 Claims. (Cl. 164—43.)

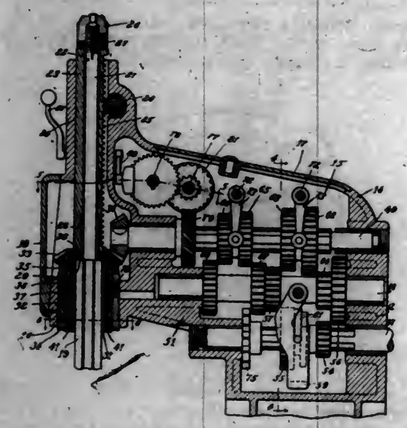


1. In a device of the character described, a support for a coiled strip, a feeding device for withdrawing a length of the strip from the coil, and means for severing the strip comprising a stationary knife blade over which the strip passes, a rotary support, a curved blade mounted on the support extending transversely of the path of movement of the support and having a free edge adapted to cooperate with the stationary blade, said free edge being farthest advanced at the ends of the blade and inclined backwardly toward the center from the ends thereof, and means for turning the support to cause the knife to sever the strip.

1,748,941. DRILLING MACHINE. JOHN S. BARNES, Rockford, Ill., assignor to W. F. and John Barnes Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 18, 1925. Serial No. 9,912. 6 Claims. (Cl. 77—5.)

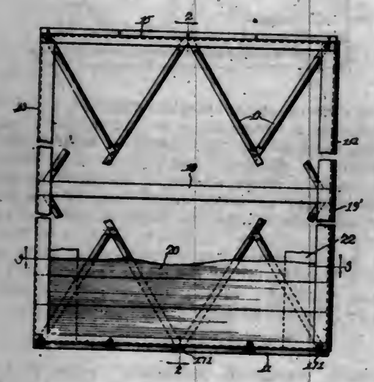
1. In a drilling machine, in combination, a spindle housing having spaced coaxial bores, a bearing sleeve axially adjustable in one of said bores, a spindle drive gear the hub of which is journalled in said bearing sleeve, an internally splined sleeve fixed in said gear hub, a tool spindle one end of which is splined in said splined sleeve

and the other end passes through the other housing bore, a non-rotatable sleeve in which said other end of the



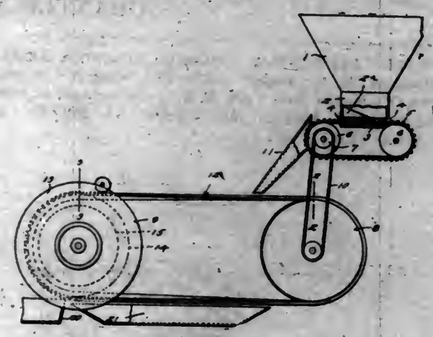
spindle is journalled and which is guided in said other bore, and means engaging said non-rotatable sleeve for imparting feed movement to the spindle.

1,748,942. CAR DOOR. ALLAN S. BARROWS, Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 27, 1924. Serial No. 722,760. 12 Claims. (Cl. 20—37.)



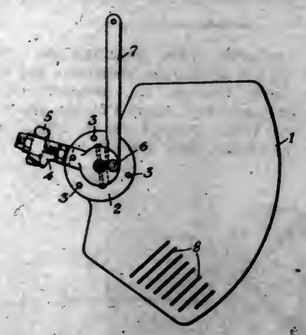
1. In a car door, the combination with a car door frame, including bracing means, said frame being arranged to provide an interior space for the edgewise reception of a closure; of a closure disposed in said space; and removable means for retaining said closure in position in such frame.

1,748,943. MACHINE FOR CLEANING BEANS, PEAS, ETC. HERBERT T. BLAKE, Burley, Idaho. Filed Sept. 29, 1928. Serial No. 309,313. 10 Claims. (Cl. 209—108.)



1. A bean picker of the character described, comprising a travelling belt designed to receive beans thereon, and means for bringing together portions of the belt adjacent the edges thereof for frictionally gripping undesirable beans or matter.

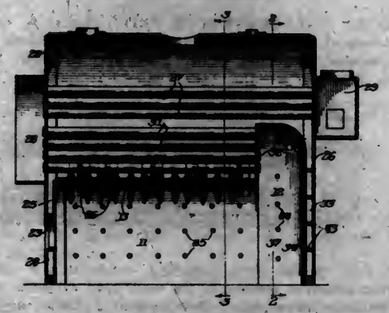
1,748,944. ELECTROMECHANICAL DEVICE OF THE INDUCTION TYPE. ERIC WILLIAM CHALLANS, King's Cross, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 22, 1928, Serial No. 321,065, and in Great Britain Nov. 29, 1927. 1 Claim. (Cl. 175—338.)



An electro-mechanical device of the induction type involving a metallic vane which is provided with slots extending substantially at right angles to the path of the eddy currents and which slots are so located as to produce an upper limiting value to the torque causing the movement of the vane when the vane reaches a predetermined position.

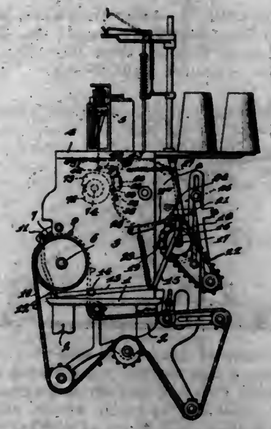
1,748,945. BOILER. JOSEPH F. DICKSON and ROBERT M. TURNER, Kewanee, Ill., assignors, by mesne assignments, to Kewanee Boiler Company, Kewanee, Ill., a Corporation of Delaware. Filed Dec. 3, 1927. Serial No. 237,393. 3 Claims. (Cl. 122—74.)

1. In a heater having a main combustion-chamber and a supplemental combustion-chamber connected with the rear of said main-chamber and extended higher than the latter, a first metal plate forming the outer shell of the boiler and the outer side-walls of both chambers, a second front-wall plate for the boiler, a third rear-wall plate for the boiler, a fourth single metal plate forming the crown-sheet and the inner side-walls of said main-chamber, a fifth single metal plate forming the crown-sheet, the inner side-walls and the inner rear-wall of said supplemental-chamber, a sixth flue-sheet secured to said fifth plate and to the crown-sheet of said main-chamber, and



flues connecting said flue-sheet and said front-wall plate, said side-wall portions of said fourth and fifth plates being welded together, the junctions of said crown-sheet of said fifth plate with its rear and side wall portions being curved, and the junctions of said side and rear walls of the same plate being curved and downwardly tapered.

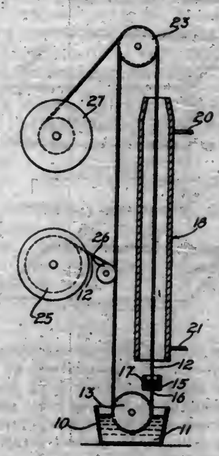
1,748,946. CIRCULAR-KNITTING MACHINE. CHARLES W. DIFFENDERFER, Greencastle, Pa., assignor to The Interwoven Mills, Inc., New Brunswick, N. J., a Corporation of New Jersey. Filed July 20, 1928. Serial No. 294,216. 15 Claims. (Cl. 66—133.)



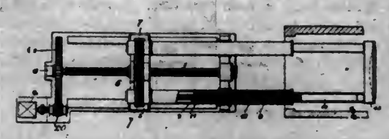
1. Actuating mechanism for yarn fingers of circular stocking knitting machines, comprising a reciprocally mounted element, operative connections therefrom to a yarn finger, means for intermittently reciprocating said element to insert and withdraw said yarn finger, and means for delaying the movement of said element during one portion of a cycle of reciprocation to insure insertion and withdrawal of the yarn finger at the same needle.

1,748,947. APPARATUS FOR COATING CORES. HOWARD STEBBINS DREW, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1925. Serial No. 15,886. 4 Claims. (Cl. 91—82.)

1. In a core coating device, a chamber containing material with which the core is to be coated, means for passing the core through said chamber to coat said core, a second chamber containing mercury, means for causing a relative movement between said core and said mercury to smooth the coating, and heating means for baking the coating thereon.



1,748,948. INGOT-PUSHING DEVICE. JOSEF GARSEN, Dusseldorf, Germany, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany, a Corporation of Germany. Filed July 23, 1928, Serial No. 294,909, and in Germany Nov. 4, 1927. 3 Claims. (Cl. 214—23.)

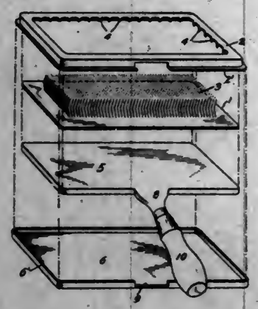


3. In an ingot pushing device, the combination with the frame, of a main screw-spindle journalled therein and the pushing head, of a movable cross-beam adapted to be moved back and forth along said frame by said main screw-spindle, auxiliary screw-spindles rotatably journalled in said movable cross-beam, toothed wheels at the inner ends of said auxiliary screw-spindles, a toothed wheel on said main screw-spindle adapted to rotate therewith and in mesh with said toothed wheels, means for rotating said main screw-spindle in either direction, and extension elements actuated by said auxiliary screw-spindles so as to advance and retract said pushing head.

1,748,949. TRANSPARENT SHEET. MARINO GENTILE, Chicago, Ill., assignor of one-half to Samuel W. Weis and one-fourth to George Pick, Chicago, Ill. Filed Feb. 11, 1928. Serial No. 253,794. 2 Claims. (Cl. 91—68.)

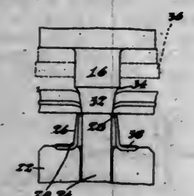
1. An integral transparent wrapping sheet of the character described consisting of a thin film of gelatin as a base, a coating of cellulose nitrate having castor oil incorporated therein applied to each face of said gelatin film, the castor oil functioning as a non-hygroscopic bonding agent and causing the cellulose nitrate coating to become integrally united with the gelatin film on each side thereof, said resultant wrapping sheet being tough, pliable, transparent, moisture, grease and water proof and being adapted to readily conform to the shape of packages and the like without cracking or separating.

1,748,950. CARDING BRUSH. BENJAMIN D. GOLDBERG, Brooklyn, N. Y. Filed Nov. 11, 1927. Serial No. 232,545. 6 Claims. (Cl. 119—93.)



1. In a device of the character described, the combination of a wire carrying foundation, an integral rigid frame forming a rigid border enclosing the edge of the wire-carrying foundation, a backing cover plate and means integral with the cover plate and frame interlocking them with one another to hold the parts together.

1,748,951. METHOD OF INSERTING FASTENERS. SYLVESTER LEO GOOKIN, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 9, 1922, Serial No. 593,358. Renewed Apr. 24, 1926. 8 Claims. (Cl. 218—29.)



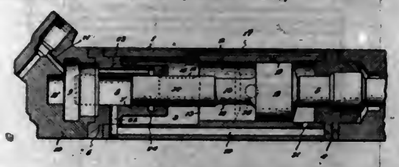
1. The improved method of setting eyelets in a plurality of layers of material which comprises inserting a setting tool on one side of the layers of material, advancing an eyelet having a barrel thickened at its end to bring the thickened end of the eyelet barrel into engagement with the material on the other side, forcing the thickened end of the eyelet barrel against the material thus pushing the layers of material toward the setting shoulder of the tool, advancing the thickened end of the eyelet barrel through the layers of material into engagement with the layer nearest to the setting shoulder of the tool, thrusting the thickened end of the eyelet barrel against said layer thus forcing that layer completely past said setting shoulder, and clenching the thickened end of the eyelet barrel between said said layer and an adjacent layer of the material.

1,748,952. EYELET. SYLVESTER LEO GOOKIN, Atlantic, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 23, 1923. Serial No. 658,991. 18 Claims. (Cl. 24—141.)



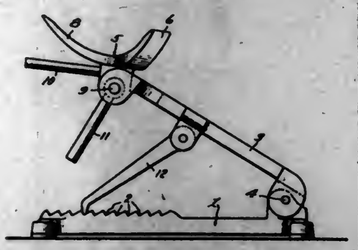
1. An eyelet for invisible eyeleting having the end of its barrel formed to provide means to engage the stock at points removed from the lacing hole and also means to engage the stock at the edge of the lacing hole, thereby rendering the end of the eyelet barrel effective both to push the stock and to pass through one or more layers of the stock.

1,748,953. VALVELESS ROCK DRILL. LOUIS W. GREVE, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Filed May 8, 1928. Serial No. 274,825. 1 Claim. (Cl. 121—17.)



A drill of the class described, comprising a cylinder having passages formed in its wall, said cylinder having a relatively large piston chamber and a cushioning chamber communicating therewith, a bushing providing a small piston chamber fitted in the rear end of the cylinder, one of the passages connecting the large chamber and cushioning chamber, a piston hammer including a large head and a small head operating, respectively, in the large and small chambers, means for conducting pressure fluid to the bushing, the small head controlling the flow of pressure fluid from the bushing through one of the passages to the front and rear faces of the large head, said large head controlling the flow of pressure fluid through the other passage to the cushioning chamber operating on the rear of said head.

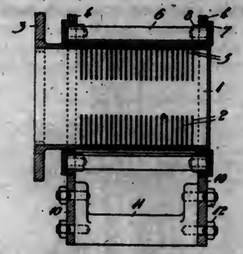
1,748,954. HEADREST. ISAAC HERRMANN, Elyria, Ohio, assignor to The Undertakers' Supply Co., Chicago, Ill., a Corporation of Illinois. Filed July 18, 1928. Serial No. 293,576. 4 Claims. (Cl. 27—13.)



1. A head support adapted to support a human head and comprising a base member, a bar having one end pivotally connected with said base member adjacent one end thereof and extending upwardly at an angle thereto, means for adjusting the position of said bar with respect to said base member, the opposite end of said bar being bifurcated, a head rest pivotally secured between the said bifurcations and shaped to receive a human head therein, a handle carried by said head rest for adjusting the position of the same and means for moving said bifurcations together whereby to secure said head rest in the adjusted position.

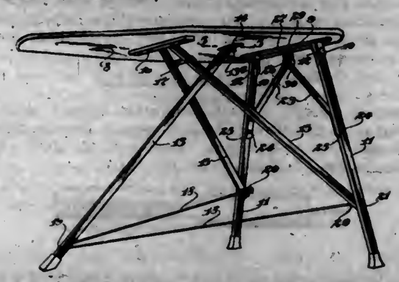
1,748,955. STRAINING DEVICE FOR VACUUM DRYING APPARATUS. AUGUSTINUS EDVARD JONSSON, Lidingo, Sweden. Filed Mar. 21, 1928, Serial No. 263,352, and in Sweden Apr. 9, 1927. 3 Claims. (Cl. 183—52.)

1. A device of the character described, comprising in combination, a movable support, a straining device comprising a hollow body mounted in said support for movement therewith and connected to a source of vacuum, said body being provided along its circumference with straining slots, and an automatic cleaning device mounted to move in relation to the hollow body during movement of the support and provided with cleansing teeth extending



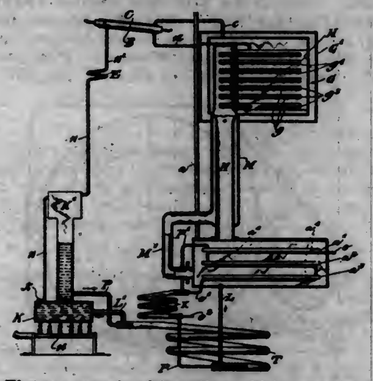
into said slots, the organization being such that on the movement of the support said cleansing device will maintain its stable equilibrium whereby said teeth are displaced in the slots.

1,748,956. IRONING BOARD. JOHN E. KALGREN, Minneapolis, Minn., assignor to The J. R. Clark Company, Minneapolis, Minn., a Corporation of Minnesota. Filed June 4, 1928. Serial No. 282,543. 5 Claims. (Cl. 68—10.)



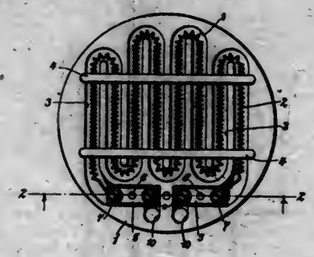
4. An ironing board top having downwardly diverging pairs of hinge lugs, rear legs pivoted to said diverging hinge lugs, a bearing member on the bottom of said board between said legs, a downwardly diverging brace, the arms of which are rigidly secured to said rear legs and the upper portion of which is formed with a cam surface engageable with said bearing member and operative to depress and spread said brace when said legs are turned downward.

1,748,957. REFRIGERATION. DONALD B. KNIGHT, Brooklyn, N. Y. Filed May 24, 1928. Serial No. 280,139. 3 Claims. (Cl. 62—179.)



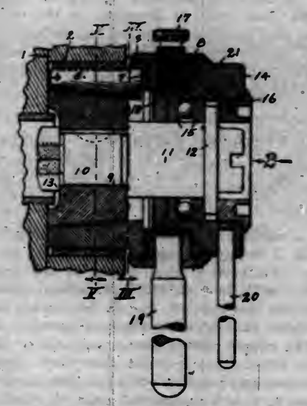
2. The process of refrigerating which comprises evaporating a liquid cooling agent of relatively low vapor pressure in the presence of an auxiliary agent inert to the cooling agent and at substantially atmospheric pressure and having a specific weight lower than the specific weight of the vapor of the cooling agent, producing a head due to difference in specific weights, forcing the mixture of the vapor of the cooling agent and auxiliary agent under the influence of the head produced into the presence of an absorption liquor at substantially atmospheric pressure, segregating the cooling agent from the auxiliary agent by absorption, and returning the auxiliary agent into the presence of the cooling agent under the influence of the head produced.

1,748,958. ELECTRICAL HEATING UNIT. CHARLES W. LOGAN, Kenmore, N. Y., assignor to Markel Electric Products, Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 29, 1928. Serial No. 329,089. 2 Claims. (Cl. 219—37.)



1. An electrical heating unit comprising a refractory support formed with grooves, a heating element arranged in said grooves, a conductive strap positioned in said groove and adapted to connect electrically a lead-in wire with said heating element, a screw securing said strap to said support and a pair of threaded screws independently securing said element and said lead-in wire to said strap, said screws last mentioned being spaced from the screw first mentioned and also from the support whereby the electrical connections thereby afforded are unaffected by the expansion and contraction of said support.

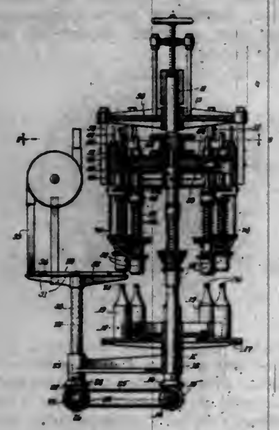
1,748,959. DEVICE FOR FINISHING CYLINDRICAL SURFACES. GRAVES R. MAUPIN, Moberly, Mo. Filed Oct. 19, 1928. Serial No. 313,628. 3 Claims. (Cl. 29—90.)



1. An apparatus of the kind described, comprising a cage member, a plurality of rollers rotatably mounted therein at spaced points thereabout, a tapered expander contacting with said rollers, a shaft carrying said ex-

pander and fixed thereto, a removable handle for rotatably operating said cage member, a size-adjusting means provided with a size indicating gauge rotatably mounted in said cage member and adjustably movable relative to said cage, and a removable bar for adjusting said last-mentioned means to move the shaft and expander carried thereby longitudinally, whereby said expander will actuate said rollers radially.

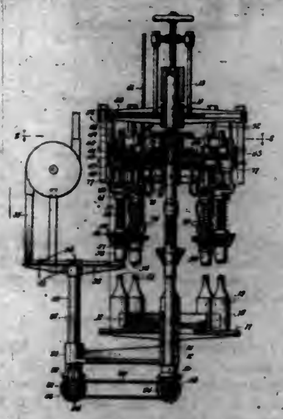
1,748,960. CAPPING MACHINE. ARTHUR I. RISSER, Chicago, Ill., assignor to U. S. Bottlers Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1928. Serial No. 272,634. 5 Claims. (Cl. 226—88.)



4. In a capping-machine, the combination of a stationary table, a revoluble support adapted to receive a screw-threaded container, a capping-head on said support above, in register with, and slidable toward and from said container, means to revolve said support to carry said container beneath, and said capping-head above, said table, means to rotate said capping-head about its axis, means to slide said capping-head toward and from said container, means to feed a screw-threaded cap onto said table in register with said capping-head as the latter passes over said table, means recedable in said capping-head to retain the cap in said capping-head during its travel after it leaves the table until it descends to the container, and means in said head to grasp its cap sufficiently firmly to screw it on the corresponding container, said recedable means automatically retreating in said capping-head during such cap-screwing operation.

1,748,961. CAPPING APPLIANCE. ARTHUR I. RISSER, Chicago, Ill., assignor to U. S. Bottlers Machinery Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1928. Serial No. 272,635. 4 Claims. (Cl. 226—88.)

1. In a capping-appliance, the combination of a stationary table, a revoluble support adapted to receive screw-threaded containers, a capping-head on said support above, in register with, and slidable toward and from each such container on the support, means to revolve said support to carry said containers in sequence beneath, and the corresponding capping-heads above, said table, means to rotate said capping-heads about their own axes, means to slide said capping-heads toward and from their containers, means to feed screw-threaded caps on said table individually into register with said capping-heads as the latter pass over said table, means recedably mounted in said capping-heads and adapted to be subjected to suction to retain the caps therein during their travel after leaving the table until they descend to their containers, means to control the suction exerted by said recedable means to release any cap from its head for which no corresponding container is present to permit such head to receive another cap from the table, and means in each capping-head to



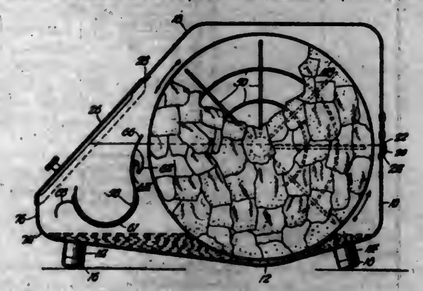
grasp its cap sufficiently firmly to screw it on to the corresponding container, the corresponding recedable means automatically retreating into the capping-head during such cap-screwing operation.

1,748,962. TAP. JOHN HUGO SMITH, Detroit, Mich., assignor to The Wesson Sales Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 15, 1926. Serial No. 88,246. 1 Claim. (Cl. 10—141.)



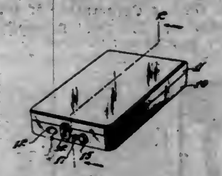
A bottoming tap for cutting threads, comprising a shank having a plurality of longitudinally running and circumferentially spaced lands and flutes, the lands provided with cutting teeth and the tops of the teeth on alternate lands being partially removed, the teeth forming each land being uniform in root diameter and in over-all diameter, except at the working end where the root diameter is maintained but the over-all diameter gradually diminished, the crest of each tooth of uniform over-all diameter being in the form of a segment of a true circle and the crest of each tooth at the working end of the tool being relieved.

1,748,963. APPARATUS FOR DISPENSING FRESHLY-REFRIGERATED FOODS. ERNEST C. STYBERG, Racine, Wis., assignor to The Instant Freezer Corporation, Racine, Wis., a Corporation of Wisconsin. Filed Aug. 25, 1927. Serial No. 215,339. 4 Claims. (Cl. 257—98.)



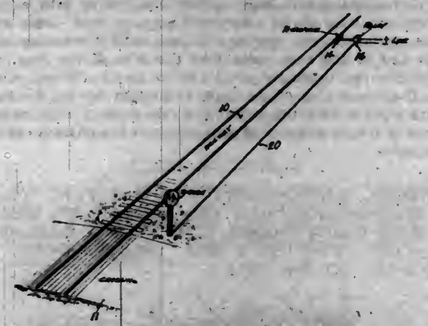
4. An instant freezer comprising a main housing having its bottom formed into a tray for holding a liquid charge, a handle on top of said freezer behind the center of gravity, a lip at the front end of said tray over which the liquid in the tray can be poured out, supporting feet projecting from said tray, the front feet being positioned near said lip to remain in contact with a flat support during tipping of said freezer until said feet and lip are substantially under the center of gravity.

1,748,964. COSMETIC BOX. WILLIAM E. WACKER, Maplewood, N. J., assignor to August Goertz & Co., Inc., a Corporation of New Jersey. Filed Dec. 8, 1928. Serial No. 324,681. 5 Claims. (Cl. 132—83.)



5. In a vanity case comprising, a body section and a cover section hinged to said body section, a tray member within said body section, said tray member having a peripheral flange spaced from the sides of said tray and frictionally engaging the inner walls of said body section, said flange being connected to the sides of said tray by an upper curved bridge portion, a powder box carried by said tray member, said powder box, tray member and body section having communicating apertures, means retained between the side of said tray member and the peripheral flange thereof for conducting powder from the powder box and tray member apertures to the aperture in said body section and a valve operable from the exterior of said body section for controlling the flow of powder from said powder box.

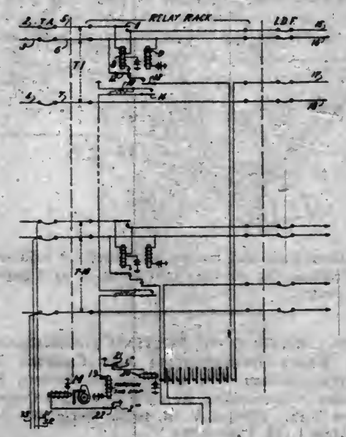
1,748,965. RAILWAY-CROSSING SIGNAL. ERNEST WATSON, Wauwatosa, Wis. Filed Jan. 21, 1929. Serial No. 334,099. 6 Claims. (Cl. 246—125.)



1. In a signaling device for railway crossings, a signal, an electric circuit and means therein for actuating the signal, and a transmitter associated with one of the track rails and having a diaphragm responsive to the sound produced by a train moving over the rails to close the circuit and actuate the signal.

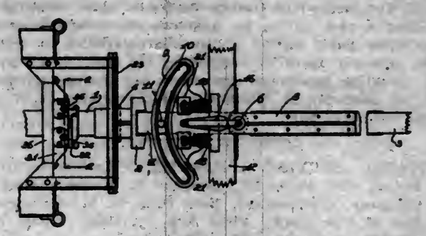
1,748,966. TELEPHONE TRUNKING SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 23, 1925. Serial No. 57,985. 23 Claims. (Cl. 179—18.)

1. In a telephone system, a group of primary trunks divided into sub-groups, a group of secondary trunks divided into sub-groups, separate sub-groups of secondary switches having access to said secondary-trunk sub-groups, respectively, a distributing frame at which said primary trunks terminate and from which connections are made to said secondary switches, said frame including jumpers



for connecting any desired primary trunk with any desired secondary switch, and relays connected with said primary trunks whereby said secondary switches are controlled by said relays through said jumpers.

1,748,967. ARTICULATED TONGUE FOR TRAILERS. LEROY E. WILLIAMS, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Nov. 26, 1926. Serial No. 150,658. 10 Claims. (Cl. 280—33.55.)



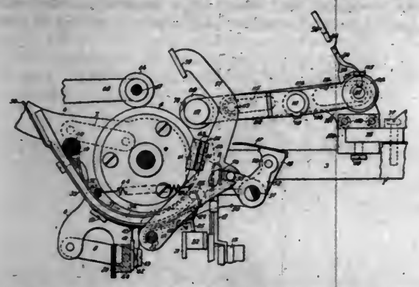
2. In a vehicle having dirigible wheels and a draft member by which they may be steered, a tongue pivotally attached to the draft member for lateral movement with respect thereto, and means on the tongue and draft member rearwardly of said pivotal connection limiting the swing of said tongue about such pivotal connection.

8. In a vehicle having dirigible wheels and a draft member by which they may be steered, a tongue pivotally attached to the draft member for lateral movement with respect thereto, and an evener pivotally mounted at a point co-axial with said pivotal connection.

1,748,968. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed June 23, 1927. Serial No. 200,898. 20 Claims. (Cl. 197—128.)

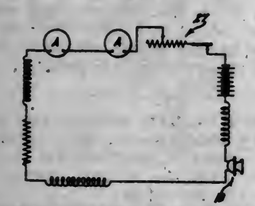
1. The combination of a carriage, a cylindrical platen carried thereby, a paper deflector movable to and from effective position and when in said last mentioned position constituting an aid for directing a work sheet introduced backward from in front of the platen around and beneath the same, paper feed rollers, an auxiliary paper supporting device shiftable towards and away from the

platen and when in effective position supporting a work sheet in snug condition against the platen at and near



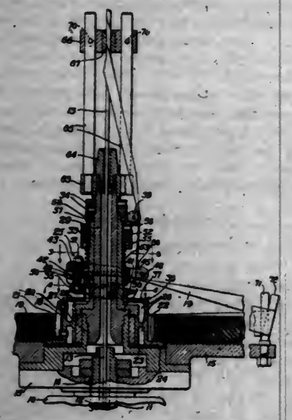
the printing line, and means controlled by said deflector for controlling the shifting movement of said paper supporting device.

1,748,969. METHOD OF TESTING MATERIALS. EDWARD EVANS BLANKENSTEIN and CHESTER MILLER COULTER, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 15, 1927. Serial No. 233,405. 12 Claims. (Cl. 179—175.)



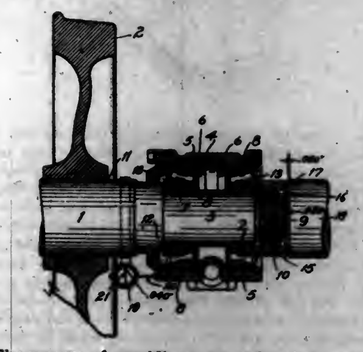
1. The method of testing materials which consists in adding a part having an unknown characteristic to cooperating parts having known characteristics to render the assembly operative, subjecting the assembly of parts to operating conditions, and measuring the operativeness of the assembly to determine the characteristics of the first mentioned part.

1,748,970. SERVING APPARATUS. HAROLD LANGLEY BLOOD, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 17, 1926. Serial No. 129,736. 9 Claims. (Cl. 117—41.)



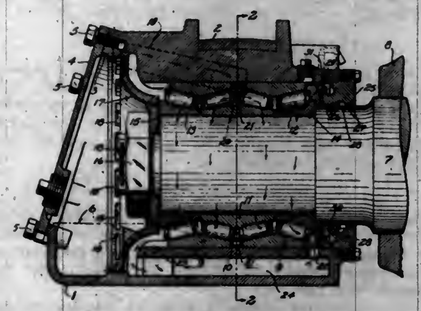
1. In a serving apparatus, a rotatable driving means, a friction driven means carrying a supply of serving material and driven by the driving means, a pivotal member carried by the driving means over a portion of which the material travels for exerting a tension on the material, and means elastically connected to the pivotal member and operatively associated with the driven means at angularly disposed points for varying the frictional driving pressure between the driving and driven means in response to a tendency of the tension on the material to vary from a predetermined amount.

1,748,971. PROCESS OF MOUNTING ROLLER BEARINGS ON CAR AXLES. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Nov. 21, 1927, Serial No. 234,634. Renewed Nov. 2, 1929. 6 Claims. (Cl. 29—84.)



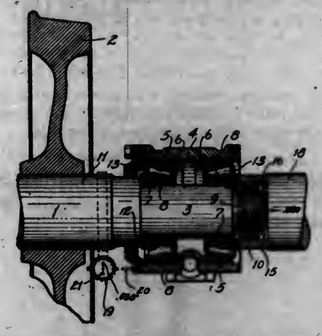
1. The process of providing a car axle with taper roller bearings, which comprises press-fitting on said axle a bearing cone that tapers towards a second bearing cone hereinafter mentioned, slipping onto said axle bearing cups that are relatively fixed and have taper rollers between them and said cones respectively, slipping onto the axle said second bearing cone tapering toward said first mentioned cone, slipping over the end of the axle a sleeve adapted to bear against the end of said second cone and with shims interposed between said sleeve and the ram of a press, moving said ram until it bears against the end of the axle, measuring the play of the cups, increasing the thickness of the shims by an amount equal to the excess play of the cups, and again moving the ram into contact with the end of the axle whereby said second cone is forced endwise of said axle and the parts properly adjusted.

1,748,972. RAILWAY-CAR-JOURNAL BEARING. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 8, 1928. Serial No. 304,658. 2 Claims. (Cl. 308—180.)



1. A railway car journal bearing construction comprising a journal box having a lubricant chamber, an axle extending into said journal box, antifriction bearings interposed between said axle and said journal box and a lubricant impelling wheel secured to the end of said axle, said bearings including two double bearing cups and a perforated spacer ring therebetween, said journal box having longitudinal passageways in its upper portion inclined downwardly from the outer end toward the middle and opening into the interior of the journal box at said perforated ring to permit lubricant to reach said bearings and said journal box also having a passageway to return lubricant from the bearings to the lubricant chamber.

1,748,973. PROCESS OF MOUNTING ROLLER BEARINGS ON CAR AXLES. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 16, 1929. Serial No. 340,418. 5 Claims. (Cl. 29—84.)



1. The process of providing a car axle with taper roller bearings, which comprises press-fitting on said axle a bearing cone that tapers towards a second bearing cone hereinafter mentioned, slipping onto said axle bearing cups that are relatively fixed and have taper rollers between them and said cones respectively, slipping onto the axle said second bearing cone tapering toward said first mentioned cone, slipping over the end of the axle a sleeve adapted to bear against the end of said second cone, measuring the endwise play of the cups in the position of the sleeve thus established, placing opposite the outer end of said sleeve shims of a thickness equal to the excess play of said cups, and moving a ram against said shims until its face reaches the plane occupied by said outer end of said sleeve when said measurement was made, said axle being meanwhile held in fixed position.

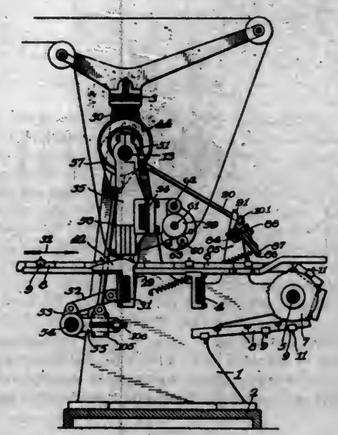
1,748,974. BRACKET. HAROLD D. CHURCH, Fairfield, Conn., assignor to The Belfiex Corporation, New York, N. Y., a Corporation of Delaware. Filed May 11, 1928, Serial No. 638,171, and in Canada June 11, 1924. 7 Claims. (Cl. 267—30.)



1. A stamped metal bracket having an angular end portion for attachment to a vehicle frame, a channeled intermediate portion and a channeled end portion having a substantially flat clamping face at right angles to the longitudinal axis of the frame.

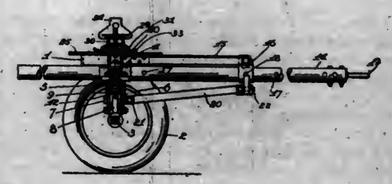
1,748,975. WIREBOUND-BOX-BLANK MACHINE. EDWARD CRAIG, St. Joseph, Mich.; The Commercial National Bank executor of said Edward Craig, deceased. Filed Mar. 24, 1928. Serial No. 264,330. 14 Claims. (Cl. 1—8.2.)

10. In wire bound box blank machinery, in combination, instrumentalities for continuously feeding the blank materials, a transverse rotary shaft disposed above the feeding plane of said instrumentalities, swinging stapling mechanism the transverse axis of oscillation of which is also above said plane, actuating means deriving power from said shaft to oscillate said mechanism about its said axis, whereby said mechanism moves a distance with the blank materials while inserting staples therein,



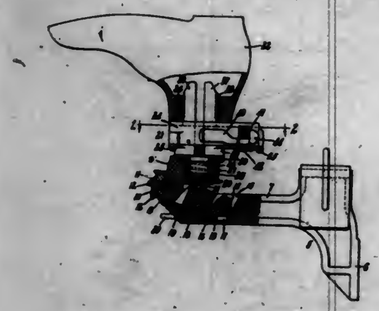
cam means on said shaft to actuate said mechanism, driving means to controllably rotate said shaft, a wire cutter for severing the binding wire between blanks, and an operating connection between said cutter and the frame of said mechanism, whereby the oscillation of said mechanism actuates the wire cutter.

1,748,976. POLE TRAILER. DURREL H. DAVIS and LEROY E. WILLIAMS, Edgerton, Wis., assignors to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Apr. 11, 1927. Serial No. 182,624. 8 Claims. (Cl. 280—33.4.)



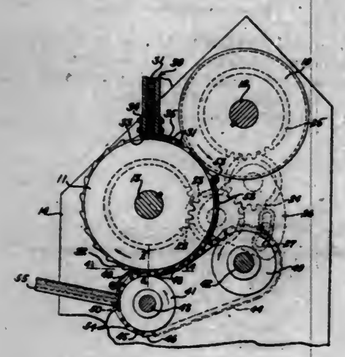
3. In a trailer vehicle, the combination of a unitary cast frame, supporting wheels and an axle therefor, the upper side of said frame providing a turntable, a bolster centrally pivoted on said frame having its outer extensions slidably supported on said turntable, said frame having integral arms extending laterally in opposite directions, brackets mounted on said axle, upwardly extending bolts pivoted to said brackets and slidably connected at their upper end to said arms, coil springs on said bolts, in yielding contact with said arms, checking means for limiting the rebound of the frame with respect to the axle, and a leaf spring extending transversely above the axle, connected at its mid-point to said frame, with its outer ends shackled to said brackets.

1,748,977. LASTING JACK. HOWARD G. ELLIS, Waltham, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Delaware. Filed Jan. 21, 1929. Serial No. 333,798. 11 Claims. (Cl. 12—126.)



1. A last holder for a jack having, in combination, a rigid jaw, a movable jaw, means to yieldingly force said jaws apart, means to hold said jaws in parallel relation to each other, and means to force said jaws toward each other.

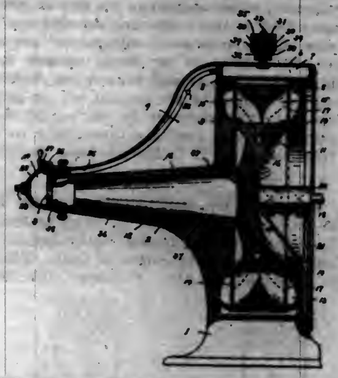
1,748,978. MATERIAL-HANDLING APPARATUS FOR PROCESSING MACHINES. JOHN DIETRICH FEENEY, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 28, 1928. Serial No. 265,331. 16 Claims. (Cl. 153—28.)



1. In a material handling apparatus for a forming mechanism, a magazine, means for receiving formed parts directly from the forming mechanism and depositing them in the magazine in predetermined relation to each other, and means carried by the first mentioned means for advancing the parts therein.

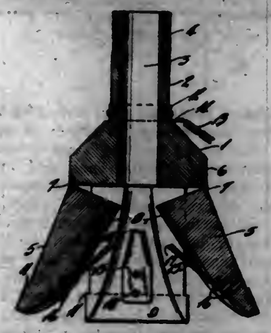
1,748,979. AIR COMPRESSOR. GILBERT GUNDERSON, Fergus Falls, Minn. Filed Nov. 22, 1928. Serial No. 321,172. 8 Claims. (Cl. 230—124.)

1. A centripetal air compressor of the character described including a rotor having an axial extension thereupon, a plurality of helically shaped air passageways in the head of the rotor and extending circumferentially about



the axial extension thereof, a double receiving port in the head of the rotor for each passageway, and circular intake ports upon either side of the head of the rotor.

1,748,980. FISHING TOOL. ALVA OTIS HAMBLEN, Flint, Mich. Filed June 6, 1928. Serial No. 283,222. 8 Claims. (Cl. 294—90.)



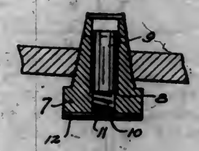
1. In a tool of the class described, a circular body portion having a threaded extension for the reception of an operating pipe, and a passageway for a drill rod, a plurality of jaws hinged to the lower margin of the body, the said jaws being arcuate in cross-section and wedge shaped longitudinally the narrow end being turned downwardly, a band adapted to slidingly fit over the jaws to hold the same in the closed position and spring set gripping teeth or blades secured to the inner faces of the jaws and converging inwardly and upwardly.

1,748,981. ROOFING AND METHOD OF FORMING THE SAME. WILLIAM A. HARRIS, Boston, Mass., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 13, 1924. Serial No. 731,775. 1 Claim. (Cl. 108—8.)



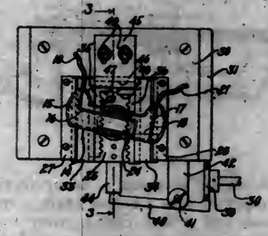
A roofing unit having a serrated lower edge, said serrations comprising triangular projections of such a size as to be substantially indistinguishable as such at the ordinary distance of an observer from a roof, the edges of said projections thus blending to present a shadow effect wider than that cast by a straight edge of the same material.

1,748,982. AUTOMATIC DRAIN. JAMES J. HENNESSY, New York, N. Y. Filed Aug. 25, 1928. Serial No. 302,071. 6 Claims. (Cl. 210—51.)



1. In a device for automatically draining relatively incohesive fluid from a container for more viscous fluid, a body having a bore communicating at opposite ends with the interior and exterior of the container, a plug in said bore with its wall so spaced from the wall of said bore as to permit the passage of water and prevent the passage of oil, and means yieldingly supporting the weight of said plug.

1,748,983. CONTROL INSTRUMENT. ROBERT HOFSTETTER, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,336. 4 Claims. (Cl. 200—56.)



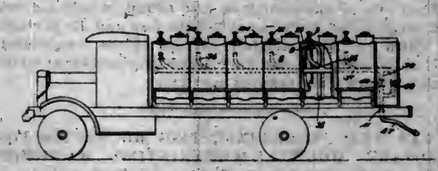
1. In an electrical control system, a circuit controlling mechanism comprising a reciprocable member, a fluid contact switch pivotally carried thereby, a pinion secured to said contact switch, a reciprocable rack operatively engaging the pinion, and means for reciprocating the member to cause a reciprocatory movement of the rack.

1,748,984. INTERCHANGEABLE-CHARACTER-LOCKING DEVICE. MICHAEL J. HOGAN, Chicago, Ill. Filed Apr. 18, 1927. Serial No. 184,703. 6 Claims. (Cl. 40—140.)



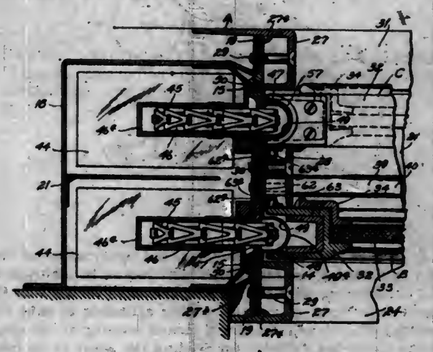
1. A device of the character described comprising a base having a slot therein, a character plate having a projection on the back thereof of less width than said slot whereby it may be readily inserted in said slot, said projection having a recess in one side thereof adapted to receive one edge of said slot and means adjustably mounted on said base for engaging the side of said projection opposite said recess and locking the character plate in position.

1,748,985. LIQUID-DELIVERY DEVICE. RAYMOND STEWART HUNICKE, Elizabeth, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 15, 1927. Serial No. 175,538. 6 Claims. (Cl. 221—95.)



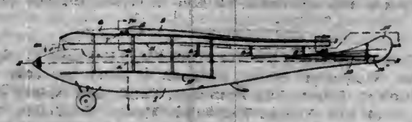
1. In a liquid delivery device the combination which comprises, a container for the liquid, a main withdrawal pipe, valve controlled auxiliary withdrawal pipes communicating with said main withdrawal pipe, all pipes terminating in said container and said auxiliary pipes terminating at higher levels than the main pipe, and at different levels in said container and suction means connected with the main pipe exteriorly of the container for withdrawing liquid from said container, whereby the withdrawal of liquid from the container may be interrupted when the level of the liquid therein reaches the level of the termination of any auxiliary pipe selected.,

1,748,986. METAL WINDOW. ALFRED M. LANE, St. Louis, Mo. Filed Dec. 17, 1927. Serial No. 240,656. 11 Claims. (Cl. 182—72.)



1. A window comprising jambs, a lower sash slidable between said jambs, sash cords or the like connected to said sash for balancing the same, guard members mounted on the sash opposing faces of said jambs and extending from the top of said sash in the lowered position thereof to the upper portions of said jambs, said sash cords extending between said jambs and said guard members, and a bracket removably secured to the top of said sash at each end thereof and slidably engaging the portions of the guard members which cover said sash cords.

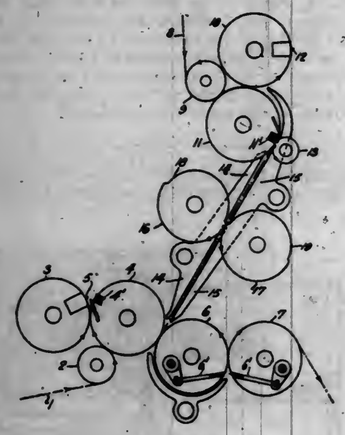
1,748,987. AEROPLANE. BERT MESSICK, Lansing, Mich. Refiled for abandoned application Serial No. 44,683, filed July 20, 1925. This application filed Apr. 12, 1929. Serial No. 354,671. 4 Claims. (Cl. 244—12.)



1. In an aeroplane, a fuselage, and an airfoil above said fuselage, said airfoil being secured to said fuselage inter-

mediate of the span of said airfoil, and said airfoil including fore and aft portions approximately parallel to the longitudinal axis of the plane and an intermediate portion connecting said fore and aft portions, said intermediate portion declining rearwardly towards the longitudinal axis of said aeroplane, said airfoil including a central longitudinal girder or spine, the fore and aft portions of which are approximately parallel to the longitudinal axis of the aeroplane and the intermediate portion of which declines rearwardly towards said axis.

1,748,988. SHEET-INSETTING MECHANISM FOR ROTARY MULTIPLE-WEB-PRINTING MACHINES. EDWARD THOMAS MORRIS, London, England, assignor to R. Hoe & Co. Inc., New York, N. Y., a Corporation of New York. Filed July 24, 1926, Serial No. 124,737, and in Great Britain July 29, 1925. 10 Claims. (Cl. 270—48.)



1. In a sheet insetting machine, the combination of cutting cylinders, a collecting cylinder, means in addition to and cooperating with the cutting cylinders for feeding the sheet to be inset from said cutting cylinders to said collecting cylinder, and additional means running at the speed of the collecting cylinder for feeding the sheet to be inset located between the first said means and the collecting cylinder and having provision for releasing the sheet.

1,748,989. PROCESS FOR TREATING SILICEOUS MINERALS. ARTHUR J. MOXHAM, Odessa, Del., assignor to Electro Company, a Corporation of Delaware. Filed Nov. 25, 1924. Serial No. 752,164. 4 Claims. (Cl. 23—32.)

1. The method of treating siliceous minerals containing potassium, aluminum and ferric iron in combined form which consists in treating the mineral with sulfuric acid, converting said ingredients into sulfates in solution, separating the solution from the residue, crystallizing out a part of the potassium and aluminum sulfates as potash-alum, separating the crystals from the mother liquor, and precipitating the ferric sulfate and the remainder of the potassium and aluminum sulfates in strong sulfuric acid.

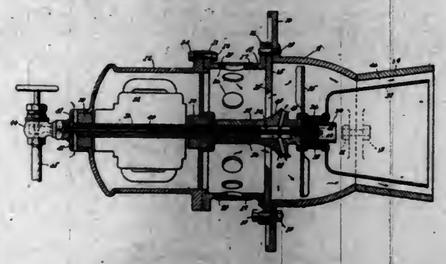
1,748,990. ACOUSTIC DIAPHRAGM. EVERETT C. NILSON, Worcester, Mass., assignor of forty per cent to Ralph G. Nilson, San Francisco, Calif., and twenty per cent to Nils Nilson, Worcester, Mass. Filed Dec. 16, 1927. Serial No. 240,596. 21 Claims. (Cl. 181—32.)

1. In a sound amplifying device, a diaphragm, said diaphragm comprising a cone and a truncated cone surrounding said cone, the lesser circumference of said truncated cone and the circumference of said cone being coincident,



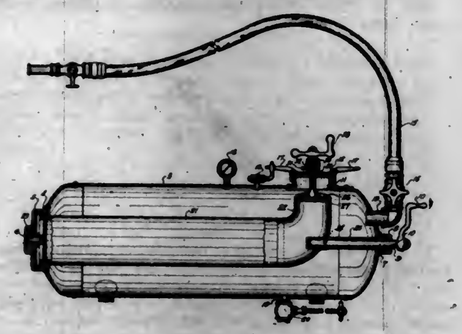
the statical moment of said diaphragm about an axis passing through the apex of said cone and perpendicular to the axis of said cone being approximately zero.

1,748,991. OIL BURNER. HODGSON S. PIERCE, Detroit, Mich., assignor to The Cope Swift Company, Inc., a Corporation of Michigan. Filed Jan. 26, 1928. Serial No. 249,535. 9 Claims. (Cl. 158—77.)



1. In combination, a casing, a motor supported at one end thereof provided with a hollow shaft, a vaporizing cup at the opposite end of said casing driven by said motor, and an air displacing device fixed on said shaft between said motor and said cup and driven thereby, the interior of said shaft being connected with the low pressure area adjacent said device whereby air will be drawn through said shaft upon rotation of said motor.

1,748,992. FOAM-GENERATING TANK. WILLIAM R. PIRSCH, Kenosha, Wis., assignor to Peter Pirsch and Sons Co., Kenosha, Wis., a Firm composed of Peter Pirsch, W. R. Pirsch, and Cella Pirsch Even. Filed Sept. 20, 1926. Serial No. 136,549. 2 Claims. (Cl. 169—32.)



1. A foam generating tank comprising an outer container, an inner container pivotally mounted therein and

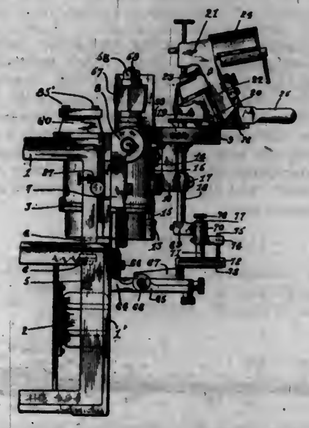
having an open and a closed end, said open end portion being bent at substantially a right angle to form a spout, and means for rotating the inner container on its pivot to reverse the position of the spout and to thereby cause the contents of the inner container to be discharged into the outer container.

1,748,993. ELECTRICAL COIL AND METHOD OF MANUFACTURING IT. CHESTER ARTHUR PURDY, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 19, 1926. Serial No. 142,561. 10 Claims. (Cl. 175—356.)



9. An inductance coil having a core formed of a plurality of substantially identical semi-toroids spaced apart at diametrically opposite points, and a non-magnetic cementing material in the space between the semi-toroids to allow for adjustment of the air gap between the semi-toroids and upon its solidification integrally uniting the semi-toroids.

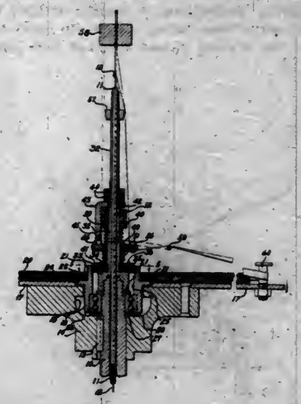
1,748,994. WOOD-HEEL-TURNING MACHINE. RALPH LESLIE RAYMOND, Montreal, Quebec, Canada, assignor to Dominion Wood Heel Corporation, Limited, Montreal, Canada, a Corporation. Filed Dec. 30, 1926. Serial No. 157,999. 13 Claims. (Cl. 12—87.)



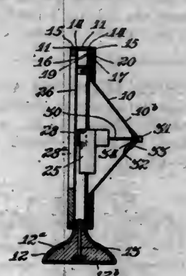
1. A wood heel turning machine comprising a frame, a pair of lower brackets slidably mounted thereon, curved arms extending from the brackets, a lower track having its ends pivoted to said brackets, and cylindrical rests eccentrically journaled in the free ends of said arms and supporting said track.

1,748,995. SERVING APPARATUS. LESTER OSWALD REICHELT and JOHN JAMES ROHLOFF, Oak Park, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 5, 1927. Serial No. 196,587. 9 Claims. (Cl. 117—41.)

1. In a serving apparatus, a driving element, a driven element carrying material to be served to a core, means intermediate said elements for communicating power to the driven element from the driving element, coaxially arranged elements acting in opposite directions associated with the power communicating means for normally causing the communication of a predetermined amount of power to the driven element, and means responsive to the tension of the material being served for varying the action of the elements acting in opposite directions to change the action of the power communicating means.



1,748,996. LOUD-SPEAKER. FRANK J. REICHMANN, Chicago, Ill. Filed May 6, 1926. Serial No. 107,046. 16 Claims. (Cl. 181—31.)

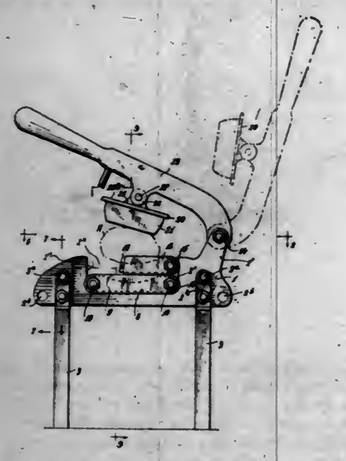


1. In a cone type sound reproducer, a composite tympanum having a flat, annular portion, and a central conical portion, annular non-vibrating members secured in compensating relationship to the periphery of said annular portion, and means for imparting vibration to said composite tympanum, and in which said non-vibrating members comprise a pair of annular metal members having a facing of felt disposed adjacent said tympanum.

1,748,997. CUTTING OR SLICING DEVICE. COSTAS G. RENTOS, New York, N. Y. Filed May 3, 1927. Serial No. 188,453. 1 Claim. (Cl. 146—169.)

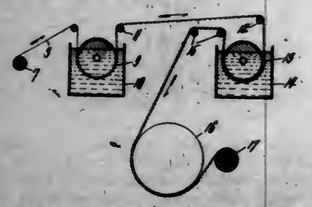
A device of the character described comprising a frame having an inner opening, a cutter member provided with spaced cutters disconnected from one another between their ends, adapted to be removably supported upon the frame in register with said opening, a second cutter member provided with spaced cutters disconnected from one another between their ends, adapted to be located over the first named cutter member with the cutters of the second named member parallel with and above the first named cutters and out of vertical register therewith, the

second named cutters being in register with the spaces between the first named cutters, a member pivotally supported by the frame to operate over the cutters, and a presser pivotally hung from said member to have unobstructed swinging motion in the plane of the cutters, said presser having projections to engage articles on the cutters, said projections being spaced to pass between the cutters of the second named member and located in po-



sition to oppose the cutters of the first named member, the pivotal supporting of the presser causing it to accommodate itself to the shapes of different articles on the cutters, the second named cutters operating to cut parallel slices from an article and the first named cutters operating to cut said slices into parallel pieces as the said projections pass between the second named cutters into engagement with the first named cutters.

1,748,998. COMPOSITE SHEETING AND METHOD OF MAKING. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Oct. 6, 1928. Serial No. 310,710. 3 Claims. (Cl. 92—41.)

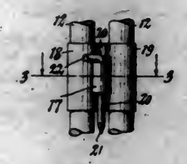


3. A method of making a reinforced pulp web, which comprises progressively passing wire screening about a cylinder mould rotating in a pulp suspension to deposit a layer of pulp on one side of the screening, progressively passing it about a second cylinder mould rotating in a pulp suspension with the layer of pulp thereon contacting with the mould to deposit a layer of pulp on the other side of the screening, and drying the resulting composite web.

1,748,999. CLEANING FLUID. CHARLES F. RUDZENIA, Oakland, Calif. Filed Mar. 1, 1927. Serial No. 171,912. 1 Claim. (Cl. 87—5.)

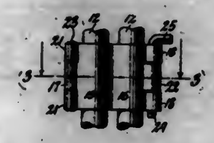
As a composition of matter, a cleaning fluid formed by mixing the following ingredients in the following proportions: fatty acids 33%; pine oil 15%; potash 5%; water 10%; soft petrolatum 5%; benzine 4½%; alcohol 1¼%; acetone 12½%; banana oil ½%; cocoanut oil ¾%; and hydrocarbon solvent 12½%.

1,749,000. COUPLING FOR FENCE POSTS. JOHN C. SCHEELER, Buffalo, N. Y., assignor to Buffalo Wire Works Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 27, 1928. Serial No. 328,705. 3 Claims. (Cl. 256—1.)



1. A coupling for connecting two fence posts or like members, comprising two plates which normally oppose each other and each of which is provided at its opposite ends with jaws adapted to engage with the corresponding sides of said members and said plates having loops which cross each other, and a pin insertable between said crossed loops.

1,749,001. COUPLING FOR FENCE POSTS AND THE LIKE. JOHN C. SCHEELER, Buffalo, N. Y., assignor to Buffalo Wire Works Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed Jan. 18, 1929. Serial No. 333,262. 3 Claims. (Cl. 256—1.)



2. A coupling for connecting two fence posts or like members, comprising two plates which normally oppose each other and each of which is provided intermediate of its ends with two jaws adapted to engage with the corresponding sides of said members, pivot eyes arranged on one pair of the corresponding ends of said plates, a pivot pin passing through said eyes, locking eyes arranged on the other corresponding pair of ends of said plates and crossing each other, and a locking pin insertable between said crossed locking eyes.

1,749,002. WRENCH. JOHN J. SCHNEIDER and EDWARD NESTER, Buffalo, N. Y. Filed Dec. 6, 1927. Serial No. 238,082. 3 Claims. (Cl. 81—165.)

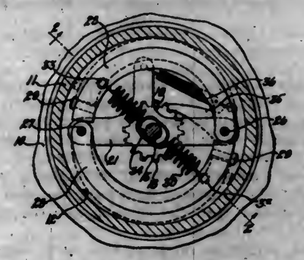


1. A wrench including a handle, relatively movable jaws carried by said handle, a rack on one of said jaws cooperating to effect relative movement of said jaws, a knurled worm moving said rack and means for locking said jaws comprising a spring detent fixed at one end to said handle and having a tooth at its outer end which is adapted to be moved into and out of engagement with the knurled surface of said worm, and means for moving said spring detent into and out of engagement with said worm comprising an element having a reduced shank arranged in registering slots provided in said handle and spring detent and heads arranged along opposite sides thereof, said element being movable along said slots to compress said spring detent toward said handle, said element being operable from opposite sides of the wrench.

1,749,003. MERCERIZED WOOD-FIBER TISSUE AND PROCESS OF PREPARING SAME. MILTON O. SCHUR and ROYAL H. RASCH, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Jan. 5, 1927. Serial No. 159,285. 20 Claims. (Cl. 260—146.)

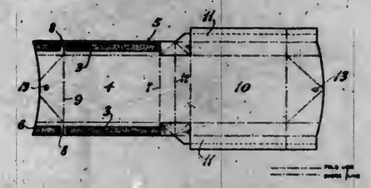
4. That step which comprises treating a wood fiber web with a caustic soda solution of mercerizing strength containing an oxidant, washing the web substantially free from treating chemicals, and converting into a cellulose derivative.

1,749,004. SPEED-REGULATING DEVICE. MARION LLEWLLYN STRAWN, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 13, 1927. Serial No. 183,425. 6 Claims. (Cl. 188—134.)



1. In a centrifugal governor, a stationary cup-shaped member, a rotatable member, means movable on the rotatable member comprising a pair of arcuate diametrically oppositely pivoted members, means secured to each of said members for frictional braking engagement with a surface of the stationary member in response to centrifugal force, means normally causing said members to be drawn inwardly an equal amount to disengage the frictional means from the surface of the stationary member, and means for adjusting the rotatable member along its axis of rotation for varying the braking force applied by the pivoted members upon said surface and thereby the speed of rotation of the rotatable member.

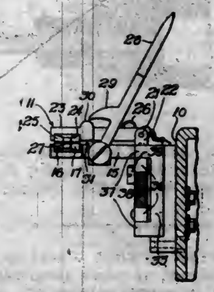
1,749,005. MULTIPLEX BAG. WILLIAM L. TAYLOR, Cincinnati, Ohio. Filed July 22, 1927. Serial No. 207,675. 2 Claims. (Cl. 229—55.)



1. A multiplex bag having outwardly extending ears and comprising a cover and liner, the liner being entirely removed or cut out in that portion of the bag which forms the ears to permit said ears to be perfectly and compactly folded against the bottom of the bag.

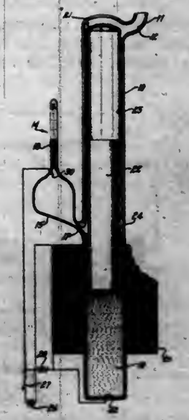
1,749,006. CLAMPING DEVICE. BRUNO MAX ALFRED TREBES, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 20, 1923. Serial No. 646,729. 1 Claim. (Cl. 219—4.)

The combination with an apparatus for electrically brazing articles, of a pair of clamping devices each comprising a pair of jaw members, one of which is pivotally mounted with respect to the other, means for resiliently urging the pivoted clamping device about its pivot and toward the other clamping device to exert a pressure upon the abutting ends of the articles to be brazed, and a lever pivoted on one of the jaw members of each clamp-



ing device, said lever having a plurality of cam surfaces which engage the other jaw member to move it between its open and closed positions and to selectively lock it in such positions.

1,749,007. PRESSURE-GAUGING APPARATUS. CHARLES WALES, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 20, 1926. Serial No. 149,570. 12 Claims. (Cl. 73—31.)



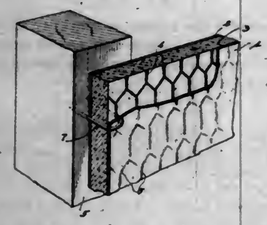
1. In a pressure gauge, a liquid retaining means, a liquid medium contained therein, a pressure registering means for communication with a pressure system and connected with the retaining means, and means operable within the retaining means for introducing liquid from the retaining means into the registering means.

1,749,008. INSULATING MATERIAL. HOWARD GEORGE WALKER, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 31, 1927. Serial No. 216,625. 2 Claims. (Cl. 106—13.)



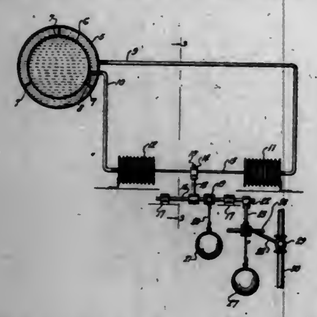
1. An insulating material comprising approximately 50 to 55% rubber, 18 to 23% hard rubber dust, 15 to 5% silica gel, 7.75% zinc oxide, 6.25% litharge, 2% sulphur, and 1% paraffin.

1,749,009. PLASTER BOARD. CURRY O. WALPER, Detroit, Mich., assignor, by mesne assignments, to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed July 23, 1926. Serial No. 124,355. 6 Claims. (Cl. 154—45.9.)



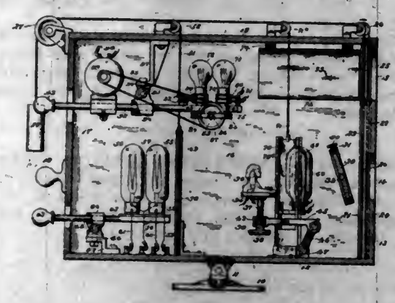
1. In a board having a core interposed between sheets of facing material, a reinforcing wire fabric interposed between one of said sheets and said core.

1,749,010. HEAT-ACTUATED DEVICE. CORNELIUS G. WEBER, Milwaukee, Wis. Filed Jan. 12, 1928. Serial No. 246,284. 10 Claims. (Cl. 137—161.)



1. A heat actuated device comprising actuating mechanism, means normally engaging said actuating mechanism to hold the same in inoperative position, thermostatic means rapidly influenced by rapid changes in temperature for controlling said engaging means, and a second thermostatic means affected less rapidly than the first mentioned thermostatic means by rapid changes in temperature, but affected the same in substantially the same length of time by slow temperature changes for preventing the first mentioned thermostatic means from operating the engaging means when a slow temperature change occurs.

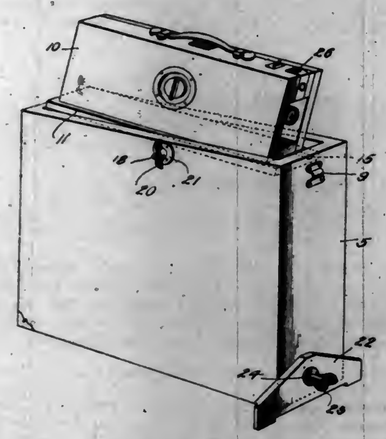
1,749,011. LIGHT-PROJECTION DISPLAY. THOMAS WILFRED, Huntington, N. Y. Filed Aug. 30, 1924. Serial No. 735,168. 28 Claims. (Cl. 272—10.)



8. The art of light projection display comprising projecting upon a curtain through a lens a beam of light and interposing an object in the light path behind the lens to cast its shadow while at the same time independently illuminating the object to develop details of the object on the projected shadow, namely by maintaining within the object an interior source of light separate from the beam of light projected upon the curtain, and the object having light transmitting walls.

10. Light projection display apparatus comprising a front lens, a filamentary source of light to the rear of the lens, means for holding a three dimensional object in the light path between the light source and lens to throw its shadow, means for rotating the holding means about an axis crossing the light path between the light source and lens, means for simultaneously illuminating the front of the rotating object, and means for cooperatively operating the rotating means and progressively moving the light source during projection.

1,749,012. CAMERA CARRYING AND SUPPORTING MEANS. THOMAS CARROLL WILLSON, Philadelphia, Pa. Filed Nov. 14, 1927. Serial No. 233,168. 14 Claims. (Cl. 95—86.)



1. A camera carrying and supporting means comprising a case, means for supporting a camera at the upper end of said case, and adjustable means for supporting the latter in desired angular relation with a supporting surface.

1,749,013. AIR BAG AND METHOD OF MANUFACTURING SAME. WILLIAM S. WOLFE, Akron, and JESSE R. CROSSAN, Wadsworth, Ohio, assignors to Seiberling Rubber Company, a Corporation of Delaware. Filed Oct. 19, 1926. Serial No. 142,553. 17 Claims. (Cl. 18—59.)

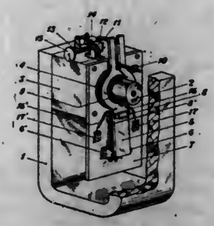


1. The method of producing an inflatable former, which consists in building the former of a plurality of continuous annular sections of unvulcanized rubber, said sections differing from each other in cross-sectional configuration, vulcanizing the sections separately, and uniting the vulcanized sections under internal pressure to form a complete whole.

1,749,014. MANUFACTURE OF BINAPHTHYLENEDIOXIDE-QUINONE. LUDWIG ZEH, Wiesdorf-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 4, 1928, Serial No. 310,443, and in Germany Oct. 13, 1927. 4 Claims. (Cl. 260—54.)

1. Process which comprises reacting upon finely divided binaphthylene dioxide suspended in water with chromic acid at a temperature between about 20–50° C.

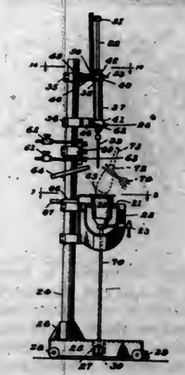
1,749,015. METER. FREDERICK C. BISBEE, Elizabeth, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 14, 1927. Serial No. 239,931. 4 Claims. (Cl. 175—339.)



1. In combination, a magnet having adjacent pole pieces, a coil armature adapted to move between said pole pieces, pivotal means supporting said armature, and magnetic means fastened to said armature and adapted to be influenced by said magnet.

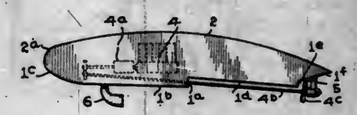
1,749,016. METHOD OF AND APPARATUS FOR MAKING TUBING. HARRY R. BOALS, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Dec. 8, 1927. Serial No. 238,565. 7 Claims. (Cl. 49—29.)

2. In an apparatus for shaping tube blanks, a base, a standard thereon, a yoke supported on the standard, a mold pivotally mounted in the yoke, said mold having a punty receiving opening in its bottom wall, a punty extending through said opening with its moil end disposed within the mold, means on the base for engaging the handle end of the punty to prevent accidental movement of



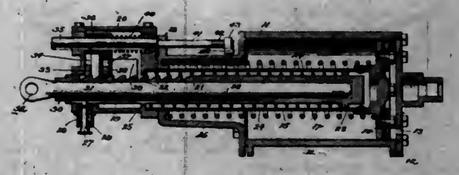
the mold and a reciprocating plunger carried by the standard above the mold and adapted to be projected into the mold.

1,749,017. SPEED BOAT. HENRY LOWE BROWNBACK, Norristown, Pa., assignor to Brownback Motor Laboratories, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1925. Serial No. 57,185. 1 Claim. (Cl. 114—66.5.)



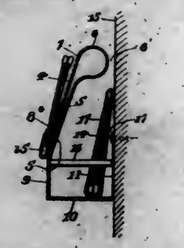
A water borne craft comprising a hull of truss construction, substantially rectangular in plan, having an aerodynamic upper surface conforming substantially with an aerofoil curve extending the entire length of the hull from bow to stern, and having a stepped hydrodynamic bottom surface of corresponding length; said hull having a relatively small cock-pit set therein flush with the upper surface; and means associated with the hull for propelling the same.

1,749,018. SLACK ADJUSTER. CHARLES ALBERT CAMPBELL, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed July 17, 1925. Serial No. 44,303. 11 Claims. (Cl. 188—200.)



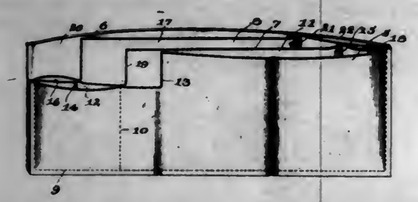
1. The combination with an air brake cylinder unit including a tubular piston rod, of a ratchet thrust member in telescoping relation with said rod; a slack adjuster of the ratchet type supported by said rod and forming a self adjusted driving connection between said rod and thrust member; a second thrust member adapted for connection with brake rigging and in telescoping thrust relation with said ratchet thrust member, and said ratchet thrust member being rotatable relatively to said second thrust member and to said tubular piston rod; and releasable means for locking said ratchet thrust member against rotation.

1,749,019. MATCH HOLDER. JOHN LEE CLARKE, Forest Hills, N. Y. Filed Mar. 17, 1928. Serial No. 262,347. 7 Claims. (Cl. 206—20.)



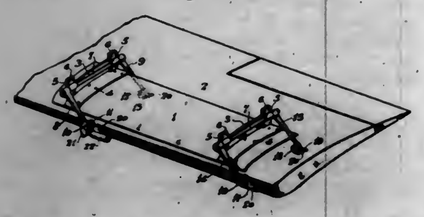
1. A match holder comprising a rearwardly inclined base having means on one end adapted to support same in an inclined position, a rearwardly and forwardly extending resilient loop on the opposite end of the base, a downwardly extending clamping arm projected from said loop and arranged in opposed relation to the base and cooperating with the latter to secure a match book thereon.

1,749,020. BILL FOLD. JOHN A. CURRY, Mount Vernon, Ala. Filed Mar. 28, 1928. Serial No. 265,405. 5 Claims. (Cl. 150—38.)



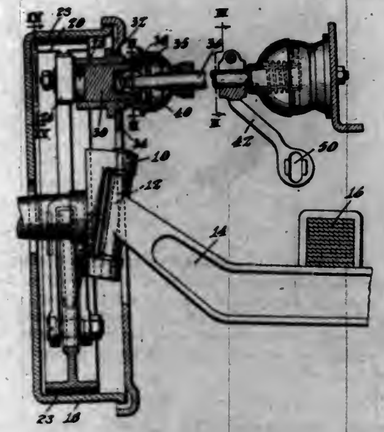
1. A billfold including front and rear walls, longitudinal dividing walls extending the length of the bill fold, said walls being stitched to each other by vertical stitchings at spaced points intermediate their respective lengths to form pockets placed in offset arrangement.

1,749,021. AEROPLANE. EDWARD H. DAVIS, Cincinnati, Ohio. Filed Feb. 22, 1929. Serial No. 341,861. 1 Claim. (Cl. 244—12.)



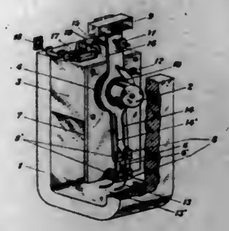
In combination with an aerofoil for aeroplanes, an automatic air deflector comprising, in combination, an elongated vane, right angle brackets carried by said vane, bearing straps carried by said brackets, a pair of shafts rotatably mounted in said bearing straps, a pair of levers pivotally mounted on the ends of each shaft, means for pivotally mounting the lower end of each lever to the upper surface of said aerofoil, and positive means for raising said levers comprising a tubular member anchored to the aerofoil, a plunger movably mounted within said tubular member, a spring to normally move said plunger outwardly from said tubular member, and an arm fixed to one of said levers and adapted to engage said plunger, for the purposes specified.

1,749,022. BRAKING OF WHEELS. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1927. Serial No. 170,133. 17 Claims. (Cl. 188—194.)



1. A king pin, a wheel and a brake therefor arranged to turn on said king pin, a universal joint for operating the brake comprising a first axis extending generally transverse to the direction of the king pin axis and a second axis perpendicular to the first axis, said second axis, when the brake is set, being tilted out of the plane perpendicular to the straight forward position of the wheel plane and passing through the king pin axis.

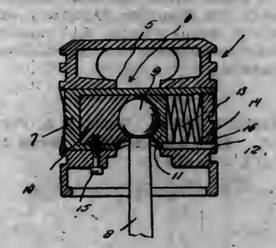
1,749,023. METER. WILLIAM H. EDWARDS, Flushing, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 14, 1927. Serial No. 239,935. 8 Claims. (Cl. 175—339.)



1. In combination, a magnet having concentric pole pieces, a coil armature adapted to move between said pole pieces, and resilient means fastened to and supporting said armature at one end thereof and tending to center said armature at its midposition, the weight of said armature being adapted to counteract the force exerted on said armature by said resilient means.

1,749,024. PISTON PIN. WILLIAM E. FENNEL, Jr., Moberly, Mo. Filed May 7, 1928. Serial No. 275,839. 2 Claims. (Cl. 74—108.)

1. As a new product of manufacture, a piston pin comprising a cylinder closed at one end, a sectional core arranged in said cylinder and embodying relatively stationary and movable sections, said sections having their adjacent portions provided with semi-spherical recesses cooperating in producing a spherical socket for connection



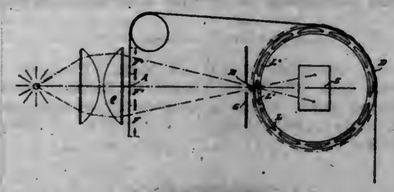
of a ball joint connector, together with spring means arranged in one end portion of the cylinder and cooperable with the relatively movable section.

1,749,025. PIECED-CLOTH FORMATION. EMIL GALATI, Chicago, Ill. Filed Oct. 14, 1927. Serial No. 226,188. 2 Claims. (Cl. 112—262.)



1. A pieced cloth formation comprising a channeled edging stitched on the contiguous edges of the pieces joined, and a stitched connection through the crowns of the said edgings in a plane parallel with and adjacent one surface of the joined pieces, said stitches lying entirely within the plane formed by said pieces.

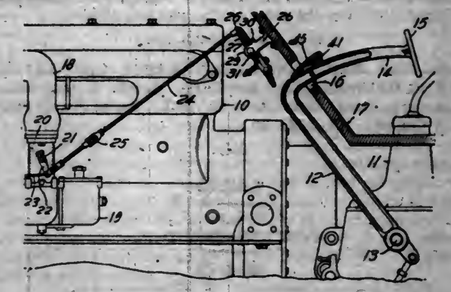
1,749,026. CINEMATOGRAPHIC MACHINE. AUGUSTO GENTILINI, Rome, Italy, assignor to Società Anonima Radio, Rome, Italy. Filed Aug. 28, 1926, Serial No. 132,299, and in Italy Sept. 11, 1925. 3 Claims. (Cl. 88—16.8.)



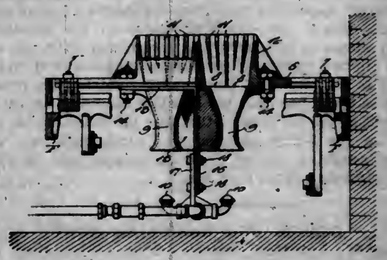
1. A cinematographic machine comprising a rotating cylinder having a toothed crown for engaging the perforations of the film, a plurality of lenses disposed on the periphery of said cylinder, a light source, a condenser disposed between said light source and said cylinder, said lenses being arranged to occupy a position spaced from the film a distance corresponding to the focal length of the lenses, a fixed diaphragm disposed in front of said rotating cylinder between said cylinder and said condenser and adapted to limit the field of action of the lenses having substantially a rectilineous movement, said film being adapted to pass in front of said condenser, and a fixed prism arranged in the interior of the rotating cylinder for deflecting the light beams onto a screen from the condenser after having passed through said film and the said objectives.

1,749,027. ATTACHMENT FOR MOTOR VEHICLES. FRED C. GOLDSMITH, Houston, Tex. Filed May 10, 1928. Serial No. 276,787. 17 Claims. (Cl. 192—01.)

13. A device of the character described comprising a pair of associated operating members one connected to the clutch pedal of a motor vehicle and the other to the throttle of the carbureter thereof, said members being adapted to coact to effect opening movement of the throttle as the clutch pedal approaches operative position and being ineffective for causing movement of the throttle upon movement of the clutch pedal toward inoperative position, said members being wholly disengaged when the clutch pedal is in operative position.

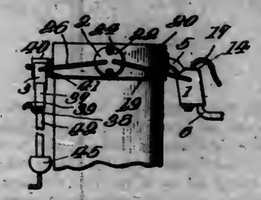


1,749,028. SMOKE CONSUMER. JOHN W. HULSON, Keokuk, Iowa, assignor to Hulson Grate Company, Incorporated, Keokuk, Iowa, a Corporation of Iowa. Filed Sept. 13, 1928. Serial No. 305,764. 8 Claims. (Cl. 110—60.)



1. A smoke consumer for furnaces, comprising a Venturi tube, means for mounting said Venturi tube in a substantially vertical position, a fluid nozzle at the lower end of said tube for upwardly directing a blast of fluid therethrough to induce ascent of air through the tube, a continuous upwardly opening wall around the upper end of said Venturi tube, and a plurality of upwardly diverging webs spanning the space within said wall for diffusing the air and fluid ascending through said tube.

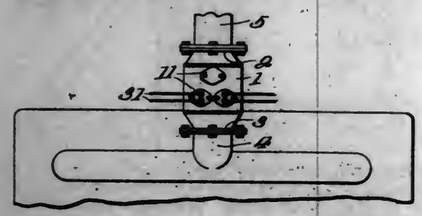
1,749,029. VAPORIZER FOR HYDROCARBON ENGINES. JAMES W. INGLETON, Astoria, Oreg. Filed Aug. 18, 1925. Serial No. 50,961. 2 Claims. (Cl. 123—133.)



1. A charge forming device for hydrocarbon engines including in combination, a vaporising chamber, means for supplying hydrocarbon oil to said chamber, means for utilising the exhaust gases from said engine for vaporising the oil in said chamber, a superheater closed to the atmosphere projecting into the combustion chamber, means

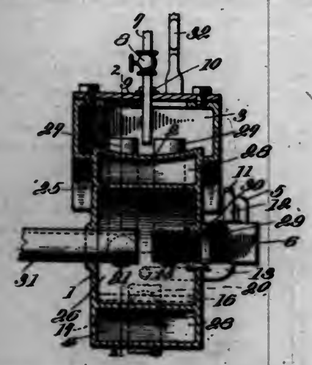
for passing the vaporized oil from the vaporizing chamber through said superheater whereby said vaporized oil is superheated and further vaporized in the absence of air, and means for mixing air with the superheated vaporized oil and directing the same to the engine cylinder.

1,749,030. EXPLOSIVE-FUEL-MIXTURE GENERATOR FOR HYDROCARBON ENGINES. JAMES W. INGLETON, Astoria, Oreg. Filed Aug. 18, 1925. Serial No. 50,962. 3 Claims. (Cl. 123—25.)



1. A vaporizer for hydrocarbon engines comprising a casing, means for passing the exhaust gases from the engine through said casing, a plurality of generating chambers located in said casing and connected one to another, means for supplying oil to one of said chambers whereby the oil fed thereto will be vaporized and caused to pass into another chamber, means for leading the vaporized oil from said last named chamber out through the casing into an air mixer, means for regulating the supply of oil to said chambers, means for supplying water to the chambers whereby steam is generated and intermixed with the vaporized oil, and means for regulating the amount of water supplied to the chambers, the chamber receiving the vaporized oil being higher than the chamber receiving the oil to be vaporized and inclined so that any oil collecting on the bottom of the higher chamber will drain back into the chamber receiving the oil from the supply and be subjected to further vaporizing heat.

1,749,031. DEVICE FOR GASIFYING HEAVY OILS. JAMES W. INGLETON, Astoria, Oreg. Filed June 10, 1926. Serial No. 114,985. 2 Claims. (Cl. 48—107.)



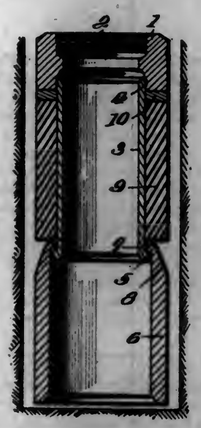
2. A device for gasifying heavy oils, comprising a casing, an inclined partition dividing said casing into an upper oil vaporizing chamber and a lower combustion chamber, a pipe extending through the upper wall of the casing for feeding heavy oil on to the inclined partition, said upper wall having a series of openings whereby said pipe may be shifted and the heavy oil fed onto said inclined partition at different distances from the lower end thereof, means for collecting the heavy constituents separating from the oil on said inclined partition and supplying the same to the combustion chamber for burning, said combustion chamber having an air intake, a cross partition in said combustion chamber forming a compartment, a pipe extending from said compartment through said inclined partition to a point above the same for directing the vaporized heavy oils from the vaporizing chamber into said compartment, means whereby said vaporized oil may be led from said compartment, and means for supplying air to the vaporized oil.

1,749,032. SLEEVE FORM. WILLIAM A. FINKEL, Washington, D. C. Filed May 2, 1928. Serial No. 274,657. 1 Claim. (Cl. 223—18.2.)



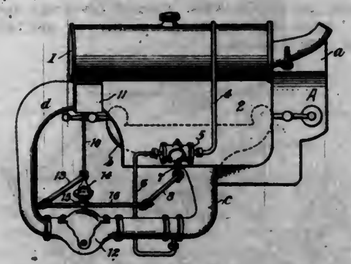
A sleeve-form for use with garments otherwise supported on body forms, comprising a flexible inflatable body having an exterior outline corresponding to that of a garment sleeve, means to permit inflation of the body for distension within the sleeve of the garment, and a flexible friction tab extending from the upper end of the body to be inserted and frictionally held between the body-form and garment beyond the sleeve to support the sleeve-form within the sleeve, the flexibility of the tab permitting a particular sleeve-form to be used with either garment sleeve.

1,749,033. BOTTOM HOLE PACKER. CHARLEY W. FISHER, Coffeyville, Kans., assignor to Robinson Packer Company, Tulsa, Okla., a Corporation of Oklahoma. Filed July 2, 1926. Serial No. 120,133. 6 Claims. (Cl. 166—10.)



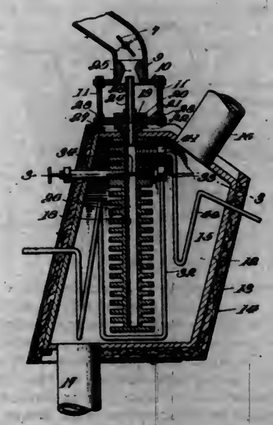
2. A bottom hole packer comprising a pair of telescoping sections, one of the sections being provided with a packing sleeve and a packing ring, the other section being provided with a tapering portion to expand the packing sleeve and adapted to engage the packing ring so as to seal the space between the telescoping sections.

1,749,034. AUTOMATIC THERMOSTATIC AUTO FUEL MIXER. IRL W. HUMPHREY, Terre Haute, Ind. Filed Feb. 12, 1927. Serial No. 167,748. 1 Claim. (Cl. 123—25.)



In an automatic thermostatic auto-fuel mixer, the combination with an internal combustion engine, of a water-container, mounted upon and adapted to be heated by contact with the manifold of said engine, a metal apron attached to and pendent from said water-container and side of the crank-case of the engine, a tube in fluid-passage connection with the top of said water-container, and a cutoff-valve located in said tube, a tube leading from said cutoff-valve to an inlet provided at the base of the intake of the engine, a forked lever fixed upon the projecting end of the valve-stem of said cutoff-valve, a thermostatic member comprising a coil-spring attached to said apron and adapted to expand when heated by radiation from the engine, and a shaft attached at its upper end to the free end of said coil-spring, a forked-lever fixed upon the lower end of said shaft, a connection-rod pivotally connecting the outer ends of said two forked-levers, a fork-like connection mounted upon the extreme lower end of said shaft and in oprative connection with the stem of the needle-valve of the carburetor of the engine, a lever fixed upon said shaft and adapted to operate in unison with the lever attached to the valve-stem of said valve, a connecting-rod extending between said two levers and adapted to operate the said two valves in unison.

1,749,035. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. JAMES WILLIAM INGLETON, Astoria, Oreg. Filed Mar. 19, 1925. Serial No. 16,743. 2 Claims. (Cl. 123—188.)



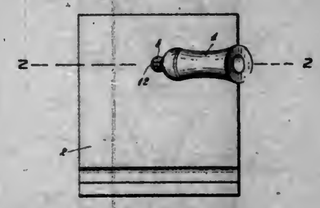
1. A carburetor comprising a casing forming an outer chamber, a vertically disposed member located within said outer chamber and having a vaporizing chamber formed therein, means for passing the exhaust gases from a hydrocarbon engine through said outer chamber for heating the vaporizing chamber, a supply tank associated with said casing, a pipe leading from the supply into the outer chamber and in a circuitous path in said chamber to an intake port formed in the wall of the member located in the casing for feeding oil to the vaporizing chamber, a needle valve for controlling said intake port, said intake port being disposed at an elevation above the surface of the oil in the supply tank whereby the oil is drawn from the tank into the vaporizing chamber by the suction force of the engine, said member containing the vaporizing chamber being circular in cross section and having horizontally projecting ribs, said ribs extending from one side of the casing to the other, the intake for the exhaust gases being at one side of said member and the outlet at the other whereby the exhaust gases pass between the ribs for heating said member.

1,749,036. EXTENSION DEVICE. JOSEPH N. KUEHNE, Bellevue, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., Corporation of Kentucky. Filed Aug. 5, 1927. Serial No. 210,850. 11 Claims. (Cl. 24—71.)



1. In means of the character described, a pair of bands, a folding section disposed between the inner end of each of said bands comprising a link and a housing, said housing having inturned spaced apart flanges provided with a series of pairs of spaced apart slots and hingedly connected to said link at their inner ends, the inner end of one of said bands being hingedly attached to the outer end of said link, the inner end of the other band having an upturned lip adapted for engagement within a selected pair of said spaced apart slots in said housing for longitudinal adjustment of said last mentioned band relative to said housing, and locking means for holding said housing in nested relation with said link.

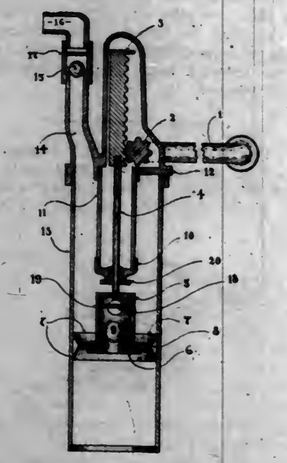
1,749,037. SUPPORT FOR FOUNTAIN-PEN HOLDERS. DAVID J. LA FRANCE, Cambridge, Mass., assignor to The Carter's Ink Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1928. Serial No. 258,173. 2 Claims. (Cl. 120—108.)



1. In a support of the swiveling type for the holder of a fountain pen, a base having a socket opening from the under side of the base and presenting a concave surface on its interior, said base having also a hole extending from the top surface thereof into said socket, a pin having a head extending above said base and a shank extending through the hole in the base with extension into the

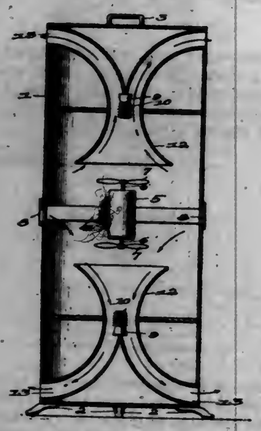
socket therein, said pin having also a flange with frictional bearing against the top surface of the base around the hole in it, a tightening nut on said shank of the pin inside said socket, a flat spring interposed and tensioned between said nut and the concave surface of the socket in the base with the ends of the spring gripping said surface, and means for pivotally mounting said holder on the head of said pin.

1,749,038. PUMP UNIT. JESSE D. LANGDON, Los Angeles, Calif. Filed Mar. 24, 1928. Serial No. 264,296. 1 Claim. (Cl. 103—225.)



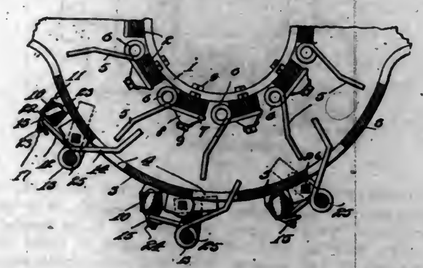
A piston comprising a pair of soft metal cups disposed back to back and having rims extending away from one another to be compressed within a cylinder, a bushing extending through said cups, a valve cage threaded on said bushing and clamping said cups, and a valve seatable on said bushing within said cage.

1,749,039. PORTABLE ELECTRIC AIR HEATER. ADDISON TURNEY LINCECUM, El Campo, Tex. Filed Mar. 20, 1929. Serial No. 348,595. 1 Claim. (Cl. 219—39.)



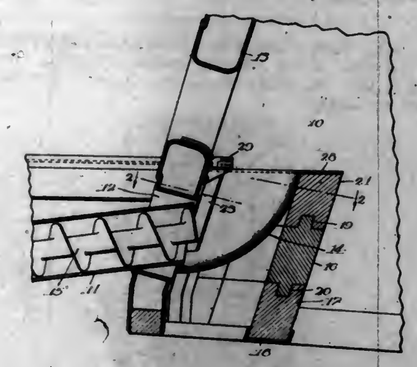
A portable electric air heater comprising a casing, a motor having fans at its opposite ends positioned at the central portion of said casing, heating elements above and below said motor, cone-shaped air deflecting members in the upper and lower ends of said casing provided with means for supporting said heating elements, and annularly arranged inlet passages disposed at the central portion of said casing and annular outlet passages at the top and bottom of said casing.

1,749,040. STRIPPING-FINGER ADJUSTMENT FOR THRASHING MACHINES. CARL R. LIVERMON, Roxobel, N. C. Filed Mar. 22, 1928. Serial No. 263,783. 11 Claims. (Cl. 130—30.)



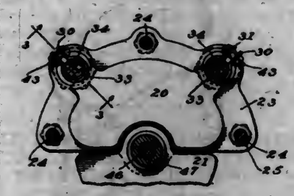
3. In a thrashing machine, a row of movably anchored stripping fingers, a member common to and connecting said fingers intermediate of their ends for movement as a unit, and means supporting said member and manually operable to move said member in opposite directions to cause it to project and retract the stripping ends of said fingers as a unit into and away from the zone of stripping operation, respectively.

1,749,041. LOCOMOTIVE STOKER. NATHAN M. LOWER and EDWIN ARCHER TURNER, Pittsburgh, Pa., assignors, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y., a Corporation of Delaware. Filed June 4, 1926. Serial No. 113,782. 9 Claims. (Cl. 110—101.)



1. In a locomotive stoker, in combination, a boiler having a firebox, the backhead thereof being apertured for the introduction of fuel, a wall of masonry substantially U-shaped in horizontal section, extending inwardly from the backhead of the boiler and partially enclosing the backhead aperture, angle bars secured to the backhead and engaging shoulders on the wall, a riser conduit within the chamber partially enclosed by the wall, means for delivering fuel to the riser conduit, and means for forcing fuel therethrough.

1,749,042. VARIABLE CONDENSER. ALBERT E. MARSHALL, Baltimore, Md., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Sept. 8, 1924. Serial No. 736,632. 1 Claim. (Cl. 175—41.5.)



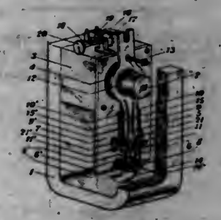
A condenser mounting, comprising end plates, stator plates, an insulator extending between the end plates, and means for securing the stator plates rigidly thereto, said means comprising a clamp member provided with a plurality of recesses through which the ends of the stator plates are inserted and bent at right angles to the surface of the stator plates, and means for rigidly securing the clamp member to the insulator.

1,749,043. SCREW. JOSEPH NEISER, London, Ohio. Filed Feb. 27, 1929. Serial No. 343,055. 3 Claims. (Cl. 85—45.)



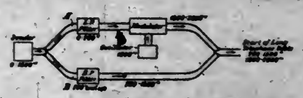
1. A screw having a head and a threaded shank depending from said head, the head having means projecting from the outer surface thereof and a slot embraced by the projecting means, said projecting means being adapted to be formed into a smooth surface to close the slot against unauthorized manipulation of the screw.

1,749,044. METER. ELIOT W. NILES, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 14, 1927. Serial No. 239,934. 5 Claims. (Cl. 175—339.)



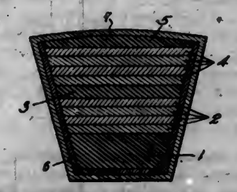
1. In combination, a magnet having adjacent pole pieces, an armature supported by pivotal means, a coil fastened to said armature and adapted to move between said pole pieces, and means under stress fastened to said armature and adapted to influence its movement through its arc of vibration.

1,749,045. SIGNALING SYSTEM. HARRY NYQUIST, Millburn, and KENNETH W. PFLEGER, Arlington, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed June 11, 1927. Serial No. 198,285. 11 Claims. (Cl. 178—44.)



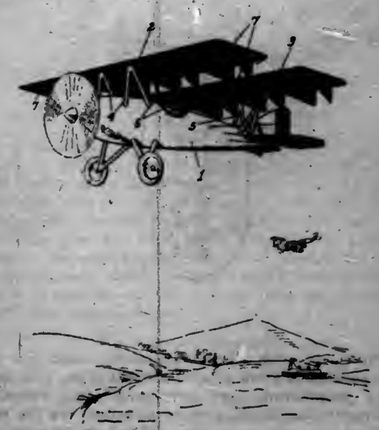
2. The method of compensating for the departure from exact cut-off given by filters when separating components of a signal wave in separate channels according to frequency, which consists in equalising the attenuation and phase shift in the separate channels and thereafter combining the currents in those channels.

1,749,046. POWER-TRANSMISSION BELT. EDGAR W. SNYDER, Philadelphia, Pa., assignor to L. H. Gilmer Co., Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 15, 1928. Serial No. 254,407. 1 Claim. (Cl. 74—63.)



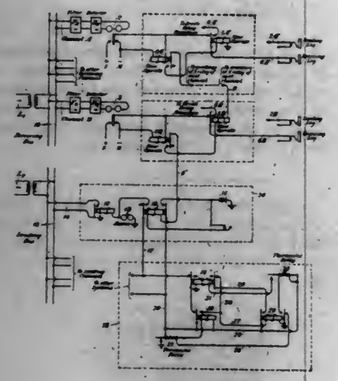
A V driving belt including a layer of rubber at its inner circumference, a reinforce layer, superposed on the rubber layer, a cushion layer superposed on the reinforce layer, a rubberized layer of open weave fabric cut on the bias superposed on the cushion layer and a rubber layer on the outer circumference, a covering enclosing said layers on three sides, and an outer covering completely enveloping the whole.

1,749,047. AIRPLANE. GEORGE C. ST. LOUIS, Fresno, Calif. Filed Oct. 9, 1928. Serial No. 311,290. 2 Claims. (Cl. 244—12.)



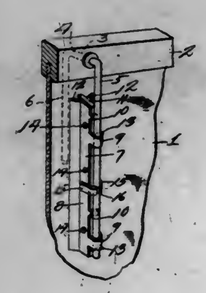
1. In an airplane, a wing, and air compressing plates secured to and depending from the under surface of the wing in planes at right angles thereto, and arranged in pairs; the plates of each pair diverging from each other to the rear edge of the wing, and meeting each other at the front edge of the wing.

1,749,048. CARRIER-TELEGRAPH ALARM SYSTEM. VAUGHN P. THORP, River Edge, N. J., and WILTON T. REA, Flushing, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 6, 1928. Serial No. 259,521. 5 Claims. (Cl. 178—69.)



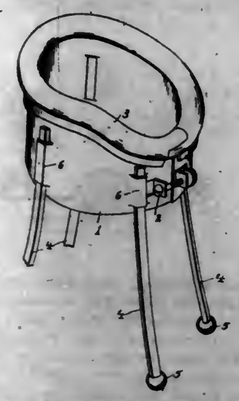
1. A carrier telegraph system comprising a line circuit over which carrier currents are normally flowing, transmitting channels and receiving channels associated with said line circuit, an alarm circuit completed by the joint failure of all of said receiving channels due to an abnormal line circuit condition, and means controlled by the completion of said alarm circuit for intermittently disabling said transmitting channels.

1,749,049. WINDSHIELD CLEANER. ELDON A. TURNER, Graniteville, Mass. Filed Apr. 18, 1928. Serial No. 270,925. 2 Claims. (Cl. 15—255.)



1. The combination with a windshield wiper arm movable in parallel relation to a windshield glass, of a frame rockably mounted on said arm, said frame comprising spaced registering strips, a wiper strip between the registering strip, securing means passing through the registering strip and the wiper strip, the rear edges of said registering strips being connected together by arcuate integral bearing members arching the wiper arm, one of the registering strips being provided with integral lugs extending under the wiper arm and forming a bearing for one side of said arm.

1,749,050. FACE SHIELD. RAYMOND E. WALKER, Wollaston, Mass. Filed Jan. 25, 1928. Serial No. 249,391. 3 Claims. (Cl. 4—159.)



1. As a new article of manufacture a device of the character described comprising a tubular member having a top edge that is made undulating and of a size and shape to fit throughout its circuit against the front of a person's face so as to bear against the forehead, temples, cheeks and lower lip, and means for supporting said member in an elevated position with its undulating top edge uppermost and its lower end open to the atmosphere.

1,749,051. SAFETY-RAZOR HANDLE. JAMES ALEX. DENBY WATT, London, England. Filed Oct. 18, 1926, Serial No. 142,444, and in Great Britain July 6, 1926. 1 Claim. (Cl. 30—12.)



A safety razor handle comprising a plurality of frustro-pyramidal members telescopically related to one another, the smaller end of each member being of less size on the interior than the larger end of the next succeeding smaller member, on the exterior, means in the smallest member for the attachment of a blade holder to the handle and a closure member to the larger end of the largest member.

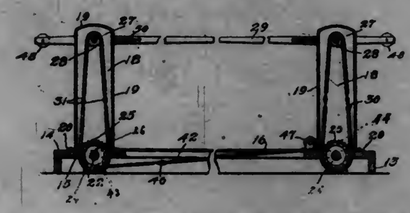
1,749,052. SHAVING BRUSH. JAMES ALEX DENBY WATT, London, England. Filed Feb. 10, 1928, Serial No. 253,396, and in Great Britain Mar. 16, 1927. 1 Claim. (Cl. 15—184.)



A shaving brush comprising a shank, bristles carried by the shank, an outer sleeve mounted for longitudinal

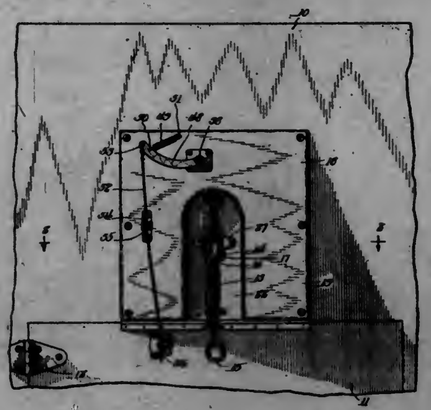
movement on the shank and arranged when in one position to surround and protect the bristles, said shank and sleeve being provided with coengaging screw threads and means to limit the extent of movement of the sleeve, and a foot member provided at one end of the recess to receive and closely fit on the outer end of the shank and thereby detachably secured to the shank, said foot member being provided at the opposite end with a recess to receive and closely fit on the outer end of the sleeve and with a chamber to enclose and protect the outer ends of the bristles.

1,749,053. AUTOMATIC RAILWAY GATE. ADAM WIDUCH, STANLEY HAYDUK, and WALENTY SLIWA, Michigan City, Ind. Filed May 9, 1929. Serial No. 361,630. 5 Claims. (Cl. 246—293.)



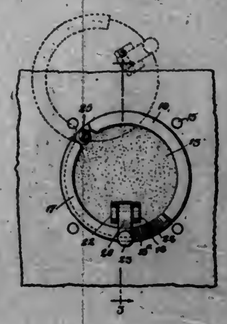
1. In an automatic railway crossing gate comprising swinging members, shafts disposed below the rails, means between said shafts and said swinging members for transmitting the rotation of said shafts to said swinging members for the purpose of bringing said swinging members from an upright open position to a horisontal closed position, bars associated with the rails, the ends of said bars adjacent the crossing being bent towards said shafts, said bars being adapted for actuation by the wheels of the train, lever arms rigidly connected by their one ends to said shafts, the other ends of said lever arms being in pivotal connection with said bent ends of said bars, and means upon the ties for laterally supporting said bars for maintaining the same in an operative association with the rails.

1,749,054. ICE-BOX ATTACHMENT. AKOS ANDREW YERGA and MIKE EVANOWFF, Hammond, Ind. Filed Aug. 31, 1927. Serial No. 216,699. 22 Claims. (Cl. 268—48.)



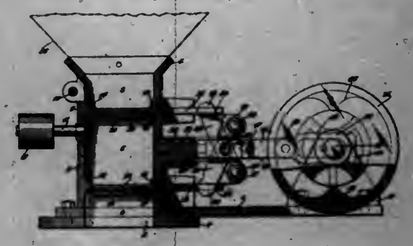
1. In a closure device the combination of a main door, a track extending on both sides of and above said door, slidable door means for normally closing the space around said track, means tending to close said door means, said means being controlled by operating means directly connected to and readily releasable from said main door.

1,749,055. DOOR ATTACHMENT. GEORGE W. ACKERMAN, New York, N. Y. Filed June 30, 1928. Serial No. 289,351. 9 Claims. (Cl. 20—89.)



1. A door grille including an open cross barred frame adapted to be secured in an opening in a door, and a closure plate swivelly connected to the inner face of said frame, a handle for operating the plate, and stop means coacting with the plate to prevent opening movement thereof beyond a position where it is gravitationally returnable, said stop means comprising complemental arcuate ribs on the interior of the frame and closure plate.

1,749,056. MEASURING DEVICE. HERMAN S. ALBRECHT, St. Louis, Mo. Filed May 10, 1926. Serial No. 108,196. 6 Claims. (Cl. 221—112.)

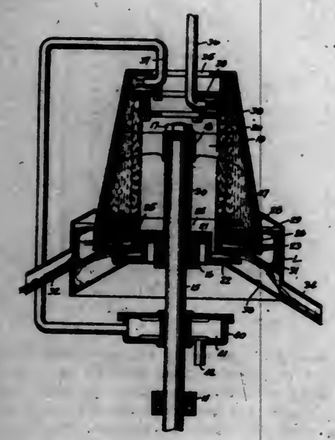


1. A measuring device comprising a housing having an opening in one side thereof, a pair of spaced plates mounted in said housing and forming a measuring chamber between them, one of said plates being opposite said opening, a hinged wall in said opening adapted to be moved outwardly by pressure of material actuated by said plate which is opposite said opening, and mechanism for reciprocating said plates to open and to close the passage to said measuring chamber and to open and to close the outlet from said chamber.

1,749,057. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. ARTHUR L. ARMENTROUT, Los Angeles, Calif. Filed Nov. 11, 1926. Serial No. 147,764. 12 Claims. (Cl. 233—14.)

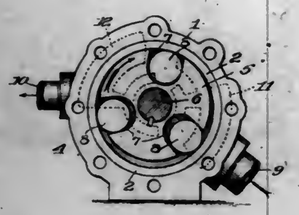
1. A separating apparatus comprising a centrifugal vessel of frusto-conical form, means for revolving the vessel, means for supplying a composition having a light constituent and a heavy constituent to the vessel at the small end thereof, means for supplying a carrier liquid heavier than the light constituent and lighter than the

heavy constituent to the small end of the vessel but separately from the composition so as to prevent intermixing of the light constituent with the carrier liquid, and outlets



at the large end of the vessel through which the light constituent is discharged from the vessel separately from the heavy constituent and the carrier liquid.

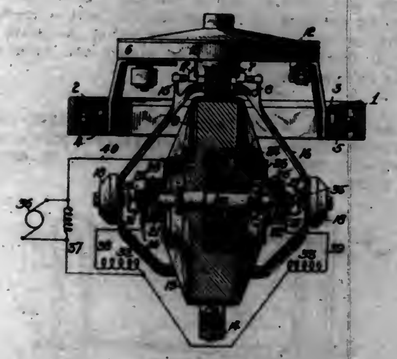
1,749,058. ROTARY PUMP. LESTER P. BARLOW, Stamford, Conn. Filed Feb. 14, 1928. Serial No. 254,222. 17 Claims. (Cl. 103—136.)



1. In a rotary pump, a housing having a rotor chamber with intake and discharge openings, a rotor in said chamber and having radial slots, roller pistons loosely fitting in said slots to allow for an equalisation of the fluid pressure on the entire high pressure side of the pistons during the pumping stroke, and fluid passage means permitting the fluid to be conducted away from the advancing side of the pistons as they pass over the high point of the rotor to prevent trapping of fluid in advance of the pistons in the rotor chamber.

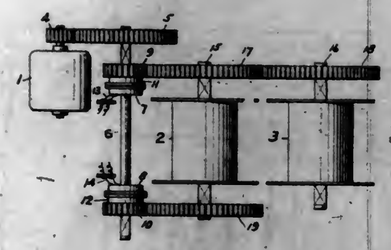
1,749,059. GYROSCOPIC COMPASS. PRESTON R. BASSETT, Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 5, 1923. Serial No. 630,034. 15 Claims. (Cl. 33—226.)

1. In a gyroscopic compass, a rotor, means for mounting the same for spinning about a normally horizontal axis including rotor bearings permitting said rotor to shift its position axially in response to changes in the resultant direction of the forces acting thereon whereby meridian seeking properties are imparted thereto.



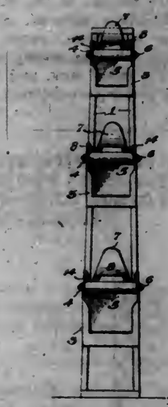
14. In a gyroscopic compass, the combination with the sensitive element including the rotor, and a follow-up element, of electro-magnetic means acting between said elements for exerting torque on the sensitive element to impart directive power thereto, and a pressure sensitive means on said sensitive element at an end of the rotor axle, and adapted to receive the end thrust of the rotor upon inclination of the rotor axle, said means being in circuit with said first-named means for controlling the same.

1,749,060. CABLE-CONTROL DEVICE. ROBERT H. BEAUMONT, Radnor, Pa., assignor to R. H. Beaumont Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1928. Serial No. 328,253. 1 Claim. (Cl. 254—185.)



A cable control device comprising in combination a driving motor, two separate cable drums keyed to two separate shafts, a third shaft having two driving members for two electric clutches fast thereon and two driven members of two electric clutches rotatable thereon, pinion members rotatable on said third mentioned shaft adapted to be driven by said electric clutch members, gear trains between said first and second mentioned shafts and said pinions on said third mentioned shaft for driving said drums, means for driving said third mentioned shaft from said motor, and brushes for carrying current to said clutches.

1,749,061. BAG-DELIVERING MACHINE. EARL BLACKER, Everett, Wash. Filed May 7, 1929. Serial No. 361,125. 6 Claims. (Cl. 211—52.)



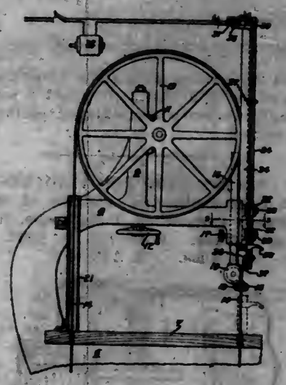
1. In a bag delivering machine, the combination of a rack having a series of spaced hooks for engaging bag holding casings, a plurality of such bag holders, said bag holders being of different sizes, each of said bag holders comprising a casing to receive the bags, a U-shaped arm affixed to the casing and adapted to be engaged by one of said hooks on the aforesaid rack, a freely rotatable roller mounted in the upper portion of the casing of the bag holder, a weight element pivotally mounted on the aforesaid U-shaped arm, said weight member also having a wire hook element extending forwardly and loosely engaging the outermost bag, whereby to automatically open the outermost bag to facilitate its withdrawal by the operator.

1,749,062. SIGN DEVICE. ARTHUR R. BLOOM, Minneapolis, Minn. Filed Apr. 27, 1927. Serial No. 186,946. 12 Claims. (Cl. 40—132.)



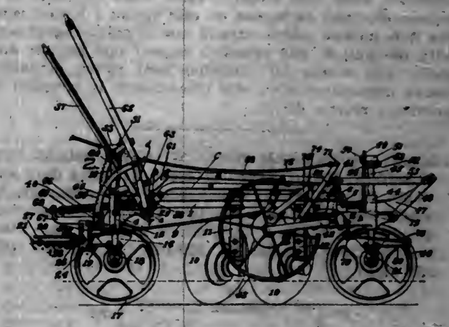
1. A sign display device having in combination, a translucent sheet having a picture on its front side adapted to be illuminated and viewed by reflected light, said sheet having a picture on its opposite side alined with said picture adapted to be viewed compositely therewith by light passing through said sheet, means separate from and in the rear of said sheet of similar outline to and covering certain portions of said first mentioned picture but exposing others, a light source forward of said sheet and a light source in the rear of said sheet, said sources of light being adapted to be alternately operated whereby when said last mentioned light source is operated, portions of said pictures are accentuated and a relief effect produced.

1,749,063. SAFETY DEVICE. SAM R. BROWN, Burlingame, Calif., assignor of one-half to Joseph A. Brown, San Francisco, Calif. Filed Nov. 26, 1927. Serial No. 235,825. 7 Claims. (Cl. 143—159.)



7. In combination with a band saw, a frame for said saw, an electric motor for driving said saw, a supply circuit for said motor, a guard for said saw vertically slidable on said frame, and electro-magnet means actuated from said supply circuit for retaining said guard in its upper position.

1,749,064. GANG PLOW. THEOPHILUS BROWN, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 21, 1921. Serial No. 486,642. 16 Claims. (Cl. 97—73.)



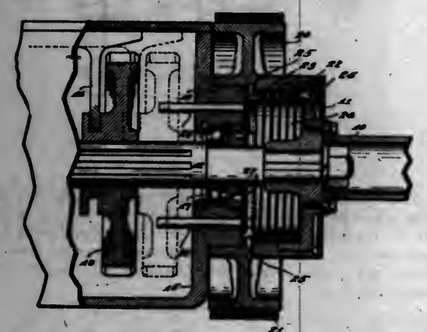
1. In a power lift gang plow, the combination of a frame including a plow-carrying beam, front and rear furrow wheels, a landwheel, means operable to adjust said frame relatively to the landwheel to vary the depth of plowing, and mechanism independent of said means and actuated by power from one of said wheels to raise the furrowward part of the frame relatively to said furrow wheels irrespective of adjustment of the landward part thereof with respect to the land wheel.

1,749,065. MEANS FOR BERTHING AIRSHIPS. CHARLES DENNISTON BURNEY, Westminster, London, England, assignor to Airship Guarantee Company Limited, London, England, a British Company. Filed Dec. 20, 1928, Serial No. 327,239, and in Great Britain Jan. 30, 1928. 7 Claims. (Cl. 244—2.)



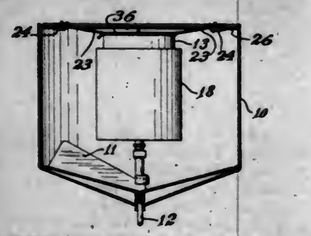
1. Means for berthing an airship comprising a carriage consisting of an undivided section and a section divided longitudinally into two portions hinged together and to said undivided section.

1,749,066. SAFETY STOP FOR VEHICLES. RALPH B. BURTON, Indianapolis, Ind., assignor of one-half to L. G. S. Devices Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Jan. 5, 1928. Serial No. 244,580. 10 Claims. (Cl. 192—4.)



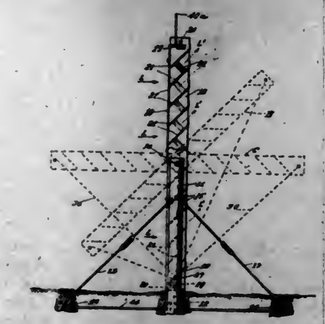
1. In an automobile having a transmission capable of being arranged to provide forward and reverse drive, one or more driving wheels, and a propeller shaft for transmitting power from said transmission to said driving wheels; the combination of a helical spring rotatable with said propeller shaft, a member having a cylindrical recess co-axial with said spring, spring actuating means normally operative when said propeller shaft tends to rotate in a reverse direction to impose on said spring a torque causing it to unwind and to expand into gripping engagement with the wall of said recess to connect said member and shaft, and means for rendering said spring actuating means inoperative when said transmission is arranged to provide a reverse drive.

1,749,067. ICE-CREAM-FREEZING ATTACHMENT FOR WASHING MACHINES. CLIFFORD ELBRIDGE COLE and BASIL W. MCGINNIS, Birmingham, Ala., assignors, by mesne assignments, to Nineteen Hundred Corporation, Binghamton, N. Y., a Corporation of New York. Filed Oct. 14, 1927. Serial No. 226.107. 12 Claims. (Cl. 259—53.)



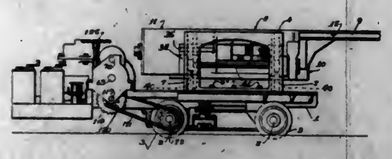
1. An ice cream freezing attachment for a washing machine having a vertically disposed stationary tub, open at the top, an agitator in the bottom of the tub and means to impart rotary motion to the agitator, comprising an ice cream freezer having a stationary brine tank and a rotary cream receptacle within the brine tank and arranged concentrically therewith, radially arranged supporting means connecting the brine tank with the walls of the tub and so disposed as to position the brine tank substantially concentric with respect to the axis of rotation of the agitator and above the agitator, coupling means provided on the cream receptacle, power transmitting means coacting with the coupling means and extending through the bottom of the brine tank, and means for detachably connecting the power transmitting means to the agitator.

1,749,068. ORCHARD PROTECTIVE SYSTEM. JOHN DEL REA DE LAND, Pico, Calif. Filed May 22, 1928. Serial No. 279,788. 7 Claims. (Cl. 47—1.)



1. An orchard protective wind-break structure embodying a normally vertical louver wall adapted to be erected at the windward side of the orchard and to deflect wind currents upward and above the orchard, the height of said wall being substantially that of the orchard trees.

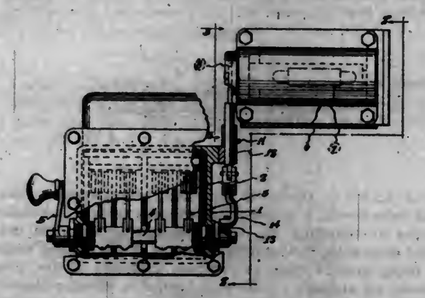
1,749,069. MINING MACHINE. EDWARD J. DOBERSTEIN, Blue Island, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 29, 1923. Serial No. 683,330. 11 Claims. (Cl. 262—28.)



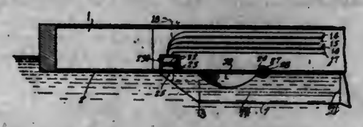
1. In a mining machine, a base, a turntable on said base, a cutting element supported for vertical movement on a plurality of uprights spaced apart on said turntable, said cutting element comprising a cutter arm at the forward end of said frame, a motor at the rear end of said frame and detachable connections thereto, permitting rearward withdrawal of said motor and supporting connections mounted on said frame for engagement with said upright supports.

1,749,070. ELECTRIC-CIRCUIT SAFETY LOCK. ALFRED B. ESSELTINE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1927. Serial No. 243,858. 3 Claims. (Cl. 200—50.)

1. In a device of the character described, the combination with an enclosed electric switch including a movable switch member, of an enclosed electric fuse mounting provided with an end opening for the insertion and removal of an electric fuse therein, and means operated by said switch member including a locking member movable over said end opening to prevent removal of a fuse in said mounting when said switch member is moved to closed circuit position.

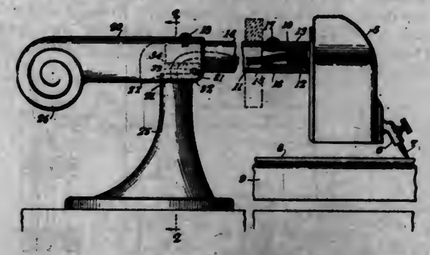


1,749,071. METHOD OF AND MEANS FOR PROPELLING SHIPS. FRAZER W. GAY, Newark, N. J. Filed June 5, 1928. Serial No. 282,920. 13 Claims. (Cl. 115—13.)



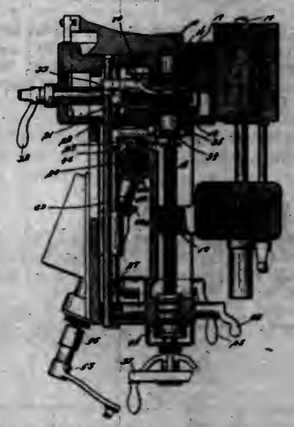
1. The method of propelling ships consisting in displacing the water in advance of the entrance surfaces of a ship's hull by exploding an explosive mixture beneath the surface of the water so that expansion of the explosion gases sets the water in motion downwardly and laterally away from the entrance portions of the hull, and applying a propelling force to the hull.

1,749,072. ELECTRIC PHONOGRAPH. CARL F. GOUDY, Flushing, N. Y., assignor to Pacent Radio Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1928. Serial No. 269,073. 10 Claims. (Cl. 179—100.41.)



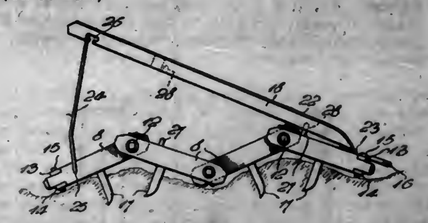
1. In electric phonographs, a vertically swivelled tubular member, a horizontally pivoted arm on the upper end of said member, said arm having a tubular forward end portion, an electric reproducer unit on the forward end of said arm, an electric conductor cord extending from said reproducer unit through the tubular portion of said arm and down the vertically swivelled tubular member and adjustable spring means acting on said vertically swivelled tubular member to control the laterally swinging action of the reproducer unit.

1,749,073. INTERLOCKING MANUAL AND POWER FEED CONTROL. BENJAMIN P. GRAVES, Edgewood, R. I., assignor to Brown & Sharpe Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Aug. 20, 1928. Serial No. 300,902. 18 Claims. (Cl. 90—21.)



1. In a milling machine, a saddle member having a transverse feed, a knee member having a vertical feed, a train of parts including power and manually operable feeding means for each of said members, a manually operable control device and means responsive to operation of said device for selectively engaging either of said trains to simultaneously render one feed of the train operative and the other feed of the train inoperative.

1,749,074. HARROW. JOHN FREDERICK HILL, Clatskanie, Oreg. Filed Mar. 8, 1928. Serial No. 260,069. 4 Claims. (Cl. 55—32.)



1. A flexible harrow, runners at the upper side of said harrow for use in transporting the latter when inverted, and means for supporting said runners above the harrow when the latter is in use, whereby said runners will not interfere with flexibility of the harrow.

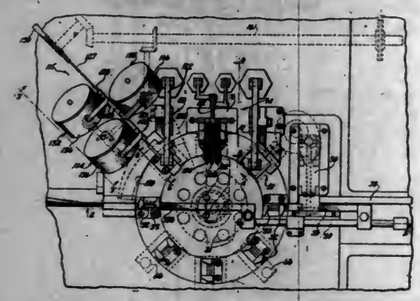
1,749,075. MEANS FOR SEPARATING ADHERING ROLLED METAL SHEETS. EUGEN HINDSEER, Hamborn, Germany, assignor to Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany, a Corporation of Germany. Filed Jan. 7, 1927, Serial No. 159,735, and in Germany Aug. 19, 1926. 4 Claims. (Cl. 29—17.)



1. An apparatus for separating adhering rolled metal sheets comprising in combination a device engaging be-

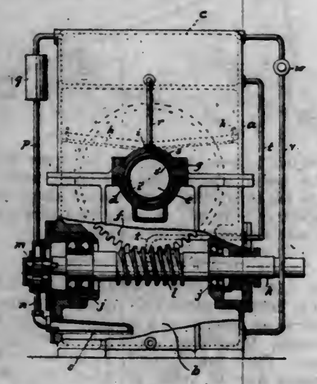
tween the sheets to be separated, means for pulling the sheets over said device, means for imparting to said device a separating motion during the travel of the sheets over the device, and immovable cutters coacting with said movable separating device.

1,749,076. APPARATUS FOR ASSEMBLING MEMBERS. ROBERT HOFSTETTER, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 15, 1927. Serial No. 168,314. 9 Claims. (Cl. 18—1.)



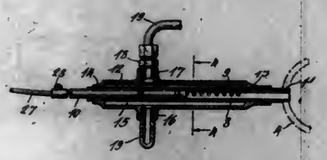
1. In apparatus for assembling previously gauged members with companion members, retaining means for individual supplies of previously gauged members, means for gauging companion members, actuating means therefor, and means operable in response to the actuation of the gauging means to selectively release members from the individual supplies thereof for association with the gauged companion members in accordance with the determination made by the gauging means.

1,749,077. OILING SYSTEM FOR GEARS. FRANK W. KENNEDY, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey. Filed Apr. 29, 1925. Serial No. 26,623. 5 Claims. (Cl. 184—6.)



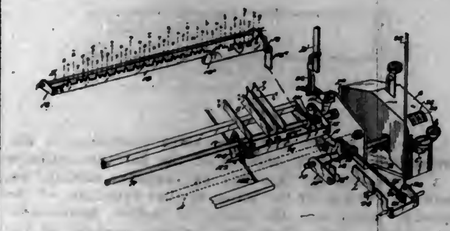
1. Means for oiling gears in mesh comprising a reservoir adapted to hold a lubricant in sufficient quantity to submerge a part of the gear tooth structure when the gears are idle, a lubricant-receiving chamber, a pump adapted to convey oil from said reservoir to said chamber, said chamber having a capacity for an amount of oil which when removed from the reservoir will lower the level therein below the gears and said pump having a capacity such that when the gears are started the level of the oil in the reservoir will be lowered below the gears, and an oil conduit adapted to convey oil from said chamber to the gear teeth at a rate below the capacity of the pump.

1,749,078. GAS SAVER AND CARBON REMOVER. ARTHUR H. LANGMAN, Denver, Colo., assignor to Arthur C. Leisenring, Denver, Colo. Filed May 4, 1929. Serial No. 360,419. 4 Claims. (Cl. 123—119.)



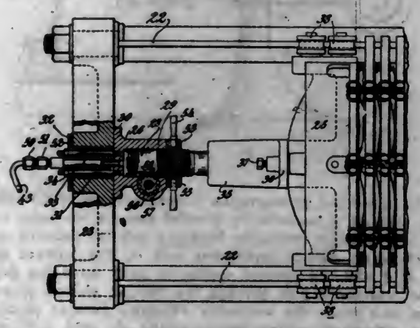
1. A device of the class described, comprising an elongated tube having a plurality of openings therein, a tubular member surrounding the tube and having its ends connected therewith, the interior diameter of the tubular member being greater than the outside diameter of the tube whereby an annular chamber is formed, a plunger located within the tube and slidable therein to cover and uncover one or more of said openings, the tubular member having an opening therein which is adapted to be connected with the crank case of an engine.

1,749,079. TYPEWRITER WORD REGISTER. LOUIS M. LLORENS, Los Angeles, Calif., assignor to Automatic Word Counter, Inc., a Corporation of New York. Filed Apr. 16, 1925. Serial No. 23,550. 11 Claims. (Cl. 235—102.)



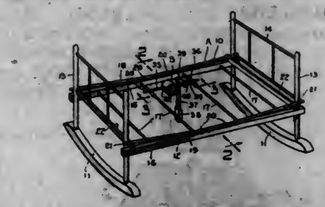
1. In a typewriter, a centrally disposed shiftable margin release finger member, a stationary front bar on which said member is mounted, and a word registering mechanism controlled by said member and including a thrust rod pressing said member in one direction and which is repressed by carriage action on said member.

1,749,080. HYDRAULIC FILTER PRESS. WILLIAM H. MATHERS, Hollis, N. Y., assignor to Richard Dudgeon, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 25, 1927. Serial No. 178,373. 1 Claim. (Cl. 210—188.)



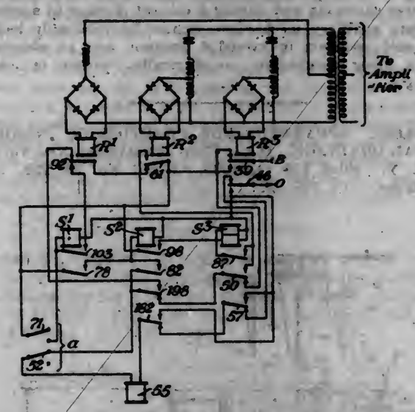
A filter press having a hydraulic jack mounted in its end support in place of a removed screw jack, said hydraulic jack having its base mounted against the inner surface of said support over the threaded opening originally provided to receive the screw, a retaining plate mounted against the outer surface of said support over the opposite end of said threaded opening, and fastening elements passing through said opening and connecting the base of said hydraulic jack with said retaining plate.

1,749,081. COMBINED DOLL'S CRADLE AND SOUND-PRODUCING MEANS. LOUIS MARX, New York, N. Y. Filed Jan. 28, 1928. Serial No. 250,152. 7 Claims. (Cl. 46—37.)



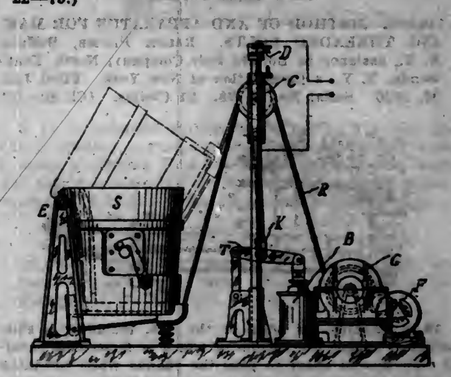
1. In combination, a doll's cradle comprising a bed body mounted for rocking movement; and a doll crier comprising a self-contained sound producing unit mounted for bodily sound producing movement on said cradle, said self-contained sound producing unit comprising a casing and sound producing means all contained within said casing, and means for operating the sound producing unit when the said cradle is rocked, said means including mechanism for imparting to said sound producing unit an arcuate movement greater in amplitude than that of the swinging arc of said cradle.

1,749,082. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1929. Serial No. 395,333. 5 Claims. (Cl. 246—63.)



1. Train carried railway traffic controlling apparatus comprising three relays R^1, R^2 and R^3, controlled in such manner that relays R^1 and R^2 are energized under "authorized" conditions, relays R^1 and R^2 are energized under "approach restricting" conditions, relay R^1 alone is energized under "slow" conditions, and all three relays are de-energized under "stop" conditions; three stick relays S^1, S^2 and S^3, a manually operable acknowledging switch a having a normally open contact 71, a pick-up circuit for relay S^1 including a back contact of relay R^3 and said contact 71, a pick-up circuit for relay S^2 including a back contact of relay R^3 and a front contact of relay S^1, a pick-up circuit for relay S^3 including a back contact of relay R^3 and a front contact of relay S^2, a stick circuit for relay S^3 including a back contact of relay R^3 and a front contact of relay R^2, a stick circuit for relay S^2 including a back contact of relay R^3 and a back contact of relay R^2 as well as a front contact of relay R^1, a stick circuit for relay S^1 including back contacts of relays R^3, R^2 and R^1, a brake valve magnet, a first circuit for said magnet including a front contact of relay R^2 and a back contact of each relay S^2 and S^1, a second circuit for said magnet including a back contact of relay R^3 and a front contact of relay R^2 as well as a front contact of relay S^2 and a back contact of relay S^1, a third circuit for said magnet including back contacts of relays R^2 and R^3 as well as a front contact of relay R^1 and a front contact of relay S^3, and a fourth circuit for said magnet including a back contact of relay R^3 and a front contact of relay S^1 as well as a front contact of relay S^3.

1,749,083. APPARATUS FOR POURING LIQUIDS SUCH AS MOLTEN METAL. ALBERT WOOD MORRIS, Drexel Hill, and SAMUEL PRICE WETHERILL, Jr., Haverford, Pa., assignors to Wetherill-Morris Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 18, 1929. Serial No. 347,976. 13 Claims. (Cl. 22—79.)



1. A ladle manipulating mechanism for pouring operations comprising means to support a ladle for pivotal movements, power tilting means operably connected to the ladle, a starting device for the tilting means, and means operable after the tilting means starts to automatically reverse its action on the ladle and again start the tilting operation whereby a surging action of liquid in the ladle is dampened upon initial pouring actions of the ladle.

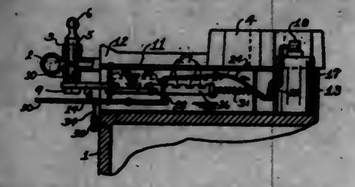
1,749,084. SHOE. ROBERT F. MCCARTHY, Webster Groves, Mo., assignor to International Shoe Company, St. Louis, Mo., a Corporation of Delaware. Filed Apr. 3, 1929. Serial No. 352,146. 3 Claims. (Cl. 36—58.5.)



1. A shoe comprising a shoe lining having a defined point therein, an elastic body attached to the outer side

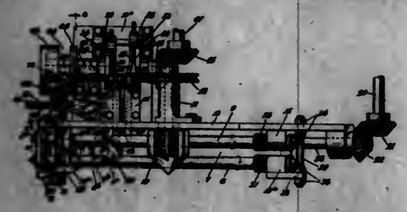
of the lining in a definite relationship to said defined point, a shoe upper having its upper edge secured to the lining, and a counter secured between the upper and the lining at the heel portion of the shoe and at the outer side of said body.

1,749,085. SAFETY CONTROL FOR GAS STOVES. CHARLES PEBBLES, Yonkers, N. Y. Filed June 17, 1927. Serial No. 199,507. 8 Claims. (Cl. 158—117.1.)



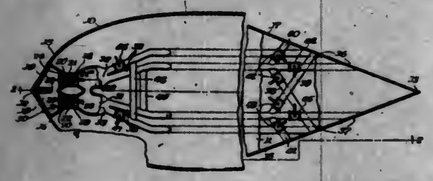
1. In combination with a gas burner and a thermostat, a radiant heat collector mounted adjacent to said gas burner and a heat conductor slidably engaging said heat collector and conductively connecting said heat collector with said thermostat.

1,749,086. METHOD OF AND APPARATUS FOR MAKING THREADED BOLTS. RALPH PLUMB, Buffalo, N. Y., assignor to Buffalo Bolt Company, North Tonawanda, N. Y., a Corporation of New York. Filed Jan. 26, 1926. Serial No. 88,778. 21 Claims. (Cl. 80—8.)



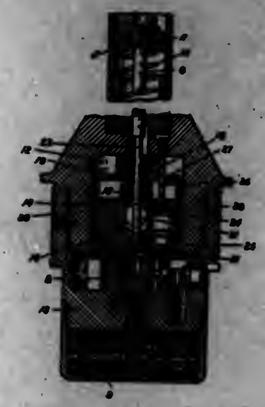
19. Apparatus for bolts or the like, including a slot-bottomed hopper the bottom of which is formed by parallel rolls spaced apart to pass the shanks while retaining the heads of the bolts, and means for rotating said rolls in opposite directions, with their adjacent bolt-engaging surfaces rotating upwardly and away from each other, said rollers having their axes inclined so that bolts properly entrained in the slots slide downward and, below the hopper, bolt-separating escapement mechanism for passing the bolts, one at a time, while holding back bolts in train behind the escapement, said rolls being formed with sections slidable endwise to permit dropping of the bolt heads therethrough, together with mechanism for operating the latter and said escapement in synchronous relation, a funnel guide into which said bolts fall, shank downward and mechanism in operative relation for receiving the bolts from the lower end of the funnel.

1,749,087. SHIP PROPULSION. PETER F. RILEY, Chicago, Ill. Filed Oct. 25, 1927. Serial No. 228,565. 4 Claims. (Cl. 115—16.)



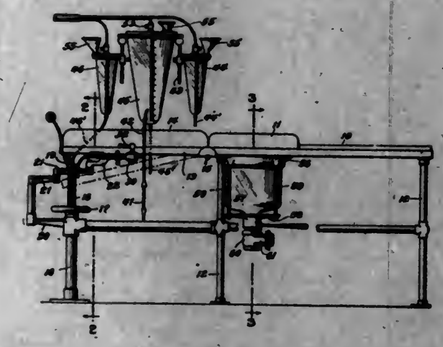
1. In a propulsion means for ships, in combination with the hull of the vessel, a funnel shaped intake at the forward part of the vessel below the water line, a propeller arranged axially of said intake at substantially the apex thereof, and substantially filling said intake at said apex and a water exhaust conduit extending aft from said propeller having an enlarged water expansion chamber therein, and means in said conduit for regulating the rate of flow of water therethrough.

1,749,088. FUSE FOR PROJECTILES. GILBERT E. ROGERS, Rockaway, N. J. Filed May 22, 1929. Serial No. 365,204. 11 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



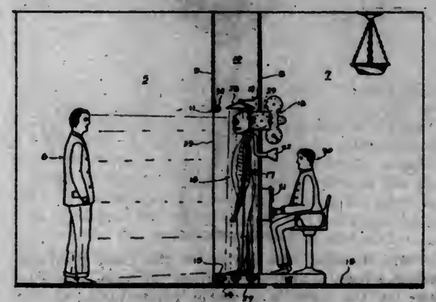
11. In a fuse, a plunger unit including a percussion plunger and a guide member cooperating to limit their relative extension and having a central passage to accommodate auxiliary mechanism, means for releasably locking said members in extended position, and an element of a firing mechanism, eccentrically carried by the plunger.

1,749,089. APPARATUS FOR PRACTICE OF DUODENAL DRAINAGE. OSCAR BOTO SCHELLBERG, New York, N. Y. Filed Feb. 4, 1929. Serial No. 337,252. 8 Claims. (Cl. 128—227.)



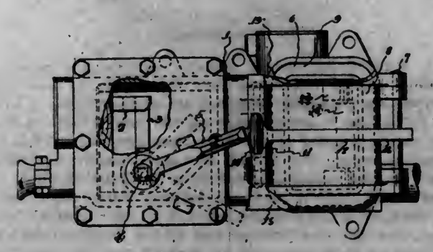
1. In a duodenal drainage apparatus, a patient supporting table, means for inclining the forward portion of said table downwardly, a swinging bracket carried by said table, a valve supported in said bracket, means for supplying a flow of medicated liquid through said valve, means associated with said valve for intestinal injection of liquids passed therethrough into the body of a patient disposed on said table, the forward portion of said table being hinged to incline below the horisontal, a screw secured to the hinged portion for lowering the same to secure gravitational flow of the liquids in the intestines, and means controlled by said valve for evacuation of the liquid from the intestines.

1,749,090. APPARATUS FOR OBTAINING CRIMINAL CONFESSIONS AND PHOTOGRAPHICALLY RECORDING THEM. HELENE ADELAIDE SHELBY, Oakland, Calif. Filed Aug. 10, 1927. Serial No. 212,102. 3 Claims. (Cl. 35—12.)



1. A device of the character described, comprising a chamber divided into compartments having partitioning means therebetween, an "apparition" disposed in one of said compartments and supported by said partitioning means, said "apparition" comprising a skeleton, a transparent envelop therefor constituting its body, means comprising an electrical circuit and a plurality of electric bulbs for suitably lighting said body to produce ghastly effects, electric bulbs in the sockets of the cranium of said skeleton, the said bulbs having exteriorly the appearance of eyeballs when illuminated, a camera within said cranium adapted to photographically and simultaneously record both scenes and words, and an electric circuit for suitably lighting the bulbs of the cranium, said circuits being controlled by switches carried by a switchboard located in the rear of said partitioning means.

1,749,091. ELECTRIC CIRCUIT SAFETY LOCK. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1927. Serial No. 243,886. 4 Claims. (Cl. 200—50.)



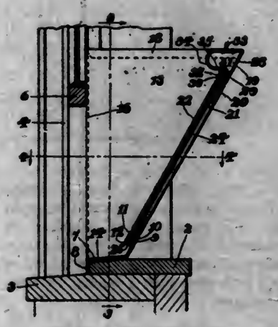
1. In a device of the character described, the combination with a pivoted electric switch member, of a cover locking member pivotally mounted on an axis transverse to and spaced from the axis of said switch member for movement into and out of locking position, and a concave surface formation on said locking member and extending axially thereof and engageable with the free end of said switch member to prevent movement of said locking member out of locking position while said switch member is in closed circuit position.

1,749,092. ASH GATE. LESLIE E. STRINGEL, Cleveland, Ohio, assignor, by mesne assignments, to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 15, 1928. Serial No. 639,118. 3 Claims. (Cl. 110—171.)



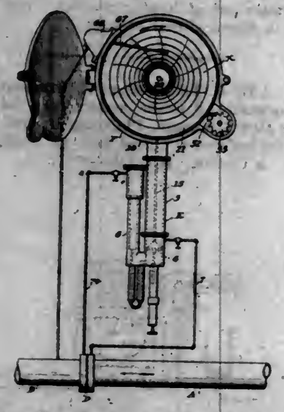
3. In combination with a hopper having a bottom discharge opening, a trough having spaced upstanding walls, a flange projecting from the hopper between said walls, and means beneath the hopper for causing liquid passing through the hopper to be discharged in said trough.

1,749,093. WINDOW VENTILATOR. FRANK M. ANDRAS, Garrett, Ind. Filed Oct. 1, 1928. Serial No. 309,507. 4 Claims. (Cl. 98—99.)



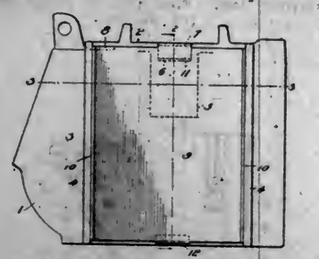
1. A window ventilator comprising, a base member having an angularly disposed part formed with a channel, a pair of end members, each having at its forwward edge a flange formed with a channel, said angularly disposed part having its end portions overlapping said flanges, and a plate having marginal portions thereof disposed within said channels and coacting with the walls thereof to force said overlapping portions into frictional engagement with said flanges for maintaining said base and end members in assembled relation.

1,749,094. INTEGRATING AND RECORDING DEVICE FOR FLUID METERS. JAMES R. ARMSTRONG, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 5, 1922. Serial No. 572,846. 26 Claims. (Cl. 234—34.)



17. In a recording device, a record sheet, means for periodically moving the record sheet, means for limiting the movement of the record sheet, a variable actuating means for operating the limiting means proportionately to the value of a variable quantity, and means for recording on the record sheet.

1,749,095. JOURNAL BOX. DONALD S. BARROWS, Rochester, N. Y., assignor, by mesne assignments, to The Symington Company, a Corporation of Maryland. Filed July 13, 1922. Serial No. 574,666. 17 Claims. (Cl. 105—225.)



1. The combination with a journal box for pedestal trucks, and a wear plate or liner detachably connected thereto, said wear plate being formed with an angular portion adapted to engage a pair of faces on the journal box and connected to said box by bendable tongues engaging a wall portion thereof, a portion of said wall being thickened and provided with a pocket therein for receiving one of said tongues.

1,749,096. LINK. JOHN B. BAXTER, Troy, N. Y., assignor to Covert Manufacturing Company, Watervliet, N. Y., a Corporation of New York. Field May 6, 1929. Serial No. 360,943. 5 Claims. (Cl. 24—232.)



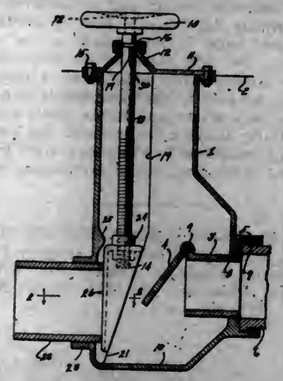
1. A link including two substantially similarly formed members, each having a body part with a hook portion at each end thereof, said members being pivotally connected at their body parts, the hooks of the respective members mating to form eyes and having overlapping outer sections reduced in thickness and provided with flat inner faces, each of said hook portions being provided with a shouldered portion on its inner side extending forwardly from its thicker inner section and with a recess in its outer end portion, the shouldered portions of the hook portions of one member engaging the recesses of the other member when the hook portions are brought together.

1,749,097. ARTIFICIAL TREE. ANTONE BLAZIC, Los Angeles, Calif. Filed Dec. 18, 1928. Serial No. 326,712. 6 Claims. (Cl. 41—15.)



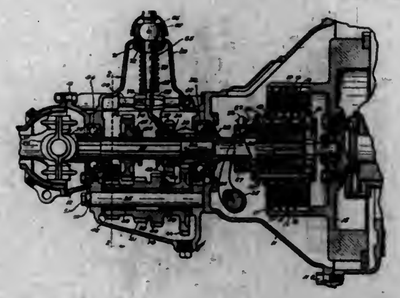
1. An artificial tree device of the class described including a base, a staff rising from the base, and a basket frame on the staff, said basket frame including a plate with wire arms fixed thereto, radiating outwardly therefrom and curved upwardly and inwardly.

1,749,098. BACK-PRESSURE VALVE FOR DRAINAGE SYSTEMS. EDWARD W. N. BOOSEY, Detroit, Mich. Filed Nov. 26, 1926. Serial No. 150,755. 4 Claims. (Cl. 182—26.)



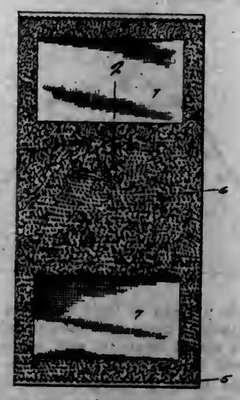
1. A fitting for sewage conduits comprising a casing, a hollow member extending into the casing at one side adapted for connection with a drain and providing an inlet to the casing, a swing valve on the said member within the casing adapted to normally close the said conduit by pressure within the casing, an outlet conduit extending into the said casing at point below the inlet member, the said outlet conduit having a finished inner end, a valve member within the casing adapted to be moved to position over the said finished end of the outlet conduit or withdrawn therefrom, and an inclined way in the casing engaged by the valve in its movement to closed position providing a means for wedging the valve against the end of the outlet conduit.

1,749,099. TRANSMISSION. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Oct. 5, 1927. Serial No. 224,095. 1 Claim. (Cl. 74—89.)



In a device of the character described, a transmission housing having a cover, a shift rod extended through said cover, said shift rod having a ball and socket connection with said cover, a coil spring encircling said shift rod within said cover, a gasket member yieldingly urged by said spring to form a liquid tight joint between the shift rod and the casing, and a washer having an open side adapted to engage the shift rod and to be engaged by the spring to place the gasket and said ball and socket connection between the rod and cover under spring pressure, said washer being readily detachable from the rod by compressing the spring and moving the pressure washer laterally.

1,749,100. COMBINATION BATH TOWEL. PER HEIBERG, Nogales, Ariz. Filed Nov. 24, 1928. Serial No. 321,636. 1 Claim. (Cl. 139—396.)



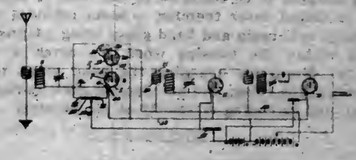
In a combination towel of the character described, a length of fabric of elongated rectangular configuration wherein a certain portion of the fabric inwardly from opposite ends thereof is tightly woven to provide on opposite faces of the towel a pair of relatively large smooth plain areas, and the remaining portion of the fabric being loosely woven to provide on opposite sides thereof a Turkish effect the major portion of the loosely woven area being between the two plain areas and of a greater width and breadth than either of the latter areas of the towel, and each of said plain areas being incompassed by certain remaining loosely woven portions of the fabric.

1,749,101. COMBINATION CONCRETE-MIXER TURNTABLE AND SUBGRADER. JOSEPH WILLIAM HELTZEL, Warren, Ohio. Filed July 27, 1925. Serial No. 46,423. 6 Claims. (Cl. 94—39.)



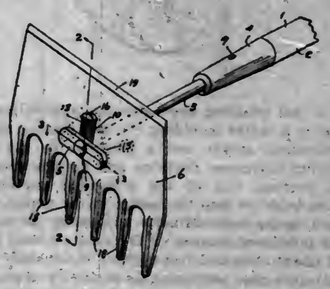
6. A turntable comprising wheels to roll on the side rails defining the side edges of a road under construction, a base adapted to be disposed between said rails and connected to said wheels for up and down movement off and on the ground, and a turntable platform mounted on said base.

1,749,102. RADIORECEIVER. WILLIAM HENRY KITTO, Ferndale, Mich. Filed June 10, 1925. Serial No. 36,125. 2 Claims. (Cl. 179—171.)



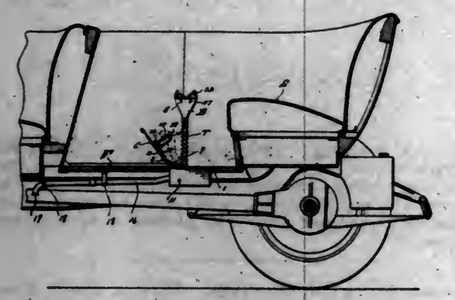
2. In a circuit comprising an input inductance, an output transformer and an amplifying tube, an additional tube having a filament shunted across the filament leads of said amplifying tube, a rheostat interposed between the negative leads of said tubes, a movable contact cooperating with said rheostat, a source of "A" current supply, said contact being connected to the negative terminal of said source, the grids of each tube being connected to one end of said input inductance, the other end of said input inductance being connected to the negative lead of said first named amplifying tube, the plate of said amplifying tube being connected to one end of the primary winding of said output transformer, a source of "B" current supply, the other end of said output transformer being connected to the plate of said additional tube and to the positive terminal of said source of "B" current supply.

1,749,103. FIRE-FIGHTING TOOL. JOHN C. KORTICK, San Francisco, Calif. Filed Sept. 26, 1927. Serial No. 222,064. 4 Claims. (Cl. 306—23.)



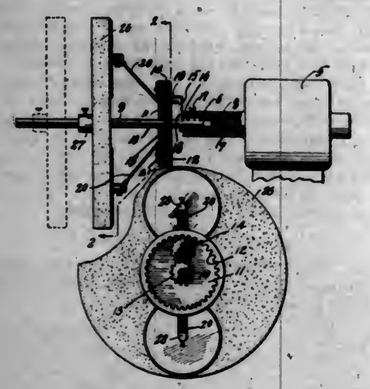
1. A fire fighting tool comprising a handle having an enlarged end, a blade having an opening for receiving said end, cooperating means carried by said blade and said end for preventing rotation of said blade with respect to said end, a clamping member having a lug receivable in the blade opening and means for moving said member against said blade.

1,749,104. URINAL FOR AUTOMOBILES AND OTHER VEHICLES. RUDOLPH KOVACS, Detroit, Mich. Filed July 15, 1929. Serial No. 378,443. 5 Claims. (Cl. 4—110.)



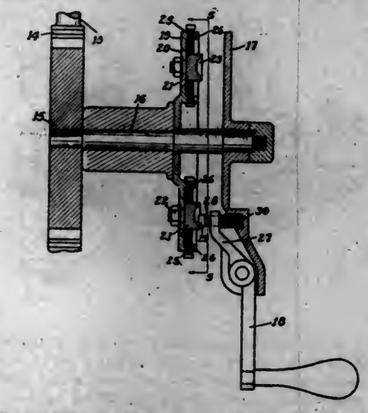
1. A urinal apparatus for automobiles comprising a housing adapted to be installed in the floor of said automobile, a hinged cover therefor, a basin provided with a hand grasp, said basin and hand grasp being adapted to be confined within the housing when the cover is closed, means for detachably engaging the hand grasp to hold the urinal to the cover, and an eduction tube leading from the basin and extending exteriorly of the housing.

1,749,105. TOOL GRINDER. WILLIAM EMERY LUTZ, Amarillo, Tex. Filed Nov. 18, 1925. Serial No. 69,879. 2 Claims. (Cl. 51—133.)



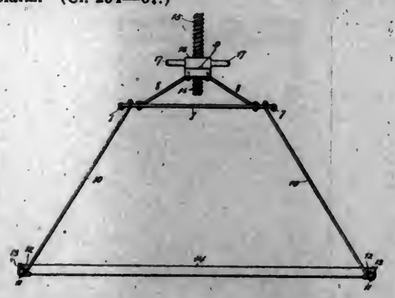
1. In a tool grinding apparatus for application to and actuation by a motor including the usual motor shaft having a polygonal socket and a housing for the shaft, a shaft having polygonal portions and an intermediate cylindrical portion, one of the polygonal portions being adapted to be fitted into the socket in the motor shaft, an abrading member longitudinally adjustably mounted upon the other polygonal portion of the shaft, a head rotatably mounted upon the cylindrical portion of the shaft and having an internal gear portion at its periphery, a pinion fixed upon the cylindrical portion of the shaft, a sleeve loosely surrounding the cylindrical portion of the shaft, a bracket extending from the sleeve, a pinion rotatably mounted upon the bracket and meshing with the internal gear and with the first mentioned pinion, means for holding the sleeve stationary with respect to the housing for the motor shaft, and means upon the head for supporting a tool in contact with the abrading member.

1,749,106. CALIBRATING MECHANISM FOR POSITIVE STOPS FOR VISIBLE PUMPS. WALTER HORTON MARSH, Aspinwall, Pa., assignor to Pennsylvania Pump Company, a Corporation of Pennsylvania. Filed Nov. 29, 1927. Serial No. 236,443. 7 Claims. (Cl. 221—100.)



1. The combination with a container adapted to hold a quantity of fluid, of a fluid delivery mechanism including a vertically movable outlet tube, operating means for raising and lowering said tube to different levels in said container so as to deliver different predetermined quantities of fluid, a movable detent associated with said operating means and independently radially adjustable stops co-operating with said detent for accurately gauging the movement of said positioning means so as to cause said tube to be set in position to deliver a predetermined quantity of fluid.

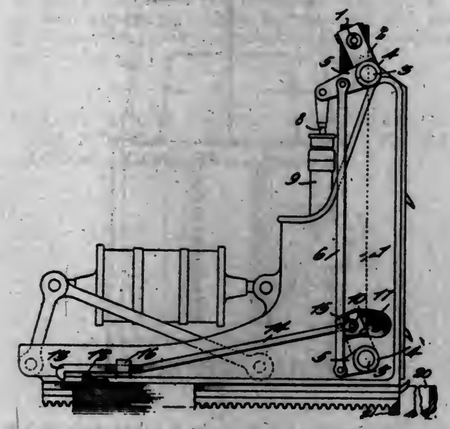
1,749,107. TRUCK. CHARLES M. MEDAIRY, Cleveland, Ohio. Filed June 14, 1928. Serial No. 285,325. 1 Claim. (Cl. 294—67.)



Means for the purpose set forth including a pair of angle bars having studs at their ends, load-sustaining rails having their ends seated freely on said angle bars, a frame, hangers secured to and diverging downwardly from the corners of said frame and provided at their lower ends with hooks engaging the studs on the angle bars, a head above the frame constructed to cooperatively engage a hoisting element, and suspension rods connecting the head with the corners of the frame, the frame consisting of bars rigidly secured together in rectangular relation.

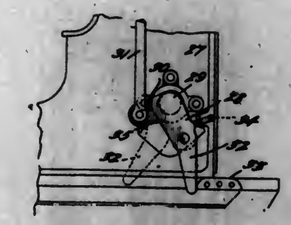
1,749,108. SAWMILL-DOGGING MEANS. GEORGE M. PELTON, Milwaukee, Wis., assignor to The Filer & Stowell Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 25, 1927. Serial No. 194,184. 8 Claims. (Cl. 143—125.)

1. In a saw mill carriage, a knee thereof provided with a slot and a mounting for projecting a dog at different distances beyond the face of the knee including a crank arm pivotally connected to the mounting, a shaft mounted in the knee and on which the crank is mounted, the pivot of the crank and mounting extending through the slot, a rod



mounted on the pivot, said rod having a hook, and a stop fixed with reference to the knee and with which the hook contacts to prevent the dog from reaching the saw line by limiting the movement of the dog toward the saw line.

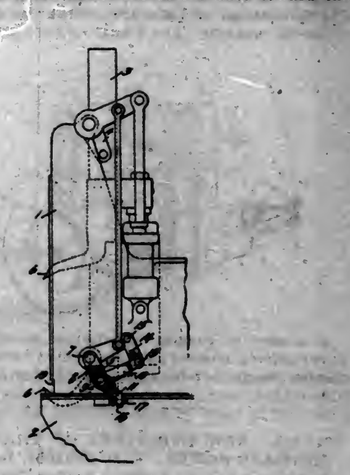
1,749,109. SAWMILL CARRIAGE. GEORGE M. PELTON, Milwaukee, Wis., assignor to The Filer & Stowell Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 19, 1929. Serial No. 348,322. 2 Claims. (Cl. 143—125.)



1. In a saw mill carriage, a knee, a dog mounting, cranks connecting the dog mounting and knee to permit movement of the mounting toward the face of the knee, dogs carried by the mounting, a stop on the carriage, and an arm forming a rigid extension of one of the cranks and adapted to depend in the path of the stop when the dogs are projected to their maximum extent.

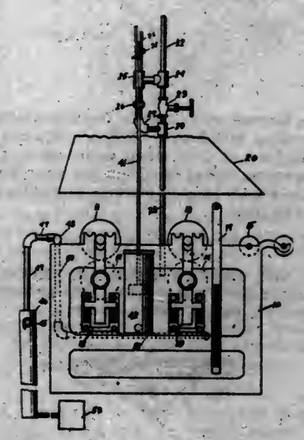
1,749,110. SAWMILL CARRIAGE. GEORGE M. PELTON, Milwaukee, Wis., assignor to The Filer & Stowell Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 12, 1929. Serial No. 406,666. 4 Claims. (Cl. 143—126.)

1. In a saw mill carriage, a knee, a dog mounting, cranks connecting the dog mounting and knee to permit movement of the mounting toward and from the face of the knee, dogs carried by the mounting, a stop on the carriage, an arm carried by one of the cranks to cooperate with said stop in the movement of the knee toward the



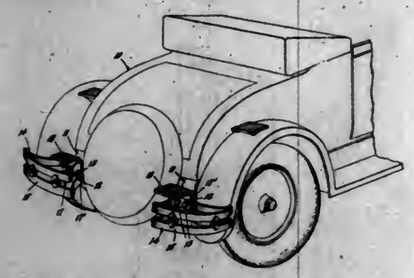
saw line, and means positively connecting said arm and knee to maintain successive positions of said arm substantially parallel with one another.

1,749,111. MEANS FOR REGULATING THE LEVEL OF FLUID IN SIZING VATS AND THE LIKE. JOHN J. QUEEN, Charlotte, N. C. Filed Apr. 25, 1927. Serial No. 186,546. 1 Claim. (Cl. 91—46.)



In a slasher, a sizing vat through which material is adapted to be passed to have sizing applied thereto, a source of sizing supply, a pipe connected to said source of sizing supply and extending to the vat, a pipe leading from one side of the vat at a point below the ordinary level of the sizing fluid, said pipe leading into a float chamber, a float mounted in said float chamber, a valve in the pipe leading from the source of sizing supply, connections between the float and the said valve whereby the valve is adapted to be opened when the level in the sizing vat sinks to a predetermined point, and to close the valve when the level in the sizing vat rises to another predetermined point.

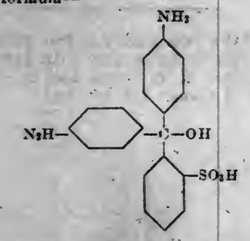
1,749,112. BUMPER. BERT RUSSELL, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 24, 1928. Serial No. 328,079. 11 Claims. (Cl. 293—55.)



5. A quarter bumper organization comprising: an impact-receiving element; an attachment element; and connecting means therefor comprising a step element.

1,749,113. NEW DYESTUFFS OF THE TRIPHENYLMETHANE SERIES. KARL SCHMIDT, Leverkusen, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 20, 1928, Serial No. 313,934, and in Germany Apr. 21, 1927. 2 Claims. (Cl. 260—68.)

1. Triphenylmethane dyestuffs having in their free form the probable formula—



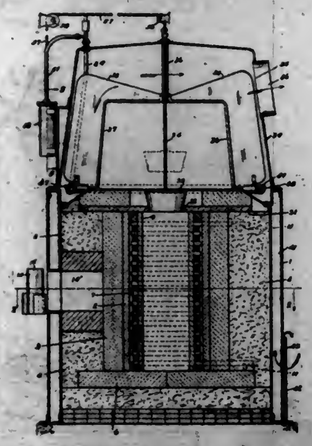
wherein the benzene nuclei may be further substituted said dyestuffs forming dark blue to black powders easily soluble in water (in form of their alkali metal salts) with violet to blue colorations, dyeing wool, silk and other fibres strong violet to blue shades of good fastness properties especially to alkalies and light.

1,749,114. TOY SEWING MACHINE. HERBERT ERICH TAUTZ, Milwaukee, Wis. Filed June 5, 1926. Serial No. 113,882. 1 Claim. (Cl. 112—215.)



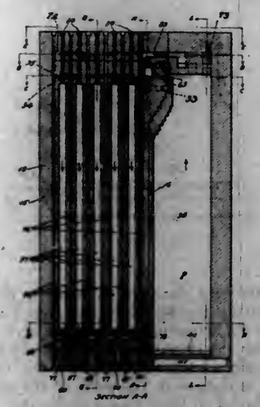
In a machine of the class described, the combination of a bed plate having mounted thereon a needle operating means including a rotatable shaft, a plate detachably connected to the under face of said bed plate and forming a support for a material feeder, said feeder including an elongated strip of metal having its intermediate portion slotted to provide spaced arms, said arms being bent upwardly for movement within slots provided in the bed plate, a depending arm formed integral with said feeder and eccentrically connected to said shaft, said feeder having one end supported for reciprocatory movement and the other for vertical movement in elements formed integral with said support plate, and said feeder adapted to reciprocate transversely of the bed plate to feed the material thereon upon the movement of the shaft.

1,749,115. ELECTRIC STORAGE HEATER. GUNNAR S. TUNE, Oakland, Calif. Filed June 7, 1927. Serial No. 197,061. 3 Claims. (Cl. 219—34.)



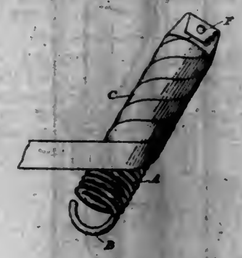
2. In an electric storage heater, a hollow body of heat absorbing and heat retentive material, electrical means for heating the same from the inside, a radiator having communication with the inside, a valve in said communication, controlled means for withdrawing heat from said radiator and means responsive to temperature changes in the radiator zone operating said valve.

1,749,116. REGENERATIVE HEATING STRUCTURE. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 5, 1923. Serial No. 666,735. 10 Claims. (Cl. 202—128.)



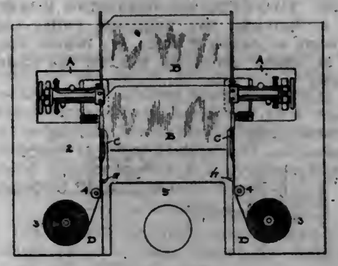
1. In a vertical retort battery, in combination: a plurality of high narrow retor chambers, each adapted to receive through its top the charge to be coked and adapted to discharge through its bottom the coked charge; heating walls contiguous to such retort chambers and respectively comprising combustion flues alternately operable in unison for upflow and downflow combustion; horisontal flues respectively connected with the tops of the combustion flues; vertical feed channels respectively connected with the bottoms of the combustion flues, said feed channels being located in the heating walls in alternation with the combustion flues; and groups of high narrow regenerators, the regenerators of one group serving the combustion flues for downflow combustion and being directly connected in pairs with the horizontal channels at the top of the combustion flues, and the regenerators of the other group serving the combustion flues for upflow combustion and being each connected at its top with some of the vertical feed channels, each group of regenerators when operating for inflow comprising both air and fuel gas regenerators.

1,749,117. SPRING DEVICE. JOHN WEICHSEL, New York, N. Y. Filed Mar. 10, 1926. Serial No. 93,743. 4 Claims. (Cl. 267—74.)



1. A spring device comprising a coil spring and a one piece extensible metallic housing entirely enclosing said spring having a normal length approximately equal to the normal length of the spring and being adapted to accommodate itself to variations in the effective length of the spring when it is stressed and relaxed.

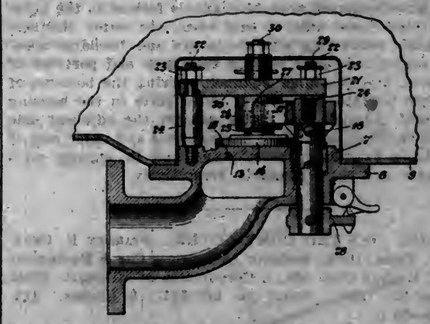
1,749,118. SEWING MACHINE. SAMUEL WECHSLER, Cleveland, Ohio, assignor of one-half to The Jaite Company, Jaite, Ohio, a Corporation of Ohio. Filed Jan. 17, 1927. Serial No. 161,560. 6 Claims. (Cl. 112—137.)



1. In a double-headed sewing machine of the character described, the combination of two sewing appliances arranged in spaced relation, a pair of correspondingly spaced folders, automatically operating means for varying the distance between said folders during the sewing-induced passage between said folders of articles of unequal dimension measured cross-wise of their direction of movement and means for operating said sewing appliances.

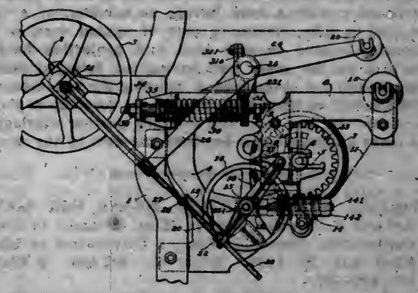
1,749,119. VALVE. WYLIE G. WILSON, Elizabeth, N. J., assignor to Everlasting Valve Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 25, 1928. Serial No. 256,687. 7 Claims. (Cl. 251—18.)

1. In a valve of the character disclosed, a valve body having a port with a valve seat surrounding said port and a supporting surface forming a lateral continuation of said seat, a valve disc for sliding movement over said valve seat and lateral continuation, an operating member for shifting the valve disc, a backing for said operating member and means for supporting said backing spaced from the valve body and with openings about the



sides of the valve between the base and backing to thereby enable the moving valve disc to discharge solid matter lodged between the base and backing clear of the valve structure.

1,749,120. LET-OFF FOR LOOMS. WILLIAM H. BAKER, Montreal, Quebec, Canada. Filed June 21, 1928. Serial No. 287,336. 8 Claims. (Cl. 139—110.)



7. In loom let-off mechanism comprising a warp-beam-actuating ratchet-wheel, an actuating pawl, a pawl-carrier, means for yieldingly urging said pawl-carrier and pawl reversely toward starting position, a yieldingly-actuated whip-roll, and a whip-roll arm, the combination with the said elements, of a longitudinally movable rod connected with said whip-roll arm and carrying a shoulder for engagement with the pawl-carrier to define the said starting position, and a reciprocating rod equipped for engaging said pawl-carrier in movement of the rod in one direction and thereby actuating the pawl-carrier from said starting position so as to produce unwinding rotation of the warp-beam, both rods guided by the pawl-carrier in their reciprocation movements.

1,749,121. ROTARY PUMP. LESTER P. BARLOW, Stamford, Conn. Filed Feb. 16, 1928. Serial No. 254,699. 11 Claims. (Cl. 103—136.)



1. A rotary pump, comprising a housing having a rotor chamber with a raceway therein, said housing hav-

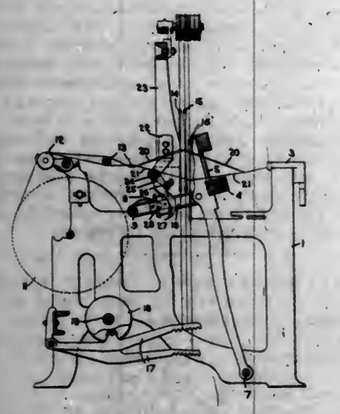
ing intake and discharge openings for said chamber, a rotor in said chamber and having radial slots opening through one end of the rotor, rollers working in said slots for displacing fluid through said chamber, inner and outer interconnected arcuate channels formed in the housing at the open ends of said slots, the outer channels constantly connecting with the intake and discharge openings, respectively, and serving the outer end portions of the slots, and the inner channels serving the bottoms of the slots beneath the rollers, and a plate in the housing over said channels and fitting against the adjacent side of said raceway, said plate having inner and outer sets of port holes extending therethrough and in register with the inner and outer channels, respectively.

1,749,122. BOLTED DOME COVER. STARLEY F. BEASLEY, Tulsa, Okla., assignor to Peerless Car & Equipment Co., Kansas City, Mo., a Corporation of Missouri. Filed June 22, 1928. Serial No. 287,591. 8 Claims. (Cl. 220—55.)



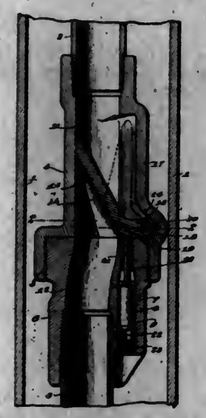
1. A bolted cover for pressure tanks comprising the combination with a tank having an opening, of a cover for said opening having a pair of spaced ears, a bolt pivotally secured to said tank and projecting between the ears of the cover and having an enlarged portion overlapping the cover, and a cam lug formed integrally with the bolt to effect unseating of the cover upon pivotal movement of said bolt, the enlarged portion overlapping the cover until the latter has been unseated by the cam.

1,749,123. SHED-DIVERTING MEANS FOR LOOMS. ARTHUR E. BENSON, Boston, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Aug. 28, 1928. Serial No. 302,486. 3 Claims. (Cl. 139—97.)



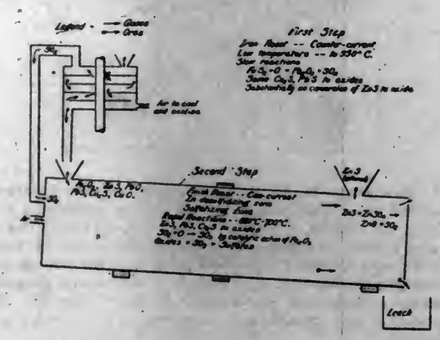
1. A loom comprising a lay, lay operating means comprising an actuating pitman, shed forming mechanism, a rock shaft extending transversely of the loom and having parallel radial supporting arms, a bar carried by said arms extending transversely of the central portion of the shed, an operating arm extending radially from the rock shaft and engaging and actuated by the pitman to rock the rock shaft and move the bar to engage and divert the adjacent shed layer thereby to place greater tension on the warps forming said shed layer than upon the remainder thus to produce "cover" in the woven fabric.

1,749,124. AUTOMATIC WELL-FLOWING DEVICE. ALEXANDER BOYNTON, San Antonio, Tex. Filed Dec. 1, 1927. Serial No. 237,051. 11 Claims. (Cl. 103—232.)



1. Apparatus of the character described comprising a body having a conduit for the passage of liquid and a communicating passageway for the introduction of lifting pressure fluid, and means respectively situated in the chamber and in the passageway each being independently and solely movable by the opposing effects of gravity and of liquid and pressure fluid impacts but mutually coactive for the control of the pressure fluid flow through said passageway.

1,749,125. TWO-STEP SULPHATIZING ROAST. FREDERIC A. BRINKER, San Francisco, Calif., assignor of one-fourth to Joseph P. Ruth, jr., Denver, Colo. Filed Oct. 21, 1926. Serial No. 143,126. 10 Claims. (Cl. 75—18.)

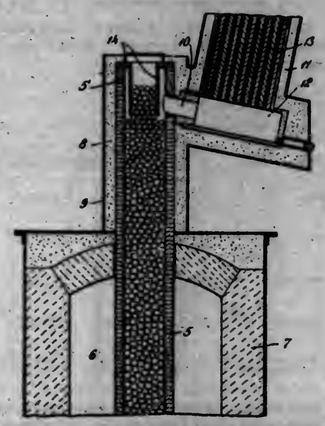


1. A process for sulphatizing ores containing iron and other sulfides comprising two steps in the first of which the minerals are moved in contact with the liberated gases at a temperature sufficient for conversion of the iron sulfide and at least portions of other sulfides but too low for the conversion of material amounts of zinc sulfide, and in the second of which the minerals from the first step move concurrently with the gases from the first step and are sulphatized.

1,749,126. REDUCING ZINCIFEROUS MATERIALS. EARL H. BUNCE and GEORGE T. MAHLER, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 4, 1928. Serial No. 244,401. 10 Claims. (Cl. 75—28.)

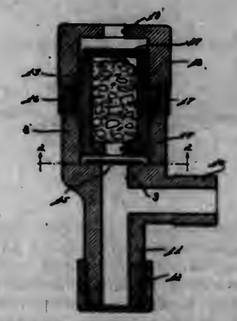
1. The improvement in the reduction of zinciferous material containing at least one contaminating metal which comprises conducting the gaseous product of the reducing operation through a hot eliminating medium maintained under reducing conditions at a temperature sufficiently low to effect substantial removal of said contaminating metal from said gaseous product, renewing said eliminating medium from time to time by fresh eliminating material added thereto at a temperature approximating that at which the medium is maintained, and subjecting the thus-treated gaseous product to appropriate treatment for the recovery of the zinc content thereof.

1,749,127. REDUCING ZINCIFEROUS MATERIALS CONTAINING LEAD. EARL H. BUNCE and GEORGE T. MAHLER, Palmerton, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 4, 1928. Serial No. 244,519. 15 Claims. (Cl. 75—28.)



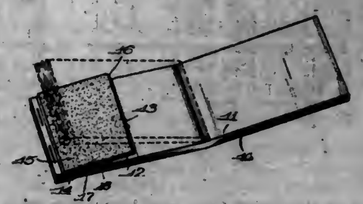
1. The improvement in the reduction of zinciferous material containing lead which comprises conducting the gaseous product of the reducing operation through a hot body of the reducing charge maintained at a regulated temperature sufficiently low to effect substantial removal of lead from said gaseous product, and subjecting the thus de-leaded gaseous product to appropriate treatment for the recovery of the zinc content thereof.

1,749,128. AIR-RELIEF DEVICE. AUGUST BUSS, Detroit, Mich. Filed Feb. 18, 1928. Serial No. 255,804. 4 Claims. (Cl. 137—122.)



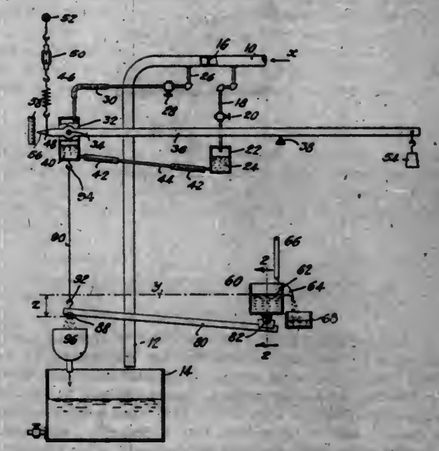
1. An air relief vent of the class described, comprising: an interiorly threaded member provided with an opening communicating with the system to be vented; a cup-shaped retaining member threaded into said member and provided with an opening in its base, said base being inwardly of said threaded member; a movable closure positioned between the opening in said base and the opening in said interiorly threaded member for opening and closing communication of said opening with said system; and absorbent material contained in said retainer.

1,749,129. CHECK BOOK. HARVEY CONOVER, Chicago, Ill. Filed Oct. 1, 1928. Serial No. 309,624. 1 Claim. (Cl. 281—3.)



A check book comprising a book of checks, including stubs, a blotter of the length of said checks including their stubs, means for binding said blotter and checks at one end of the book, said blotter being in length substantially equal to half the length of the check including its stub, said blotter comprising two layers of blotting paper and an interposed strip of flexible material adhered thereto, one layer of said blotting material being scored and the other being creased on a transverse line substantially coincident with the line of detachment of the checks and stubs.

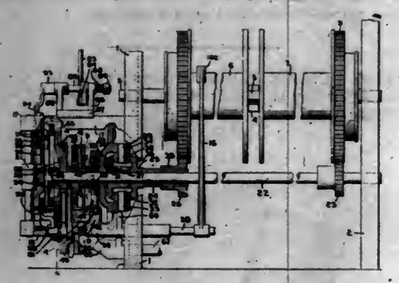
1,749,130. APPARATUS FOR PROPORTIONING LIQUIDS. PARLEY WESLEY CRAIG, Ensley, Ala. Filed Nov. 28, 1927. Serial No. 236,304. 4 Claims. (Cl. 210—81.)



1. Apparatus for automatically proportioning liquids including a duct for conveying one of the liquids, said duct having a restricted port, a member supported on an antifriction fulcrum, the movements of said member being responsive to pressure variations on opposite sides of said port, a liquid reservoir, an outlet conduit communicating with the lower portion of and movable relatively to said reservoir and means connecting said conduit and said member so that the elevation at which liquid is discharged from said outlet conduit is controlled by said member.

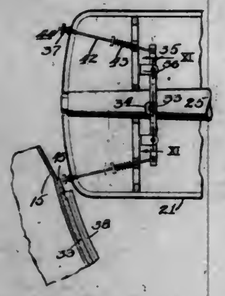
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1,749,131. LET-OFF MECHANISM FOR LOOMS. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 26, 1927. Serial No. 178,528. 11 Claims. (Cl. 139—108.)



1. Let-off mechanism for a loom having two warp beams comprising a positively rotated let-off member, a hand wheel rotatable with the let-off member, manually controlled means for connecting and disconnecting the let-off member and hand wheel, differential driving connections between the hand wheel and both beams whereby the tension on the warp on both beams is continuously equalized, and means to vary the amount of said rotation of the let-off member in proportion both to the warp tension and to the amount of yarn on the beams at each pick.

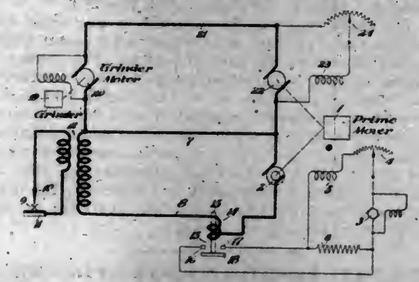
1,749,132. AIRPLANE. ALBIN J. ERICKSON, Chicago, Ill. Filed Oct. 18, 1928. Serial No. 313,223. 2 Claims. (Cl. 244—15.)



1. An airplane of the type described comprising a wing section and mounting means therefor comprising an axis about which said wing section is adapted to rotate, means for rotating said wing section, means adapted to alter the angle of incidence of a portion of said wing section whereby to convert said wing section into a propeller, and means for releasably engaging and locking said wing section to form a fixed lifting surface.

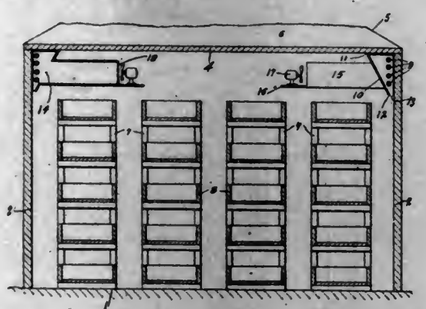
1,749,133. ARC WELDING SYSTEM. ROYAL E. FRICKEY, San Francisco, and ARION S. KALENBORN, Redwood City, Calif. Filed Nov. 29, 1924, Serial No. 752,870. Renewed Dec. 17, 1928. 3 Claims. (Cl. 219—8.)

1. In an arc welding system, a step down portable transformer having input and output terminals, a welding circuit associated with the output terminals of the transformer, a portable constant current generator, a portable conductor interconnecting the generator and the input terminals of the transformer, said generator having a high reactive armature whereby the potential on the



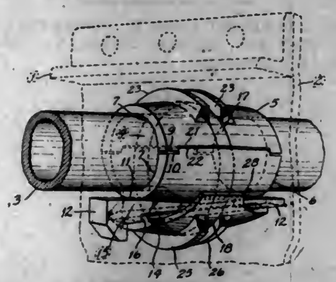
conductor may be maintained below a safe value during operation of the welding arc, and means associated with the generator for maintaining the potential below a dangerous value when the welding circuit is open.

1,749,134. MUSHROOM PIT. ROGER W. GRISWOLD, Ashtabula, Ohio. Filed Feb. 8, 1928. Serial No. 252,785. 10 Claims. (Cl. 62—102.)



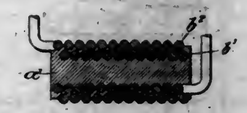
1. In combination, a series of fluid pipes, means substantially enclosing said pipes, said means being formed with a plurality of spaced inlet apertures and an outlet aperture, and separate means for causing a flow of air through said respective inlet apertures.

1,749,135. PIPE CLAMP. CHARLES HARTER, University City, Mo. Filed Apr. 19, 1928. Serial No. 271,145. 8 Claims. (Cl. 248—31.)



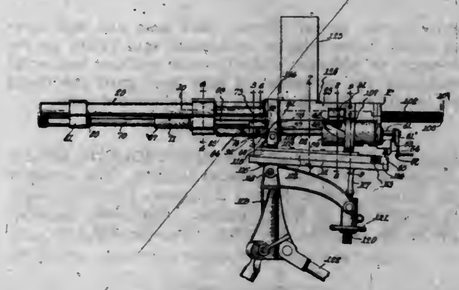
1. A pipe clamp comprising oppositely disposed clamping members adapted to clamp the pipe, a retaining member separated from one of said clamping members, and a wedge located between said retaining member and the last mentioned clamping member, said wedge being movable independently of said members to force the clamping members into engagement with the pipe.

1,749,136. INCANDESCENT ELECTRIC LAMP. JOHN ALLEN HEANY, New Haven, Conn., assignor to Sirian Lamp Company, Newark, N. J., a Corporation of Delaware. Filed July 3, 1916, Serial No. 107,867. Renewed Apr. 18, 1924. 4 Claims. (Cl. 176—16.)



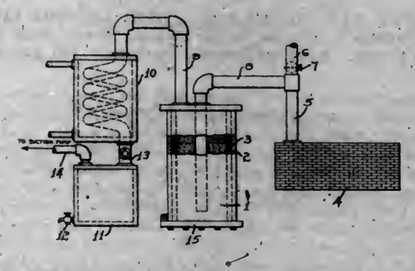
1. A glower for incandescent electric lamps comprising a resistor containing tungsten, a support of refractory compound in intimate contact with the resistor and capable of being heated to incandescence thereby, and a radiating surface associated with the glower composed of tungsten.

1,749,137. MACHINE GUN. ROBERT F. HUDSON, Richmond, Va., assignor, by mesne assignments, to Automatic Guns, Inc., Washington, D. C., a Corporation of Delaware. Filed Feb. 28, 1923, Serial No. 621,824. Renewed Feb. 28, 1927. 51 Claims. (Cl. 89—2.)



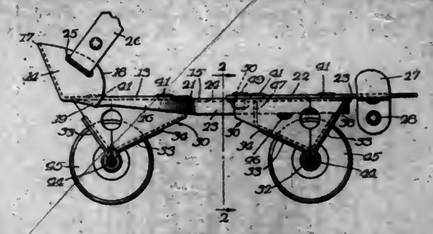
25. A machine gun, including a receiver, a barrel, a reciprocatory breech block mounted in the receiver, rotary means for reciprocating the breech block, and gas and spring actuated means and external means for operating the rotary means.

1,749,138. PROCESS OF COKING. HARRY G. JENNISON and CHARLES R. FABEN, Toledo, Ohio; said Faben assignor to said Jennison. Filed July 28, 1928. Serial No. 296,046. 8 Claims. (Cl. 202—19.)



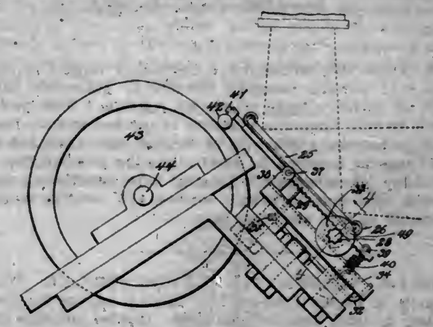
1. The process of coking which comprises destructively distilling a batch of a heavy hydrocarbon liquid to a hard low volatile coke by conducting hot gases produced by the combustion of carbonaceous fuel, under induced draft, into the batch of liquid and liberating the same near the bottom thereof, and allowing said gases to bubble up through said liquid.

1,749,139. ROLLER SKATE. PLINY N. JOSLIN, De Kalb, Ill. Filed Oct. 8, 1927. Serial No. 224,879. 18 Claims. (Cl. 208—175.)



1. In a roller skate, a heel plate having an integral shank girder, and a toe plate, the shank girder extending under the toe plate from the rear end of the latter, and said rear end being located within the length of the girder.

1,749,140. MOTION-PICTURE-PROJECTING MACHINE. THOMAS A. KILLMAN, Nashville, Tenn. Filed Dec. 21, 1925. Serial No. 76,607. 6 Claims. (Cl. 88—16.8.)



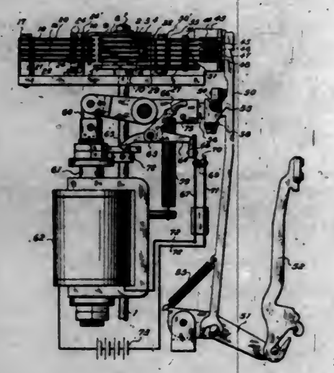
3. In a motion picture projecting machine, an optical rectifier comprising a mirror, a frame mounted on the mirror, means for oscillating the mirror and frame, a fulcrum engaging the frame, a base carrying the fulcrum, and means on the fulcrum, and movable in relation to the frame to shift the fulcrum in relation to said base.

1,749,141. STEAM CONDENSER. JOHN F. KIRGAN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 21, 1927. Serial No. 193,151. 3 Claims. (Cl. 257—43.)



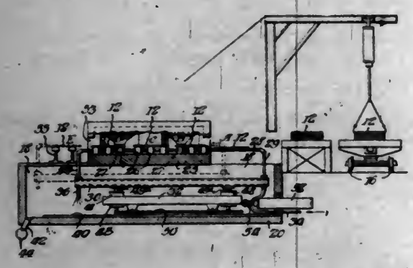
1. A surface condenser comprising a casing having a steam inlet and an outlet for air and non-condensable gases, an inlet water box for said casing and an outlet water box for said casing, and rows of tubes connecting said boxes arranged in substantially parallel planes perpendicular to the path of steam flow, said tubes being arranged in parallel vertical rows at the end of the condenser adjacent the inlet water box, and alternate tubes in a vertical direction at the other end of the condenser being displaced sidewise with respect to the remaining tubes to provide a staggered arrangement.

1,749,142. SELECTIVE SYSTEM AND APPARATUS. EDWARD E. KLEINSCHMIDT, Long Island City, N. Y., assignor, by mesne assignments, to Teletype Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 18, 1924. Serial No. 726,838. 55 Claims. (Cl. 178—27.)



1. A selecting mechanism comprising a magnet, a plurality of selector members movable in succession said selector members being selectively restrained from movement by said magnet, a plurality of notched selector bars each embodying a plurality of notches and controlled by said selector members to selectively align said notches, a plurality of selectable actuating bars selectively controlled by alignment of said notches, and printing means actuated by said actuating bars.

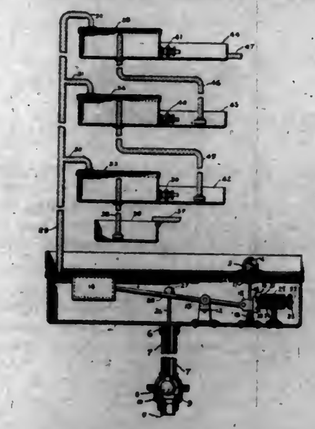
1,749,143. SHEET-METAL HEATING FURNACE. WILLIAM A. LACKE, Chicago, Ill. Original application filed May 2, 1921, Serial No. 466,184. Divided and this application filed Nov. 29, 1922. Serial No. 603,939. 17 Claims. (Cl. 214—18.)



1. In mechanism of the class described, a plate heating furnace, internally provided with a multiplicity of supports, a plurality of said supports so sustaining one plate of a plurality of plates side by side through the furnace that gas may pass above and below the plate, automatic means manipulatable from outside the furnace for carrying a plate step by step into the furnace, on to a plurality of said support, and finally out of the furnace, for the purposes set forth.

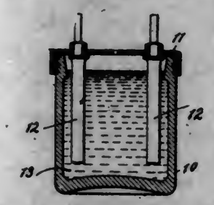
1,749,144. AUTOMATICALLY-OPERATING MECHANISM FOR ELEVATING LIQUIDS. REA D. LENTZ, Los Angeles, Calif. Filed Oct. 27, 1926. Serial No. 144,641. 6 Claims. (Cl. 103—236.)

1. In a device of the class described the combination of a closed receptacle provided with an inlet and a valve adapted to control said inlet, a discharge outlet for said receptacle, a controlling valve for said outlet, means for supplying a liquid to said receptacle through said inlet, a float in said receptacle adapted to be actuated by said



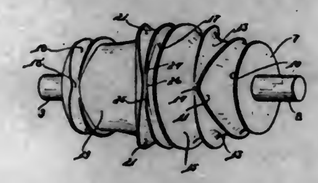
liquid therein, means between said float and said inlet and outlet valves adapted to actuate said valves by the movement of said float and adjustable resilient means for restraining the movement of said float until the liquid level in said receptacle reaches a predetermined point.

1,749,145. ELECTRODE FOR ELECTROLYTIC CELLS. ERNEST F. LUNDBERG, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Jan. 31, 1927. Serial No. 164,663. 5 Claims. (Cl. 175—318.)



2. In an electrolytic cell, a suitable electrolyte, a film-forming electrode, and a ferrous electrode containing more than ten per cent by weight of chromium.

1,749,146. GUIDE FOR CABLES AND THE LIKE. EDMUND R. MAISON, Mount Clemens, Mich. Filed Jan. 14, 1929. Serial No. 332,271. 8 Claims. (Cl. 64—17.)



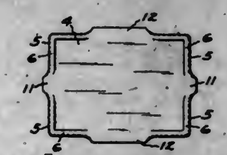
8. A roller of the class described comprising: a rotatable body having a central groove formed on its periphery lying on a plane at right angles to the axis of said body and provided on its periphery at opposite sides of said central groove with a plurality of peripheral grooves, each provided with a restricted area portion and with a widened area portion, each groove communicating at its restricted area portion with the next inwardly positioned groove.

1,749,147. PROCESS OF PISTON-RING CASTING. THURLOW E. MCFALL, Sparta, Mich. Filed Mar. 5, 1929. Serial No. 344,373. 3 Claims. (Cl. 29—156.62.)



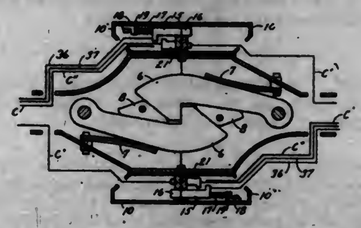
1. The method of providing ring castings for piston rings having a face of approximately one eighth inch, which consists in forming a pattern having a face of approximately one-fourth of an inch plus allowance for machining and shrinkage, casting from said pattern, and dividing the casting produced into two equal parts by cutting the casting circumferentially midway between its opposite flat sides.

1,749,148. PROCESS OF FLANGING SHEET METAL. JAMES A. MCGREGOR, Cleveland, Ohio. Original applications filed Oct. 8, 1926, Serial No. 140,362, and Mar. 7, 1928, Serial No. 259,665. Divided and this application filed Mar. 7, 1928. Serial No. 259,664. 11 Claims. (Cl. 113—51.)



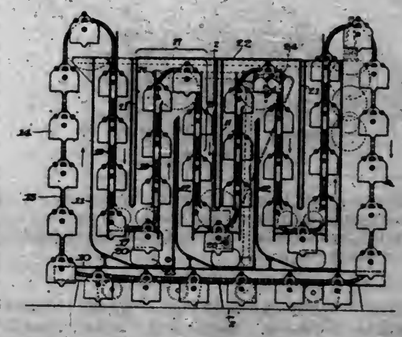
1. The method of forming a sheet metal article having a completely peripheral depending flange, which comprises forming a depending corner flange in a piece of sheet metal, forming additional depending corner flanges, and forming depending flanges intermediate said corner flanges to thereby form a completely peripheral depending flange.

1,749,149. ELECTRIC COUPLER SYSTEM. GEORGE A. MEAD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 30, 1925. Serial No. 47,078. 2 Claims. (Cl. 177—311.)



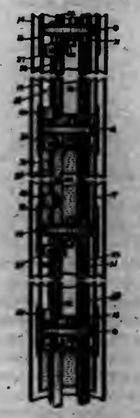
1. The combination in a car and electric coupler secured to the end of a car of a head, a coupling hook arranged to connect with a cooperating device upon impact, exposed electrical contacts upon the coupling face of said head and insulated therefrom, conductors leading from the contacts, a current supply circuit to said car from a source of power, a movable contact upon the coupler head cooperating with a fixed contact forming a circuit controller and arranged to open an auxiliary circuit connected thereto when the head is coupled and to close the auxiliary circuit when the head is uncoupled, a manually operated switch to open and close and control the circuits to the contacts and connect some of the conductors and the auxiliary circuit to the current supply circuit, an electrically controlled signal connected to the auxiliary circuit and in series circuit with the circuit controller and the manually operated switch to indicate when the switch is closed and the coupler in an uncoupled relation to a cooperating coupler.

1,749,150. PASTEURIZER. GEORGE J. MEYER, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 5, 1928. Serial No. 622,976. 6 Claims. (Cl. 126—272.)



1. A pasteuriser comprising a tank having a bottle conveyer passing therethrough provided with suspended bottle carriers, stationary guides within the tank, and guide means carried by the bottle carriers for engagement with said guides to prevent the bottle carriers from tilting during their travel through the tank.

1,749,151. FLUID-ELEVATING APPARATUS. LESTER H. MILES, Los Angeles, Calif. Filed June 22, 1927. Serial No. 200,621. 5 Claims. (Cl. 103—239.)

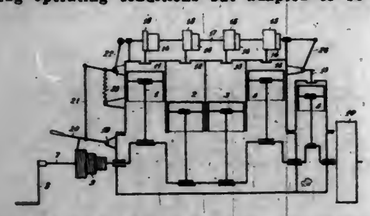


1. An oil well lift including a plurality of stages connected together, each of said stages comprising a hollow member, a transverse partition and a conductor member communicating with the space above and below said partition, a valve communicating with the interior of said stage, float means in said stage, said float means being adapted to actuate said valve to allow gas to enter said stage when the fluid therein rises to a predetermined point and actuate said valve to allow the gas in said stage to escape when the fluid in the stage falls below a predetermined point.

1,749,152. STARTING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. FRIEDRICH MÜLLER, Vienna, Austria. Original application filed Mar. 25, 1921, Serial No. 455,575, now Patent No. 1,570,914, and in Austria May 4, 1918. Divided and this application filed July 15, 1925. Serial No. 43,855. 5 Claims. (Cl. 123—182.)

1. In an internal combustion engine, a number of working cylinders, and means for automatically bringing the

working cylinders to their normal compression conditions in a consecutive manner during engine starting comprising air escape means for the cylinders normally closed during operating conditions but adapted to be open to

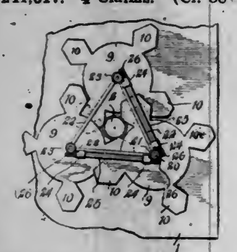


initiate the engine starting operation, mechanism for automatically consecutively closing the air escape means for the various cylinders, and engine driven means for operating said mechanism.

1,749,153. SELF-PRESERVING MILK PRODUCT. THOMAS O'CONNOR, Minneapolis, Minn.; Merchants Trust Company executors of said Thomas O'Connor, deceased. Filed Feb. 8, 1926. Serial No. 86,927. 10 Claims. (Cl. 99—11.)

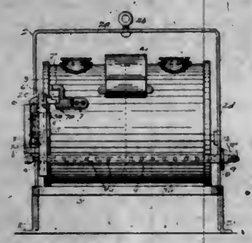
1. A self preserving, condensed milk product containing not less than twenty-five per cent of water, between seven and fourteen per cent of sodium chloride and at least twenty-eight per cent of milk solids, together with a quantity of sugar.

1,749,154. SHUTTER FOR MOTION-PICTURE PROJECTORS AND CAMERAS. ARCHIBALD M. O'HAGEN and GEORGE C. BERGER, Fosston, Minn. Filed Dec. 21, 1927. Serial No. 241,617. 4 Claims. (Cl. 88—19.3.)



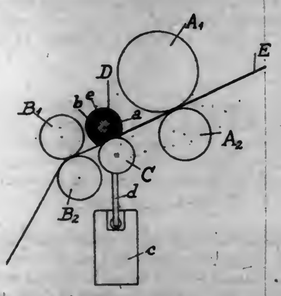
3. A shutter mechanism for motion picture apparatus comprising three shutters each having a blade arranged concentrically and symmetrically about the lens of the motion picture apparatus, the blade of each shutter having its side edges diverging outwardly to a point which travels across the center of the lens and then converging outwardly to the end of the blade, forming an obtuse angle.

1,749,155. AUTOMATIC FIRE EXTINGUISHER. HOWARD W. PARTLOW, Utica, N. Y. Filed Dec. 5, 1927. Serial No. 237,888. 2 Claims. (Cl. 169—27.)



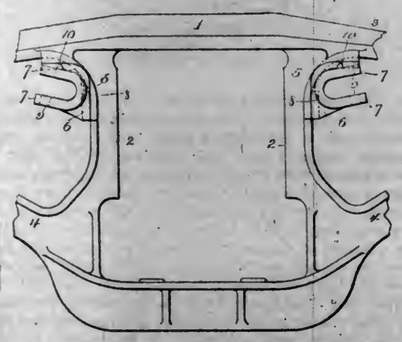
1. A latch release mechanism for a fire extinguisher having a tumbler rotatably mounted in a frame and provided with a latch on its periphery, including a vertical member, means connected to said member and formed for connection to the frame to rigidly support the member adjacent to an end of the frame and in spaced relation to the periphery of the tumbler, a horizontal lever pivoted between its ends to said vertical member and having its inner end lapping the periphery of the tumbler and engageable with the latch of the tumbler, a vertical lever having its upper end underlying and engageable with the under side of the outer end of the horizontal lever, means to pivotally mount said vertical lever, on said vertical member, temperature responsive means connected at one end to the lower end of the vertical lever to actuate the same, and means to support the other end of said temperature responsive means from said frame of the tumbler.

1,749,156. DRAWING DEVICE FOR SPINNING MULES, SPINNING FRAMES, AND PREPARATORY MACHINES. JULES PELIMLIN, Mulhouse, France. Filed Feb. 15, 1927, Serial No. 168,480, and in France Feb. 17, 1926. 8 Claims. (Cl. 19—142.)



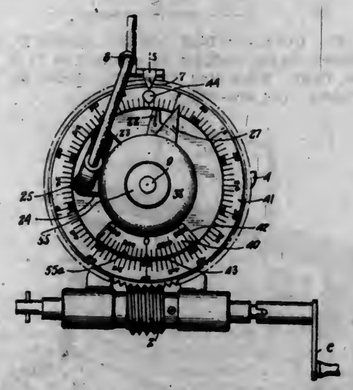
1. An upper intermediate roller for drawing devices for machines of the class described comprising a cylindrical core portion and a flexible resilient cover, said cover being characterized by its considerable thickness, great resiliency and flexibility, so that by pressing on the bottom roller it embraces the latter upon a comparatively large part of its peripheral surface, the cylindrical core portion being provided on each side of the cover with a step-up part of such a diameter as to limit the pressure of the top roller upon the sliver or roving within a predetermined maximum, independently of the amount of pressure.

1,749,157. BRAKE-HANGER BRACKET. WILLIAM G. POWELL, Altoona, Pa. Filed May 16, 1928. Serial No. 278,269. 7 Claims. (Cl. 105—205.)



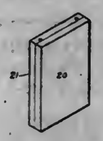
2. In a car truck construction, a side frame having an integral brake hanger bracket projecting laterally therefrom, said bracket consisting of an arcuate basal web and upper and lower inclined jaws at the end of the web.

1,749,158. AUTOMATIC COUNTER AND STOP DEVICE. PAUL REISS, Brooklyn, N. Y., assignor to Viking Tool and Machine Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 24, 1926. Serial No. 150,585. 10 Claims. (Cl. 235—132.)



2. In a counting device, a frame, a pair of disks rotatably mounted on the frame and having teeth formed on their peripheral edges, one of the disks being provided with a greater number of teeth than the other of said disks, means common to said disks for driving the latter independently of each other, a slidable ring mounted on one of the disks and having a depression, a notched pin carried by the other of said disks and formed to be received in said depression, a circuit closer, and an adjustable dog mounted on the frame and having a portion disposed in the path of said pin whereby to actuate the circuit closer.

1,749,159. HEAT, COLD, AND SOUND INSULATING MATERIAL. WILLIAM R. RESPESS, New York, N. Y., assignor to Leonard C. L. Smith, Long Island City, N. Y. Filed Nov. 26, 1927. Serial No. 235,864. 10 Claims. (Cl. 154—44.)



7. The combination of a plurality of sheets of heat, cold and sound insulating material forming a block, a water and air proof coating for each sheet functioning also as a binder between the adjacent faces of the sheets, a channel between each pair of sheets and formed therein, connecting members for the channels to form a continuous conduit, an inlet valve for one end of the conduit and an outlet valve for its outer end, an additional sheet of said material connected to said block, a channel formed with the latter sheet, independent of said conduit, an inlet valve for one end of the latter channel and an outlet valve for the other end of the latter channel.

1,749,160. DUPLICATING MACHINE. GEORGE SABIK, Western Springs, Ill., assignor to U. S. Duplicator Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 9, 1928. Serial No. 245,346. 19 Claims. (Cl. 101—133.)

1. In a duplicating machine, the combination of a frame adapted to hold a duplicating surface, a paper stop near one end of the position to be occupied by said duplicating surface in position to arrest a sheet of paper fed toward said surface, and a movable impression roller mounted to be moved from a position beneath the stopped



end of said paper to contact said paper and swing the same over said stop and onto said duplicating surface, substantially as described.

1,749,161. FILLING APPARATUS. MILTON SCHNAIER, New York, N. Y. Filed July 11, 1925. Serial No. 42,877. 18 Claims. (Cl. 226—108.)



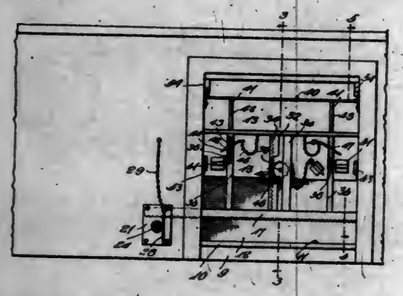
1. An apparatus of the class described including a reservoir, a plurality of measuring cylinders having their upper ends in communication with the reservoir, inlet valves of diameters substantially the same as the diameters of the cylinders and above the latter, outlet valves at the lower ends of the cylinders and self-draining ports opening into the upper ends of the measuring cylinders substantially directly below said inlet valves, whereby liquid may flow freely into the measuring cylinders when the outlet valves are closed and the inlet valves opened and may flow freely out of them easuring cylinders when the inlet valves are closed and the outlet valves opened.

1,749,162. THREAD PROTECTOR. HENRY D. SCOTT, Wheeling, W. Va. Filed Mar. 28, 1929. Serial No. 350,652. 8 Claims. (Cl. 137—91.)



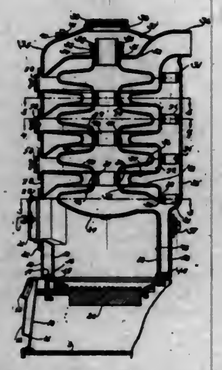
1. A thread protector for internally threaded pipe couplings and the like, comprising a disk having a plurality of tongues bent downwardly from the plane thereof and provided with threads on their outer faces for engaging the internal threads of a pipe or coupling, the disk having an annular marginal portion for protecting the end of the pipe or coupling.

1,749,163. GRAIN-CAR DOOR. JURGEN SIEMSEN, Custer, Mont., assignor of one-half to Anna Berry, Billings, Mont. Filed Mar. 8, 1928, Serial No. 260,095. Renewed May 29, 1929. 5 Claims. (Cl. 20—31.)



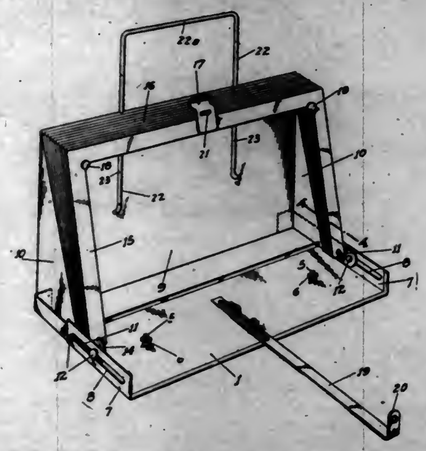
1. A door comprising a lower slidable section of rectangular form and provided at its vertical edges with laterally projecting flanges, an upper horizontal bar extending between and secured to the upper ends of said flanges, said bar being outwardly spaced from said lower door section, a lower horizontal bar extending between and secured to said flanges, vertical bars extending between and secured to said upper and lower horizontal bars, said vertical bars being outwardly spaced from said lower door section, and an upper rectangular door section slidably received between said lower section and said upper and vertical bars, the vertical edges of said upper section being slidably engaged with said flanges.

1,749,164. FURNACE. JOHN SPOUSTA, River Rouge, Mich. Filed Feb. 11, 1927. Serial No. 167,409. 1 Claim. (Cl. 122—218.)



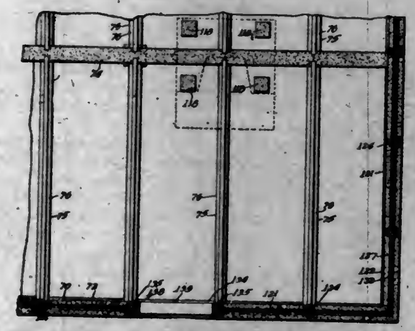
A furnace of the class described comprising a plurality of duplicate double walled sections, with the spaces between said walls in intercommunication, the inner wall of each of said sections being bulged inwardly away from the outer wall, a plurality of centrally disposed, disk-like hollow intercommunicating sections enclosed by said double walled sections, the edges of adjacent disc like sections extending in overlapping, spaced relation to said bulged walls, the space between said bulged walls and disk-like sections forming sinuous passages for the escape of gas, a supporting section comprising spaced walls forming continuations of the walls of the double walled sections, the space between said walls being in communication with the space between said double walled sections, a centrally disposed hollow globe-shaped member connected to said supporting section and disk-like members, and establishing communication between the enclosed spaces of said sections and members, and providing support for said disk-like members, a hollow top section communicating with said double walled sections and said disk-like sections and having an exit flue in communication with said sinuous passages, said supporting section inclosing a combustion chamber space.

1,749,165. COLLAPSIBLE COVER. JORDAN D. STANTON, Berkeley, Calif., assignor of one-half to I. G. Krieger, Lodi, Calif. Filed Mar. 26, 1927. Serial No. 178,635. 3 Claims. (Cl. 45—68.1.)



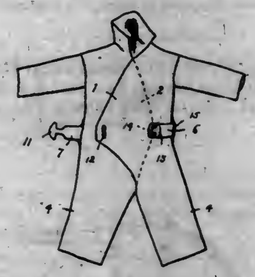
1. In a collapsible cover structure, a base plate, a cover structure mounted on the plate for horizontal movement to and from the front of the plate, said structure including a front bow arranged to be lowered to or raised from the plate, a slotted element projecting outwardly from the bow, a bar on the plate, a tongue on the outer end of the bar to engage the slotted element when the front bow is lowered, and means connecting the bar to the plate in a manner to permit of adjustment of the bar on the plate to the same extent and in the same direction as the movement of the cover structure relative to the plate.

1,749,166. BUILDING CONSTRUCTION. FRANK S. SWAN, Glen Ellyn, Ill. Filed June 14, 1926. Serial No. 116,053. 9 Claims. (Cl. 72—1.)



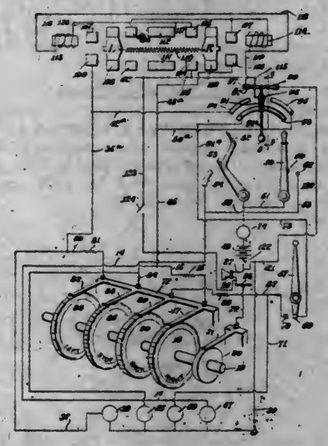
1. A wall for a building comprising a foundation built of interlocking members of concrete formed independently of each other, concrete posts formed independently of the foundation and supported thereby, slabs of concrete disposed intermediate the posts and formed independently thereof, said posts and slabs being arranged to form the outer walls of the building.

1,749,167. GARMENT. FRANCES E. SWANSTROM, Duluth, Minn. Filed Aug. 30, 1928. Serial No. 302,924. 1 Claim. (Cl. 2—79.)



The combination with a garment of the class described having body and leg portions, of integral overlapping flaps comprising the entire front of the body portion, a seat flap overlapping the entire lower portion of the back of the body portion, and fastening means attached to the upper opposite corners of the seat flap, one for cooperative engagement with one front flap through the garment, and the other for cooperative engagement with the other front flap externally of the garment.

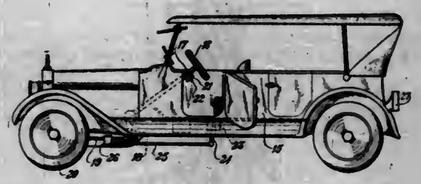
1,749,168. VEHICLE SIGNAL. EVERETT W. SWARTWOUT, White Plains, N. Y. Filed Jan. 11, 1921. Serial No. 436,455. 16 Claims. (Cl. 177—337.)



5. In a vehicle having a steering device, the combination with a plurality of indicating means; of means operative automatically upon movement of the steering device for operating said indicating means corresponding to the direction of movement of the steering device, said steering device automatically operated means comprising contact means controlled by the steering device, a set of contacts engaged by a contact arm supported on said steering device for the neutral position of said contact means and sets of contacts respectively for the "left" and "right" positions of said contact means; manually operable, electrically held means comprising separate manually operated "left" and "right" members for correspondingly setting said indicating means in advance of the operation of the steering device, said manually operable, electrically held means comprising electromagnetic means for holding said manually operable means in set position prior to the operation of the steering device; and electrical circuit means connecting said set of contacts for the neutral position of said contact means with the said manually operable, electrically held means when the steering device is in neutral position.

13. The combination with a vehicle provided with a steering mechanism of a plurality of electrical circuits, a source of power, manually operable bridge members for selectively controlling said circuits, an electro-magnet for each bridge member, contacts for each of said bridge members, a connection between said bridge members, contacts so arranged with relation to said bridge members that one bridge member contacts to complete the circuit for energising the electro-magnet for holding the other bridge member, means for restoring said manually operable bridge members to neutral position upon release from its electromagnet and switch means controlled by turning said steering mechanism in the direction indicated whereby said manually operable bridge member is released and said signal is maintained until after said turn has been made and said steering wheel returned to straight ahead position.

1,749,169. COURSE-SIGNALING SYSTEM. EVERETT W. SWARTWOUT, White Plains, N. Y. Filed Aug. 31, 1922. Serial No. 585,355. 10 Claims. (Cl. 177—337.)

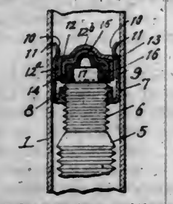


1. In a vehicle having a steering device, the combination with a plurality of indicating means; of means operative automatically upon movement of the steering device for operating said indicating means corresponding to the direction of movement of the steering device; said steering device automatically operated means comprising contact means controlled by said steering device, a set of contacts engaged by a contact arm supported on said steering device for the neutral position of said contact means and sets of contacts respectively for the "left" and "right" positions of said contact means, manually operable, electrically held means comprising "left" and "right" members for setting said indicating means in advance of the operation of said steering device, said manually operable, electrically held means further comprising common manually operated means for setting said "left" and "right" members respectively and further comprising electro-magnetic means for holding said "left" and "right" members in set position prior to the operation of said steering device, and electrical circuit means for energizing said electromagnetic means when said contact means is in neutral position and for de-energizing said electromagnetic means when said contact means is in either its "left" or its "right" position.

1,749,170. QUICK-DETACHABLE DUSTCAP. EWALD F. TOBOLD, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,479. 8 Claims. (Cl. 152—12.)

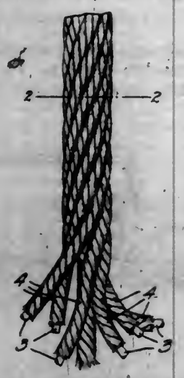
1. A dust cap construction comprising a shell which is closed at one end and open at the other end, an attaching member within said shell having a body portion which is adapted to be mounted upon the end of a valve stem, a

plurality of upturned resilient fingers carried by the body portion, a cup-shaped member encircled by the said resilient fingers, a sealing member mounted within said cup-



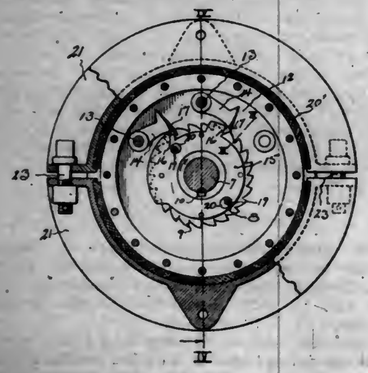
shaped member and free to turn with respect thereto, said fingers having portions adapted to be engaged by the said cup-shaped member to move them outward when the attaching member is mounted upon the end of a valve stem.

1,749,171. ROPE STRUCTURE. HAROLD M. WALL and WALDO REINER, Beverly, N. J. Filed Jan. 26, 1924. Serial No. 688,703. 1 Claim. (Cl. 117—59.)



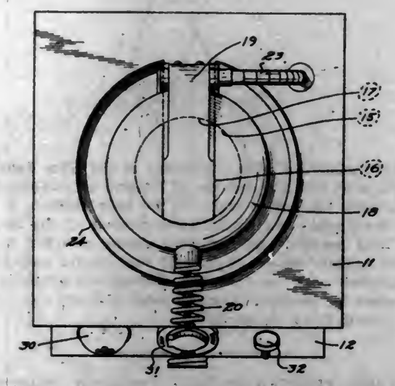
A composite rope consisting of a core member twisted from a plurality of fibrous strands in one direction and a plurality of wires laid around the core in the opposite direction, each of said wires being incased in a plurality of casing strands spirally wound on the respective wire in the same direction as the core winding, said casing strands being impregnated with a lubricant, said lubricant containing a copper salt.

1,749,172. AUTOMATIC STOP. DIXON E. WASHINGTON, Kansas City, Mo. Filed Nov. 30, 1927. Serial No. 236,871. 3 Claims. (Cl. 188—81.)



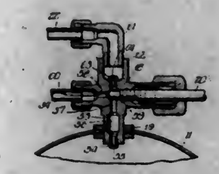
1. In combination with a rotatable shaft, a stop therefor comprising a ratchet, a housing for the ratchet, a plurality of dogs, a cam adjacent said ratchet having faces to hold said dogs out of engagement with the ratchet and means holding said stop in the operative position adapted to permit gradual reversal of the housing and shaft when the dogs move to the ratchet engaging position.

1,749,173. ELECTRICALLY-HEATED WAFFLE IRON. GEORGE FREDERICK WELLS, San Francisco, Calif. Filed Apr. 4, 1927. Serial No. 180,883. 6 Claims. (Cl. 53—10.)



1. In an electrical waffle iron, a stationary waffle mold, a hinged waffle mold, means for electrically heating both molds, a pedestal upon which the stationary mold is supported, said pedestal being narrow and having straight vertical sides, and a removable tray having a slot in which the pedestal can be accommodated when the tray is in place beneath the stationary mold.

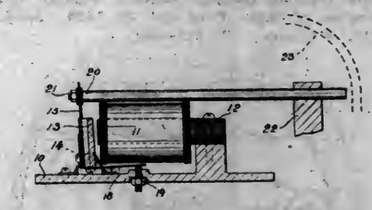
1,749,174. VAPOR-STOVE CONSTRUCTION. ANTON J. ZRAGEK, Wisconsin Rapids, Wis., assignor to Prentiss-Wabers Products Co., Wisconsin Rapids, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1929. Serial No. 350,532. 4 Claims. (Cl. 158—81.)



1. In a vapor stove, a pressure fuel tank, a mixing valve connected to the air under pressure in the top of the tank, a connection between the mixing valve and the liquid fuel in the tank, a generator, a connection between the mixing valve and the generator, and a separate valve controlled connection between the generator and liquid fuel in the tank.

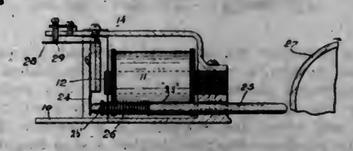
1,749,175. ELECTRIC SIGNAL BELL. FRANK ALBRIGHT, Bronx, and WILLIAM ELSASSER, Brooklyn, N. Y., assignors to Stanley & Patterson, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 14, 1926. Serial No. 154,844. 2 Claims. (Cl. 177—7.)

1. In combination, an electromagnet, an armature, a striker, a translating device cooperating with said striker, means for resiliently biasing the armature away from the magnet, and means for resiliently connecting said striker with said armature and located on the face of said armature opposite to that adjacent to said magnet, the resiliency



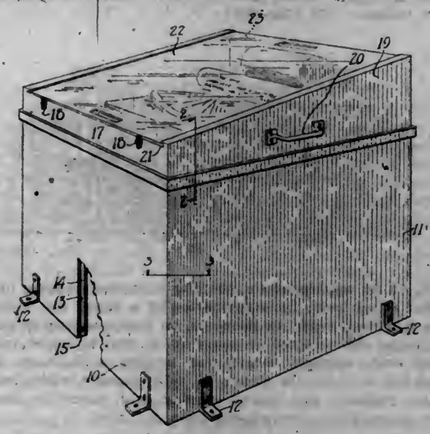
of said connecting means being greater when said armature is moving toward said magnet than when moving away from said magnet.

1,749,176. ELECTRIC SIGNAL BELL. FRANK ALBRIGHT, Bronx, and WILLIAM ELSASSER, Brooklyn, N. Y., assignors to Stanley & Patterson, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 14, 1926. Serial No. 154,845. 3 Claims. (Cl. 177—7.)



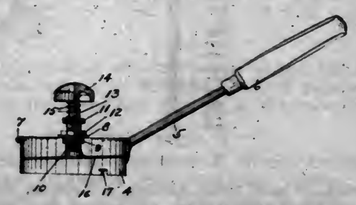
1. In combination, an electromagnet, an armature actuated thereby, a plunger, resilient means on said armature contacting with said plunger for moving the same in one direction, resilient means on said armature for regulating its stroke, and resilient means on said plunger for cushioning the stroke of said contacting means and for moving said plunger in the opposite direction.

1,749,177. SILENCING COVER FOR MACHINES. ROY N. BAXTER, Portland, and BERT C. RUB, Tigard, Oreg. Filed Jan. 18, 1927. Serial No. 161,933. 1 Claim. (Cl. 45—68.1.)



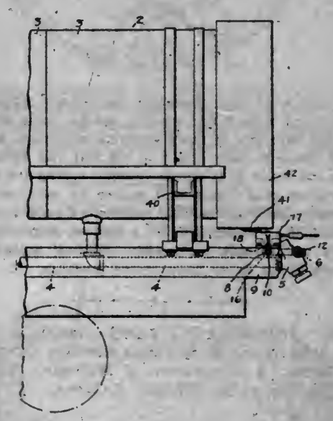
A silencing cover consisting of a box adapted to rest upon the floor having its upper end open and having each side wall formed of spaced wall elements having their adjacent sides felt covered; a removable section adapted to be mounted upon said box having an over-lapping connection with said lower box member, the sides of said section sloping toward the front and having grooves on their inner upper edges; a glass cover for said section slidably placed in said groove and resting on the front and back of said section; and having felt pads placed between the contacting sides of said glass and its supporting members.

1,749,178. DEVICE FOR FORMING HAMBURGER PATS AND THE LIKE. ALMER A. BERG, Minneapolis, Minn. Filed June 3, 1929. Serial No. 367,919. 2 Claims. (Cl. 107—48.)



1. A device of the character described comprising a ringed shell member, a presser plate within the member, a rod projecting from the plate, a knob on the rod, a bearing member for the rod carried by the shell member, and a spring for yieldably raising the rod, said bearing member serving as a stop for the plate and being vertically adjustable whereby the chamber formed by the shell member and plate may be regulated as to size.

1,749,179. SAFETY DEVICE FOR TANKS. AUGUSTINE DAVIS, Jr., Cincinnati, Ohio. Filed Nov. 4, 1927. Serial No. 231,117. 8 Claims. (Cl. 175—264.)

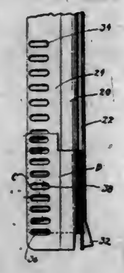


1. In connection with a tank having an outlet conduit leading from the lower portion of the tank, the combination with a valve in said conduit and external to the tank, a lock for preventing opening of said valve, and means adapted to be applied to release said lock and by such application to electrically ground the tank prior to the discharge of liquid from said outlet conduit.

1,749,180. ROLL-SCREEN LATCH. HARRY DIXSON, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa. Filed July 29, 1929. Serial No. 381,730. 5 Claims. (Cl. 156—89.)

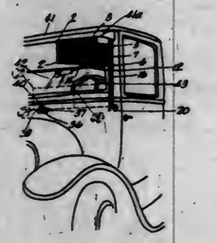
1. In combination with a guide track having a flat attaching flange, a latch for a rolling window screen comprising a resilient member slidably mounted upon said track in circumscribing relation thereto, the attaching flange of said track having a plurality of spaced openings

therein, said resilient member having a plurality of spaced openings therein adapted during its slidable movement to have at least one of its openings in register with one of



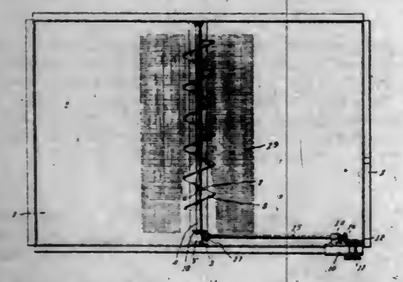
the openings in said track, whereby a fastening element may be projected therethrough for locking said resilient member relative to the track.

1,749,181. GLARE SHIELD. CONRAD EHRET, Oklahoma City, Okla. Filed Jan. 19, 1929. Serial No. 333,639½. 5 Claims. (Cl. 296—97.)



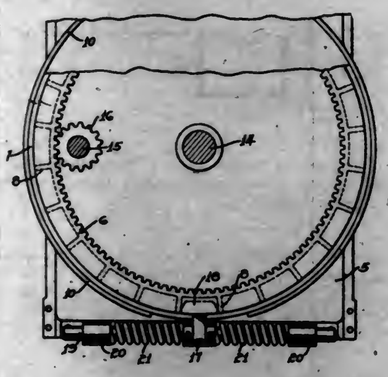
1. A device of the character described, comprising a frame covered with a fine meshed screen, both screen and frame bent into one or more sections which are angularly disposed towards each other, a vertical rod suitably fastened to the front of a motor vehicle, means for elevating and lowering said frame and screen on said rod, means for securely holding the first section of said frame to a windshield of an automobile at a desired angle, means for fastening said frame and frame holding means to the automobile front in an inoperative position.

1,749,182. AGITATOR DIP TANK. VERNIE A. FOX, Detroit, Mich., assignor to Young Brothers Company, Detroit, Mich., a Corporation of Michigan. Filed June 22, 1928. Serial No. 287,528. 8 Claims. (Cl. 91—57.)



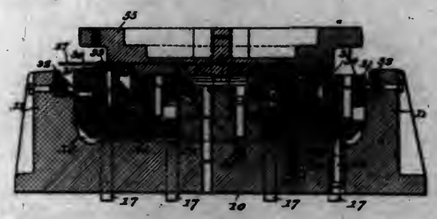
1. In combination, a dip tank, a feed screw mounted horizontally in the bottom thereof, paddles carried by said screw and spaced along the length of the screw, and means for driving said screw.

1,749,183. BASE FOR CRANES AND THE LIKE. CHARLES L. GEORGE, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a Corporation of Ohio. Filed Mar. 21, 1929. Serial No. 348,818. 4 Claims. (Cl. 212—69.)



1. In a device of the character described, a relatively fixed base member, a member mounted for limited rotational movement thereon and formed with a peripheral recess, a bar supported on the relatively fixed member adjacent said recess and extending in a direction tangential to the relatively movable member, a stop mounted on said bar and extending into said recess, means holding said stop against longitudinal movement with relation to said bar, bearings on said relatively stationary member in which said bar is longitudinally slidable, and resilient means resisting slidable movement of the bar in either direction.

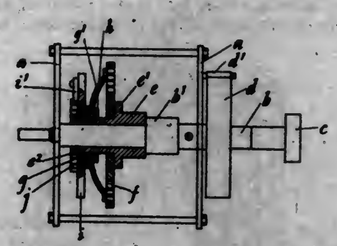
1,749,184. APPARATUS FOR FORMING FLANGED OPENINGS IN SHEET-METAL PANELS AND THE LIKE. RUSSELL E. HANSEN, Detroit, and OTTO J. GROEHN, Grosse Pointe Park, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 17, 1927. Serial No. 240,891. 9 Claims. (Cl. 153—25.)



1. In an apparatus for shaping a flanged opening in a sheet metal body, the combination of a lower die including inner and outer die members, an independently mounted upper die adapted to move in a predetermined path into said opening, means for moving said inner die member to turn the flange of said opening under said outer member, and means causing said outer die member thereafter to move away from the work.

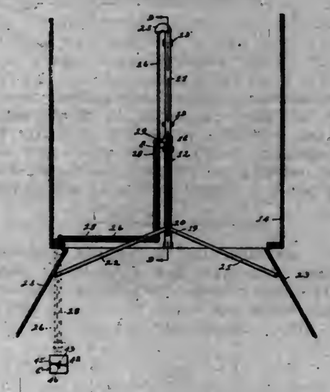
1,749,185. BACK WIND MECHANISM FOR CLOCKS. THOMAS N. HICKS, Perth, Ontario, Canada, assignor of one-half to E. Cantelo White, New York, N. Y. Filed June 23, 1927. Serial No. 200,811. 4 Claims. (Cl. 185—39.)

1. In a device of the character described, an arbor, a driving spring connected thereto, means to wind the spring, a hub mounted on the arbor, a gear carried by the hub, a clutch connection between the gear and hub, a



ratchet secured to the arbor, and a pawl mounted on the hub to engage the ratchet.

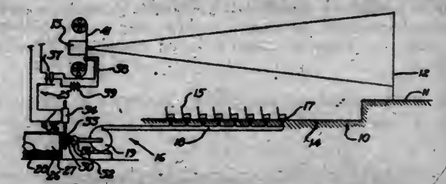
1,479,186. AUTOMATIC DOOR CONTROL. WILLIAM KOCH, Los Angeles, Calif. Filed June 21, 1927. Serial No. 200,448. 3 Claims. (Cl. 268—64.)



1. An opening and closing mechanism for a pair of doors, including a hydraulic cylinder stationarily mounted with respect thereto, a piston in said cylinder operatively connected with and adapted to open and close said doors, and having a rod extended therefrom, a carriage connected with said rod, a latch member on said carriage, a control mechanism mounted at a point remote from the doors and including separate opening and closing valves connected respectively with said cylinder on opposite sides of said piston for conducting a pressure fluid to the cylinder in a door opening and closing operation, means connected with said valves for selectively feeding the pressure fluid thereto and for draining the same therefrom, and a latch bar projecting longitudinally from an end of said cylinder and operable at the completion of a door closing operation for engaging said latch member to latch and hold the doors closed, and further operable at the initiation of an opening operation for unlatching the doors, and means movable with said piston and adapted to be engaged by said latch.

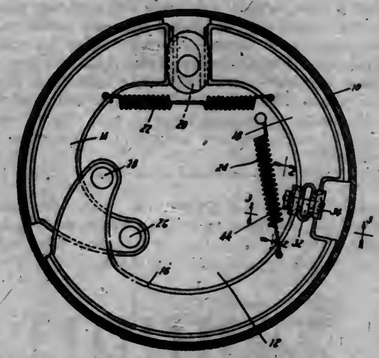
1,749,187. METHOD OF AND APPARATUS FOR PRESENTING THEATRICAL IMPRESSIONS. JOHN H. LEAVELL, Los Angeles, Calif. Filed Aug. 31, 1927. Serial No. 216,564. 6 Claims. (Cl. 88—16.)

1. An apparatus for supplying an olfactory impression in conjunction with a motion picture impression which comprises: means for transmitting said motion picture impression to an audience; means for producing an odor



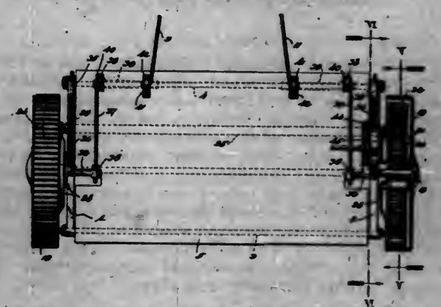
normally associated with said motion picture impression; and means operated by said first means for expelling said odor into the atmosphere breathed by the audience.

1,749,188. BRAKE. KENNETH E. LYMAN, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed July 16, 1927. Serial No. 206,152. 14 Claims. (Cl. 188—79.5.)



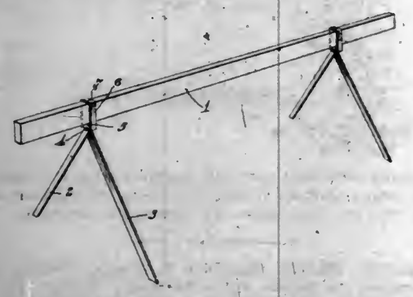
1. A brake comprising, in combination, an anchored shoe and an unanchored shoe arranged end to end, a joint connecting said shoes, and means for automatically adjusting said joint to separate the shoes to compensate for wear.

1,749,189. MOTOR-DRIVEN LAWN MOWER. PERRY E. MACK, Milwaukee, Wis. Filed Mar. 14, 1925. Serial No. 15,541. 4 Claims. (Cl. 180—19.)



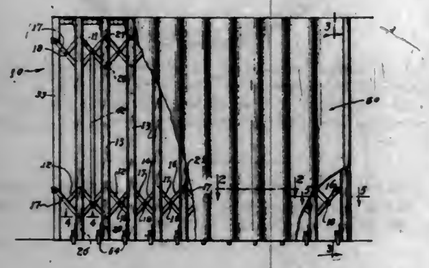
1. In a power lawn mower, ground wheels, a structure shiftable relatively to said ground wheels, inner wheels supported by said structure and fitted loosely within the ground wheels, said inner wheels being adapted for frictional engagement with the ground wheels, means for driving said inner wheels, a handle bar by which said ground wheels may be guided, control handle portions rotatably mounted on said handle bar, and rods connecting said portions to said structure, whereby turning of said portions causes relative movement between said inner wheels and ground wheels to control the application of power to said ground wheels.

1,749,190. BARRICADE SUPPORT. HAROLD C. McGAHEON, Detroit, Mich. Filed Apr. 16, 1928. Serial No. 270,250. 2 Claims. (Cl. 256—64.)



2. A barricade support comprising a pair of legs stamped from a single flat strip of material, pivoting means for connecting said legs together with the flat faces contacting, a rounded portion formed on said legs above said pivot, arm members formed on said legs above said pivot, fingers formed by bending said arms inwardly at their upper ends, said arm members and said fingers being formed by a twisting bend on said legs so that the flat faces of said strip are adapted to engage the barricade member.

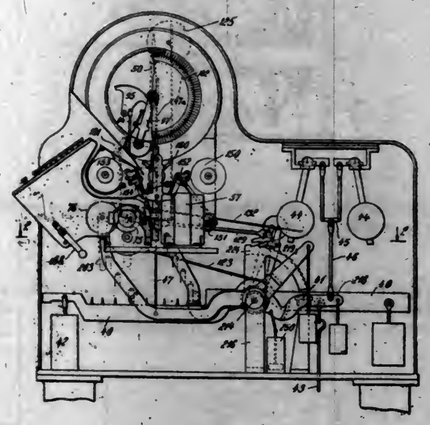
1,749,191. FOLDABLE CURTAIN. CARL H. NORDELL, Chicago, Ill., assignor to Folding Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1927. Serial No. 195,021. 3 Claims. (Cl. 20—19.)



1. In a foldable partition, the combination of a supporting structure, with a plurality of stiles, said stiles comprising pairs of channelled metal members with outwardly turned channels, wooden fillers in said channels and spacers between said channelled members, a pair of extensible members located between said pairs of channelled members and comprising a plurality of links pivoted together, said links being pivotally mounted at similar points on said channelled members, guide means carried by said supporting structure above said partition, and slidably engaged by said stiles, between said channelled members, and a flexible covering of sound and heat insulating material carried by said stiles.

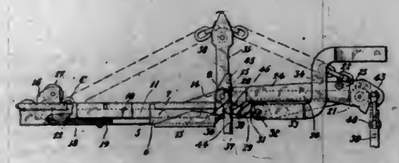
1,749,192. AUTOMATIC RECORDING SCALE. LOUIS A. OSGOOD, Dayton, and ELMER E. WOLF, Springfield, Ohio, assignors, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Dec. 8, 1920. Serial No. 429,053. 85 Claims. (Cl. 265—5.)

1. In a recording scale comprising, in combination, a weighing scale, a follow up device, weight changing mechanism for applying weights to a part of the weighing scale, a recorder controller and power means, means for operating the weight changing means from the power means when applied weights are required to counterbalance a load, means for operating the follow up device and said recorder controller from said power means in accordance with the displacement of the weighing scale, means for



thereafter positioning type carrying elements of the recorder by said power means to an extent controlled by the recorder controller, means for thereafter taking a printed impression from said type wheels and means for thereafter restoring the recorder, the controller and the follow up device to normal position by said power means.

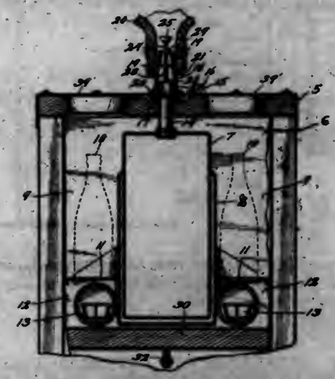
1,749,193. ANCHOR DAVIT. FRANK SCHAUMAN and BROR MAX SCHAUMAN, New York, N. Y., assignors to Automatic Anchor-Control Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1927. Serial No. 224,565. 7 Claims. (Cl. 114—210.)



1. Anchor davit mechanism including an anchor carriage, a davit member pivoted at one of its ends and having an anchor chain guide at its other end, a pivotally mounted anchor head receiving and supporting member adapted to be moved under the weight of the anchor in the casting thereof, and said supporting member and the davit member having co-acting means whereby in the movement of said supporting member, said davit member is pivotally moved to its anchor casting position.

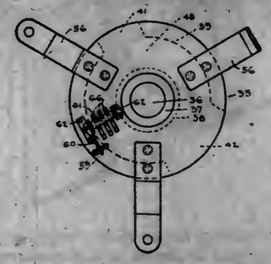
1,749,194. WATER COOLER. VICTOR T. SCHMITT, Chicago, Ill., assignor to Hinckley & Schmitt, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1929. Serial No. 355,255. 3 Claims. (Cl. 62—44.)

1. In combination a water cooler comprising a casing, a water storage tank in said casing, a pipe extending vertically through said casing, supply means arranged outside of said casing, a washer arranged about said pipe, a valve casing having its lower end resting on said washer, a normally closed spring-pressed valve in said casing for establishing communication between said tank and said



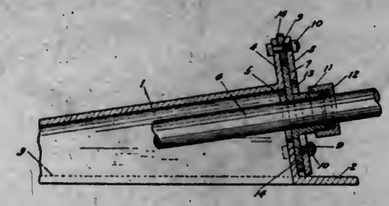
supply, and means for maintaining said valve in open position when the supply means and tank are in proper operating position.

1,749,195. COIN-CONTROLLED OPERATING MECHANISM FOR VENDING MACHINES AND THE LIKE. VERNON ALBERT SCOTT, Toronto, Ontario, Canada, assignor of fifty-one per cent to Urban David Clark, Toronto, Canada. Filed Oct. 31, 1927, Serial No. 230,001. Renewed July 25, 1929. 5 Claims. (Cl. 194—61.)



1. In a coin-controlled operating mechanism for vending machines, a base plate having a circularly-arranged groove on one face thereof and a coin inlet and a coin outlet opening into said groove, a coin-driving disc having a circularly-arranged projection sliding in said groove and depressed to form with said base plate a coin chamber, a pin slidably mounted in said base plate and springheld in locking engagement with said base plate, a pivoted finger extending into the path of said coin chamber, and a lever rigid with said fingers and operatively engaging said pin.

1,749,196. SELF-ADJUSTING SHAFT BEARING. WILLIAM STROHMEIER, Andalusia, Ill. Filed June 17, 1929. Serial No. 371,552. 3 Claims. (Cl. 308—62.)



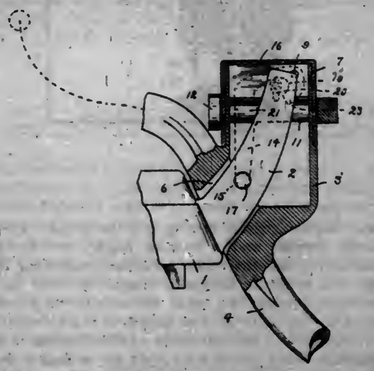
1. In combination with a shaft casing and head therefor, provided with an opening permitting a universal lateral movement of a shaft passing therethrough, a relatively small plate and shaft bearing projected outwardly therefrom, a clamp-plate connected with said head, provided with an opening permitting free lateral movement of said shaft bearing, and radially adjustable stops on opposite sides of said small plate, of equal thickness therewith.

1,749,197. AWNING. JOHN LENARD STUART, Oakland, Calif. Filed Jan. 26, 1929. Serial No. 335,291. 17 Claims. (Cl. 156—44.)



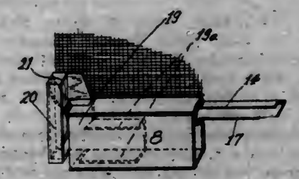
8. An awning comprising a fixed support; a roller mounted thereupon; a flexible cover wound upon said roller; a bar to which the outer edge of said cover is secured; means for rotating said roller; and means connected with said roller and operable in timed relation thereto for moving said bar toward and away from said support, the last mentioned means including a resilient connection adapted to keep said cover taut.

1,749,198. SWITCH-STAND LOCK. PETER SWANSON, Ely, Minn. Filed Jan. 15, 1929. Serial No. 332,646. 4 Claims. (Cl. 246—414.)



1. The combination with a switch stand having a lock engaging lug extending therefrom, and an operating lever, of locking means comprising an open channel shaped member carried by the lever, a housing member for telescopic engagement over the channel shaped member, and a rotatably locking bolt mounted in the members and installable therein after assembly of said members.

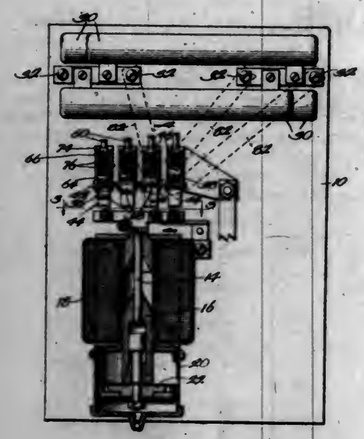
1,749,199. TENSION BAR AND GUIDE FOR ROLL SCREENS. CLIFFORD TRAUT, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a Corporation of West Virginia. Filed Mar. 17, 1928. Serial No. 262,417. 7 Claims. (Cl. 156—39.)



1. In a controlling mechanism for roll screens a tension bar formed of sheet metal bent upon itself to form

a tubular section and a channel for a screen fastening, screen fastening means within said channel and means at the end of said tension bar to control the movement of the same along guideways comprising a metallic member operating in said guideways and a spring on said metallic member bearing against said guideways.

1,749,200. ELECTRIC SWITCH. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 27, 1925. Serial No. 25,993. 20 Claims. (Cl. 200—166.)



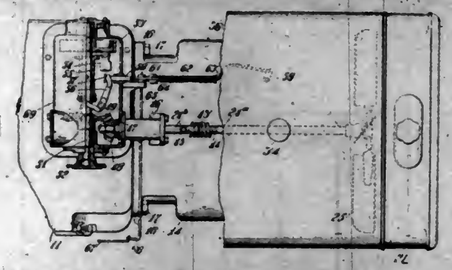
1. An electric switch having an electrically energized stationary support and a contact finger, one having an open concavity and the other a portion projecting into it, whereby the finger is pivotally supported, may be lifted off, and is energized, the front side of the finger making contact with the fulcrum and having a main contact surface, an abutment fixed relatively to the fulcrum, a spring engaging the finger between its ends for urging it forward toward acting position and to maintain it seated on the fulcrum, and a tail at the inner end of the finger, for engaging the abutment to limit the forward movement of the finger about its fulcrum.

1,749,201. MERCURY-BROMIN DERIVATIVE OF FLUORESCEIN. WILLARD L. VOGEL, Los Angeles, Calif., assignor of one-tenth to Paul W. Prutzman. Filed May 28, 1928. Serial No. 281,355. 2 Claims. (Cl. 260—13.)

1. The herein described product: the di-mercury derivative of mono-brom-fluorescein.

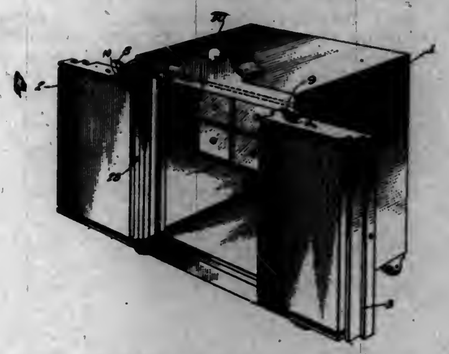
1,749,202. TRACTOR. LOUIS W. WITRY, Waterloo, Iowa, assignor to John Deere Tractor Company, Waterloo, Iowa, a Corporation of Iowa. Original application filed Dec. 24, 1923, Serial No. 682,401. Divided and this application filed Jan. 25, 1928. Serial No. 249,366. 12 Claims. (Cl. 123—171.)

1. The combination with an internal combustion motor, a radiator, and a fan for drawing air through said radiator, of means for driving said fan from said motor comprising relatively long shaft members journaled at their outer ends and loosely coupled together at their inner ends, one of said shaft members being connected with the fan and the other being positively driven by the motor, and



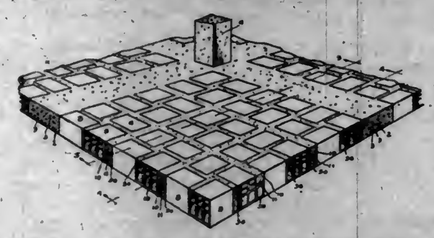
a spring coupling the inner ends of said shaft members together for transmitting starting torque from one of said shaft members to the other.

1,749,203. APPARATUS FOR AUTOMATICALLY CLOSING AND LOCKING SAFE DOORS. CARL F. WOLTERS and CHARLES SHULTE, Marietta, Ohio, assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 5, 1925. Serial No. 13,155. 26 Claims. (Cl. 109—9.)



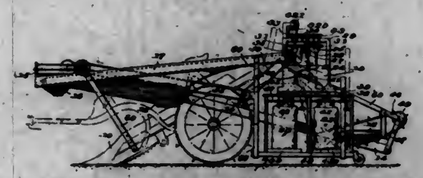
3. In a safe having double doors, means to close each of said doors, a pair of shafts, a dog mounted for movement with each shaft and each adapted to normally retain a door in the open position, a spring tending to move each of said dogs to release its respective door, a stop to hold each of said dogs against such movement, means to release one of said stops and close one of the doors, and a rider actuated upon the closing of said door to release the other of said dogs.

1,749,204. FLOOR SLAB. JOHN C. WOOD and ARTHUR HAGENER, Lakewood, Ohio, and KARL E. WAGNER, Chicago, Ill., assignors to The Whitacre Engineering Company, Waynesburg, Ohio, a Corporation of Ohio. Filed June 27, 1927. Serial No. 201,631. 17 Claims. (Cl. 72—66.)



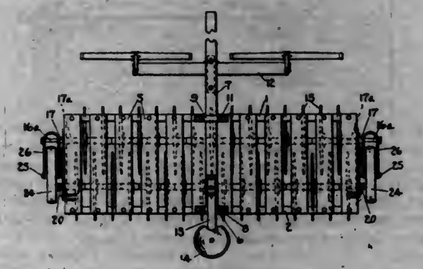
4. A floor slab having reinforced concrete joists and groups of hollow tile blocks bonded between joists, the open ends of tile in the group abutting adjacent tile, a non-reinforced concrete key disposed between abutting ends of the tile in the group and transmitting compressive load between blocks in the group and having lugs extending into the open ends of the abutting tile.

1,749,205. POTATO HARVESTER. WILLIAM HENRY ALLEN, Sr., and EDWIN M. ALLEN, Freehold, N. J.; William Henry Allen, sr., assignor to Pauline Elizabeth Allen and Viola Cecelia Allen, Freehold, N. J. Filed Oct. 3, 1923. Serial No. 666,409. 5 Claims. (Cl. 209—307.)



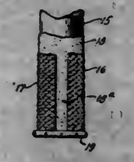
1. A frame having a conveyor extending transversely thereof in position to receive vegetables, an endless conveyor extending forwardly of the frame at one side thereof, an endless screen conveyer extending transversely of the frame at the front thereof, and an endless screen conveyer extending rearwardly at the other side of the frame, the vegetables in assorted sizes being delivered from said screen conveyers, and transporting means situated between the two side conveyors.

1,749,206. ROTARY HOE. CARL F. BAUER, Rock Island, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Jan. 28, 1928. Serial No. 250,205. 13 Claims. (Cl. 55—11.)



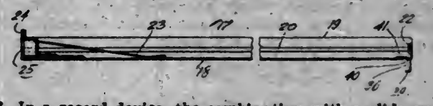
1. In a rotary hoe, the combination of a frame, a shaft extending transversely of said frame and having an end portion projecting beyond the side of the frame, a plurality of hoe wheels mounted on said shaft, a U-shaped wheel supporting arm having transversely aligned apertures in the opposite sides of its looped end pivotally supported on the projecting end of said shaft, a supporting wheel mounted between the sides of said arm, and means for swinging said arm to adjust said frame and said supporting wheel vertically relatively to each other.

1,749,207. NONSLIPPING DEVICE. ROBERT S. BLAIR, Stamford, Conn. Filed Oct. 8, 1923. Serial No. 667,122. 7 Claims. (Cl. 120—84.)



1. In a device of the class described, in combination, an endless band of elastic material, and a member having a plurality of minute inclined projections secured at spaced points to the outer surface of said band, adapted to form a non-slipping surface about a member upon which said band is placed.

1,749,208. RECORD DEVICE. EDWARD CARLSON, Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Original application filed July 3, 1924, Serial No. 724,061. Divided and this application filed Dec. 30, 1925. Serial No. 78,355. 6 Claims. (Cl. 45—7.)



6. In a record device, the combination with a slide support and a slide movable into and out of said slide support, of a hook member formed of a shank having a hook on one end, the opposite end of said shank being slidable laterally in said slide and extensible therefrom, and a part on said slide support for engaging said hook as said slide is withdrawn from said support and to maintain said slide spaced apart from said support, said shank being adapted to slide into extended position as the slide is withdrawn from said support whereby said slide may be suspended by said hook member and the engaging part on said slide support, substantially vertically outside of said slide support.

1,749,209. CONDUCTOR SUPPORT. MILTON W. COOKE, Pittsburgh, Pa., assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Feb. 18, 1929. Serial No. 340,706. 8 Claims. (Cl. 191—48.)



1. A conductor support comprising a support member having means for attachment to a structure and a longitudinally disposed surface thereon for engagement with a conductor, a U-shaped sleeve to contact with the opposite side of the conductor from the said surface and transversely disposed means to engage oppositely disposed portions of the sleeve and draw such portions towards each other and simultaneously draw the support member and sleeve towards each other to grip the conductor and to secure the support and sleeve together.

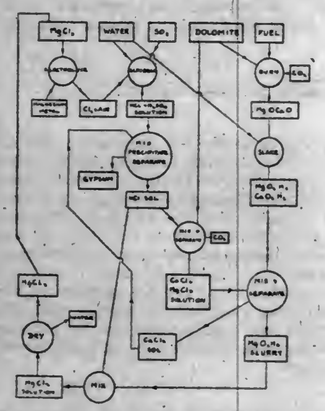
1,749,210. UTILIZATION OF DOLOMITE OR MAGNESIAN LIMESTONE FOR PRODUCTION OF METALLIC MAGNESIUM, ETC. HERBERT H. DOW and EDWIN O. BARSTOW, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Oct. 30, 1926. Serial No. 145,376. 7 Claims. (Cl. 204—19.)

1. A cyclic process of making magnesium and magnesium chloride, which comprises subjecting magnesium chloride to electrolysis in a molten bath, converting the chlorine formed thereby into hydrochloric acid, reacting such acid upon dolomite, separating the magnesium chloride and calcium chloride thereby produced, and returning such magnesium chloride to the bath.

1,749,211. PRODUCTION OF METALLIC MAGNESIUM, ETC., FROM DOLOMITE OR MAGNESIAN LIMESTONE. HERBERT H. DOW and EDWIN O. BARSTOW, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Nov. 8, 1926. Serial No. 147,179. 3 Claims. (Cl. 204—19.)

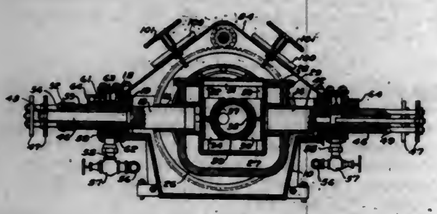
1. A cyclic process of making magnesium and magnesium chloride, wherein dolomite is utilized as the ultimate source

of such magnesium, which comprises electrolyzing magnesium chloride to produce magnesium and chlorine, reacting the chlorine with sulphur dioxide and water whereby hydrochloric and sulphuric acids are formed, removing the sulphuric acid by treating with calcium chloride and thereby forming an amount of hydrochloric acid additional to that first formed, reacting a portion of such hydrochloric acid with raw dolomite, treating the resulting



solution with hydrated calcined dolomite, separating magnesium hydroxide from the solution of calcium chloride, returning the calcium chloride to the above mentioned third step, treating the magnesium hydroxide with the remaining portion of hydrochloric acid from said third step, dehydrating the magnesium chloride so formed, and returning the dried chloride to the above mentioned first step.

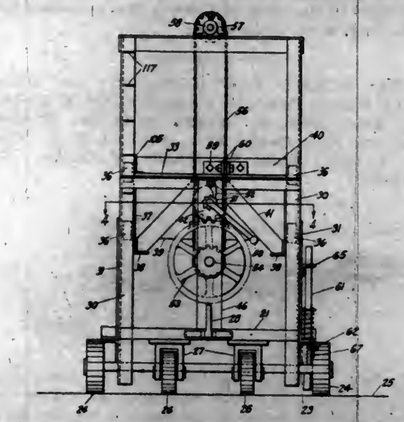
1,749,212. PUMP. THOMAS ELLIOTT, Birmingham, Ala., assignor to Continental Gin Company, a Corporation of Delaware. Filed May 18, 1928. Serial No. 278,814. 7 Claims. (Cl. 103—171.)



1. In a pump, a plurality of pairs of spaced aligned cylinders, a scotch yoke disposed between the opposed spaced ends of each pair of cylinders and having opposed arcuate slideways, complementary slides fitting in the slideways, a crank for actuating the slides, a reciprocable piston in each of the cylinders, and means connecting each of the pistons with its associated yoke.

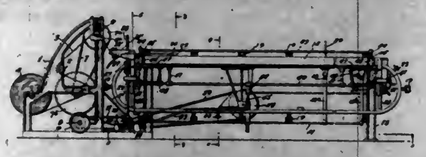
1,749,213. PROCESS AND APPARATUS FOR MOLDING. STEPHEN FLAM, Walnut Park, Calif., assignor to Supertile Machinery Corporation, Los Angeles, Calif., a Corporation of California. Filed Feb. 19, 1925. Serial No. 10,265. 15 Claims. (Cl. 25—2.)

1. The process of casting cored articles, which comprises filling a cored mold defining the external and internal surfaces of the articles, with wet plastic material that is incapable before setting, of retaining its molded form without support, and withdrawing the core from



the mold before the material has set appreciably, whereby the mold is left around the plastic material which clings thereto and retains it in its cast form.

1,749,214. CLOTH SPREADING AND PILING MACHINE. JOSEPH E. GADBOIS, Springfield, Mass. Filed Apr. 16, 1928. Serial No. 270,884. 17 Claims. (Cl. 270—30.)



1. A cloth measuring and cutting machine comprising a material supporting structure, a table extending therefrom, feed mechanism cofunctioning with the supporting structure to feed material across said table, cutting mechanism operatively positioned upon the table for cutting the material in predetermined lengths, and means for elevating the feed mechanism periodically.

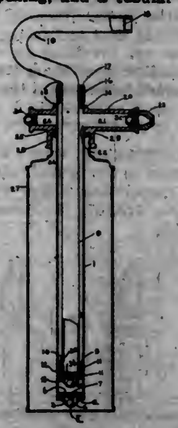
1,749,215. SEALING MEANS FOR PERFORATED CONTAINER CAPS. GREGOR H. GLITZKE, Kansas City, Mo. Filed Feb. 27, 1928. Serial No. 257,310. 2 Claims. (Cl. 221—61.)



1. A cap structure for containers comprising a perforated cap element adapted to be removably fitted to the container, a perforated disk secured inside the cap and having perforations of the same size as the perforations of said cap element and in registered relation therewith, and a closure element comprising an imperforate disk or diaphragm of frangible material embraced between said first disk and cap element and sealing the perforations thereof.

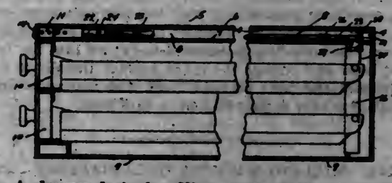
1,749,216. DOUBLE-ACTING PUMP. DAVID H. GOLDMAN, Cleveland, Ohio. Filed July 19, 1928. Serial No. 294,015. 2 Claims. (Cl. 103—178.)

1. A pump comprising a sheet metal barrel having a valve at the foot and a packing gland at the top and an outlet opening below said gland, a head through which said barrel extends, said head having an outlet communicating with said opening, and a tubular sheet metal pis-



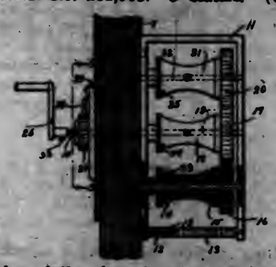
ton rod in the barrel, having a valve at its lower end and extending at its upper end through said gland and bent at its upper end to form a handle.

1,749,217. FILING CABINET. THOMAS HEELAN, North Tonawanda, N. Y., assignor to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed June 15, 1925. Serial No. 37,174. 6 Claims. (Cl. 45—94.)



1. A drawer lock for filing devices wherein a cabinet is provided with a plurality of drawers, comprising a lock member movably mounted in the cabinet having locking cooperation with said drawers in one position, a bar member slidably mounted in said cabinet, a link connecting said lock member and bar member, an operating rod rotatably mounted in the cabinet, a lost-motion connecting mechanism between the operating rod and said bar member for transmitting the rotary motion of said operating rod to reciprocate said bar member, a key controlled and operated mechanism for operating said rod, and a lost-motion connecting means between said mechanism and said operating rod.

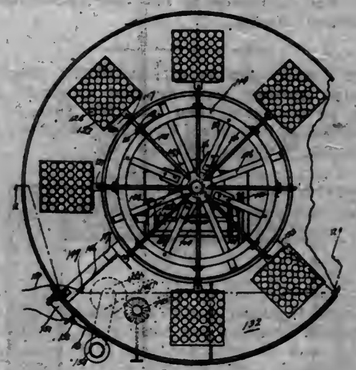
1,749,218. AWNING RAISING AND LOWERING DEVICE. DAVID N. IRWIN, Detroit, Mich. Filed Feb. 4, 1928. Serial No. 251,903. 5 Claims. (Cl. 156—44.)



3. A device of the class described adapted for mounting on the exterior surface of a building wall comprising:

a U-shaped frame; a plurality of rollers rotatably mounted in said frame; a shaft projected through one of said rollers and through said wall, said shaft being rotatable in unison with said roller; and a gear carried by each of said rollers meshing with a gear on the adjacent roller; and a crank on the inner end of said shaft for rotating the same.

1,749,219. EGG-PRESERVING MACHINE. ANDREW E. LINDSTROM, San Francisco, Calif., assignor to Kasser Egg Process Company, San Francisco, Calif., a Corporation of California. Filed June 15, 1925. Serial No. 37,305. 4 Claims. (Cl. 99—2.)



1. In a machine for operating upon eggs, a rod, means carried by said rod for supporting eggs, means for pivoting the rod adjacent one end on a horizontal axis, means for moving the rod about a vertical axis adjacent the horizontal pivot, and means for guiding the free end of the rod in the course of its movement about the vertical axis so as to vary the level of said free end.

1,749,220. STEREOSCOPE. HERMANN LÖSCHER, Munich, Germany, assignor to the Firm Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Bodensee, Germany. Filed June 26, 1925. Serial No. 39,646, and in Germany July 9, 1924. 3 Claims. (Cl. 88—29.)



1. A stereoscope comprising a flat middle portion; hinges at both ends of said middle portion; a glass carrying portion hinged to one end of said middle portion; a picture carrying portion hinged to the other end of said middle portion; the axis of said hinges being situated between the upper and lower surface planes of said middle portion; and part of said middle portion being cut out so that its remaining shape allows for the other two portions of being folded into a common plane with said middle portion instead of one above the other.

1,749,221. ORNAMENTAL RADIATOR CAP. ROSCOE MARANZINO, Los Angeles, Calif. Filed June 19, 1928. Serial No. 286,511. 6 Claims. (Cl. 240—8.11.)

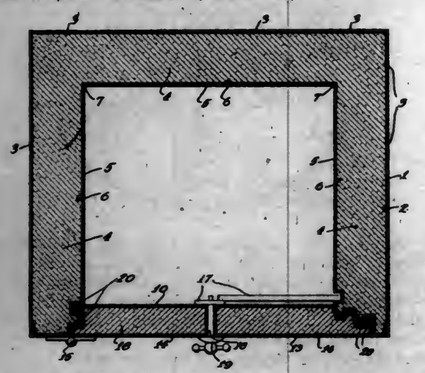
6. In an automobile cap, a body portion having a domed top, a bottom and a polygonal side wall, said

polygonal side wall having a plurality of apertures therein, a translucent closure in each of said apertures, said top having an aperture therein, a translucent closure in



said top aperture and a figure secured to said top in position to be illuminated by light passing through said top translucent closure.

1,749,222. HEAT-RESISTING CABINET. EDMUND S. MERRIAM, Marietta, Ohio, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 19, 1924. Serial No. 693,741. 6 Claims. (Cl. 109—2.)



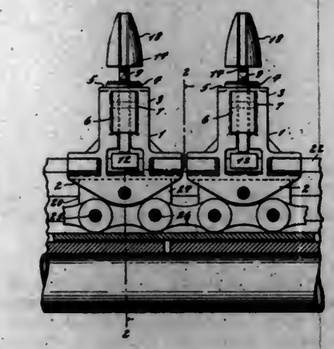
1. A safe, comprising a solid monolithic body having an opening at one side to a compartment formed therein, an inner imperforate sheet metal casing fitted in said compartment in the body, said casing having an outwardly flared marginal flange at the open end fitting said body around said open end, a perforate sheet metal outer casing on said body, and a closure for the open end of said compartment, said closure having a monolithic panel provided on its inner face with a sheet metal plate having a marginal flange formed for hermetic sealing cooperation with the marginal flange on said inner casing in closed position, and a perforate outer metal plate on said panel, said inner casing providing a moisture-proof container in sealed relation, said monolithic body providing a fire resistant and protective enclosure for said inner casing, and said outer casing providing a protective covering for said monolithic body and releasing moisture exuding therefrom.

1,749,223. WINDOW SHADE. GEORGE GLENN MOTT, Pasadena, Calif. Filed Nov. 7, 1928. Serial No. 317,831. 11 Claims. (Cl. 156—31.)



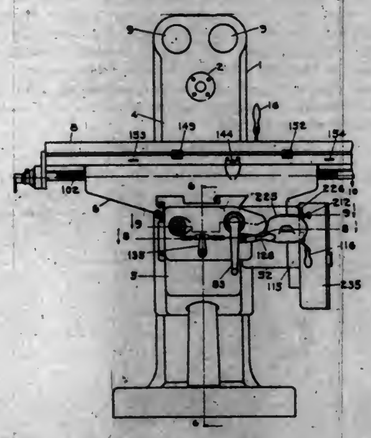
7. A window shade having a pair of slats between which a fabric forming the shade extends, the fabric being reversely bent upon itself between the slats and having its end extending upwardly between the slats and then extending around the slats on the exterior surfaces thereof to provide finished exterior surface thereon, and a hollow rivet extending through the slats and fabric fastening the slats and fabric together and providing for the reception of the shade cord, said hollow rivet being the sole means securing the slats together intermediate the ends thereof.

1,749,224. FRUIT HOLDER. EDWIN D. OSTRICHER, Woodbury, Ga., assignor to The Hills Brothers Company, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1928. Serial No. 329,187. 5 Claims. (Cl. 198—131.)



1. A fruit holder for use in fruit treating apparatus comprising a head adapted to support a previously cored fruit thereover; movable fingers adapted to extend into the fruit on said head and engage the inner surface thereof to frictionally hold the fruit on said head, and means to guide the fruit over said fingers and on to said head.

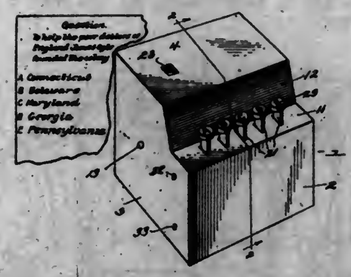
1,749,225. MILLING-MACHINE ORGANIZATION. FRED A. PARSONS, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a Corporation of Wisconsin. Filed Aug. 21, 1924. Serial No. 733,841. 77 Claims. (Cl. 90—21.)



1. In a milling machine embodying a movable support, the combination of a power source, a transmission train connecting said source to said support, said train embody-

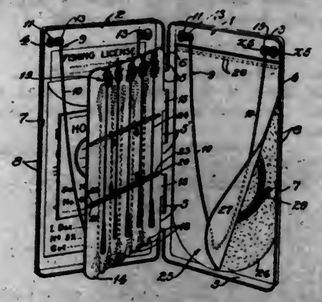
ing a shiftable clutch element, a dog having continuous uni-directional power movement when said support is stationary, and an operating connection from said dog for shifting said element.

1,749,226. MACHINE FOR INTELLIGENCE TESTS. SIDNEY L. PRESSEY, Columbus, Ohio. Filed June 21, 1928. Serial No. 287,293. 22 Claims. (Cl. 35—12.)



1. In apparatus of the character set forth, a casing, a drum rotatably mounted within said casing, said drum being provided with a plurality of longitudinally spaced depressions in its periphery, a plurality of individually movable selectors, individual keepers operatively associated with said selectors, a counter mechanism, a drum rotating mechanism, and a perforated sheet of flexible material provided in connection with the peripheral portion of said drum and operating in connection with said selectors and keepers to control the operation of said drum and counter mechanism.

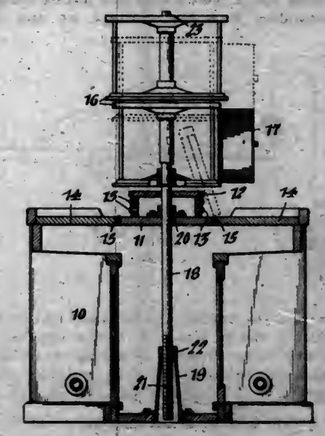
1,749,227. COMPACT FLY AND TACKLE CASE. WILLIAM A. PRUETT, Los Angeles, Calif. Filed Apr. 3, 1926. Serial No. 99,601. 6 Claims. (Cl. 43—32.)



1. In a device of the character set forth comprising a hinged fly leaf the ends of which are provided with cut-away portions to provide recesses; hook members struck up from opposite sides of the leaf; springs secured to said hook members; and other hook members adapted to prevent bowing of said springs.

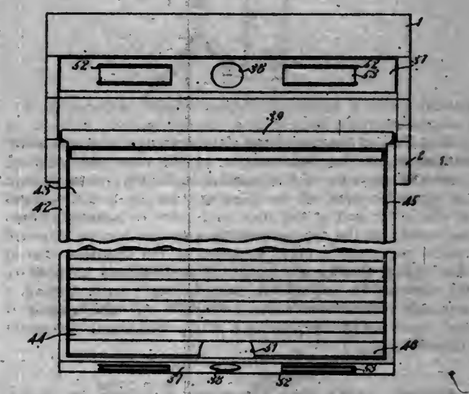
1,749,228. INDEX FOR TELEPHONE-EXCHANGE DESKS. BENJAMIN G. RAND, North Tonawanda, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a Corporation of Delaware. Filed Dec. 29, 1924. Serial No. 758,786. 2 Claims. (Cl. 45—2.)

2. The combination with a telephone exchange desk having a vertically movable cover in its top, of an index holder disposed over said cover and normally preventing full opening movement thereof, a support post for said



index holder, and means by which said post may be elevated to bring the index holder to a height to permit opening of the cover.

1,749,229. INDEX DEVICE. JAMES H. RAND, North Tonawanda, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed May 24, 1924. Serial No. 715,612. 2 Claims. (Cl. 45—2.)

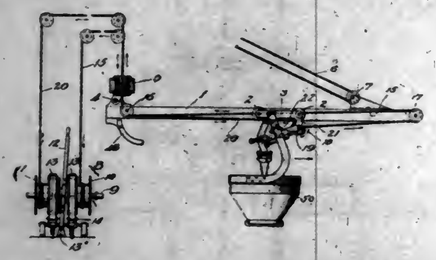


2. An index device, comprising a cabinet having a plurality of superposed sections, one of said sections forming a top section, said top section being normally horizontally disposed and comprising a sheet metal body having side and end walls, laterally and inwardly extending flanges at the upper and lower edges of said walls, the upper flanges terminating in downwardly extending portions defining a cover receiving opening, and U-shaped members extending transversely across the front and rear ends of said body embraced by said flanges and retained by said downwardly extending portions.

1,749,230. CONCRETE DISTRIBUTOR. NILS M. ROSENDAHL, Waterloo, Iowa, assignor to Construction Machinery Company, a Corporation of Iowa. Filed Apr. 10, 1926. Serial No. 101,010. 8 Claims. (Cl. 214—39.)

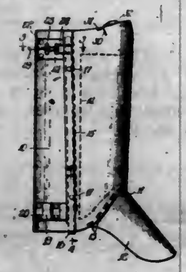
1. The combination with a device of the character described including a boom, a carriage mounted upon the

boom, a bucket carried by the carriage, and lines for operating the carriage, of means whereby opposite stress upon the lines opens the bucket, said means comprising a bracket depending from the carriage, an arm pivotally



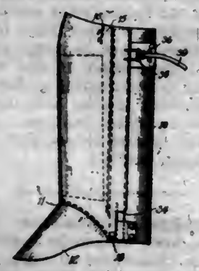
mounted within the bracket the outboard end of said arm having limiting means attached thereto and the inboard end of the arm being operated by spring controlled means directly connected to one of the lines, and door controlling means attached to the outboard end of said arm.

1,749,231. PULL-OFF LEGGING. SAMUEL N. SAGER, Chicago, Ill. Filed Jan. 3, 1928. Serial No. 244,139. 6 Claims. (Cl. 36—2.)



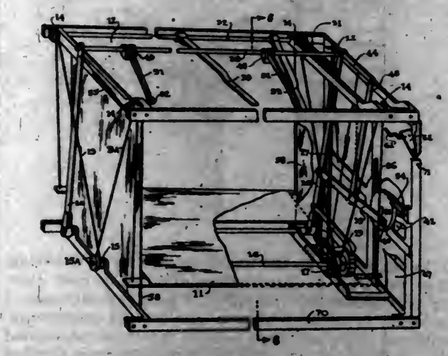
3. A pull-off legging of the class described wrapped about the leg in overlapping relation at the outer side thereof, a stay in one edge of the legging, a plurality of pockets in the opposite edge of the legging adapted to be engaged by the lower end of the stay, and quick detachable fastening means at the top comprising a spring tongue attached to the stay, and a plate attached to the opposite edge of the legging having a number of perforations adapted to be engaged by the spring tongue, the tongue having a manually engageable outer projection for disengaging it and removing the legging by a single continuous movement thereof.

1,749,232. PULL-OFF LEGGING. SAMUEL N. SAGER, Chicago, Ill. Filed Nov. 5, 1928. Serial No. 317,173. 7 Claims. (Cl. 36—2.)



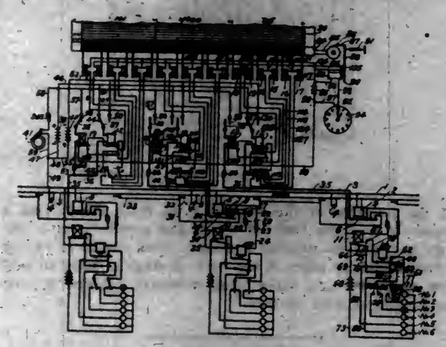
1. A quick detachable legging of the over-lapping type having a pocket in the underlying portion, and means at the edge of the overlying portion comprising two extremities extending to the bottom of the legging one attached to the body of the legging at the bottom thereof and the other free from attachment to the legging at its extremity and exposed for engagement in the pocket.

1,749,233. MACHINE FOR DELIVERING NEWSPAPERS AND THE LIKE. VERNON ALBERT SCOTT, Toronto, Ontario, Canada, assignor of fifty-one per cent to Urban David Clark, Toronto, Ontario, Canada. Filed Feb. 9, 1928. Serial No. 253,110. 7 Claims. (Cl. 312—57.)



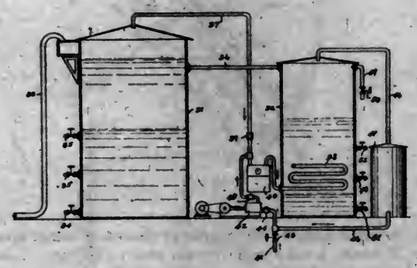
1. In a machine for delivering newspapers and the like, a casing having a newspaper slot, an elevator for the newspapers movable vertically, pulleys mounted above said elevator, a shaft rotatably mounted under said elevator and having pulleys and a drive wheel rigid thereon, cables trained over said first-mentioned pulleys and secured at one end to said elevator and anchored at the other end in the pulleys on said shaft, ejecting means operating to successively deliver the newspapers into said slot, means actuated by said ejecting means operating to rotate said drive wheel in a direction to raise said elevator, and means operating to releasably lock said drive wheel as said elevator is gradually raised.

1,749,234. AUTOMATIC TRAIN CONTROL. PAUL J. SIMMEN, Eden, N. Y. Filed Feb. 10, 1923, Serial No. 618,193. Renewed May 17, 1928. 30 Claims. (Cl. 246—4.)



15. In a railway signal and dispatching system; more than three different signals for directing the movement of trains; two means for the control of the signals, one means being a track circuit and the other being located at a central point; and means cooperating with the means at a central point for indicating or recording the location of a train.

1,749,235. APPARATUS FOR TREATING CRUDE PETROLEUM. GEORGE A. STAFFORD and CHARLES D. COOK, Sour Lake, Tex. Filed Feb. 16, 1925. Serial No. 9,629. 8 Claims. (Cl. 196—7.)



1. An apparatus of the character described including a separating tank adapted to contain oil to a certain level, a treating tank, a flow line entering the separating tank, a delivery line connecting said tanks near the tops thereof, one end of which is connected into the separating tank beneath the oil level thereof, a gas line connected into the top of the separating tank and terminating within the treating tank near the bottom thereof, a back pressure valve controlling said gas line, a gas flow line connected into said gas line between said valve and the treating tank, a shut off valve controlling the gas flow line, a circulating line one end of which is connected into the top of the treating tank and whose other end is connected into said gas flow line between said shut off valve and back pressure valve.

1,749,236. KNIFE CONSTRUCTION. JOHN S. STRINGFELLOW, Lindsay, Va. Filed Oct. 26, 1928. Serial No. 315,251. 1 Claim. (Cl. 30—9.)



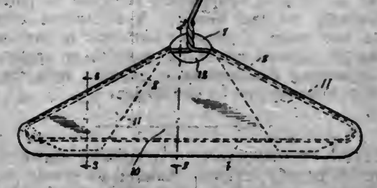
A combined blade container and knife including a tubular body portion having a tapered open end, a holder embodying a tubular member split along its side, portions of the blade holder adjacent to the split being extending inwardly defining wide blade engaging flanges, a blade positioned within the blade holder between the flanges, and said flanges adapted to grip the blade when the blade holder is forced into the tapered end of the tubular body portion.

1,749,237. BURGLARPROOF DOOR. SAMUEL M. WEINSTEIN, Chicago, Ill. Filed Dec. 7, 1927. Serial No. 238,361. 2 Claims. (Cl. 20—16.)

1. A burglar proof door having inner and outer bullet proof transparent panels near the top, a movable opaque panel between the same, the lower portion of the door being slotted, a handle carried by the opaque movable panel and extending into the slot for raising and lowering said movable panel and means to support the handle in a top position when the movable panel is disposed in a raised position over the bullet proof panels.



1,749,238. GARMENT-HANGER COVER. GEORGE WORDINGHAM, Milwaukee, Wis. Filed Nov. 7, 1928. Serial No. 317,798. 6 Claims. (Cl. 223—61.)



1. A garment hanger cover comprising a sheet having an opening formed therein and having portions between the opening and ends of the sheet crimped longitudinally to form tongues extending inwardly and increasing in depth towards their outer ends to provide the cover with tapered end portions, the walls of the tongues being secured together.

1,749,239. SAFETY FRYING PAN. ALBERT B. ABEL, Sydney, New South Wales, Australia. Filed Nov. 27, 1928. Serial No. 322,247. 1 Claim. (Cl. 53—7.)

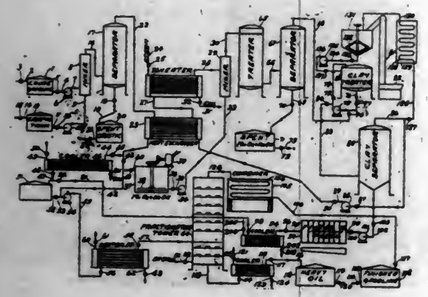


A frying pan comprising a flat bottom portion, side walls projecting outwardly from said bottom portion, said bottom portion projecting beyond said side walls defining a flat extension of sufficient extent to prevent contact of a heating flame with said side walls during frying.

1,749,240. PROCESS OF PURIFYING HYDROCARBONS. JOHN C. BLACK, Los Angeles, Calif., assignor, by mesne assignments, to Richfield Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed Mar. 10, 1928. Serial No. 260,653. 3 Claims. (Cl. 196—29.)

1. A process of treating gasoline or naphtha derived from cracking petroleum oils, comprising commingling the

gasoline or naphtha stock which has been treated with sulphuric acid, caustic soda and rendered "sweet" to the "doctor test" by treatment with a water solution of caustic soda containing the requisite quantity of suspended manganese dioxide, with a comminuted adsorbent



clay at an elevated temperature sufficient to polymerize substantially all the unstable hydrocarbons contained therein and under a pressure sufficient to prevent any substantial vaporization of the gasoline or naphtha and then separating the gasoline or naphtha from the products of polymerization, by distillation.

1,749,241. PRODUCTION OF STENCIL SHEETS FOR USE IN DUPLICATING. ARMAND DE WAELE, London, England, assignor to D. Gestetner, Limited, London, England. Filed May 3, 1928, Serial No. 274,975, and in Great Britain July 22, 1927. 4 Claims. (Cl. 41—38.6.)

1. Stencil sheets having a coating composition or ink-resisting medium the main gelatinised constituent of which is a gelatinised cellulose ester in intimate association with a gelatinised organic colloid dispersable in water.

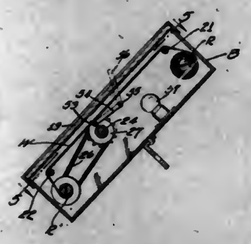
1,749,242. DYESTUFFS WHICH ARE ALANINES OF THE ANTHRAQUINONE SERIES AND THEIR DERIVATIVES. WALTER DUISBERG, Leverkusen, near Cologne, and WINFRID HENTRICH and LUDWIG ZEH, Wiesdorf, near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 16, 1926, Serial No. 81,798, and in Germany Jan. 31, 1925. 7 Claims. (Cl. 260—60.)

1. As new products anthraquinone-β-alanines of the general formula:

$$A-\left(N\begin{matrix}H\\ CH_2.CH_2.COOH\end{matrix}\right)_n$$

in which A stands for an anthraquinone residue and n designates a whole number not greater than 4, which products are dark powders having a metallic luster, are easily soluble in water in form of their alkali-metal salts, yield clear yellow to deep greenish-blue solutions, are easily soluble in concentrated sulfuric acid forming colored solutions, dye artificial silk and wool from yellow to deep greenish-blue shades and are substantially identical with the products obtained by reacting halogenated propionic acids with aminoanthraquinones.

1,749,243. ROAD-MAP-EXHIBITING APPARATUS FOR MOTOR VEHICLES. WILLIAM L. EGLINTON, Glendale, Calif. Filed Feb. 27, 1928. Serial No. 257,211. 5 Claims. (Cl. 40—42.)

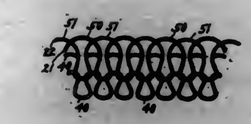


1. An apparatus of the character described comprising a pair of reels, a map web trained about the reels, means for feeding the web from one reel to the other, and means for moving the web free of said feeding means to permit manual rotation of either reel to effect any desired adjustment of the map web.

1,749,244. METHOD OF TREATING COMMERCIAL GASOLINE FOR INTERNAL-COMBUSTION ENGINES TO REMOVE AND PREVENT THE FORMATION OF CARBON. MARCUS J. FESSLER, Syracuse, N. Y. Filed Dec. 24, 1925. Serial No. 77,590. 4 Claims. (Cl. 44—9.)

1. The herein described method of treating commercial gasoline for internal combustion engines to remove and prevent the formation of carbon consisting in introducing a relatively small percentage by weight of tetrahydronaphthalene of the hydrogenated carbocyclic series into a relatively large quantity by weight of commercial gasoline at normal atmospheric temperatures and without any alteration of the gasoline previous to the introduction of the tetrahydronaphthalene.

1,749,245. KNITTED FABRIC AND METHOD OF PRODUCING THE SAME. JOSEPH A. FIRSCHING, Utica, N. Y. Filed Nov. 15, 1921. Serial No. 515,203. 4 Claims. (Cl. 66—194.)

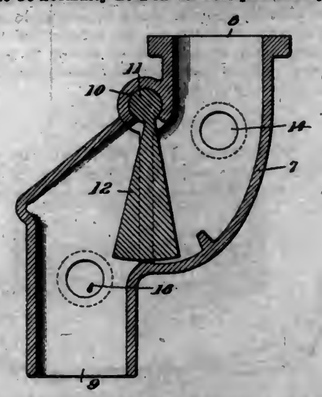


1. A knit fabric comprising three threads one of which is formed into a regular series of uniform knitted loops and each of the other two of which is formed into a series of uniform knitted loops of a size substantially the same as the knitted loops of the first named thread, the knitted loops of the two last named threads overlying alternate and different knitted loops of the first named threads, and the knitted loops of each of the two last named threads being separated by pile loops of uniform size extending to one and the same side of the resulting fabric.

1,749,246. CHARGE-HEATING CONTROL FOR INTERNAL-COMBUSTION ENGINES. JACOB RICHARD FRANCIS, Flint, Mich. Filed Sept. 21, 1922. Serial No. 589,552. 1 Claim. (Cl. 137—152.)

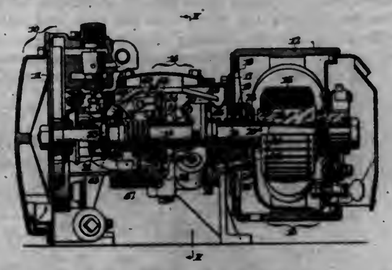
A valve of the kind described comprising a valve casing having inlet and outlets out of vertical alignment to form an elbow-shaped casing, said valve casing being provided

with a cylindrical horizontally disposed bearing at the junction of the passages, a valve having a cylindrical pivot at one edge detachably mounted in said bearing and adapted to be normally held in vertical position by gravity,



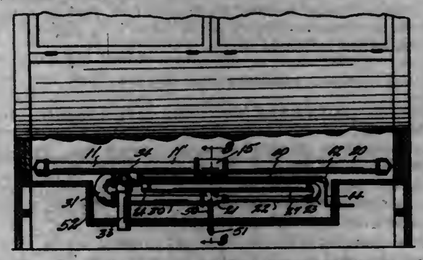
said valve pivot being slidably mounted within said bearing and a removable cover for said valve casing for holding said pivot within said bearing and to allow said valve to be removed therefrom.

1,749,247. LUBRICATING SYSTEM. HERBERT J. GRAHAM, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 14, 1922. Serial No. 568,154. 6 Claims. (Cl. 184—11.)



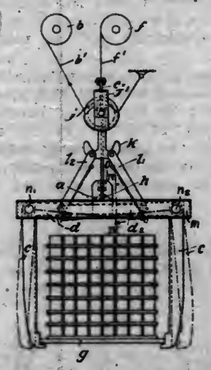
2. In a turbo-generator, the combination of a rotary shaft and a bearing therefor, means at one side of the bearing affording an annular oil-receiving cavity around the shaft with discharge through the bearing, means for raising and delivering oil from the reservoir to said cavity, and means affording an annular oil-receiving cavity at the other side of the bearing, with discharge back to the reservoir.

1,749,248. OIL BURNER. LOUIS D. HOULIS, Dallas, Tex. Filed Nov. 14, 1927. Serial No. 233,282. 2 Claims. (Cl. 158—61.)



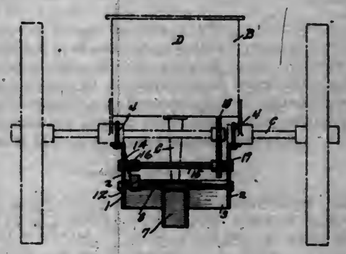
1. In an oil burner, a pair of substantially parallel burners connected at their ends and intermediate thereof, a generator tube extending longitudinally at one side of the burner tubes and having a vaporizing element therein, a secondary gas burner beneath the generator and parallel with the burner tubes, a mixing chamber communicating with the discharge from the generator and having an air intake, a gas conductor from said chamber extending parallel to and beneath one burner tube and having a connection therewith at substantially its midlength, and a reduced conductor extended from said connection and communicating with the secondary burner at the intake end of the generator tube.

1,749,249. HANDLING AND TRANSPORT OF BUILDING BLOCKS AND THE LIKE. JOHAN VAN ITEM, Bremen, Germany. Filed Aug. 8, 1927, Serial No. 211,576, and in Germany Nov. 30, 1926. 2 Claims. (Cl. 294—106.)



1. Lifting tackle for handling and transporting moulded building blocks such as slag bricks, sand lime bricks, tiles, paving blocks and the like, comprising a pair of pivotally mounted jaws, means for rocking the jaws about their pivots towards and away from one another to engage and disengage a load, and an arresting block for limiting the motion of the lower ends of the jaws towards each other, when the lifting tackle is used for lifting without gripping, as and for the purpose set forth.

1,749,250. ATTACHMENT FOR SEED PLANTERS. ROBERT M. JACKSON, Lake Creek, Tex. Filed May 19, 1927. Serial No. 192,731. 1 Claim. (Cl. 111—51.)



A seed dropping attachment adapted to be suspended from the axle of a standard planter below the spout of the usual seed hopper thereof, comprising a broad, flat, transverse, downwardly extending apron-like supporting frame member, having upwardly extending side bars integral therewith, means for detachably securing said bars to the axle of the planter, an intermittent delivery chute positioned beneath the spout of the seed hopper comprising a box having its rear vertical wall rigidly secured in engagement with the said apron for the major portion of its length whereby a firm support is obtained, an oscillat-

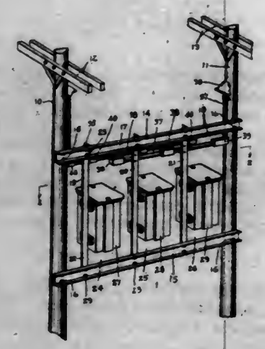
ing shaft extending through the side walls of the delivery chute box and journaled in the side bars of said apron, a flap valve within said box and mounted on said oscillating shaft, resilient means tending to hold the flap valve in closed position, and a second shaft likewise journaled in the said side bars and actuated from the axle of the planter for intermittently oscillating the shaft carrying said flap valve for depositing seed.

1,749,251. PROCESS FOR MAKING LUBRICATING GREASE. EDWIN N. KLEMGARD, Holly Oak, Del. Filed Mar. 17, 1927. Serial No. 176,301. 5 Claims. (Cl. 87—9.)

1. The process of manufacturing lubricating-grease which comprises mixing aluminum stearate with paraffine oil, heating the mixture to 335° F. to 550° F. and maintaining this temperature until the mixture is practically dehydrated and the normal stringy texture destroyed, then cooling without appreciable agitation, substantially as described.

5. The process of manufacturing lubricating-grease which comprises mixing from 5 to 25% by weight of aluminum stearate with 95 to 75% of paraffine oil, heating the mixture to 335° F. to 550° F. and maintaining this temperature until the mixture is practically dehydrated and the normal stringy texture destroyed, then cooling without appreciable agitation.

1,749,252. TRANSFORMER SUPPORTING STRUCTURE. EDMOND J. LE BLOND, St. Paul, Minn. Filed Aug. 20, 1927. Serial No. 214,385. 5 Claims. (Cl. 248—30.)



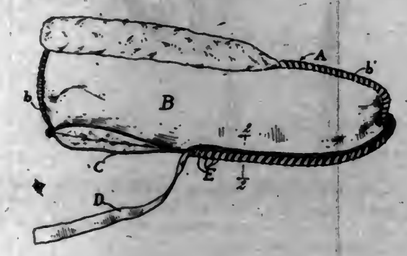
2. In combination with a pair of spaced poles, a pair of horizontally spaced beams secured to said poles and displaced laterally from the axis of said poles, a hanger secured to said beams and displaced laterally from said beams, said hanger being displaced in a direction opposite to the direction of displacement of said beams from said poles, and an attaching member secured to said hanger.

1,749,253. POURING SPOUT. LÉO LÉVY, Paris, France. Filed Feb. 5, 1927, Serial No. 166,170, and in France Feb. 9, 1926. 5 Claims. (Cl. 221—27.)



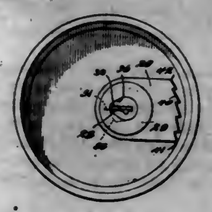
1. A pouring device for vessels containing liquids comprising a tubular member mounted on the vessel, a tubular pouring member proper mounted with annular clearance within said first member, said first member having a flare at its outer end to form a gutter between said two members, said annular clearance being such as to form a passage whereby drips of liquid collecting in the gutter are continuously returned to the interior of the vessel by capillarity, said second member having in it an opening, whereby liquid is also returned directly into the vessel from said gutter by gravity.

1,749,254. FOOTWEAR AND PROCESS OF MAKING THE SAME. MORRIS LIPPERT, New York, N. Y. Filed Sept. 8, 1928. Serial No. 304,722. 2 Claims. (Cl. 36—16.)



1. Footwear, comprising a flexible upper and a flexible sole, the bottom edge of the upper being turned outwardly in the form of a flange having a perimeter to coincide with the perimeter of the sole and seating against the inner face of said sole adjacent its perimeter, a binding element of substantially U-shape cross section straddling said contacting portions of the upper and the sole, and stitching extending through the binding element, the flange of the upper and the sole, and in over and over fashion around the arms and bight of the U-shaped binding element.

1,749,255. CLOSURE LOCK. ELMER W. MCGHAN, Salt Lake City, Utah. Filed Oct. 13, 1928. Serial No. 312,348. 9 Claims. (Cl. 70—14.)

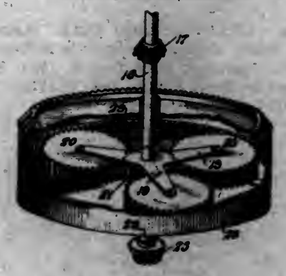


1. In a rotating closure lock, a locking barrel having a key controlled cylinder, a cam secured to the rotating cylinder but having relative rotation therewith, said cam having a series of teeth at its free surface, said teeth being struck on an arc having its center offset with respect to the center of the cylinder.

1,749,256. AIRPLANE CONTROL MECHANISM. MILO MORRILL, Provo, Utah; Jesse J. Morrill administrator of said Milo Morrill, deceased. Filed Feb. 15, 1926. Serial No. 88,849. 2 Claims. (Cl. 244—29.)

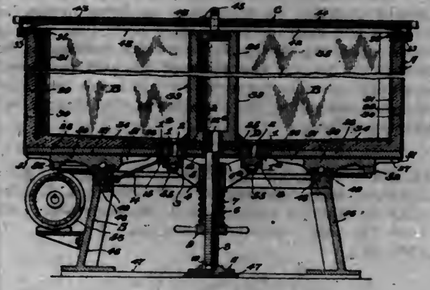
1. An airplane control operating mechanism comprising in combination, a manually operated member, a shaft rotatable by said member, a gear wheel on said shaft, a casing provided with internal and external series of gear teeth, the said external series meshing with the gear on the shaft aforesaid, a second shaft upon which the said

casing is mutually rotatable, gears mounted upon the ends of said second shaft and engaging the internal gearing of said casing, jack shafts each of which bears a gear engaged by the gears upon the said second shaft and an-



other gear upon each of said jack shafts, the last named gears engaging other gears which actuate arms, the said arms being operatively connected to movable parts of the airplane.

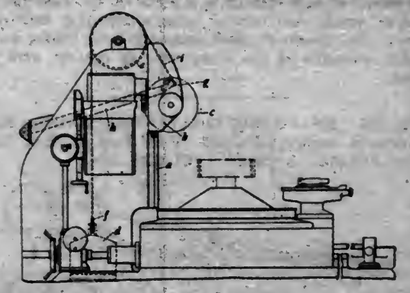
1,749,257. PASTEURIZING APPARATUS. CORNELIUS MORTENSEN, Louisville, Ky. Filed Jan. 26, 1927. Serial No. 163,798. 14 Claims. (Cl. 137—21.)



1. In a pasteurizing apparatus, the combination with a rotary holder having compartments contained within a common insulating wall, of non-foam producing valve means arranged at the bottom of said holder for controlling the filling, holding and discharging of the contents of said compartments, said means comprising a two-part valve device including superposed ring members each having flat engaging faces located at the bottom face of the holder, one of said rings being carried with the bottom of the container and having a plurality of openings and the other of said parts held in a nonrotating position and having inlet and discharging means.

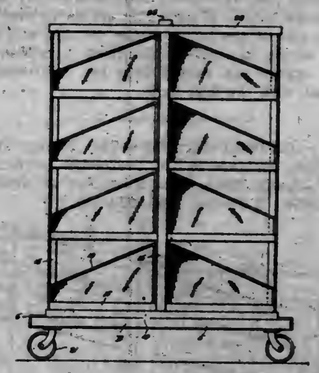
1,749,258. GRINDING MACHINE AND OTHER MACHINE TOOL. ARTHUR HITCHCOCK ORCUTT and JOHN WILDSMITH SHARRY, Birmingham, England, assignors to The Gear Grinding Company Limited, Birmingham, England. Filed Jan. 16, 1929, Serial No. 332,965, and in Great Britain Jan. 24, 1928. 1 Claim. (Cl. 51—52.)

In grinding and other machine tools, the combination comprising a vertical guide, a slide movable on said guide, a bell crank lever pivoted on the slide, a balance weight, flexible means for securing the balance weight to one end of the bell crank lever, and a radius rod having one end



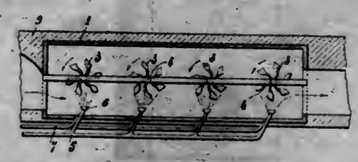
attached to a fixed pivot, the other end of the radius rod being attached to the other end of the bell crank lever, substantially as described.

1,749,259. MOBILE DISPLAY RACK. JOHN B. PITTS, Louisville, Ky. Filed Dec. 5, 1928. Serial No. 328,847. 2 Claims. (Cl. 211—189.)



1. In combination, a mobile base, a standard rising from the base, a tube revoluble on the standard, a plurality of spaced collars on the tube, bars radiating from the collars and tubes, and being T-shaped in cross section, and having notches at their outer ends, uprights of T-shape in cross sections, having flanges in said notches, arcuate bars between the uprights, shelves resting on said first and second mentioned bars between said uprights, a plurality of partitions resting on the first mentioned bars between the tube and the respective uprights, an annular track fixed to said base concentric with said standards, and wheels on the lowermost arcuate bars ridable on said track.

1,749,260. DEVICE FOR REMOVING SOLID PARTICLES FROM FLUE GASES. MARCEL PRÉTOT and FRANÇOIS ULLMANN, Mulhouse, France. Filed Dec. 5, 1927, Serial No. 237,926, and in France Dec. 4, 1926. 2 Claims. (Cl. 261—89.)



1. In a heating plant, a device mounted at a suitable point in a flue for removing the solid particles from the

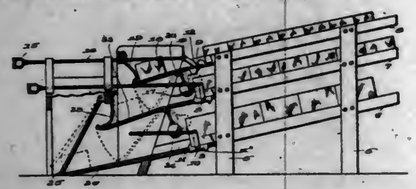
fine gases, comprising, in combination, a turbine having a plurality of blades formed with many perforations, means for projecting by compressed air a cleaning fluid against the blades of said turbine in a direction to cause the turbine to rotate, said turbine being so mounted with reference to the stream of gases that only those blades moving in the direction of the gases come in contact with said gases.

1,749,261. MEANS FOR LIGATING ARTERIES. SIMON RHEISLER, Indianapolis, Ind. Filed June 4, 1928. Serial No. 282,573. 8 Claims. (Cl. 128—334.)



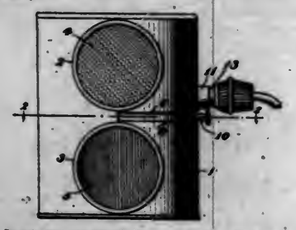
1. In a ligating instrument, means for grasping an end of a member to be tied, a thread looped around said grasping means and crossed to form a second loop for a double knot, means for grasping the thread in the second loop, means for grasping it beyond the second loop, means for transferring the loops from the grasping means to the member to be tied, and means for consecutively tightening the two loops having a spreading action in one direction to tighten one of the loops on the member and having a spreading action in a reverse direction to release the first loop and engage the second loop for tightening into a double knot with the first loop.

1,749,262. ICE-DELIVERY DEVICE. ROBERT H. ROARK, Waco, Tex., assignor to The Perfection Ice Scoring Machine Company, Waco, Tex. Filed Mar. 12, 1928. Serial No. 260,866. 5 Claims. (Cl. 193—31.)



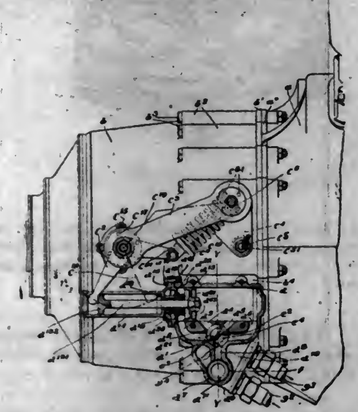
1. In an ice delivery device having a plurality of superimposed gravity chutes with a common delivery passage; a yieldingly mounted slide for delivering blocks of ice from the lower end of an upper chute to a chute below, said slide being normally raised from the path of ice blocks on the lower chute to allow free passage of ice along the chute below, and capable of being lowered by the weight of a block of ice on the upper chute, the slide when in lowered position offering no obstruction to blocks on the upper chute.

1,749,263. SIGNAL. PATRICK J. ROONEY, Sugar Notch, Pa. Filed Aug. 21, 1929. Serial No. 387,480. 1 Claim. (Cl. 116—45.)



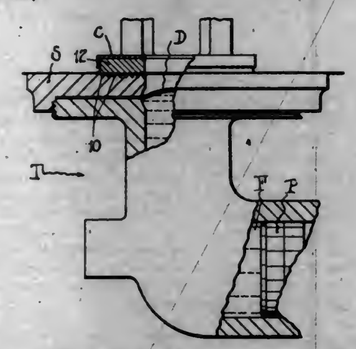
A signal lantern comprising a body having a slot in its side intermediate its top and bottom, lens tubes projecting from the body, a source of illumination within the body, and a ring fitting closely but slidably within the body and having an opening and provided with a handle element extending through the slot in the body whereby the ring may be shifted to obscure a lens tube or to bring the opening in the ring into axial alinement with the lens tube.

1,749,264. CHANGE-SPEED GEAR. ARTHUR JOHN ROWLEDGE, Derby, England, assignor to Rolls-Royce Limited, Derby, England. Filed Dec. 8, 1924, Serial No. 753,692, and in Great Britain Dec. 4, 1923. 2 Claims. (Cl. 74—107.)



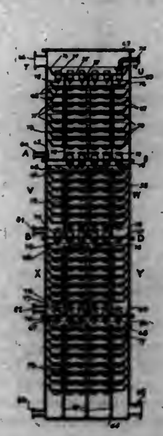
1. An engine controlled by a throttle valve and including a shaft rotatable from either of two different predetermined positions to the other, operating means connected to said shaft, a spring toggle mechanism connected to said operating means and normally tending to hold the shaft in one or the other of its said positions, a servo-motor operably connected to said toggle mechanism, and means controlling the operation of said throttle valve and servo-motor.

1,749,265. TESTING MACHINE. SAMUEL N. SENNA, Chicopee, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a Corporation of Massachusetts. Filed June 18, 1928. Serial No. 286,256. 3 Claims. (Cl. 265—14.)



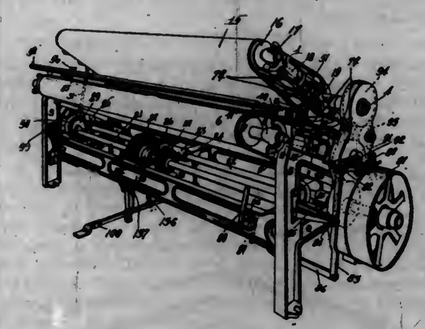
1. A machine of the class described comprising in combination, a platform member having a specimen supporting surface and a central aperture therethrough, a clamp member having a specimen engaging surface and a central aperture therethrough, the surfaces of said members being relatively yieldable and non-yieldable and one of said surfaces being provided with depressions whereby a specimen may be forced therein by the other surface.

1,749,266. BAFFLING DEVICE. WALTER SONTAG, Baden, near Vienna, Austria. Filed Jan. 9, 1928. Serial No. 245,523. 4 Claims. (Cl. 261—113.)



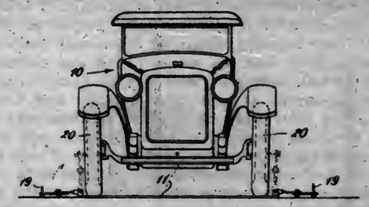
1. In a device of the character described, an exterior shell, a plate within the shell, holes and dishes in the plate, holes in the upper part of the dishes, means adapted to deliver elastic fluids containing suspended liquids and solids under the plate, means adapted to remove elastic fluid from above the plate, means adapted to remove liquids with solids from under the plate, so that the elastic fluid containing suspended liquid and solids passes through the holes and around the dishes in the plate in upward direction and suspended liquid and solids are separated, gathered and directed down to points under the dishes.

1,749,267. LEATHER GRAINING, BOARDING, AND SOFTENING MACHINE. JOHN E. SPENCER, Salem, Mass. Filed Sept. 6, 1928. Serial No. 661,188. 18 Claims. (Cl. 149—19.)



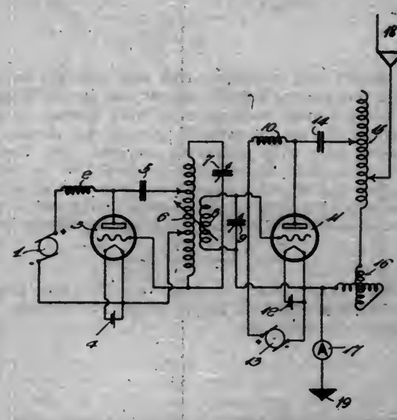
18. In a machine of the class described, a plate having a bead along one edge, a pair of rods for supporting said plate, a guide through which each rod slides to raise and lower said plate, means for sliding said rods, and springs reacting between the edge of said plate opposite to said bead and said sliding means to prevent cramping of said rods in said guide.

1,749,268. WHEEL-ALIGNING GAUGE. LLOYD GERMAN TAYLOR, Allentown, Pa. Filed Apr. 6, 1927. Serial No. 181,316. 8 Claims. (Cl. 33—203.)



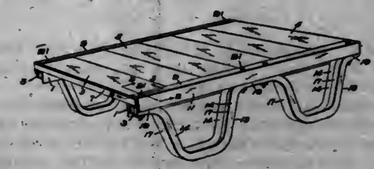
1. A vehicle wheel aligning device comprising a frame to be placed transversely of and beneath the wheels so as to be positioned thereby, arms connected to said frame and projecting beyond the outer surfaces of the wheels and means on said arms adapted to engage diametrically opposite points on the outer surfaces of the wheels.

1,749,269. EXTERNALLY-CONTROLLED TUBE TRANSMITTER. FRIEDRICH TRAUTWEIN, Berlin-Zehlendorf, Germany, assignor to the Firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. Filed Sept. 17, 1926, Serial No. 136,178, and in Germany Oct. 17, 1925. 4 Claims. (Cl. 250—17.)



1. In an arrangement for externally controlled high frequency transmitter, comprising a controlling oscillation generator, an amplifier with an input and an output circuit, means in said output circuit to tune it to the transmitter frequency and means in said input circuit to prevent reaction from said output circuit, comprising a circuit tuned to a harmonic of the transmitter frequency.

1,749,270. SKID. CLARENCE H. YOUNG, Boston, Mass. Filed Jan. 10, 1928. Serial No. 245,716. 2 Claims. (Cl. 248—41.)



1. A skid having, in combination, a pair of angle-irons at each side thereof, the respective angle-irons of each

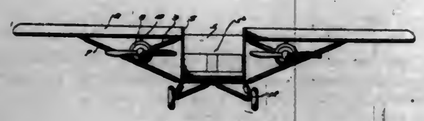
pair having vertically spaced horizontal webs the lower of which is directed toward the side edge of the skid and the upper of which is directed toward the center of the skid, said angle-irons having downwardly directed vertical webs, channel-irons bent to form a plurality of U-shaped legs; adjacent sides of said legs being connected to each other at their tops by elongated horizontal portions of the channel-irons, and the sides of said legs nearest the ends of the skid having at their tops connected elongated horizontal portions of said channel-irons; said channel-irons having their webs horizontally disposed and their flanges vertically disposed at said portions, said flanges fitting the space between the vertical webs of said angle-irons and contacting therewith, the vertical webs of the upper angle-irons extending over the major portion of the adjacent flanges of said portions of said channel-irons, and floor members having their ends inserted between the horizontal webs of said angle-irons.

1,749,271. GARDEN TOOL. GEORGE R. BELLAH, Los Angeles, Calif., assignor of one-half to E. J. Naffziger, Glendale, Calif. Filed Apr. 12, 1928. Serial No. 269,392. 1 Claim. (Cl. 97—58.)



In a garden tool the combination with a shovel having a pointed forward end and the upright rear portion of said shovel being curved laterally, of a strap secured to the rear face of the upright laterally curved rear portion of the shovel, said strap extending upwardly and thence forwardly from said shovel, a handle secured to the upper forward portion of said strap and the lower end of which strap is bent outwardly and rearwardly to one side of the shovel to form a combined gauge and support for the tool.

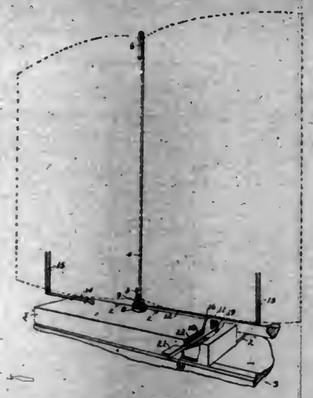
1,749,272. AIRPLANE. WILLIAM W. BIRD, San Diego, Calif. Filed Sept. 21, 1927. Serial No. 220,971. 4 Claims. (Cl. 244—14.)



1. In an airplane, a fuselage having a substantially flat bottom side, a blunt nose curved upwardly and backwardly, and an upper side tapered gradually from the forward end to a fin edge at the tail end, said fuselage having vertical vanes at the lateral edges of its upper surface, said vanes extending from said nose to the tail.

1,749,273. MUSIC-LEAF TURNER. NATE O. BOZELLE, San Jose, Calif. Filed Mar. 15, 1928. Serial No. 261,927. 1 Claim. (Cl. 84—493.)

A music leaf turner comprising a supporting case, a sheet-music supporting standard mounted therein and extending upwardly therefrom, a bearing formed in the top of the case in concentric relation to the standard, a hollow cylinder revolubly mounted in the bearing, a resilient connection between the cylinder and standard to urge the cylinder to rotate in one direction, a sheet-music supporting arm mounted on the cylinder concentrically with the standard, a detent mounted on the casing to engage said arm and hold the same against the urge of the resilient



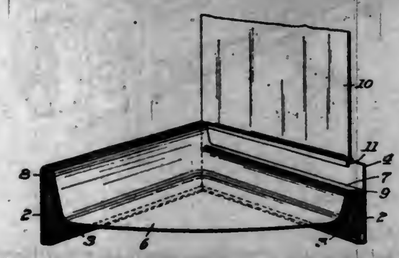
connection, a stop to limit the rotative movement of the arm when released by the detent, and a release for the detent.

1,749,274. DUMPING TRUCK TRAIN. RAY H. CRISLER, Glendale, Calif. Filed June 13, 1927. Serial No. 198,498. 1 Claim. (Cl. 298—22.)



A dumping truck train comprising a motor driven truck provided with a tiltably mounted body, a trailer provided with a tiltably mounted body, a draft device connecting the truck and trailer, fluid pressure operated mechanisms on the truck and trailer for tilting the respective bodies, said mechanisms including pumps, a transmission on the truck operably connected with the motor, a shaft operably connected with the pump on the truck, a gear splined on said shaft, a means to move the gear into and out of operative relation with the transmission, and a shaft operably connecting the pump on the trailer with the first mentioned shaft.

1,749,275. BUILT-UP SHOWER BATH. JOHN C. CROMWELL, Alliance, Ohio, assignor to The Steel Sanitary Company, Alliance, Ohio, a Corporation of Ohio. Filed June 23, 1928. Serial No. 287,668. 16 Claims. (Cl. 4—145.)



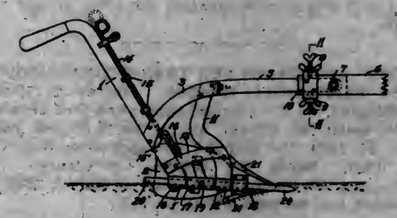
8. As an article of manufacture, a shower bath tub comprising a frame having sides of different heights, and a base having sides of different heights welded in position in the frame with the low sides of the base cooperating with the high sides of the frame to provide a substantially uniform overall height at all of the sides.

1,749,276. SHALLOW-WATER BOAT. JOHN T. EDMONDS, Fort Stockton, Tex. Filed Dec. 5, 1928. Serial No. 323,856. 2 Claims. (Cl. 115—1.)



1. In a boat of the class described, a pair of side plates arranged on the bottom, a pair of center plates arranged on the bottom, and a pair of intermediate plates between the side and center plates, oppositely disposed shafts journaled between the center, intermediate, and side plates on each side of the center plates, sprockets on the shafts, chains trained about the sprockets, plates supported between the chains to form caterpillars, one shaft being common to a pair of caterpillars at each side of the center of the boat, and independent driving means for the last mentioned shaft, the two outermost caterpillars extending farther rearwardly than the inner one and the inner one extending farther forwardly than the outer one.

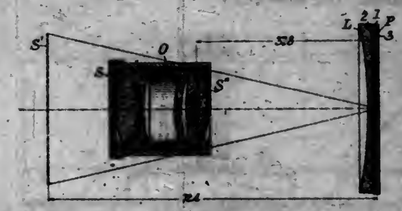
1,749,277. PLOW. PEDRO CARBONELL FIGUERAS, Habana, Cuba. Filed Mar. 17, 1928, Serial No. 262,416, and in Cuba Mar. 1, 1928. 1 Claim. (Cl. 97—31.)



A plow comprising a handle, a plow beam forked and curved downwardly at its rear end, a bearing formed at the lower end of the handle, a standard secured at the juncture of the forks and the beam, a bearing formed at the lower end of said standard, said bearing being in line with the bearing on the handle but spaced therefrom, a reinforcing brace connecting the handle and the standard, a plowshare, spaced bearings secured thereto, said latter bearings each being adapted to be positioned respectively in advance of the bearings on the handle and on the standard, a shaft passing through all the bearings to rotatably support the plowshare, a locking bolt carried by and movable with respect to the handle, and means on the plowshare with which the locking bolt may cooperate to secure the plowshare in either right or left position with respect to the handle.

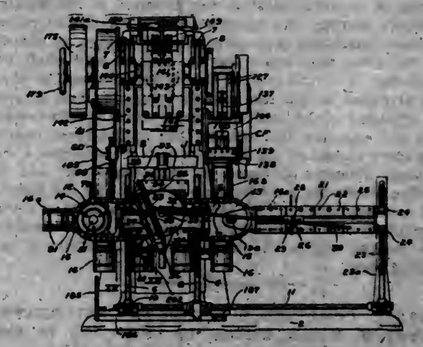
1,749,278. OPTICAL SYSTEM FOR USE IN PHOTOGRAPHIC COLOR PROCESSES. CHARLES W. HANDLEY, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 27, 1928. Serial No. 322,175. 10 Claims. (Cl. 95—2.)

10. Complementary optical systems for use in the taking and projecting of color photographs by the use of photographic layers having associated therewith numerous microscopic image-forming elements and comprising two objectives of different focal lengths, each system including one objective and a polychromatic screen associated therewith, and one system including a weak supplemental lens in front of its rear focal plane by a distance less than ten percent



of the focal length of the system, the positions of the screens in the systems being such that the virtual images thereof are of the same size and have the same positions relative to the rear focal planes of the systems.

1,749,279. CAN-MAKING MACHINE. GEORGE O. FROSTAD and JAMES E. ANNEN, Milwaukee, Wis., assignors to The National Paper Can Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 6, 1928. Serial No. 267,878. 42 Claims. (Cl. 113—27.)



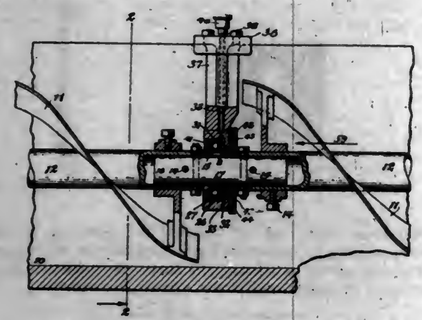
1. A can making machine comprising a mandrel, means for moving the same in an orbital path, means for feeding a can body to the mandrel during such movement, means for feeding a cap to the body, means for forming a closure joint between the cap and the body, and safety means lying alongside the path whereby the mandrel moving means may be stopped if the can is not removed from the mandrel before it starts another cycle.

1,749,280. TYING DEVICE. ELMER PERRY GUMMO, Monument, Pa. Filed May 16, 1929. Serial No. 363,667. 3 Claims. (Cl. 24—18.)



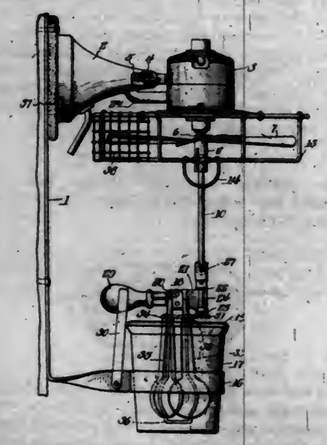
3. In a device of the character described, a plate having up-turned ends and also having up-turned wings, two brackets secured upon the plate, said brackets having slots therein so positioned relative to said wings as to facilitate the guiding of twine to the slots, levers pivoted in the brackets, each lever having a locking hook formed therewith, a lug projecting upward from the plate, a knife secured upon said lug and a guide secured upon the knife for facilitating the cutting of the twine while held by the hooks.

1,749,281. ROLLING BEARING. EDWIN HAMBLETON, Kenmore, N. Y., assignor to The Transmission Ball Bearing Company Inc., Buffalo, N. Y., a Corporation of New York. Filed Mar. 11, 1927. Serial No. 174,658. 4 Claims. (Cl. 309—189.)



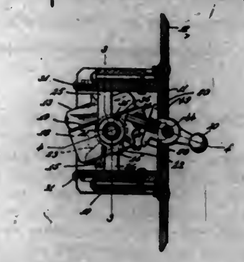
1. A bearing for a shaft, comprising a housing having a bore through which the shaft passes and which is composed of a portion of large diameter and a portion of small diameter, a rolling unit arranged around the shaft and within the large diameter portion of said bore and consisting of an outer bearing ring mounted in the housing, an inner bearing ring mounted on the shaft and rolling members interposed between said bearing rings, an adapter for mounting said inner bearing ring on said shaft and consisting of a split conical sleeve surrounding the shaft and arranged within the inner bearing ring and a screw nut arranged in the small diameter portion of said housing bore and engaging the adjacent end of the inner bearing ring and a thread on the adjacent part of the sleeve, a disk of large diameter arranged on said screw nut and extending across the joint between said nut and the housing and overlapping the front side of the housing, and a disk of small diameter arranged on the opposite end of the sleeve and located within the large diameter portion of said housing bore.

1,749,282. COMBINED ELECTRIC FAN AND BEATER. HUGH W. HARRIS, Chicago, Ill. Filed July 16, 1928. Serial No. 293,001. 6 Claims. (Cl. 259—104.)



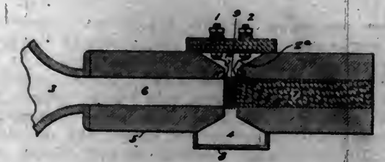
1. The combination of a base, an electric motor mounted on said base for adjustment into horizontal and vertical positions, a coupling on the motor, a support on said base below the motor, a receptacle on said support, a beater unit adapted to rest upon said receptacle, said unit comprising an upwardly extending coupling, a shaft adapted at its ends for engagement with said couplings, and a retainer on the motor to support the upper end of the shaft when the latter is disengaged from the motor coupling.

1,749,283. SWITCH MECHANISM. GEORGE HEGEMAN HART, West Hartford, Conn. Filed Apr. 29, 1927. Serial No. 187,594. 8 Claims. (Cl. 200—67.)



1. In a switch mechanism, a base, a pair of sheet metal conductors fixed thereto and having aligned openings, a support pivoted between said conductors and having studs extending into said openings, one of said studs having a bearing in one of said openings, a mercury tube on said support and having depending electrodes extending therethrough at a distance from said studs, a sheet metal contact connected to one of said electrodes extending upwardly at one side of said support and engaging one of said conductors, and a sheet metal contact connected to the other of said electrodes extending upwardly at the other side of said support and engaging the other of said conductors.

1,749,284. APPARATUS FOR TRANSFORMING SOUND INTO ELECTRICAL ENERGY. HARVEY C. HAYES, Washington, D. C. Original application filed June 30, 1924, Serial No. 723,427, Patent No. 1,729,383, dated Sept. 24, 1929. Divided and this application filed Nov. 11, 1927. Serial No. 232,701. 9 Claims. (Cl. 179—121.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. An apparatus for transforming sound into electrical energy, comprising a sound concentrating means, a magnet having circular pole pieces, one of said pole pieces being hollow, a magnetic gap between said pole pieces, means for protecting said magnetic gap from extraneous interferences and a coiled filamentary conductor suspended freely between the two pole pieces.

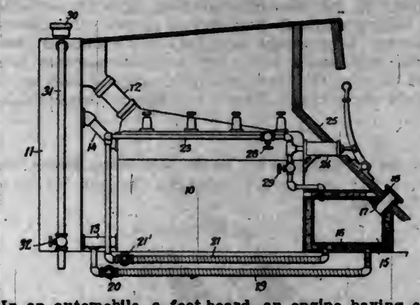
1,749,285. APPARATUS FOR TRANSFORMING SOUND INTO ELECTRICAL ENERGY. HARVEY C. HAYES, Washington, D. C. Original application filed June 30, 1924, Serial No. 723,427. Divided and this application filed Nov. 11, 1927. Serial No. 232,702. 10 Claims. (Cl. 179—121.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

1. An apparatus for transforming sound into electrical energy, comprising a sound directing means, a magnet having pole pieces, one of said pole pieces being hollow and in sonic communication with said directing means, a magnetic gap between said pole pieces, a filamentary con-



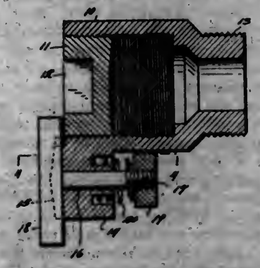
ductor suspended within said magnetic gap and adapted to receive directly the impulses from said sound directing means and means for exerting a tension upon said filamentary conductor.

1,749,286. NONFREEZING DEVICE FOR AUTOMOBILES. ROSCOE HILL, Clifford, Ind. Filed July 22, 1927. Serial No. 207,728. 2 Claims. (Cl. 123—174.)



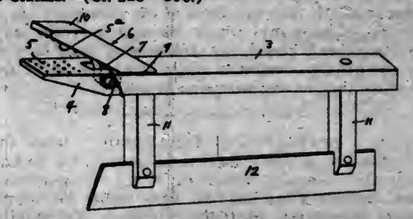
In an automobile, a foot-board, an engine having cooling chambers, a radiator for cooling the engine, a tank, a pipe extending upward from the tank adjacent the foot-board and then to a pipe connecting the upper part of the radiator to cooling chambers in the engine, a pipe leading from the bottom of the tank to a pipe connecting the lower part of the radiator with said cooling chamber of the engine, an air pump connected to said first-named pipe, and manually operable valves above and below the point of connection of said pump to said pipe.

1,749,287. PLUG RETAINER. FREDERICK W. JACKSON, Needles, Calif. Filed Dec. 27, 1928. Serial No. 328,789. 3 Claims. (Cl. 220—39.)



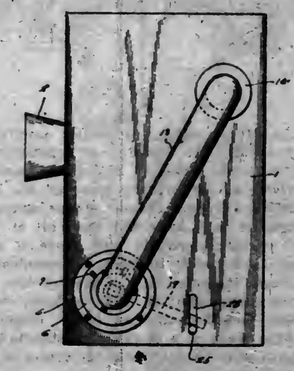
1. In a device of the character described, a tubular member, a plug engaged therewith and means for retaining the plug against accidental displacement comprising a lug projecting from the tubular member and having a wall extending substantially radially with reference to the plug, the stem extending through said lug and carrying a head at its outer end, a spring urging the stem in a direction to carry the head toward the lug, the head being rotatable into a position parallel with the wall of the lug or at right angles thereto when the head and the stem are lifted against the action of the spring, the outer face of said wall being inclined from its middle in opposite directions.

1,749,288. SHEEP KNIFE. JAMES L. KING and ROBERT L. VANCIL, Darlington, Idaho; said King assignor to said Vancil. Filed Apr. 10, 1929. Serial No. 354,065. 3 Claims. (Cl. 128—306.)



1. A sheep knife comprising a handle, a pair of longitudinally spaced right angularly extending arms carried by said handle and bifurcated at their free ends, a knife disposed in spaced parallelism with said handle and fastened between the furcations, one end of said handle being fashioned to provide a stationary clamping jaw, and a relatively movable jaw pivoted on said handle and cooperable with said stationary jaw.

1,749,289. TELEPHONE-RECEIVER MOUNTING. KAZUO KODAMA, Petersburg, Territory of Alaska. Filed Aug. 13, 1928. Serial No. 299,306. 6 Claims. (Cl. 179—149.)



1. In a receiver for wall type telephones wherein the same includes a casing, an elongated megaphonic arm, a shell secured to one side of the casing, a magnetic vibratory unit attached to the reduced end of said arm and being swivelly disposed within the said shell, and complementary stop means between the arm and the shell, whereby the arm may be supported in a definite position outwardly of the casing, a switch structure for opening and closing the telephonic circuit, and means between the arm and the switch whereby the latter is operated by the movement of the arm.

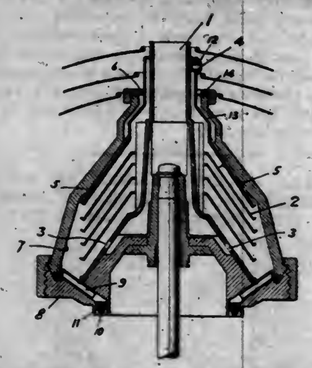
1,749,290. VALVE FOR GAS RANGES. FRANK J. LIBSKE, Detroit, Mich., assignor, by direct and mesne assignments, of one-half to Harry W. Gilberg and one-fourth to John F. La Grant, Detroit, Mich. Filed Aug. 31, 1927. Serial No. 216,757. 2 Claims. (Cl. 251—164.)



1. In a valve for gas ranges, a valve body having a pair of upwardly extending spaced guide lugs, a valve member

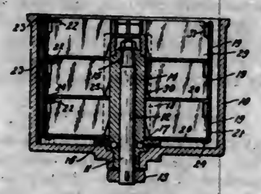
rotatably mounted in the body, a pin carried by the valve member and extending between the lugs to limit turning movement of the valve member, an annular member having notches fitting over the guide lugs, one notch being greater in width than the width of the companion lug and providing a space into which the said pin may extend when the valve is closed, the arrangement being such that when the annular member is moved upwardly on the guide lugs above the pin the valve may be opened.

1,749,291. CENTRIFUGAL SEPARATOR. HANS OLOF LINDGREN, Appelviken, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 24, 1928, Serial No. 301,829, and in Sweden Oct. 26, 1927. 5 Claims. (Cl. 233—28.)



1. The combination with a revoluble separator bowl provided with an inlet for a mixture of centrifugally separable materials, of a series of superposed conical discs adapted to divide the separating space of the bowl into strata and afford an open annular sludge space between the outer edges of said discs and the wall of the bowl, the top disc providing outside and above it an outlet channel whose inlet end is in direct communication with the space adjacent the outer edge of the top disc, an outlet affording direct communication with the inner ends of the spaces between the discs and an outlet communicating with said sludge space at a distance substantially greater than the edge of said top disc from the center of rotation.

1,749,292. EXTRACTOR BASKET. ALLAN G. MACDONELL, Philadelphia, Pa. Filed July 24, 1929. Serial No. 380,572. 8 Claims. (Cl. 210—76.)



1. A centrifugal drier including a stationary housing, a basket spindle arranged to rotate in said housing, a plurality of foraminated receptacles fitted into said housing and placed one on top of the other, and coacting means on said receptacles and said spindle for causing the same to rotate together.

1,749,293. AEROPLANE WING RIB. CALEB J. MARSTON and PERLEY W. ORDWAY, Loudon, N. H. Filed July 24, 1929. Serial No. 380,637. 1 Claim. (Cl. 244—31.)

An aeroplane wing rib of the character described comprising a pair of longitudinal members connected at their ends and being vertically spaced apart at their intermediacies, and transversely disposed strengthening bars interposed between the said longitudinal members, each of said longitudinal members comprising a pair of spaced parallel rails, longitudinally spaced blocks secured between the rails at points intermediate the strengthening bars for spacing the rails a predetermined distance apart, pairs of crossed bracing members arranged diagonally be-



tween the said strengthening bars with their end portions interposed and secured between the rails of the longitudinal members adjacent the opposite sides of the end portions of the strengthening bars, said strengthening bars being reduced at their ends to provide extensions for disposition between the said rails and laminated plates having their upper and lower marginal portions interposed between the upper and lower pairs of rails at the opposite end portions thereof, and secured therebetween.

1,749,294. BRASSIÈRE. BETTY MCDANIEL, Dallas, Tex. Filed Aug. 30, 1928. Serial No. 302,938. 1 Claim. (Cl. 2—42.)

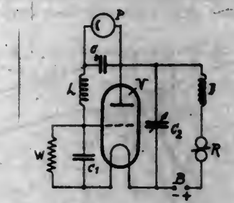


A brassière embodying a pair of substantially rectangular and similar lower members of uniform width having convex upper edges and concave lower edges and having their inner ends secured together, said upper and lower edges being struck on substantially the same arc and being of slight and regular curvature from end to end of the members, said inner ends diverging downwardly with respect to each other, a pair of substantially rectangular and similar end members having outwardly tapering upper and lower edges secured at their inner ends to the respective outer ends of the lower members and conforming to and forming continuations thereof, an elastic member secured to the outer end of one of said end members, means to connect said elastic member to the outer end of the other end member, and a pair of substantially similar and triangular members having their base portions substantially convex and of approximately the length of each of said pair of lower members, and having their sides of equal length, said convex lower edges of the triangular members being struck on arcs of materially less radii than the arcs on which the said curved edges of the lower members are struck and being each secured to the convex upper edge of the adjacent lower members to provide a substantially convex pocket, and shoulder straps secured to the apices of said triangular members and to said end members.

1,749,295. CONTROL SYSTEM FOR OSCILLATION CIRCUITS. GERHARD MESERTOMPF, Spandau, near Berlin, Germany, assignor to the Firm Dr. Erich F. Huth Ges. m. b. H., Berlin, Germany. Filed June 14, 1924, Serial No. 720,106, and in Germany May 15, 1923. 9 Claims. (Cl. 250—36.)

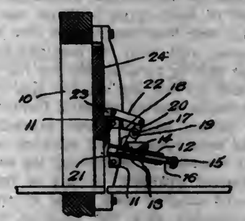
1. The combination with an oscillation circuit comprising an oscillation generator having a plate, grid and fila-

ment, an input circuit including said grid and filament, an output circuit including said plate and filament, an inductance and a condenser disposed between said input



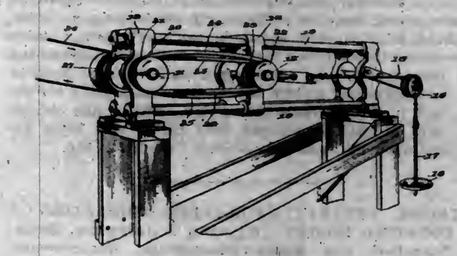
and output circuits and a photo electric cell connected to said condenser so that variations in the illumination of said cell will control the amplitude of oscillations of said circuits.

1,749,296. SAFETY DEVICE FOR PAPER CUTTERS. ANDREW T. MOYER, Philadelphia, Pa. Filed July 14, 1927. Serial No. 205,613. 5 Claims. (Cl. 74—105.)



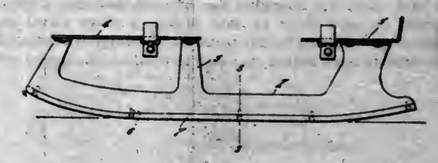
4. A device of the kind described, brackets for securement to the frame of a machine having a reciprocating element, said brackets having guideways therein, a frame reciprocatingly mounted in the guideways, a buffer bar carried by the frame, extensions formed with the brackets, a shaft mounted in said extensions, levers journalled on said shaft, links pivoted to the lower ends of the levers and to the frame and other links pivoted to the upper ends of the levers to the reciprocating element of the machine whereby motion will be transmitted from said reciprocating element to the frame and buffer bar.

1,749,297. PROCESS OF AND APPARATUS FOR TESTING BELTS. CARL A. NORMAN, Columbus, Ohio. Filed Jan. 21, 1929. Serial No. 333,935. 19 Claims. (Cl. 73—51.)



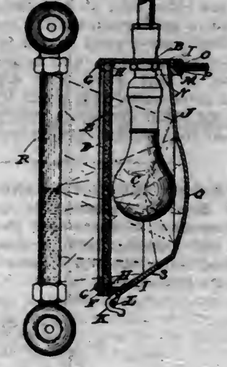
1. A method of testing belts, including the operation on a single shaft, of two similar belts to be tested, which comprises, operating one of said belts with slip so that it tends to accelerate the shaft, operating the other of said belts with slip so that it tends to decelerate said shaft, and utilizing the power taken off the shaft by said decelerating belt, augmented by sufficient power to supply the drive losses, to drive the accelerating belt.

1,749,298. ICE SKATE. MAXIMILIAN J. ORAVSIK, Chicago, Ill. Filed Nov. 26, 1928. Serial No. 321,959. 1 Claim. (Cl. 208—172.)



In a skate, a runner formed with a longitudinally extending groove in the bottom face thereof and further having longitudinally spaced threaded sockets in the groove, an ice engaging strip fitting against the bottom face of the runner, a longitudinally extending rib on the strip for disposition in the groove of the runner, said strip being provided with vertical openings for registering with the threaded sockets, and securing screws extending through the openings in the strip and threaded into the respective sockets to rigidly secure the strip on the runner, the side faces of the strip forming a continuation of the respective side faces of the runners.

1,749,299. GAUGE LIGHT. GEORGE W. OSBORN, Cleveland, Ohio. Filed Feb. 15, 1926. Serial No. 88,334. 2 Claims. (Cl. 240—2.)



1. In an illuminating device for a water gauge tube, the combination with a vertical gauge tube of a lamp and a vertically elongated casing therefor, said casing being provided with a vertical elongated slot in its front wall and a glass thereover parallel with said gauge tube, the back wall of said casing being provided with a concave mirror opposite to said lamp, and opposite to the normal water level in said tube, and also provided with a vertical back wall and with vertical oblique side walls arranged to deflect the light of said lamp through said slot upon said tube, the bottom of said casing being inclined obliquely to the back wall to prevent the downward dispersion of the rays of light.

1,749,300. VALVE GRINDER. EDWARD HENRY PETERSON and WILLIAM H. ODLUM, Chicago, Ill., assignors to Duro Metal Products Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1927. Serial No. 216,042. 1 Claim. (Cl. 51—29.)

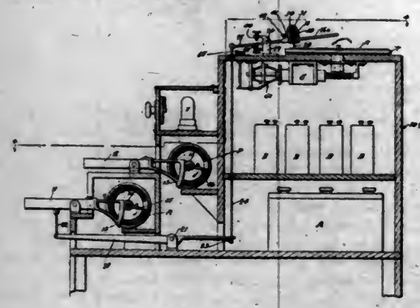
In a valve grinder, the combination of an elongated supporting casing having a pair of transverse bores with a valve actuating shaft rotatably mounted in one of said

bores and extending in the direction of the longitudinal axis of the casing, a counterbore about said shaft, a pair of washers in said counterbore, ball bearings between said washers in said counterbore, an annular shoulder carried by said shaft for engaging one of said washers, a pinion carried by said shaft in said casing, a sheet metal segmental gear having radial teeth on its periphery rotatably mounted in said casing in vertical position to engage said



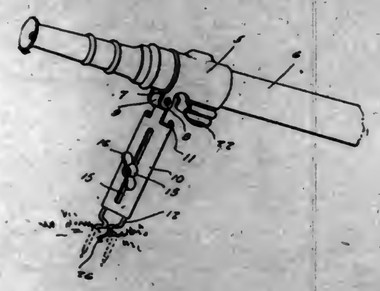
pinion at right angles thereto, a second shaft rotatably mounted in the other bore of said casing, a crank lever fixedly secured to said second shaft, a crank for actuating said second shaft, pivot posts riveted to said crank lever and to said segmental gear, and a connecting link pivotally secured to said crank lever and said segmental gear by said pivot posts, said crank lever being of less length than the radial distance of the pivot post on said segmental gear from the axis of said segmental gear.

1,749,301. SOUND PRODUCING AND CONTROLLING SYSTEM. ROY J. POMEROY, Los Angeles, Calif., assignor of one-half to Paramount Famous Lasky Corporation, Los Angeles, Calif., a Corporation of New York. Filed July 23, 1927. Serial No. 208,039. 7 Claims. (Cl. 179—100.4.)



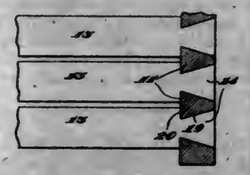
1. In a sound producing and controlling system, the combination of a plurality of independently controllable sound record operating means each adapted to move a sound record at independently selected speed, a reproducing element for each of such records, an amplifying system connectible with said reproducing elements, means for selectively throwing any selected reproducing element into operative relation with its respective record, and means controlled thereby for connecting that selected reproducing element with the sound amplifying means and for independently controllably varying the input from each reproducing element to the amplifying system.

1,749,302. NOZZLE SUPPORT FOR GARDEN HOSE. ANDREW M. RASMUSEN, Montrose, Colo. Filed Jan. 21, 1929. Serial No. 333,860. 1 Claim. (Cl. 248—29.)



A hose support of the character described comprising a longitudinally split clamp disposed about the hose with a portion of its split edges formed into a pair of spaced lugs, a retaining pin extending beneath said lugs for securing the same to each other, an adjustable leg composed of a pair of telescoping sections, one of said sections having its end bent about said pin and pivotally supported thereon, and with its longitudinal edges bent inwardly at one side to form guides for the other of said leg sections, said pivoted leg section also having a longitudinally extending slotted opening formed therein and said other leg section having a bolt extending therefrom for insertion in said opening and adapted for threadedly receiving a nut whereby to secure the leg sections in longitudinally adjusted position, a pair of opposed spring clips also formed on the split edges of the clamp and adapted for engaging said leg whereby to retain the same in folded position against the hose.

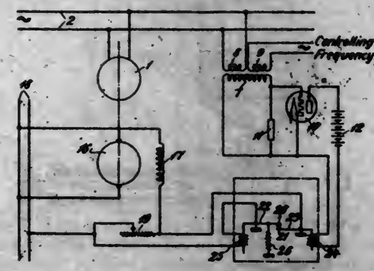
1,749,303. CRIBBING. JOSIAH B. RUTTER, Wakefield, Mass. Filed Feb. 13, 1928. Serial No. 253,819. 6 Claims. (Cl. 61—47.)



1. In a structure comprising a plurality of separable units having their ends alternately overlapping, an interlocking joint at said ends adapted to restrain relative movement therebetween in two dimensions, and consisting of inter-fitting faces including a pair of faces inclined to each other and a third face disposed in a plane oblique to said inclined faces and meeting along a line oblique to both of said dimensions, said three faces being arranged upon the same side of each interfitting end.

1,749,304. APPARATUS FOR SPEED REGULATION OF ROTATING BODIES. WILHELM SCHEPPMANN, Berlin-Tempelhof, and ADOLF EULENHÖFER, Konigswusterhausen, near Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Dec. 9, 1927, Serial No. 238,881, and in Germany Dec. 11, 1926. 2 Claims. (Cl. 171—119.)

1. In combination in a system for maintaining constant the speed of prime movers, a prime mover, a vibration regulator controlling a speed influencing circuit associated with said prime mover, means for deriving an electrical current having a frequency proportional to the speed of the said prime mover, further means for producing a controlling alternating current of substantially constant frequency, both currents being of equal frequency in a state of normal speed of said prime mover, means for superimposing said currents upon each other, for obtain-



ing a resultant current which varies in accordance with variations in the speed of said prime mover and means for applying said resultant current to said vibration regulator to vary the regulating conditions of said vibration regulator.

1,749,305. VEHICLE SIGNAL. FRANK W. SCHROEDER, Bemidji, Minn. Filed Nov. 4, 1927. Serial No. 231,183. 1 Claim. (Cl. 177—329.)



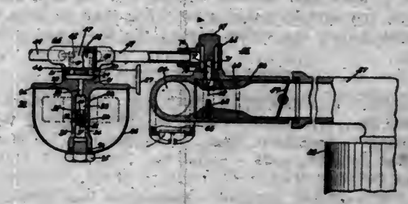
In a signal for automobiles a casing having downwardly converging side walls merging at the bottom of the casing, a top wall and front and rear walls, an annular partition wall mounted within the casing extending between the front and rear walls thereof, and engaging the opposite side walls of the casing for permitting the annular partition wall to be wedged in between the side walls for firmly anchoring the annular wall in position, the annular partition wall being supported in spaced relation to the top wall of the casing and in spaced relation with respect to the merged lower ends of the side walls for producing a plurality of light bulb receiving compartments, and bracing means constituting partitions interposed between the annular partition wall and the top wall of the casing, and lighting means positioned within the various compartments so formed.

1,749,306. LAWN-MOWER SHARPENER. JOSEPH D. SNOW, Bedford, Ind. Filed Feb. 4, 1929. Serial No. 337,362. 3 Claims. (Cl. 76—82.1.)



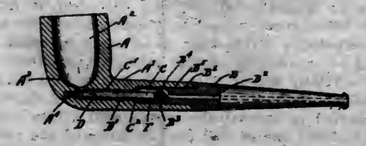
1. An implement for sharpening lawn mower blades, comprising a body portion which is U-shaped in cross section and provided at its closed edge with a notch and having a beveled guide face, and a sharpening element inserted within the body portion and projecting into the notch.

1,749,307. FUEL-CHARGING DEVICE. FRED E. ASHLINE, Dayton, Ohio, assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 29, 1924. Serial No. 746,659. 3 Claims. (Cl. 261—66.)



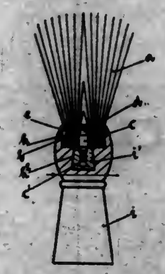
1. A charge forming device for supplying a mixture of air and liquid fuel to an internal combustion engine comprising: a mixture forming passage having an air inlet and a fuel inlet thereto, a fuel duct for leading liquid fuel to said fuel inlet, a main restricting orifice in said fuel duct for limiting the maximum flow of fuel therethrough, and a gravity actuated valve adapted to cooperate with said orifice, said valve having an aperture therein for limiting the flow of fuel through said fuel duct when said gravity valve is seated, and being of such predetermined weight that it is lifted from its seat by the liquid fuel stream at higher engine suctions.

1,749,308. PIPE FOR SMOKING TOBACCO. FRANK M. ASHLEY, Brooklyn, N. Y. Filed June 15, 1927. Serial No. 198,946. 5 Claims. (Cl. 131—12.)



4. A pipe comprising a bowl and stem, a mouthpiece having a passage therethru and removably attached to said stem and having a hole formed in its inner end, said stem having a passage extending from below the bowl to said mouthpiece and reduced in diameter at the bowl end of the pipe and increased in diameter at its opposite end, a filter of absorbent material having one end compressed and resting in said reduced portion of the passage and extending threthru into said hole in the mouthpiece and compressed and held by friction therein.

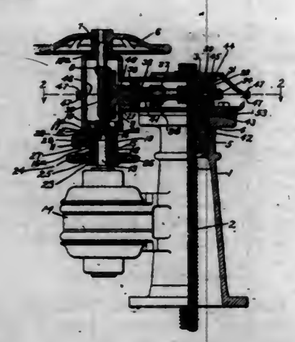
1,749,309. SHAVING BRUSH. SIGMUND BECK, Nuremberg, Germany. Filed Aug. 24, 1927, Serial No. 215,012, and in Germany Jan. 29, 1927. 6 Claims. (Cl. 15—191.)



1. A brush comprising a handle having a socket, brush bristles, an open-ended metal ferrule fitted in the socket and receiving the inner ends of the bristles, and a plug

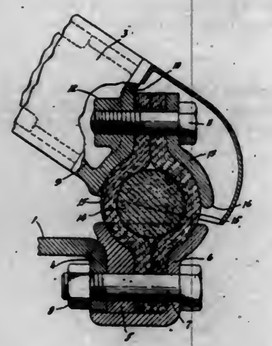
of a material unaffected by sterilizing temperatures and fluids centrally arranged between the secured ends of the bristles and provided with an annular groove, the ferrule having an annularly indented portion disposed between its ends and crimping the bristles and clamping the same between said indented portion and the wall of the groove, and anchoring means extending from the plug and secured within the socket beyond the inner end of the plug.

1,749,310. VALVE-OPERATING DEVICE. DONALD M. BELCHER, Winchester, Mass., assignor to Coffin Valve Company, Neponset, Mass., a Corporation of Maine. Filed July 25, 1924. Serial No. 728,145. 7 Claims. (Cl. 74—7.)



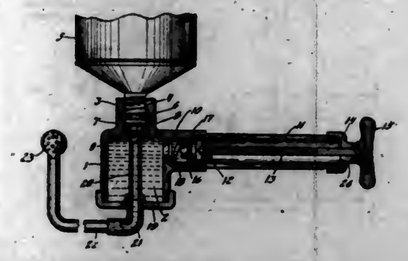
1. In an apparatus of the class described, in combination, a valve stem, means to impart movement to said stem including a driven gear, a manually operable pinion adapted to operatively engage said gear, a power driven pinion coaxially arranged to move axially in a plane substantially at right angles to the axis of said driven gear and adapted to operatively engage said driven gear and means to move one of said pinions into and the other out of engagement with said gear.

1,749,311. PIVOT JOINT. ROSCOE BEAINGER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 30, 1927. Serial No. 202,658. 10 Claims. (Cl. 267—30.)



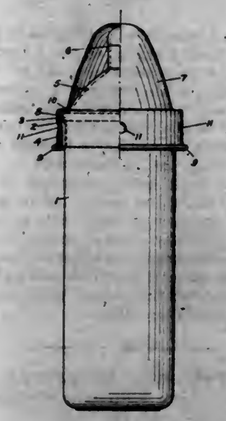
1. A compression joint for supporting the weight of one part to be joined upon another including a pair of flexible but inelastic straps secured at opposite ends to parts to be joined, and an elastic block held under compression between the intermediate portions of the straps and yieldable to permit flexing of the straps upon relative movement of the parts.

1,749,312. DISPENSING GUN FOR DECARBONIZING LIQUIDS. MARK L. BLAIR, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Apr. 30, 1928. Serial No. 273,946. 21 Claims. (Cl. 123—198.)



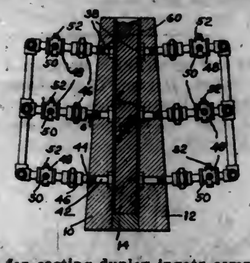
1. In a hand device for injecting a measured charge of decarbonizing fluid into an engine cylinder, a fluid container a metering chamber associated therewith, a valve controlling communication between the chamber and container, pressure means for forcing the contents out of the chamber when said valve is closed, a check valve between the chamber and pressure means and a discharge conduit leading from the chamber, having at its end a diffuser for spreading the discharged fluid in different directions.

1,749,313. SANITARY NURSING-BOTTLE CAP. ROY BURTCHAELL, Newark, N. J. Filed Jan. 8, 1929. Serial No. 331,117. 4 Claims. (Cl. 215—11.)



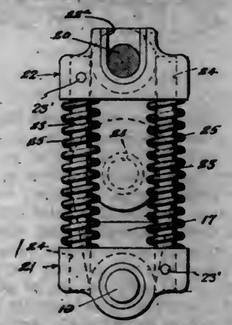
1. In combination with a nursing bottle having a bead on the bottle neck adjacent its mouth and a nipple fitting on the neck over said bead; a cap for protecting the nipple having; a one-piece part for enclosing the projecting part of the nipple, and also having an annular base portion terminating in an integral annular stiffening flange around the neck of the bottle below said bead, said base portion at its junction with said nipple enclosing part resting against said bead, forming with the nipple at that point a seal, and means on said base portion for securely holding the cap in position to maintain said seal.

1,749,314. CASTING APPARATUS. SAM H. CARBIS, Tarentum, Pa. Filed Jan. 27, 1928. Serial No. 249,807. 5 Claims. (Cl. 22—121.)



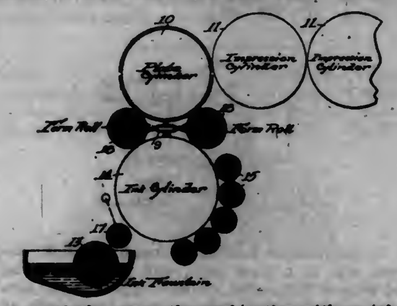
3. A mold for casting duplex ingots comprising in combination, suction means for holding coating plates against the inner walls of the mold, and means for releasing said suction from selected portions of said plates as desired.

1,749,315. TORQUE CUSHIONING MECHANISM. GEORGE C. CARHART, Syracuse, N. Y., assignor to The Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Feb. 26, 1924. Serial No. 695,359. 20 Claims. (Cl. 64—36.)



1. The combination of shafts, a torque cushioning mechanism connecting the shafts comprising opposing crank members mounted on the shafts, an eccentric pin carried by each crank member, the pins of said crank members being normally carried substantially diametrically opposite each other and a yielding connecting rod element between said eccentric pins, said element being arranged to yieldingly shorten upon relative movement of the shafts carrying the pins out of diametrically opposite relation.

1,749,316. MEANS FOR PRESERVING FORM ROLLS. JOSEPH P. CATLIN, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 10, 1923. Serial No. 661,926. 3 Claims. (Cl. 101—350.)

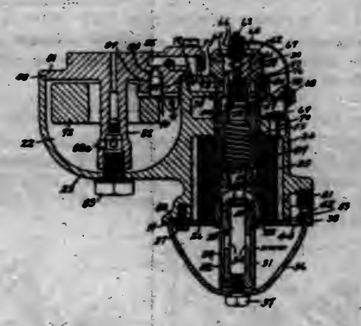


1. In a printing press, the combination with an ink cylinder, plate cylinder and two form rolls contacting with both and enclosing a space closed except at the ends, of a cooling pipe extending along said space and perforated along four sides to direct jets of cooling fluid against all four of said rolls and cylinders.

1,749,317. COMPOUND FOR CLEANING. CHARLES G. CHEVALIER, Baltimore, Md. Filed May 5, 1928. Serial No. 275,562. 3 Claims. (Cl. 51—280.)

1. An oil removing and surface polishing compound consisting of a finely divided oil absorbent material to which has been added diatomaceous earth.

1,749,318. LIQUID-SUPPLY APPARATUS. WILLIAM A. CHRYST and HERBERT C. WALTERS, Dayton, Ohio, assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 25, 1925. Serial No. 46,026. 6 Claims. (Cl. 103—53.)

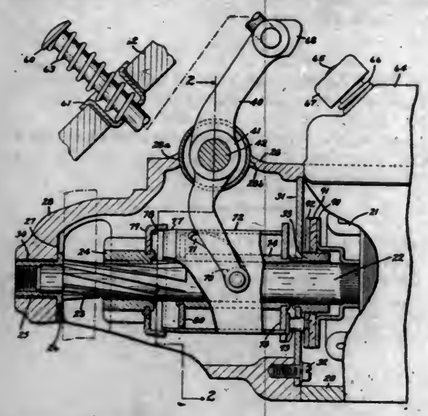


1. A pump comprising, in combination, a magnetizable frame providing a magnet housing open at the lower end and having an inlet passage, a vertical tubular duct provided by the frame in vertical alignment with the magnet housing, an outlet duct connected with the vertical duct, a magnetizable plate closing the lower end of the magnet housing, a tubular-magnetizable core supported centrally by the plate and located within the housing, a non-magnetizable cylinder connected with the core and extending through the magnet housing, a pump piston within said cylinder, a pump outlet and circuit interrupter housing connecting the pump cylinder with the vertical tubular duct of the frame, a magnet within the magnet housing, and piston operated circuit interrupter mechanism within the circuit interrupter housing and in axial alignment with said pump piston.

1,749,319. ENGINE-STARTING APPARATUS. WILLIAM A. CHRYST, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 19, 1926. Serial No. 149,499. 10 Claims. (Cl. 74—7.)

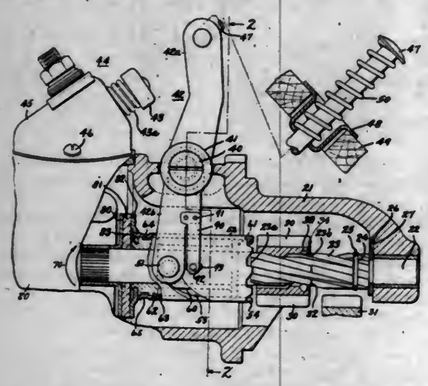
1. Engine starting apparatus comprising, a motor; means for connecting the motor with the gear of an engine to be started and including a pinion slidable into mesh with the engine gear and including provisions whereby the pinion will be automatically demeshed from the gear when the engine starts; and means for moving the pinion axially into engagement with the gear and for rotating the pinion in case of gear tooth abutment, said means including a driven friction clutch member provided by the pinion, a driving clutch member movable axially into engagement with the driven clutch member, a man-

ually operable member movable longitudinally of the axis of the clutch members, and elements providing a pin-and-



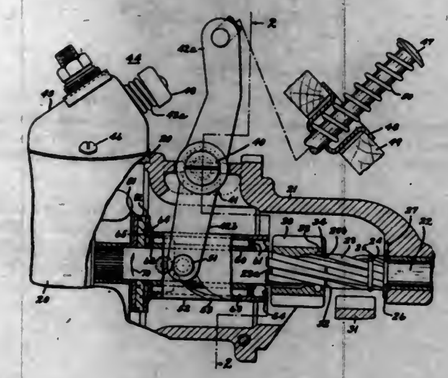
slot connection between the manually operable member and the driving clutch member, the slot being oblique to the axis of the clutch members.

1,749,320. ENGINE STARTER. WILLIAM A. CHRYST, Dayton, Ohio, assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 11, 1927, Serial No. 182,604. Renewed May 2, 1929. 11 Claims. (Cl. 74—7.)



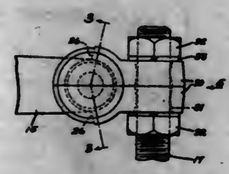
1. Engine starting apparatus comprising, in combination, a motor; a shaft operated by the motor; means for connecting the shaft with the gear of an engine to be started and including a pinion mounted on the shaft for longitudinal movement thereof and rotary movement therewith and provisions whereby the pinion will be automatically demeshed from the engine gear when the engine starts; means for shifting the pinion endwise into mesh with the engine gear and for rotating the pinion in case the pinion teeth collide with the engine gear teeth, said means including a sleeve element movable along the shaft and provided with a slot oblique to the shaft and a manually operable element carrying a pin movable longitudinally of the shaft and engaging the slot whereby the pin and sleeve element may move the pinion into mesh with the engine gear whereby the sleeve element may be rotated in case movement thereof is obstructed, said sleeve element and pinion having clutching means for imparting rotation to the pinion; and means tending to resist rotation of the sleeve element relative to the shaft, one of said elements (the manually operable element or the sleeve element) being provided with a projection extending toward the other element and normally received by a recess provided in the other element, and resilient means for retaining said projection in said recess.

1,749,321. ENGINE STARTER. WILLIAM A. CHRYST and GEORGE W. ELSEY, Dayton, Ohio, assignors to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 17, 1927. Serial No. 199,596. 27 Claims. (Cl. 74—7.)



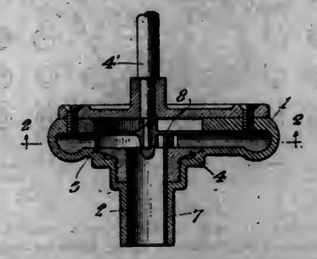
1. Engine starting apparatus comprising, in combination, a motor; a shaft operated by the motor; means for connecting the shaft with the gear of an engine to be started and including a pinion mounted on the shaft for longitudinal movement thereof and rotary movement therewith and provisions whereby the pinion will be automatically demeshed from the exgine gear when the engine starts; means for shifting the pinion endwise into mesh with the engine gear and for rotating the pinion in case the pinion teeth collide with the engine gear teeth, said means including a sleeve movable along the shaft and provided with slot oblique to the shaft, and a pin movable longitudinally of the shaft and engaging the slot, whereby the pin and sleeve may move together to move the pinion into mesh with the engine gear and whereby the sleeve may be rotated in case movement thereof is obstructed, said sleeve and pinion having clutching means for imparting rotation to the pinion; a frame adjacent the sleeve; and means tending to resist rotation of the sleeve and comprising frictionally engageable parts one carried by the frame and the other connected with the sleeve.

1,749,322. UNIVERSAL JOINT. WILLIAM A. CHRYST, Dayton, Ohio, assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 16, 1928. Serial No. 293,168. 3 Claims. (Cl. 287—85.)



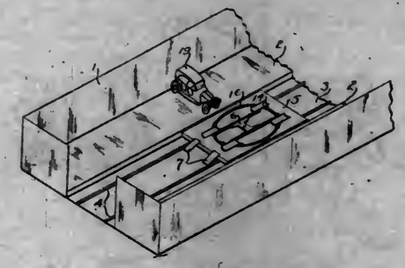
1. In combination, a swinging arm, a rigid link connected to said arm by a pivot joint, said joint comprising: opposed tapered transverse journals rigid with the arm end, a soft rubber bushing fitting snugly upon each of said tapered journals, two complementary half-housings together enclosing both of said journals and rubber bushings and confining said bushings under initial compression, said half-housings having aligned projecting ears having a hole extending through both ears, said link extending through said hole and having means thereon for rigidly clamping said half-housings together.

1,749,323. PUMP. EDWIN COWLES, Short Hills, N. J., assignor to Cowles Engineering Corporation, Sewaren, N. J., a Corporation of New Jersey. Filed Oct. 14, 1927. Serial No. 226,093. 3 Claims. (Cl. 103—111.)



1. A pump comprising a casing having inlet and outlet openings, an impeller, and resilient means cooperating with said impeller to rub and cut by abrasive action fibrous material entering the pump through said inlet opening.

1,749,324. STORAGE AND HANDLING OF MOTOR VEHICLES. ROBERT CRAIG, Dayton, Ohio. Filed Aug. 1, 1924. Serial No. 729,524. 7 Claims. (Cl. 104—44.)



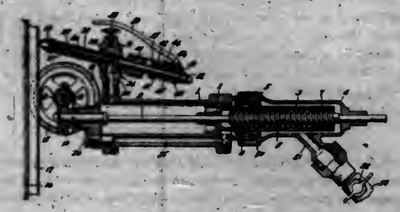
1. An apparatus of the class described, comprising in combination, means to transport a wheeled vehicle, and means to turn said vehicle while on said transporting means, said turning means comprising a turntable having a rotatable frame, a plurality of wheeled members fast to said frame and rotatable therewith, said wheeled members serving to support the vehicle wheels out of contact with said transporting means while said turntable is being rotated; said transporting means providing an unbroken upper surface upon which the wheels of the vehicle may roll while not on said wheeled members and upon which the wheels of said wheeled members may roll while the turning means is being turned.

1,749,325. WARNING SIGNAL. ROBERT M. CRITCHFIELD, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 23, 1927. Serial No. 221,473. 4 Claims. (Cl. 177—7.)



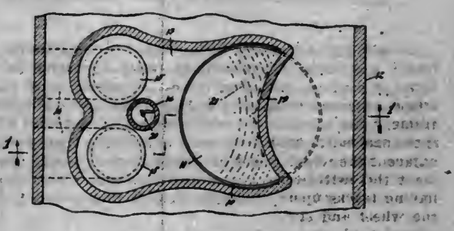
2. A resonator disc for a sound signal comprising a sheet metal body having all but its peripheral edge portion under tension.

1,749,326. STRIPING TOOL. VINCENT M. DIRKES and GÉZA L. TERNA, Detroit, Mich., assignors to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 6, 1928. Serial No. 304,304. 13 Claims. (Cl. 91—62.6.)



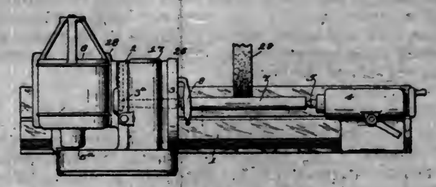
1. In a striping tool, a container for striping fluid, a movable partition element in the container, an inlet on one side of the partition thru which striping fluid enters upon movement of the partition in one direction, an outlet on the opposite side of the partition through which fluid is discharged upon such partition movement and a passageway connecting the inlet and outlet sides of the partition through which fluid flows upon movement of the partition in the opposite direction.

1,749,327. COMBUSTION CHAMBER. WILLIAM B. EARNSHAW, Dayton, Ohio, and ROBERT N. JANEWAY, Detroit, Mich., assignors to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 31, 1927. Serial No. 195,422. 7 Claims. (Cl. 123—191.)



1. An internal combustion engine having a cylinder and reciprocating piston, a combustion chamber communicating with the cylinder, means to admit combustible mixture to the chamber and permit escape of products of combustion therefrom, and an ignition device providing a point of ignition disposed at one side of the center of volume of the chamber; the wall of said chamber at the other side of the center of volume having a re-entrant baffling surface projecting toward the point of ignition.

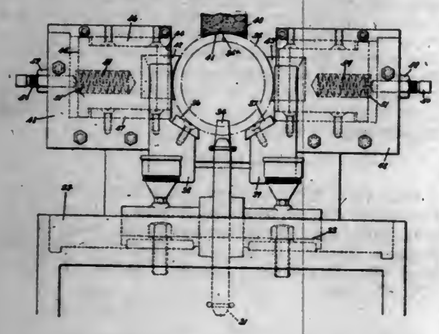
1,749,328. DEAD-CENTER GRINDER. SOL EINSTEIN and ALBERT TURNER, Cincinnati, Ohio, assignors, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 19, 1924. Serial No. 687,252. 9 Claims. (Cl. 51—95.)



1. A lathe or grinding machine embodying, in combination, a suitable bed, a work-rotating member suitably

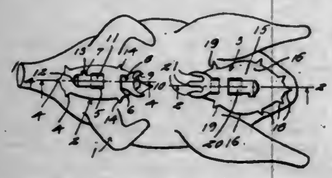
supported on said bed, a member for directly connecting the work piece with the work rotating member, a dead work-centering means supported in coaxial relation with said work-rotating member, an electric motor having a pair of bearings supporting its rotating parts on said bed, said bearings being disposed transversely of the work centers on opposite sides thereof and substantially symmetrical thereto, and means for rotating the work from said electric motor, whereby vibrations from the said motor will be caused to act upon the work longitudinally and the effect thereof on the work will be substantially neutralized.

1,749,329. GRINDING APPARATUS. RODGER J. EMMERT, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 14, 1925. Serial No. 56,188. 8 Claims. (Cl. 51—74.)



5. Grinding apparatus comprising in combination a frame, a grinding wheel non-adjustably supported on the frame, a conveyor including means for moving work pieces into engagement with the grinding wheel, and a guide way adjacent the wheel to hold the work pieces in proper alignment therewith, said guide way comprising spaced blocks having tracks upon which the work pieces are slid toward the wheel and spring loaded members adapted to engage the work pieces and maintain them in proper engagement with the tracks.

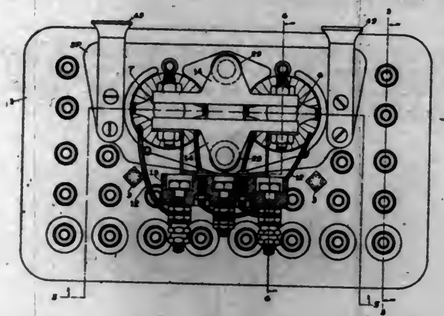
1,749,330. NO-BASTE CLAMP. ERIK KRISTIANSEN ENGH, Minneapolis, Minn. Filed Apr. 9, 1929. Serial No. 353,785. 5 Claims. (Cl. 17—1.)



1. A device for closing an incision in a stuffed fowl, comprising a plate body designed to overlie the incision, fixed members carried by the plate for engaging the body of the fowl, and means shiftable relative to the plate and adapted to be secured thereto for engaging and drawing upon the skin of the fowl.

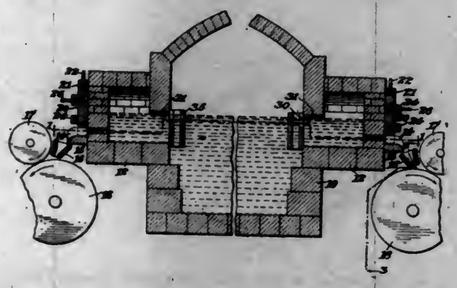
1,749,331. POLAR NEUTRAL RELAY. OSCAR S. FIELD, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Sept. 12, 1928. Serial No. 305,408. 12 Claims. (Cl. 175—339.)

12. In a relay, in combination, spaced electromagnets having spaced pole shoes, adjacent spaced permanent magnets, a back yoke connecting together one end of each magnet, a magnetic bracket connecting together the other ends of said permanent magnets, a pivoted neutral armature positioned to contact with the faces of said pole shoes



on energization of said electromagnets, and a pivoted neutral armature positioned to swing sidewise between the inner sides of said pole shoes and between said magnetic bracket and said neutral armature.

1,749,332. APPARATUS FOR FORMING SHEET GLASS. NICKLAS FRANZEN, Long Beach, Calif., assignor to Mississippi Glass Company, a Corporation of New York. Filed Apr. 7, 1926. Serial No. 100,214. 2 Claims. (Cl. 49—3.)

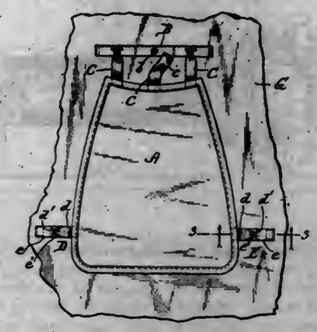


2. In a glass melting and sheet forming apparatus, in combination, a melting furnace, outports in the walls of said furnace below the normal levels of molten glass therein, a baffle in the path of flow of glass from the furnace to said ports having an open end trough extending from a point on the side away from said port and below the normal levels of molten glass therein, an opening on the port side of the said baffle at a point within said levels of molten glass in said furnace, a plurality of troughs communicating with said ports, a longitudinal funnel for receiving molten glass from the said plurality of troughs and having its lower and outgoing opening of dimensions approximating the cross sectional dimensions of the sheet glass to be made and forming means for receiving the stream of molten glass from the said funnel.

1,749,333. SANITARY WAIST GARMENT. ANNETTE FRIDOLPH, New York, N. Y., assignor to A. B. A. Specialties Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 24, 1927. Serial No. 242,419. 4 Claims. (Cl. 128—287.)

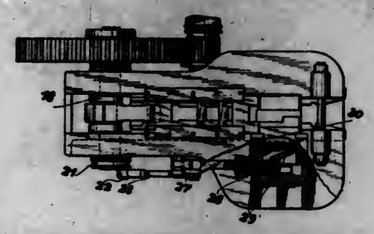
1. A sanitary and shadow proof garment comprising an apron composed of moisture resistant material, a band separate from said apron, said band being attachable to an outer garment upon the interior thereof and positioned in a spaced relation to the upper margin of said apron,

said band having a plurality of apertures, a plurality of straps fixed to the apron and extending upwardly therefrom, each strap having a stiffened tab insertible into an aperture of said band, a plurality of corner straps fixed to the apron substantially at the lower corner portions thereof and extending outwardly, each of said straps



having a stiffened tab, and straps attachable to an outer garment and provided with apertures adapted for the reception of the tabs on said corner straps, said band and the specified series of straps cooperating with said apron for retaining the same in a spread condition upon the interior of an outer garment.

1,749,334. FORGING MACHINE AND THE LIKE. OTTO GEORG, Dusseldorf, Germany. Filed Sept. 30, 1926, Serial No. 138,634, and in Germany Aug. 5, 1925. 3 Claims. (Cl. 78—17.)



1. In means for operating the heading and die clamping dies of a forging machine, a heading die, a clamping die, a crank shaft having a main crank and an auxiliary crank set at an angle of at least 45° ahead of the main crank, the said main crank being coupled to the heading die for operating the same, and a three-fold toggle lever mechanism connecting the auxiliary crank and the clamping die and coacting with said auxiliary crank on each cycle of action of the machine to start the closing of the clamping die before the heading die has started its heading stroke and to complete the closing of the clamping die before the heading die has completed the first quarter of its heading stroke and to hold it closed during the remainder of such stroke.

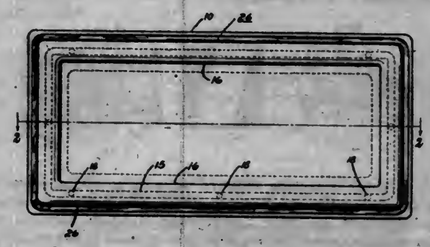
1,749,335. NONMETALLIC SHACKLE FOR CANTILEVER-SPRING SUSPENSIONS. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 14, 1926. Serial No. 154,810. 5 Claims. (Cl. 267—30.)

1. In combination with a cantilever spring and rear axle of a motor vehicle, a shackle comprising: a metal housing fixed to said spring, a molded elastic rubber element partially confined by said housing and sustaining the weight load by compression and having a flexible fabric



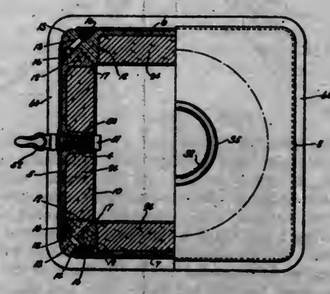
link molded thereupon, said link being fixed at its fore and aft portions rigid with said axle, and means for securing the intermediate portion of said link to said spring.

1,749,336. REFRIGERATOR DOOR OF MOLDED ASPHALT COMPOSITION. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 9, 1927. Serial No. 174,085. 4 Claims. (Cl. 20—35.)



1. As an article of manufacture, a heat insulating door for refrigerator cabinet, comprising: a relatively thick section panel frame and a relatively thin panel integrally molded of a heat insulating bituminous composition comprising hard asphalt, a flux of lower melting point, asbestos fiber and an inert filler to form an interior recess of substantial depth, an inner metal lining secured to the inner surface of said frame to thereby form a closure for said interior recess, and heat insulating material filling said recess.

1,749,337. WATER-COOLER CABINET. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 29, 1927. Serial No. 216,115. 6 Claims. (Cl. 220—9.)



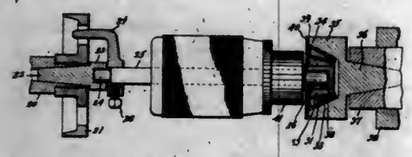
1. In a water cooler, a metal water tank having an open top, separate molded panels enclosing said tank and forming a cabinet surrounding and supporting said tank, said molded panels having thickened margins mutually abutting each other and the corners of said tank, heat insulating material filling the space between the panel walls and tank walls, and a removable heat insulating top having a flange resting upon the top edges of the side panels.

1,749,338. WIND SCREEN FOR AIRPLANE PLATFORMS. RICHARD GIBBONS, Brooklyn, N. Y., assignor to Mary A. Kenney, Brooklyn, N. Y. Filed Aug. 13, 1927. Serial No. 212,669. 1 Claim. (Cl. 244—2.)



In combination, an aerial platform wherein the interior upper surface of the platform serves as a runway for receiving aerial vehicles, a wind screen running along one or more of the borders of said runway, and means whereby said screen may be adjusted to one position in which it shields the space above said platform and to another position in which it leaves said space clear.

1,749,339. SHAFT-CENTERING SUPPORT. LOUIS C. GOAD, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 9, 1926. Serial No. 121,471. 3 Claims. (Cl. 82—33.)



1. A shaft centering support for a lathe stock, comprising in combination, a bearing outer-race member; a bearing inner-race member; anti-friction members between the race members, the bearing surfaces of said members being so shaped that axial movement of one race member relative to the other tends to align the axes of the race members; means for supporting one race member coaxially with the lathe stock; and means provided coaxially of the other race member for receiving a cylindrical body, a cylindrical surface of which is to be supported concentric to the axis of the lathe stock.

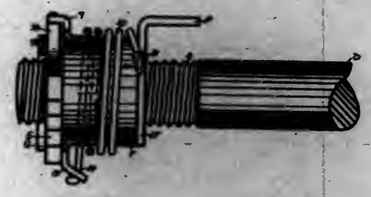
1,749,340. HEAD COVERING OR TURBAN. ALEXANDRE M. GREAN, New York, N. Y. Filed Aug. 15, 1929. Serial No. 386,023. 3 Claims. (Cl. 2—198.)



1. A head covering comprising a flexible fabric member having a central hood portion and oppositely extended tie strings, at least one of said tie strings having an opening therethrough directly adjacent one side of the hood portion, through which the other is passed, and said strings having a combined length beyond the hood portion greater than the circumference of said hood portion to permit them to be extended about the head of the wearer outside the hood portion and have their free end portions secured together.

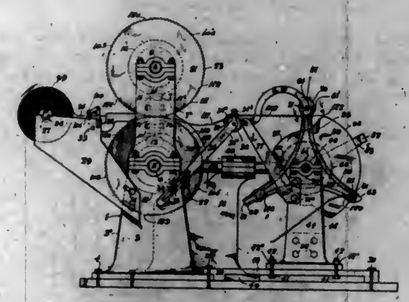
1,749,341. ADJUSTING BOLT. DICK H. GROENEWOLD, Loyal, Okla. Filed Feb. 7, 1927. Serial No. 166,492. 4 Claims. (Cl. 85—32.)

1. A device of the class described comprising in combination, a threaded bolt, a nut threaded thereon, ratchet teeth arranged circumferentially of the nut at one end thereof, a sleeve surrounding the nut, a pawl carried by the sleeve at one end thereof for engagement with the ratchet teeth, a ring encircling the nut for disposition against the other end of the sleeve, a stop forming



member carried by and extending laterally from the ring, a coil spring encircling the sleeve and being connected at its ends to the ring and the remote end of the sleeve respectively, and means disposed through the bolt to retain the nut thereon.

1,749,342. METHOD AND MACHINE FOR FORMING, BENDING, AND CUTTING OFF METAL STRIPS. MORRIS HAZEN, Cincinnati, Ohio. Filed May 25, 1927. Serial No. 194,061. 16 Claims. (Cl. 153—2.)



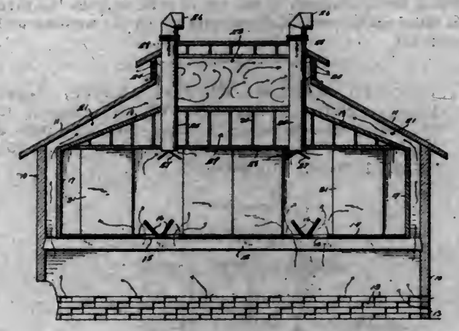
10. A machine for continuously forming radiator core sections, comprising a pair of corrugating members adapted to receive a strip of flat metal between them and having three integral cooperating die faces two of which are alike and one different whereby said strip is formed, die members, means for successively closing said die members, and means whereby said die members are normally held opened at pre-determined times.

14. The method of forming strips of sheet metal to produce the component elements of a radiator core which comprises the following steps performed upon a continuously-moving strip, namely, forming corrugations in said strips, then severing sections of equal lengths therefrom and simultaneously with said severing step, bending the adjacent severed end to a right angle to the longitudinal dimension of the strips.

1,749,343. COOLING OR REFRIGERATING STRUCTURE. EARL F. HESSH, McAllen, Tex. Filed Nov. 6, 1928. Serial No. 317,662. 5 Claims. (Cl. 98—32.)

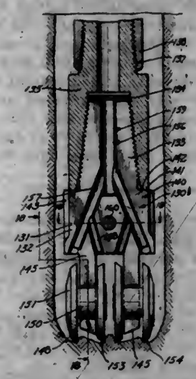
1. A cooling structure having an insulating floor, an outer wall, an outer roof, an inner wall extending upward from the floor and spaced from the outer wall, an inner roof associated with the inner wall to thus provide an air circulating space between the outer and inner walls and

the outer and inner roofs, a chamber into which said space opens having louvres, ventilators disposed in the



floor and ventilating pipes extending up from the inner roof and extending exteriorly to the outer roof and having a damper.

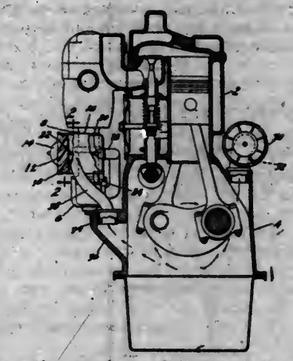
1,749,344. DISK BIT. FREDERIC W. HILD, Los Angeles, Calif. Filed Dec. 15, 1926. Serial No. 154,887. 16 Claims. (Cl. 255—71.)



1. A rotary disk bit comprising: a spool cutter; a support for carrying said spool cutter, said support comprising a pair of substantially alike support members arranged to cooperatively extend around a hub of said spool cutter; and means for securing said support members together.

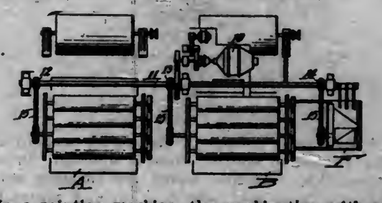
1,749,345. CRANK-CASE VENTILATION. JOHN H. HUNT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 30, 1926. Serial No. 119,668. 7 Claims. (Cl. 123—119.)

1. The combination of an engine having a crankcase, means for admitting air to the crankcase, a carburetor, an air cleaner connected to the carburetor arranged to clean the air supplied thereto, said cleaner comprising a casing having an open end, spirally arranged air directing blades in the open end of the casing, a dust discharge orifice at the other end of the casing, and a conduit communicating at one end with the crankcase and at the other end with the interior of the cleaner adjacent said blades so that the stream of air passing through the cleaner will exert an



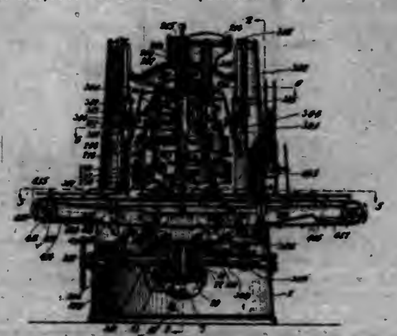
aspirating action on the conduit to entrain crankcase vapors and effect their cleaning prior to admission to the carburetor.

1,749,346. DRIVE FOR UNIT PRESSES AND FOLDERS. JOHN A. ISBELL, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 16, 1926. Serial No. 95,036. 3 Claims. (Cl. 270—8.)



1. In a printing machine, the combination with a plurality of printing units arranged end to end in alignment and a folding unit arranged at the end of the series, of a longitudinal main shaft, means for driving the main shaft, a series of driving wheels on the main shaft, a drive shaft for each of the several units, and means whereby each of the driving shafts of the several units and the folder can be driven from certain of said driving wheels, each of the last named means being individually capable of being disconnected.

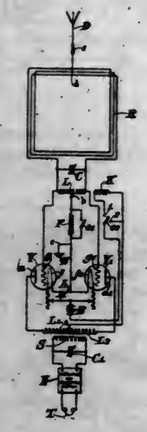
1,749,347. MULTIPLE-HEAD SEALING MACHINE. MAX JAEGER, Long Island City, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Apr. 17, 1922. Serial No. 553,899. 19 Claims. (Cl. 226—87.)



18. In a machine of the class described, a base frame, a rotating platform carried by the base frame, a plurality

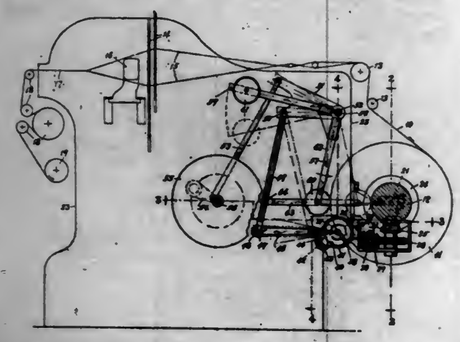
of tables stationary with respect to said platform, but movable in a vertical direction, a spinning frame rotatably mounted above the platform, spinning heads suspended by said spinning frame and means driven by the platform to effect rotation of the spinning frame and continuous rotation of the suspended spinning heads.

1,749,348. DIRECTIONAL RADIO SYSTEM. FREDERICK A. KOLSTER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Nov. 18, 1926. Serial No. 149,047. 20 Claims. (Cl. 250—11.)



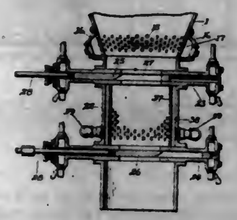
9. A directional radio receiving system comprising component absorbing systems having different directional characteristics, inductive means for effecting electrical symmetry between said component systems, means for indicating the magnitude of energy in at least one of the component systems, and means magnetically coupled to said inductive means for impressing energy of one of said component systems upon another during maintenance of symmetry between them.

1,749,349. AUTOMATIC TAKE-OFF MOTION FOR WEAVING MACHINES. JONATHAN LUCAS, Savannah, Ga., assignor to Lucas-Lamborn Loom Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1927. Serial No. 215,806. 6 Claims. (Cl. 139—107.)



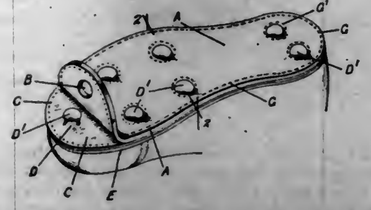
1. In a weaving machine, the combination of a warp beam carrying a roll of warp yarn, an intermittently operated friction clutch for rotatively advancing said warp beam in successive steps, and a regulator controlled by said warp beam and operatively associated with said clutch for automatically adjusting said clutch to vary the rotation of the beam in accordance with the progressive decrease in the diameter of the roll of yarn whereby the yarn is taken off in successive amounts which are uniform and constant.

1,749,350. COAL-WASHING APPARATUS. JAMES ANTHONY MCQUAIL, Hiawatha, W. Va., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 12, 1925. Serial No. 68,713. 1 Claim. (Cl. 209—155.)



In a coal washing apparatus, a liquid-containing tank wherein the coal is separated from intermixed refuse material, the coal being permitted to pass out of said tank and the refuse material being permitted to accumulate at the bottom thereof, a chamber with a perforate lateral wall disposed beneath the tank, a slide valve between the tank and chamber, the refuse material at the bottom of the tank being permitted to gravitate into said chamber when said valve is open, a slide valve at the bottom of said chamber to temporarily confine the refuse material therein, a solid wall surrounding the perforate wall of said chamber in spaced relation thereto to form a drain pocket, and a valve controlled exhaust opening at the bottom of said pocket, whereby, said slide valves being closed and a charge of refuse material being confined in said chamber, the latter may be drained by opening the valve at the exhaust opening without the loss of liquid from said tank.

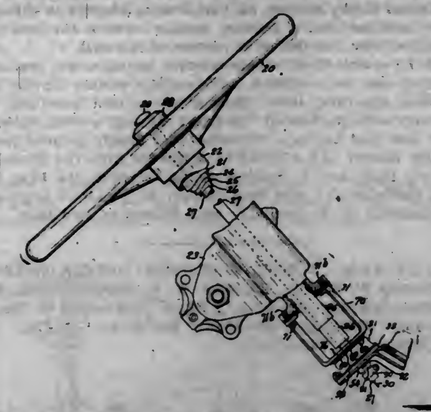
1,749,351. BOOT OR SHOE. ALEXANDER MCQUEEN, Eastwood, Australia. Filed Aug. 23, 1928, Serial No. 301,566, and in Australia June 25, 1928. 4 Claims. (Cl. 36—30.)



1. A boot sole comprising an outer sole member having a plurality of apertures formed in it, a rubber insertion sheet and a plurality of studs integral with said insertion sheet and projecting respectively through the apertures in the outer sole member, said studs having heads overlying the material immediately surrounding the apertures.

1,749,352. ELECTRIC SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 31, 1927. Serial No. 229,868. 12 Claims. (Cl. 200—59.)

1. An electric switch adapted to be mounted at the lower end of a steering column and having an operating shaft adapted to be drivingly connected with a rod extending through the steering column, and having a case enclosing the operating shaft, and means for attaching the



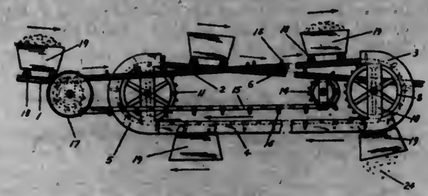
case to a steering column and adapted to permit oscillation of the case relative to the steering column as the shaft is turned by said rod.

1,749,353. INSTRUMENT PANEL BOARD. JOHN R. PADESKY, La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 28, 1928. Serial No. 295,947. 3 Claims. (Cl. 180—90.)



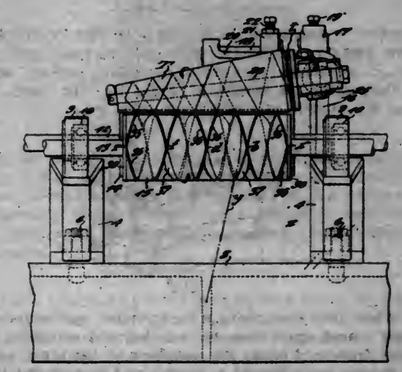
1. The method of manufacturing an instrument panel board which consists in cutting out of sheet metal a suitable blank; forming an aperture in said blank through which an instrument therebehind may be observed, said aperture being initially formed with an irregular contour and affording a projecting portion in the plane of said blank and extending inwardly from the periphery of said aperture; and then deflecting said projecting portion out of the plane of said blank and bending and stretching said portion to cause it to conform to the general shape of said aperture and to constitute a substantially perpendicular flange about a portion of said aperture.

1,749,354. APPARATUS FOR TIPPING TRAVELING MINE SKIPS. WALTER RAWLING, JAMES MARSHALL, and JOHN BAKER RUMFORD, Cessnock, Australia. Filed Aug. 31, 1928, Serial No. 303,340, and in Australia Sept. 1, 1927. 2 Claims. (Cl. 214—62.)



1. Apparatus for tipping traveling mine-skips comprising a continuous rail track consisting of an upwardly inclined entry section, a downwardly and rearwardly curved section joined at its upper end to the forward end of the entry section and composed of rails of channel section with the channels opposed, a central or return section joined at one end to the lower end of said curved section, and upwardly and forwardly curved section joined at its lower end to the other end of the central section and composed of channel rails with their channels opposed, said central section being at a slight angle, horizontally, to the entry section, and an exit section joined at one end to the upper end of the last mentioned curved section; and, in combination with said track, means for progressing a mine-skip about said track, said means comprising an endless chain equipped with fingers to engage an element of the under frame of a skip on the track, and four sprockets, one of which is power driven, about which said chain is reeved, two of said sprockets being located respectively at the entry and exit ends of the track, while the other two respectively are mounted concentrically with the curved portions of the track; all operating as and for the purpose set forth.

1,749,355. TRAVERSING MEANS FOR WINDING MACHINES. FRANKLIN AUGUSTUS REECE, Chestnut Hill, Mass., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 25, 1929. Serial No. 342,544. 10 Claims. (Cl. 242—43.)



1. A yarn-traversing device for winding machines comprising a rotating element having on its peripheral surface a groove in which the yarn is received and by which it is guided, said groove being in the form of opposite crossing helices, the point of one projection between opposite portions of the groove at a crossing being chamfered to insure the yarn being guided in a predetermined direction.

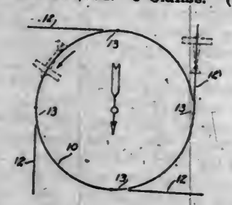
1,749,356. SEWAGE CONTROL FOR MOVING VEHICLES. OSCAR A. ROSS, New York, N. Y. Filed Aug. 9, 1928. Serial No. 298,448. 13 Claims. (Cl. 4—8.)



5. In combination with a railway car having a walled room containing a toilet, the toilet having a lever pivotally supported by the wall structure for effecting a flushing of the toilet, of a locking device supported by the walled structure normally arranged to lockingly engage the lever to prevent operation thereof to flush the toilet, means controlled by the rate of travel of the car for effecting an unlocked position of the device upon a pre-

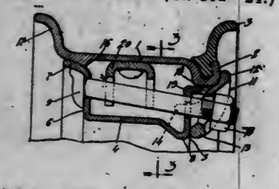
determined increase in the rate of travel thereof whereby the toilet may be flushed, and key operated means for manually unlocking the device whereby the toilet may be flushed independently of the rate of travel control means.

1,749,357. AIRCRAFT-LAUNCHING APPARATUS. ERNST M. SCHMELZ, Detroit, Mich. Filed Aug. 2, 1928. Serial No. 297,001. 6 Claims. (Cl. 244—2.)



1. In launching apparatus for an aircraft, a circular trackway for the ground wheels of an aircraft provided with a guide rail extending substantially along the midline thereof, and a plurality of switch trackways extending tangentially in different directions from the circular trackway, each switch trackway provided with a correspondingly located guide rail having a switch connection with the guide rail of the circular trackway.

1,749,358. DEMOUNTABLE RIM AND ITS COOPERATING FELLY. FRANK W. SCHMIDT, Jackson, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 19, 1925. Serial No. 16,689. 1 Claim. (Cl. 301—24.)



A wheel felly comprising a base portion, and radial side flanges spaced apart from one another and extending outwardly from said base; the periphery of the inner one of said flanges being shaped to receive and support the inner side of a rim, and the inner part of the outer of said flanges serving as a fulcrum for clamps for securing a rim in place upon the felly; the base of the felly where it merges with the outer of said side flanges being depressed inwardly and toward the axis of the wheel to thereby provide a continuous circumferentially extending ridge depending from the base whereby fulcrums for the clamps aforesaid are provided which lie inside the base and nearer the axis of the wheel than the base.

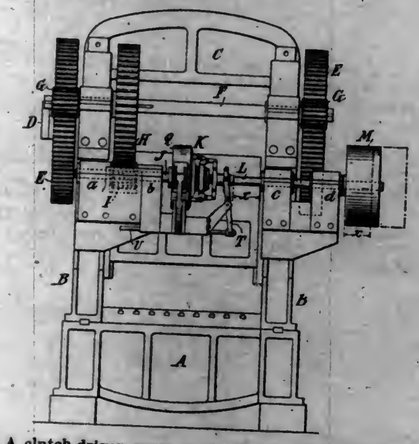
1,749,359. INSULATOR MOUNTING. BURTON M. SMALLEY, Chicago, Ill., assignor to Joslyn Manufacturing & Supply Co., Chicago, Ill., a Corporation of Illinois. Filed May 31, 1924. Serial No. 716,923. 6 Claims. (Cl. 173—321.)



1. In combination, a base member having a flat wall, depending flanges for spacing said wall from a supporting surface, said wall having an aperture, a threaded nut secured to the inside surface of the wall in line with the opening, an insulator having a threaded stud centrally attached fixedly thereto, said stud being adapted to thread into said nut, and a yielding washer between the base of the insulator and the outer surface of the wall.

3. In combination, a base member having a flat seating surface for an insulator, said seating surface having a central aperture, screw threads about said aperture, a transversely perforated insulator having a cooperating flat base and having a threaded stud fixedly secured centrally thereof and adapted to cooperate with the threads of the base, and a yielding washer between the base of the insulator and said base member to permit of angular adjustment of the insulator with respect to said base.

1,749,360. FRICTION-CLUTCH-DRIVEN PRESS. ROBERT W. STROUT, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed Apr. 28, 1928. Serial No. 273,789. 4 Claims. (Cl. 192—110.)



1. A clutch-driven press or the like having primary and secondary drive shafts and an intervening friction clutch, having driving and driven members, the primary shaft removably united to the driving member of the clutch and slidably mounted to be displaced endwise for giving access to the clutch.

1,749,361. EPHEDRINE-ALDEHYDE COMPOUND AND SOLUTION AND PROCESS OF PREPARING SUCH COMPOUND. ELMER H. STUART, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a Corporation of Indiana. Filed May 3, 1928. Serial No. 274,965. 12 Claims. (Cl. 167—58.)

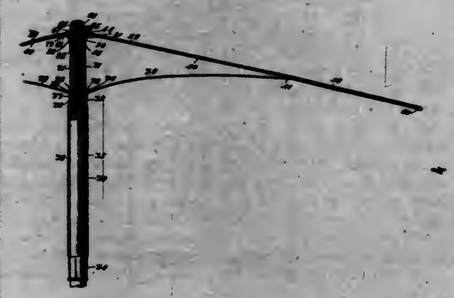
1. A compound obtained by the reaction of 1 mol of l-ephedrine with 1 mol of an aldehyde other than one which is an oxidation-decomposition product of such ephedrine.

1,749,362. RAILWAY-CAR BRAKE. JOSEPH M. SUAREZ, Baltimore, Md., assignor of one-fifth to Sterling P. Buck, Baltimore, Md. Filed Apr. 29, 1927. Serial No. 187,601. 9 Claims. (Cl. 188—77.)



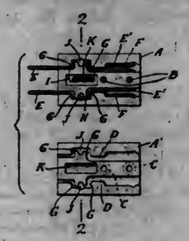
1. The combination of a rotary brake-drum, a brake-band around the periphery of said brake-drum, said brake-band comprising a series of arcuate members having shoulders on one side and having apertured radially extending ears on the opposite side and at opposite ends, brake-shoes secured between the shoulders of each of said arcuate members, compression springs between the adjacent radial ears of the arcuate members, bolts through said radial ears and operable to move them towards one another against the compression of the springs, and means to contract the brake-band as a whole for causing said brake-shoes to frictionally engage with said brake-drum.

1,749,363. UMBRELLA CONSTRUCTION. CLARENCE H. VENNER, Jr., New York, N. Y. Filed Aug. 23, 1926. Serial No. 130,816. 18 Claims. (Cl. 135—20.)



2. An umbrella construction comprising in combination a stick, a flexible wire frame pivotally and slidably mounted thereon and a removable waterproof cover shrunk on said frame.

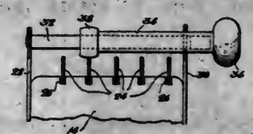
1,749,364. RADIO RECEIVING APPARATUS. SIDNEY WEISBERG, Brooklyn, N. Y., assignor of one-half to Morris Pichson, Brooklyn, N. Y. Filed Mar. 29, 1928. Serial No. 265,529. 8 Claims. (Cl. 200—115.5.)



1. A device for protecting the tubes of a radio receiving set, comprising a casing of insulating material, electrical conductors in said casing comprising two separated sections located in alignment with each other, a wire connecting said sections having a resistance greater than that of the tubes of the set to be protected, two other sectional conductors located in alignment with each other, a fuse wire of predetermined resistance connecting said last mentioned conductors and designed to fuse prior to the fusing temperature of said first wire, said conductors being adapted for connection with standard plug terminal elements used in connecting electrical circuits.

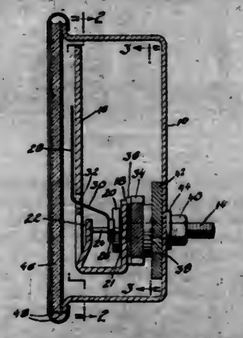
1,749,365. SERVICE INDICATOR. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed June 18, 1927. Serial No. 198,519. 8 Claims. (Cl. 40—68.)

1. A service indicating device comprising, in combination, a plurality of indicating members, means in driving engagement with each of said members, and an axially movable member including a resilient portion, said portion



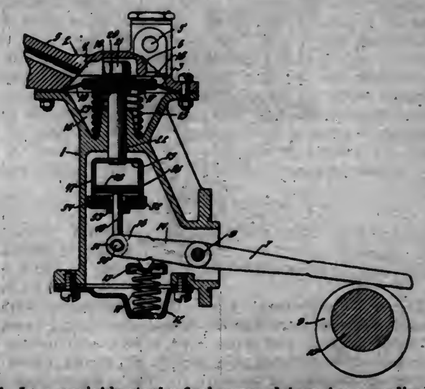
being adapted to frictionally engage said means for the purpose of resetting its respective member to a desired position.

1,749,366. AMMETER MAGNET. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed July 20, 1927. Serial No. 207,265. 3 Claims. (Cl. 171—95.)



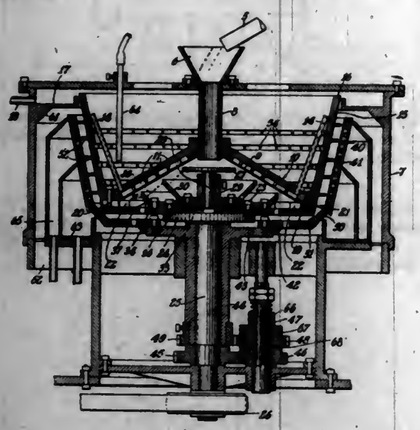
1. In an ammeter, a conductor comprising a permanent magnet, a dial insulated from said conductor, terminals, common means for uniting said dial, magnet and terminals, an oppositely disposed finger and a tongue on said dial, and a pointer swinging mechanism mounted on said finger and tongue.

1,749,367. ACCELERATING MEANS FOR FUEL PUMPS. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed June 18, 1928. Serial No. 286,361. 6 Claims. (Cl. 103—38.)



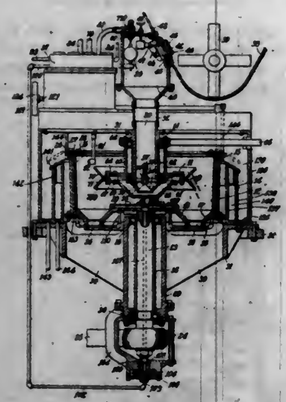
1. In a variable-stroke fuel pump driven by a cyclically moving part; a reciprocable pumping element conditionally movable relatively to a pump chamber; a pump actuating element engageable by said cyclically moving part; and intermediate means therebetween capable of imparting only intake movements to said reciprocable pumping element when running at relatively slow speeds but becoming capable of transmitting expulsion strokes also when running at relatively high speeds.

1,749,368. CONTINUOUS SEPARATION OF LIQUIDS AND SOLIDS. HANS C. BEHR, Scarsdale, N. Y. Filed Sept. 1, 1927. Serial No. 216,810. 9 Claims. (Cl. 210—69.)



1. Apparatus for separating in two stages liquid from solids, comprising means for supplying a continuous stream of the material under treatment, a rotary screen, means for causing the material to move centrifugally over the screen with gradually increasing energy of rotation, a second stage embodying a rotary receiving device having a receptive capacity less than the natural rate of centrifugal delivery from the first stage, for impeding the movement over the screen in the first stage.

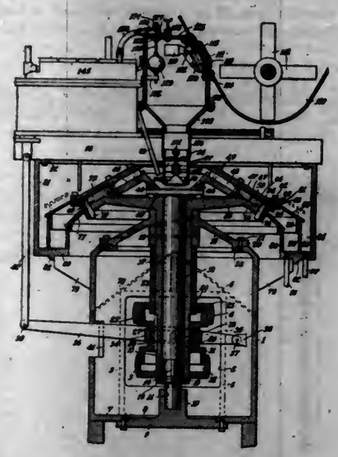
1,749,369. CENTRIFUGAL DRIER. HANS C. BEHR, Scarsdale, N. Y. Filed Aug. 3, 1928. Serial No. 297,294. 22 Claims. (Cl. 210—69.)



17. In a centrifugal drier, the combination with a basket, a screen carried by the basket, there being passages provided between the screen and basket, and means for intermittently rotating the basket, of means timed for admitting fluid under pressure to such passages upon the cessation of the rotation of the basket.

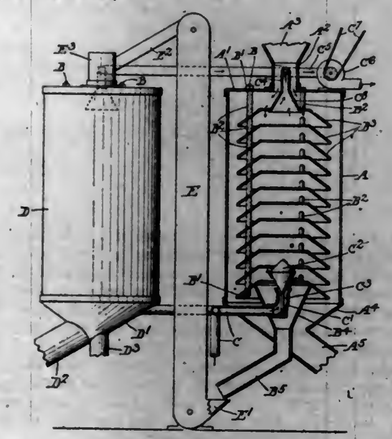
1,749,370. CENTRIFUGAL DRIER. HANS C. BEHR, Scarsdale, N. Y. Filed Aug. 23, 1928. Serial No. 301,478. 4 Claims. (Cl. 210—69.)

1. In a centrifugal drier for separating liquid from solid aggregate, the combination with a conical basket so sloped that the material being treated, if unobstructed, would be moved outwardly over its inner surface by centrifugal force, there being formed on the inner surface of the basket numerous substantially radial ribs, and passages communicating with the spaces between the ribs and passing through the basket to its periphery, and means adapted to continuously rotate the basket, of a screen



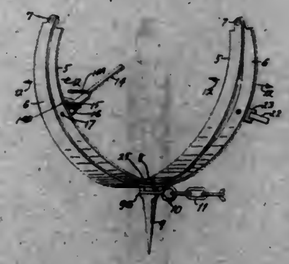
bedded on the tops of the ribs, a smooth retaining cone rigid with and coned inwardly from the basket, a discharger consisting of a disc and blades carried upon its periphery and adapted to move the material being treated inwardly over the inner surface of the retaining cone, and means for selectively causing the discharger to rotate either in unison with or at a different rate of speed from the speed of rotation of the basket.

1,749,371. APPARATUS AND PROCESS FOR MINERALS SEPARATION. JOHN BLAND, Tinton, S. Dak. Filed Sept. 20, 1926. Serial No. 136,400. 8 Claims. (Cl. 209—139.)



1. The method of separating relatively flat, relatively light, particles from granular particles which includes causing a stream of such mixed materials to drop downwardly along a predetermined axis and directing upwardly along said axis a current of air sufficient to cause the flat particles to eddy laterally, while insufficient to resist the downward movement of the granular particles or to impart substantial upward movement to the flat particles.

1,749,372. ANIMAL TRAP. FRED C. BLOOM, St. Paul, Minn. Filed Mar. 15, 1928. Serial No. 261,878. 4 Claims. (Cl. 43—90.)



1. An animal trap comprising a pair of arched flat-spring metal arms one within the other and their adjacent ends pivotally connected, a main pivot member connecting said arms intermediate said ends, said arms normally in approximately a common plane when sprung and their pivotally connected end parts in spaced relation, said spaced end parts adapted to be sprung toward each other and the arms simultaneously spread apart to spring the arms to approximately circular set formation in a plane at right angles to the first described sprung position, and means for holding said arms in the set position.

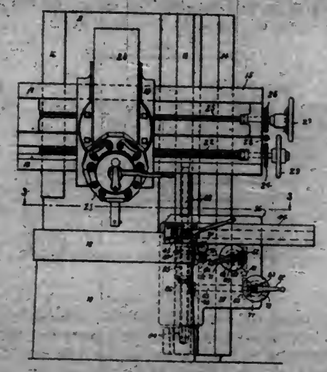
1,749,373. COMBINED BLOWER AND SUCTION DEVICE. ADAM A. BERGER, Chicago, Ill. Filed June 16, 1927. Serial No. 199,193. 1 Claim. (Cl. 230—117.)



In a combined blower and suction device including a fan casing having a tubular member in communication therewith, a perforated plate positioned in the open end of said tubular member and means including a shoulder and lugs connected to said member for detachably retaining said plate in position between the same, said plate having recesses to allow said lugs to pass therethrough and an outwardly cupped central portion accessible from the open end of said tubular member adapted to be grasped by the fingers for enabling said plate recesses to be turned into and out of register with said lugs to permit of said plate being attached to or removed from said tubular member.

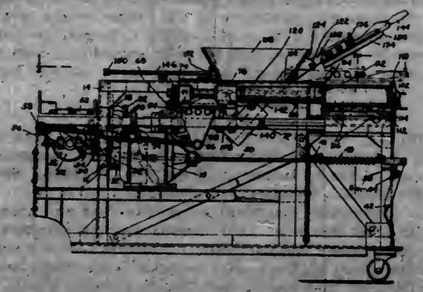
1,749,374. MACHINE TOOL. EDWARD P. BULLARD, Jr., Stratford, Conn., assignor to The Bullard Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 26, 1927. Serial No. 215,600. 7 Claims. (Cl. 29—29.)

1. In a lathe of the class described, the combination with a base and upright having vertical front and side ways, a rotary work table, a front turret head mounted above the table, a saddle including a front portion and a side portion engaging the ways, a slide mounted in the saddle and carrying a tool head adapted to be moved to and from the axis of the table, a vertically disposed threaded rod secured to the base, a rotatable sleeve carried by the saddle and engaging the threaded rod, power means for operating the sleeve upon the rod, to raise



and lower the saddle and tool slide, and power means for feeding the tool slide longitudinally in the saddle and with respect to the axis of the table.

1,749,375. CINDER-BLOCK MACHINE. VALENTINE DAHL, Woodhaven, N. Y. Filed Aug. 26, 1927. Serial No. 215,539. 5 Claims. (Cl. 25—41.)



5. In a machine of the class described, in combination, a block mold, a plunger, means for advancing said plunger axially into said mold, means for rotating said plunger while it is being advanced, means comprising a clutch under control of the operator for starting said advancing and rotating means into operation, a cam device for disengaging said clutch when said plunger has reached a predetermined position in said mold, means under control of the operator for retracting said plunger from said mold and for rotating said plunger while it is being retracted, and a cam device for stopping the movement of said plunger when it has been retracted from said mold.

1,749,376. MEANS FOR FILING AND HANDLING LARGE SHEETS. HAROLD L. DE LISLE, Chicago, Ill. Filed Oct. 1, 1928. Serial No. 309,465. 5 Claims. (Cl. 129—1.)



4. A holder for relatively large sheets of the character described comprising a flat base and a flat cover both of strong and stiff sheet material, the cover and base being hinged together at their rear edge portions respectively and by a flexible hinge connection providing a material

amount of space between the cover and the base at the hinge connection whereby a substantially large number of sheets may be held between the cover and the base with the cover lying flat upon the sheet material.

1,749,377. SHIPPING COOP. ADAH M. EUBANKS, Charleston, Wash. Filed Nov. 19, 1927. Serial No. 232,393. 1 Claim. (Cl. 119—18.)

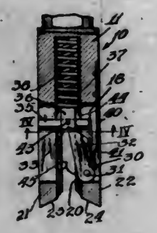


A coop comprising a solid bottom, side and end walls, said side and end walls being solid from the bottom to a point about half way the height of the coop and the remaining portions of such side and end walls being formed of spaced apart slats, the solid portions of the side walls at opposite ends being formed with openings, the inner walls thereof being inclined upwardly toward the end walls, feed and water troughs at opposite ends of the coops insertable in the end openings and each having an inner inclined wall corresponding to the inclination of the inner walls of the openings, short horizontal partitions extending inwardly from the solid portions of the end and side walls, inclined spaced apart strips extending from the inner edges of the horizontal partitions to the bottom of the coop in alignment with the inner walls of the end openings, and a vertically disposed central partition extending across the coop between the opposite solid portions of the side walls.

1,749,378. BRIQUETTE. RALPH T. GOODWIN, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 18, 1926. Serial No. 89,060. 7 Claims. (Cl. 44—23.)

7. A briquette containing anthracite fines and about 5 to 15% by weight of carbonaceous material precipitated by addition of a small quantity of sulfuric acid to a heavy residue of oil cracking, said material being characterized by fusibility and partial solubility in carbon disulfid.

1,749,379. TRIP-LATCH JACK. FRANK J. HINDERLITER, Tulsa, Okla. Filed Oct. 19, 1927. Serial No. 227,199. 12 Claims. (Cl. 294—110.)



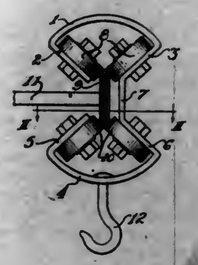
1. In combination, in a device for removing a bailer from a well, a body including an opening adapted to receive the reins of the bailer, a latch extending into said opening, means for holding said latch in said opening and adapted to be tripped by the entry of the reins in said opening, whereby said latch will be released, said latch being arranged so that upon it being tripped it will connect the reins to said body for movement therewith, and resilient means disposed in alignment with said opening adapted to maintain said holding means in contact with the bailer reins upon the tripping of said latch.

1,749,380. BAILER SPEAR. FRANK J. HINDERLITER, Tulsa, Okla. Filed Oct. 19, 1927. Serial No. 227,200. 14 Claims. (Cl. 294—96.)



1. In combination, in a spear of the class described, a tubular member adapted to be lowered into a well, and a spear member connected at its upper end to said tubular member and extending downwardly in said member, said spear member including wedge means to engage the inner surface of a tube to be raised from said well; said tubular member being arranged to embrace the outer surface of the tube being raised, said spear member being provided with vertical grooves to accommodate the broken ends of the bail links of the tube.

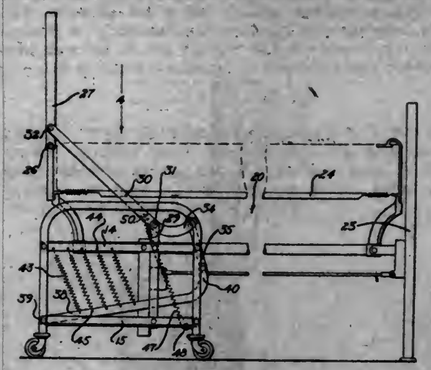
1,749,381. CONVEYER CARRIAGE. JOSEPH HUEBSCH, Milwaukee, Wis., assignor to Huebsch Mfg. Co., a Corporation of Wisconsin. Filed July 5, 1927. Serial No. 203,290. 9 Claims. (Cl. 104—93.)



1. A conveyer carriage comprising a framework having an opening in one side thereof, a carrier thereon, and a plurality of rollers rotatably mounted in said framework with the peripheries of said rollers positioned at an angle with respect to one another.

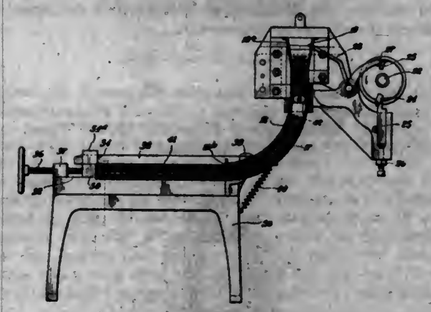
1,749,382. AUTOMATICALLY-STABILIZED FOLDING BED. FRANCIS S. INCO, Los Angeles, Calif. Filed Aug. 10, 1927. Serial No. 211,896. 10 Claims. (Cl. 5—164.)

1. In a folding bed, the combination of: a carriage; a main frame pivoted to said carriage, adapted to swing between raised and lowered position; a secondary lever pivoted to said carriage; a head-piece pivoted to said main frame; a primary lever pivoted to said head-piece and carriage; means for pivoting the free end of said secondary



lever to the free end of said primary lever; and primary tension means connected to said secondary lever and said carriage.

1,749,383. APPARATUS FOR FORMING RADIATORS. JOHN KARMAZIN, Detroit, Mich. Filed Oct. 12, 1927. Serial No. 225,703. 9 Claims. (Cl. 113—1.)



2. In combination with a sheet metal forming machine of the character described, adapted for forming tubular projections on a strip of sheet material, means for cutting said strip into elements, means for superposing said elements with the projections thereof in engaging relation, and means for horizontally compacting said elements in view of the operator.

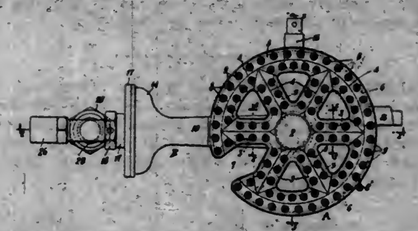
1,749,384. TRUCK FOR TOY VEHICLES. JOHN C. KOERBER, South Orange, N. J. Filed Apr. 28, 1928. Serial No. 278,460. 13 Claims. (Cl. 105—182.)



1. A toy car truck body formed to represent a standard car truck and formed of two die cast metal members removably connected together, each member comprising one side of the truck body.

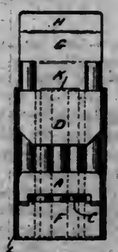
2. A toy truck comprising two members each forming one side of the truck and each member having an inwardly extending portion, and means for removably securing said portions together at their inner ends, said means also serving to secure the truck to the car body.

1,749,385. GAS BURNER. JOHN H. KOLTS, Crafton, and EDWARD A. KRAH, Jr., Pittsburgh, Pa., assignors to Pittsburg Water Heater Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed July 22, 1927. Serial No. 207,617. 9 Claims. (Cl. 158—99.)



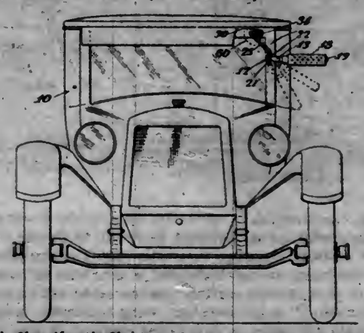
1. A gas burner comprising in combination, a hub chamber with an imperforate face, a plurality of channels radiating therefrom, and a Venturi mixer discharging thru the bottom of the hub chamber against said imperforate face.

1,749,386. LIFTING DEVICE TO FACILITATE THE REMOVAL OF CIGARETTES OR OTHER SMALL ARTICLES OF SIMILAR SHAPE FROM PACKETS AND LIKE CONTAINERS. HENRY WILLIAM MARTIN, East Kirkby, England. Filed Sept. 8, 1927, Serial No. 218,188, and in Great Britain Oct. 28, 1926. 3 Claims. (Cl. 206—41.)



1. The combination with a case open at both ends, of a drawer formed of two interengaging blanks, one of which is slotted near one end and folded at that end to form one bottom and folded at the other end to provide a closing flap for the package, and the other of which blanks passes through the slotted part of the first blank and has the contiguous end folded to provide another bottom for the package while its opposite end is folded to act as a depressor means.

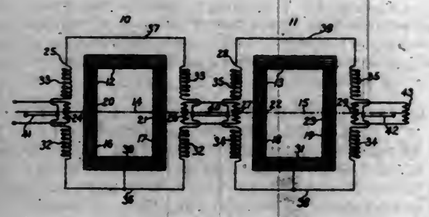
1,749,387. TRAFFIC SIGNAL. OSIE C. MATTHEWS and DOLOR F. MALCOM, San Bernardino, Calif.; said Malcom assignor to Floyd H. Jones and Pearl P. Matthews, San Bernardino, Calif. Filed June 18, 1927. Serial No. 198,431. 2 Claims. (Cl. 116—62.)



1. A direction indicator of the character described, comprising an arm adapted to be pivotally mounted on the

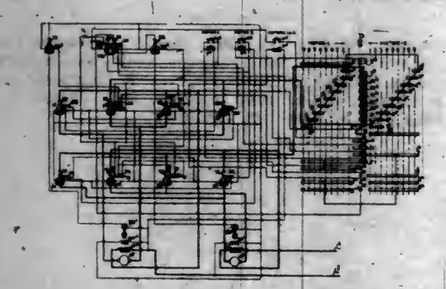
front of a vehicle adjacent one side thereof, a perforated tubular casing rigid with said arm, illuminating means arranged within said casing, a bell crank lever rigid with said arm, a shaft journalled in the front of said vehicle adjacent the top thereof, a second lever rigid with said shaft, a link pivoted to both levers, and an operating handle rigid with said shaft inside the vehicle.

1,749,388. TRANSFORMER. AUGUST MEYERHANS, Ennetbaden, Switzerland, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Oct. 25, 1927, Serial No. 228,596, and in Germany and Switzerland Nov. 8, 1926. 5 Claims. (Cl. 175—356.)



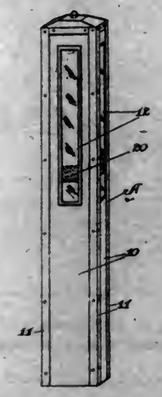
1. In a transformer, a core having an axis of symmetry and legs with substantially equal portions thereof disposed on opposite sides of said axis, a primary winding disposed on one of said legs at said axis, a second winding similar to said primary winding disposed on the other of said legs at said axis for providing a supply source for a second transformer, and parallel-connected secondary windings symmetrical with respect to said axis and disposed respectively on the leg portions of said core on opposite sides of said axis, the points of connection of said secondary windings with each other being disposed substantially on said axis.

1,749,389. CONTROLLER FOR ELECTRIC MOTORS. WILLIAM R. MILBURN, Shorewood, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 26, 1926. Serial No. 150,939. 19 Claims. (Cl. 172—179.)



1. In combination, a plurality of electric motors, common resistance to be included in circuit with one or more of said motors, a master controller for commutating said resistance, and means including a plurality of manually operable push button switches cooperating with said master controller, said switches being operable selectively to provide for joint or individual control of said motors upon a given operation of said master controller.

1,749,390. TRAFFIC SIGNAL. ALVIN O. OLAFSON, St. Paul, Minn., assignor, by direct and mesne assignments, to National Traffic Signal Company, St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 18, 1927. Serial No. 234,167. 10 Claims. (Cl. 116—63.)



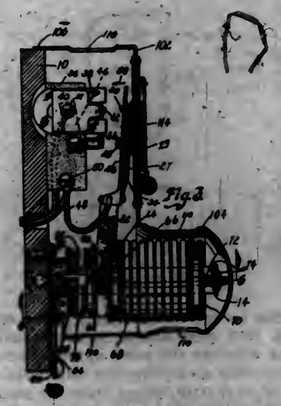
1. A traffic signal comprising, a signal window extending longitudinally along the side thereof, a color screen for changing the signal extending virtually the length of said window, and an indicator intercepting the signal to indicate the change of the same.

1,749,391. BEARING. HERBERT PATTERSON, Greenfield, Mass., assignor of one-half to Edward M. Abercrombie, Deerfield, Mass. Filed June 25, 1927. Serial No. 201,298. 1 Claim. (Cl. 308—237.)



A bearing comprising, in combination, a bearing housing having a radial opening, the inner and outer portions of which are of two different diameters, the inner portion being of smaller diameter and having smooth walls throughout its length and the outer portion being of larger diameter and having smooth walls on its inner part and being internally threaded on its outer part, an annular seat being provided between said inner and outer portions, a bushing positioned within the bearing housing and having a radial opening registering with the inner portion of the opening in the housing and of the same diameter, a keeper for preventing movement of the bushing in the housing, the keeper comprising a smooth walled pin portion positioned in the inner portion of the opening in the housing and extending into the opening in the bushing and provided with a passage therethrough for the delivery of lubricant, and a top portion of enlarged diameter having smooth outer walls and fitting loosely within the smooth walled part of the outer portion of the opening in the bushing, said top portion being hollow to hold a supply of lubricant and having an annular shoulder to engage said seat, and a closure for the outer end of the opening in the bushing provided with an externally threaded portion to fit within the threaded portion of said opening and to engage the top of the keeper to clamp the latter with its shoulder in firm engagement with the annular seat, and also provided with means external of the bearing whereby the closure may be rotated to clamp the keeper in position under pressure.

1,749,392. TEMPERATURE CONTROL SWITCH STRUCTURE. ALBERT PENN, Des Moines, Iowa, assignor to Penn Electric Switch Co., Des Moines, Iowa, a Corporation of Iowa. Filed Mar. 10, 1928. Serial No. 260,796. 12 Claims. (Cl. 200—140.)



1. A structure of the character disclosed comprising a stationary contact, a yoke, a movable armature pivoted thereto, a contact carried by said armature and adapted to engage the stationary contact when the armature is in one position of its movement, a magnet, said armature being in close proximity to said magnet when in such position whereby a snap action switch is provided, a bellows having one end anchored to said yoke and its other end acting upon said armature for moving it in one direction and a spring opposing the action of said bellows.

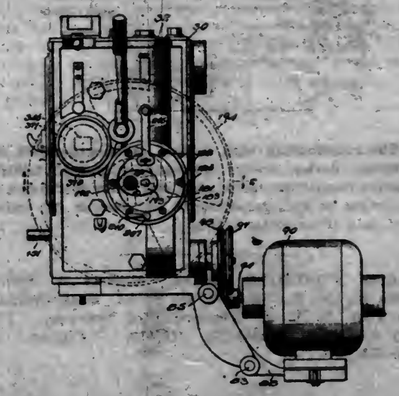
1,749,393. DRAWING DEVICE FOR SPINNING FRAMES AND FOR PREPARING MACHINERY. JULES PFLIMLIN, Mulhouse, France. Filed Nov. 10, 1928, Serial No. 318,558, and in France and Great Britain May 29, 1928. 8 Claims. (Cl. 19—141.)



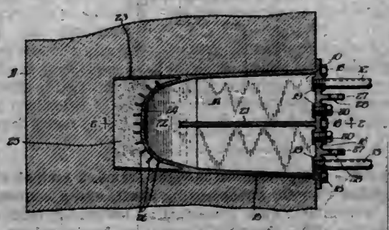
1. In drawing devices for spinning frames and preparing machinery, a sleeve for floater rollers formed of very elastic material and comprising a hub portion and an outer skin, the arrangement being such that the suppleness and compressibility of the floater is increased by providing hollow compartments between the hub and the skin.

1,749,394. MOTION-PICTURE-PROJECTING APPARATUS. JOHN PROKSA, Chicago, Ill., assignor to Helios Corporation, Chicago, Ill., a Corporation of Delaware. Filed Mar. 21, 1925. Serial No. 17,337. 3 Claims. (Cl. 88—17.)

2. In an apparatus of the kind described, a housing for encasing film-projecting mechanism, means for displacing the shutter in a plane normal to its axis of rotation comprising a circular recess in said housing, a bracket having an annular flange, said annular flange seated in said recess, a collar secured to said housing and engaging said annular flange to hold same in said recess, a handle on said bracket for adjustably rotating said bracket in said recess, and means for forcing a portion of said collar firmly against said annular flange for holding said bracket in adjusted position.



1,749,395. INWALL COOLING PLATE. OWEN R. RICE, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed Oct. 22, 1927. Serial No. 227,963. 5 Claims. (Cl. 122—6.1.)



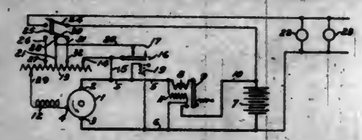
1. An inwall cooling plate comprising a casing having a water compartment and a recessed nose, the wall between said compartment and nose recess being tapered in a manner to provide a portion of said water compartment projecting centrally into said recess, and refractory material in said recess and surrounding said projecting portion of said water compartment.

1,749,396. SOLDERING IRON. JOHN F. SCHYLANDER, Chicago, Ill. Filed Oct. 19, 1927. Serial No. 227,087. 15 Claims. (Cl. 219—26.)



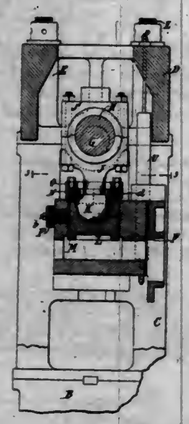
2. A device of the kind described comprising a soldering tip, means carrying said tip, tubular metallic members mounted in said means, and adapted to be connected to a source of electrical energy, and an electrical heating unit mounted in said means and provided with electrical terminal members insertable in said tubular metallic members and slidably engageable therewith.

1,749,397. ELECTRICAL SYSTEM. FRANKLIN W. SPRINGER, Minneapolis, Minn. Filed Apr. 27, 1925. Serial No. 26,100. 38 Claims. (Cl. 171—318.)



1. The combination with a third brush generator, of a translating device, means for connecting said translating device to said generator, and means for increasing the total output of said generator in response to the connection of said translating device.

1,749,398. PUNCHING PRESS. ROBERT W. STROUT, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed May 21, 1928. Serial No. 279,413. 7 Claims. (Cl. 164—28.)



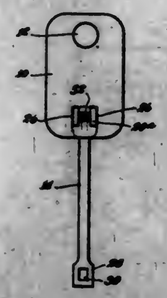
1. A press comprising an upright frame, a reciprocating slide guided therein, an operating shaft, and a connecting rod of invariable length transmitting movement from said shaft to the slide, the slide comprising two members, one of which has pivotal engagement with the connecting rod, and the two slide members having vertically adjustable relation, so that without varying the length of the connecting rod the effective portion of the slide may be set to varying vertical adjustments.

1,749,399. KEY TAG. REUEL H. THAYER, New York, N. Y., assignor to Thayer Telkee Corporation, San Francisco, Calif., a Corporation of California. Filed Apr. 6, 1926. Serial No. 100,083. 3 Claims. (Cl. 40—21.)



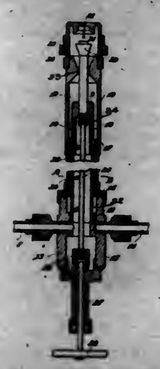
1. In an identification tag for a key, a face portion, a dished flange around the edge thereof, said face having an opening near the edge thereof, a back portion, a dished flange around the edge thereof adapted to fit inside of the flange on said face portion to hold said back and face portions together, and a key engaging link integral with said back portion, said link having an opening near the end thereof, a hook integral with said face portion and on the inner side thereof adjacent the opening therein, said link passing through the opening in said face, the opening therein engaging said hook.

1,749,400. IDENTIFICATION KEY TAG. REUEL H. THAYER, Los Angeles, Calif., assignor to Thayer Telkee Corporation, San Francisco, Calif., a Corporation of California. Filed Mar. 16, 1928. Serial No. 262,219. 5 Claims. (Cl. 40—21.)



1. A marker for keys comprising a tag, a strip attached to said tag, said strip having means forming a pocket with the tag adjacent the point of attachment thereto, a tongue on the strip projecting into said pocket, and means on the end of said strip remote from the point of attachment projecting into said pocket and cooperating with said tongue to permanently secure both ends of the strip together adjacent the tag.

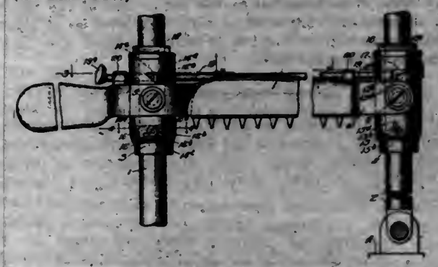
1,749,401. OIL BURNER. BARNARD J. TIDY, Port Alice, British Columbia, Canada. Filed Apr. 19, 1928. Serial No. 271,295. 1 Claim. (Cl. 158—75.)



An oil burner comprising, a connection head or body member, pipe branches on said body member adapted to receive pipe connections for the supply of fuel and steam respectively, a tubular casing secured at one end to said body member, a conical aperture in the outer extremity of said casing, a rod through said casing with its axis coincident with that of the casing and having a coned extremity adapted to engage the said conical aperture in the end of the casing, a hand wheel on the other extremity of said rod, an interior tubular member secured to said body member communicating with said steam pipe branch, longitudinal flutings in the outer periphery of said interior member whereby its heating surface is augmented and a

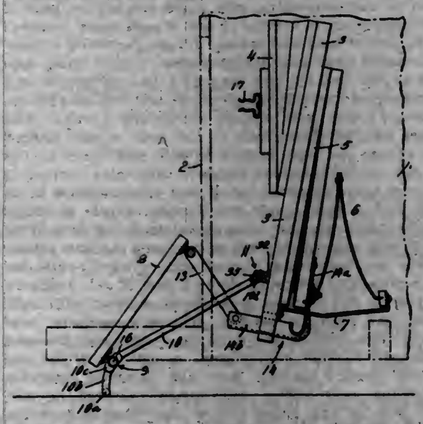
plurality of channels is provided for the passage of the fuel oil, a duct connecting the said channels with the said body member and the said fuel pipe branch, an oil disc forming a perforated annular extremity to the chamber formed by the said casing and the said interior member, said disc having on its outer and inner peripheries helical grooves through which the heated fuel oil passes into the atomizing chamber adjacent the outer extremity of the said casing, a portion of the said interior member projecting beyond the said oil disc and having perforations in its circular wall whereby steam issuing therethrough from the said interior central member unites with the heated fuel oil issuing from the said helical grooves thereby completing the atomizing process.

1,749,402. SLICING MACHINE. WILHELMUS PETRUS VAN LAMMEREN, Voorschoten, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed May 5, 1928, Serial No. 275,401, and in Great Britain May 25, 1927. 23 Claims. (Cl. 146—217.)



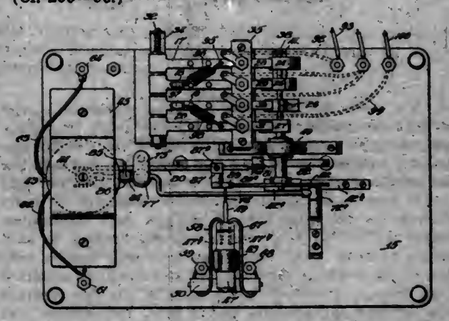
1. In a work clamp for slicing machines, a sleeve member, a rod member disposed in said sleeve member, one of said members being guided for sliding movement by the other of said members and a clamp bar carried by said sliding member, a friction element disposed between said members frictionally engaging said rod member to releasably hold said members against relative sliding movement, said friction element having a separate releasing means connected therewith and supported on one of said members to disengage said friction element from said rod member and permit relative movement between said members.

1,749,403. PEDAL MEANS FOR AUTOMATIC PIANOS AND THE LIKE. FRED VOLARE, Scotch Plains, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Feb. 24, 1927. Serial No. 170,581. 6 Claims. (Cl. 84—78.)



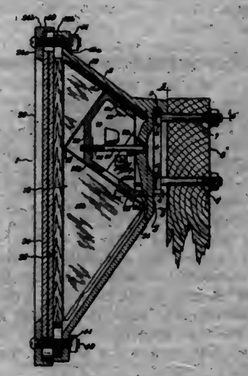
1. Pedal means for automatic pianos and the like, adapted to be folded up into the piano and also to be unfolded and lowered into supporting contact with the floor, comprising the combination of two U-shaped frames each comprising two side bars connected by a cross piece, the cross pieces of which rest on the floor when said frames are down in position for the pedals to be used, the side bars of said frames being pivotally supported at their free ends within the piano; a rod extending transversely through the side bars of said frames parallel and adjacent to their cross pieces for supporting the pedals; and means on the free ends of said rod engaging the outer side bars of the two frames.

1,749,404. ELECTRIC-CIRCUIT CONTROLLING AND TIMING DEVICE. HARRY C. WANNER and LEROY H. MOSS, Chicago, Ill.; said Moss assignor to said Wanner. Filed Oct. 26, 1927. Serial No. 228,726. 18 Claims. (Cl. 200—90.)



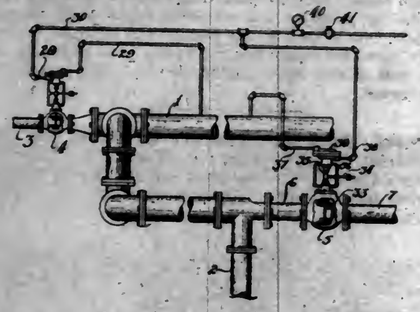
1. In a device of the character described, the combination of a solenoid having a reciprocable core, a mercury switch mounted on a tiltable support and connected to a source of electric energy through said solenoid, a lever having one end rotatably supported and the other end engaging said solenoid core for movement therewith and being also connected to said switch support to tilt said switch to energize and deenergize said solenoid and reciprocate said core, a rotatable contact actuating member, a driven wheel carried by said member, and a drive element connected to said lever and engaging said wheel for imparting motion to said contact actuating member.

1,749,405. REFLECTOR SIGNAL. JOHN A. WERTZ, Canton, Ohio. Filed Nov. 2, 1927. Serial No. 230,501. 8 Claims. (Cl. 88—1.)



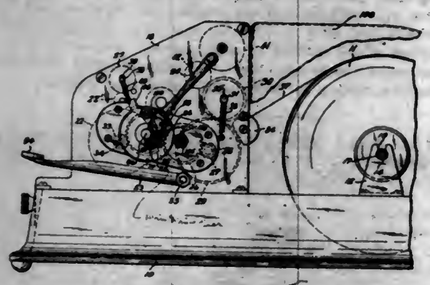
4. A reflector signal including a casing, a reflector mounting block secured to the casing, a plurality of plane reflector surfaces intersecting each other at right angles carried by the mounting block, and cooperating means between the mounting block and casing permitting independent expansion and contraction of the reflector surfaces and the casing.

1,749,406. VALVE-CONTROLLING APPARATUS. JOHN O. WOODSOMB, Detroit, Mich. Original application filed June 16, 1926, Serial No. 116,806. Divided and this application filed Dec. 12, 1927. Serial No. 239,504. 4 Claims. (Cl. 34—48.)



1. In a steam drying system for paper machines, a drier header, a low pressure steam supply line and a live steam supply line for said header, an exhaust line, diaphragm regulated valves between said live steam line and said low pressure line and between said low pressure line and said exhaust line, a source of fluid under measured pressure connected to the same side of each of said diaphragms connecting the other sides of said diaphragms to said header, whereby when the pressure in said header falls below the pressure of the fluid, live steam will be admitted to the header and when the pressure of the low pressure steam exceeds the pressure of the fluid, the exhaust line valve will be opened.

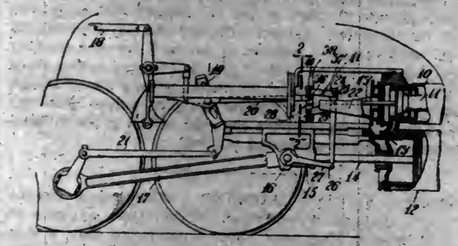
1,749,407. GUMMED-TAPE-DISPENSING MACHINE. RAY G. BEACH, Fairfield, Conn., assignor to Hugh Lavery, Bridgeport, Conn. Filed Jan. 28, 1925. Serial No. 4,247. 4 Claims. (Cl. 91—14.5.)



4. In a tape dispensing device of the character described, means for intermittently advancing a tape capable of permitting elapse of time between successive advancing movements, means for moistening one side of the strip comprising a container, a rotary roll projecting into the container to remove moisture therefrom, a fibre covered roll in contact with the first roll to receive moisture from said roll, said fibre cover being in contact with the tape and adapted to absorb the moisture and retain it during the intervals between advancing movements of the tape so that it will remain moist in these intervals and will immediately moisten the tape on its next advance movement prior to the time additional moisture can be supplied by the first roll and means for holding the tape against the second roll.

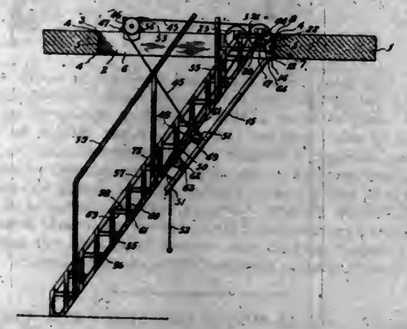
1,749,408. LOCOMOTIVE VALVE GEAR. FRANK H. BENTON, Topeka, Kans. Filed Feb. 10, 1927. Serial No. 167,092. 2 Claims. (Cl. 121—163.)

1. In combination with a valved chamber head, a valve stem cross-head, a locomotive valve gear involving a combination lever and a radius rod, a rearwardly disposed bracket secured to the valve chamber head, a vertically disposed lever fulcrumed at its lower end on said bracket, a horizontally disposed link pivotally connected at one end to the upper end of said lever while the other end of the



link is pivotally connected to the upper end of the combination lever of the valve gear above its connection to the valve stem cross head, while the radius rod of the valve gear is pivotally connected to said first lever at a point below the pivotal connection of said first lever with said horizontally disposed link.

1,749,409. MOVABLE STAIRWAY. FRANK E. BESSLER, Akron, Ohio, assignor to The Bessler Disappearing Stairway Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 13, 1928. Serial No. 253,811. 11 Claims. (Cl. 226—50.)



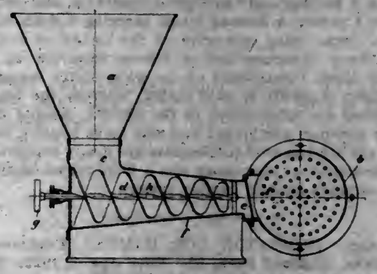
1. A movable stairway comprising, in combination with a ceiling-opening metal frame formed with upper and lower peripheral angle members, and end plates and side plates secured to and connecting said angle member; a pair of spaced hanger plates secured to one of said angle members adjacent one of said end plates; hinges vertically adjustably mounted upon said hanger plates; a steel panel supported at one end by said hinges; a pair of spaced box supports secured to said hanger plates and said side plates, respectively, each box support comprising vertical side members secured respectively to the ends of said hanger plates at one end and secured to said side plate at the other end, one of said side members being also secured to said upper angle member, one of said side members being formed with a right angle end portion, a pair of longitudinally-spaced vertical open-top slots being formed in each of said side members adjacent said hanger plates, said side members being formed with upwardly-extended tongues projecting into said slots; a pair of axle members formed with end recesses adapted to register with said tongues; end plates secured to said axle members, having web bars also adapted to fit said axle recesses, and secured to said side plates; a pair of drums for each box housing having both hub portions rotatably mounted on said axles; coil springs secured at one end to each of said axles and at the other end to the side walls of said drums, respectively; a bar connecting said pair of box supports adjacent said hanger plates; a

pair of rollers rotatably mounted on said bar adjacent the ends thereof; a pair of pulleys rotatably mounted on opposite sides of said metal frame adjacent the end thereof opposite to said hanger plates; pulleys movably secured to said panel; cables secured to one of each pair of drums at one end, traversing said first-mentioned pulleys, and connected at their other ends to said second-mentioned pulleys, respectively; a steel stairway; cables secured at one end adjacent the bottom of said stairway and secured at the other end to the other of each pair of drums, respectively; a pair of rollers mounted upon said panel adjacent the lower end thereof, said stairway being longitudinally movable of said panel upon said last-mentioned rollers and also upon said rollers mounted on said bar connecting said box supports; means for guiding said stairway; and means for preventing the latter from jumping off said rollers.

1,749,410. METHOD OF TREATING WOOL AND THE WOOL THUS TREATED. CHARLES A. BROWN, Salem, and GUSTAVUS J. ESSELEN, Jr., Swampscott, Mass., assignors to Manufacturing Improvement Corporation, Boston, Mass., a Corporation of Massachusetts. Filed July 23, 1927. Serial No. 208,050. 4 Claims. (Cl. 19—66.)

1. The method of treating fibre for the production of woolen or worsted fabrics and the like, which consists in treating the scoured and washed fibre with a mechanically stabilized emulsion of an oil lubricant and water, in which the oil is dispersed throughout the water in relatively minute globules to produce an emulsion which has the flow characteristics of water and is capable of accomplishing a thorough and effectual penetration of the mass of the fibres, and which inhibits evaporation of water therefrom for a sufficient period of time to permit a complete processing of the fibre into the finished fabric without substantial alteration of the lubricating properties and thereafter processing the fibres while so lubricated.

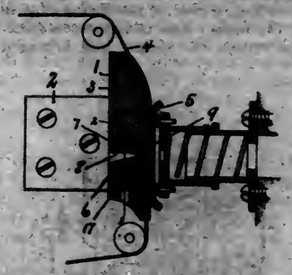
1,749,411. APPARATUS FOR PRODUCING FOAM FOR FIRE-EXTINGUISHING PURPOSES. HANS BURMEISTER, Berlin, Germany, assignor to Pyrene-Minimax Corporation, a Corporation of Delaware. Filed Sept. 10, 1927, Serial No. 218,809, and in Germany Oct. 26, 1926. 6 Claims. (Cl. 169—15.)



1. In apparatus for producing fire foam, a worm gear for forcing the chemicals for producing the foam into a current of water under compression and subdividing means for said chemicals mounted within the pressure water pipe.

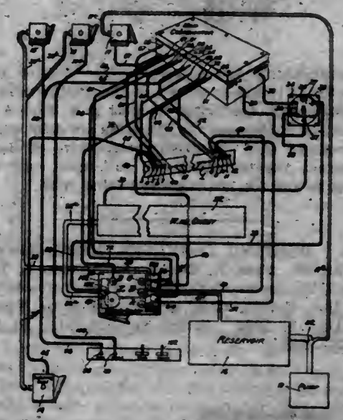
1,749,412. TALKING-PICTURE APPARATUS. THEODORE WILLARD CASE, Auburn, N. Y., assignor to Case Research Laboratory Incorporated, Auburn, N. Y., a Corporation of New York. Filed Dec. 10, 1926. Serial No. 154,007. 3 Claims. (Cl. 179—100.31.)

2. A talking picture apparatus, comprising a base having a track over which a film is adapted to slide, a slit-containing member mounted in said base adapted to be rotated about an axis parallel to a beam of light passing through the slit in said member and to be moved toward and from a film sliding on said track, means for moving said slit-containing member toward and from said film



and rotating said member about said axis, and means for securely holding said slit-containing member in a predetermined position.

1,749,413. EXPRESSION DEVICE FOR AUTOMATIC MUSICAL INSTRUMENTS. TOLBERT F. CHEEK, New York, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Jan. 4, 1924. Serial No. 684,352. 4 Claims. (Cl. 84—124.)

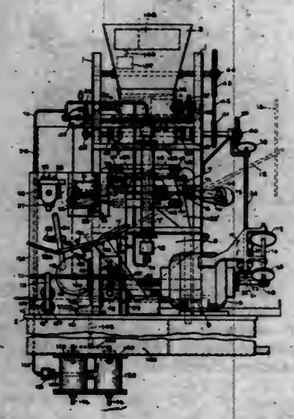


1. Expression regulating mechanism for automatic musical instruments comprising the combination with a tracker bar and a source of power supply, of a unitary expression regulator adapted to operate in accordance with the expression perforations of any one of a plurality of different note sheets, means for effecting coordination of the nomenclature of expression apertures of the tracker bar in accordance with said different note sheets, means for rendering said expression regulator operative in accordance with the particular note sheet used, said expression regulator being adapted to be directly operated initially through tracker bar expression apertures in the case of a note sheet of one type, and an auxiliary coordinator forming part of said expression regulator, said auxiliary coordinator being directly actuated initially through expression apertures of said tracker bar, and means for causing said auxiliary coordinator to effect operation of said expression regulator in accordance with a particular note sheet.

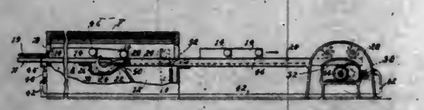
1,749,414. AUTOMATIC WAFFLE MACHINE. CARL O. CHRISTIANSON, Merriman, Nebr., assignor to Super-Automatic Food-Machine Corporation, Valentine, Nebr. Filed Dec. 5, 1928. Serial No. 323,815. 11 Claims. (Cl. 107—4.)

1. In a waffle machine, a frame, baking-grids arranged in pairs and mounted on the frame, a housing having dis-

charge apertures and disposed above the baking-grids, a pair of cylindrical mixing-receptacles in the housing each having a discharge-aperture and an intake-aperture, a hopper on the housing, a pair of measuring-cups in the housing between the hopper and mixing-receptacles for receiving ingredients from the hopper and arranged to be rotated approximately 180 degrees for discharging said ingredients to the intake-apertures of the mixing-receptacles, said mixing-receptacles being movable in a circle's arc of approximately 90 degrees for disposing its discharge-aperture in register with the discharge-aperture of the housing to permit the ingredients to fall upon said baking-grids, and means for heating the baking-grids.



1,749,415. DUMPING CONVEYER MECHANISM FOR FURNACES. FRED R. COLBY and ARNOLD L. LARSEN, Toledo, Ohio, assignors to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Dec. 8, 1927. Serial No. 238,731. 16 Claims. (Cl. 198—218.)

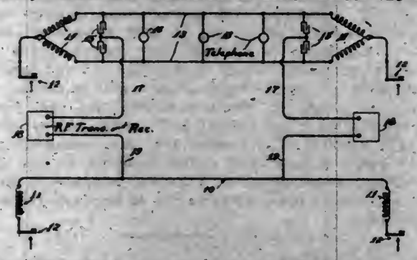


1. A conveyor comprising in combination, a track having its continuity interrupted by an unbridged space, containers adapted to be moved along the track, means reciprocable alongside said space, and means for establishing pivotal connection between the containers and said reciprocable means to move the containers across said space whereby the containers may tilt about the connection to dump the container contents into said space in moving thereacross.

15. In combination, a track having an unbridged space, pans movable on said track, trunnions projecting from the pans laterally of the track, means for moving the pans toward said space, and separate means at the sides of said space for moving the pans thereacross while hanging from their trunnions.

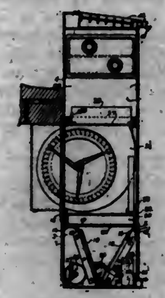
1,749,416. TELEPHONE AND TELEGRAPH CIRCUITS. JOHN W. COOK, Topeka, Kans. Filed Apr. 8, 1925. Serial No. 21,486. 2 Claims. (Cl. 179—25.)

1. Telephone and telegraph circuits comprising sending and receiving telephone and telegraph apparatus, line circuits, a superimposed circuit on said line circuits involving additional sending and receiving apparatus, air choke coils connected in series between the first mentioned telegraph sending and receiving apparatus and the ends of the telegraph portion of the line circuits, and small capacity condensers connected in series across the line



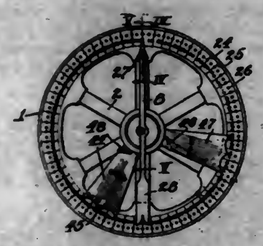
wires of the telephone portion of said line circuits so as to provide a connection for the super-imposed circuit to the telephone portion of the circuits of equal capacity to both sides of said line wires of the telephone portion of the line circuits.

1,749,417. UNIT HEATING AND VENTILATING APPARATUS. HERMAN CHARLES DAVIS and LEWIS D. HARNETT, Columbus, Ohio, assignors to The Buckeye Blower Company, Columbus, Ohio, a Corporation of Ohio. Filed June 10, 1927. Serial No. 197,984. 12 Claims. (Cl. 257—187.)



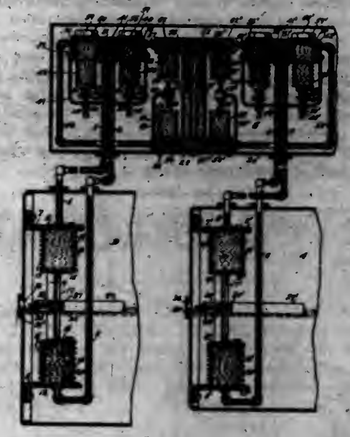
4. In a heating and ventilating apparatus, the combination of a casing, a damper frame carrying a damper, said damper frame being supported on the bottom of said casing, blower housings and a blower mounted on said damper frame independent of the walls of the casing and a radiator mounted on said casing, whereby the walls of the casing are independent of the damper, damper frame, blower housings and blower and may move relative thereto while the aforementioned elements are firmly supported on the foundation of the casing, and a filter frame carrying a filter mounted on said damper frame.

1,749,418. INDICATOR FOR GAMES. THEODORE H. DECKER, Highland Park, Ill. Filed Apr. 1, 1929. Serial No. 351,583. 6 Claims. (Cl. 116—133.)



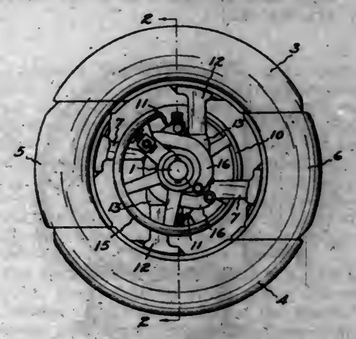
1. An indicator including a fixed wheel-like dial having indicia thereon, a ring of spaced pegs on said dial, a rotatable pointer movable over said dial, a ratchet wheel connected to said pointer for moving it in one direction, a spring finger carried by said pointer for contacting said pegs, a movable member carrying a pawl for engaging said ratchet wheel, and means for moving said member.

1,749,419. TANK INDICATOR. CLARENCE A. DE GIERS, New York, N. Y., assignor, by mesne assignments, to The Liquidometer Corporation, Wilmington, Del., a Corporation of Delaware. Filed Feb. 25, 1921. Serial No. 447,640. 12 Claims. (Cl. 73—82.)



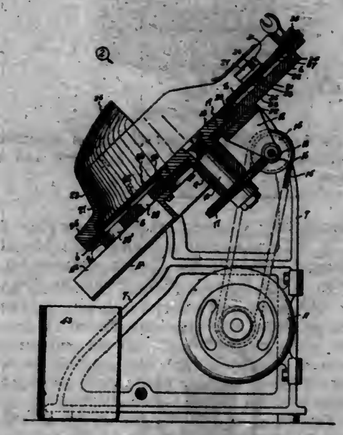
7. The combination of a tank, a float therein, an indicator gauge glass, fluid containing connections at each end of the glass, different colored fluids in the connections meeting in the glass, means including two flexible-walled compressible and expansible chambers which are operated by the rise and fall of the float in the tank for causing the liquids to advance or recede in the connections and in the glass, and means including expansible chambers in the connections acting to compensate for expansion or contraction of the fluids therein due to temperature changes without causing variations of the fluid level at the indicator.

1,749,420. COLLAPSIBLE CORE. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 5, 1928. Serial No. 259,287. 5 Claims. (Cl. 154—9.)



1. The combination with a support, of a shaft projecting outwardly from said support, and an annular tire core composed of collapsibly mounted main and key sections, said main and key sections being independently mounted on said shaft and relatively movable longitudinally of the shaft to position the main sections clear of the key sections to permit collapse of the main sections, said main sections being supported on said shaft outwardly of said key sections whereby a tire supported on the main sections may be directly removed from said main sections over the outer end of said shaft.

1,749,421. COIN ASSORTER. EDWARD P. DONNELLAN, Brooklyn, N. Y., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 16, 1927. Serial No. 219,905. 8 Claims. (Cl. 133—8.)

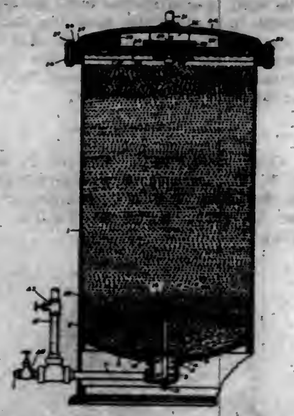


1. In a coin assorting machine having an inclined base plate provided with assorting openings adapted to discharge coins therethrough selectively as to size and a rotatable spindle centrally journaled in said base plate, a pair of axially spaced flat disc-like conveyer plates mounted on said spindle so as to be rotated thereby, the lower conveyer plate being disposed to ride slidingly on said base plate so as to discharge coins conveyed thereby through said assorting openings of the latter, a stationary partition plate intermediate said conveyer plates, said conveyer plates having conveyer openings to receive and carry coins singly and flatwise therein, the openings of said lower conveyer plate being aligned respectively with corresponding openings of said upper conveyer plate, and said partition plate having a transfer opening aligned in the path of movement of the conveyer openings of said conveyer plates, said transfer opening being positioned in advance of the assorting openings whereby coins are transferred from conveyer openings of the upper conveyer plate to corresponding conveyer openings of the lower conveyer plate before they may be discharged through the assorting openings.

1,749,422. WATER SOFTENER. CHARLES P. EISENHAUER, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 30, 1928. Serial No. 250,537. 4 Claims. (Cl. 210—24.)

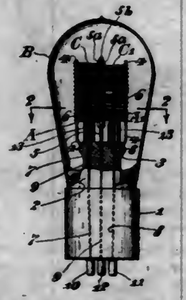
1. In combination, a softening tank, a gravel bed in the bottom thereof, a retaining means for said gravel, softening material mounted thereon, a relatively fine retaining screen spaced from the top of said mineral at the top of the tank, exit means at the top of the tank beyond said screen, a hard water and brine inlet at the

bottom of said tank, an injector in said inlet, predetermined orifices for said means to control said hard water and said brine, and a distributor at the bottom of said



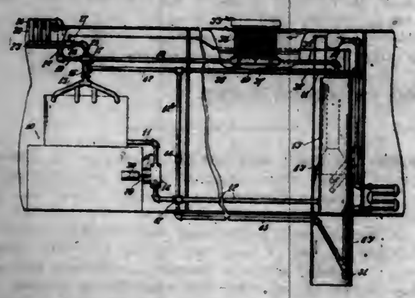
tank where the fluid enters the gravel, and a distributor at the top of the tank between the exit line and the retaining screen.

1,749,423. ELECTRIC VALVE. ALMON N. FENTON, Collingswood, N. J., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 11, 1927. Serial No. 198,181. 12 Claims. (Cl. 250—27.5.)



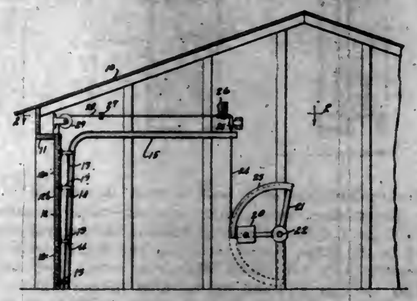
9. An electric valve of the glow discharge cold electrode type comprising, in an atmosphere of helium, a hollow foraminous cathode structure of tantalum, and a plurality of rod-like anodes disposed therein.

1,749,424. MOTOR HEATING AND COOLING SYSTEM. GERALD D. GORDON, Marion, Iowa. Filed May 2, 1927. Serial No. 188,262. 2 Claims. (Cl. 123—174.)



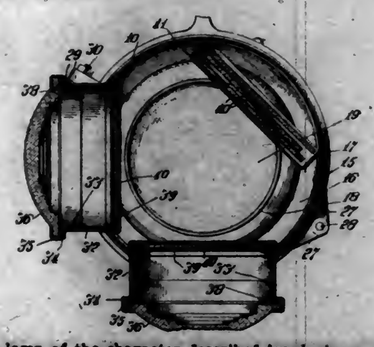
1. A system of the character described comprising, in combination with a water-cooled engine, a water supply tank capable of holding all of the water of said system, radiator sections arranged above the level of the water-jackets of said engine, said sections being independently controllable, an automatically controlled pump having connection with the lower end of said tank and with the lowest point of water-jacket of said engine, temperature controlled mechanism intermediate of the pump and the engine whereby the pump is placed into operative relation with the engine when a predetermined temperature is reached, a common connection between the upper ends of said water-jackets and the lowest points of said radiator sections, means for separately controlling the flow to the different radiator sections, a return line intermediate of the highest points in said radiator sections and the upper end of said tank, thermostatically controlled means in said common connection, a by-pass intermediate of said thermostatically controlled means and said return line whereby water from the water jackets of the engine may be made to circulate through said radiator sections before returning to said tank when the temperature is above a predetermined degree and made to flow through said by-pass and back to said tank when the temperature is below said predetermined degree.

1,749,425. CLOSURE OPERATOR. MARCUS R. HARRIS, Detroit, Mich. Filed Feb. 15, 1926. Serial No. 88,277. 1 Claim. (Cl. 20—19.)



Counterweight means for doors adapted to be lifted from closed position and guided to horizontal open position wherein said doors are supported by the guiding means, said counterweight means consisting of a sector of a grooved pulley having spokes, a weight secured to one of said spokes, and a cable connection from the outer end of said weighted spoke to said door, said cable being of such length that said weighted spoke assumes a horizontal position with the rest of the sector above, when said door is in closed position.

1,749,426. LAMP. JOSEPH F. R. HEINISCH, Topeka, Kans. Filed Nov. 14, 1927. Serial No. 232,967. 1 Claim. (Cl. 240—22.)



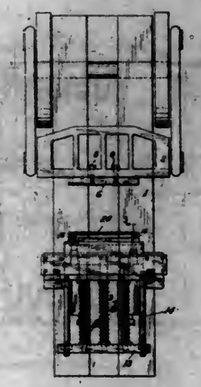
In a lamp of the character described involoving a main casing provided with a pair of light emitting openings,

in the sides thereof arranged substantially at right angles to each other, a supporting frame disposed about the lower end of the casing and consisting of a pair of ring segments hingedly connected together at one end while the other end of each segment is adapted to receive a fastening bolt or screw, at least one of said segments having an outwardly extending socket engaging lug, means whereby the position of the ring segments and said lug relative to the light emitting openings in the casing is determined, the inner perimeters of the ring segments being each provided with an upstanding semi-circular flange, and a removable bottom provided with an upwardly extending flange having an outwardly disposed annular rib adapted to engage with the inner flanges of said ring segments.

1,749,427. TREATING BUTTER. CHARLES HOFFMAN, Tuckahoe, and THOMAS ROBERT SCHWEITZER, Ozone Park, N. Y., assignors to Ward Baking Company, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1925. Serial No. 74,919. 6 Claims. (Cl. 99—11.)

1. The method of improving the whipping quality of butter which consists in agitating it at a temperature where the fat is soft enough to permit of a uniform mixing of the constituents and below the temperature at which the constituents separate and refrigerating sufficiently for the butter fat to harden.

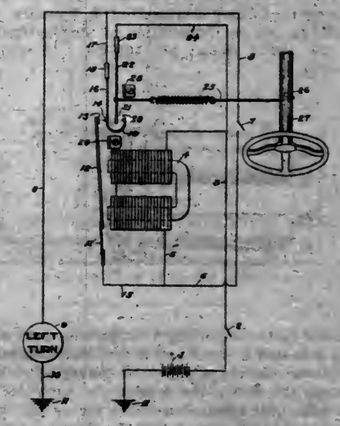
1,749,428. METHOD AND MEANS FOR FORMING HOLLOW ARTICLES. EARL K. HOLMES, Cleveland, Ohio, assignor, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed May 27, 1926. Serial No. 111,990. 9 Claims. (Cl. 153—48.)



1. Apparatus for changing the cross sectional configuration of a hard steel tube which comprises a suitably recessed die, means for advancing the said die, an oppositely disposed die toward which the first said die may be advanced and being suitably recessed, the second said die being composed of a plurality of parts, certain of the parts projecting above others of the parts, means for yieldingly supporting the said projecting parts, means for yieldingly supporting the remaining parts of the said die, and means for fixedly supporting all of the parts of the die at one end of the stroke.

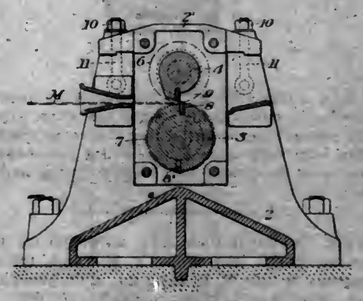
2. The method of shaping a length of brittle metal tubing which comprises placing the tubing between spaced dies, causing relative movement of the dies to compress the tubing therebetween, and causing one of the dies to yieldably with progressively increasing force resist the movement of the opposing die until the cross-sectional configuration of the length of tubing is changed.

1,749,429. INDICATING SYSTEM. ERWIN C. HORTON, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed Aug. 24, 1926. Serial No. 131,169. 7 Claims. (Cl. 177—339.)



1. In a signaling system for motor vehicles; a presetting circuit comprising a source of electrical energy, an electromagnet, a manually set switch which opens when released from the hand, and a signaling device all connected in series; a retention circuit interconnected with the first circuit for shunting the manually set switch and comprising an armature for the electro-magnet, and a movable switch part with which said armature, when attracted, normally engages for closing the retention circuit therethrough; and an action circuit closable upon the initiation of the preindicated action and adapted to be opened upon the substantial completion of the preindicated action, said action circuit comprising a switch part movable by and during movement of a part of the vehicle which part is moved to effect the preindicated action, said second switch part first moving into engagement with said first switch part to close the action circuit therethrough and thereby shunt the electromagnet, and then moving said first switch part from electrical contact with said armature for breaking said retention circuit.

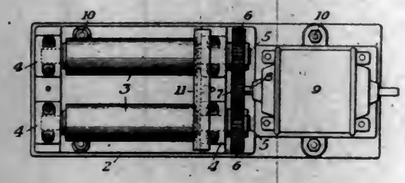
1,749,430. ROTARY SHEARS. LORENZ IVERSEN, Pittsburgh, Pa. Filed Apr. 3, 1926. Serial No. 99,595. 1 Claim. (Cl. 164—66.)



In a shear, a rotor having a single blade thereon, a second rotor having a plurality of blades thereon, and means for bringing a predetermined blade on said last mentioned

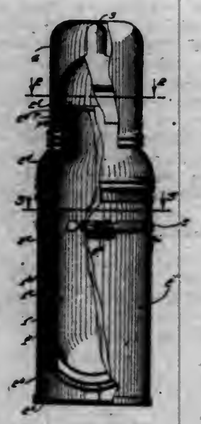
rotor into shearing relation with the blade on said first mentioned rotor once during a plurality of revolutions of both of said rotors, substantially as described.

1,749,431. ROLL TABLE. LANE JOHNSON, Ingram, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 20, 1927. Serial No. 162,337. 12 Claims. (Cl. 198—127.)



1. A roll table comprising a supporting base, a plurality of units mounted thereon and individually removable, each of said units comprising a pair of conveying rolls, gearing for driving the same, and a separate motor for the rolls only of each unit bodily removable therewith, the driving means of each unit being relatively disconnected from the supporting rolls of the other unit.

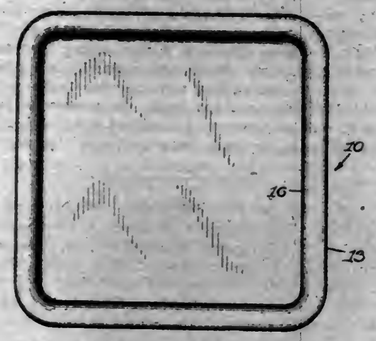
1,749,432. NURSING BOTTLE. ELIZABETH KRIEGE, San Diego, Calif. Filed June 6, 1927. Serial No. 196,786. 4 Claims. (Cl. 215—11.)



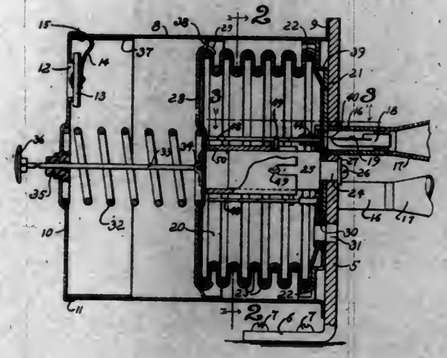
1. In a nursing bottle, a wide-mouthed vacuum wall receptacle, an outer casing spaced therefrom with a wide mouth, resilient means for holding said receptacle in spaced relation with said outer casing, and a bell-shaped nipple secured over the mouth ends of said casing and said receptacle.

1,749,433. BAKING PAN AND METHOD OF BAKING. EDWARD KUSSA and WILLIAM E. LONG, Chicago, Ill., assignors to The W. E. Long Co., a Corporation of Illinois. Filed Apr. 2, 1928. Serial No. 266,663. 1 Claim. (Cl. 53—6.)

In a device of the class described, an outer imperforate metallic vessel having a rolled edge, an inner imperforate metallic vessel having its marginal edge closed about the rolled edge of said outer vessel and forming the sole means of support of said inner vessel, said closure being sufficiently tight to hinder the free circulation of air between said inner and outer vessels but providing passages through which air may be forced by positive pressures resulting from the heating or cooling of said vessels.



1,749,434. SIGNALING DEVICE. ROGER K. LEE, Detroit, Mich. Filed Oct. 23, 1929. Serial No. 401,651. 18 Claims. (Cl. 116—139.)

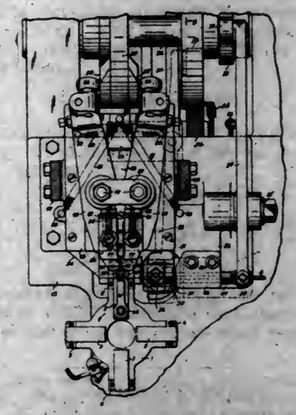


1. A signaling apparatus comprising an air motor, means for operating said motor, a signal device communicating with said air motor, a valve for controlling such communication, and means actuated by said motor operating means for operating said valve.

1,749,435. CHAIN-MAKING MACHINE. ARTHUR J. LEWIS, Stratford, Conn., assignor to The Baird Machine Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 17, 1924. Serial No. 750,237. 55 Claims. (Cl. 59—18.)

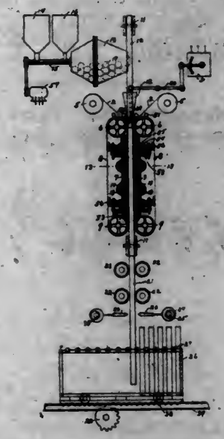
24. In a chain making machine, a movable support, a plurality of chain link holders carried by said support, means for bending a piece of wire into a loop with the ends butting, means for welding the butting ends comprising a pair of contacts to engage the link on opposite

sides of and spaced from said ends, independent slides for said contacts, means for independently operating the slides



to bring the contacts into engagement with the link, and means for indexing the support to transfer the links from the forming mechanism to the welding mechanism.

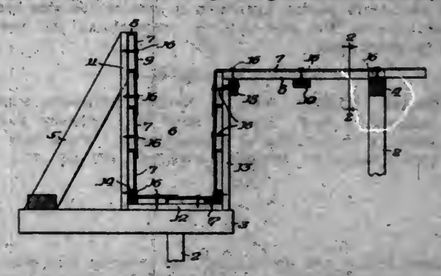
1,749,436. APPARATUS FOR MAKING PLASTER BOARD. ALBERT J. MEIER, St. Louis, Mo., assignor, by mesne assignments, to Rockwood Corporation of America, St. Louis, Mo., a Corporation of Delaware. Filed Apr. 16, 1923. Serial No. 632,426. 11 Claims. (Cl. 154—1.)



1. An apparatus for making plaster board, comprising, means for feeding the facings downwardly, side belts adapted to move with the facings, means extending along said belts for supporting the same against bulging in order to support the facings, and means for pouring the plaster downwardly between the facings so supported.

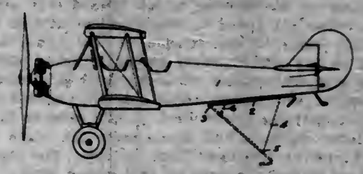
1,749,437. CONCRETE FORM. CHARLES LOUIS MEYER, Omaha, Nebr., assignor to Concrete Engineering Company, Omaha, Nebr., a Corporation of Nebraska. Filed Feb. 18, 1927. Serial No. 169,156. 2 Claims. (Cl. 25—131.5.)

1. A concrete form for corner construction comprising a pair of angle plates each having one long and one short leg, the long legs of the plates abutting one another throughout their lengths at the corner and defining the angle thereof, the short legs being directed outwardly of



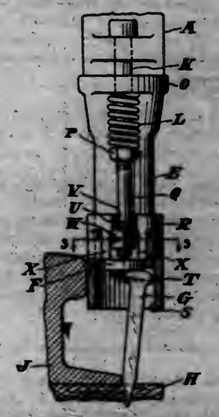
the corner, a batten extending longitudinally of said plates adjacent the juncture thereof at the exterior side of the corner to brace the edge of the long leg of one of said plates, and means securing said one plate to said batten.

1,749,438. SHOCK-ABSORBING LANDING HOOK. ROBERT J. MINSHALL, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed Sept. 12, 1928. Serial No. 305,530. 6 Claims. (Cl. 244—2.)



1. An arresting mechanism of the class described consisting of a hook the shank of which is pivotally and swingably mounted to the underside of an airplane fuselage, a fluid actuated double acting shock absorbing and dampening means interposed between said hook shank and said fuselage adapted to retard the upward movement of the hook toward the fuselage and to accelerate its opposite or downward movement.

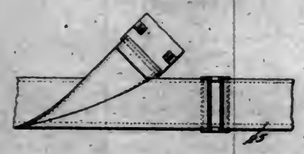
1,749,439. FASTENER-HOLDING DEVICE. ANDREW J. NEAFIE, Mountain Lakes, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 5, 1928. Serial No. 275,398. 2 Claims. (Cl. 1—5.)



1. In a fastener holding device, the combination of a hammer tool having a cylinder and a front head, side rods for clamping the cylinder and the front head in assembled

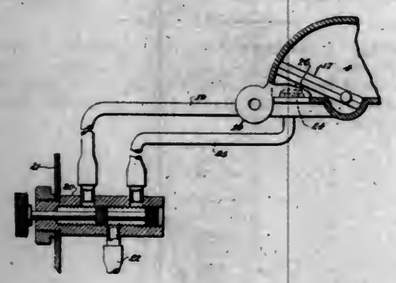
relationship, a hammer piston in the cylinder for delivering blows of impact, a sleeve slidable on the front head for guiding a fastener during the driving thereof, lugs on the sleeve having apertures to receive the side rods, and nuts on the side rods for maintaining the sleeve on the front head.

1,749,440. CLASP. NELS T. NELSON, Attleboro, Mass., assignor to J. F. Sturdy's Sons Co., Attleboro Falls, Mass., a Corporation of Massachusetts. Filed July 8, 1929. Serial No. 376,697. 1 Claim. (Cl. 24—77.)



A clasp for a band bracelet or the like comprising a pair of superimposed sheet metal members one member having spaced transverse openings to slidably position it on a ribbon band and the other having an opening through which an end of the band may be looped, integral side extensions on one member folded toward each other and thence outwardly rolled to form resilient detents presenting their edges to the tension on the band, and side flanges on the other member having inturned portions to engage said detents and releasably hold said members in engagement, said flanges being braced by spaced cut and folded up portions of the stock of said member to engage their inner surfaces and also engage the edges of said detents and at the same time to form the above said spaced transverse openings for said ribbon band.

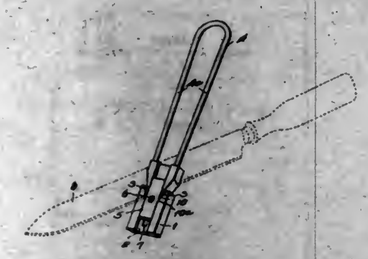
1,749,441. WINDSHIELD-CLEANER MOUNTING. JOHN R. OISHEI, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed Dec. 13, 1926. Serial No. 154,479. 6 Claims. (Cl. 15—253.)



1. In combination with a windshield motor having spaced mounting parts, a mounting member adapted to be secured to a windshield frame and being provided with spaced offsets matching said spaced mounting parts for attachment thereto, and means for connecting said offsets to said spaced mounting parts, said motor having a wiper operating shaft projecting into and terminating in the space between said offsets.

1,749,442. KNIFE SHARPENER. FRED PASS, Chicago, Ill., assignor of one-half to George D. Norton, Toledo, Ohio. Filed Nov. 22, 1926. Serial No. 149,912. 4 Claims. (Cl. 76—68.)

1. A sharpening device of the character described comprising a block of substantial thickness, a sharpening member mounted on the block, there being a narrow slot having parallel walls in the block extending to the sharpening member, the block being of such thickness that the



walls of the slot are relatively wide whereby the slot serves to guide and maintain an article to be sharpened at the proper angle against the sharpening member.

1,749,443. ELECTRODEPOSITION OF CHROMIUM. CHARLES HENRY PROCTOR, Arlington, N. J., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Mar. 9, 1929. Serial No. 345,888. 2 Claims. (Cl. 204—1.)

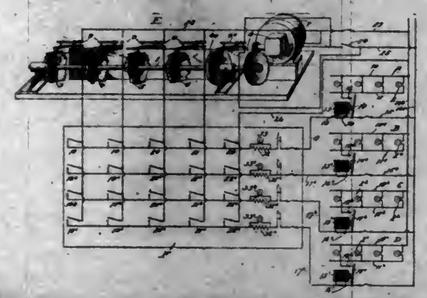
2. As a new composition, a chromic acid electroplating solution containing, for each gallon of water, the following ingredients in about the proportions given:

	Ounces
Chromic acid (CrO_3)	8 to 48
Chrome-iron ore (commercial)	¼ to 1½
Sulfuric acid	1/15 to ½

the chrome-iron ore having essentially the following analysis:

	By weight (per cent)
Chrome oxide (Cr_2O_3)	48–50
Iron oxide (Fe_2O_3)	20–25
Silicon oxide (SiO_2)	7– 7
Magnesium oxide (MgO)	12–14
Aluminum oxide (Al_2O_3)	7–10

1,749,444. SIGNAL SYSTEM. FRANK B. RAE, Berkeley, Calif. Filed July 20, 1926. Serial No. 123,611. 1 Claim. (Cl. 177—360.)



A signal system of the class described, comprising a central station, a plurality of signal stations, line wires extending from the central station to each of the signal stations, signal devices included in the line wires and means at the central station for transmitting the same or different code impulse combinations over said line wires simultaneously or independently to operate said devices, said means comprising a shaft and means for rotating it, a plurality of code wheels of different code characters on said shaft, a circuit breaker for each of said code wheels operated thereby, a plurality of groups of switches equal in number to the number of line circuits, each group having a number of corresponding switches equal in number to the number of circuit breakers, a

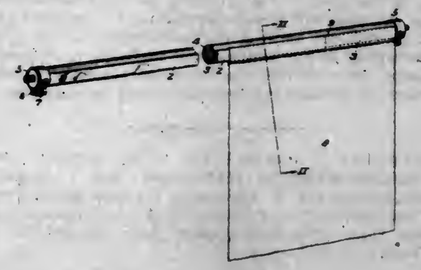
source of electric energy, connections from one side of the source and through the respective line wires to one terminal of each of the switches in the respective groups, connections from the second terminals of the corresponding switches in each group to one of the terminals of the corresponding circuit breakers and connections from the other terminals of the circuit breakers to the other terminal of said source.

1,749,445. TOILET COMPACT. FAY B. SALOMON, New York, N. Y. Filed Nov. 20, 1928. Serial No. 320,590. 3 Claims. (Cl. 132—82.)



3. As an article of manufacture, a toilet compact holder, comprising a body including a bottom and marginal side wall, said bottom being inwardly displaced at a central point to provide a truncated frusto-conical hollow support, partitions radiating from the support and merging into the side wall to provide independent compartments in the body, non-flexible cover sections for the compartments, and hinges concealed in the support and cover sections to swingingly connect the latter to the support, said side wall and cover sections being ornamented and flush at their meeting edges to effect a completed flower, said support having its smaller end closed and ornamented to effect the center of the flower representation.

1,749,446. SHADE HOLDER. JOSEPH SANTARCANGELO, Pittsburgh, Pa. Filed Jan. 23, 1928. Serial No. 248,648. 5 Claims. (Cl. 156—25.)



4. A holder of the character described, comprising a pair of relatively extensible members adapted to substantially conform to and lie closely adjacent a shade roller, a ring link clamp connected to one end of each of said members and extending transversely therefrom adapted to be detachably secured to a shade roller at any point intermediate the ends thereof, and means for maintaining the clamps in adjusted position.

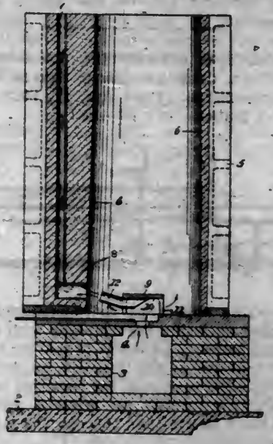
1,749,447. TOY TELEPHONE. BERTRAM F. SCHUCHMAN, Pittsburgh, Pa., assignor to Forster Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 26, 1928. Serial No. 264,779. 2 Claims. (Cl. 46—46.)

2. The combination with a toy telephone of a dialing mechanism including a shaft rotatably mounted in the base of said phone, said shaft having a rotating dial secured thereto above said base, a toothed wheel and a bell secured to said shaft beneath said base, a striker pivoted



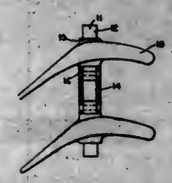
to said base adjacent said bell and an escapement mechanism operated by said toothed wheel for actuating said striker.

1,749,448. DRYING SAND MOLDS. RAY SCULTHORPE, Sharpsville, Pa., assignor to Shenango-Penn Mold Company, Sharpsville, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1928. Serial No. 320,196. 10 Claims. (Cl. 22—87.)



5. The combination of a source of gases for drying sand mold walls, means for conducting the gases into the presence of a mold wall having a pouring gate therein, and means for directing the gases toward the mold wall, such means having provision for directing at least a localized portion of the gases directly toward the gate.

1,749,449. TURBINE BLADING AND LASHING THEREFOR. HOWARD R. STEVENSON, Audubon, N. J., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 6, 1928. Serial No. 283,345. 7 Claims. (Cl. 253—77.)



1. In a turbine, a plurality of imperforate blades in a row, lashing means comprising a plurality of lashing elements interposed between adjacent blades, said lashing elements being located intermediate the inlet and outlet

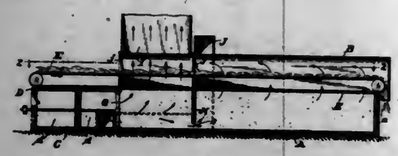
edges and spaced from the ends of the blades, the outer terminal portions of the lashing elements being integral with the adjacent blades, and means for securing the lashing elements together between the blades.

1,749,450. CURTAIN AND VALANCE OR LAMBREQUIN SUPPORT. GORDON R. STREICH, Buffalo, N. Y. Filed Aug. 27, 1928. Serial No. 302,337. 8 Claims. (Cl. 156—13.)



5. A valance hanger comprising a thin flexible strip having a series of spaced apertures adjacent each of its longest edges, one of said edges being attached to the outside of a window frame through its adjacent apertures and the remaining edge receiving valance attaching means in its adjacent apertures to support a valance, said flexible strip being bent to conform to the top portion of the window frame.

1,749,451. DRYING APPARATUS. WILLIAM M. STRONG, Santa Barbara, Calif., assignor to General Drying Engineering Corporation. Filed Apr. 17, 1928. Serial No. 270,787. 7 Claims. (Cl. 34—12.)



1. In a drying apparatus, the combination of a conveyor, a casing enclosing the conveyor with an air chamber above and below, a source of heated air supply, a fan beneath the conveyor at the inlet end, an outlet for moist air above the initial section of the conveyor and means for passing heated air through the material beyond this initial section more slowly than through the material in the initial section.

1,749,452. EPHEDRINE-KETONE COMPOUND AND SOLUTION AND PROCESS OF PREPARING SUCH COMPOUND. ELMER H. STUART, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 20, 1928, Serial No. 300,946. Renewed Jan. 8, 1930. 9 Claims. (Cl. 167—58.)

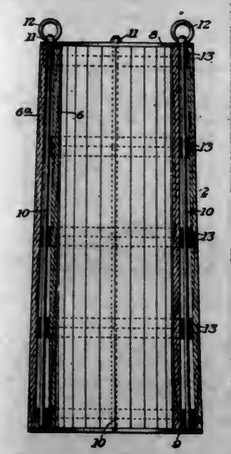
1. A compound obtainable by reacting an ephedrine with a ketone.

1,749,453. MOTOR-VEHICLE FENDER. HORACE T. THOMAS, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed May 19, 1924. Serial No. 714,508. 5 Claims. (Cl. 280—152.)



3. In a motor vehicle, a fender including in combination a frame formed of spaced side bars substantially rigid in the direction of their length but yieldably movable toward and away from each other to absorb blows imparted to the side of the vehicle, and a covering for said frame.

1,749,454. MOLD PATTERN. FRANK W. TICKNER, Sharon, and JAMES THOMAS, Sharpsville, Pa., assignors to Shenango-Penn Mold Company, Sharpsville, Pa., a Corporation of Pennsylvania. Filed Feb. 4, 1929. Serial No. 337,248. 11 Claims. (Cl. 22—158.)

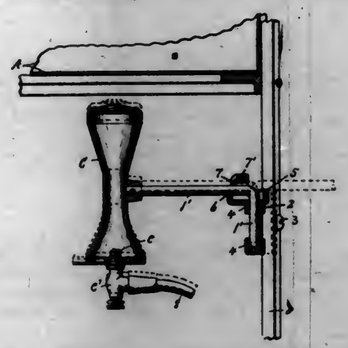


7. A pattern for molding sand for casting, comprising a hollow wooden pattern member having molding surfaces on both the inside and outside thereof, and metallic strengthening means connected with the pattern member and providing means for taking a lifting stress to lift the pattern.

1,749,455. PROCESS OF DEHYDRATING MATERIALS. JUSTIN F. WAIT, New York, N. Y., assignor to National Aniline & Chemical Co., Inc., a Corporation of New York. Filed Dec. 31, 1924. Serial No. 759,047. 9 Claims. (Cl. 23—184.)

7. In the process of dehydrating molten alkaline materials, the steps which comprise passing said material containing moisture between electrodes while causing sufficient current to flow between said electrodes to evaporate moisture and removing the vapors by passing a current of inert gas through said material during the evaporation.

1,749,456. GAS-BURNER ATTACHMENT FOR CLOTHES-WASHING MACHINES. GUY C. WILKINSON, Syracuse, N. Y., assignor to Syracuse Washing Machine Corporation, Syracuse, N. Y., a Corporation of New York. Filed Feb. 5, 1924. Serial No. 690,727. 1 Claim. (Cl. 248—20.)

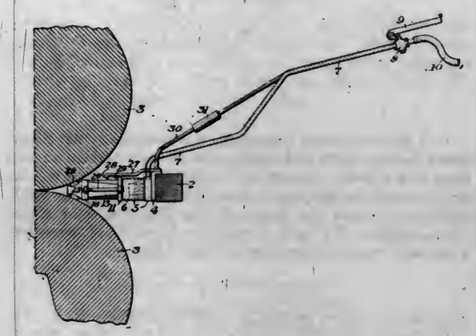


A gas burner attachment for clothes washing machines and the like comprising a bracket having an offset support

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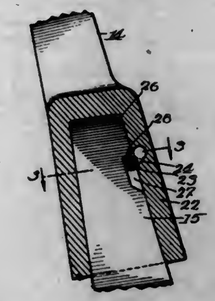
and an upright journal bearing in the support, a laterally extending support adjacent the upper end of the bearing, and a lug overhanging a portion of the last named support and being offset from the bearing, said bearing being adapted to receive an offset extension of a burner supporting arm, the distance between the free end of the lug and upper surface of the laterally extending support being sufficient to permit the passage therebetween of the offset extension of the burner supporting arm.

1,749,457. MEANS FOR GRINDING OR POLISHING ROLLS. JOHN D. WILLIAMS, Niles, Ohio. Filed Aug. 15, 1924. Serial No. 732,197. 3 Claims. (Cl. 51—255.)



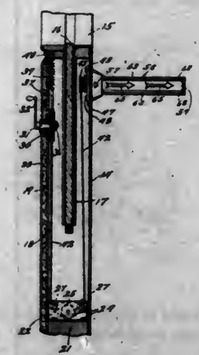
1. A grinding and polishing means including a fixed supporting bar, a carrier slidably mounted on the bar, a cylinder on the carrier, a piston in the cylinder, and an abrading element supported on the piston, substantially as described.

1,749,458. GRATE SHAKER. HOWARD C. WOODBRIDGE, Rochester, N. Y., assignor, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y., a Corporation of Delaware. Filed June 1, 1926. Serial No. 112,768. 1 Claim. (Cl. 287—119.)



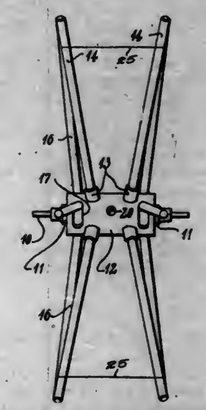
In a grate shaking mechanism, in combination, a swinging lever having an instanding backwardly facing substantially abrupt shoulder adjacent its outer end, an extension bar having an end socket for receiving the outer end of the lever and an oblique transverse slot opening through opposite walls of the socket and extending into a connecting wall to form a recess therein, the inner end of the slot being inclined toward the open end of the socket, and a pin laterally slidable in the slot into a position within said recess within said connecting wall or into a position engageable with said shoulder for preventing the removal of said lever when the parts are assembled.

1,749,459. DIRECTION INDICATOR FOR AUTOMOBILES. ANDREW ZAPART, Brooklyn, N. Y. Filed Sept. 15, 1928. Serial No. 306,103. 11 Claims. (Cl. 116—48.)



1. In a direction indicator, a housing adapted to be arranged on the side of the car, a casing bearing pointers arranged to lie within said housing alongside of the car, means connecting said casing with the housing to permit movement both axially and pivotally of the casing with respect to the housing to project the same therefrom, and means for bodily moving said casing.

1,749,460. SWIFT. EUGENE R. ALDERMAN, South Hadley, Mass. Filed Sept. 7, 1928. Serial No. 304,540. 3 Claims. (Cl. 242—110.)

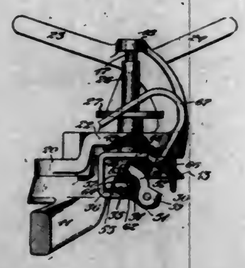


1. A swift comprising a hub structure, a sleeve surrounding the hub structure and rotatable thereon and formed with circumferentially spaced pairs of slots, pairs of arms spaced circumferentially about the sleeve and secured thereto, pairs of arms secured to the hub structure and extending through the slots in the sleeve, and a spring connection between the hub structure and the sleeve tending to hold the hub-secured arms at one end of the slots and spaced evenly between the sleeve-secured arms while permitting the hub structure to be rotated relative to the sleeve to bring the hub-secured arms adjacent the sleeve-secured arms.

1,749,461. SLUG CATCHER OR YARN CLEANER. GUSTAF S. BECKMAN, Cranston, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed June 8, 1926. Serial No. 114,562. 9 Claims. (Cl. 28—70.)

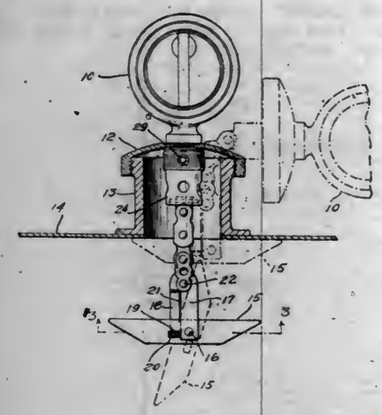
1. A slug-catcher or yarn-cleaner for operating on a longitudinally and laterally moving strand comprising an ele-

ment having a slit through which the strand draws and adapted to be oscillated transversely of the path of travel of the strand under the lateral movement of the latter



whereby the strand is caused to slide longitudinally of the slit to prevent the accumulation of lint and foreign matter therein.

1,749,462. RETAINING DEVICE FOR CAPS. CORD H. BEHNKE, Flushing, N. Y., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Mar. 25, 1927. Serial No. 178,177. 6 Claims. (Cl. 220—24.)

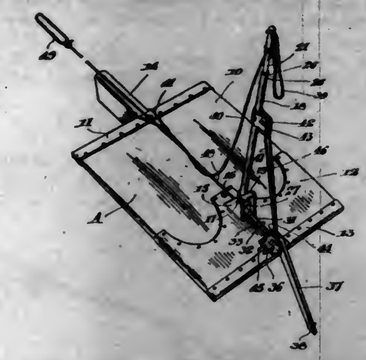


1. A retaining device for a radiator cap, including a link flexibly but permanently connected with said cap, an anchor member pivoted substantially centrally on said link, and spring means integral with said link to lock said member substantially perpendicular to said link upon movement to such position but maintained retracted, and ineffective when said member and said link are out of such perpendicular relation.

1,749,463. PROCESS FOR OBTAINING SULPHONATION PRODUCTS FROM POLYMERIZED FATS OR OILS OR THE ACIDS THEREOF. HEINRICH BERTSCH, Chemnitz, Germany, assignor to H. Th. Böhme A. G., Chemnitz, Germany, a Corporation of Germany. Filed Sept. 12, 1927, Serial No. 219,169, and in Germany July 8, 1926. 7 Claims. (Cl. 87—6.)

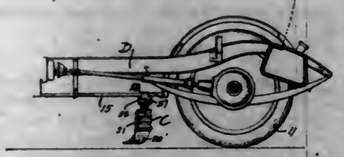
1. The sulphonation of polymerized fatty material, including polymerized fats, oils, and fatty acids, consisting in treating said material with the sulphonating reagent and simultaneously with an anhydrous organic acid radical compound.

1,749,464. FLOATING SINKER. JOHN WILLIAM BOND, Victoria, British Columbia, Canada. Filed Apr. 26, 1929. Serial No. 358,396. 13 Claims. (Cl. 43—52.)



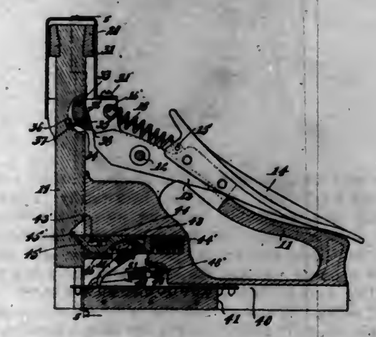
1. A floating sinker comprising a substantially flat plane-faced floating body, trip mechanism directly carried on said body and a feeler carried by the body connected with the trip mechanism and means associated with said trip mechanism and feeler for automatically directing said sinker to the surface of a body of water in which it is immersed, when said feeler encounters an obstruction.

1,749,465. SNOW-SHOVEL ATTACHMENT FOR VEHICLES. LANODON CASKIN, Devon, Pa. Filed Aug. 9, 1928. Serial No. 298,525. 4 Claims. (Cl. 37—42.)



1. In a snow plow construction a carrier of corrugated channel cross section, a blade including a scooping portion and a corrugated attaching portion adapted to interfit to various depths in the corrugated channel of the carrier.

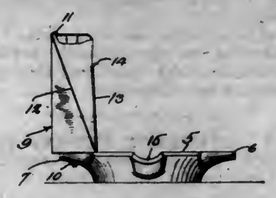
1,749,466. STAPLING MACHINE. JOHN B. CROFOOT, Arlington Heights, Ill. Filed May 4, 1928. Serial No. 274,988. 9 Claims. (Cl. 1—48.)



8. A stapling machine comprising a frame having a magazine for the reception of a strip of staples, a casing

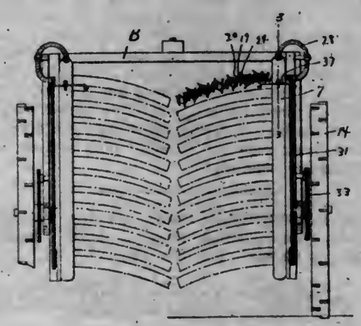
integral with said frame, said casing having a central bore and a pair of pockets one on each side of said bore, a pair of springs secured in said pockets, a plunger connected to said springs and slidable in said bore, said plunger having a notch, a spring pressed bolt receivable in said notch and having a guide slot receiving a pin secured to the frame, said plunger and said notch cooperating to cause reciprocation of said bolt, a feed pawl pivoted to said bolt, said feed pawl having a pair of arms, one of said arms being for the normal progressive feeding of said strip of staples into the bore, the other of said arms serving as a means to feed and eject the last of said strip of staples into the bore, a spring actuated retention pawl serving to prevent retraction of the strip of staples, and a cap inclosing the bore, part of said barrel and said plunger.

1,749,467. COMBINED ASH TRAY AND CIGARETTE-PACKAGE CONTAINER. JOSEPH A. DANN, Miami, Fla., assignor to Sarah Dann, a Free Dealer under the laws of Florida. Filed May 23, 1928. Serial No. 279,976. 1 Claim. (Cl. 131—59.)



A cigarette package holder including a base, a holder section including a rear wall and a front wall, the rear wall having its upper edge turned forwardly and downwardly to engage a package of cigarettes positioned in the holder section, to secure the package of cigarettes within the holder section, and the upper edge of the front wall being curved outwardly.

1,749,468. COTTON HARVESTER AND PICKER. JOSEPH DARBONNE, Jr., Elton, La. Filed Mar. 1, 1928. Serial No. 258,328. 8 Claims. (Cl. 56—40.)



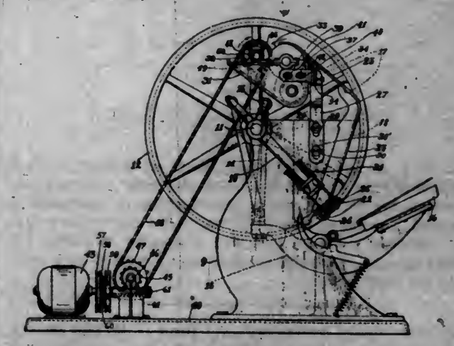
1. In a cotton picking apparatus of the class described, a picker mechanism comprising a stationary coil, a rotatable coil in the stationary coil, said stationary coil having coil springs wrapped about the coils thereof, star wheels rotatable on the strand of the outer coil, and held in place by the coil springs, said star wheels having their teeth extending between the coils of the rotating coil to be actuated thereby.

1,749,469. LIQUID-DISPENSING APPARATUS. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Sept. 7, 1927. Serial No. 218,087. 9 Claims. (Cl. 221—100.)



1. A liquid dispensing apparatus, comprising, two measuring chambers, a conduit through which liquid may be supplied thereto, a conduit through which liquid may be discharged therefrom, valve means for alternately connecting said chambers to the supply and discharge conduits arranged so that while one chamber is connected to the supply conduit the other is connected to the discharge conduit, means for supplying liquid under pressure through the supply conduit, means adapted to be first stressed and then released to quickly shift the valve means and reverse the connections of said chambers to said conduits, an overflow conduit for each chamber communicating therewith near the upper end thereof, a cylinder connected near one end to each overflow conduit, a piston in each cylinder adapted to be moved by fluid under pressure from said overflow conduit, means alternately operated by said pistons for stressing and then releasing said valve shifting means, and means for discharging fluid from each cylinder through its piston after the latter has been moved by the fluid to effect the shifting of said valve means.

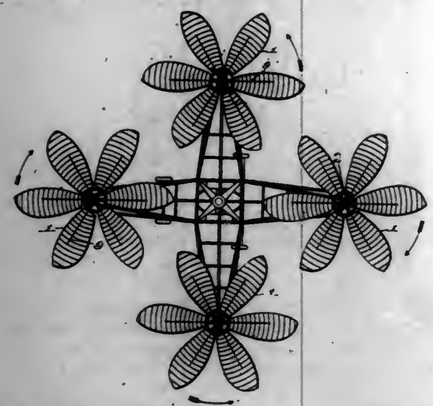
1,749,470. PRINTING PRESS. CLYDE DEAN, Chicago, Ill. Filed Aug. 1, 1928. Serial No. 296,656. 9 Claims. (Cl. 101—340.)



1. In combination with a printing press, an independent fountain connected to said printing press, and horizontally and vertically adjustable relatively thereto, a plu-

rality of rollers in said fountain, one of said rollers being engaged by the ink transmitting rollers of said printing press, one of the other of said rollers being mounted for horizontal and vertical adjustment relatively to said last mentioned rollers.

1,749,471. HELICOPTER. GEORGE DE BOTHEZAT, New York, N. Y. Filed Mar. 29, 1924. Serial No. 702,871. 24 Claims. (Cl. 244—19.)



1. In a helicopter flying machine, a plurality of pairs of lifting propellers mounted on the frame of said machine, and symmetrically disposed about the central vertical axis thereof, and means for unbalancing the torque of said propellers while maintaining the total thrust constant for the purpose described.

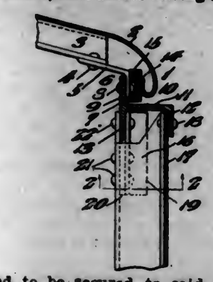
1,749,472. EGG GATHERER. ARTHUR DE PAEMELAERE, Gardena, Calif. Filed May 24, 1929. Serial No. 365,772. 2 Claims. (Cl. 294—103.)



1. In a device of the class described, a staff, a fixed jaw comprising cooperating loops the outer side portions of which are formed into a shank which is connected to the staff, the inner side portions of the loops being free and resilient, a second jaw, and means for mounting the second jaw on the staff for movement toward and away from the first jaw.

1,749,473. ROOF STRUCTURE. JOHN C. M. DES ISLETS, Bethlehem, Pa. Filed Oct. 28, 1927. Serial No. 229,296. 8 Claims. (Cl. 105—407.)

1. In a device of the character stated, a side plate composed of a laterally extending web, inner upper extending and lower pendant flanges and an outer pendant flange all of integral structure, roof sheets having a terminal pendant

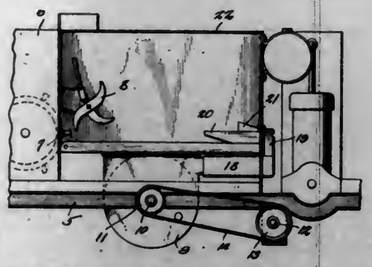


portion adapted to be secured to said upper flange, and side posts having their upper portions secured to said inner and outer pendant flanges of said side plate.

1,749,474. BALLOON ENVELOPE. JUNIUS D. EDWARDS, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 6, 1927. Serial No. 217,875. 3 Claims. (Cl. 244—3.)

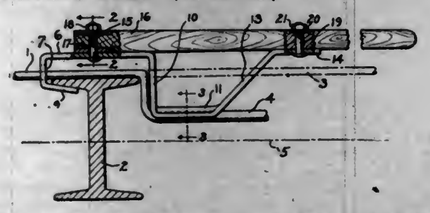
1. A gas-retaining balloon-envelope made of fabric bearing a gas-retaining coating composed of rubber having flake-like metallic particles distributed throughout a substantial portion of its thickness.

1,749,475. PNEUMATIC FEEDING DEVICE FOR THRASHERS. MARTIN EISELE, Graymont, Ill. Filed Nov. 12, 1928. Serial No. 318,836. 2 Claims. (Cl. 130—1.)



1. A thrashing machine including a receiver compartment, a blower casing mounted under the receiver compartment, a main pipe extending along the bottom of the receiver compartment and extending upwardly at one end of the receiver compartment and communicating with the interior of the receiver compartment, a deflector pipe communicating with the first mentioned pipe and extending an appreciable distance within the receiver compartment, and a blower in the blower casing for directing a blast of air through the main pipe and deflector pipe to blow bundles of grain into the machine.

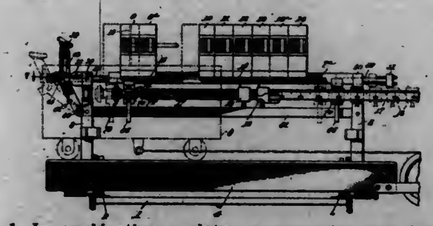
1,749,476. ROD-BENDING TOOL. CHARLES G. FILLMORE, Waltham, Mass. Filed Mar. 7, 1928. Serial No. 259,781. 8 Claims. (Cl. 81—15.)



7. In a device of the character described, a rigid member providing a fulcrum and a bend forming projection

comprising a base member having a depending hook portion adjacent one end, a bend forming projection intermediate the hook portion and the opposite end, said bend forming projection having a pair of supporting members depending from the base and carrying a bend contacting portion, and a handle secured to the base portion.

1,749,477. DEBIT AND CREDIT POSTING MACHINE. HARRY A. FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Original application filed Dec. 31, 1920, Serial No. 434,250, Patent No. 1,505,385. Divided and this application filed May 3, 1924. Serial No. 710,801. 10 Claims. (Cl. 235—59.)



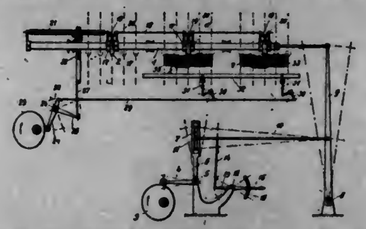
1. In combination a platen, a computing unit including a debit register and a credit register, and means for shifting said unit in opposite directions to present either register in position to be operated as debits or credits are recorded in the column and to displace the other register from such operative position.

1,749,478. SWITCH THROW OR KEEPER. ALBERT GALEY, Seelyville, Ind. Filed May 14, 1928. Serial No. 277,499. 6 Claims. (Cl. 246—318.)



1. In a keeper for switch points of switch structures including a longitudinally movable bridle, the combination of a housing including a pair of parallel spaced apart side plates, throw and rocker cranks pivotally mounted in the side plates, a throw arm pivotally mounted at one end upon the rocker crank and slidably engageable with the throw crank, an expansion spring encircling the throw arm and acting upon the crank for normally urging the crank into opposite angular positions, and a link pivotally connected with the throw crank for attachment to one end of said bridle whereby the bridle is yieldably retained in either of its longitudinally movable positions.

1,749,479. FLAT KNITTING FRAME. RUDOLPH GRAEBER, Chemnitz, Germany, assignor to Schubert & Salzer Maschinenfabrik Aktiengesellschaft, Chemnitz, Germany. Filed Sept. 24, 1926, Serial No. 137,585, and in Germany Sept. 1, 1925. 2 Claims. (Cl. 66—110.)



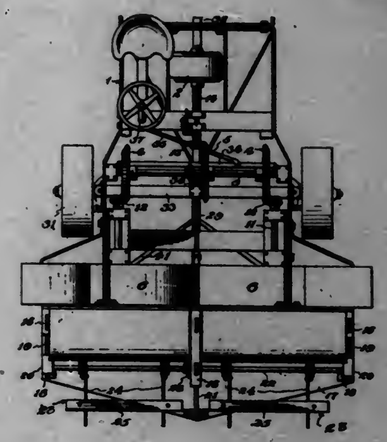
1. In a flat knitting machine having a plurality of sinker beds and slurcocks for operating at the respective sinker beds, the combination with means to drive the said slurcocks, of means for adjusting the said driving means to vary the extent to which the slurcocks are driven and thereby the number of sinkers operated in any given bed.

1,749,480. HIGH-TENSION-CURRENT CONDUCTOR AND SPARK INTENSIFIER. JOHN S. M. HENDRESHOT, Boonton, N. J. Filed May 5, 1926. Serial No. 106,939. 2 Claims. (Cl. 175—183.)



1. In a device of the class described, the combination of an elongated block of insulating material having recesses provided in opposite edges adjacent the one end of the block and forming a neck portion and a heel portion, and a conductor plate comprising a body portion having aligned slits in its side edges, forming intermediate and end clamping tongues at each side of the body portion, and a clamping tongue formed at the rear edge of the body portion, said intermediate and rear clamping tongues clamped respectively about the neck and heel portions of the block for securing the conductor plate to the block, and said end clamping tongues adapted to be clamped about the terminal of a conductor wire for electrically connecting the wire to the conductor plate.

1,749,481. SNOWPLOW. ARTHUR P. JENSEN, Marvin, S. Dak. Filed Oct. 13, 1927. Serial No. 225,948. 2 Claims. (Cl. 37—43.)



1. A device of the class described comprising a frame, a pair of casings mounted upon the frame and having openings in their front sides, a plow blade adjustably mounted in advance of the casings, brackets carried by the casings and plow blade, vertically disposed cutting blades having their lower ends pivotally connected to the brackets of the plow blade and their upper ends slidable in the brackets carried by the casings, a shaft journaled intermediate the ends of the blades, paddle wheels fixed to the shaft in

line with said openings, fans mounted in the casing, and means for simultaneously rotating the fans and paddle wheels.

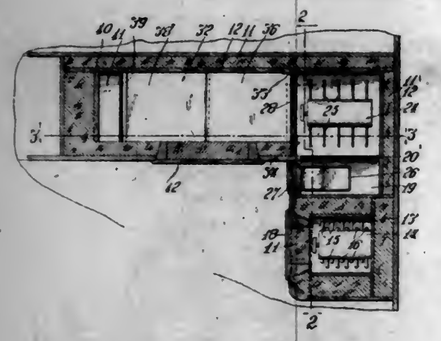
1,749,482. METHOD OF PRODUCING ALKYL ESTERS OF ABIETIC ACID. ALAN C. JOHNSTON, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 18, 1927. Serial No. 227,042. 25 Claims. (Cl. 260—98.)

1. The method of producing an alkyl ester of a resin acid, which includes the step of treating a resin acid with an alkyl halide in the presence of an alkali and distilling off the ester formed under reduced pressure.

1,749,483. METHOD OF PRODUCING ALKYL ESTERS OF ABIETIC ACID. ALAN C. JOHNSTON, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Original application filed Oct. 18, 1927, Serial No. 227,042. Divided and this application filed June 12, 1928. Serial No. 284,877. 22 Claims. (Cl. 260—98.)

1. The method of producing the amyl ester of a resin acid, which includes the step of treating a resin acid with an amyl halide in the presence of an alkali.

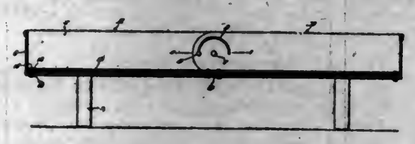
1,749,484. COMBINED REFRIGERATOR AND ICE-CREAM CABINET. CHARLES G. JUNEAU, deceased, Wauwatosa, Wis., by Anna K. Juneau, Wauwatosa, Wis., administratrix, and Walter C. Marshall, Milwaukee, Wis. Filed May 25, 1928. Serial No. 280,538. 3 Claims. (Cl. 62—89.)



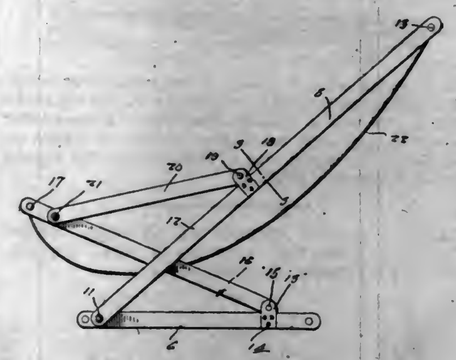
1. A combined refrigerator and ice cream cabinet provided with insulated top, bottom and side walls, an insulated chamber provided with a refrigerating unit provided with loop-coils arranged intermediate of the front and rear walls, ice cream holding containers arranged within the loops of said coils, a second refrigerating unit chamber spaced from the first mentioned chamber, a chilling compartment arranged intermediate of the two chambers, air passages between the bottom and top of said compartment and said second chamber, said compartment having outwardly moving doors, and ice-cube holding vessels carried by said doors.

1,749,485. DRIER. ROSE KASTEAD, Cressey, Mich. Filed Feb. 11, 1929. Serial No. 339,162. 4 Claims. (Cl. 34—17.)

1. In a drier of the class described, a pair of pivotally connected sections, each of said sections including a pair of spaced parallel side walls and an end wall connecting said side walls at one end, the free end walls of the respective sections being disposed in overlapping relation, pivot bolts extending through the overlapping ends of said walls, the free ends of the side walls of one of said sections being provided with an arcuate slot, and a pin extending through the slot and the adjacent end of the wall of the other of said sections.



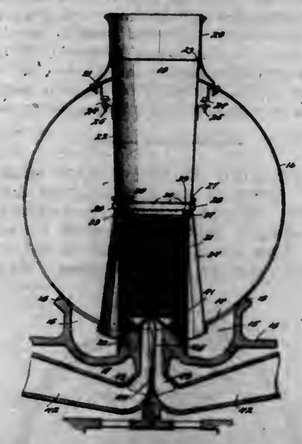
1,749,486. FOLDING CHAIR. WALTER H. KENDALL, New York, N. Y. Filed Oct. 29, 1928. Serial No. 315,823. 1 Claim. (Cl. 155—56.)



A folding chair of the character described comprising a pair of spaced parallel horizontally disposed base members, connecting rods secured at their opposite ends to the end portions of the base members, a tubular guard sleeve mounted on one of the connecting rods, pairs of vertically extending brackets mounted on opposite side faces of the base members adjacent the rear ends thereof, pivot pins extending through the upper portions of the pairs of brackets, forwardly and upwardly inclined supporting legs mounted on the pivot pins at their lower ends and provided, at their upper ends with a horizontal connecting bar, a pair of rearwardly extending upwardly inclined legs of greater length than the first named legs, pivotally connected to the outer side faces of the base members adjacent the forward ends thereof, and intersecting the first named legs, the upper portions of the last named legs constituting a back support, pairs of laterally extending spaced brackets mounted on the last named legs in spaced relation to the base members, pivot pins extending through the pairs of brackets, arms pivotally mounted on the pivot pin at one end and pivotally connected to the first named legs on the outer faces thereof and adjacent the forward end of said legs, a horizontal connecting bar secured to the upper end of the rearwardly extending legs, and a flexible seat and back element connected at its upper end to the connecting bars on the upper ends of the forwardly and rearwardly extending pairs of legs.

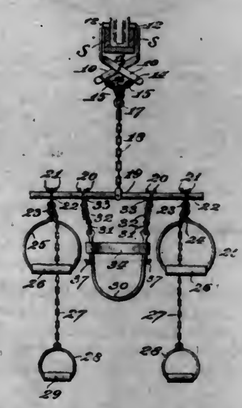
1,749,487. SMOKE BOX AND STACK. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed July 8, 1927. Serial No. 204,303. 21 Claims. (Cl. 105—44.)

12. In a locomotive, in combination, a smoke-box, a cylinder saddle closing the lower portion of said smoke-box, a cavity in said saddle, a projection in said cavity, an exhaust nozzle secured directly to said projection in said cavity and an exhaust passage in said saddle gradually



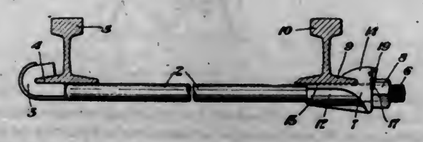
merging in said projection to the cross sectional configuration of said nozzle outlet, said passage replacing the usual exhaust pot.

1,749,488. EXERCISING APPARATUS. FRANCIS KING, Los Angeles, Calif. Filed Aug. 22, 1927. Serial No. 214,510. 8 Claims. (Cl. 272—80.)



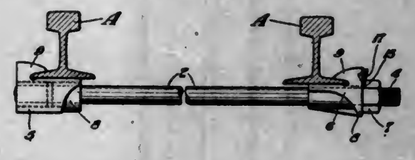
1. In an exercising apparatus, a pair of pivotally connected crossed bars having their upper ends terminating in hooks, a flexible member depending from said crossed bars, a bar carried by the lower end of said flexible member, and rings detachably connected to and suspended from said bar.

1,749,489. GAUGE ROD. MICHAEL J. KIST, Johnstown, Pa. Filed Apr. 18, 1929. Serial No. 356,169. 3 Claims. (Cl. 238—53.)



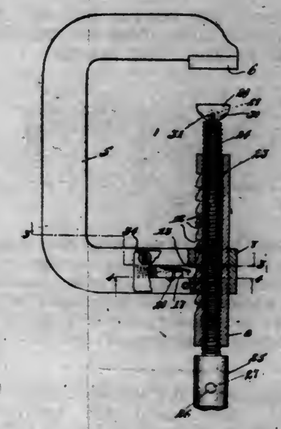
1. In a gauge rod device, the combination of a rod member having a fixed jaw at one end and having its other end threaded, a movable jaw mounted on said rod and in opposite relation with respect to the fixed jaw, said jaw having a substantially vertical outer end face, a nut threaded on said rod and adapted to contact with said outer end face of said movable jaw to move said jaw toward said fixed jaw to engage the flange of a track rail, said outer end face of said movable jaw and the inner face of said nut being provided with recesses adapted to be brought into alinement by the rotation of said nut, and a locking pin adapted to be mounted in said alined recesses to lock said nut against rotation.

1,749,490. GAUGE ROD. MICHAEL J. KIST, Johnstown, Pa. Filed May 7, 1929. Serial No. 361,058. 4 Claims. (Cl. 238—53.)



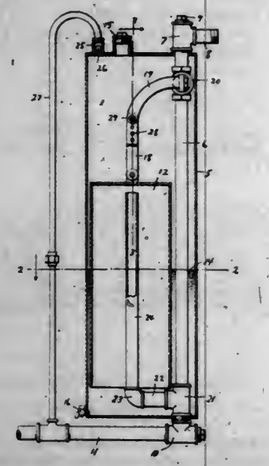
1. A gauge rod comprising a one-piece rod member having one end upset to form a head portion and the other end of said rod being threaded to receive a nut, a pair of jaws having bored base portions to receive said rod, said jaws being removably mounted on said rod, one of said jaws having its bore enlarged at its outer end to receive said upset head of said rod, and a nut threaded on the threaded end of said rod to contact with the outer end face of said other jaw to move said jaw toward the headed end of said rod to engage the flange of a track rail and secure said rod in place.

1,749,491. CLAMP. STEPHEN KOKAY, Chicago, Ill. Filed Mar. 26, 1927. Serial No. 178,541. 1 Claim. (Cl. 144—305.)



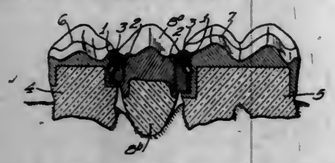
A clamp comprising a U-shaped clamping jaw having a clamping plate at one end thereof; a cylindrical opening through one end thereof having a clamping bolt therethrough; a hollow cylindrical member surrounding said bolt and passing through said cylindrical opening; said member having screw thread engagement with said bolt; notches in said cylindrical member; a pawl slidable in a direction at right angles to said cylindrical member and adapted to be yieldingly held in said notches; a manually operated push rod having a cam face engaging another cam face on said pawl for releasing said pawl from engagement with said cylindrical member; and a set screw engaging a slot in said cylindrical member for preventing rotary motion thereof.

1,749,492. AUTOMATIC FUEL CONTROL FOR NATURAL-GAS ENGINES. WILLIAM CHARLES LAMBING, McDonald, Pa., assignor of one-third to T. J. Britton, Cecil, Pa. Filed Nov. 6, 1928. Serial No. 317,643. 5 Claims. (Cl. 50—33.)



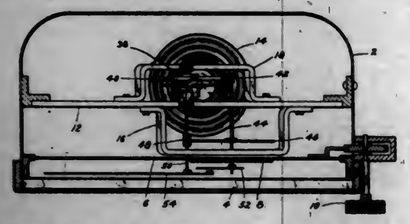
1. A fuel feed regulator of the class described comprising in combination, a closed container having a feed pipe extending vertically therethrough, a valve interposed in said feed pipe and positioned within the container, a float operable within the container and open at its lower end, a pipe extension communicating with said feed pipe and terminating within the float whereby to admit fuel into the float, in excess of the consumption thereof and means operatively connecting the float with said valve.

1,749,493. SEMIFIXED DENTAL BRIDGE. MERVYN C. LASKY, Hollywood, Calif. Filed Mar. 21, 1928. Serial No. 263,234. 10 Claims. (Cl. 32—12.)



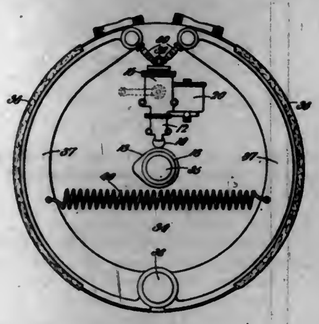
1. In a dental bridge, a socket member securable to a tooth, a male member securable to another tooth adapted to fit into said socket member, one of said members having a recess, and a screw mounted in the other member at an angle from the end thereof adapted to extend into said recess and retain said members relative to each other.

1,749,494. SENSITIVE ALTIMETER. GEORGE P. LUCKEY, Dayton, Ohio. Filed June 27, 1923. Serial No. 648,057. 3 Claims. (Cl. 73—4.)



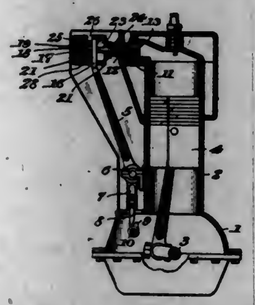
1. In an instrument having sealed atmospheric pressure responsive means, a plurality of dials, an indicator for each of said dials, one of said dials and indicators being geared to the other so as to move only a fraction of a revolution for each complete revolution of the other, link mechanism connecting said pressure responsive means to said indicators for transforming unequal movements of said means into uniform rotary movement of said indicators, and a device included in said mechanism for changing the ratio of the movement of the said indicators in respect to the movement of said pressure responsive means.

1,749,495. BRAKING OF THE UNDERCARRIAGE OR LANDING WHEELS OF AEROPLANES AND LIKE AIRCRAFT. MARTIN CLISSOLD MACPHERSON, Hayes, England, assignor to Charles Richard Fairey, Hayes, England. Filed Apr. 5, 1928, Serial No. 267,771, and in Great Britain Apr. 27, 1927. 6 Claims. (Cl. 244—2.)



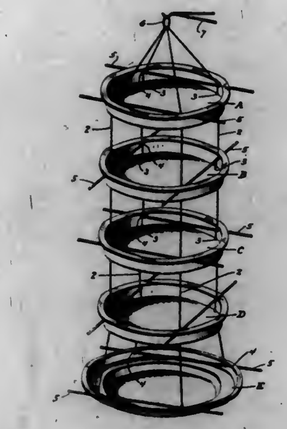
6. A braking system for the undercarriage or landing wheels of an aeroplane or like aircraft, comprising fluid-pressure brakes, actuating and controlling means therefor, said actuating and controlling means being so arranged that said fluid-pressure brakes are adapted to function so long only as the pressure of the rear portion of the machine bears upon the landing surface, and pumping means operated by rotation of the landing wheels and by a member at the tail of the machine for creating the fluid pressure for actuating the brakes.

1,749,496. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. MARION GASKELL MASTERS, Evansville, Ind., assignor of one-half to Bernard Henry Mason, Vanderburg County, Ind. Filed Apr. 28, 1927. Serial No. 187,263. 2 Claims. (Cl. 123—90.)



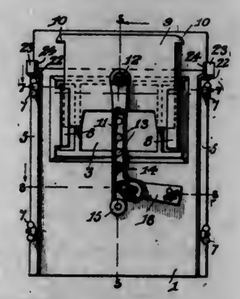
1. In a valve mechanism for internal combustion engines, the combination with a valve for a cylinder of said engine, of a valve operator, a valve tappet having a screw threaded connection to the valve operator and adapted for operating the valve, a nut for securing said tappet in its adjusted position, a housing carried by the stem of the valve, and a coil spring contained within the housing and bearing on it and on the valve operator, said spring serving as a cushion for the valve operator, said housing being provided with openings for the introduction of means to adjust the tappet and its securing device and to permit the play of the valve operator.

1,749,497. BIRD LURE. CHARLES F. MCGLASHAN, Truckee, Calif. Filed Mar. 12, 1929. Serial No. 346,434. 3 Claims. (Cl. 119—61.)



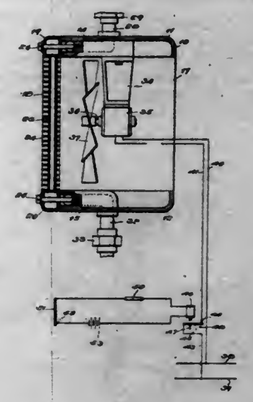
1. A bird lure comprising a plurality of superposed interspaced pans for the reception of bird feed, and perch rods supported by each pan, extending crosswise thereof and projecting outwardly therefrom.

1,749,498. DAMPER. WILLOUGHBY S. MILLER, Reading, Pa. Filed June 10, 1929. Serial No. 369,793. 1 Claim. (Cl. 126—293.)



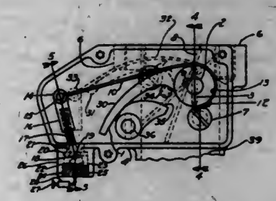
In a device of the class described, a tubular member comprising sections, each section having an opening, doors slidable longitudinally of the sections and controlling the openings, extension plates overlapping on the longitudinal edges of the sections, means for connecting the extension plates adjustably to the sections, a pipe-receiving shoulder on the sections, and the upper ends of the extension plates being outwardly offset to form wings extended upwardly higher than the shoulder, the inner surfaces of the wings lying inwardly of a circle coinciding with the inner surfaces of the doors, thereby to prevent a pipe from interfering with the raising of the doors, should the pipe be dislodged from the shoulder.

1,749,499. AIR-HEATING APPARATUS. ARTHUR B. MODINE, Racine, Wis. Filed May 28, 1926. Serial No. 112,373. 2 Claims. (Cl. 257—2.)



2. Heating apparatus comprising a radiator core, means for supporting said radiator core to permit angular adjustment thereof around an axis of rotation, electrically driven means constrained to move bodily with the radiator core for advancing a column of air therethrough, an electric circuit connected to said air advancing means, a relay in said circuit, and a thermostat in said circuit for controlling said relay.

1,749,500. GOVERNOR FOR INTERNAL-COMBUSTION ENGINES. GLENN L. MOYERS, St. Clair Shores, and EARL A. ABRAHAM, Detroit, Mich., assignors to Monarch Governor Co., Detroit, Mich. Filed Feb. 20, 1928. Serial No. 255,736. 20 Claims. (Cl. 137—152.)

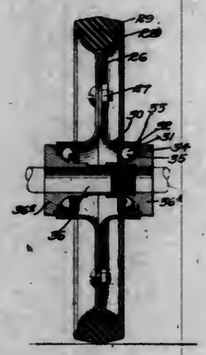


1. In a governing device for a hydrocarbon engine, the combination of a housing having an intake conduit, a governing member located in the intake conduit of the said housing, the said governing member being capable of being moved to a closed position by the reactions imposed thereupon by the operation of the motor, a cam connected to the said governing member and adapted to move therewith, a movable member mounted on the said housing, and a resilient member contacting with the said cam, the said resilient member being connected to the said cam and the said movable member, the said resilient member increasing its length of contact with the said cam during the movement of the said governing member to a closed position and thereby exerting an increasing tension to maintain, in accordance with a predetermined curve, the said governing member in a state of equilibrium at a predetermined speed, relative to the reactions imposed thereupon by the operation of the engine.

1,749,501. VAT DYESTUFFS. HEINRICH NEBSHEIMER and WILHELM SCHNEIDER, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 9, 1927, Serial No. 232,188, and in Germany Nov. 15, 1926. 6 Claims. (Cl. 260—60.)

1. The process for the production of orange-colored vat dyestuffs of the anthraquinone series, which consists in acting on a 1-acylamino-4-hydroxy-anthraquinone with an agent capable of supplying a radicle of a polyvalent alcohol.

1,749,502. WHEEL STRUCTURE. HANS P. NIELSEN, Alameda, Calif., assignor to Eames Company, San Francisco, Calif., a Corporation of California. Filed Mar. 28, 1927. Serial No. 177,590. 1 Claim. (Cl. 308—190.)



A wheel of the character described including a pair of complementary disks secured together, each disk having an outwardly drawn hub end cooperating to form a hub for the wheel, a cup-shaped outer cone of a diameter agreeing with the interior diameter of the hub, one of said cup-shaped outer cones being tightly pressed within each end of the hub, a circumscribing flange at the outer end of each cup-shaped outer cone, said flange being of a diameter agreeing with the exterior diameter of the hub against the end of which it is adapted to abut when the outer cones are pressed into place, a spindle adapted to extend transversely through the hub, said spindle formed in two parts arranged in longitudinal alignment, the inner end of the parts being of a diameter permitting them to be inserted into the hub hub through the outer cones, the inner ends of the parts of the spindle being formed with male and female threads whereby they may be threadedly connected, the outer end of each part of the spindle being enlarged and of a transverse dimension substantially the same as the diameter of the hub, an inner cone turned on each portion of the spindle to cooperate with the outer cones, and anti-friction bearing members interposed between the inner and outer cones, the adjustment of the bearings being made my adjusting the portions of the spindle toward and away from each other, said spindle having a central bore formed axially therethrough to receive an axle.

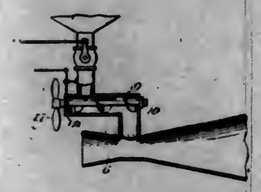
1,749,503. SANITARY GARBAGE AND REFUSE REMOVER. ELIAS PALE, San Pedro, Calif., assignor of one-half to Lloyd S. Nix, Los Angeles, Calif. Filed Mar. 29, 1926. Serial No. 98,288. 3 Claims. (Cl. 220—85.)

1. In combination with a container or receptacle, a scavenging device comprising a follower of substantially the shape and area of the inner cross-section of the container or receptacle, and a rod pivoted to the bottom of the receptacle or container and to the follower to fold down upon the bottom in one position to dispose the follower on



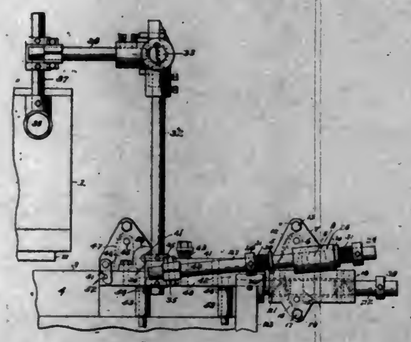
the bottom, and to swing out in another position to permit movement of the follower lengthwise of the container or receptacle.

1,749,504. AERIAL DISTRIBUTION OF MATERIALS. CLIFFORD L. PELTON, Norristown, Pa. Filed Dec. 15, 1924. Serial No. 755,969. 2 Claims. (Cl. 244—1.)



1. In a flying machine, a receptacle for pulverulent material, an air impelled mechanical means for distributing such material mounted below said receptacle and a connection between said receptacle and said distributing means.

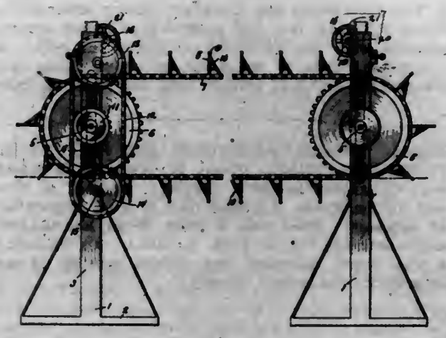
1,749,505. AUTOMATIC PUNCH-PRESS FEED. EDWARD M. PIERCE, Dayton, Ohio. Filed Mar. 5, 1925. Serial No. 13,136. 10 Claims. (Cl. 271—2.5.)



1. In a stock feeding device, a supporting structure mounted for reciprocatory movement, a gripping element carried by said structure and comprising a plurality of independently movable jaws pivotally adjacently mounted on a common axis, said jaws each having a rounded work contacting face adapted to grip stock of substantially

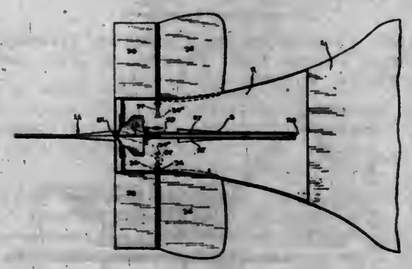
different thicknesses, means carried by said structure to urgingly support the stock in contact with said jaws, said jaws being so arranged that the movement of said structure in one direction will cause them to grip the stock and the movement of said structure in the opposite direction, will cause them to release the stock.

1,749,506. WATER MOTOR. THENO THEODORE RANDMETZ, New York, N. Y. Filed July 5, 1927. Serial No. 203,529. 2 Claims. (Cl. 170—90.)



1. A water motor comprising a pair of spaced uprights, spaced sprockets journaled in fixed bearings beside one upright, an endless sprocket chain passing over the sprockets and forming a substantially vertical lap between the sprockets, members vertically slidable upon the uprights, means to adjust the members slidably, a shaft journaled in one pair of said members, and movable therewith, a sprocket carried by the shaft in interengagement with the vertical lap of the sprocket chain at any position of adjustment, a second sprocket member on said shaft, a second pair of spaced uprights, a shaft journaled and vertically adjustable on said second pair of uprights, a third sprocket carried by said shaft, and an endless current engaging organization passing over and about the second and third mentoned sprockets.

1,749,507. AIRCRAFT EMPENNAGE. EDWARD LEONARD REYNOLDS, Tulsa, Okla. Filed Feb. 8, 1929. Serial No. 338,505. 15 Claims. (Cl. 244—29.)

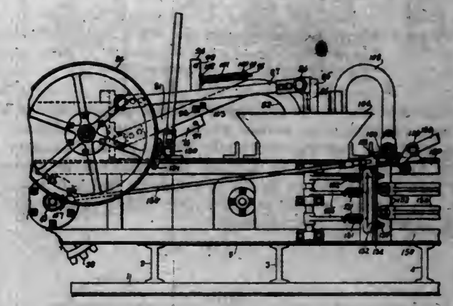


1. An empennage including a rudder consisting of upper and lower sections detachably connected together, a hull to which the rudder is connected, and means for detaching the upper section from the lower section, and for moving the upper section into the hull.

1,749,508. PROCESS OF MAKING POROUS PRODUCTS. JOHN A. RICE, Berkeley, Calif., assignor to The Bubblestone Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 29, 1924. Serial No. 716,825. 4 Claims. (Cl. 106—18.)

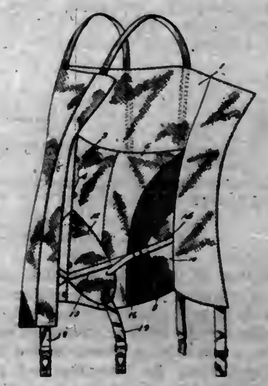
3. The process of making a porous article which comprises the steps of forcing a stiff jelly through a sieve, mixing said granular jelly into a mortar, and causing the latter to harden.

1,749,509. PRESS. BRUCE ROLLMAN, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Original application filed Nov. 16, 1925, Serial No. 69,392. Divided and this application filed May 3, 1926. Serial No. 106,338. 4 Claims. (Cl. 100—30.)



1. In a baler, in combination with division blocks and a plurality of retaining means adapted to permit of the passage of the division block in one direction and to prevent its return movement in the other direction, said retaining means consisting of a plurality of superimposed spaced dogs, the noses of which project into the baler, yielding means to maintain them in their inward position and a common supporting plate for pivotally supporting them and a common adjusting means.

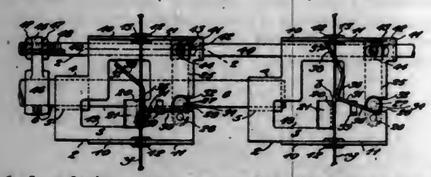
1,749,510. CORSET ACCESSORY. LAURA ROSS, Los Angeles, Calif. Filed Nov. 7, 1928. Serial No. 317,755. 1 Claim. (Cl. 2—27.)



The combination with a corset, of an abdominal support for association therewith, said abdominal support including front fabric gores detachably secured together at their inner adjacent edges, elastic gores attached along their inner side edges to the outer side edges of the front gores, and at their outer side edges to the adjacent portions of the corset, means for adjusting the abdominal support to maintain the same in proper position on the body of the

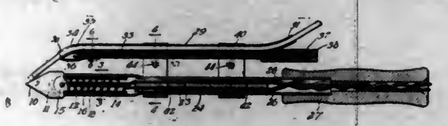
wearer, said means including side flaps secured only along their outer side edges to the outer side edge portions of the elastic gores, downwardly diverging front flaps secured only along their inner opposed edges to the respective front gores at their inner opposed edges, and adjustable bands connecting the respective pairs of flaps together.

1,749,511. SLUG OR BUNCH CATCHER. THOMAS J. SANDS, Auburn, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed July 8, 1925. Serial No. 42,289. 4 Claims. (Cl. 28—64.)



1. In a device of the type specified, the combination of a pivoted detector-lever across which the yarn is normally free to travel, and a slitted blade carried by said detector-lever and adapted to be thrown into position to cause the yarn to be seized in its slit to arrest its travel to break the strand when a slug or other obstruction on the yarn acts to move the detector-lever.

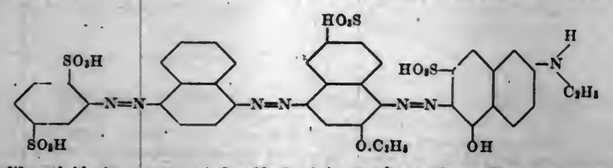
1,749,512. SOLDERING DEVICE. JOHN F. SCHYLANDER, Chicago, Ill. Filed Nov. 30, 1925. Serial No. 72,289. 8 Claims. (Cl. 113—109.)



1. The combination with means for guiding solder to the tip of a soldering iron, and a slidably journaled plunger engageable with the solder for advancing the solder in said guiding means, of means for quickly mounting said guiding means and said plunger upon the soldering iron.

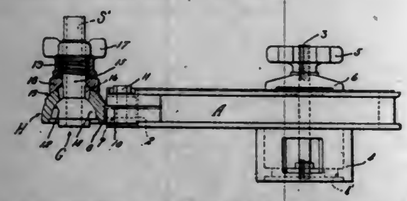
1,749,513. TRISAZO DYESTUFFS AND PROCESS OF PRODUCING THEM. HUGO SCHWEITZER, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 4, 1927, Serial No. 166,009, and in Germany Feb. 26, 1926. 5 Claims. (Cl. 260—72.)

5. The herein described new trisazo dyestuff having most probably the general formula:



which dyestuff is readily soluble in concentrated sulfuric-acid with a blue coloration, yielding upon careful reduction with stannous chloride and hydrochloric acid aniline-3.6-disulfonic-acid, 1-4-naphthylenediamine, 1-4-diamino-2-naphthol-ethyl-ether-6-sulfonic-acid, and 2-ethylamino-5-hydroxy-6-naphthylamine-7-sulfonic-acid; dyeing cotton clear greenish blue shades of good fastness properties.

1,749,514. VALVE-RESEATING APPARATUS. JAMES Y. SCOTT, Springfield, Mass., assignor to Van Norman Machine Tool Company, Springfield, Mass., a Corporation of Massachusetts. Filed Nov. 7, 1927. Serial No. 231,546. 17 Claims. (Cl. 90—12.5)



1. An apparatus of the class described comprising in combination, a support, a guide receiving member adjustably movable in said support, a tool spindle guide adjustably movable in said member having an opening therein for receiving a tool spindle, means carried by said guide operable axially thereof for clamping said guide in adjusted position to said member and a tool spindle.

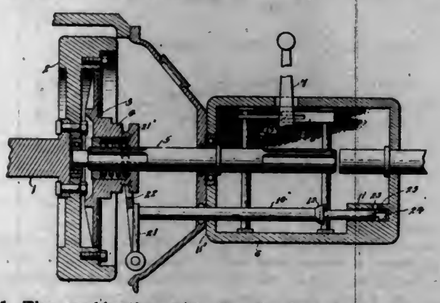
1,749,515. PULLEY BLOCK. HAROLD SLEEMAN, Iron River, Mich. Filed May 9, 1927. Serial No. 189,926. 2 Claims. (Cl. 254—193.)

1. A pulley block comprising a pulley, relatively rotatable sides substantially covering the sides of the pulley and which are provided on their inner walls with combined rope retainers and side spacers adapted, collectively, to overhang the pulley, said sides being widest at their tops and having the aforesaid retainers and spacers extending substantially across said sides at their widest tops to prevent the rope from "sawing" laterally across the



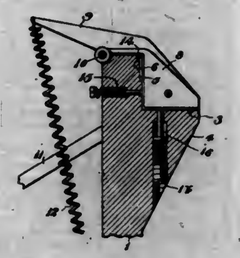
pulley, and hook means carried by the widest tops of the sides for anchoring the pulley block and for keeping the sides in alinement with the rope retainers and spacers facing each other for the purpose of collectively overhanging the pulley.

1,749,516. CLUTCH. MARION F. SMITH and ADELBERT E. WILKINS, Lansing, Mich. Filed May 2, 1929. Serial No. 359,924. 6 Claims. (Cl. 74—39.)



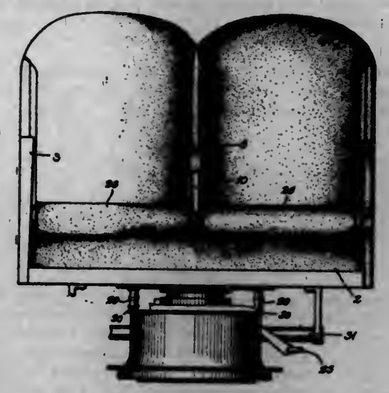
1. The combination with the clutch and transmission mechanism of a motor vehicle, of a shaft movable longitudinally for disengaging the clutch, rotatably mounted posts in the transmission case, bars fixed to the ends of the posts and arranged in pairs upon opposite sides of the shaft, said bars being pivotally and slidably connected at adjacent ends, said bars being operable by the gear shift lever for rotating the posts, and means carried by certain of the posts for shifting the shaft to disengage the clutch.

1,749,517. CLEAT-FORMING TOOL. CHARLES W. STRANSKY, Francis Creek, Wis. Filed June 5, 1928. Serial No. 283,063. 3 Claims. (Cl. 153—15.)



1. A cleat forming tool comprising complemental jaws, an element adapted to have an end portion of the blank bent thereover, an ejector for lifting the cleat to disengage the bent end thereof from the shaping element, and a second ejector for effecting automatic discharge of the cleat when formed.

1,749,518. CAR SEAT. JOHN J. TATUM, Baltimore, Md. Filed Dec. 27, 1927. Serial No. 242,899. 6 Claims. (Cl. 155—112.)

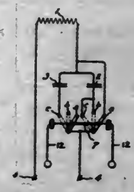


6. A seat back having a divider intermediate its ends forming a part of the back, said divider comprising sections, and means for holding the lower portion of said divider in position to form an arm rest.

1,749,519. PROCESS OF PRODUCING 1-PHENYL-BENZANTHRONE COMPOUNDS. WILLY TRAUTNER, BERTHOLD STEIN, and ROBERT BERLINER, Elberfeld, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 11, 1927, Serial No. 205,030, and in Germany Nov. 23, 1925. 4 Claims. (Cl. 260—61.)

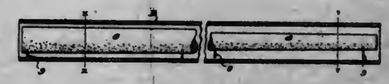
1. The process of producing 1-phenyl-benzanthrone compounds which consists in heating the mixture of an anthrone compound and cinnamic aldehyde in the presence of a high boiling solvent to a temperature of about 200–300° C.

1,749,520. INCANDESCENT ELECTRIC LAMP. NICOLAAS A. J. VOORHOEVE, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed Nov. 10, 1926, Serial No. 147,548, and in the Netherlands Dec. 28, 1925. 2 Claims. (Cl. 176—16.)



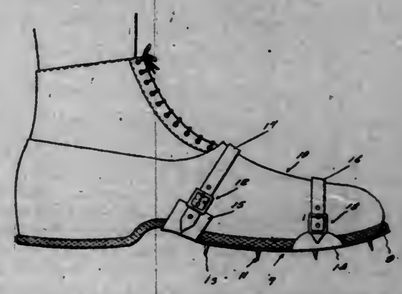
1. An incandescent lamp comprising a bulb, a filament in said bulb, a plurality of condensers mounted on said bulb, and switching means on said bulb for at will connecting one of said condensers in series with all of said filament or more than one of said condensers in parallel with each other and all in series with said filament.

1,749,521. VAPOR PHASE METHOD OF OIL CONVERSION. CARY R. WAGNER, Chicago, Ill., assignor to Gyro Process Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 21, 1928. Serial No. 256,038. 6 Claims. (Cl. 196—61.)



1. In a process of refining oil, the improvement comprising passing a rapid flow of vapors of oil substantially free from hydrocarbon constituents in the liquid state in a stream of restricted cross-section in a series of successive passes through a heater and heating the oil vapors during their passage therethrough to a temperature in excess of 1000° F., and in regulating the flow of the oil vapors through the initial passes of said heater to obtain vapor velocities in said initial passes materially in excess of those existing in the succeeding passes.

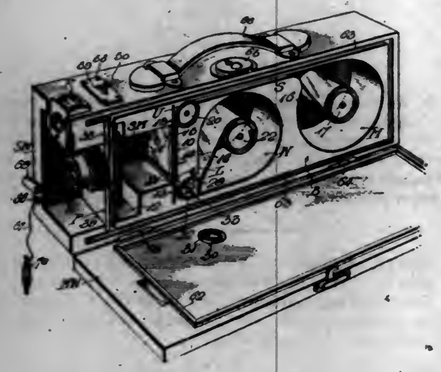
1,749,522. ICE CREEPER. BERTRAND WEDIG, Belmont, Wis. Filed Apr. 29, 1929. Serial No. 358,949. 1 Claim. (Cl. 36—63.)



As a new product of manufacture, an ice creeper of the class described comprising a sole plate composed of an upper ply of metal and a lower ply, said plies being rigidly fastened together, the lower ply being provided with a multiplicity of transverse rows of apertures having countersunk sockets, and anti-slipping calks each including a pointed stem portion and a beveled head portion, the beveled head portion being seated in the complemental socket and the heads of the respective calks being con-

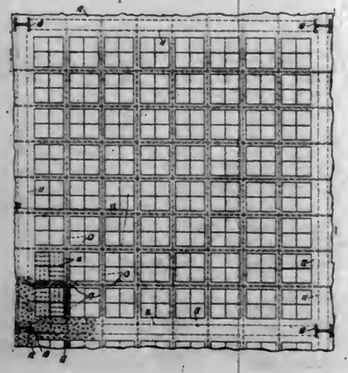
fined between said plies, the lower ply being provided on opposite edges and at longitudinally spaced points with upwardly bent ears engaging the adjacent edges of the upper ply forming toe and arch clips, and attaching and retaining straps associated with the respective pairs of clips.

1,749,523. PHOTOGRAPHIC CAMERA. THOMAS CARROLL WILLSON, Philadelphia, Pa. Filed Jan. 11, 1926. Serial No. 80,531. 7 Claims. (Cl. 95—34.)



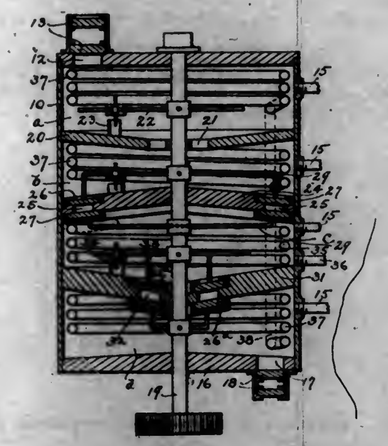
1. A strip advancement indicator comprising a casing having an opening, a strip-engaging roller within the casing having a central pin at one end received within said opening and tapered to an off-center point at its outer end, said point being confined within the opening, and an indicator at the edge of said opening co-operable with said point.

1,749,524. SLAB CONSTRUCTION. THEODORE BARBATO, Union City, N. J. Filed June 6, 1927. Serial No. 196,697. 6 Claims. (Cl. 72—66.)



6. A floor structure or slab comprising a two-way system of re-inforced concrete ribs forming an open-work the apertures of which are closed by units of hollow tile bonded to the ribs in the formation of the latter by the pouring or tamping, and setting, of the concrete between and against the tile units; each such tile-unit consisting of tiles so set one to the other in the plane of the slab that one open end of each tile abuts the side wall of another tile; the tiles acting with the concrete in cantilever formation.

1,749,525. DRIER. CLARENCE J. BLEIL, Los Angeles, Calif. Filed Apr. 12, 1928. Serial No. 269,482. 10 Claims. (Cl. 34—23.)



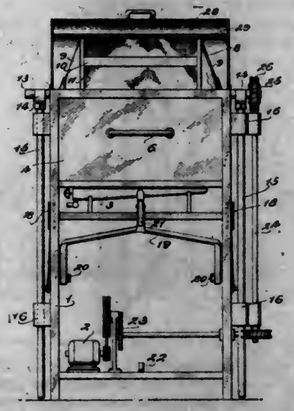
1. In an apparatus for extracting oleaginous constituents, a drier comprising a chamber provided with partitions dividing it into a plurality of independent compartments, certain of said partitions being provided with centrally located openings, the alternate partitions being provided with openings near their peripheries, a rotatable shaft extended through said drier, and valves carried by said shaft and controlling the openings in the respective partitions.

1,749,526. ARTIFICIAL FLOWER. WILLIAM E. COMPTON, Compton, Calif. Filed Sept. 23, 1927, Serial No. 221,512. Renewed Sept. 19, 1929. 3 Claims. (Cl. 41—13.)



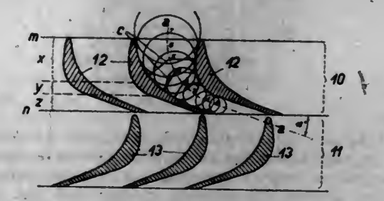
2. A tubular plant element having a stitched, interior hem and tapering end, and a draw string along the stitched portion whereby the string may be drawn to change the shape of the element.

1,749,527. COMBINATION COOKER AND ROASTER. ANTHONY COOK, Logan, Ohio. Filed June 2, 1928. Serial No. 282,466. 6 Claims. (Cl. 53—7.)



1. In a device of the class described, a tank for cooking oil, a drum for rotation within said tank, bearings on which said drum is rotated, and means for raising and lowering said bearings.

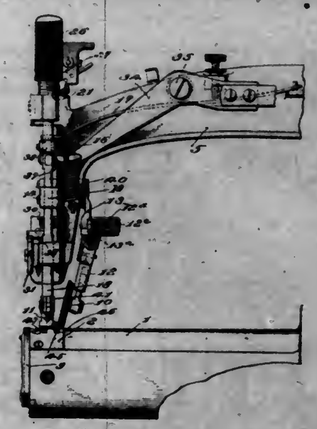
1,749,528. BLADING FOR REACTION TURBINES. JEAN DE FREUDENREICH, Baden, and KARL FENY, Ennetbaden, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed May 13, 1926, Serial No. 108,728, and in Switzerland May 27, 1925. 10 Claims. (Cl. 253—77.)



1. Reaction turbine blading comprising blades extending radially and defining intervening steam passages, the blades having a profile and arrangement giving said passages a relatively wide pressure portion at the entrance side and a relativelly short and restricted velocity portion at the exit side, said portions connecting through an intermediate portion of rapidly contracting width wherein the blade profile converges on the mean steam path of the passage at a rate exceeding that of the sides of an angle of 15°.

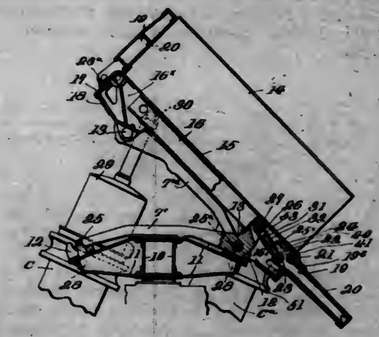
1,749,529. PRESSER-FOOT MECHANISM FOR SEWING MACHINES. WILLIAM A. FRIGEL, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 8, 1925. Serial No. 54,205. 10 Claims. (Cl. 112—235.)

1. In a sewing machine, the combination of a work support, a feed dog, needles, a roller presser foot at one side of said needles, spring means for yieldingly holding said roller foot against the work, a main presser bar on which said roller foot is supported, an auxiliary presser foot mechanism including an auxiliary presser bar disposed in rear of said main presser bar, and an auxiliary presser foot on the needle side of said roller presser foot, said auxiliary presser foot having a shank rigidly secured to the lower end of said auxiliary presser bar and having a free sliding connection with said main presser bar whereby



said auxiliary presser foot can move vertically independently of the main presser bar and is held from lateral movement about the axis of said auxiliary bar by said main bar and independent spring means for holding the auxiliary presser foot against the work.

1,749,530. YIELDING-DOOR MECHANISM. HENRY FORT FLOWERS, Findlay, Ohio. Filed May 7, 1928. Serial No. 275,759. 15 Claims. (Cl. 105—276.)

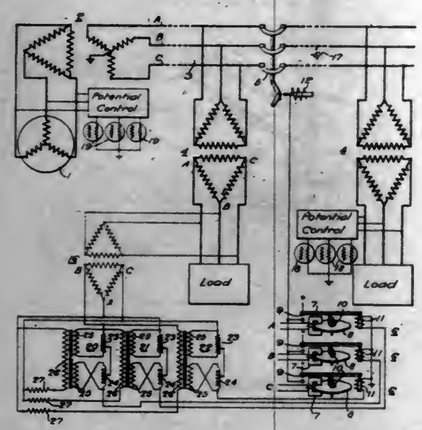


1. In a dump vehicle, a frame, a dump body mounted on the frame to be tiltable for dumping at either side of the vehicle, a side door pivoted to said body and adapted to open during the tilting of the body whereby the load may be discharged, and a door controlling device cooperating with the body and the frame to positively close the door during the return of the body from tilted position, said device including a sacrifice member adapted to yield when the door is blocked against closing, whereby to avoid a breakage of another part of the vehicle.

1,749,531. RELAY SYSTEM. SHIRLEY L. GOLDSBOROUGH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 2, 1925. Serial No. 41,172. 4 Claims. (Cl. 175—294.)

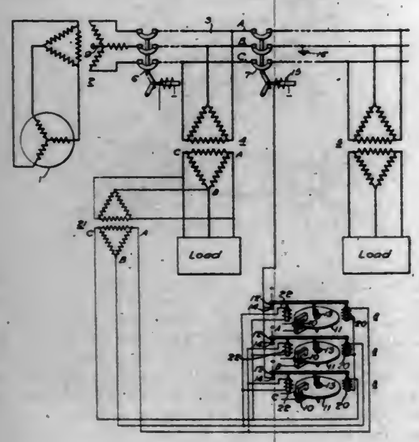
3. An electrical system comprising a polyphase transmission circuit having a grounded neutral, a substation, an

ungrounded transformer in said substation supplying a relatively low-voltage load from said transmission circuit, a ground relay having a current actuating winding and a voltage-restraining winding, connections between said voltage-restraining winding of said relay and the



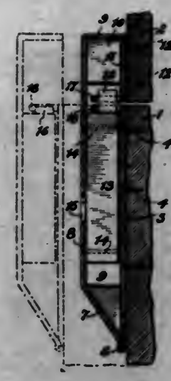
low-voltage winding of said transformer and means including a transformer having a winding in series with said voltage-restraining winding of said relay for modifying the energization thereof in accordance with the displacement of the neutral of said ungrounded load transformer when a ground fault occurs upon the transmission circuit.

1,749,532. RELAY SYSTEM. SHIRLEY L. GOLDSBOROUGH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 2, 1925. Serial No. 41,173. 6 Claims. (Cl. 175—294.)



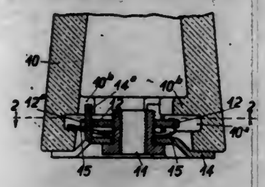
1. In an electrical system, the combination with a main circuit, of a relay connected to said circuit comprising a current element energized in accordance with the current traversing the circuit, and a plurality of voltage elements one of which is energized in accordance with the actual value of a voltage in the circuit when it is affected by a fault upon one conductor thereof, and another of which is energized in accordance with an apparent value of a voltage in the circuit under such conditions.

1,749,533. LOCK. LOUIS GRAVEURE, New York, N. Y. Filed Oct. 8, 1927. Serial No. 224,784. 1 Claim. (Cl. 70—5.)



A lock having a securing plate, a keeper, a casing pivotally attached to said plate and enclosing the keeper, a bolt for engagement with the keeper, and means on the securing plate constantly engaged by the bolt to hold the casing in a position to cover its securing plate when the lock is either in its closed or open position.

1,749,534. INSULATOR CONSTRUCTION. ARNOLD HALLER, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Feb. 18, 1926, Serial No. 89,179, and in Germany Feb. 26, 1925. 5 Claims. (Cl. 173—321.)



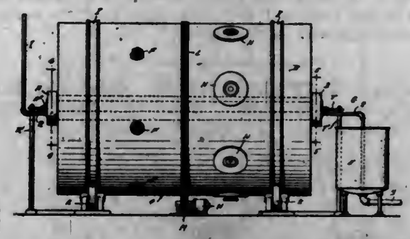
1. Insulator construction comprising the combination with an insulator having an inwardly extending flange, of a clamping member, a clamping nut, radially adjustable members between the clamping member and nut, and a bushing operable in the clamping member and nut to secure the radially adjustable members and clamping member in clamping engagement with said flange.

4. In insulator construction, an insulating body member having a notched internal flange, a nut having notches registering with the notches in said flange, a clamping plate having portions extending laterally therefrom and disposed in the notches in said flange and said nut to prevent rotation thereof, and means cooperating with said nut to clamp said plate against said body member.

1,749,535. SYSTEM FOR HOLDING MILK. BARGE L. HARTZ, Elyria, Ohio. Filed Nov. 16, 1925. Serial No. 69,364. 25 Claims. (Cl. 137—21.)

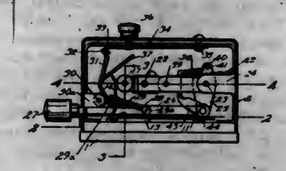
1. In a system or apparatus for holding milk, the combination of a container, and means for rotating the same about a horizontal axis, of a series of radially extending tanks within said container, the heads of the container and the outer wall thereof constituting end and outer walls for the tanks, check valves in the outer wall of the container arranged to admit air to the tanks therein, a conduit for supplying milk to the tanks in said container, valve mechanism comprising a casing secured to and concentric with one end of the container and having ports

communicating with the tanks therein, a plug within said casing having a port which communicates with the conduit and which is adapted to register with the casing ports successively, a valve casing at the opposite end of the container and having emptying ports communicating with the tanks therein, and a valve plug within the last-mentioned casing having an emptying port adapted to register successively with the ports in said casing and also having a



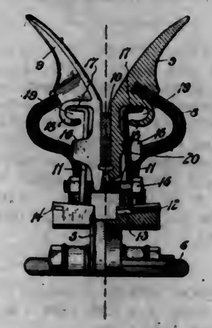
venting port angularly spaced from such emptying port and adapted to register successively with the ports in the last-mentioned casing thereby to vent each tank during the filling operation, the last-mentioned plug being provided with a port extending therethrough adapted to deliver milk that may leak from one of the said tanks through an emptying port in the last-mentioned casing into a tank further remote from the emptying port in said plug.

1,749,536. SWITCH. JAY J. HOGAN, Erie, Pa., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 21, 1927. Serial No. 162,487. 20 Claims. (Cl. 200—116.)



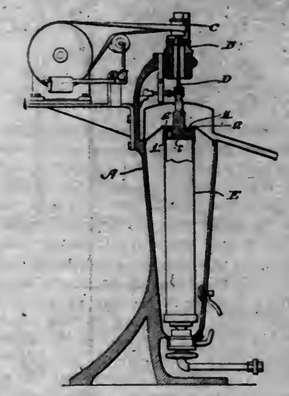
1. In a switch, the combination of a manually actuated closing means; a manually actuated opening mechanism; an electrically responsive member put in circuit by the closing of the switch; and devices actuated by the electrically responsive member opening the switch comprising a catch, one engaging surface of the catch being a roller.

1,749,537. HIGH-TENSION SWITCH. TOMLINSON FORT JOHNSON, Jr., Atlanta, Ga. Filed Oct. 4, 1926. Serial No. 139,459. 12 Claims. (Cl. 200—166.)



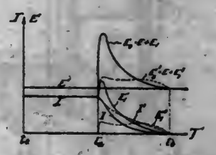
1. In a switch, the combination of a pair of opposed spring plates, and a pair of contact jaws loosely and wholly supported by the respective plates to permit limited up and down movement of the jaws and adapted to receive a switch blade between them, each of said jaws having a rounded knob on its outer face engaging the inner face of its supporting plate, and constituting a fulcrum about which the jaw may rock transversely of the plate to aline itself with the surface of the switch blade.

1,749,538. CLARIFIER BOWL. LEO D. JONES and ARTHUR U. AYRES, Philadelphia, Pa., assignors to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 4, 1925. Serial No. 54,478. 1 Claim. (Cl. 233—46.)



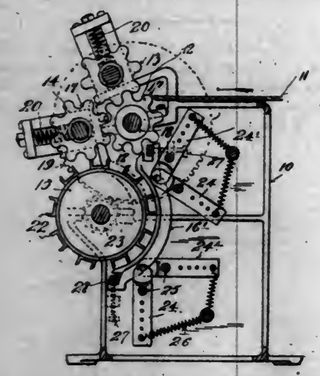
A centrifugal clarifier bowl, comprising a substantially cylindrical bowl shell open at one end, a head for the open end of said shell and comprising a neck adapted for supporting and rotating said bowl and a disc-like portion secured to said neck and to the open end of said shell and having passages extending therethrough in the direction of the axis of the bowl, the radially outermost walls of said passages being substantially parallel with the axis of the bowl and being spaced from said axis a radial distance substantially equal to the radial distance from the axis to the inner wall of said shell, the radially innermost portion of said passages lying adjacent said neck and said passages providing unobstructed access to the interior of the bowl, a removable and replaceable ring dam surrounding said neck in spaced relation and extending radially outward beyond the outermost wall of said passages, and means clamping said dam in position to control discharge through said passages.

1,749,539. SWITCH APPARATUS. ROBERT KELLER, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed June 28, 1927, Serial No. 202,103, and in Germany July 3, 1926. 3 Claims. (Cl. 175—294.)



1. In a circuit comprising a source of energy and impedance means, a switch having a pair of main arcing electrodes for interrupting the current in said circuit, one of said electrodes being connected to one terminal of said impedance means, an auxiliary arcing electrode associated with said switch and connected to the other terminal of said impedance means, said auxiliary electrode being disposed in the path of the travel of the interrupting arc on said one of said electrodes and forming therewith a gap converging in the direction of arc travel.

1,749,540. MACHINE FOR OBTAINING THE FIBERS FROM FIBROUS PLANTS. GEORGE A. LOWRY, New York, N. Y., assignor to Fabricord, Inc., New York, N. Y., a Corporation of New York. Filed July 18, 1925. Serial No. 44,496. 6 Claims. (Cl. 19—27.)

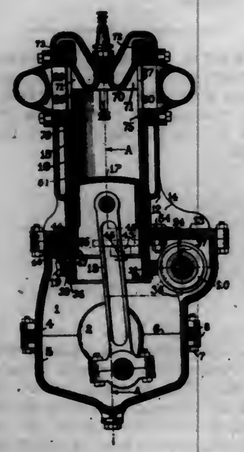


1. In a machine for obtaining the fiber material from fibrous leaves and fiber bearing plants, a scraper mechanism including a scraper device and an apron cooperating therewith, said apron comprising floating fingers disposed longitudinally of the path of travel of the material, means for bodily tensioning each end of the fingers onto the scraping device and adjustable means at the ends of said fingers for limiting the movement of the fingers.

1,749,541. COMPOUND FOR FILLING RECESSES IN METAL CASTINGS AND THE LIKE. ZACHEUS M. MARR, Fremont, Nebr. Filed Apr. 16, 1928. Serial No. 270,583. 3 Claims. (Cl. 106—8.)

3. A luting composition consisting of such a mixture of sulphur, graphite and antimony as to produce a filler having a comparatively high melting point and degree of hardness and capable of use when melted as a filler for castings.

1,749,542. INTERNAL-COMBUSTION ENGINE. LAURENCE LEIGH MEAD, Carlinville, Ill. Filed June 14, 1926. Serial No. 115,898. 12 Claims. (Cl. 123—80.)



1. In an internal combustion engine of the class described the combination of a suitable crankcase, crankshaft, pitman and piston; of a cylinder casing mounted thereon with a sleeve valve telescoped and in sliding revoluble contact therewith, with ports adapted to register; of actuating mechanism connected with the crankshaft for suitably actuating said valve, and means for carrying the radial load of said actuating mechnism and preventing rubbing of the valve on adjacent parts resultant from said load; said means being a spindle so disposed as to carry said thrust or load, said spindle being operatively connected with said valve by parts rotatively co-operating with said spindle.

1,749,543. HAND HAIR CLIPPER. JOHN OSTER, Racine, Wis. Filed Sept. 2, 1926. Serial No. 133,158. 9 Claims. (Cl. 30—1.)



1. In a hair clipper, a fixed lower blade, a reciprocating upper blade slidably mounted thereon, a cap resiliently mounted at its rear on the rear of the fixed blade and extending forwardly a distance over the reciprocating blade, the reciprocating blade formed with a groove thereacross and a slot through the blade at the central portion of the groove, the forward edge of the cap slidably engaged by said groove and formed with a tongue depending through said slot for movement vertically therein and permitting limited reciprocation of the blade, the forward edge of the cap alining the reciprocating blade with the fixed blade and movable vertically due to the resilient mounting of the cap to increase or decrease the pressure thereof exerted on the reciprocating blade to adjust the tension between the blades.

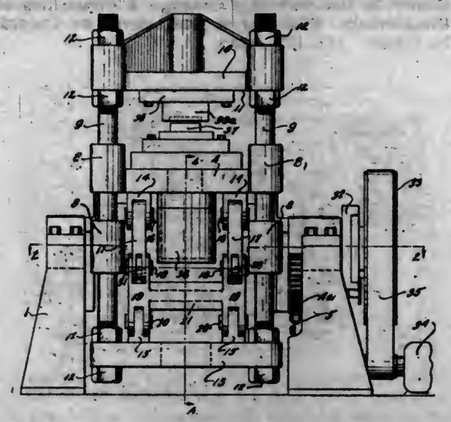
1,749,544. EXERCISING APPARATUS. JOSEPH PAGANO, Memphis, Tenn. Filed Feb. 13, 1928. Serial No. 253,979. 7 Claims. (Cl. 272—79.)



7. In an exercising apparatus, comprising handles and elastic straps, detachable connecting means, each comprising a slotted hollow cylindrical member secured to a handle, an elongated link of a slightly greater length than said cylindrical member, having one side operatively positioned within said member and capable of being detached therefrom and re-attached thereto, a strap end folded over the opposite side of said link and means securing said strap to said link.

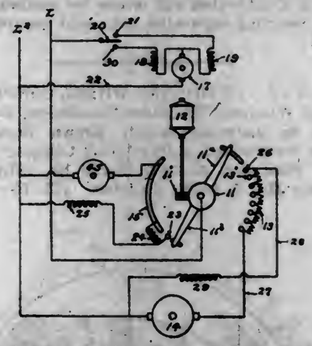
1,749,545. PUNCH PRESS. ERNEST P. PIERCE, Cleveland, Ohio. Filed Jan. 27, 1928. Serial No. 249,933. 10 Claims. (Cl. 113—38.)

1. In a punch press, a base, a body having a bed portion, a head arranged on said body for opening and closing movement, and actuating means having a driving connection with said head, said body being arranged for adjustment on said base about a horizontal axis, and



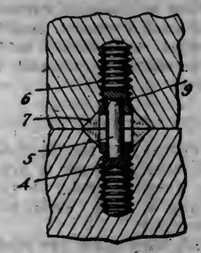
said driving connection having a member arranged along said axis whereby said connection is not affected by said adjustment.

1,749,546. WEB-CUTTING MECHANISM. HOWARD REYNOLDS, New Orleans, La., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 28, 1928. Serial No. 273,672. 9 Claims. (Cl. 164—67.)



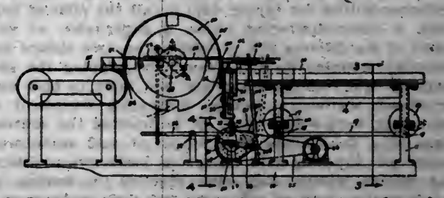
1. In a printing machine, the combination of a press motor, a cutting cylinder driven by the press motor, a cutting element carried by the cylinder, a power means independent of the press motor for effecting a movement of the cutting element, and means for actuating the power means before the starting of the press motor.

1,749,547. DOWEL-PIN CONSTRUCTION. MARTIN T. RUDDY, Lakewood, Ohio. Filed Aug. 16, 1926. Serial No. 129,680. 1 Claim. (Cl. 85—42.)



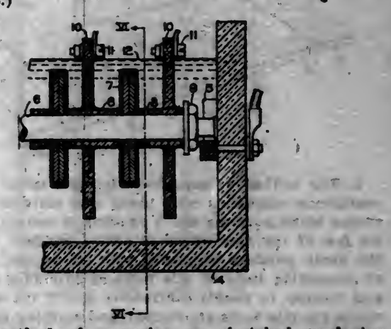
A dowel pin construction comprising two axially opposed members, each of said members having a threaded shank and a transverse slot at one end whereby the members may be inserted into an object, said members each having an axial socket formed in the shank, and a pin carried by the socket of one of said members and adapted to be inserted into the socket of the other member.

1,749,548. BRICK-WRAPPING MACHINE. JOHN J. SCHLOSSER, Frankfort, Ind. Filed Sept. 4, 1926. Serial No. 133,649. 8 Claims. (Cl. 93—7.)



1. In a wrapping machine, the combination of a wheel including an article receiving pocket, means positioned adjacent the peripheral path of said wheel, additional means positioned adjacent the sides of said wheel for simultaneously engaging an article wrapping for folding the same, means for rotating said wheel for securing said wrapping, and means for rotating said wheel in opposite directions for wrapping.

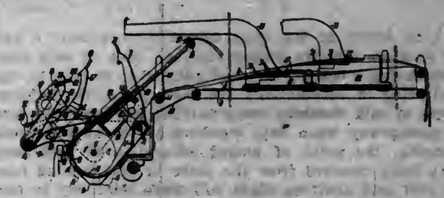
1,749,549. RECTIFIER. JOSEPH SLEPIAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 19, 1927. Serial No. 162,078. 19 Claims. (Cl. 175—818.)



2. The method of preparing an electrical conductor possessing a uni-lateral conductivity which comprises forming, on copper, a compound thereof and subjecting the surface of said compound to electrolytic reduction.

12. A conducting body comprising a base of mother metal, a layer comprising a chemical compound of said mother metal, and a third layer produced by electrolytic reduction of said chemical compound.

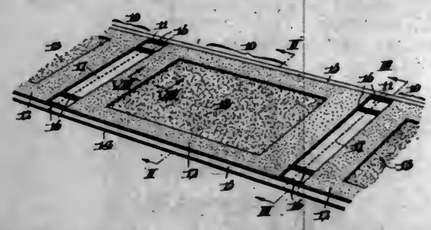
1,749,550. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 30, 1927. Serial No. 202,631. 22 Claims. (Cl. 197—126.)



1. In a carbon-stripping web-manifolding typewriting machine, in combination, a carriage, a platen around

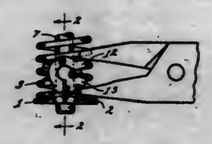
which may be fed a multiple-ply record-web and an outer, narrower multiple-ply work-web printed with a succession of forms, each form bearing space for name and address, said outer work-web being disposed intermediate the side edges of said record-web, a rear extension for said carriage including a track, two separately-movable carbon-carriers on said track, one disposed behind the other for holding carbons interleaved between the plies of said record-web, the front carbon-carrier holding carbons interleaved between the plies of said outer work-web, typing instrumentalities for typing data on all the plies of both webs, a platen-displacing frame, a paper-table on said frame at the delivery side of said platen, two clamps displaceably mounted on said frame for gripping the side edges of said record-web against said table to hold said record-web stationary without preventing movement of said outer work-web, a gage for positioning the address-space of a form above the carbons of said record-web, means for disposing said clamps in ineffective positions, and reverse feeding mechanism effective for feeding, at one operation, both of said webs and their carbons rearwardly a predetermined amount to bring the carbons of said record-web below the printing line and the first line of said address to the printing line preparatory to typing said address and thereafter severing said form.

1,749,551. PILE FABRIC. JAMES P. STROUD, Noble, Pa. Original application filed Aug. 2, 1926, Serial No. 126,375. Divided and this application filed Feb. 27, 1928. Serial No. 257,387. 3 Claims. (Cl. 139—405.)



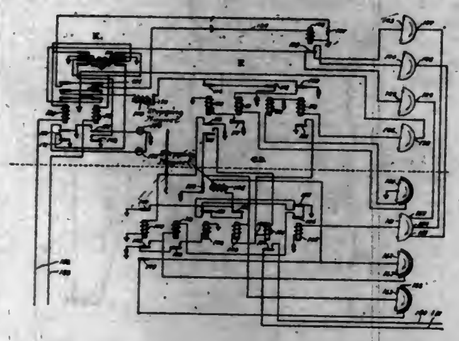
1. The method of manufacturing pile fabric articles in continuous succession with blank side margins and intervening blank portions which consists in maintaining a certin few of the face warps in action incident to weaving the blank portions aforesaid with consequent production of connecting lines of pile tufts at intervals theresacross and thereby to enable continuous use of the wires about which the pile loops are formed, and severing the material so produced across the blank portions into individual articles.

1,749,552. SPRING RETAINER. JOHN R. WARREN, Grand Rapids, Mich., assignor of one-half to Alfred Brechting, Grand Rapids, Mich. Filed May 10, 1928. Serial No. 276,559. 10 Claims. (Cl. 251—144.)



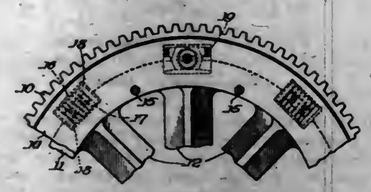
1. A device of the class described comprising a pair of members directly hinged together, each of said members having a bearing face and adapted to fit edge to edge and being in substantially the same plane, the adjacent edges of said members being notched in registry to form a passageway when said members are in abutting relationship, the point of hinged connection of said members being removed from the plane of said bearing faces so that said abutting edges will move relatively to each other when said members are swung on their hinged connections.

1,749,553. SUPERVISORY CONTROL SYSTEM. ROY J. WENSLEY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 6, 1923. Serial No. 655,793. 14 Claims. (Cl. 177—353.)



9. In a supervisory control system, a first station, a second station, apparatus units at said second station, normally non-operating selecting apparatus at said first and said second station, means for starting said selecting apparatus into operation, means for operating said selecting apparatus in synchronism, means including said selecting apparatus for selecting one of said apparatus units for operation, means for preventing the operation of any of said units except when said selecting apparatus operate in synchronism and means for continually operating said selecting apparatus until said apparatus unit is operated.

1,749,554. CUSHIONED-WHEEL CONSTRUCTION. ALFRED WICHERT, Mannheim-Neuostheim, Germany, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Apr. 27, 1927, Serial No. 187,087, and in Germany May 7, 1926. 8 Claims. (Cl. 74—29.)

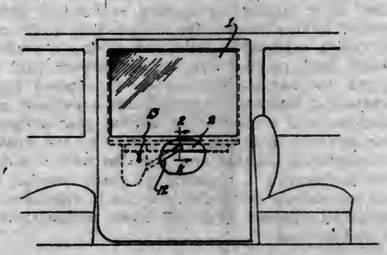


1. In a wheel construction, the combination with a power receiving portion and a power transmitting portion connected for limited relative rotational movement, of buffing means for opposing spring resistance to such relative rotational movement, cooperating friction plates operated by said portions to interpose frictional resistance to their relative rotational movement, said friction plates being rendered effective consecutively incident to such relative rotational movement to increase the frictional resistance progressively.

1,749,555. SASH-OPERATING MECHANISM. ALOIS J. ZWIERZINA, Detroit, Mich., assignor to Ackerman, Blaesser, Fezzy, Inc., Detroit, Mich., a Corporation of Michigan. Filed Aug. 4, 1926. Serial No. 126,988. 2 Claims. (Cl. 268—126.)

1. In sash operating mechanism, the combination with a sash having a way at its lower edge, of a roller riding in the said way, a shaft for the roller, an operating arm

for raising and lowering the sash to which the shaft is fixed, the roller being formed of two half parts each independently rotatable upon the shaft, a spring tending to force the two half parts together, the two half parts



being shaped to provide a peripheral groove in which the edge of the sash lies and the said spring tending to force the halves to engagement with the sash on the one side and the bottom of the way on the other whereby the said roller is held under tension in the way.

1,749,556. SHADE OR BLIND. AUGUST AMREIN, St. Petersburg, Fla. Filed June 30, 1927. Serial No. 202,685. 8 Claims. (Cl. 156—16.)

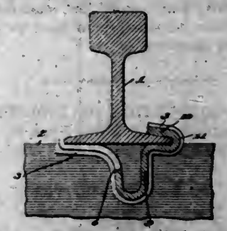


2. Shades or blinds, comprising slats each having single slots extending longitudinally of their length and positioned near the top edges of the slats, tapes folded to form loops which pass through said slots, means in the loops to retain them in assembled position, said slats having openings therethrough, and cords passing through said openings to effect the raising and lowering of said slats and said slats being at all times vertically disposed during the raising and lowering of the shade.

1,749,557. TREATING RESIDUAL LIQUORS ACCRUING FROM THE TREATMENT OF CELLULOSE MATERIAL. PIERRE ALFRED BARBOU, Paris, France, assignor to Société Barbou & Cie., Paris, France, a French Corporation. Filed Apr. 5, 1927, Serial No. 181,282, and in France Apr. 21, 1926. 2 Claims. (Cl. 23—131.)

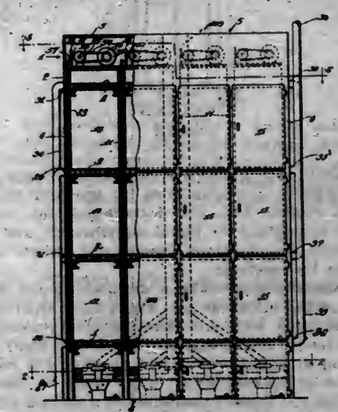
1. A process for recovering SO_2 and Na_2O contained in residual liquors derived from the boiling of cellulose material, comprising a treatment of the said residual liquors, accruing from the boiling of vegetable matter in a sodium sulphite solution, with an alkaline-earth base to produce caustic soda, an organo-sodium compound and an insoluble alkaline-earth metal sulphite, and treating the liquors thus obtained with a bisulphite to form a sodium sulphite, this compound being formed together with the precipitation of organic matter in the form of organo-metallic combinations corresponding to the bisulphites used.

1,749,558. RAILWAY-RAIL ANCHOR. ARTHUR E. H. BARILI and JACOB A. HYLE, Los Angeles, Calif., assignors to Empire Railway Supply Corporation, a Corporation of Delaware. Filed Aug. 26, 1929. Serial No. 388,591. 7 Claims. (Cl. 238—330.)



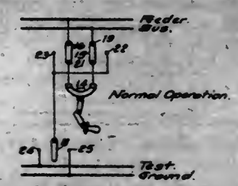
1. A single piece rail anchor formed with a thickened reinforced portion at each side, an intermediate thinner portion forming a resilient tongue member, and a clamping jaw formed at each end portion thereof.

1,749,559. APPARATUS FOR SMOKING, CURING, AND DRYING FOOD PRODUCTS AND THE LIKE. ALBERT P. D. BELANGER, Chicago, Ill., assignor to Reynolds Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 15, 1928. Serial No. 285,574. 9 Claims. (Cl. 99—2.)



1. In an apparatus of the class described, the combination of a plurality of superposed treating chambers, an inlet passage leading into the lowermost chamber, an outlet passage leading from the upper part of an adjacent upper chamber, an intermediate connecting passage between said chambers, means associated with said inlet passage, for supplying gaseous fluid to the same, and means for opening and closing said passages in predetermined order.

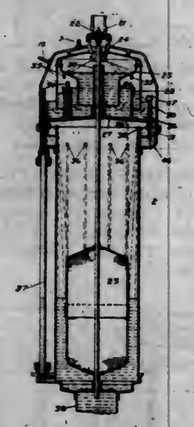
1,749,560. SWITCH MECHANISM. JAMES M. BROWN, deceased, Pittsburgh, Pa., by Jane D. Brown, administratrix, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 11, 1927. Serial No. 182,677. 15 Claims. (Cl. 200—5.)



1. A switch mechanism comprising a circuit breaker, disconnecting switches for the circuit breaker, the dis-

connecting switches having three positions, operative, open and test, a motor-operated mechanism for moving the disconnecting switches to and from their open operative positions, and means for manually operating the disconnecting switches to and from their open positions and their test positions, and means for rendering the motor-operated mechanism inoperative so long as the manually-operated means is operable.

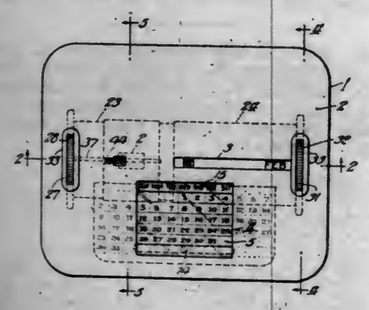
1,749,561. DEGASIFICATION OF LIQUIDS. RALPH W. CADMAN, Pittsburgh, Pa. Filed June 26, 1924. Serial No. 722,626. 10 Claims. (Cl. 183—2.5.)



1. Apparatus for degasifying liquids, comprising a reservoir, a degasifier, a conduit from the reservoir to the degasifier, a conduit from the degasifier to the reservoir, means for circulating the liquid therethrough, and a division wall in the reservoir between the outlets of said conduits in the reservoir.

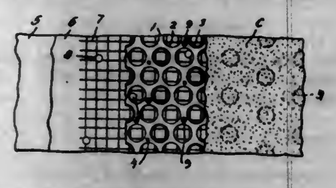
5. A degasifier comprising a chamber having a liquid inlet port, a gas discharge port and a liquid delivery port, means associated with said inlet port for projecting the water delivered therethrough in the form of spray, baffles located and arranged within said chamber for collecting and consolidating such spray into a body of liquid and for directing the liquid so collected in a defined upwardly moving stream, and means communicating with said delivery port for increasing the pressure of the liquid and for discharging it from said chamber.

1,749,562. CALENDAR. JOHN B. CARROLL, Oak Park, Ill. Filed Oct. 15, 1928. Serial No. 312,559. 8 Claims. (Cl. 40—111.)



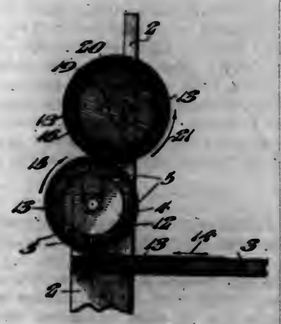
1. In a calendar, the combination of a casing having a windowed front side, a cylindrical week day name designating member rotatively mounted in the casing and having thereon designations of the week day names of the first days of the months of a plurality of years adapted to be moved to and from a window opening in said casing, a cylindrical month designating member mounted in concentric rotative relation to and adapted to encircle the week day name designating member, said month designating member having thereon the designations of the names of the twelve calendar months and having a perforated peripheral wall portion adapted to uncover said week day name designations successively in exposed position in coordinated relation to corresponding exposed month designations, and a rotative cylindrical year designating member mounted in concentric relation to the week day name designating member and provided with a series of numbers designating a plurality of years adapted to be exposed successively in reading position in alignment with corresponding exposed week day name designations and month designations.

1,749,563. FLOOR CONSTRUCTION. HAROLD B. CHAMBERLAIN, East Orange, N. J., assignor to Tuco Products Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 25, 1929. Serial No. 357,916. 7 Claims. (Cl. 94—3.)



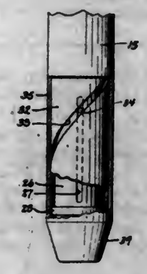
1. A floor structure of the type described comprising a sub-floor, a reinforcing member above said sub-floor, a metallic plate above said reinforcing member, upwardly protruding wear-retarding extensions on said plate, means for securing said reinforcing member and said plate to said sub-floor and a plastic surfacing material embedding said reinforcing member and said plate and extending above said wear-retarding extensions.

1,749,564. METHOD OF AND APPARATUS FOR STEAMING AND REFINISHING CLOTH. ISRAEL COHEN, Philadelphia, Pa. Filed Apr. 13, 1929. Serial No. 354,846. 3 Claims. (Cl. 26—48.)



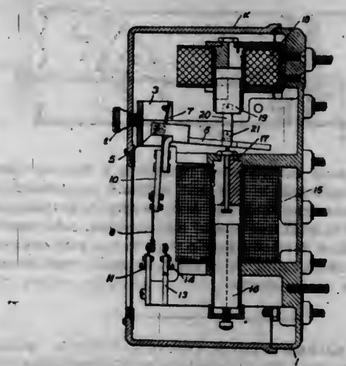
1. In a device of the character stated, an upright frame, a perforated cylinder rotatably carried by said frame, means for rotating said cylinder, an idle press roll positioned upon and rotatable with said cylinder, the longitudinal axis of said press roll being disposed between vertical planes passing through said upright frame and through the longitudinal axis of said cylinder, and end journals for said press roll adapted to bear against the upper ends of said frame to prevent horizontal displacement of said press roll.

1,749,565. TOILET ARTICLE. CHARLES N. CORTELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 6, 1927. Serial No. 181,301. 4 Claims. (Cl. 132—79.)



3. A container comprising an inner casing capacitated to carry a toilet accessory, a second inner casing arranged end to end with the first casing and frictionally secured thereto capacitated to carry a toilet accessory, outer casings enclosing the inner casing and removable in opposite directions, each outer casing forming a handle for the container when the other outer casing is removed.

1,749,566. RELAY. LESLIE N. CRICHTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 5, 1923. Serial No. 672,828. 9 Claims. (Cl. 200—106.)

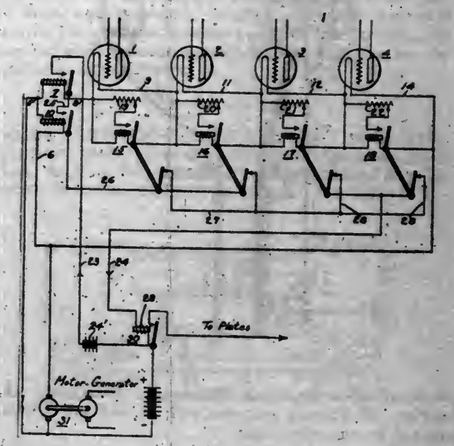


1. In an electrical control mechanism, a coil, a movable core member therefor, a second movable member independently mounted in the path of said core member to be actuated thereby, latching means for retaining said second movable member only in its actuated position, a contact member mounted on said movable member, and a plurality of stationary contact members between which said movable contact member is adapted to move upon the energization of said coil.

1,749,567. ALKYLATED LEAD. HERBERT W. DAUDT, Carneys Point, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 15, 1927. Serial No. 226,529. 13 Claims. (Cl. 260—11.)

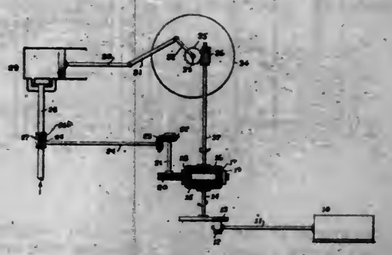
1. A process for making an alkylated lead which comprises effecting a reaction solely between an alloy of lead with at least one alkali metal, and an alkyl chloride, at substantially atmospheric pressure.

1,749,568. PROTECTIVE SYSTEM FOR TRIODES. ROBERT L. DAVIS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1924. Serial No. 739,251. 6 Claims. (Cl. 250—27.)



2. In combination, a thermionic device comprising a cathode and an anode, means for heating said cathode, means capable of energizing said anode, and means permitting the energization of said anode only during the continued maintenance of said cathode at its normal operating temperature.

1,749,569. SPEED REGULATOR AND METHOD OF SPEED REGULATION. LUIS DE FLOREZ, Pomfret, Conn. Filed July 8, 1924. Serial No. 724,017. 14 Claims. (Cl. 137—78.)

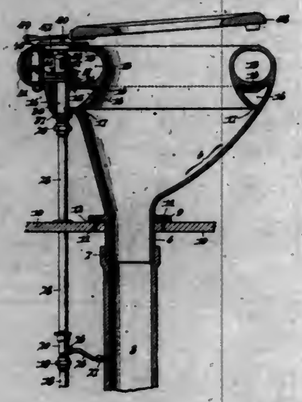


1. A speed regulator comprising a conduit adapted to carry a flow of fluid, means in said conduit for measuring the rate of flow of fluid therein, a speed standard, and means for regulating the rate of flow of fluid in response both to such rate of flow and to the rate of speed of the speed standard.

1,749,570. WATER-CLOSET. JOSEPH DE ROSE, Philadelphia, Pa. Filed Nov. 3, 1928. Serial No. 317,075. 11 Claims. (Cl. 4—23.)

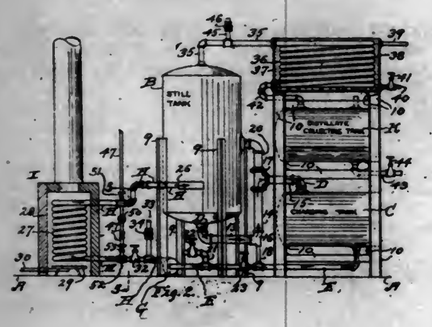
1. The combination with a water-closet embodying a flush-water reservoir about its top and a yieldingly sup-

ported seat, of a remote valve located well below normal ground-freezing level and controlling supply of flush-water to said reservoir, and an alignment oppositely mov-



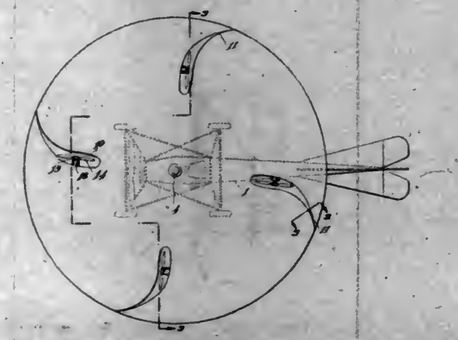
able local valve governing discharge of water from the reservoir for flushing purposes, both of said valves being actuated by the closet seat.

1,749,571. APPARATUS FOR TREATING USED LUBRICATING OIL. RICHARD M. DILWORTH, Lakewood, and FRED G. NIECE, Cleveland, Ohio, assignors to The Electro-Motive Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 4, 1927. Serial No. 231,032. 11 Claims. (Cl. 196—16.)



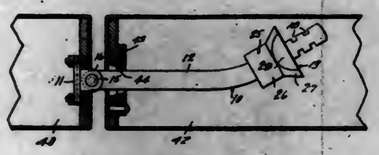
1. Apparatus of the character indicated comprising a still-tank having a vapor-outlet, a charging tank arranged externally of the still-tank, piping leading from the bottom of the still-tank and arranged to feed oil from the still-tank to the charging tank, a pump, piping arranged to feed oil to said pump from the charging tank, piping arranged to feed oil from said pump to the still-tank, heating means arranged in connection with the last-mentioned piping and adapted to be employed in heating oil being fed to the still-tank, means whereby steam may be supplied to oil being fed to the still-tank, and a drain-pipe placed in communication with the first-mentioned piping and with the second-mentioned piping, said drain-pipe and connected first-mentioned piping and second-mentioned piping being relatively arranged and capacitated to effect the draining, into the second-mentioned piping, of water that may accompany oil being conducted from the still-tank by the first-mentioned piping.

1,749,572. AEROPLANE. ALBERT W. DORGAN, Birmingham, Mich., assignor of one-half to George W. Yeoman, Detroit, Mich. Filed Feb. 11, 1928. Serial No. 253,538. 5 Claims. (Cl. 244—15.)



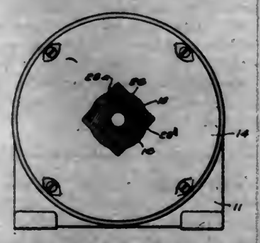
1. In an aeroplane, a fuselage, a disk rotatably mounted over said fuselage, said disk being supported to lie normally in a horizontal plane, means for rotating said disk, said disk having substantially radial openings from the upper to the lower surface thereof, and propellers mounted in said openings, said propellers lying in planes substantially radial to said disk.

1,749,573. DOORCHECK. ALBERT C. EARHART, Cleveland Heights, Ohio. Filed July 10, 1929. Serial No. 377,092. 2 Claims. (Cl. 16—86.)



1. A door-stop construction including a bar, a rubber cushion through which said bar extends, a member detachably secured to said bar and having a bearing surface adapted to abut one end of said cushion, said cushion having a cavity formed therein to receive said member, said cavity conforming in shape to said member and receiving the same snugly.

1,749,574. LUBRICATING DEVICE. RALPH EHRENFELD, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 14, 1928. Serial No. 326,030. 5 Claims. (Cl. 308—182.)



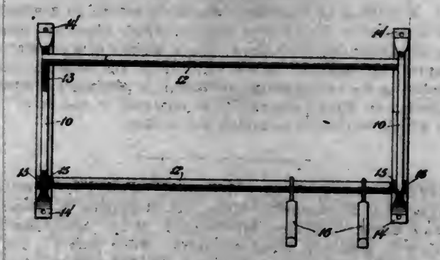
1. In a lubricating system for an electric motor to be selectively mounted in any one of a plurality of positions, in combination, a bearing housing having a shaft-receiving opening therein, a plurality of lubricant-receiving openings extending through the housing angularly relative to the axis of the shaft and communicating intermediate their ends with the shaft-receiving opening, lubricant in each of said last named openings, a puncturable seal at each end of said last named openings and a perforated protecting cap for each seal, whereby selective puncturing of the uppermost seal may be effected in accordance with the motor mounting.

1,749,575. PROCESS OF DISINFECTING SEEDS AND COMPOSITION THEREFOR. MAX ENGELMANN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 29, 1926. Serial No. 145,099. 8 Claims. (Cl. 167—16.)

7. A process for the disinfection of seeds, which comprises treating the seeds with a mixture of copper sulfate and an alkaline substance insufficient in amount to convert the copper sulfate entirely to the insoluble basic sulfate.

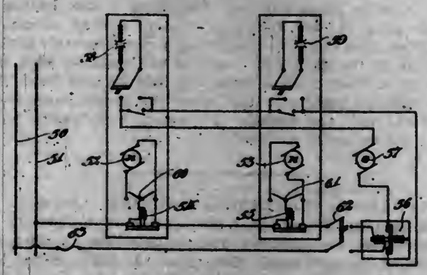
8. A process for the disinfection of seeds, which comprises treating the seeds with a dry, finely powdered mixture of copper sulfate and magnesium oxide, the amount of the latter being insufficient to convert the copper sulfate entirely to the insoluble basic sulfate.

1,749,576. GARMENT RACK. WILLIAM LEWIS EVANS, Washington, Ind. Filed Nov. 7, 1928. Serial No. 317,776. 2 Claims. (Cl. 211—87.)



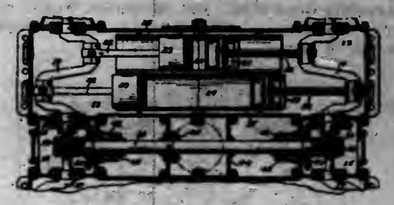
1. A rack of the character described comprising, in combination, end brackets having provision to be secured to a wall; vertically spaced, horizontal rows of wooden bars supported between the brackets to provide hat supports, the front bar of the lower shelf being made of metal and made fast to the brackets to add rigidity and to afford a coat hanger support.

1,749,577. FIRE-PREVENTING MEANS FOR MOTION-PICTURE-PROJECTING MACHINES. THOMAS LEWIS FENNEY and HUMBERT GODOY, Philadelphia, Pa., assignors, by mesne assignments, to Sentry Safety Control Corporation, Philadelphia, Pa. Filed Dec. 11, 1926. Serial No. 154,095. 2 Claims. (Cl. 88—17.)



1. In a mechanism for motion picture projection, a source of alternating current, a motor and a switch for connecting said motor with said source, a make and break switching device and a second switch for energizing said device in circuit with said source, a direct current generator adapted to be placed in circuit for maintaining an electric arc for projecting a film upon a screen, means operative responsive to said first switch for starting said motor, means including said device operative responsive to said second switch for starting said generator to cause said arc to function, said device being dependent for its energization upon said two switches and said source of alternating current, said generator being instantaneously inoperative upon the de-energization of said device.

1,749,578. OPPOSED-PISTON ENGINE. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Nov. 26, 1927. Serial No. 235,981. 4 Claims. (Cl. 123—51.)



1. In an opposed piston engine, four like castings each having a crank case formed at one end and a pair of open ended cylindrical bores extending into said crank case from the other end, means for securing the castings together in pairs each pair consisting of two continuous cylinders and two spaced crank cases thereby forming an engine half, a crank shaft disposed in each crank case, means for securing the engine halves together with the spaced crank shafts of each pair of crank cases aligned with each other, a coupling connecting each pair of aligned crank shafts, and a transverse shaft having each end connected by gears to the crank shafts disposed between the engine halves to synchronize all four crank shafts.

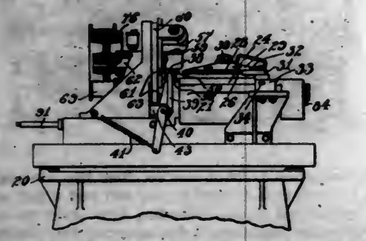
1,749,579. VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward Inc., a Corporation of Delaware. Filed Jan. 23, 1928. Serial No. 248,829. 15 Claims. (Cl. 194—72.)



1. In combination with a vending machine, a coin-controlled mechanism comprising, a vertically arranged pocket for receiving the coin, yielding means for holding

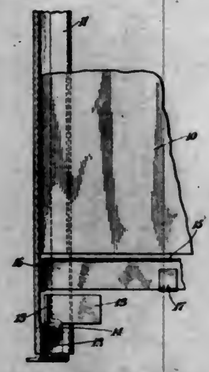
the coin in the pocket, said pocket having a slot in one side permitting access to the coin, a vertically reciprocable slide, a handle fastened to the slide, a member pivotally mounted on the slide and extending downwardly, a bell crank lever one arm of which is connected with the vending machine, said pivoted member having a part adapted to engage and actuate the other arm of the bell crank lever, and a yieldable deflector over which the part of the pivoted member is normally positioned, downward movement of the slide causing said part to travel on the deflector and be deflected thereby to move the pivoted member into position to contact the coin in the pocket, further downward movement of the slide causing said part to force aside the yieldable deflector and engage and actuate the bell crank lever.

1,749,580. GEAR-TOOTH-CHAMFERING MACHINE. CHARLES E. HAMILTON, Richmond, Ind., assignor to Automotive Gear Works, Inc., Richmond, Ind., a Corporation of Delaware. Filed Apr. 14, 1928. Serial No. 269,882. 6 Claims. (Cl. 90—15.)



1. A machine for chamfering gear teeth, comprising a holder for the gear to be operated upon, a cutter-shaft-carrier adjustable about two axes, each at an angle to the axis of the holder, a cutter shaft mounted for rotation in said carrier about an axis at an acute angle to the plane of such gear when so held and at an angle to the axis of the holder, means for rotating the cutter shaft independent of rotation of such gear, and means for causing a relative reciprocation between the gear holder and cutter shaft laterally of the axes of the cutter shaft and such gear.

1,749,581. CONTAINER. GEORGE D. HAUSER, Utica, N. Y., assignor to Utica Products, Inc., Utica, N. Y., a Corporation of New York. Filed Jan. 8, 1929. Serial No. 331,064. 9 Claims. (Cl. 220—1.)



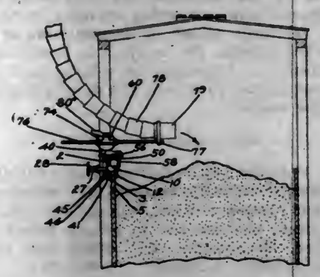
1. A device of the character described comprising side plates and angle strips having interlocking turned back edges, feet having flanges fitting into the spaces formed by the turned back edges of the angle strips, each foot having an inwardly offset portion arranged within said side plates and a bottom member resting on said offset portion.

1,749,582. METHOD OF IMPROVING CIGARETTES, CIGARS, AND PIPE CARTRIDGES. NEVIL MONROE HOPKINS, New York, N. Y., assignor of twenty-five per cent to Tobacco Perfecting Corporation, a Corporation of New York, and twelve per cent to Rene Georges Le Brosi, Port Washington, N. Y. Filed Dec. 18, 1924. Serial No. 756,732. 6 Claims. (Cl. 131—55.)



1. A method of treating a smoker's article to graduate the strength of the tobacco therein, which comprises passing lengthwise through the article a stream of a substance adapted to vary the flavor content of the tobacco, and regulating the action of the substance to produce a gradual variation in flavor content from one end to the other of the article without consuming the article.

1,749,583. GRAIN-SPOUT HOLDER. ROBERT R. HOWELL, deceased, Minneapolis, Minn., by Benjamin R. Howell and Margaret Stokes, Minneapolis, Minn., and John R. Howell, Madison, Wis., executors. Filed July 11, 1927. Serial No. 205,021. 4 Claims. (Cl. 248—30.)

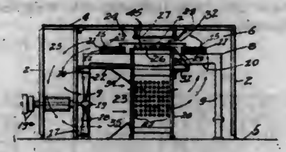


1. A grain spout adjuster comprising a base having a worm gear thereon facing upwardly, a head rotatably mounted upon the base, and having a crank-operable pinion carried by the head and engaging and meshing with the gear from above, and a spout rod held by said head, the arrangement being such that when the hands respectively hold the rod, and operate the pinion, both hands move with the rotatably mounted head.

1,749,584. TENTERING MACHINE. ALPHEUS O. HURXTHAL, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 18, 1928. Serial No. 286,320. 12 Claims. (Cl. 26—60.)

1. In a tentering machine, the combination of a casing, having a restricted passageway formed by a pair of walls

disposed relatively close together and extending longitudinally of said casing, means for supporting a strip of



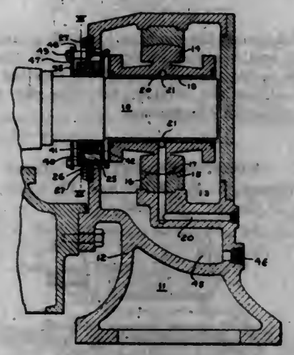
material in said passageway, and means for forcing air through said passageway in a direction transversely of the strip of material.

1,749,585. MUSICAL-INSTRUMENT CASE. WEBSTER E. JANSSEN, New York, N. Y. Filed May 1, 1928. Serial No. 274,204. 14 Claims. (Cl. 84—177.)



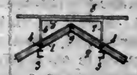
1. A musical instrument case comprising a playing action compartment having an opening toward the front, and a writing-desk top foldable and slidingly pivoted within the case to cover said playing action compartment but exposing said opening when said desk-top is folded.

1,749,586. OIL-SEALING RING FOR TURBINE BEARINGS. JOSIAH F. JOHNSON, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 28, 1924. Serial No. 702,545. 6 Claims. (Cl. 286—10.)



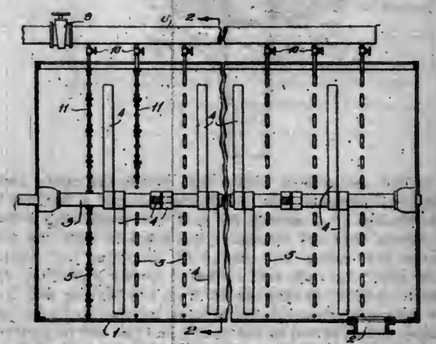
3. A sealing ring for rotatable shafts adapted to be secured to a bearing housing and having its inner periphery grooved to form a plurality of small chambers separated by ridges adapted to approach the shaft with a close clearance, means for draining said chambers, and means for maintaining a liquid seal between the chambers.

1,749,587. DUMPING CAR BODY OR CAR TOP. THÖGER GRÖNBORG JUNGERSEN, Lyngby, near Copenhagen, Denmark. Filed Mar. 21, 1927, Serial No. 177,127, and in Denmark May 31, 1926. 4 Claims. (Cl. 105—268.)



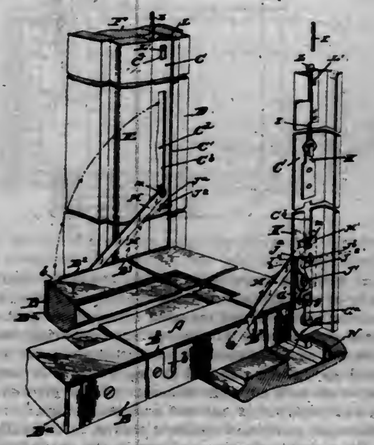
1. The combination in a dumping car of a frame member, a body member, rollers carried by one of said members, and inclined intersecting trackways carried by the other of said members and having upward extensions beyond their point of intersection, said trackways coacting with said rollers to permit the dumping movement of said body.

1,749,588. METHOD OF AND APPARATUS FOR CRYSTALLIZATION. ERNST W. KOPKE, New York, N. Y., assignor to Frank L. Allen, Montclair, N. J. Filed Jan. 19, 1927. Serial No. 161,981. 6 Claims. (Cl. 127—58.)



4. The method of treating massecuites which consists in establishing a plurality of similar temperature modifying effects in a series of planes, and passing the massecuites through substantially the entire area of said planes, to produce a uniform temperature modification of the entire mass.

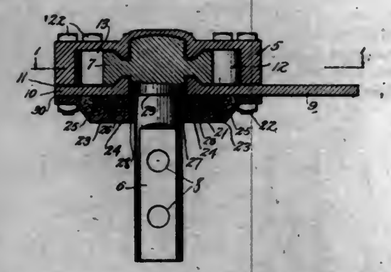
1,749,589. VERTICALLY-SLIDABLE INWARDLY-SWINGING WINDOW. JOHN G. KRAMER, Detroit, Mich., assignor, by mesne assignments, to Car-Kra Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 28, 1928. Serial No. 288,955. 2 Claims. (Cl. 20—40.)



1. In a device of the character described, a pair of vertically movable channel members; a swinging sash frame

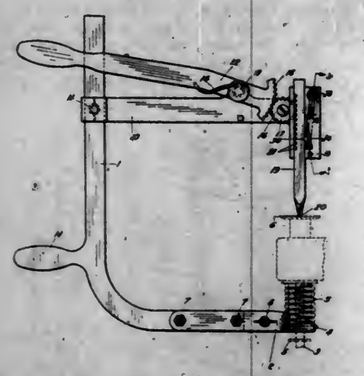
detachably pivoted to the channel members, whereby the sash frame may be adjusted at an angle to the vertically movable channel members for cleaning, or removed for repairs; means for automatically locking the swinging sash frame in alignment with the channel members for vertical adjustment; a pair of link bars pivoted at one end to the sash frame and fitted with adjustable heads slidable in slots formed in the walls of the channel members,—said heads when adjusted being adapted to release the links from the channel members for the removal of the sash frame.

1,749,590. SHOCK ABSORBER. MARIUS C. KRARUP, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,212. 5 Claims. (Cl. 286—10.)



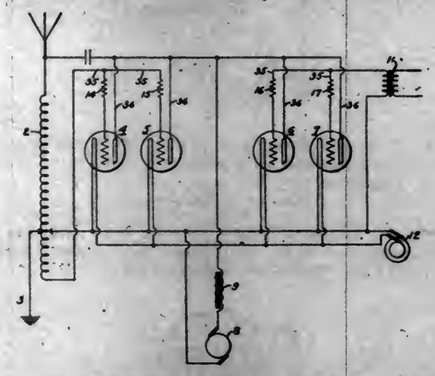
1. The combination with a fluid containing casing and a relatively movable hub projecting through a bearing on said casing, of a packing for said hub comprising a body of plastic wax-like substance non-miscible with the fluid within the casing, and means for confining said plastic body about the hub, said confining means embodying concentric annular flanges spaced from the bearing and from one another disposed in overlapping relative positions, said flanges being carried by the casing and the hub respectively and one of said flanges being movable within the body of plastic material without displacing said material.

1,749,591. SPRING COMPRESSOR. RAY B. LAW and JOSEPHUS A. CLAPPER, Muscatine, Iowa. Filed Dec. 16, 1927. Serial No. 240,470. 14 Claims. (Cl. 29—86.3.)



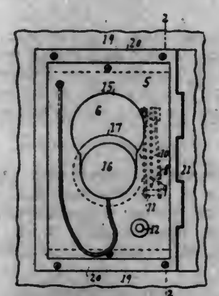
1. In a spring compressor of the character specified, a frame to engage the spring to be compressed and an element having teeth thereon and movable with respect to the frame to cause compression of the spring; operating means to actuate the movable element, comprising a gear pivotally mounted upon the frame and having its teeth in mesh with the teeth on said movable element, a lever pivoted on the frame and carrying at one end a segmental gear to engage the aforesaid gear, and resilient means to normally withdraw the movable element and retain the parts in position ready for use.

1,749,592. VACUUM-TUBE SYSTEM. DONALD G. LITTLE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 25, 1924. Serial No. 688,388. 3 Claims. (Cl. 250—17.)



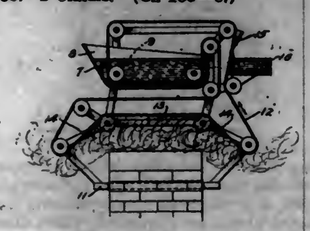
1. In a radio system, a plurality of modulator tubes, a connection between the cathodes of said tubes, a common connection between the anodes of said tubes, a source of modulating potential, means for connecting the input circuits of said tubes in parallel to said source, and a plurality of high-resistance devices respectively individual to said tubes and respectively connected between the grids thereof and their common connection to said source of modulating potential.

1,749,593. TELEPHONE. LOUIS J. LOEFFLER, Stapleton, N. Y. Filed Jan. 28, 1929. Serial No. 335,466. 3 Claims. (Cl. 179—100.)



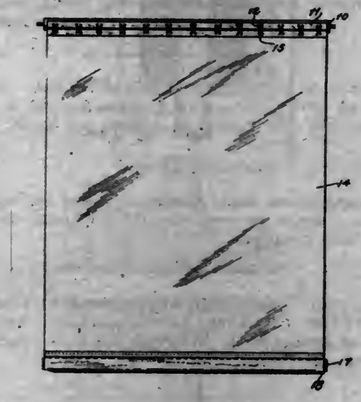
1. In a telephone, the combination with a casing having a transmitter and a spring switch, of a slot located in the front of the casing for coaction with a receiver to open the switch by sliding the receiver into the slot or close the switch by removing the receiver.

1,749,594. SMOKE SEPARATOR. HARRY C. LYONS, Mount Vernon, N. Y. Filed Apr. 17, 1928. Serial No. 270,638. 2 Claims. (Cl. 183—8.)



1. In a smoke separator, a framework extending above the substantially vertical outlet of a chimney, an endless belt carried by said framework, said endless belt having a substantially horizontal portion just above the vertical chimney outlet, a tank for containing liquid carried by said framework above the horizontal portion of said endless belt, and means for guiding said endless belt through a body of liquid in said tank.

1,749,595. SHADE OR CURTAIN FASTENER. DORA MARK, Neponsit, Long Island, N. Y. Filed May 14, 1928. Serial No. 277,592. 1 Claim. (Cl. 156—25.)



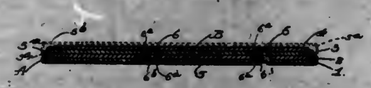
A shade or curtain fastener comprising, a band, adapted to be glued to a roller or pole in the direction of its longitudinal axis, a plurality of wire eyes, fastening means passed through the upper side loops of said eyes for securing the same to said band, a plurality of wire hooks and fastening means passed through said lower side loops of said hooks to secure the same to a shade near and parallel to the upper edge thereof, said hooks adapted to engage said eyes for removably hanging a shade or curtain from the roller or pole.

1,749,596. SOLE PLATE FOR LAUNDRY IRONS. MICHAEL W. MCARDLE, Chicago, Ill. Filed Feb. 2, 1927. Serial No. 165,269. 4 Claims. (Cl. 68—26.)



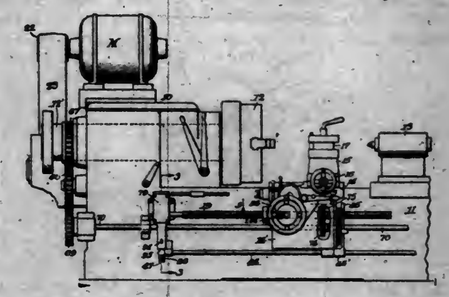
1. A composite sole plate for laundry irons comprising a peripherally flanged sheet metal shell and a metal filler for the same, the shell defining a cavity housing the filler, said flange extending inwardly at its upper edge into locking engagement with the filler to permanently secure these elements together.

1,749,597. SOLE PLATE FOR LAUNDRY IRONS. MICHAEL W. MCARDLE, Chicago, Ill. Original application filed Feb. 2, 1927, Serial No. 165,269. Divided and this application filed Feb. 5, 1927. Serial No. 166,135. 8 Claims. (Cl. 68—26.)



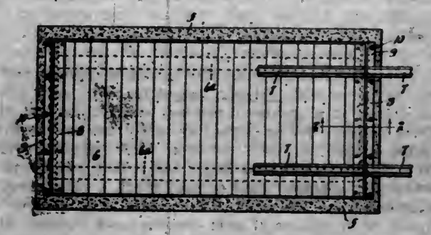
1. A sole plate for a laundry iron comprising a peripherally flanged sheet metal shell and a metal filler for the same including a plate having its peripheral edge substantially perpendicular to its faces and its horizontal dimensions less than those of the inner surface of the bottom web of the shell, the flange of the shell extending inwardly in inclined position into contact with the upper corner of the periphery of the plate for retaining the same symmetrically positioned in the shell and enclosing the air spaces in the shell around the periphery of the filler.

1,749,598. LEAD-SCREW-CONTROLLING DEVICE FOR LATHES. EDWARD F. MCNUTT, Youngstown, Ohio, assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Dec. 20, 1928. Serial No. 327,211. 8 Claims. (Cl. 82—22.)



1. In a lead screw controlling device for lathes, the combination with a lathe bed, a tool carriage mounted to reciprocate on said bed, a lead screw, a nut on said carriage cooperating with said lead screw, means, including a clutch, for driving said lead screw, and carriage feed mechanism geared to said nut, of means for arresting the rotation of said lead screw at a predetermined point comprising a notched disc rotated by said lead screw, a spring-pressed locking pin cooperating with the notches of said disc, means, including a lever, for shifting the clutch of said lead screw driving means, and means actuated by said lever serving to retract said locking pin during the clutch-engaging movement of said lever and to release said locking pin during the clutch-disengaging movement of said lever.

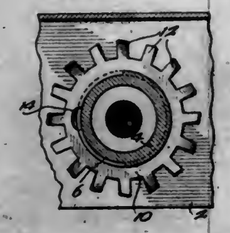
1,749,599. SCALE-PLATFORM CLEARER. LUKE W. NORTHFIELD, WESLEY A. NORTHFIELD, and GLENN H. NORTHFIELD, Minneapolis, Minn. Filed Dec. 19, 1927. Serial No. 241,244. 3 Claims. (Cl. 265—71.)



1. A platform scale for weighing matter in vehicles having in combination, a frame over which vehicles are adapted to pass, said frame having a rectangular opening therein, a rigid platform shaped similarly to and disposed in said opening and of smaller dimensions than said opening and constructed and arranged to have vehicles move thereon from said frame and to support said vehicles, the top of said platform being substantially flush with the top of said frame, a metal member secured to one of said parts and having a horizontal side with the thin edge projecting toward the other part, said other part having a metal member secured thereto having a vertical surface opposite said edge whereby in the relative

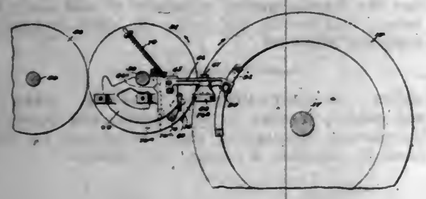
movement of said frame and platform caused by vehicles moving thereon any obstruction caught between said metal members will be cut or crushed and will drop below said edge whereby the space between said metal members will be cleared.

1,749,600. LOCK NUT. CARL G. OLSON, Chicago, Ill., assignor to Shakeproof Lock Washer Company, Chicago, Ill., a Corporation of Delaware. Filed July 11, 1928. Serial No. 291,739. 8 Claims. (Cl. 151—37.)



1. A lock nut comprising an annular body portion of flat stock, and a plurality of marginal twisted teeth for lockingly engaging the work, said body portion being adapted for application upon the threaded portion of an element to be secured.

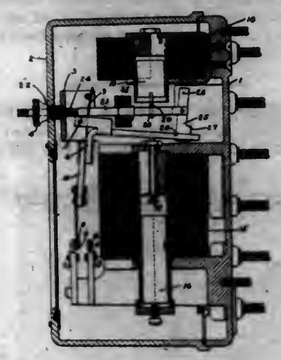
1,749,601. GRIPPING DEVICE. HERBERT W. ORNDOFF, New Orleans, La., assignor to The E. V. Benjamin Co., Inc., New Orleans, La., a Corporation of Louisiana. Filed June 18, 1928. Serial No. 286,886. 6 Claims. (Cl. 101—409.)



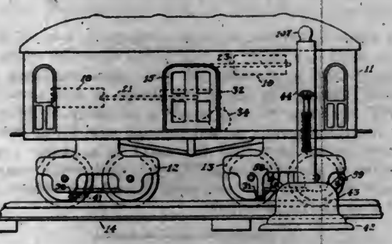
1. In a sheet handling machine having a cylinder and a receiving drum with driving means therefor, said drum being driven at a greater rotational speed than said cylinder, a gripping device carried by said drum and adapted to seize a sheet on said cylinder, said gripping device having a shaft, a gripping finger and a rock lever with a cam-engaging member fixed to said shaft, a cam lever, a cam mounted on said cam lever to rock into and out of the path of movement of said cam-engaging member, and means on the cylinder cooperating with said cam lever to rock said cam lever and cam to a position in which the cam-engaging member is moved by said cam to present said finger for seizing a sheet on the cylinder.

1,749,602. ELECTRICAL PROTECTIVE DEVICE. ALFRED J. A. PETERSON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 18, 1924. Serial No. 693,729. 8 Claims. (Cl. 200—106.)

1. In a relay, a pair of relatively movable contact members, a contact-supporting member, means for actuating the contact-supporting member to an advanced position, a latch member for automatically retaining the supporting member in its advanced position, a stop normally engaging the latch member to render the same inactive and means for removing the stop from the path of said latch member.

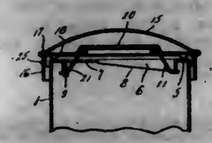


1,749,603. MECHANISM FOR THE AUTOMATIC TRANSFER OF MAIL AND BAGGAGE. CECIL N. PHELPS, Orange, N. J. Filed Sept. 27, 1924. Serial No. 740,153. 20 Claims. (Cl. 258—4.)



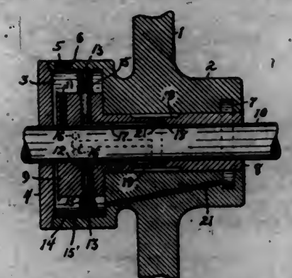
1. In combination, a track, a railway car thereon having a sliding side door, an armature connected to said door, a solenoid in engagement with said armature for effecting the automatic opening of the door at a given position, a machine located near the track on which the car travels and provided with means for holding a mail bag or other desired object and means for throwing said object into the car and electrical means for releasing said throwing means and adapted to be automatically operated by the movement of the car to cause the mail bag to be transferred to the car at the proper time.

1,749,604. SEALING GASKET FOR NECK AND CLOSURE STRUCTURES. JAMES S. REID, Cleveland, Ohio, assignor to The Eaton Axle and Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 19, 1928. Serial No. 327,053. 5 Claims. (Cl. 220—46.)



2. In combination with a tubular neck and a detachable bayonet-joint closure therefor, of a gasket for sealing cooperation with both said neck and said closure; said neck having a top transverse gasket-engaging wall and cam portions adjacent thereto; said closure having a transverse gasket-engaging wall and a surrounding depending skirt portion and also having resilient fingers for locking engagement with the cam portions of said neck; and said sealing gasket having an annular sealing portion upwardly arched in cross-section for cooperation with the transverse wall of said closure and annular sealing portion downwardly arched in cross-section for cooperation with the transverse wall of said neck and also having an inherently resilient outer portion of greater diameter normally than that of said closure skirt portion so that said gasket can be assembled with said closure, within the skirt portion thereof, only by forcing or jamming said gasket within said skirt portion, said inherently resilient gasket outer portion springing inwardly to permit such assembly.

1,749,605. LOOSE-PULLEY OILER. RAY E. RIBB and FRED R. KOVERMAN, Fort Wayne, Ind. Filed June 18, 1928. Serial No. 286,096. 3 Claims. (Cl. 308—109.)



1. An appliance of the class described, consisting of a pulley having in one end of its hub a closed chamber, and at a point spaced from its opposite end an internal annular recess, there being also a return duct connecting said recess and chamber; a shaft; a bushing fixedly mounted on said shaft and upon which bushing said pulley is loosely mounted, said bushing having a head disposed within said chamber, there being a series of radially disposed guide openings in said head, and also adjacent each guide opening an oil inlet opening, said bushing having also oil grooves exposed to the bearing surface of said hub, and ducts and corresponding ports connecting said oil inlet openings and said oil grooves; and a spring pressed rake member positioned in each guide opening, which rake bears outwardly against the wall of said chamber.

1,749,606. PROCESS FOR DETERMINING MOISTURE IN AGGREGATE. ROBERT E. ROBB, Evansville, Ind. Filed Aug. 17, 1928. Serial No. 300,235. 7 Claims. (Cl. 23—230.)

7. The process of determining the moisture content of aggregate which comprises introducing a measured quantity of aggregate into a measured quantity of liquid to establish a standard indication, then introducing a corresponding quantity of moist aggregate to be tested into such measured quantity of liquid, and determining the displacement of said liquid with relation to the standard indication.

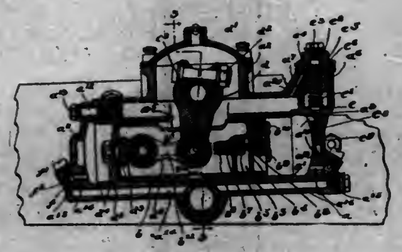
1,749,607. METHOD OF DISPERSING RECLAIMED RUBBERS. REED P. ROSE, Jackson Heights, and HAROLD E. CUDE, Floral Park, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Aug. 20, 1927. Serial No. 214,451. 1 Claim. (Cl. 134—1.)

A method of manufacturing aqueous dispersions of reclaimed rubber which comprises softening reclaimed rubber with spindle oil, plasticising the softened rubber, subjecting said plasticised softened rubber to mechanical action in water containing a water soluble rosin soap until a smooth dispersion is obtained.

1,749,608. METHOD OF DISPERSING RUBBER. REED P. ROSE, Jackson Heights, and HAROLD E. CUDE, Floral Park, N. Y., assignors to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Aug. 20, 1927. Serial No. 214,452. 2 Claims. (Cl. 134—1.)

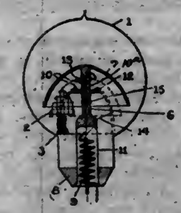
1. A method of manufacturing aqueous dispersions of rubber which comprises forming an emulsion of spindle oil in water containing alkaline sulphonated castor oil, and mixing reclaimed rubber with said emulsion until the rubber becomes dispersed therein.

1,749,609. SHOCK ABSORBER. FREDERICK HENRY ROYCE, West Wittering, near Chichester, England, assignor to Rolls-Royce Limited, Derby, England. Filed Dec. 24, 1926, Serial No. 156,966, and in Great Britain Dec. 31, 1925. 8 Claims. (Cl. 188—88.)



1. A shock absorber comprising a hollow double-ended piston in a closed cylinder with a liquid compression chamber at each end of the cylinder, two conduits connecting the compression chambers each controlled by a one-way valve admitting liquid to the chambers respectively, a reservoir to contain a quantity of the compression liquid formed on the side of and extending to the bottom of, the cylinder, a gap or opening in the wall between the cylinder and the reservoir, two conduits from the bottom of such reservoir to the compression chambers respectively, each provided with a one-way valve admitting liquid to the compression chamber with which it is connected, and mechanism including a shaft, situate without, and in a plane passing through the centre of, and normal to the axis of the cylinder, rocking in bearings attached to the cylinder, a suitably shaped hole in the wall of the cylinder nearest to the shaft and evenly disposed on each side of the said plane, a like suitably shaped hole in the wall of the piston, a lever secured to the said shaft projecting through the said holes to the centre of the piston, a link hinged to the free end of such lever and to one end of the piston, another lever projected from the said shaft without the cylinder, and operatively connected to the "shocked" member, whereby movement of the "shocked" member causes the piston to move in one direction or the other.

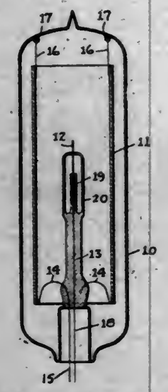
1,749,610. GASEOUS CONDUCTION LAMP. OTTO SCHALLER, Berlin-Sudende, and FRITZ SCHRÖTER, Berlin-Schmargendorf, Germany, assignors to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed July 22, 1920. Serial No. 398,273. 8 Claims. (Cl. 176—122.)



1. In a device of the class described, in combination, a vessel having a gaseous content at relatively low pressure,

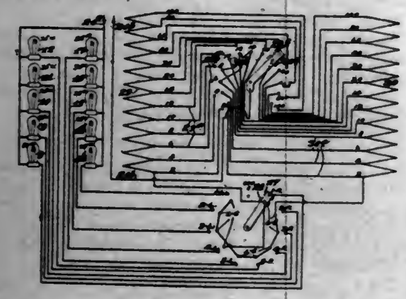
a pair of electrodes mounted within said vessel one of which is subject to deterioration by the discharge therefrom of electrode particles, a reservoir containing metal of which said one electrode is formed, and means for vaporizing the metal within said reservoir to replenish said electrode comprising a current-limiting resistance in circuit with one of said electrodes and thermally related to said reservoir.

1,749,611. METHOD OF RECTIFYING ALTERNATING CURRENTS. FRITZ SCHRÖTER, Berlin, Germany, assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Mar. 16, 1921, Serial No. 452,825, and in Germany Nov. 3, 1919. 2 Claims. (Cl. 250—27.5.)



1. In rectifying tubes of the gaseous conduction type having a metallic anode and a cathode, the method of preventing the permanent absorption of the gaseous content which consists in causing the metallic particles emanated from the anode to impinge upon the surface of the cathode whereby such particles are raised in temperature and are caused to emit gases absorbed thereby.

1,749,612. EYE-TESTING APPARATUS. CHARLIE B. SCOTT, St. Louis, Mo., assignor to M. E. Green Manufacturing Co., St. Louis, Mo., a Corporation of Missouri. Filed June 13, 1927. Serial No. 198,562. 3 Claims. (Cl. 175—312.)



1. In combination with a source of current supply, leads to and from the source of supply, a series of translating devices electrically connected with one of the leads in multiple with each other, a series of independent terminal-contacts for the translating devices, a resistance permanently in series with the other lead, a series of contacts for the resistance, there being one resistance contact in permanent pair-relation with each of the respective terminal-contacts, and a shiftable switch-member adapted for electrically connecting the respective pairs of terminal and resistance contacts for selectively energizing the translating devices.

1,749,613. AMMONIUM-NITRATE EXPLOSIVE AND PROCESS OF MAKING IT. WALTER O. SNELLING, Allentown, and JOSEPH A. WYLER, South Whitehall Township, Lehigh County, Pa., assignors to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Oct. 14, 1922. Serial No. 594,584. 6 Claims. (Cl. 52—11.)

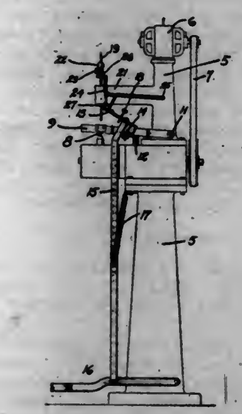
1. The process which comprises heating together a mixture containing ammonium nitrate, water, lead, and nitrated toluene at a temperature in excess of 100° C. until a chemical reaction occurs characterized by a pronounced darkening of the mixture.

1,749,614. TONGS FOR SUGAR, CANDY, ETC. GUNHILDE M. SORENSEN, Weehawken, N. J. Filed Apr. 12, 1928. Serial No. 269,527. 1 Claim. (Cl. 294—115.)



A gripping device for small articles comprising a hollow body provided with an enlargement at one end and a triangular shaped hollow head at the other end, claws pivoted in the head, a push pin provided with a disc to operate the claws, and a spring surrounding the pin and within the body to hold the claws closed.

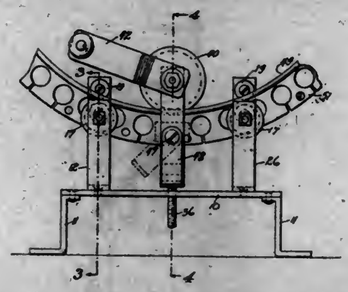
1,749,615. DEVICE FOR APPLYING BRAKE-BAND LININGS. ALBERT M. WALCH, Minneapolis, Minn. Filed July 3, 1924. Serial No. 724,159. 11 Claims. (Cl. 77—5.)



1. A device of the class described including a vertically arranged drill, a swingable work support yieldably held in raised position above the drill, a work clamp pivoted to said work support to engage work positioned over the drill and upon the support, and a manually operable connection pivoted to said pivoted clamp in such manner that upon movement of the connection in one direction the clamp is first brought to clamping position against the work, and continued movement holds the clamp and lowers the work during drilling.

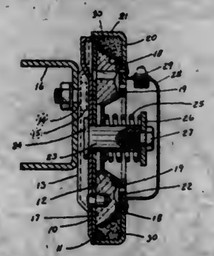
1,749,616. BENDING DEVICE. MONTE W. WALKUP, Chicago, Ill. Filed Aug. 26, 1927. Serial No. 215,576. 2 Claims. (Cl. 153—56.)

1. A device of the character described, including a base, U-members secured thereto, pairs of rollers secured to the corresponding vertical legs of said U-members, a single roller secured to the other leg of said U-members, and a



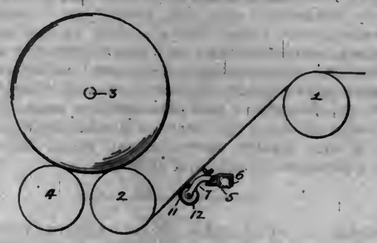
knurled roller supported from said base between said U-members and having its lowermost peripheral point below the interspace of said pairs of rollers.

1,749,617. STABILIZER FOR VEHICLES. HENRY E. WEBER, Indianapolis, Ind., assignor to Hassler Manufacturing Co., Inc., Indianapolis, Ind., a Corporation. Filed Oct. 3, 1927. Serial No. 223,600. 4 Claims. (Cl. 188—130.)



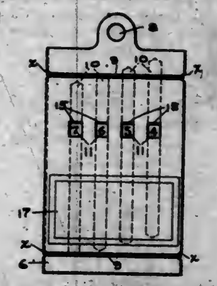
1. A stabilizer comprising a pair of friction elements, a sheet metal cover secured to one of said elements, and a sheet metal supporting plate secured to the other element, said plate being provided with a recess formed therein for receiving the head of a securing bolt and preventing the rotation thereof.

1,749,618. SEPARATOR FOR SLITTING MACHINES. JOSEPH ATWOOD WHITE, Melrose Park, Pa., assignor to The Moore & White Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 4, 1928. Serial No. 275,121. 5 Claims. (Cl. 164—65.)



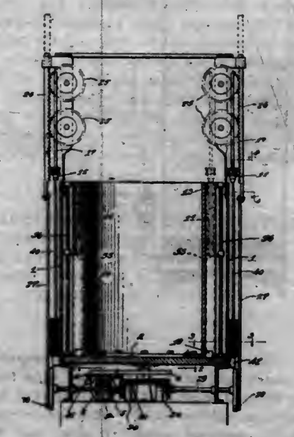
1. The combination in means for separating adjoining strips of paper, while the said paper is moving from one support to another, of two supports for the paper; means for moving the paper; and means located between the supports for alternately forcing the edges of the two adjoining strips out of alignment one with the other as the paper is moved from one support to the other.

1,749,619. RECORDING AND ADVERTISING DEVICE. FRED WIDOR, Omaha, Nebr. Filed Mar. 22, 1929. Serial No. 349,210. 7 Claims. (Cl. 40—65.)



1. In a device for the purposes described, a leaf having a window, a second leaf pressed against the first leaf and provided with slots, a plurality of flexible approximately parallel strips each bearing numerals on its opposed sides and disposed on the second leaf with parts thereof engaging in said slots to exhibit a selected numeral on the second leaf and to exhibit a corresponding numeral at said window.

1,749,620. APPARATUS FOR ASSEMBLING SHIMS. IRVIN B. WINSLOW, Detroit, Mich. Filed Dec. 19, 1927. Serial No. 241,057. 17 Claims. (Cl. 29—84.)

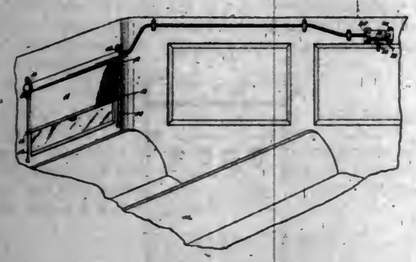


1. A shim assembling machine, comprising in combination means for holding a plurality of magazines each containing shims of a given thickness, means for successively removing shims from the magazines and for assembling shims into groups each consisting of a predetermined number of shims of different thickness and in a predetermined arrangement as regards thickness.

1,749,621. REAR-CURTAIN-OPERATOR DEVICE. GEORGE J. WRIGHT, Brookline, Mass. Filed Oct. 25, 1929. Serial No. 402,346. 8 Claims. (Cl. 156—28.)

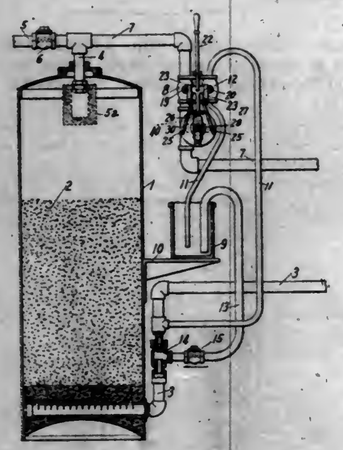
1. An automobile rear-curtain operating-device comprising in combination a rear window curtain roller, a flexible drive shaft, a coupling between one end of said shaft and

said roller, a threaded stud rotatable with said shaft, a nut having threaded engagement with said stud, means



for preventing rotary movement of said nut, adjustable means for limiting the longitudinal movement of said nut and means for rotating said shaft.

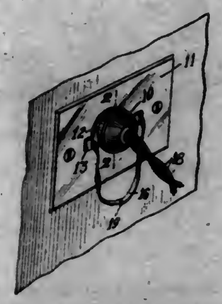
1,749,622. WATER-SOFTENING APPARATUS. CLARENCE B. YOUNT, near Dayton, Ohio. Filed Mar. 8, 1928. Serial No. 259,983. 15 Claims. (Cl. 210—24.)



1. In a water softening apparatus comprising a container for water softening material, a pipe for supplying hard water to said container, a service pipe and a drain pipe leading from said container, and a valve in said drain pipe, manually operated means to open said drain valve, a motor adapted to be set in operation by the opening of said drain valve, means controlled by said motor to automatically close said drain valve after a predetermined interval, and means controlled by the opening and closing of said drain valve to supply regenerating solution and wash water to said container.

1,749,623. PLUG ATTACHMENT. ALBERT G. ZINMAN, Brooklyn, N. Y. Filed Feb. 14, 1929. Serial No. 339,778. 2 Claims. (Cl. 173—361.)

1. An attachment for electric plugs, comprising a disk, having a groove centrally thereof, an aperture on each side of said groove for the passage therethrough of the prongs of a plug, the disk being adapted to be positioned adjacent the base of the plug, an aperture at each extremity of said groove, and a ribbon positioned in said groove and having its ends passed through the apertures in said groove, the said ends being tied or knotted,



whereby the application of force to said ribbon is transmitted to the surface of the disk and to the plug, whereby the same may be displaced from a wall socket.

1,749,624. BRAKE MECHANISM. JONAS W. BATSON, Spartanburg, S. C. Filed Feb. 13, 1928. Serial No. 254,017. 2 Claims. (Cl. 188—78.)

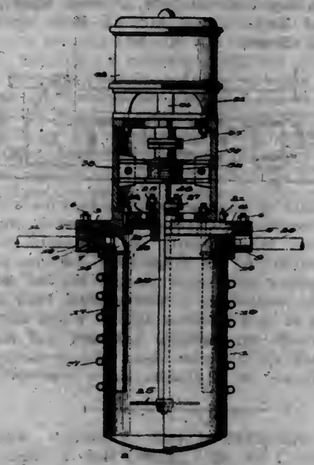


1. A brake mechanism for motor vehicles and the like, comprising a brake drum, a plurality of brake shoes of segmental form mounted within said drum for cooperation with the inner peripheral wall thereof, means pivoting said brake shoes at one end for outward swinging movements to operative positions, a cam member mounted for rocking movements centrally of said drum, means operatively connecting said cam member to a usual brake operating lever, angled levers pivoted at one end in interposed relation between said brake shoes and said cam member for transmitting motion from the latter to the former, rollers carried by said levers for rolling contact with the elements of said cam member, means for automatically returning the parts to normal positions at the end of each braking operation, and means for checking free movements of said cam member.

1,749,625. APPARATUS FOR CARBONATING LIQUIDS. ALBERT E. BECKER, Ogden, Utah. Filed June 15, 1929. Serial No. 371,198. 3 Claims. (Cl. 261—93.)

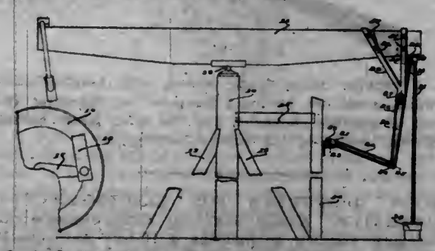
1. In apparatus for carbonating liquids a container having its lower end closed, a plate closing the upper end of the container, a ring secured to the lower face of the plate clamping the upper end of the container therebetween and having inlet and outlet openings formed in it,

a shaft extending through the plate into the container provided with an agitator, means carried by the plate for



rotating said shaft, means for supplying liquid and gas to the inlet opening of the ring and delivery means connected to the outlet opening of the ring.

1,749,626. ROD GUIDE. CHARLES HENRY BROWN, Breckenridge, Tex. Filed July 5, 1928. Serial No. 290,620. 2 Claims. (Cl. 74—5.)



1. A device of the character described comprising a walking beam, a bracket depending from one end of said beam, a lever pivoted intermediate the ends thereof on the free end of said bracket, a post, a link having pivotal connection with the post and with one end of said lever, the other end of the lever being offset from the body of the lever, and a reciprocating rod having one end pivotally connected with the offset end of the lever, the greater portion of the lever depending below the pivotal point of said lever with the bracket.

1,749,627. SPRINKLER HEAD. HJALMAR G. CARLSON, Worcester, Mass., assignor to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 7, 1928. Serial No. 252,596. 5 Claims. (Cl. 169—40.)



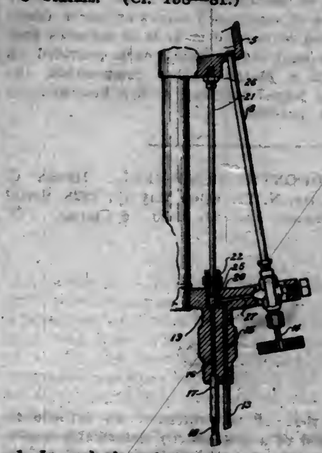
1. In a leverage system for a sprinkler head, the combination with a lever, a strut and a fusible link connected together to form a triangle to hold the system in place, normally preventing the flow of water, the said lever and strut of the leverage system having projections thereon arranged and positioned to engage a stationary part of the sprinkler head and force the lever and strut to assume a position at a considerable distance from the axis of the sprinkler head, for assisting in discharging them when the leverage system is broken by the melting of the fusible link.

1,749,628. TOWEL CABINET. JOHN R. CLOVER, Enid, Okla. Filed Jan. 23, 1929. Serial No. 334,470. 1 Claim. (Cl. 312—38.)



In a towel cabinet structure of the class described, a cabinet comprising an upper compartment adapted to contain a roll of unused toweling, and a lower receiving compartment adapted to receive and conceal the used end portion of the toweling, and a feed roller assembly in said cabinet and associated with said compartments and comprising a relatively fixed and positive corrugated operating roller, and a pair of complemental corrugated loop-forming rollers between which the toweling is adapted to be fed, all of said rollers being operatively connected together for simultaneous and positive rotation, whereby to unwind the toweling from the supply roll, to form and maintain a substantially uniform loop, and to feed the used end portion of the towel into the receiving compartment.

1,749,629. APPARATUS FOR BURNING FUEL. WILLIAM C. COLEMAN, Wichita, Kans., assignor to Coleman Lamp and Stove Co., Wichita, Kans., a Corporation of Kansas. Filed Dec. 30, 1927. Serial No. 243,656. 3 Claims. (Cl. 158—81.)



1. In a device of the class described, a font having a liquid space and an air space above the same to con-

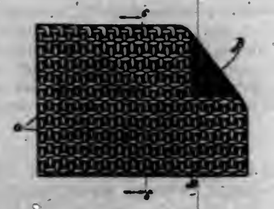
tain liquid fuel under pressure, a fitting in the wall of the font having a main port and two branch ports, one of which admits air to the main port and the other of which admits liquid to the main port, an air tube carried by the fitting, a mixing chamber at the top of the air tube, a burner carried by the mixing chamber, a valved generator communicating the main port with the mixing chamber, and a thermostatic valve for the air branch port responsive to heat from the burner to close the air port branch only under action of heat from the burner.

1,749,630. KEY HOLDER. EDWIN B. DONALDSON, Washington, D. C. Filed July 5, 1928. Serial No. 290,629. 3 Claims. (Cl. 59—97.)



1. A key holder comprising a plate provided with an opening, a spring tongue carried by the plate and overlying a face thereof, said tongue having a free end portion provided with an arm disposed toward the plate and directed through the opening, and a head engageable with the free end portion of the arm at the side of the plate remote from the tongue.

1,749,631. BRAKE LINING. RICHARD J. EVANS, Huntington, Ind. Filed Dec. 8, 1928. Serial No. 324,716. 3 Claims. (Cl. 188—259.)



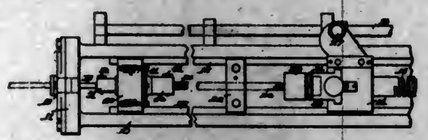
2. As an article of manufacture a brake lining strip composed of a series of superposed layers of woven fabric made of cords formed of twisted strands of asbestos fiber and fine wire, and said layers being each provided on one side only with a plastic rubber composition, the several layers being joined together with a homogeneous mass by heat and pressure.

1,749,632. ORTHODONTIC DUMB-BELL. HENRY C. FERRIS, Garden City, N. Y. Filed May 11, 1928, Serial No. 276,959. Renewed Jan. 21, 1930. 6 Claims. (Cl. 128—359.)



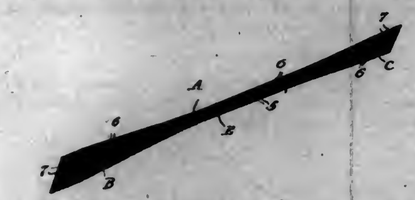
2. As a new article of manufacture, an orthodontic dumb-bell constructed of a temporarily deformable elastic material and comprising a cylindrical shank and an enlarged integral spherical knob at one end thereof.

1,749,633. MACHINE FOR BROACHING SPIRALS. ALBERT FORBERG, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a Corporation of Maine. Filed Jan. 27, 1928. Serial No. 250,056. 5 Claims. (Cl. 90—33.)



1. In a broaching machine, means to hold the work from rotation, a broach, a master screw, means to cause said screw to move longitudinally and to rotate in predetermined relation to its longitudinal movement, and means connecting said screw to said broach, said connecting means comprising a sliding cross head movable along guides in said machine and in which said screw and said broach have aligned bearings, and planetary gears mounted in said cross head and connecting said screw and broach in a definite speed relation.

1,749,634. NECKTIE-LINING FABRIC. EDGAR K. FRANK, New York, N. Y. Filed Mar. 9, 1929. Serial No. 345,742. 14 Claims. (Cl. 139—426.)



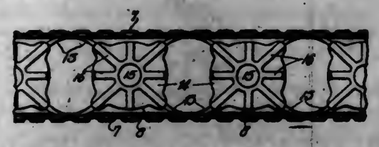
1. A necktie lining fabric woven with longitudinally extending areas one having a warp of one character and a weft of another character and the other areas having warps and wefts of the same character.

1,749,635. DIAPHRAGM FOR ELECTROACOUSTIC APPARATUS. ERWIN GERLACH, Berlin-Siemensstadt, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Mar. 14, 1928, Serial No. 261,680, and in Germany Mar. 12, 1927. 9 Claims. (Cl. 179—181.)



1. A diaphragm for electro-acoustic apparatus, having a plurality of elements each rigid in itself, the adjacent edges of said elements being straight, and a flexible connection following a straight-line hinge between the adjacent edges of such rigid elements.

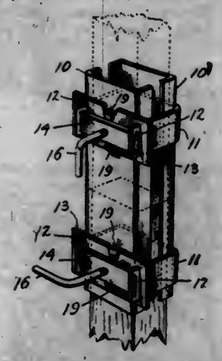
1,749,636. ANTISKID CROSS MEMBER. OLIVER F. KEISER, Barnesville, Pa. Filed Aug. 10, 1929. Serial No. 384,982. 1 Claim. (Cl. 152—14.)



An anti-skid device of the class described comprising a metallic skeleton frame including an outer frame member,

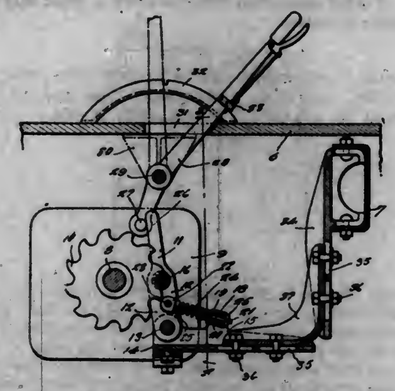
a centrally disposed ring within the frame member and spaced therefrom, radiating arms integrally connected, at their opposite ends, to the opposed edges of the frame member and the ring, and means radiating from the frame member for securing the skeleton frame in position on a tire, and comprising a covering of resilient material encasing the skeleton frame, including a centrally disposed annular flange projecting from the outer face of the covering above the ring and concentric therewith and providing a suction cup on the covering, and ribs formed on the outer face of the covering radiating from the annular flange and extending parallel with and above the arms of the skeleton frame toward the marginal edges of the covering.

1,749,637. SPLICE FOR POLES FOR SCAFFOLDING. FRANK G. KINGSTON, West Somerville, Mass., assignor to Builders' Patent Scaffolding Company, West Somerville, Mass., a Partnership composed of Frank G. Kingston, A. R. Kingston, C. C. Pimm, and Mabel G. Kitchen. Filed Feb. 27, 1928. Serial No. 257,518. 7 Claims. (Cl. 304—40.)



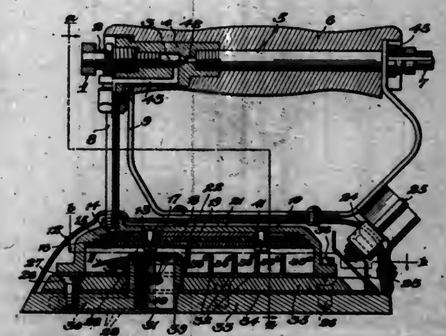
1. A pole splice comprising in a permanently assembled unit oppositely acting members adapted to engage opposite sides of pole sections placed between them and separate actuating devices spaced apart vertically to cause relative movement of said members towards one another, said actuating devices being permanently associated with said members and a portion of the latter extending between and joining said devices.

1,749,638. DEVICE TO PREVENT RETROGRADE MOVEMENT. WILLIAM LAVERY, Bloomfield, N. J. Filed Dec. 20, 1928. Serial No. 327,317. 1 Claim. (Cl. 188—80.)



A device of the class described comprising in combination, a vehicle propeller shaft, a ratchet wheel attached thereto, a pawl for said ratchet wheel, spring means normally urging the same into engaged position, a lever operable for moving the pawl out of engagement and an adjustable support for said pawl, said support comprising a plurality of bracket members including a horizontal member, a vertical member, an intermediate member, and means for adjustably securing said intermediate member with respect to each of said first named members.

1,749,639. STEAMING IRON. RENE LEPRESTRE, New York, N. Y. Filed Nov. 18, 1929. Serial No. 408,126. 19 Claims. (Cl. 68—26.)



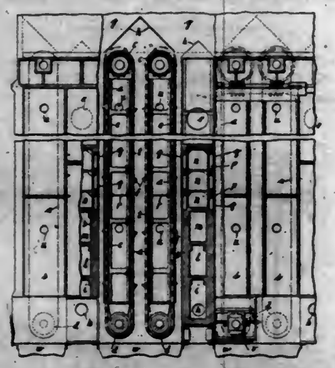
10. A steaming iron, comprising in combination, a dome having a steam chamber, water supply means connected to the dome, a base including steam outlet means communicating with the steam chamber of the dome, heating means in the base, and means forming passages in the top of the dome for conveying water at progressively lower levels toward the steam chamber and releasing the same therein.

1,749,640. FENCE POST. RICHARD DONALD MARTIN, Fort Smith, Ark. Filed Mar. 14, 1928. Serial No. 261,649. 1 Claim. (Cl. 256—57.)



As a new article of manufacture, the portion of a concrete wire fence post which is above ground consisting of a hexagonal reinforced concrete body having the reinforce projecting from its lower end to permit it to be embedded in a base, the body being provided with a plurality of transverse openings spaced apart the distance the wires are to be spaced from one another, and with notches in the corners remote from the side to which the wires are to be attached, the notches being in circumferential alinement and in the same horizontal plane with each opening of the body.

1,749,641. APPARATUS FOR CARBONIZING OR DISTILLING MATERIALS. SAMUEL MCEWEN, London, England, assignor to Coal Oil Extractio Limited, Manufacturers, London, England. Filed July 11, 1929, Serial No. 377,372, and in Great Britain June 8, 1928. 4 Claims. (Cl. 202—108.)

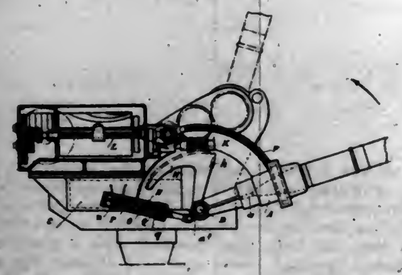


1. In a carbonization retort, a stationary heating wall, an endless chain grate conveyor, one run of which is substantially parallel to and spaced from said heating wall to provide a carbonization space, steam channels in the side of said heating wall which faces said chain grate, ports in said side of the heating wall communicating with the steam channels and with said carbonization space, a gas collecting chamber on the side of said run remote from the heating wall, and means for conveying gas through said run from the carbonization space to said gas collecting chamber.

1,749,642. MANUFACTURE OF CERAMIC WARE. JOSEPH WILLIAM MELLOR, Stoke-on-Trent, England. Filed Oct. 2, 1928, Serial No. 309,893, and in Great Britain Jan. 31, 1928. 4 Claims. (Cl. 25—157.)

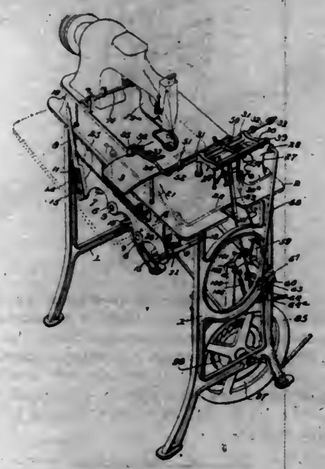
1. A body material for making ceramic ware which consists of normal body material, sodium-calcium silicate and combined boric oxide, so that the body matures at temperatures approximating to those normally employed for maturing glazes.

1,749,643. SETTING DEVICE FOR TIME FUSES. NICOLAS EMILIEN METHLIN, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed Apr. 29, 1929, Serial No. 359,090, and in France May 3, 1928. 3 Claims. (Cl. 86—23.)



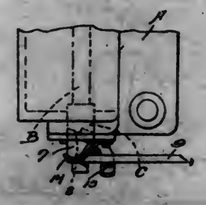
1. A setting device for time fuses which comprises, for producing the angular displacement, varying according to the range, of the movable time ring with respect to a fixed reference mark on the projectile, a fuse setter body in which is disposed a sleeve-box, one rotatable element of which is adapted to engage the movable time ring and is displaced by a gun server for rotating the said ring until the said sleeve encounters a stop which is displaced by a second gun server as a function of the setting to be obtained, characterized by the feature that the body (A) of the setting device is pivoted about a shaft (B), mounted upon the gun carriage; upon a wagon or upon any other suitable support (C) to which is secured a toothed sector (F) upon which the pivotal movement of the said fuse setter body causes a toothed crown (g), rigid with the rotatable element (G) of the sleeve-box, to travel for rotating the movable time ring, the abutment stop (h) limiting the rotation of this sleeve being carried by a toothed sector (H) loosely mounted upon the fixed pivot (B) of the body of the setting device and being displaced in the known manner through the medium of a transmission gear (H—K) controlled by the range indicating device.

1,749,644. CENTRALIZING MECHANISM FOR SEWING MACHINES. HENRY C. MILLER, Waterford, N. Y. Filed July 26, 1922. Serial No. 577,714. 43 Claims. (Cl. 112—75.)



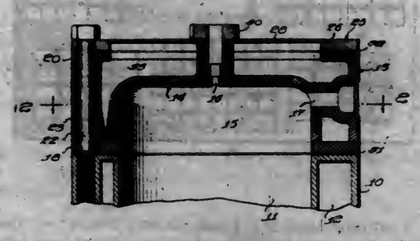
1. A centralizer, comprising a pair of swinging arms free at their ends to engage an article to be centered, and means operating on the arms at their pivotal points and free of other connection with the arms to cause said arms to swing in unison.

1,749,645. STARTING DEVICE FOR TRACTOR ENGINES. LEO NEAS, Tomah, Wis. Filed Aug. 18, 1928. Serial No. 300,529. 2 Claims. (Cl. 74—54.)



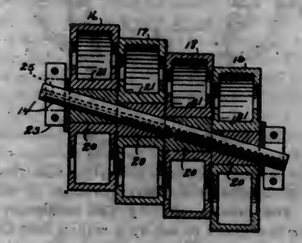
2. Starting means for a tractor comprising an internal combustion engine having a shaft on which is a ratchet, including in combination a collar loose on said engine shaft and having a ratchet opposed to that of the shaft and also having a shank, and arms mounted adjacent to the engine shaft for making and breaking connection between the collar and the engine shaft; one of said arms being adapted to engage and move the shank laterally inward on downward and forward movement of the shank, and the other arm being adapted to engage and move the shank laterally outward on upward and rearward movement of the shank.

1,749,646. CYLINDER HEAD FOR GAS ENGINES. JAMES S. NEWLON, Picher, Okla. Filed Aug. 19, 1929. Serial No. 386,988. 3 Claims. (Cl. 123—173.)



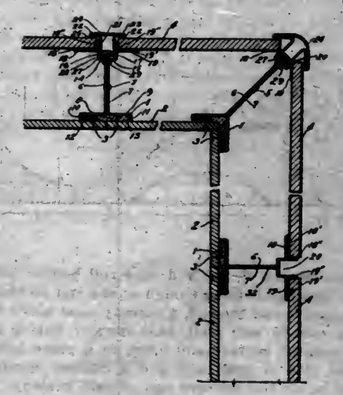
1. A cylinder head comprising a casting formed with upper and lower annular portions having bolt receiving openings therein and being further formed with bolt receiving tubes registering with said openings, the outer peripheries of said tubes being slightly spaced from the outer peripheries of said annular portions, said casting including a firing chamber adapted to communicate with the opening in a cylinder, a spark plug receiving opening communicating with said chamber and a valve receiving opening communicating with said chamber, an annular band secured between said upper and lower annular portions, and a cover plate arranged on the upper face of said upper annular portion and being provided with openings registering with said bolt receiving openings and said spark plug receiving openings respectively, said lower annular portion being provided with fluid receiving openings adapted to communicate with the cooling chamber of the cylinder when the head is secured thereto.

1,749,647. ASPHALT ROLLER. LEON A. POUJAUD, Atlanta, Ga. Filed Aug. 30, 1929. Serial No. 389,522. 3 Claims. (Cl. 94—50.)



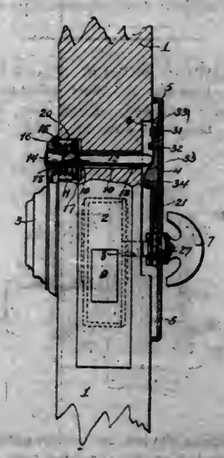
1. In a machine of the class described, a front axle normally deflected with reference to a plane perpendicular to the normal path of the machine, mounting means for the axle, a plurality of rollers, and sleeves having deflected bores and mounting the rollers on said axle with the sides of the rollers in parallel relation, the axes of rotation of the rollers being perpendicular to the normal path of travel of the machine.

1,749,648. STRUCTURAL BUILDING. LOYD W. RAY, Wichita, Kans., assignor to The White Castle System, Inc., a Corporation of Kansas. Filed Apr. 29, 1929. Serial No. 358,808. 8 Claims. (Cl. 72—115.)



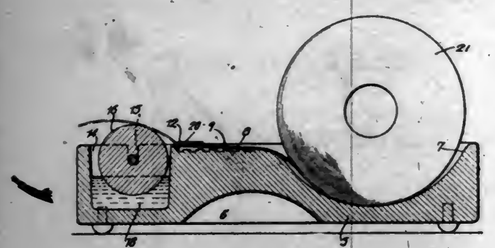
2. A studding for buildings comprising two sheets having their middle portions fastened together in parallel relation, the respective edges of the sheets having nailing strip engaging portions, wall clamping receiving portions, in combination with a nailing strip in the nail strip receiving portions, an adjustable wall engaging clamp, means for drawing the wall engaging clamp toward the clamp receiving portions, said means comprising bolts with heads in the clamps and nuts on the ends of the bolts.

1,749,649. INDICATOR FOR LOCKS. SAMUEL F. ROLPH, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Mar. 7, 1928. Serial No. 259,792. 5 Claims. (Cl. 70—6.)



1. An indicator attachment for a lock of the type equipped with an inside bolt-throwing spindle, comprising an indicator plunger to be mounted in the door independently of the lock, an inside escutcheon plate, means independent of the lock carried by said escutcheon plate for operating said indicator plunger, and a cam adapted to be mounted on the inside bolt-throwing spindle for actuating the plunger operating means when the bolt is thrown.

1,749,650. TAPE HOLDER AND MOISTENER. HARRY J. TAYLOR, New York, N. Y. Filed Dec. 8, 1927. Serial No. 238,679. 3 Claims. (Cl. 91—14.5.)

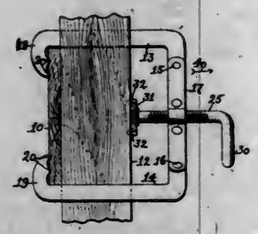


1. A moistening device and tape roll holder comprising a base, a tape roll holding trough at one end thereof, a well on the opposite end thereof, a runway over which the tape is drawn toward said well, said runway having a transversely serrated surface and being in a plane lower than the upper side of said base and a cutting member positioned adjacent the forward end of said runway.

1,749,651. METHOD OF PREPARING BITUMINOUS PAVING COMPOSITIONS. EDWIN C. WALLACE, Newton, Mass. Filed June 8, 1928. Serial No. 284,017. 8 Claims. (Cl. 106—31.)

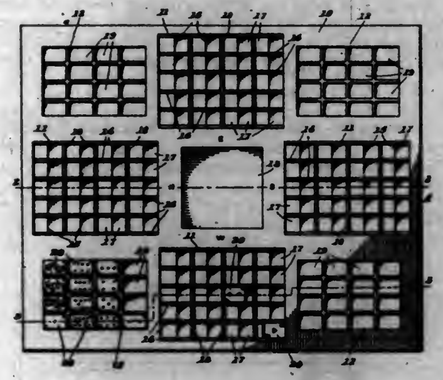
5. The method of preparing bituminous paving composition of the coarse aggregate type which consists in coating well graded mineral particles from ¼" in size up to the desired maximum with bituminous cement of any desired consistency, then adding thereto a predetermined proportion of dust free, graded material ⅛" and smaller in size, then adding more bituminous cement sufficient in quantity to give desired bituminous content in the mixture and finally adding thereto a volume of mineral dust, substantially all of which passes 50 mesh sieve and 60% or more passes 200 mesh sieve, equal to one-half the volume of the bituminous cement and agitating the mass to effect distribution of the mineral dust substantially as described.

1,749,652. CLAMPING DEVICE. FRANK L. WELT, Somerville, Mass.; Howard L. Welt administrator of said Frank L. Welt, deceased. Filed Feb. 10, 1928, Serial No. 253,459. Renewed Jan. 22, 1930. 7 Claims. (Cl. 304—40.)



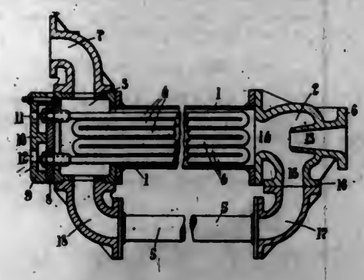
1. In a clamping device, in combination, a cross head provided with an internally threaded hub, arms pivoted to said cross head and provided with fingers having teeth for engagement with a ledger board, a screw-shaft extended through said threaded hub in engagement with the latter, and provided at its inner end with reduced portions of different diameters, washers mounted on said reduced portions, a toothed plate loosely mounted on the reduced portion of larger diameter between said washers, and a head on the end of the reduced portion of smaller diameter overlapping the washer on said smaller reduced portion.

1,749,653. GAME APPARATUS. HARRY ANDERSON WINTER, St. Johns, Newfoundland. Filed May 13, 1929. Serial No. 362,761. 5 Claims. (Cl. 273—148.)



1. A solitaire game board comprising, a board, four piece-supporting sections arranged respectively at the four points of the compass thereon, each of said sections formed with a plurality of rows of upstanding inverted V-shaped racks, the apices of all the racks being parallel, and playing pieces adapted to be supported upon the racks, the length of each playing piece being greater than that of the inclined supporting surface of the rack so that when in supported position thereon the piece projects above the apex of the rack.

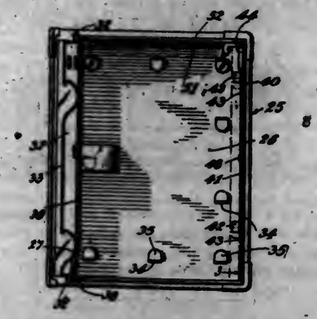
1,749,654. BOILER-FEED-WATER HEATER. JAMES NEWBY WYNDHAM and STEPHEN LEYSHON WYNDHAM, Cardiff, Wales. Filed Mar. 31, 1928, Serial No. 266,891, and in Great Britain July 29, 1927. 10 Claims. (Cl. 257—240.)



1. In a boiler feedwater heater, the combination of a casing forming a main conduit for the passage of the feedwater to the boiler, means for heating the feedwater in the casing, at least one auxiliary conduit in circuit with the casing, and means whereby the feedwater admitted to the casing is utilized to set up a return flow through the auxiliary conduit.

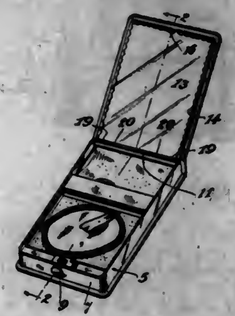
1,749,655. RECEPTACLE. DAVID H. ZELL, New York, N. Y. Filed Jan. 27, 1928. Serial No. 249,827. 8 Claims. (Cl. 232—4.)

1. A receptacle comprising a case, having a slot in one end, an inwardly extending guard tongue partially overlying the slot, a retractile coil spring secured to the case in alignment with the longitudinal axis of the slot and overlying the guard tongue, said spring co-operating with the tongue in preventing the extraction of coins from the case,



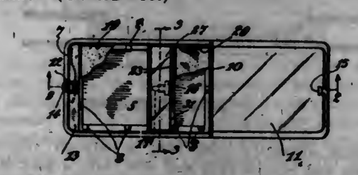
a cover hinged to the case, and a flange on the cover holding the spring in close contact with the guard tongue and against bowing.

1,749,656. VANITY CASE. DAVID H. ZELL, Brooklyn, N. Y. Filed Dec. 11, 1928. Serial No. 325,284. 3 Claims. (Cl. 132—83.)



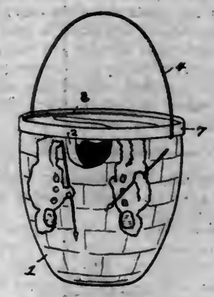
2. In a case or container, a body section having an end wall provided with a hinge knuckle, a cover for said body section including a cover plate, a continuous sheet of flexible material covering one side of the body section and extending over one side of said cover plate and having its edge portions inwardly turned upon the opposite side of said cover plate, a mirror plate superimposed upon the latter side of the cover plate and upon the inturned edges of said covering material, said mirror plate having spaced hinge knuckles on one end thereof, a hinge plate connecting said knuckles with the hinge knuckle on the body wall of the case, said cover plate having a latch tongue struck therefrom at the opposite end of said mirror plate and the mirror plate being provided with means for the co-operative engagement of said latch tongue therewith whereby said plates are securely held in attached relation to each other and for hinging movement as a unit with respect to the case body.

1,749,657. VANITY CASE. DAVID H. ZELL, Brooklyn, N. Y. Filed Dec. 11, 1928. Serial No. 325,285. 2 Claims. (Cl. 132—88.)



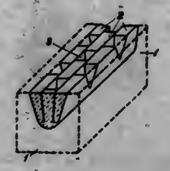
2. A vanity case including a case body adapted to receive cosmetic holding pans spaced apart longitudinally of said body, a channel shaped member adapted to be positioned transversely within the case body and having resiliently yieldable side walls to engage the spaced pans and frictionally resist their movement relative to the case body, said member adapted to receive and removably retain a lip stick holder within the channel thereof, and the body wall of the case and the bottom wall of said channel shaped member having means to coact with each other upon a bodily longitudinal movement of said member within the case to detachably lock said member in its applied position and retain the same within the case when the lip stick holder and the pans are removed therefrom.

1,749,658. ICE-CREAM CARRIER. VAN J. AULT, Fort Dodge, Iowa. Filed Mar. 9, 1926. Serial No. 93,530. 1 Claim. (Cl. 229—8.)



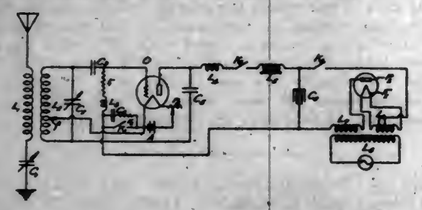
A toy igloo comprising a hollow substantially hemispherical shaped body having an open top, and adapted to be supported in an inverted position, said body having a substantially U-shaped door opening in one side and extended to the open top of the body, a piece of tearable material normally covering the door opening, and of a thickness considerably less than the material constituting the body, whereby the tearable material can be readily removed to uncover the door opening and a removable cap for said body.

1,749,659. PACKING FOR MAKING FLUID-TIGHT JOINTS BETWEEN PARTS OF ENGINES OR MACHINES HAVING RELATIVE MOVEMENT. GEORGE WILLIAM BELDAM and JOHN SMITH, Ealing, England, assignors to The Beldam Packing & Rubber Company Limited, London, England, a Limited Liability Company. Filed Aug. 21, 1926, Serial No. 130,634, and in Great Britain Jan. 1, 1926. 3 Claims. (Cl. 154—45.5.)



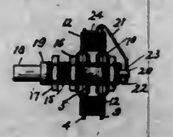
3. A packing comprising a carrier part or backing of flexible material, and a metal bar held within the same and tapering inwardly from its face to its base, said bar comprising three or more parallel layers of metal integrally connected and in surface contact with one another, each of the layers being formed with gaps, the gaps of each layer being transversely offset from the gaps of adjacent layers whereby to provide that the wearing surface of the bar presents a series of longitudinally arranged rows of blocks of solid metal with the blocks, the blocks of the respective rows being in staggered relation.

1,749,660. PLATE-CURRENT SUPPLY FOR VACUUM TUBES. HUGO BENIOFF, Pasadena, Calif., assignor to Carnegie Institution of Washington, Washington, D. C., a Corporation of the United States. Filed Aug. 7, 1926. Serial No. 127,924. 1 Claim. (Cl. 250—19.)



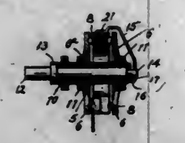
An oscillating transmitter comprising a vacuum tube, coupled grid and plate circuits therefor adapted to produce oscillations when the plate circuit is energized with direct current, said grid circuit including a grid leak connected to the grid of said tube and to the filament through a switch, a plate energizing circuit comprising a condenser connected between the plate of said tube and that terminal of said switch which is spaced from the filament, and means for charging said condenser.

1,749,661. RESISTOR. THEODORE C. BROWNE, Cleveland, Ohio. Filed Apr. 26, 1926. Serial No. 104,669. 5 Claims. (Cl. 201—55.)



1. In a resistor of the type described, a resistance element, insulating discs provided with a portion adapted to receive the peripheral portions of said element formed by inwardly extending central depressions, said discs extending beyond the periphery of said element, discs provided with a portion adapted to engage said insulating discs, the central portions being provided with outwardly extending depressions and the peripheral portions terminating short of the peripheral portions of said insulating discs, means for clamping said discs together to thereby support said element, a shaft mounted within said clamping means, and a contact arm having one end secured to said shaft, the other end engaging with said element.

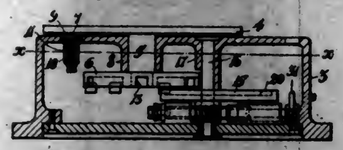
1,749,662. RESISTOR. THEODORE C. BROWNE, Cleveland, Ohio. Filed Apr. 26, 1926. Serial No. 104,670. 7 Claims. (Cl. 201—55.)



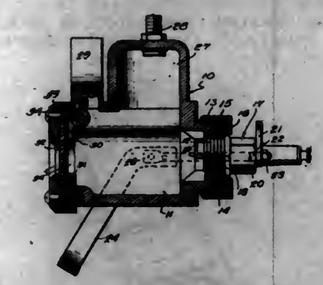
1. In a resistor of the type described, a resistance element, means for supporting said element, beads of insulating material interposed between the supporting means and said element, means for clamping said supporting means and said element together, and a contact arm carried by said clamping means and engaging with said element.

1,749,663. INTERMITTENT GEARING. EJNAR CHRISTIANSEN, Birmingham, England, assignor of one-half to Carl Oscar Ericsson, Birmingham, England. Filed Apr. 12, 1926, Serial No. 101,444, and in Great Britain Apr. 18, 1925. 3 Claims. (Cl. 74—41.)

1. Means for intermittently moving a revolving table comprising a revolving driving member, a pin or roller carried thereby, a spindle on which the revolving table is mounted, a stationary table for the machine in which the spindle is journalled, spring pressed anti-friction members for resiliently supporting the revolving table on the stationary table, a disc having radial slots mounted on the said spindle with which slots the said pin or roller engages and means for holding the revolving table in a predetermined position during the stationary period.



1,749,664. SPARK-PLUG-TESTING DEVICE. WALTER N. CLOUSE, Tiffin, Ohio, assignor of one-half to Carey A. Lull, Tiffin, Ohio. Filed July 22, 1926. Serial No. 124,246. 3 Claims. (Cl. 175—183.)

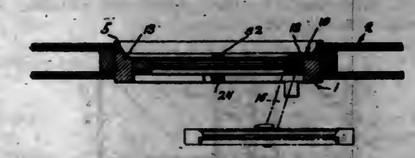


1. A device adapted to form an air tight connection between a spark plug and a casing of a testing device comprising a compressible gasket arranged against an opening in the casing and provided with an opening through which a portion of a spark plug is adapted to be inserted, a portion of the casing adjacent and concentric to said gasket being threaded, a cap engaging the threaded portion of said casing and contacting with said gasket whereby the latter may be compressed to vary the size of the opening therein, and means carried by said casing for clamping another portion of the spark plug against said gasket to form a closure for the opening therein.

1,749,665. CONSERVING STORAGE-BATTERY SOLUTION. CHARLES B. DILTZ, Frost, Tex. Filed Feb. 4, 1927. Serial No. 166,026. 1 Claim. (Cl. 136—154.)

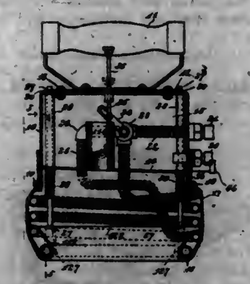
A storage battery electrolyte containing a 1.25 solution in water of sulphuric acid to which has been added in each gallon ½ lb. of sodium carbonate, 1½ oz. of boric acid, 1½ oz. of tartaric acid, 1 oz. of carmine, and 2 ozs. of sodium silicate.

1,749,666. WINDOW. JAMES H. FENNESSY, Dayton, Ohio. Filed Mar. 21, 1928. Serial No. 263,428. 1 Claim. (Cl. 30—58.)



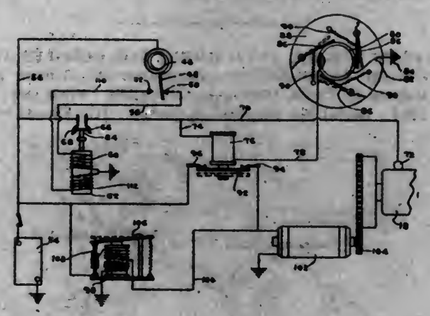
A window structure comprising a window frame including top and bottom rails and side rails, a sash within said frame including top and bottom bars and connecting side bars, supporting arms for the sash arranged between the top bar of the sash and the top rail of the frame and between the bottom bar of the sash and the bottom rail of the frame, means pivotally securing the outer ends of said arms directly to the inner faces of the top and bottom rails of the window frame adjacent to one side rail thereof, pivot bolts rotatably carried by the upper and lower bars of the sash having their shanks provided adjacent to their heads with polygonal portions, said arms having polygonal openings for receiving the polygonal portions of said shanks of the bolts, and a supporting bracket for the lower arm secured to the bottom rail of the window frame in transverse alinement with the pivot points of the arms, whereby the lower arm will rest upon said bracket when the arms are swung at right angles to the window frame.

1,749,667. HAT IRON AND STEAMER. DAVID FREEDLEIN, New York, N. Y. Filed Apr. 12, 1928. Serial No. 269,579. 10 Claims. (Cl. 223—28.)



1. An iron and steamer, including a hollow body having a partition therein forming with the body a steam chamber, and a steam pipe extending into said chamber and passing downwardly through said partition below the chamber, said steam pipe being formed into a drying coil below the partition, the drying coil being collapsible in response to pressure exerted thereon in the use of the iron.

1,749,668. AUTOMATIC STOPPING AND STARTING DEVICE FOR GASOLINE ENGINES. KENNETH A. GRAVES, Fargo, ROBERT C. GRAVES, Doyon, and HENRY JUNBAU, Grand Forks, N. Dak. Filed June 8, 1926. Serial No. 113,519½. 4 Claims. (Cl. 290—35.)



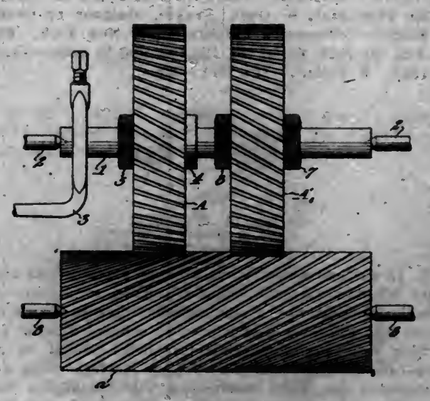
1. In an automatic stopping and starting device for gasoline engines, the combination of a thermostat located in a chamber whose temperature is to be controlled, said thermostat having a movable member and fixed maximum and minimum contact points, a battery connected to said movable member, a starter generator driven by the engine, a two-part electromagnetic device one side of which is connected to said maximum contact point to cause current to flow from said battery to the engine ignition and to said starter generator for starting the engine when the temperature in said chamber rises to a predetermined point, a throw-out device operated by the engine which cuts off the supply of current from said battery to said starter generator when the engine is fully started, and a connection between the second side of said two-part electromagnetic device and said minimum contact point whereby current to the engine ignition is cut off when the temperature in said chamber falls to a predetermined point.

1,749,669. HANGER FOR AIR CABLES. OTTO ANGELL GRÖNBERG, Oslo, Norway. Filed Dec. 11, 1926, Serial No. 154,152, and in Norway Dec. 22, 1925. 2 Claims. (Cl. 248—38.)



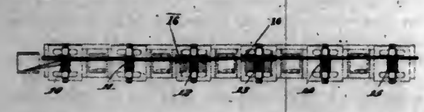
1. A hanger for air cables formed from a single strip of resilient metal comprising a medial portion, loops continuing from the ends of the medial portion and adapted for fitting a carrying wire and a cable respectively, end portions continuing from the loops and arranged adjacent the medial portion, and means for connecting each of the end portions independently with the medial portion, including tongues integral with and projecting from the lateral edges of one of said portions and engaging and gripping the lateral edges of the other adjacent portion.

1,749,670. METHOD OF AND APPARATUS FOR MAKING GEARS. WILLIAM E. HOKE, Baltimore, Md. Filed Mar. 15, 1928. Serial No. 261,874. 5 Claims. (Cl. 51—26.)



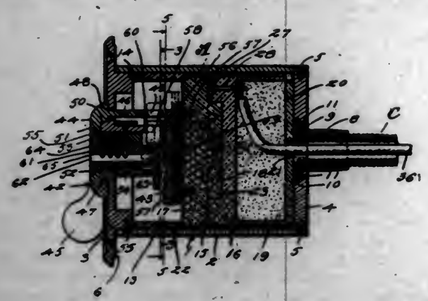
1. The method of forming a pair of precision, complemental gears which comprises forming a pair of complemental precision laps by lapping the same upon each other, and forming the gears of said pair by lapping the same with the respective laps of the complemental precision laps.

1,749,671. PROCESS FOR ROLLING METAL. WILLIAM T. MILLER, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Feb. 11, 1925. Serial No. 8,877. 2 Claims. (Cl. 80—60.)



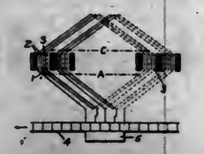
1. The process of rolling bars which consist in passing a billet through rolls which simultaneously twist and reduce the metal and then passing such twisted metal through a pass to reduce but not twist the metal.

1,749,672. LOCK-CONTROLLED IGNITION SWITCH. CHARLES W. MITCHELL, Nashville, Tenn. Filed Sept. 5, 1925. Serial No. 54,737. 4 Claims. (Cl. 200—44.)



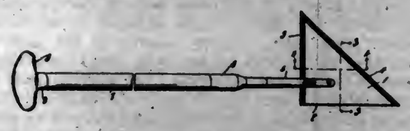
1. An electric switch comprising a movable circuit making and breaking member, a fixed member, a spring pressed movably mounted operating member for said first member, a spring pressed bolt carried by said first member and normally engaging said fixed member, a detent for engagement with said operating member, and a lock for moving the bolt into engagement with the operating member and holding the detent in position to engage said operating member.

1,749,673. DYNAMO-ELECTRIC MACHINE. JOSEPH M. PESTARINI, St.-Ouen, France, assignor to General Electric Company, a Corporation of New York. Filed Aug. 10, 1926, Serial No. 128,493, and in France Oct. 8, 1925. 6 Claims. (Cl. 171—228.)



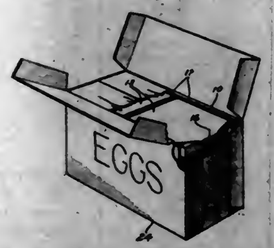
1. In a dynamo electric machine, an armature, an armature winding thereon comprising main conductors and auxiliary conductors, a single commutator to which said main and auxiliary conductors are connected, coils comprising said auxiliary conductors being wound on said armature in the same direction as corresponding coils comprising the main conductors, and means for short circuiting coils comprising said auxiliary conductors when commutation of corresponding coils comprising said main conductors takes place and keeping said coils comprising said auxiliary conductors short circuited during commutation of said coils comprising said main conductors and until the current induced in said coils comprising said auxiliary conductors by the reversal of the load current in the corresponding coils comprising said main conductors has died out.

1,749,674. AGRICULTURAL IMPLEMENT. JOSEPH G. ROBERSON, Corcoran, Calif. Filed May 5, 1927. Serial No. 189,017. 1 Claim. (Cl. 97—68.)



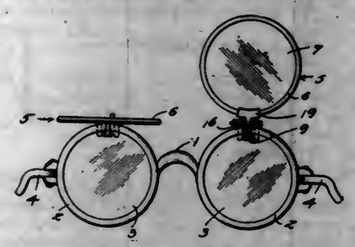
An agricultural implement, comprising a handle, a flat plate secured to said handle and forming a cutting blade, said plate being in the shape of a right angled triangle and secured to an end of the handle and at an acute angle to the axis thereof, the side of said plate corresponding to the base of the triangle being arranged transversely of the axis of the handle and sharpened and forming the rear edge of the blade, the side of the plate at right angles to the rear edge comprising one side of the blade and being unsharpened, and the remaining side of the plate being sharpened and joining the other sides forming sharp points directed forwardly and laterally of the handle.

1,749,675. EGG-PROTECTING MEANS. PAUL A. A. ROUIS, Burlingham, N. Y. Filed Mar. 12, 1927. Serial No. 174,948. 2 Claims. (Cl. 217—3.)



1. The combination with a crate adapted to contain eggs, of a separate preformed outer protective covering adapted to be arranged on said crate to completely enclose the crate and being removable from the crate, and a separate preformed inner protective lining adapted to lie contiguous the adjacent walls of the crate and to completely enclose the eggs and being removable from the crate, said inner lining having an indicia bearing flap capable of being attached to the upper edge of one of the walls of the crate, and exposed to view with the outer protective covering on the crate.

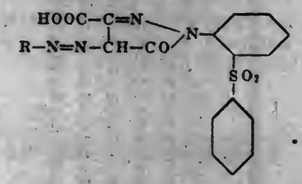
1,749,676. SHADE ATTACHMENT FOR GOGGLES AND OTHER EYEGLASSES. FREDERICK W. SADLER and ROBERT C. VEIRS, Oklahoma City, Okla. Filed Oct. 13, 1927. Serial No. 225,965. 7 Claims. (Cl. 88—41.)



1. An attachment for goggles comprising shades, means connecting the shades to the goggles for circumferential adjustment with respect to the glasses thereof, and means carried by said first means for securing the shades in adjusted angular positions relatively to the surfaces of said glasses.

1,749,677. AMINODIARYLSULFONPYRAZOLONE AZO DYESTUFFS. HUGO SCHWEITZER, Wiesdorf, near Cologne, and WILHELM NEELMEIER, Leverkusen, near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Jan. 5, 1926, Serial No. 79,476, and in Germany Jan. 8, 1925. Divided and this application filed Mar. 30, 1927. Serial No. 179,708. 8 Claims. (Cl. 260—87.)

1. As new products, the azodyestuffs having in the free state most probably the formula:

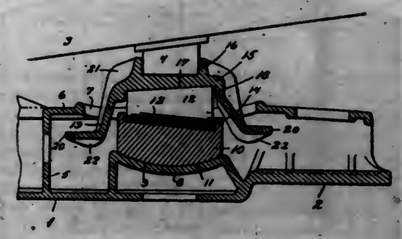


wherein R represents an aromatic group and in which the benzene nuclei attached to the sulphone group may be substituted or not, which dyestuffs are obtainable by coupling a corresponding aromatic diazo compound with a pyrazolone carboxylic acid of an amino-diarylsulphone.

1,749,678. MANUFACTURE OF ALLOY STEELS. ARCHIBALD D. SHANKLAND, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed May 19, 1926. Serial No. 110,287. 9 Claims. (Cl. 75—45.)

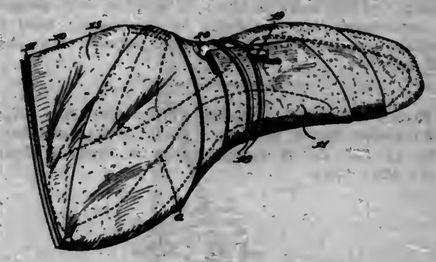
1. A method of introducing an alloying element into a bath of steel by including scale containing said element in a furnace charge, which consists in, making a reduction mixture of the scale and a suitable reducing agent, charging the mixture into a furnace in such a manner as to be substantially surrounded by the ferrous metallic constituents of the charge, the portion of the latter underlying the reduction mixture having been previously heated to an impervious coalescence, and effecting fusion of the entire furnace charge in the normal manner.

1,749,679. RAILWAY-TRUCK BOLSTER. THOMAS H. SYMINGTON and PERCY R. DRENNING, Baltimore, Md., assignors to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland. Original application filed Apr. 9, 1926, Serial No. 100,943. Divided and this application filed Mar. 17, 1927. Serial No. 176,128. 14 Claims. (Cl. 308—226.)



1. A railway truck bolster having a pocket therein, a support within the pocket, a roller movably mounted on the support, a bearing member resting upon the roller, and adapted to receive a depending bearing element on a body bolster for movement therewith, and equalizing means permitting automatic shifting of the support and tilting of the axis of the roller to establish straight line contact thereof with the support and the bearing member.

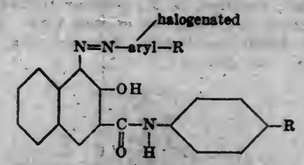
1,749,680. CONTAINER. GERTRUDE P. VISSCHER, Memphis, Tenn. Filed Aug. 23, 1927. Serial No. 214,962. 1 Claim. (Cl. 150—3.)



A device of the class described comprising a deformable body open at one side, a freely flexible closure flap extended at one side edge of the opening of said body and adapted to be wound about said body, said closure flap being cut away at one side and outwardly from the body on a line extending diagonally with respect thereto, whereby the flap is of maximum length at one side of the transverse center of the body, a flexible securing means for said flap and adapted to be encircled about the body and flap, and means carried by the free end of said flap for attaching said securing means thereto, said last-mentioned means being adapted to secure the free end of said securing means after the same has been encircled about the body and flap.

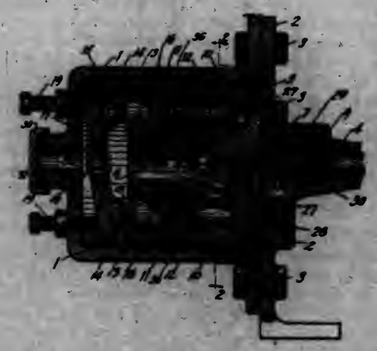
1,749,681. AZO DYESTUFFS AND PROCESS OF MAKING SAME. HERMANN WAGNER, Bad-Soden-on-the-Taunus, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Feb. 12, 1923, Serial No. 618,710, and in Germany Feb. 24, 1922. Divided and this application filed Dec. 23, 1925. Serial No. 77,390. 8 Claims. (Cl. 260—95.)

1. As new products azo-dyestuffs of the following constitution:



wherein R designates an alkyl or alkyloxy group.

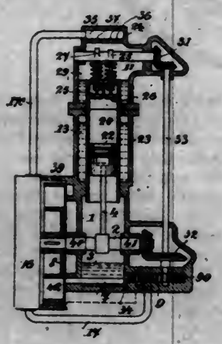
1,749,682. PUMP. ARTHUR SHELDON WELDY, Canton, Ohio. Filed Sept. 3, 1926. Serial No. 133,453. 10 Claims. (Cl. 103—162.)



1. In a pump of the character described, a rotor provided with a plurality of parallel disposed pumping cylin-

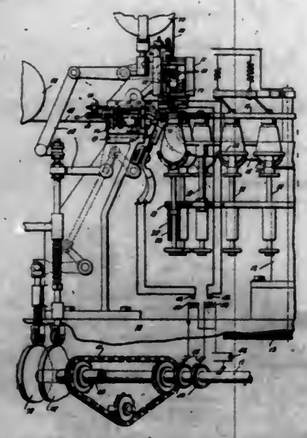
ders, a hollow shaft adapted to be placed in communication with said cylinders through passages angularly disposed to the axis of said shaft, and check valves in said passages having movable elements adapted to be actuated by centrifugal force developed by the moving rotor for normally cutting off communication between said shaft and cylinders.

1,749,683. INTERNAL-COMBUSTION ENGINE. HANS WINDHOFF, Berlin, Germany. Filed Oct. 14, 1926, Serial No. 141,555, and in Germany Aug. 20, 1926. 2 Claims. (Cl. 123—170.)



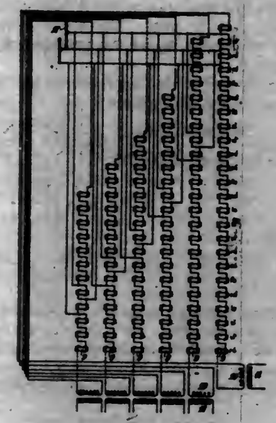
1. An internal combustion engine, comprising means for cooling the engine cylinder with the oil that is used for lubricating the working parts of the engine, a crank casing adapted to contain oil for splash lubrication, a fan arranged directly in front of one end of the crank casing, a radiator arranged in front of said fan and means for supplying warm oil from the crank chamber to the radiator to be cooled.

1,749,684. ELECTRIC SOLDERING MACHINE. DANIEL K. WRIGHT, Paterson, N. J., assignor to General Electric Company, a Corporation of New York. Filed Mar. 28, 1925, Serial No. 19,129. Renewed Aug. 21, 1929. 23 Claims. (Cl. 176—3.)



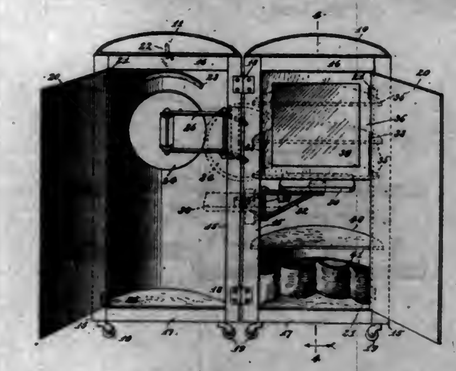
1. In a soldering machine, the combination of a movable work holder, a pair of electrodes mounted adjacent the path of said holder to make electrical contact with an object in said holder, actuating mechanism for bringing said electrodes and said holder into and out of operative relation to each other, and a solder feed device actuated by said mechanism to place solder in contact with the portion of said object heated by flow of current through it from one electrode to the other.

1,749,685. PROCESS FOR THE GENERATION AND SYNTHESIS OF SOUNDS. RAYMOND ZOUCKERMANN, Cherbourg, France. Filed Jan. 13, 1926, Serial No. 81,024, and in France June 2, 1925. 1 Claim. (Cl. 84—1.)



An electrical musical instrument comprising in combination; alternators constituted each by a toothed iron disc rotating in front of coils with a magnetized core, each coil corresponding to a fundamental sound (or a first harmonic) or to a harmonic of a given order of another fundamental; transformers of the same number as that of the harmonics to be combined for producing a resultant sound; means for connecting all the coils corresponding to a given order of harmonics, to the primary winding of the corresponding transformer; an amplifier connected to the secondary windings of the transformers; contacts short-circuiting the coils, each contact short-circuiting at the same time the various coils corresponding to a fundamental sound and to the harmonics of the latter, and means for independently regulating the ratio of transformation of each of the transformers and the resistance of their secondary circuit.

1,749,686. COMBINATION ARTICLE OF FURNITURE. THEODORE AGAZZI, Brooklyn, N. Y. Filed July 12, 1928. Serial No. 292,304. 1 Claim. (Cl. 312—152.)



The combination of a cabinet having a pair of hingedly connected sections, a horizontally disposed table swingably carried by one section for movement from a normally housed inactive position within said section to an exposed outwardly projecting active position, and a vertically disposed mirror swingably carried by the other section for movement from a normally housed inactive

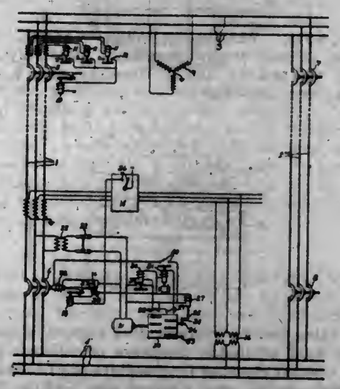
position within said section to an exposed active position over the table to render the cabinet useful as a dressing table, a drop-leaf swingably carried by the upper portion of one section and movable downwardly from a normally vertically disposed position to a horizontal position extending outwardly of the section, said leaf having a mirror on its outer side adapted to cooperate with the first mentioned mirror to obtain a double reflection when the leaf is in its normal vertical position.

1,749,687. DOOR AND LINTEL FOR SILOS. ADOLPH I. ANDERSON, Zumbrota, Minn. Filed May 4, 1928. Serial No. 275,110. 3 Claims. (Cl. 72—98.)



1. A lintel, comprising a thin metallic plate element and a relatively heavy body of reinforced concrete mechanically connected therewith, the plate being proportioned for support in a wall structure laterally of a frame for an opening therein.

1,749,688. AUTOMATIC RECLOSING CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York. Filed Feb. 8, 1929. Serial No. 338,584. 4 Claims. (Cl. 175—294.)



1. In combination, a polyphase source of current, a polyphase load circuit, a polyphase feeder connecting said source and circuit, an overload circuit breaker between said source and feeder, a circuit breaker between said feeder and circuit, fault responsive means for opening said last mentioned circuit breaker, means responsive to a single-phase voltage of said feeder for reclosing said last mentioned circuit breaker, and means for limiting the reclosures of said last mentioned circuit breaker to a predetermined number when a fault occurs which effects the opening of said last mentioned circuit breaker without effecting the opening of said overload circuit breaker and the deenergisation of the phase to which said reclosing means responds.

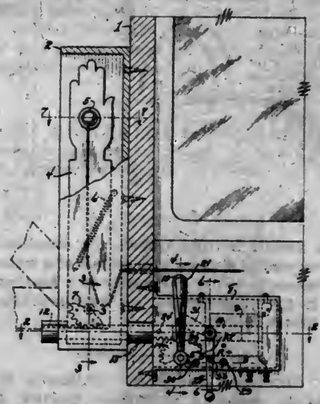
1,749,689. TOY TARGET. FRED T. BAUM, Marion, Ind. Filed Apr. 15, 1929. Serial No. 355,184. 3 Claims. (Cl. 273—102.)

1. A target comprising a support element having a horizontal row of apertures adjacent the upper edge thereof, a target swingably mounted on the edge of said support and in vertical alinement with each of said apertures, said target having a downwardly extended portion passing



through its associated aperture, said portion having upon its reverse side a numerical value, adapted to be displayed upon rearward swinging movement of said target.

1,749,690. TURN SIGNAL. LAWRENCE M. BEARLAND, Missoula, Mont. Filed June 24, 1927. Serial No. 201,242. 1 Claim. (Cl. 177—327.)



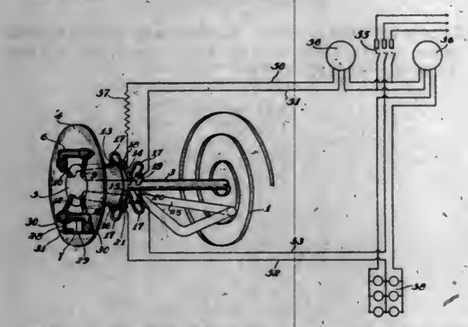
A signal for the purpose set forth, including a fixed casing having an outer open face, a signal arm in the casing, a pivot for the signal arm, a spring influencing the signal arm into the casing, a toothed segment on the pivot, a rack bar engaging the segment, a solenoid having a core fixed to the rack bar, a shaft, a segmental member freely mounted on the shaft engaging with the rack bar, a lug on said segmental member, a lever on the shaft, a pivotally supported spring influenced handle carried by the lever, a pivoted dog carried by the lever and slidable therethrough, said casing having three concentrically arranged equidistantly spaced openings to receive the dog therethrough, a finger fixed on the shaft and in the path of contact with the lug, spaced contacts in the circuit for the solenoid, a switch lever, a pivot to which the switch lever is connected and said switch lever being, also in the solenoid circuit and swingable to engage with the contacts, said lever having its inner face indented, spring influenced dogs to engage in the said indenture of the switch lever when the switch lever is swung to engage with the several contacts and a contact element on the pivot for the switch lever swingable in the path of the lug on the segment when the switch lever is swung to engage with any of the several contacts.

1,749,691. THREAD HOLDER AND CUTTER. ANNA ZENTZ BENNETT, San Diego, Calif. Filed Jan. 14, 1929. Serial No. 332,405. 3 Claims. (Cl. 242—126.)



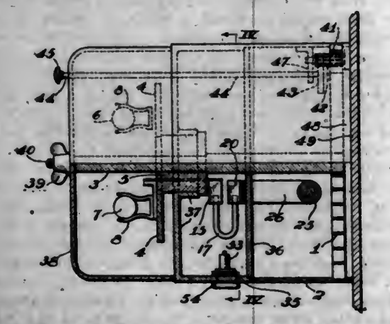
1. A thread cutting attachment for spools comprising a plate adapted to be attached to the end of a spool, a curved flange at one edge of the plate and adapted to extend along and be slightly spaced from the edge of the spool, said attachment being oppositely notched to provide outer thread engaging clamps and inner cutting edges.

1,749,692. ELECTRIC HEATING SYSTEM. CLARENCE E. BOGGS, Boise, Idaho, assignor to Edison Electric Appliance Company, Inc., a Corporation of New York. Filed Apr. 10, 1926. Serial No. 101,150. 10 Claims. (Cl. 219—20.)



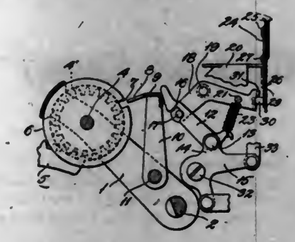
1. In an electric heating system, the combination with a range connected in a three wire circuit of a water heater, and a thermostatic switch responsive to a heating element connected in the range neutral for automatically opening the water heater circuit.

1,749,693. CONTROL SWITCH. CLARENCE E. BOGGS, Boise, Idaho, assignor to Edison Electric Appliance Company, Inc., a Corporation of New York. Original application filed Apr. 10, 1926, Serial No. 101,150. Divided and this application filed Oct. 5, 1926, Serial No. 139,629. Renewed Dec. 4, 1929. 8 Claims. (Cl. 200—122.)



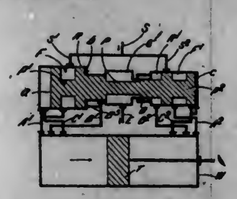
1. A thermostatic switch comprising a bimetallic bar, an operating shaft secured to and adapted to be actuated by said bar, a plurality of mercury switches associated with and adapted to operate with the movement of said shaft, and a resistor element mounted adjacent said bar, said mercury switches being adapted for operation by the actuating characteristics of said bar responsive to the heat variations of said resistor element and one of said switches constituting a by-pass on said resistor element.

1,749,694. ADDING AND RECORDING MACHINE. CHARLES E. BROMAN, Grand Rapids, Mich., assignor, by mesne assignments, to Add-Index Corporation, a Corporation of Delaware. Filed Dec. 31, 1921. Serial No. 526,268. 6 Claims. (Cl. 235—60.)



6. In an adding and recording machine the combination of a movable accumulator, a shiftable support for a ribbon inked in a distinctive color, and means controlled by the movement of the accumulator for shifting the ribbon support to bring the distinctive part of the ribbon to printing position when the parts of the accumulator are at zero or clear position.

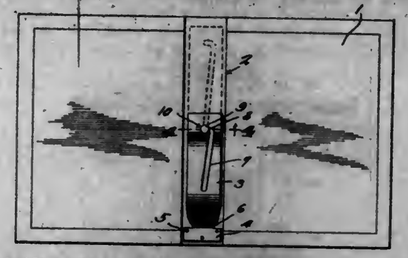
1,749,695. FLUID-ACTUATED VALVE. RAIMUND DRATH, Grunau, Berlin, Germany. Filed July 27, 1926, Serial No. 125,274, and in Germany Aug. 1, 1925. 1 Claim. (Cl. 121—150.)



In a valve gear for reciprocating engines, a casing having two fluid admission chambers of different diameters and an exhaust chamber intermediate the two fluid admission chambers, an open exhaust pipe leading therefrom, a control valve in the form of a differential piston having at each end two discs separated by a groove, one pair of discs being of a larger diameter than the other pair, the area of the small end face, together with an annular surface situated on the inner side of the larger pair of discs being greater than the area of the larger end face, a working cylinder, a piston located therein, three valve control conduits leading from each fluid admission chamber to the working cylinder at its ends respectively and adapted to be opened and closed by the differential piston substantially as shown.

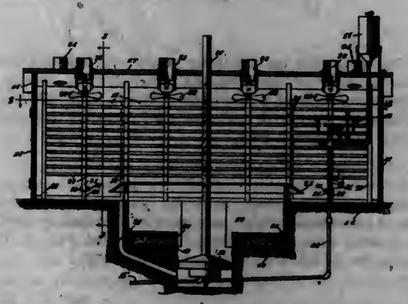
1,749,696. DISPLAY DEVICE. JOHN C. DUKE, Washington, D. C. Filed July 14, 1928. Serial No. 292,705. 5 Claims. (Cl. 206—44.)

1. The combination with a container having a depression in the bottom thereof, of a resilient strip normally seated flat within the depression, means for fixedly attaching one end of said strip to the container, there being an obliquely disposed slot within the strip having a lateral extension adjacent the free end of the strip, and means carried by the container and extending through the slot



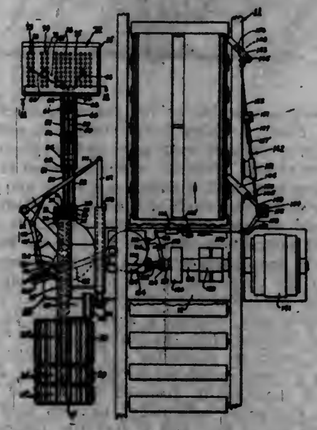
for holding the strip flat within the depression and for engagement with the free end portion of the strip to hold the strip bowed outwardly from the depression.

1,749,697. INCUBATOR. EDGAR EGAN, Meadow Grove, Nebr. Filed Aug. 10, 1928. Serial No. 298,805. 3 Claims. (Cl. 119—39.)



1. In an incubator, a housing having a pit, a heating element arranged within the pit, moisteners for the air emitted from said pit, a deflector having inclined surfaces and extended over the pit and elevated from the bottom of the housing, egg trays arranged within the housing, and fan members directing air currents upon the inclined surfaces of the deflector to cause circulation of the generated air around and about said trays.

1,749,698. AUTOMATIC BOX-STAMPING MACHINE. ERNEST E. EVANS, Riverside, Calif. Filed Nov. 23, 1927. Serial No. 235,187. 15 Claims. (Cl. 101—35.)

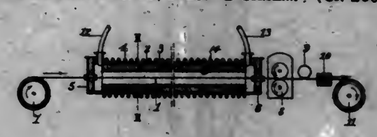


1. In combination with a conveyor, a printing member, means operated by an article on said conveyor to move said printing member against an article on said conveyor, said printing member including shiftable characters, and key operated selective means for moving said characters to printing position.

1,749,699. WEIGHTING OF SILK. ALBERT FEUBT., Krefeld, Germany. Filed Nov. 17, 1926, Serial No. 148,996, and in Germany Nov. 28, 1924. 14 Claims. (Cl. 8—13.)

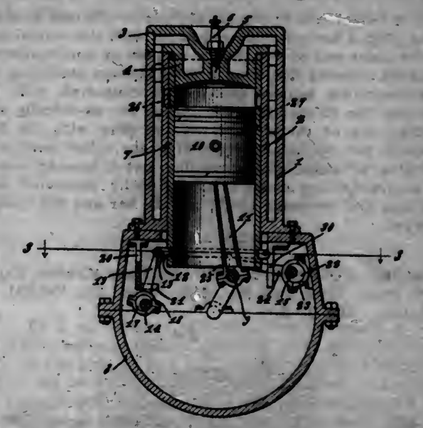
1. In processes of weighting silk by means of salts of heavy metals, the step which consists in treating unweighted silk with a solution of a basic aluminum compound containing nitrate radicles.

1,749,700. APPARATUS FOR THE CONTINUOUS TREATMENT OF METAL BODIES. MARCEL FOURMENT, Paris, France. Filed Dec. 22, 1926, Serial No. 156,424, and in France Dec. 29, 1925. 2 Claims. (Cl. 266—1.5.)



2. Apparatus for the continuous thermal treatment of metallic bodies comprising an air-tight tube of heat insulating material, the interior of this tube being provided with a facing of material conductive of electricity, said tube being surrounded by an inductor coil connected to a source of high frequency electricity, said coil being itself tubular and having means for leading a current of cooling fluid through said tubular coil.

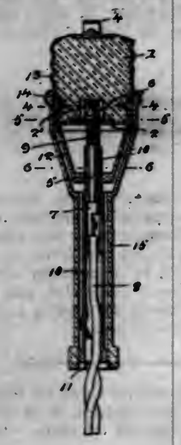
1,749,701. SINGLE-SLEEVE-VALVE ENGINE. EDWARD LESLIE GILBERT, Fort Bayard, N. Mex. Filed Apr. 18, 1928. Serial No. 269,775. 1 Claim. (Cl. 123—81.)



An internal combustion motor comprising a cylinder block, a head fitting thereon and having depending portions extending into the cylinders and spaced from the internal walls of the cylinders, a sleeve valve arranged in each cylinder with its upper end entering the space formed between the depending part of the head and the upper end of the cylinder, a crank case connected with the block, a crank shaft in the case, a piston slidably arranged in each sleeve valve, a rod connecting each piston with the crank shaft, a pair of shafts journaled in the crank case, means for connecting the shafts with the crank shaft, eccentrics on the shafts, rods connected with the eccentrics on one shaft, collars rotatably arranged on

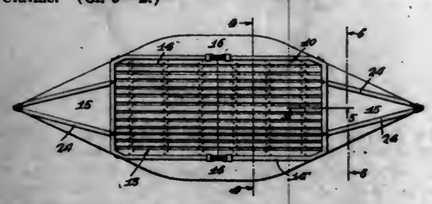
the sleeve valves and pivoted to said rods, projections on the lower end of each sleeve at opposite sides thereof, each projection having a rounded head, a pair of connecting rods having sockets at their inner ends receiving the heads of the projections on each sleeve, the outer ends of each pair of rods being connected with a pair of the eccentrics on the second shaft, a depending member in the crank case having a forked rightangular end, the prongs of which engage each rod which is pivotally connected with the collar for preventing side movement of said rod and a second forked member depending from a part of the crank case for engaging each rod connected with a projection on the sleeve for preventing side movement of said rod.

1,749,702. ELECTRIC SWIVEL. ELMA E. GOUCHER and RODNEY B. CUMMINGS, McMinnville, Oreg. Filed Aug. 25, 1928. Serial No. 301,970. 4 Claims. (Cl. 173—359.)



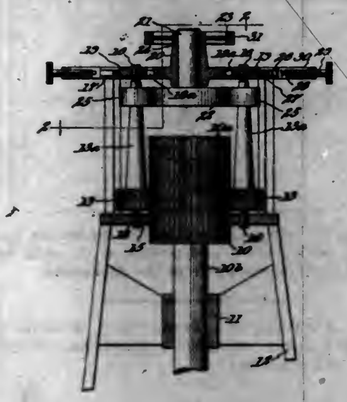
1. A swivel connection for electric conductors comprising a plug, a bar rotatably connected with the central part of the outer end of the plug, a member of non-conducting material covering the bar, a tubular member encircling the non-conducting member, conductors connected with the bar and the tubular member, means for electrically connecting one of the contacts of the plug with the bar, a brush for electrically connecting the other contact of the plug with the tubular member and a housing formed of non-conducting material mechanically connected with the plug and enclosing the brush, the bar and the tubular member.

1,749,703. COLLAPSIBLE BOAT. HANS HAUGEN, Fargo, N. Dak. Filed July 30, 1928. Serial No. 296,241. 3 Claims. (Cl. 9—2.)



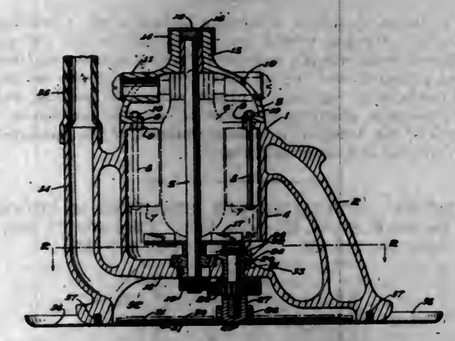
1. A collapsible boat comprising a main section, hollow buoyant end sections, hollow buoyant side sections, said end and side sections being adapted to be positioned within the main section when the boat is not in use, and means at the corners of the main section and common to the end and side sections to removably secure the end and side sections to the ends and sides of the main section upon the outside of the latter.

1,749,704. APPARATUS FOR FINISHING GEARS. WILLIAM E. HOKE, Baltimore, Md. Filed Jan. 11, 1924. Serial No. 685,684. 8 Claims. (Cl. 51—26.)



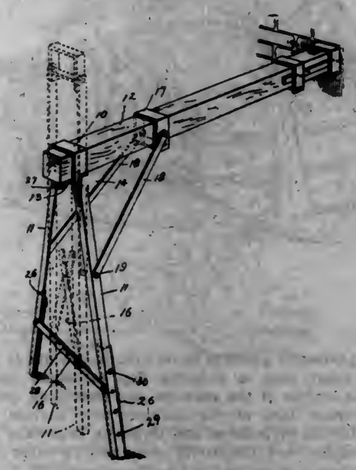
1. In apparatus for finishing gears, the combination of a central gear of considerable axial extent, means for revolubly supporting a plurality of gears to be finished in mesh relation therewith and means for reciprocating and for rotating the central gear.

1,749,705. ABRADING DEVICE. JOSEPH G. HUDSPITH, San Luis Obispo, Calif., assignor of one-half to Nathan S. Lewin, San Luis Obispo, Calif. Filed Feb. 6, 1928. Serial No. 252,212. 1 Claim. (Cl. 51—170.)



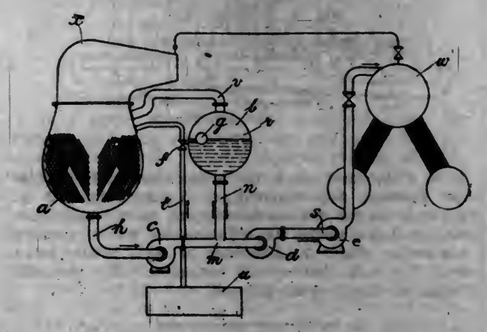
An abrading machine of the character described comprising a frame, a hollow body included in said frame, a shaft passing through said body and terminating below the bottom thereof, electrical means arranged in said body for rotating said shaft, a pinion carried by and fixed upon the lower end of said shaft, a bushing threadedly mounted within said bottom and vertically adjustable therein, a stub shaft journaled within the bore of the bushing and disposed in parallelism with the first mentioned shaft, a flange for the upper end of the bushing engageable with the bottom for limiting downward movement of the stub shaft within said bottom, a gear secured to said stub shaft and meshing with the pinion, a sleeve nut carried upon the lowermost depending end of the stub shaft and including a closed end socket portion therefor, an abrasive faced disk horizontally disposed within said bottom, a dove-tail connection established between said disk and closed end sleeve nut, and a centrally apertured guard carried by the frame adjacent the bottom to facilitate projection and rotation of the disk therein.

1,749,706. LEG FOR HORSES, ETC. FRANK G. KINGSTON, West Somerville, Mass., assignor to Builders Patent Scaffolding Company, West Somerville, Mass., a Partnership composed of Frank G. Kingston, A. R. Kingston, C. C. Pimm, and Mabel G. Kitchen. Filed Feb. 27, 1928. Serial No. 257,519. 4 Claims. (Cl. 304—5.)



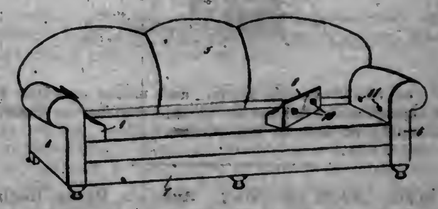
1. A support for a horizontal member comprising a pair of member-engaging devices for separable connection with the member, a pair of legs connected to ons of said devices movable to diverge in opposite directions or towards one another and a pair of brace bars extending between the other device and the legs and pivoted to the legs for movement with said other device towards and from the legs.

1,749,707. STEAM-POWER PLANT WITH CLOSED FEED SYSTEM. CHARLES RUSSELL LANG, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Filed Feb. 11, 1928, Serial No. 253,778, and in Great Britain Feb. 26, 1927. 1 Claim. (Cl. 60—94.)



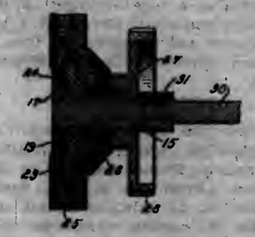
A steam power plant having the feed system arranged as a closed-feed system and including a boiler, a steam engine (which may be a turbine), a main condenser, a main feed conduit, a water-extraction pump which deals with the feed water obtained by condensation of the steam in the said condenser and discharges this feed water under a pressure above atmosphere into the said main feed conduit, a boiler feed pump which discharges the feed water from said main feed conduit into the said boiler, a reserve feed tank open to the atmosphere, an elevated feed reservoir, means for maintaining the said elevated feed reservoir under the same pressure as existent in the said condenser, a pipe connecting the said reservoir—below the water level therein—with the suction of the said water-extraction pump, this pipe serving as means for to-and-fro movement of feed water between the said reservoir and the suction of the said pump, a float in the said reservoir, a pipe connecting the said condenser with the said reserve feed tank, a valve on this last-mentioned pipe, and mechanism whereby the said valve is controlled by the said float so as to be closed with a high position of the float and opened by a fall of the float.

1,749,708. BED DAVENPORT. EMIL LEVY, Lima, Ohio. Filed Aug. 20, 1928. Serial No. 300,931. 1 Claim. (Cl. 5—12.)



In a bed davenport, a back, sides, having rigid arms, a folding spring structure normally confined between said sides below the arms, removable filler blocks normally overlying the folding spring structure at the ends thereof, removable cushions normally disposed on the folding spring structure between the filler blocks, and means for rigidly connecting the filler blocks with the arms to normally hold the folding spring structure in position positively against rising movement.

1,749,709. SANDPAPERING MACHINE. HAROLD A. LOVELAND, Honolulu, Territory of Hawaii. Filed Jan. 7, 1929. Serial No. 331,974. 2 Claims. (Cl. 51—197.)



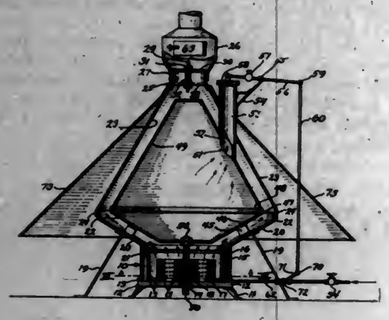
1. In a machine of the character described, a head, a flexible abrasive disk of relatively large diameter mounted thereon and having its abrasive surface disposed beyond the transverse plane of the outer end of the head, a tension pad mounted upon the head behind the disk to yieldingly force the latter into engagement with the work, a locking ring removably mounted upon the outer end of the head for engagement by the disk, a compression ring mounted upon the head and bearing upon the tension pad to force the disk beyond the outer face of the locking ring, and means to force the compression ring into position.

1,749,710. CHICKEN-BROODER STOVE. LOUIS MADALENA, New York, N. Y. Filed May 1, 1929. Serial No. 359,505. 8 Claims. (Cl. 126—98.)

1. A chicken brooder stove comprising in combination a burner, a fuel supply line for said burner, an air

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chamber above the burner, a second chamber surrounding said air chamber and communicating with the burner and the atmosphere so as to permit the escape of smoke



and the like from the burner, and means operated by the expansion of the air in the air chamber to control the supply of fuel to the burner.

1,749,711. RAFT OR BOAT. HERMANN MEYER, Berlin, Germany. Filed Sept. 26, 1927, Serial No. 222,063, and in Germany Oct. 11, 1926. 9 Claims. (Cl. 9—2.)



1. A raft of the class described, having an inflatable surrounding shell constituting the hull and provided with a plurality of spaced transverse walls dividing the shell into float compartments and inflating means for said compartments including a tube arranged on the surface of the shell, fixedly connected thereto at a point opposite each compartment and disconnected from and free to pass over such surface at points between each two compartments.

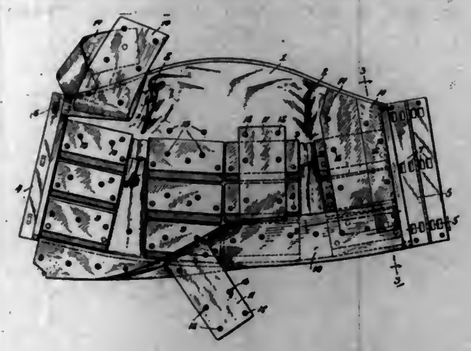
1,749,712. PROCESS FOR AUTOGENOUS WELDING OF MAGNESIUM AND ITS ALLOYS. GILBERT MICHEL, Bagneux, France, assignor to Hart O. Berg, Paris, France. Filed Feb. 5, 1925, Serial No. 7,158, and in France Dec. 23, 1924. 15 Claims. (Cl. 148—26.)

1. A process of welding magnesium and its alloys, consisting in heating the parts to be welded to a welding temperature, applying to the heated parts substances of the general character of those used in the autogenous welding of aluminum, and also a fluoride which acts as both a flux and dechlorinating agent, together with a substance acting as a reducing agent.

1,749,713. PROCESS FOR THE PROTECTION OF READILY-OXIDIZABLE METALS. GILBERT MICHEL, Bagneux, France, assignor to Hart O. Berg, Paris, France. Filed Aug. 13, 1925, Serial No. 50,140, and in France Mar. 20, 1925. 6 Claims. (Cl. 148—6.)

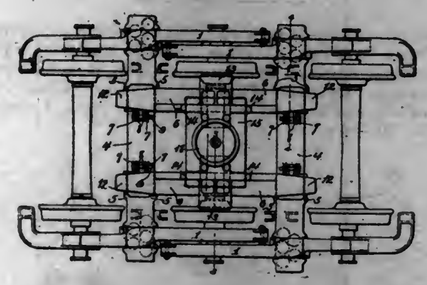
1. Process for the protection of objects made of readily oxidizable light metal containing magnesium, which comprises applying upon the surface thereof, a substance containing a phenol as a major component, which phenol is capable of readily reacting with magnesium to form a closely adherent protective layer on the surface of said article.

1,749,714. PROTECTIVE GARMENT. HERMAN A. NORTH, Bogota, N. J. Filed Nov. 15, 1928. Serial No. 319,669. 8 Claims. (Cl. 2—102.)



1. A protective garment having compartments or pockets on its inner face, a covering flap extending upwardly from the bottom of the garment and removably connected to the inner face of the garment over certain of the compartments or pockets, and strips on said flaps extending upwardly and removably connected to other of said compartments or pockets and to the garment.

1,749,715. SIX-WHEEL-TRUCK CONSTRUCTION. CLAUDE L. ORR, Columbus, Ohio, assignor to The Buckeye Steel Casting Company, Columbus, Ohio. Filed Aug. 24, 1928. Serial No. 301,863. 7 Claims. (Cl. 105—195.)

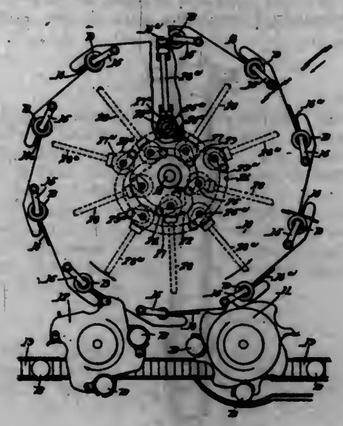


1. In a six-wheel truck, the combination of two transverse bolsters, two longitudinal bolsters mounted at their ends on the transverse bolsters, each longitudinal bolster having a medial recess in one side thereof forming a supporting shelf, the free ends of main bolster being carried by said shelves and extending only partially through the longitudinal bolsters.

1,749,716. LABEL GRIPPER FOR DUPLEX LABELING MACHINES. CHARLES H. OSLUND, Worcester, Mass., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 23, 1929. Serial No. 342,017. 8 Claims. (Cl. 216—13.)

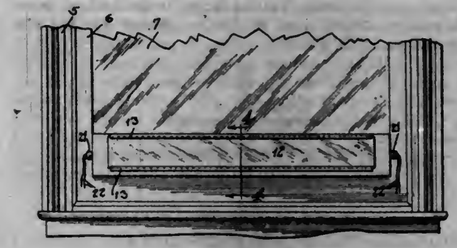
1. In a labeling machine, the combination with a rotary table and a series of means on the table for clamping the articles to be labeled, of two series of label grippers arranged on the table in alternate relationship, a central vertical shaft on which the table is mounted, a pair of

cams located in horizontal position around the shaft, one entirely inside the other, said cams having horizontal top



faces each provided with an open top cam groove and means connected with said cam grooves for operating the label grippers.

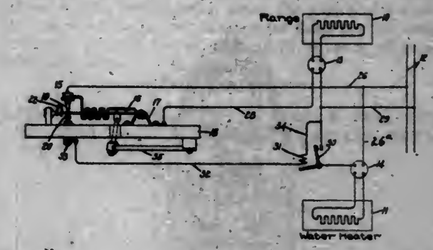
1,749,717. FLYTRAP. GEORGE PALMOS, Sacramento, Calif. Filed Jan. 17, 1929. Serial No. 333,121. 4 Claims. (Cl. 43—119.)



1. In a device of the character described, a box like structure, including top, bottom and end walls, a transparent plate slidably mounted between the top and bottom walls, forming the front wall of the box like structure, a pair of longitudinal strips mounted in spaced relation on the opposite side of said box like structure, one of said longitudinal strips having a longitudinal flange extending interiorly into the box like structure, whereby a baffle plate is formed to prevent the escape of insects from the interior of the box like structure, and illuminating means mounted in the box like structure for attracting flies and insects to the opening formed by the spaced longitudinal strips.

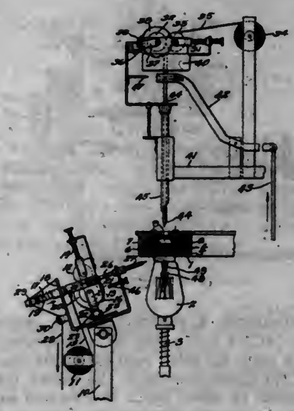
1,749,718. ELECTRIC SUPPLY SYSTEM. CHARLES P. RANDOLPH, Oak Park, and FRANCIS H. MCCORMICK, Glen Ellyn, Ill., assignors to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Dec. 18, 1926. Serial No. 154,374. 16 Claims. (Cl. 219—20.)

1. A system of control for a plurality of electrical devices constituting primary and secondary loads, comprising a thermostatic control device responsive to the amount of said primary load, and connections whereby said thermostatic control device reduces said secondary load when



said primary load exceeds a predetermined amount and reconnects said secondary load when said primary load is less than a predetermined amount.

1,749,719. ELECTRIC SOLDERING MACHINE. CASPAR REITER, Berlin-Treptow, and MAX STIGER, Berlin-Baumschulenweg, Germany, assignors to General Electric Company, a Corporation of New York. Filed Dec. 5, 1923, Serial No. 678,756, and in Germany Jan. 5, 1923. Renewed Dec. 24, 1928. 11 Claims. (Cl. 219—12.)

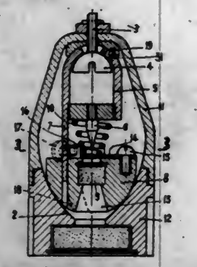


1. In a soldering machine for soldering a wire to a base terminal of a device comprising a glass vessel having a base with a metal terminal, the combination of a socket for receiving the base of said device to hold it with said terminal exposed and said wire adjoining said terminal, and means associated with said socket to electrically heat said base terminal, a solder feed device for feeding unmolten solder to said heated base at said exposed junction and actuating means for actuating said feed device while said terminal is hot.

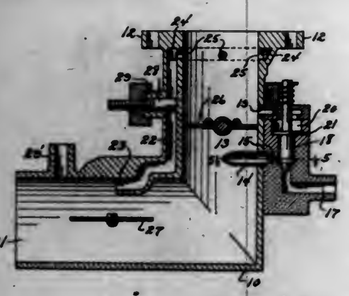
1,749,720. IMPACT IGNITION DEVICE. GREGORIO SCAGLIA, Turin, Italy, assignor to Societa Italiana Ernesto Breda, Milan, Italy, a Company of Italy. Filed May 23, 1927, Serial No. 193,590, and in Germany June 4, 1926. 13 Claims. (Cl. 102—39.)

1. An impact ignition device comprising a striker, a member carrying said striker, a primer, a second member carrying said primer, means interconnecting said members for respective movement with said striker and primer in aligned position, a supporting means for said members, means connecting one of said members with said supporting part for oscillatory motion with respect thereto, with freedom of oscillatory motion with respect

to said part, and means on said supporting part for effecting movement of the other one of said members to approach the first mentioned member on said interconnected members being displaced from their central position with respect to said supporting part, said first mentioned member being of less weight than the other one of said members.



1,749,721. CARBURETOR. JOSEPH STERBA, South Prairie, Wash. Filed Aug. 13, 1928. Serial No. 299,844. 2 Claims. (Cl. 261—46.)



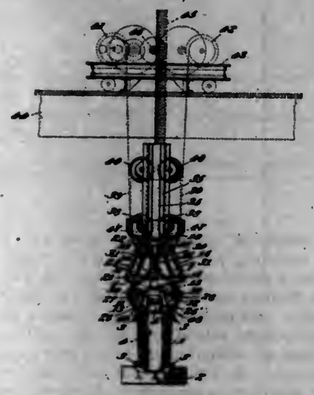
1. In a carburetor, a casing having a passage therethrough, open at its outer end for the admission of air and defining a main air inlet, said casing having its inner end adapted for connection with the intake manifold of an engine, means to admit liquid fuel to said passage for mixture with air passing through the passage, a throttle valve to control the feed of said mixture to the engine, means within the casing to provide an auxiliary air passage having its outer end opening into the outer end of the casing and its inner end opening into the inner end of the casing and beyond the throttle valve, and a valve positioned to close both the main and auxiliary air passages.

1,749,722. SUCKER-ROD ROTATOR. CLYDE STEVENS, Cotton Valley, La. Filed July 12, 1929. Serial No. 377,854. 2 Claims. (Cl. 74—14.)

1. In combination with the beam and sucker rods of a well device, means whereby the strokes of the beam will impart a continuous rotary movement in the same direction to the rods, such means comprising a barrel having upper and lower diagonally arranged slots therein, a collar having rolls thereon engaging each slot, a piston member vertically movable in the barrel, means for connecting the lower end of the member to the sucker rods, means for connecting the upper end of the barrel to the beam, a pair of collars fastened to the piston member, one collar of the pair being arranged adjacent a collar of the other pair, said collars having intermeshing teeth thereon, the teeth of the upper pair extending in an opposite direction from the teeth of the lower pair, a spring engaging the upper collar which is fastened to the piston member and resting in the barrel whereby on the upward stroke of the beam, the weight of the rods and fluid will contract the spring and cause it to move the lower pair of collars into mesh and to cause the lower collar to move downwardly through the slots, thereby giving the piston member a turning movement, and on the down stroke the spring will be relieved of the weight of the rods and fluid so that it will move the upper pair of collars into mesh and move the upper collar upwardly through its slots to again rotate the piston member and the rods.



1,749,723. INGOT STRIPPER. RICHARD H. STEVENS, Westmont Borough, Pa., assignor to Bethlehem Steel Company. Filed Aug. 23, 1928. Serial No. 301,471. 29 Claims. (Cl. 22—95.)

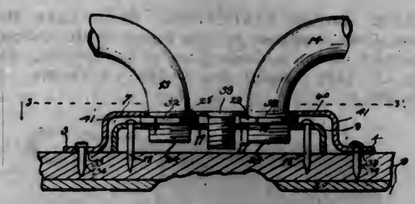


18. In an ingot stripping machine, the combination with a ram, a reciprocating cradle mounted thereon, tongs comprising two pairs of oppositely opposed bell-crank main levers each having a comparatively long horizontal arm and a short vertical arm arranged to have their lower ends contact with the top of a mold, thimbles for spacing the bell-crank main levers apart, cheek-plates for connecting the two pairs of bell-crank main levers together and adapted to form a fulcrum therefor at the point of juncture between the horizontal and vertical arms around which the arms are rocked, links connecting the outer ends of the bell-crank main levers with the cradle, an auxiliary lever pivoted between each of the vertical short arms of the bell-crank main levers below their pivotal point and adapted to form a fulcrum therefor around which the said auxiliary arms may rock, ingot gripping bits formed on the inner ends of the auxiliary levers adapted to engage the ingot, link connections between the outer ends of the auxiliary levers and the ram, and means for raising the ram and cradles thereby exerting a downward pressure on the top of the mold and an upward force on the ingot.

1,749,724. PROCESS FOR TANNING HIDES AND SKINS. EDMUND GEORG STIASNY, Darmstadt, Germany, and BENZION JALOWZER, Paris, France. Filed Jan. 3, 1927, Serial No. 158,814, and in Germany Nov. 30, 1925. 14 Claims. (Cl. 149—5.)

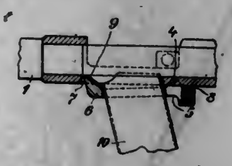
13. The process of tanning hides and skins, which comprises treating the material to be tanned with a bath comprising substances capable of forming complex ferric-sulphite compounds, containing several aliphatic carboxylic acid radicles.

1,749,725. CONDUIT SUPPORT. ALBERT UHL and PETER E. BAICKIE, Chicago, Ill. Filed Mar. 10, 1924. Serial No. 698,080. 16 Claims. (Cl. 247—21.)



7. The combination with an outlet box resting upon a concrete form member, of wire ducts extending into the box through the upper wall of the outlet box, each duct having a projection engaging the top of the said upper wall, a single rigid retaining member extending over the top of the outlet box between the ducts and engaging the upper faces of all of the said projections, and fastening members driven vertically downward through spaced portions of the retaining member and into the form member for securing the retaining member in its said disposition with respect to the said projections.

1,749,726. CARTRIDGE GUIDE FOR REPEATING GUNS. RUDOLF VON FROMMER, Budapest, Hungary. Filed Aug. 14, 1928, Serial No. 299,627, and in Hungary Aug. 24, 1927. 2 Claims. (Cl. 42—16.)



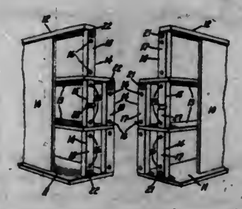
1. In a magazine fire arm, a breech casing, a breech movable in said casing, an elongated opening in the base of said casing, a cartridge magazine insertible in said opening from beneath the casing, a lever pivotally mounted on the under side of said casing adjacent its tail end and adjacent the rear end of said breech casing opening, said lever having a head portion positioned to enter the forward end of said opening and having an upwardly sloping cartridge guiding face, said head and tail portions being positioned at and beyond the opposite ends of said magazine and being connected by a laterally offset body portion positioned at and outwardly of one side of said magazine and providing with said head and tail portions a channel through which the upper end of said magazine is freely insertible to extend into said breech casing opening, and a spring acting downwardly upon the tail portion of said lever and normally maintaining its head portion extended upwardly in said breech opening in advance of said cartridge magazine.

1,749,727. LUBRICANT GUN. OSCAR U. ZERK, Chicago, Ill. Filed Nov. 27, 1929. Serial No. 410,216. 22 Claims. (Cl. 221—47.4.)



1. In a lubricant gun discharge nozzle, a nose, provided with a spherical socket, a nozzle piece, a spherical knob thereon universally oscillatable in the socket, a conduit through the nose and nozzle piece at all oscillated relative positions, the conduit including a tubular resilient coupling connecting the nose and nozzle piece.

1,749,728. SPLIT FRAME FOR DYNAMO-ELECTRIC MACHINES AND METHOD OF MAKING THE SAME. ALEXANDER P. WOOD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 7, 1928. Serial No. 268,336. 9 Claims. (Cl. 171—252.)

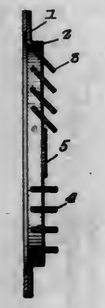


1. A split frame for dynamo-electric machines comprising a plurality of sectors having their ends spaced apart, and means forming a joint connecting said sectors including pairs of members separably secured together and having means for retaining them in a predetermined relation to each other when they are secured together.

1,749,729. ANTIGLARE DEVICE. ROY ZIGLER, Plymouth, Ohio. Filed Dec. 10, 1928. Serial No. 324,997. 1 Claim. (Cl. 240—48.4.)

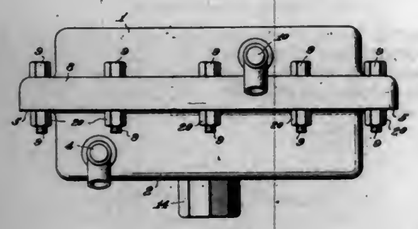
A device of the class described comprising a ring-shaped supporting member, a transversely arranged strip of con-

siderable width extending across the central part of the opening and having its ends connected with the ring-shaped member, a number of diagonally arranged strips extending across the top part of the opening and sloping downwardly and outwardly and having their ends connected



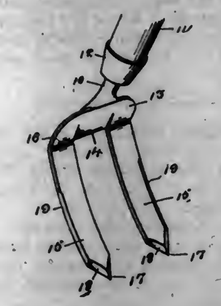
with the supporting member and a plurality of horizontally arranged strips extending across the lower part of the opening and having their ends connected with the supporting member all of said strips being formed of opaque material and spaced apart.

1,749,730. FILTER DEVICE. FRANCIS L. M. KENNEY, Los Angeles, Calif. Filed June 22, 1928. Serial No. 287,433. 16 Claims. (Cl. 210—185.)



1. In a filter, a filter container divided into two major parts an upper part and a lower part, the upper part carrying a skirted flange on its lower marginal rim and the lower part carrying a flange on its upper marginal rim with suitable means for detachably associating said upper and lower parts together, an opening in lower part of container for ingress of liquid and another opening therein with faucet means for egress of non-filtered liquid and an opening in top part of container with adjustable faucet means therein for egress of filtered liquid, a filter element composed of porous material supported by grated metal means with gaskets intervening between filter element and container flanges and means for detachably securing filter element in place to and between upper and lower parts of container, detachable means for breaking force of liquid entering container and for spreading same over filter element and threaded means for associating filter with a supply line.

1,749,731. CULTIVATOR. HENRY MEHLIG, Corvallis, Oreg. Filed Apr. 9, 1928. Serial No. 268,740. 2 Claims. (Cl. 97—63.)



1. A cultivator comprising a plate member, tines carried by and offset therefrom and the outermost portions of the plate between the tines and the extremities of the tines being sharpened to effect penetration of the ground.

1,749,732. BRUSH STRUCTURE. HENRY CAVE, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 1, 1926. Serial No. 85,108. 4 Claims. (Cl. 15—205.)



1. A brush structure including a channel-strip having sides forming a constricted mouth, and bristles secured and crossed within the channel and projecting through said mouth, the sides of said channel outside of and adjacent said mouth being flared outwardly to form a side support for bristles extending from the opposite side of the channel strip.

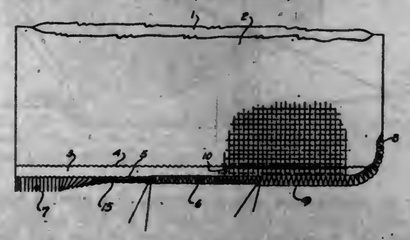
1,749,733. CORNER BRUSH. HENRY CAVE, Hartford, and CURTISS F. SMITH, West Hartford, Conn., assignors to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 13, 1927. Serial No. 239,787. 4 Claims. (Cl. 15—160.)



1. A corner brush including a head formed from a single strip of metal of trough shape with bristles tightly secured

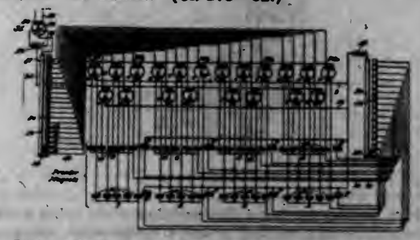
therein, said head being "doubled" by a sharp bend at its outer end to form independent sides located close together, and a handle to which the ends of said sides are connected.

1,749,734. NETTED-CORD-FABRIC BAG. TIMOTHY J. KELLY, Passaic, N. J., assignor to Brighton Mills, a Corporation of New Jersey. Filed Mar. 28, 1928. Serial No. 265,442. 4 Claims. (Cl. 150—1.)



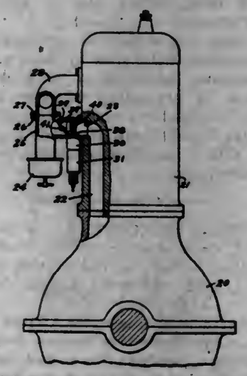
1. A tubular netted laundry bag having its closed end overcast, a line of stitching spaced from the overcast closure and the loose cord ends turned down into a dense compact edge within said overcast stitching.

1,749,735. MULTIPLEX TELEGRAPH SYSTEM. HAKON H. HAGLUND, Flushing, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed June 22, 1927. Serial No. 200,686. 32 Claims. (Cl. 178—52.)



1. The method of operating a telegraph distributor which comprises associating the segments thereof with one set of printer magnets during a rotation thereof and with another set of magnets during the succeeding rotation thereof.

1,749,736. COINCIDENTAL LOCK. EDWARD V. RIPPINGILLE, Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 29, 1927. Serial No. 216,120. 8 Claims. (Cl. 70—90.)



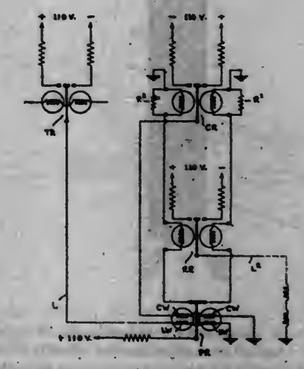
1. A control device for an internal combustion engine having a cylinder block and crank-case, the cylinder block being provided with a passage communicating with the crank-case; a carburetor having a fuel mixture passage communicating with the combustion chamber of the engine; a by-pass providing communication between the fuel mixture and cylinder block passages; a throttle in said by-pass and a key controlled member for operating said throttle to control the operativeness of the engine.

1,749,737. FLOOR BRUSH. HENRY CAVE, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 29, 1927. Serial No. 216,099. 4 Claims. (Cl. 15—205.)



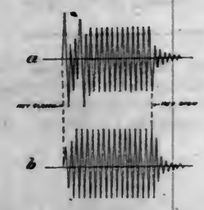
1. A brush including a frame formed of a plurality of frame members, one located within the other and each comprising an independent unit with brush material secured therein and projecting in one direction therefrom, spacers extending across said members and secured thereto to hold them in spaced relation, said spacers being mounted and located widely apart to provide substantially open frame work of said units and means for securing the handle to the back of said frame.

1,749,738. AUTOMATIC STROKE-CORRECTOR CIRCUIT. ALFRED J. FINN, Bloomfield, N. J., and PERCY L. MYER, Ozone Park, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 307,039. 8 Claims. (Cl. 178—70.)



1. In a signaling system employing alternating current of a definite periodicity and subject to disturbing currents, the method of correcting the received signal for bias and other disturbing conditions, which consists in, receiving the transmitted signals, repeating the received signals to a repeating device, retarding the operation of the repeating device by substantially one-half the period of the alternating current, and supplying the signal from said repeating device to the receiving relay, whereby said relay is operated by the conjoint action of the received signal and the repeated delayed signal.

1,749,739. CARRIER-WAVE TELEGRAPHIC TRANSMISSION SYSTEM. WILLIAM G. FLUHARTY, Rockville Center, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Apr. 2, 1928. Serial No. 266,654. 12 Claims. (Cl. 178—66.)



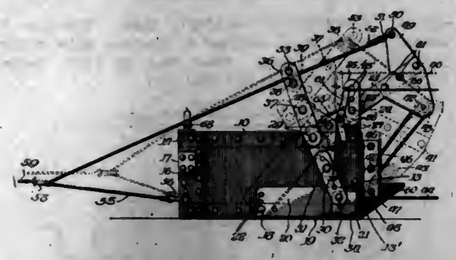
1. A signal transmission system comprising an electric discharge relay having a cathode, an anode and a control electrode, a source of space current for said relay, an input circuit, a source of carrier waves to be repeated connected to the input circuit, a source of biasing potential for normally biasing the control electrode at such potential that the carrier waves are not effectively repeated by the relay, means for abruptly changing the potential of the biasing source in accordance with telegraphic signals to render said relay operative, and means for gradually changing the potential of the control electrode in response to the abrupt changes of the biasing source voltage.

1,749,740. INSULATED CONDUCTOR. OTTO A. FREDERICKSON, Wethersfield, Conn., assignor to The Wiremold Company, Hartford, Conn., a Corporation of Connecticut. Filed June 10, 1926. Serial No. 115,012. 1 Claim. (Cl. 173—264.)



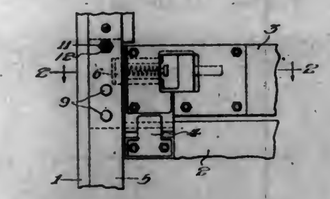
An article of manufacture comprising, in combination, an electrical conductor, a surrounding sheath of insulating material, a protecting jacket formed about said sheath and comprising an open tubular braid of light weight formed of a series of paraffin treated, twisted strands of paper that extend spirally about said sheath in one direction in spaced relation to each other and interbraided with a series of paraffin treated, twisted strands of paper that extend spirally about the sheath in the opposite direction in spaced relation to each other to form a tough, durable, open braid produced entirely of paper and having relatively large interstices between the strands, and a filling compound deposited in the interstices to form a wall of insulation compound surrounding said sheath and which is protected from mechanical injury by the open braid.

1,749,741. SCRAPER. LESLIE P. GREEN, Chicago, Ill., assignor, by mesne assignments, to Ira J. Wilson, Winnetka, Ill. Filed May 10, 1926. Serial No. 107,878. 19 Claims. (Cl. 37—147.)



1. In combination with a scraper, of a pivoted bottom for said scraper, a lever fulcrumed on said scraper and operatively connected to said pivoted bottom, and means connected with said scraper and operatively connected with said lever for actuating said lever to tilt said bottom about its pivot for dumping the contents of said scraper.

1,749,742. ADJUSTABLE-CATCH KEEPER. JULIUS MAKI, Chicago, Ill., assignor to The Whelco Engineering & Manufacturing Company, a Corporation of Illinois. Filed Jan. 9, 1929. Serial No. 331,382. 2 Claims. (Cl. 292—340.)



1. A member having a door opening, there being a catch-receiving pocket in said member beside said opening, a stationary piece on said member above said pocket, a keeper in the form of a spring plate underlying said stationary piece and fixed thereto at one end, the free end of said plate extending across said pocket, and a set screw extending through said stationary piece above the free end of said plate.

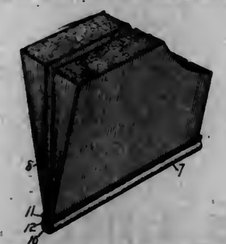
1,749,743. LINER AND METHOD OF TREATING THE SAME. LORIN B. SEBRELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 6, 1927. Serial No. 181,605. 7 Claims. (Cl. 154—2.)

1. A unit consisting of plies of unvulcanized rubberized material alternating with plies of liner material treated with nitro cellulose containing an ester of phthalic acid.

6. A method of preventing adhesion between superposed plies of unvulcanized rubber compounds which comprises disposing therebetween sheets of fabric which have been coated with nitro-cellulose containing an aliphatic ester of phthalic acid.

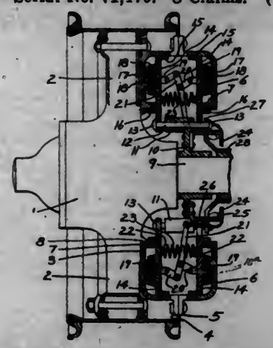
1,749,744. BRUSH STRUCTURE. JOHN J. THACHER, Wethersfield, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 1, 1926. Serial No. 85,086. 12 Claims. (Cl. 15—205.)

1. A brush structure comprising a sheet metal channel strip, a core strip separately formed from the channel strip and having a beaded edge spaced between the side edges of the channel strip, bristles substantially filling the channel strip and arranged on opposite sides of the core strip and spacing its beaded edge from said side edges, the sides of said channel strip being permanently set



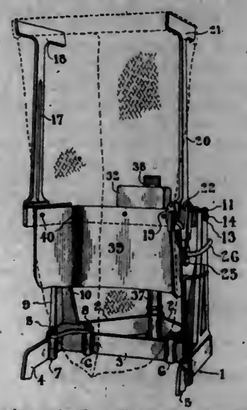
under pressure to bind the bristles against said core strip whereby the beaded edge of the latter spreads the bristles bound by the channel strip.

1,749,745. BRAKE DRUM. GEORGE WALTHER, near Dayton, Ohio, assignor to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 25, 1925. Serial No. 71,470. 8 Claims. (Cl. 188—72.)



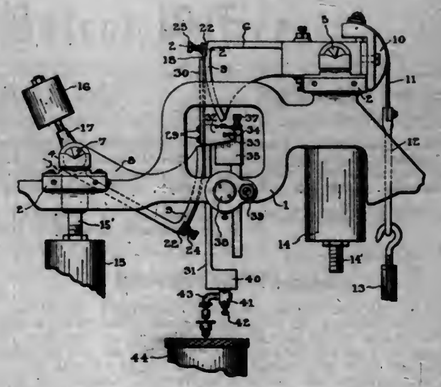
1. A device of the type described, comprising a drum attachable to a vehicle wheel and formed of two separable sections, each of which has a grooved inner side portion, and a pair of braking members formed with annular projections for entrance into the grooved portions of the drum when said members are moved apart, for the purpose specified.

1,749,746. LAUNDRY-BAG SCALE. GULDBRAND GULDBRANDSEN, Louisville, Ky., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed July 19, 1927. Serial No. 206,846. 14 Claims. (Cl. 265—51.)



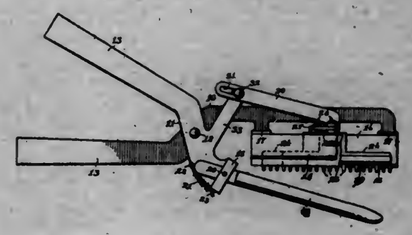
1. In a device of the character described, a lever, means on said lever adapted to normally hold a bag open, and means actuated by said lever for releasing said holding means when a predetermined quantity of goods is deposited therein.

1,749,747. AUTOMATIC SCALE. HARLAN A. HADLEY, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed Apr. 30, 1927. Serial No. 187,881. 24 Claims. (Cl. 265—62.)



1. In a scale, the combination with a counterbalancing means, of a tape pivotally connected thereto, a rack bar mounted on said tape, and guiding means for said rack bar.

1,749,748. HAIR-WAVING DEVICE. MARTHA A. TIBNKEN, New York, N. Y. Filed Mar. 5, 1929. Serial No. 344,464. 5 Claims. (Cl. 132—82.)



5. A hair waving device comprising a pair of handle members pivotally connected together, a group of waving members rigidly connected with one of said handle members side by side, a second group of waving members pivotally connected with the other handle member side by side, one group of waving members cooperating with the other group of waving members to wave the hair, when brought into clamping engagement therewith, by actuating said handle members, and contractile springs respectively acting on said pivoted waving members, and having a normal tendency to hold them so disposed that one end of each member will cooperate with its related members of the other group when engaged with the hair, to cause pivotal movement thereof into full clamping relation to said related waving members in response to the movement of said handle members.

Patents Nos. 1,749,749 to 1,750,616

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T. M. Renewals	30		
Labels	35	No. 37,194 to No.	37,228, inclusive.
Prints	26	No. 12,424 to No.	12,449, inclusive.
Reissues	2	No. 17,630 to No.	17,631, inclusive.
Designs	51	No. 30,666 to No.	30,716, inclusive.
Patents	868	No. 1,749,749 to No.	1,750,616, inclusive.
Total	1,430		

NOTICE

COPYING CLAIMS FROM PATENTS

Counsel prosecuting applications for patents are advised that in presenting any claim or claims copied or substantially copied from a previously issued patent there must be added a clear statement setting forth the origin of the claim or claims and the identifying data of the patent, since otherwise counsel may be deemed to be seeking, obviously improperly, to obtain a claim or claims to which the applicant is not entitled under the law without an interference, or the Examiner may be led into making an action different from what he would have made had he been in possession of all the facts. Examiners are directed to promptly call the personal attention of the Commissioner to any failure of counsel to follow the above indicated procedure.

THOMAS E. ROBERTSON,
Commissioner.

Adjudicated Patents

(C. C. A. N. Y.) Claude patent, No. 1,125,476, for system of illuminating by luminescent tubes, *Held* not infringed. *Claude Neon Lights* v. *B. Mechlett & Son*, 36 F. (2d) 574.

Interviews with Examiners

RULE 13. Interviews with Examiners concerning applications and other matters pending before the Office must be had in the Examiners' rooms at such times, within office hours, as the respective Examiners may designate; in the absence of the Primary Examiners, with the assistant in charge. Interviews will not be permitted at any other time or place without the written authority of the Commissioner. Interviews for the discussion of pending applications will not be had prior to the first official action thereon.

Disclaimers

1,696,875.—*Laurits W. Andersen*, Waterbury, Conn. CLINCH COLLAR FOR SHADES. Patent dated December 25, 1928. Disclaimer filed February 19, 1930, by the *patentee.*

Hereby enters this disclaimer to that part of the claims in said specification which is in the following words, to wit:

"3. In a device of the kind described, the combination with a shade, of a metallic ring fitted in the top opening of said shade, said ring comprising an outwardly extending flange adapted to engage the exterior face of the shade, an inwardly projecting flange and a plurality of integral bendable tongues adapted to be bent into engagement with the interior of the shade, a fiber ring held within the metallic ring and resting upon the inwardly projecting ring and an electric lamp having its threaded end passing through said rings, the fiber ring contacting with said electric lamp.

"4. The combination with a lipless shade, of a metallic collar adapted to engage the exterior of said shade, an insulating ring held in wedging engagement with said collar, said ring having a radial notch, said collar also having bendable tongues for engagement with the interior of said shade."

1,184,979.—*Henry C. Miller*, Milwaukee, Wis. FLEXIBLE BINDER POST FOR LOOSE-LEAF BINDERS. Patent dated May 30, 1916. Disclaimer filed February 24, 1930, by the assignee, *Stationers Loose Leaf Company.*

Hereby enters this disclaimer as follows:

Hereby disclaims from the scope of claim 3 any structure except when the post members are cylindrical in form and comprised of links so as to permit them to be flexed sufficiently sharp to make the right angle turn described within the hollow binder head.

Hereby disclaims from the scope of claim 5 any structure except when the flexible post members are cylindrical in form and comprised of links so as to permit them to be flexed sufficiently sharp to make the right angle turn described within the hollow binder head and are connected with the first binder head set forth by headed securing members screw connected axially to the flexible posts.

Condition of Applications Under Examination at Close of Business February 28, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,826; Trade-Mark Division, 1,491. Oldest new case, Apr. 27, 1929; oldest amended, Apr. 27, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	June 24	July 13	1,359
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	June 7	June 16	2,042
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	June 6	Sept. 11	1,593
234	4. MERRITT, A. D., Conveyors; Hoists; Handling Apparatus; Excavating	July 20	July 18	1,278
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	May 20	May 28	1,599
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	Apr. 27	Apr. 27	3,225
105	7. JARBOE, C. G., Optics; Photography	May 14	May 11	2,515
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	June 10	Aug. 20	1,552
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Aug. 7	Aug. 7	1,635
118	10. HUNTER, O. P., Land Vehicles—Animal Draft Appliances, Bodies and Tops	June 15	July 1	1,771
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Sept. 17	Oct. 4	932
280	12. PIERCE, P. P., Machine Elements	Aug. 2	July 8	1,483
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling	May 22	June 11	1,635
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	May 18	May 22	1,469
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	May 6	May 6	2,985
242*	16. SPENCER, C. J., Telegraphy; Telephony	June 5	Aug. 5	1,251
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 3	June 17	1,644
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	July 1	July 3	1,490
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	May 25	May 28	2,122
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	July 1	July 9	1,616
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 3	Sept. 11	879
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	June 30	July 30	1,674
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	May 2	May 13	1,226
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 3	May 14	1,284
302*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	June 10	June 16	1,611
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	May 22	June 17	1,246
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 20	May 20	1,602
225	28. BENSON, A. R., Internal-Combustion Engines	July 1	July 2	2,078
100*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Sept. 5	Sept. 9	798
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	June 1	Nov. 11	1,263
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	June 12	June 17	2,575
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	July 25	July 25	1,815
182	33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 16	May 15	2,623
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 22	July 6	1,151
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Aug. 21	Sept. 5	1,901
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	June 11	June 20	2,308
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 23	May 22	2,231
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	May 6	May 6	2,106
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 8	May 8	2,063
202*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	May 15	Aug. 6	3,046
126	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	June 19	July 2	1,407
228*	42. CUTTING, H. C., Electric Signaling	July 22	Aug. 8	1,624
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	May 8	May 9	2,440
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	May 2	May 7	2,385
279	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	May 8	May 16	2,521
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	June 28	July 5	1,730
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	May 1	June 8	2,616
212*	48. ROEPKE, O. B., Electricity, General Applications	June 6	June 8	1,413
289	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Aug. 12	Aug. 19	1,213
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	May 23	June 1	2,954
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	June 5	June 5	2,367
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	July 8	July 8	2,536
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 12	Sept. 16	1,345
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	May 27	May 27	2,768
102	55. BOWEN, S. T., Bread, Pastry, and Confection Making; Cutlery	†Jan. 30	†Feb. 15	425
	Designs	Oct. 18	Oct. 18	477
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	May 21	June 1	2,387
267*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 22	June 17	1,275
270*	58. DOWELL, E. F., Abrading; Typewriting	May 5	May 5	1,456
315	59. RICHARD, V. L., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	May 21	May 21	2,914
218*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	May 27	May 27	2,209
209	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	May 6	May 15	2,546
248*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	June 5	June 19	2,772
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND.. Trade-Marks	†Jan. 25	†Feb. 17	1,377
	Labels and Prints	†Feb. 12	†Feb. 14	114

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

BEIDLER *v.* CAPS AND LEININGER

No. 2,156. Decided December 19, 1929

1. INTERFERENCE—PRIORITY—DILIGENCE.

Evidence reviewed and *Held* to establish that B., who was the first to conceive the invention but the last to reduce it to practice, was not exercising due diligence in so reducing it from the time that C. and L. entered the field and that priority was properly awarded to the latter.

2. SAME—SAME—SAME.

"It is well settled that there is no general rule of what constitutes diligence applicable to all cases. Due diligence is reasonable diligence, and that is to be determined by the particular facts of each case."

3. SAME—SAME—SAME.

Where the evidence shows that the delay in reducing an invention to practice was caused by mere business considerations, "it can not be held that such delay does not constitute evidence of lack of diligence."

APPEAL from the Patent Office. Affirmed.

Mr. Frank S. Appleton and *Mr. Charles J. Williamson* for Beidler.

Mr. Edward H. Cumpston for Caps and Leininger.

LENROOT, *J.*:

This is an appeal from a decision of the Commissioner of Patents in an interference proceeding, affirming the unanimous decisions of the lower tribunals of the Patent Office awarding priority of invention to the senior parties, Caps and Leininger, appellees herein.

The invention in controversy relates to photographing apparatus, and more specifically to a film-holding means which is capable of holding the film in the focal plane of said apparatus, and in so mounting the means as to permit its movement while in the camera to present the two sides of the film (sensitized on both sides) alternately to the light-admitting means of the camera.

The subject matter in issue is more particularly defined by the counts, which read as follows:

1. The combination with a camera body and a support for a sheet of double coated sensitive material in the focal plane thereof, of means for rotating said support within the camera body to present first one side and then the other side of the sensitive material to exposure.

2. In a camera having a chamber and a lens, a member for holding film in the focal plane of the lens, and means for mounting the holder for movement in situ whereby the sides of the film are successfully exposed to light admitted by the lens.

3. In a photographic camera, the combination with the casing and lens, of a frame mounted on the casing to rotate on an axis transverse to the optical axis of the lens, means carried by said frame for supplying photographic material, and means carried by said frame and projecting into the casing across the optical axis of the lens for reversibly positioning such photographic material in the focal plane of the lens.

The application of appellant was filed on April 4, 1924; appellees filed on May 25, 1923. Appellees therefore are the senior parties, and the burden was upon appellant to establish by a preponderance of evidence a date of conception prior to that of appellees, and a reduction to practice thereafter with reasonable diligence from on or about May 25, 1923, when appellees entered the field.

Both parties introduced testimony. All of the interference tribunals of the Patent Office united in finding the following: That appellant was the first to conceive and disclose but the last to reduce the invention to practice; that there was not the requisite proof of conception or reduction to practice by appellees prior to their filing date of May 25, 1923, and therefore said filing date must be held to be the date of conception and a constructive reduction to practice; that appellees actually reduced the invention to practice between September 20 and October 1, 1923; that appellant reduced the invention to practice in March, 1924; that appellant failed to exercise due diligence in reducing the invention to practice; that appellant failed to establish that he had disclosed the invention to the party Leininger, as charged, prior to appellees' date of conception; that appellees were joint inventors of the invention; that by reason of lack of due diligence upon the part of appellant in reducing the invention to practice priority should be awarded to appellees, the senior parties, although appellant's date of conception and disclosure was prior to that of appellees.

The findings of fact of the three tribunals of the Patent Office, being unanimous, will not be disturbed by this court unless manifestly wrong. *Leonard* v. *Everett*, 304 O. G. 232; 281 Fed. Rep. 594; 52 App. D. C. 90; *Greenawalt* v. *Dwight*, 266 O. G. 138; 49 App. D. C. 82. Under this rule we must accept the findings of the Patent Office that appellant did not disclose the invention to Leininger, and that appellees were joint inventors of the invention in issue, as set out in their application, for clearly the evidence and the law warranted such findings.

As to joint invention by appellees, the rule is that an application in due form, made by two persons claiming to be joint inventors, is prima facie evidence that they were such. *Lemp* v. *Randall*, 146 O. G. 255; 53 App. D. C. 430.

As to the alleged disclosure of the invention by appellant to Leininger, the evidence was sharply contradictory, and we find no ground upon which to hold that there was manifest error in finding that the alleged disclosure was not made.

Another contention of appellant is that the Commissioner erred in not finding that the invention in issue was known and discussed by the officials of the Cameragraph Company (a corporation of which appellees were employees, prior to its acquisition by the Photostat Corporation, of which appellees are now employees) prior to May 25, 1923, appellees' date of conception. The Commissioner held that the evidence did not support such a finding, and an examination of the record fully sustains the Commissioner in this respect. Furthermore,

it has been held that the question of whether a senior party to an interference may be entitled to priority as against all persons is not an issue in an interference proceeding, but the question is whether the junior applicant has sustained the burden of establishing his own priority over that of his opponent. *Prindle* v. *Brown*, 112 O. G. 957; 24 App. D. C. 114.

There are certain other errors alleged by appellant, which even if found by us to exist would not warrant a reversal of the decision of the Commissioner because such errors clearly did not affect the conclusion reached. The principal error of this character charged is a finding by the Commissioner that appellant was chargeable with diligence in reducing the invention to practice from the date of his conception thereof, whereas in law he was so chargeable only from the time that appellees entered the field, or from May 25, 1923. Appellant is correct in this, but we think it clear from the Commissioner's decision that he found there was lack of diligence by appellant from immediately prior to May 25, 1923, when his duty of diligence began to run. However this may be, we shall discuss the proof of diligence later.

Another error alleged by appellant is that the Commissioner found that appellant had actual knowledge of the law requiring diligence in reducing his invention to practice. It is immaterial whether he had such actual knowledge or not. Ignorance of the law would not affect the measure of diligence required.

Another error charged is that the Commissioner found that appellees conceived the invention on December 10, 1922. It is true that the Commissioner was in error in so holding, for there was no corroborative proof of such conception as the law requires, but the error was immaterial for it in no wise affected the conclusion reached, and the result would have been the same had be held, as did the other tribunals of the Patent Office, that the date of conception by appellees was May 25, 1923. We would further observe that we do not think the Commissioner intended to hold that there was a conception and disclosure by appellees in December, 1922.

This leaves but a single question remaining, and that is, did the appellant submit such proof of diligence in reducing the invention to practice that there was error on the part of the Commissioner in holding that he did not? The burden was upon appellant to show such diligence by a preponderance of evidence.

[1] Appellant is president of the Rectigraph Company, of Rochester, N. Y., and has for many years controlled its activities, giving to it his undivided attention. Said company has for over 20 years been engaged in the photocopying art. Appellant was a creator of this art and has had many patents issued to him relating to copying machines. He conceived and disclosed the invention here in issue in the fall of 1909, but did nothing toward reducing the same to practice until March, 1923. The Rectigraph Company, of which he was president and general manager, was engaged in the manufacture of photocopying machines of the simplex type, that is, photographing upon one side of the film only, and also in the manufacture of sensitized paper for use in photograph copying machines.

The evidence shows that for some time prior to February 1, 1923, the Rectigraph Company did not have a mechanical expert employed, but shortly before said date appellant made application to the Masonic Employment Bureau of Rochester for such an expert; that on February 1, 1923, upon the recommendation of said bureau, he employed one John A. Smith to take charge of the mechanical department of the Rectigraph factory and to build a number of machines, one of which was a machine embodying the invention here in issue, but did not at that time disclose to him the details of such a machine. He did, however, tell him that he would have to work on said machine as he found time, as there were other matters to be attended to first, particularly the building of a new coating machine, rewinding machine, rebuilding machine, and other apparatus which he named. The evidence further shows that about two weeks later appellant made a full disclosure to said Smith of the invention and gave him instructions as to its construction; that the first work that Smith did was to build a coating machine, which took about four months to complete; that about the 1st of April, 1923, Smith temporarily stopped work on the coating machine and built an experimental model of the machine here involved; that he finished the same during the said month of April and did nothing to it thereafter except to place some of the parts which were in the model in his finished machine. After finishing the coating machine Smith worked on a rewinding machine, and thereafter he built a number of machines, having no relation to the matter here in controversy. He completed said last-named machines about January 1, 1924. It does not appear that either appellant or Smith did anything toward reducing the invention to practice between May 23, 1923, the date of appellees' application, and January 1, 1924. On said last-named date the machine which constituted appellant's reduction to practice was started and it was completed in March following. That appellant was diligent from January 1, 1924, until the completion of the machine is established by the evidence.

The question therefore is: Does the evidence establish that there was reasonable diligence in reducing the invention to practice between May 25, 1923, and January 1, 1924, and that the Commissioner of Patents was manifestly wrong in finding lack of such diligence?

Appellant in his brief urges as a reason and excuse for his nonactivity between May 25, 1923, and January 1, 1924, that—

> Smith after building the parts, Beidler Exhibits Nos. 1 and 2, by March or April, 1923, was compelled to suspend work on the duplex machine to take up vitally urgent work on machines required in the Rectigraph plant for carrying on the regular business of the Rectigraph Company upon which its life depended. It was not until January, 1924, that this other urgent work was done and out of the way, and Smith was able to resume work in the completion of the machine, Beidler Exhibit No. 3.

Assuming without deciding that the doing of urgent and necessary work upon other machines in the Rectigraph plant, "upon which its life depended," would excuse nonactivity on the machine here involved between May 23, 1923, and January 1, 1924, if Smith, the mechanic, was the only person who could build the machines required for the operation of the factory, or who could be trusted with the building of the machine here involved, we would observe that there is no evidence tending to show that other mechanics could not have been employed to build the machines necessary for the Rectigraph factory, or that no other mechanic could be found who could be trusted with knowledge of appellant's invention and build it. It appears from the evidence that Smith was a skilled mechanic who, prior to his employment by Beidler, had been employed as an expert mechanic by a check writer concern, by a pump factory, and by an elevator works in the same capacity. It does not appear that he had ever had any experience in building photographic machines of any character. It does not appear, therefore, that Smith had any qualifications for the building of the machines referred to that any expert mechanic in general machine construction would not possess.

In order to warrant a finding of diligence under the facts in this case, it should appear at least that appellant made efforts to secure other mechanics to do the necessary work required by the factory, leaving Smith free to carry out appellant's invention by the construction of a machine with reasonable promptness after May 25, 1923. There is no such evidence in the case.

Were this invention intricate and complicated, requiring extraordinary skill in building a machine to reduce it to practice, and requiring study and continued thought in planning the building of it, a different situation might exist. But it was not such a machine. Appellant in his brief states:

> While the improvement is of great importance, the apparatus, especially as defined in the three counts of the interference, is exceedingly simple. It requires with a camera otherwise of old construction merely a rotatable holder for the double coated paper, so that a photograph being taken first on one side of the sheet, by turning the sheet through a half turn, the opposite side of the sheet may receive a photograph. In other words, instead of the nonrotatable paper holder of the old simplex machine, the paper holder is rotatable.

It is plain from this description that the work of constructing the machine to embody the ideas of the invention was of a character that could be performed by any skilled mechanic under the supervision of appellant, just as it was performed by Smith, but even had it been shown that one could not have been procured who could have been trusted not to disclose the invention to others until it had been reduced to practice, this would not excuse the delay of seven months between May 25, 1923, and January 1, 1924, when no work was done upon the machine, unless it was also shown that no mechanic could have been secured to perform the other work in the factory that Smith performed during that time. Of course, it was not necessary in order to constitute diligence that appellant or his mechanic should have been constantly at work upon the machine, but it was necessary that during that period some time should have been devoted to it, or a reason valid in law shown for not doing so. The fact that Smith alone could not have done the necessary work of the factory if he had devoted a part of the time between May 25, 1923, and January 1, 1924, to constructing the machine in question is not enough. There is no evidence that appellant had not ample means to employ other mechanics to work in the factory, or that they could not have been secured.

Appellant contends that the evidence in this case brings it within the rule laid down in *Courson* v. *O'Connor et al.*, 227 Fed. Rep. 890, and *Roe* v. *Hanson*, 90 O. G. 2550; 19 App. D. C. 559, and that under the decisions of these cases diligence has been shown by him in reducing this invention to practice.

In *Courson* v. *O'Connor et al.* there was involved the question of diligence upon the part of appellant in preparing and filing a patent application, his invention not having been actually reduced to practice. In its opinion the court said:

> In considering the question of diligence, the circumstances surrounding the inventor must be taken into account. Courson was at the head of a large and important shop, in charge of nearly 3,000 men. His time was not his own. Unless he gave up his position, he could ordinarily devote only his own, not his employer's, time to his inventions. He could go to Pittsburgh, not when he desired, but when the work at the shop made it convenient.

Here the personal attention of the inventor was necessary, and it was shown that he could not have devoted time belonging to his employer to his invention without endangering his employment and consequent loss of means of livelihood. Nothing of this character is involved in the case at bar. Appellant's entire difficulty was in the employment of a mechanic to construct a machine embodying his invention. As has been said, there is no evidence that a mechanic could not have been employed either to do the necessary work upon the machine in question or to do the other work in the factory that was performed by Smith, leaving him free to work upon said machine. There is no evidence or claim that appellant was so employed that he could not have supervised the work of the mechanic, had one been employed, upon the machine during the period in question. Furthermore, it may be noted that in the case above cited the only period during which diligence was involved was from November, 1908, the date of conception of the invention by his opponent, to January 19th, 1909, when the appellant executed his application, or a period of less than three months.

In *Roe* v. *Hanson*, *supra*, relied upon by appellant, his counsel in his brief states that the "court held Roe to be diligent though he was occupied at the time in the restoration of a mill for his company which had been destroyed in June of the previous year.'" An examination of the opinion in this case shows that the language quoted had nothing to do with the decision of the case. The statement was made as a reason why Roe had not made a commercial test of his invention, the Patent Office having held that the construction of the machine embodying the invention did not constitute a reduction to practice and that there was lack of diligence in testing the machine by commercial use after its construction. The court held that the construction

of the machine under the facts proved did establish a reduction to practice and reversed the Patent Office for that reason. Therefore, no question of diligence while Roe was building a mill for his company was involved.

[2] It is well settled that there is no general rule of what constitutes diligence applicable to all cases. Due diligence is reasonable diligence, and that is to be determined by the particular facts of each case. *Croskey* v. *Atterbury*, 76 O. G. 163; 9 App. D. C. 208.

[3] In the case at bar the evidence shows that the delay of appellant in reducing the invention to practice was caused by mere business considerations; therefore it can not be held that such delay does not constitute evidence of lack of diligence. *Paul* v. *Hess*, 115 O. G. 251; 24 App. D. C. 462; *Wickers* v. *McKee*, 129 O. G. 869; 29 App. D. C. 4.

We are entirely clear that the evidence does not disclose any valid reason for appellant's nonactivity in reducing the invention to practice from May 25, 1923, to January 1, 1924, and that the Commissioner and the other tribunals of the Patent Office were abundantly justified in finding that there was a lack of due diligence upon the part of appellant in reducing his invention to practice.

The decision of the Commissioner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

CLANCY *v.* DE JAHN

No. 2,172. Decided December 19, 1929

1. INTERFERENCE—PRIORITY—CONCURRENT DECISIONS OF PATENT OFFICE—WEIGHT OF.

"Unless material error is shown, the findings of fact of the three tribunals of the Patent Office, being unanimous, will not be disturbed by this court."

2. SAME—SAME—DILIGENCE.

Evidence reviewed and *Held* to establish that appellee, who was the first to conceive the invention, was diligent in reducing it to practice from April, 1921, when appellant entered the field, until August, 1921, when such reduction to practice was made.

APPEAL from the Patent Office. Affirmed.

Mr. Perley H. Plant for Clancy.

Mr. Hans V. Briesen for De Jahn.

LENROOT, *J.:*

This is an appeal from a decision of the Commissioner of Patents in an interference proceeding, in which priority of invention was awarded to appellee by all of the Interference tribunals of the Patent Office.

The invention in controversy is a process of purifying the nitrogen-hydrogen gas mixture in the synthetic production of ammonia. It is unnecessary to detail the various successive processes by which synthetic ammonia is produced. Most of them constitute what is known as the Haber process, for which a United States patent was granted in 1916. The gist of the invention here in issue consists broadly in passing the gases to be synthesized into contact with liquid anhydrous ammonia before said gases enter the catalyst chamber. This process is new and constitutes invention, each party hereto claiming to be the inventor and entitled to a patent thereon. An interference was duly declared by the Patent Office.

There are 18 counts in the interference, of which the following are typical:

2. In a process of purifying gases for use in the synthesis of ammonia the steps comprising, passing the elemental gases into contact with one or more agents for removing therefrom substances injuriously affecting an ammonia synthesis catalyst, and then passing the gases through substantially anhydrous liquid ammonia at a low temperature to remove traces of moisture therefrom prior to the effectuation of the synthesizing operation.

6. In conditioning gas to render it suitable for use in catalytic ammonia synthesis, that improvement which comprises bringing gas which is to participate in said synthesis into effective contact with liquefied ammonia.

15. The process of preparing a gas mixture containing nitrogen and hydrogen in the relation of 1:3, subjecting said mixture to pressure and under said pressure removing the major part of the constituents of the gases other than nitrogen and hydrogen, and then, while the gases still contain traces of water impurities and of carbon compound, but no ammonia catalytically produced from said gases, introducing said gases into the stream of gas which has passed through an ammonia catalyst, then passing the thus compounded mixed gases through an ammonia liquefier and leading the gases from said liquefier through the catalyst to produce the stream of catalyzed gases to which additional quantities of the gas mixture first referred to are constantly introduced between the catalyst and the liquefier.

The application of appellant, who is a chemist, was filed on April 16, 1921. Appellee filed May 12, 1923. Appellant therefore is the senior party and the burden was upon appellee to establish by a preponderance of evidence a date of conception prior to that of appellant and a reduction to practice thereafter with diligence from the time appellant entered the field.

Both parties filed preliminary statements, but appellee alone introduced testimony.

The three tribunals of the Patent Office, namely, the Examiner of Interferences, Examiners in Chief, and the Commissioner, united in finding the following: That appellant's filing date of April 16, 1921, is the date of his conception, and his application was a constructive reduction to practice; that appellee established a conception of the invention at least as early as April 15, 1920; reduced it to practice in August, 1921, and was diligent in so doing; that priority of invention should be awarded to appellee, the junior party.

[1] Unless material error is shown, the findings of fact of the three tribunals of the Patent Office, being unanimous, will not be disturbed by this court. *Greenawalt* v. *Dwight*, 266 O. G. 138; 49 App. D. C. 82; 258 Fed. Rep. 982, and cases cited.

Appellant does not deny that appellee was the first to conceive the invention, but he contends that appellee was not diligent in reducing it to practice, and further that the proof does not show that it has ever been reduced to practice by appellee or his assignee, the Atmospheric Nitrogen Corporation, of which appellee was an employee.

The evidence fully establishes that the invention was reduced to practice by appellee and his assignee on or about August 10, 1921, and this is so clear that it requires no discussion.

[2] Therefore, the only question for us to consider is whether the record contains proof of diligence in reducing his conception to practice.

The evidence shows that appellee is a chemist and conceived the invention here in issue in December, 1919, while in the employ of the General Chemical Company; that about that time said company organized the Atmospheric Nitrogen Corporation and appellee entered its employ, and has so continued to the present time; that while so employed, and some time in January, 1920, he disclosed his invention to Dr. B. C. Hesse, who was also a chemist, in the employ of the General Chemical Company as a specialist in chemical patent matters. Said Hesse testified that he was instructed by his superiors in the General Chemical Company to cooperate in the ammonia situation just as though the Atmospheric Nitrogen Corporation was the General Chemical Company. Appellee further testified that in making such disclosure to Dr. Hesse he prepared a sketch of his invention which Dr. Hesse dated and signed, which was the usual procedure in such cases; said sketch was offered in evidence and received. Appellee testified also that some time in 1919 the General Chemical Company decided to construct a plant for the manufacture of synthetic ammonia, and the Atmospheric Nitrogen Corporation was formed, as above stated, for the purpose of carrying on the synthetic ammonia branch of the chemical business; that actual construction of the plant was commenced about June 1, 1920 at Syracuse, N. Y.; that from the time that construction began until its completion the process conceived by appellee was made a part of the plans and designs for the construction of said plant; that the construction of said plant proceeded with very great expedition and it was completed in August, 1921; that there was expended in its construction approximately $4,000,000; that in July, 1929, appellee secured a patent for a process, the object of which was the same as the object of the process here in issue; that said process is known as the sodium amide process; that in the construction of said plant at Syracuse, apparatus was installed for the use of said process, but it was never utilized or connected up, and the only purpose of its installation was to have available another means for purifying the gases if the process here in issue should not prove successful; that the process here involved having proved successful, the said sodium amide process was never utilized in said plant. Appellee further testified that the General Chemical Company maintained a laboratory at Laurel Hill, N. Y., from 1919 until June, 1921, for the purpose of testing catalysts; that this laboratory was available to appellee during all of the time here in question. Appellee testified that it would have been very expensive and complicated to have installed the necessary apparatus at the Laurel Hill laboratory to test the process here in issue; that among other things, it would have been necessary to install a small refrigerating machine to keep the liquid ammonia purifier cold, and that the Fire Department of New York city insisted that such a machine would have to be installed in a separate fireproof brick building, which would have had to be erected.

There is no testimony as to the time that would have been required after April 16, 1921, to have equipped the Laurel Hill laboratory for the purpose of testing the process here in issue. Appellee also testified that a proper test could not have been made in any event in this laboratory, and that it required the production of nitrogen-hydrogen gases upon a large scale to make a proper test, which could only be done at the plant being erected at Syracuse.

Appellant contends that the Commissioner and other tribunals of the Patent Office entirely misconceived the facts in the case. He points out that the appellee testified that one of the great advantages of his process was that it required no additional apparatus or chemical to put it into operation, but merely required a connection subjecting the gases to treatment with ammonia in its liquefied state immediately prior to the introduction of the gases into the ammonia catalyst, whereas the Commissioner found that diligence was evidenced by the installation of cold transferrers and other devices for the purpose of carrying out the process of the invention in issue as early as April 23, 1921. We may assume that the Commissioner was in error in this respect, and that the only change that was necessary to carry out the process here in issue in said Syracuse plant was the making of connections in a different way than would have been made if said process was not a part of the plant. The fact remains, however, that the plans did provide for such special connections for carrying out the said process long before appellant's conception of the invention or his constructive reduction to practice. If the plans for the construction of the Syracuse plant were being carried out in good faith to include the process here in issue, and they clearly were, we hold that this constitutes diligence, unless appellee or his assignee could have tested the process in some other way subsequent to April 16, 1921, and substantially earlier than August 10, 1921. Appellee testified that this could not have been done. With regard to appellant's contention that the test could have been made at the Laurel Hill laboratory, we must accept as a fact that, granting that this were so, it could only have been done by the installation of additional apparatus and the erection of a new brick building. Inasmuch as appellee was chargeable with diligence only from April 16, 1921, we can not say that the construction and apparatus necessary in the Laurel Hill laboratory could have been completed and installed substantially earlier than August 10, 1921, when the process was reduced to practice at Syracuse.

Appellee was chargeable with diligence for only a period of a little less than four months. We think the evidence establishes that diligence was exercised by appellee and his assignee.

Appellant also makes a point that appellee testified that he had never disclosed his invention to any of the officers of his assignee, and therefore the assignee knew nothing about the process, and that the conduct of the assignee is controlling upon the question of diligence; that inasmuch as appellee's assignee had decided upon the erection of the plant at Syracuse prior to the conception of the invention by appellee and the plant would have been constructed if the invention in issue had never been made, lack of diligence by appellee's assignee

has been shown. The answer to this contention is that the disclosure was made to the chemical specialist in patents, acting for the assignee; that the plans did provide, from a date prior to appellant's conception, for the use of appellee's process in the plant to be constructed, and the presumption is that the officers of the assignee did know what was contained in the plans which had been adopted by them.

The rule is that as between one who has actually reduced an invention to practice and one who has only constructively so reduced it by filing an application, indulgence should be extended to him who actually reduced it in good faith. *Laas* v. *Scott*, 161 Fed. Rep. 122. We do not think it necessary to apply that rule in this case for we think that the period of less than four months in which diligence was required to be exercised was not an unreasonable time in which to reduce the invention to practice under the circumstances here shown.

The decision of the Commissioner is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,016,897, C. Ryan, Nut lock; 1,275,478, same, Lock nut and bolt, filed Dec. 20, 1929, D. C., Minn. (St. Paul), Doc. E 1803, *C. Ryan* v. *The Carnegie Steel Co.* Doc. E. 1802, C. *Ryan* v. *Great Northern Ryy. Co.*

1,058,542, S. L. Brown, Pipe coupler; 1,619,755, A. L Parker, Tube coupling, D. C., N. D. Ohio (E. Div.), Doc. 2366, *A. L. Parker* (*The Parker Appliance Co.*) v. *A. J. Weatherhead.* Dismissed as to 1,058,642; 1,619,755 held valid and infringed Jan. 10, 1930.

1,124,556, 1,336,870, H. H. Tracy, Steam separator; 1,602,641, H. E. Boyrie, Fluid separator; 1,708,654, R. W. Andrews; same, filed Dec. 28, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9574, *Blaw Knox Co.* v. *International Filter Co.*

1,186,533, G. Aldworth, Permanent-hair-waving appliance, D. C., S. D. N. Y., Doc. E 87/98, *Nestle Patent Holding Co., Inc. et al.* v. *R. Denels.* Dismissed for noninfringement Jan. 13, 1930.

1,203,495, W. D. Coolidge, Vacuum tube; 1,211,091, same, Cathode-ray device; 1,326,029, same, Incandescent-cathode device, filed Jan. 14, 1930, D. C., S. D. N. Y., Doc.—, *Victor X-ray Corp. et al.* v. *Cooper & Cooper, Inc.*

1,211,091. (See 1,203,495.)

1,234,709, H. Adams, Method of and apparatus for storing and discharging coal, filed Jan. 16, 1930, D. C., Conn. (New Haven), Doc. E 2045, *Eaton Kent, Inc.* v. *American Coal Co., Inc.*

1,264,990, H. H. Stephens, Sewage-treating apparatus; 1,543,002, E. Geiger, Cleaning apparatus; 1,452,458, same, Cleaning brush; 1,610,431, W. L. D'Oliver, Disc screen; 1,624,221, same, Screen-cleaning apparatus; 1,740,578, same, Screen, filed Jan. 15, 1930, D. C., S. D. N. Y., Doc. E 51/348, *San-Dia Engineering Corp.* v. *Shevlin Engineering Co., Inc.*

1,275,478. (See 1,016,897.) 1,326,029. (See 1,203,495.)
1,336,870. (See 1,124,556.)

1,371,866, T. A. Crompton, jr., Relief valve, D. C., N. D. Ohio, (E. Div.), Doc. 2614, *Brooks Engineering Corp.* v. *The Oil Conservation Engineering Co.* Patent held valid and infringed Jan. 11, 1930.

1,405,773. (See 1,554,928.) 1,437,521. (See 1,544,928.)
1,452,458. (See 1,264,990.)

1,456,528, H. D. Arnold, Electric-discharge device; 1,459,412, A. M. Nicolson, Thermionic translating device, D. C., R. I., Doc. 337, *Radio Corp. of America et al.* v. *Triad Mfg. Co., Inc.* Consent decree for plaintiff Jan. 14, 1930.

1,459,412. (See 1,456,528.)

1,467,364, 1,512,588, 1,518,844, C. E. Fisher, Brush-making machine; 1,467,365, same, Staple-driving mechanism for brush-making machines, filed Dec. 23, 1929, D. C., N. D. Ill. (E. Div.), Doc. 9571, *The Fisher Automatic Brush Machine Co., Inc.*, v. *National Brush Co.*

1,467,365. (See 1,467,364.) 1,512,588. (See 1,467,364.)
1,518,844. (See 1,467,364. 1,522,344. (See 1,554,928.)
1,537,708. (See Re. 15,278.) 1,543,002. (See 1,264,990.)

1,554,928, A. B. Thompson, Motor for automatic windshield cleaners; 1,522,344, same, Automatic windshield cleaner; 1,562,122, J. R. Oishei, Fluid-pressure motor; 1,565,493, Oishei & Horton, same, 1,567,328, J. R. Oishei, Motor for windshield cleaner; 1,405,773, W. M. Folberth, same; Re. 16,322, H. Hueber, Power-operated windshield cleaner, D. C., N. D. Ohio (E. Div.), Doc. 2838, *Trico Products Corp.* v. *R. Cuebas et al.* Claims 1 to 12, inclusive, of 1,522,344, claims 2, 4, 5, 6, and 7 of 1,554,928, claims 1, 2, and 3 of 1,562,122, claims 1 to 9, inclusive, and 11 to 15, inclusive, of 1,565,493, claims 1, 2, 3, and 9 of 1,567,328, claims 6, 7, 9, 10, 11, 12, 13, and 16 of Re. 16,322 held valid and infringed Jan. 4, 1930.

1,558,437. (See Re. 15,278.) 1,562,122. (See 1,554,928.)
1,565,493. (See 1,554,928.) 1,567,328. (See 1,554,928.)
1,602,641. (See 1,124,556.) 1,610,431. (See 1,264,990.)
1,619,755. (See 1,058,542.) 1,624,221. (See 1,264,990.)

1,677,457, A. B. Modine, Heat-exchange unit; 1,726,275, same, Heating apparatus, filed Jan. 14, 1930, D. C., E. D. Wis. (Milwaukee), Doc. 2827, *Modine Mfg. Co.* v. *Young Radiator Co.*

1,679,306, F. Hirsh, Slide buckle, D. C., S. D. N. Y., Doc. E 46/114, *Adjusta Co.* v. *Alma Mfg. Co.* Consent decree for plaintiff Jan. 11, 1930. Doc. E 46/115, *Adjusta Co.* v. *Hazel Button Corp.* Decree as above.

1,696,103. (See Re. 15,278.) 1,708,654. (See 1,124,556.)

1,725,500, V. P. Writer, Tam pressing machine, appeal filed Jan. 10, 1930, C. C. A., 2d Cir., Doc. 10762, *Anderson & Writer Corp.* v. *Henky Beret, Inc. et al.*

1,726,275. (See 1,677,457.) 1,740,578. (See 1,264,990.)

Re. 15,278, I. Langmuir, Electron-discharge apparatus; 1,558,437, same, Electrical-discharge apparatus; 1,537,708, W. Schottky, Thermionic vacuum tube; 1,696,103, G. Seibt, Electric-discharge tubes, D. C., R. I., Doc. 338, *Radio Corp. of America et al.* v. *Triad Mfg. Co., Inc.* Consent decree for plaintiff Jan. 14, 1930.

Re. 16,322. (See 1,554,928.)

T. M. 200,934, Dry Ice Corp. of America, Carbon dioxide; T. M. 215,799, same, Refrigerator; T. M. 230,202, same, Container, filed Jan. 4, 1930, D. C., W. D. La. (Shreveport), Doc. E 370, *Dry Ice Corp. of America* v. *Louisiana Dry Ice Corp. et al.*

T. M. 215,799. (See T. M. 200,934.) T. M. 230,202. (See T. M. 200,934.)

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,575,603, W. T. Powell, Automatic telephone system, decided January 27, 1930, claims 9 and 11.

Pat. 1,617,413, L. A. Mortimer, Telephone system, decided January 31, 1930, claims 9 and 10.

Pat. 1,635,221, F. C. Pearson, Hydraulic brake system for motor vehicles, claims 8 and 9.

Pat. 1,667,481, C. H. Lange and E. W. Vollert, Game, decided February 19, 1930, claims 2, 4, 5, 6, and 11.

Pat. 1,674,793, T. A. Peebles, Furnace, decided February 17, 1930, claim 15.

Pat. 1,721,674, Wm. A. Smith, Blowing device, decided January 31, 1930, claims 1 and 2.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 11, 1930

[VOL. 392. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 285,456. J. GREENEBAUM TANNING COMPANY, Milwaukee, Wis. Filed June 12, 1929.

NORMIL SIDES

No claim being made to the word "Sides" apart from the mark shown.
For Leather.
Claims use since June 1, 1929.

Ser. No. 292,768. CASPER C. TREPEL, Farmingdale, N. Y. Filed Nov. 22, 1929.

CITY of GLASS

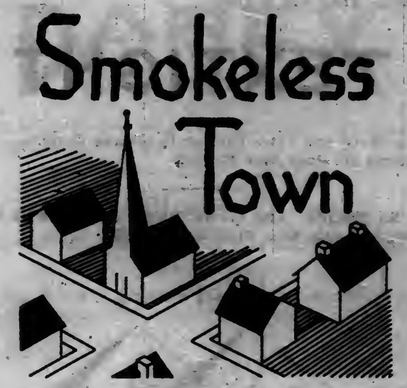
For Cut Flowers and Shrubs.
Claims use since Oct. 21, 1929.

Ser. No. 293,114. SMOKY HOLLOW COAL CO., Albia, Iowa. Filed Nov. 30, 1929.

SMOKY HOLLOW

For Coal.
Claims use since October, 1883.

Ser. No. 293,538. RICHMOND NICHOLAS, doing business as Briquet Company of America, Chicago, Ill. Filed Dec. 11, 1929.



For Briquets of Coal and Coke.
Claims use since Oct. 24, 1929.

Ser. No. 293,800. SUNSHINE COAL COMPANY, Centerville, Iowa. Filed Dec. 17, 1929.



The words "Burn Coal" are disclaimed apart from the other features of the mark shown.
For Coal.
Claims use since July 18, 1905.

CLASS 2

Receptacles

Ser. No. 283,770. THE HINDE & DAUCH PAPER COMPANY, Sandusky and Delphos, Ohio; Chicago, Ill.; Philadelphia, Pa.; New York, N. Y.; Muncie, Ind. Filed May 10, 1929.

Pre-Pak

For Paperboard Boxes and Cartons.
Claims use since Mar. 21, 1929.

Ser. No. 288,049. O. B. ANDREWS COMPANY, Chattanooga, Tenn. Filed Aug. 3, 1929.

TEXTIGHT

For Wood and Fibre Packing Boxes and Cartons.
Claims use since June 22, 1929.

Ser. No. 290,732. THE ALPHA TANK & SHEET METAL MFG. CO., St. Louis, Mo. Filed Oct. 7, 1929.

AN AA PRODUCT
ALPHA
TRADE MARK

The words "Product" and "Trade-Mark" are disclaimed apart from the mark shown.
For Metal Storage Tanks, Bins, Vats.
Claims use since Apr. 1, 1929.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 290,096. TRIANGLE TRAVELING BAG WORKS, INC., Cincinnati, Ohio. Filed Sept. 21, 1929.

TRIANGLE TRAVELERS

For Trunks, Traveling Bags, Pocketbooks, Overnight Bags, Hatboxes of Leather or Similar Material and Used for Traveling Purposes, Valises, Gladstone Bags, Brief Cases, Catalog Cases, Hand Wardrobes, Pullman Cases, and Sample Display Cases.
Claims use since on or about Aug. 1, 1929.

Ser. No. 294,340. JOHN CAVANAGH, LTD., New York, N. Y. Filed Jan. 3, 1930.

Cavanagh

John Cavanagh Ltd.
247 Park Avenue New York

No claim is made to the exclusive right to use the notation "247 Park Avenue New York."
For Hatboxes, in the Nature of Luggage, Hat Trunks, and Traveling Cases for Canes.
Claims use since about Dec. 1, 1928.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 287,148. ARTHUR MARABATE, doing business as Marabate Products Company, Detroit, Mich. Filed July 15, 1929.

MAR-GO

For Metal Polishes and Refinishers.
Claims use since December, 1927.

Ser. No. 288,317. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Aug. 9, 1929.

ALBA

For Soap.
Claims use since Nov. 27, 1895.

Ser. No. 290,487. BUCKINGHAM MANUFACTURING COMPANY, St. Louis, Mo. Filed Oct. 2, 1929.

BUCKINGHAM'S JIFFY SHAVE



No claim being made to the word "Shave" apart from the mark shown in the drawings.
For Soapless Shaving Cream Also Having the Properties of a Lotion and Tonic.
Claims use since July 15, 1929.

Ser. No. 293,731. HARTSDALE RESEARCH LABORATORIES, INC., Hartsdale, N. Y. Filed Dec. 16, 1929.

WATTA-KLEENA

Applicant makes no claim for the use of the word "Kleena" appearing on the drawing filed herewith apart from the trade-mark "Watta."
For Cleansing Compound Having Incidental Water-Softening and Grease-Cutting Properties and Comprising a Liquid Paste or Creamy Substance Consisting of Certain Chemical Ingredients Compounded Together for Cleansing or Washing Textile Fabrics and Other Articles and for Cleaning and Polishing Metal, Wood, Marble, Glassware, Silverware, Cutlery, Brass, and Copperware and Other Articles.
Claims use since on or about Nov. 30, 1929.

Ser. No. 294,407. WESTERN CHEMICAL COMPANY, St. Joseph, Mo. Filed Jan. 4, 1930.

WESCO

For Liquid, Powdered, and Crystal Soaps and Cleaners, and Sweeping Compounds.
Claims use since Feb. 1, 1925.

CLASS 5

Adhesives

Ser. No. 293,684. THE ORRSELL COMPANY, New York, N. Y.; Philadelphia, Pa.; and Vancouver, Wash. Filed Dec. 14, 1929.

ORRSELL

For Adhesive Compounds—viz, Cement for Rubber Goods and Liquid to Prepare Rubber Goods to Receive the Cement.
Claims use since Sept. 15, 1928.

Ser. No. 294,065. DEWEY & ALMY CHEMICAL COMPANY, North Cambridge, Mass. Filed Dec. 26, 1929.

DAREX

For Adhesives—Namely, Cements, Pastes, and Gums.
Claims use since Dec. 7, 1929.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 270,014. CARROLL DUNHAM SMITH PHARMACAL CO., New York, N. Y. Filed July 28, 1928.

edesco

For Alterative, Analgesic, Anodyne, Anorexia Preparation, Antacid, Anthelmintics, Antiseptic, Aphrodisiac, Astringent, Bronchitis Preparation, Cathartic, Colic Preparation, Antidote, Coryza Preparation, Cough Preparation, Croup Preparation, Demulcent, Deodorant, Diaphoretic, Diarrhœa Preparation, Digestant, Diuretic, Emmenagogue, Emollient, Expectorant, Fever Preparation, Grippe Preparation, Hay-Fever Preparation, Preparation for the Relief of Headache, Hepatic Stimulant, Incontinency Preparation, Indigestion Preparation, Infants' Cholera Preparation, Laxative, Nerve Sedative, Pertussis Preparation, Sedative, Sore-Throat Lozenges, Sore-Throat Tablets, Blood and Nerve Stimulant, Stomachic, Throat Tablets, General Medicinal Tonic, Tonsilitis Preparation, Lozenges and Pastilles for Treating Irritations of the Throat, Whooping-Cough Preparation, Sunburn Cream, Vanishing Cream, Cold Cream, Sunburn Lotion, Poison-Ivy Lotion, Toilet Lotion; Ointment for Use in Treating Eczema, Rash, Pimples, and Kindred Skin Eruptions; Suppositories.
Claims use since Apr. 26, 1928.

Ser. No. 271,415. THE R. L. WATKINS COMPANY, New York, N. Y. Filed Aug. 22, 1928. Under 10-year proviso.

DR. LYON'S

For Dentrifice.
Claims use since 1866.

Ser. No. 271,462. THE R. L. WATKINS COMPANY, New York, N. Y. Filed Aug. 23, 1928. Under 10-year proviso.

I. W. Lyon. D.D.S.

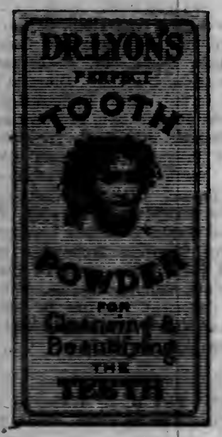
The trade-mark consists of the signature of the late I. W. Lyon, D. D. S.
For Dentifrice.
Claims use since about 1867.

Ser. No. 271,631. THE R. L. WATKINS COMPANY, New York, N. Y. Filed Aug. 27, 1928.



The trade mark consists of a fanciful representation of a woman's head.
For Dentifrice.
Claims use since June 1, 1868.

Ser. No. 271,671. THE R. L. WATKINS COMPANY, New York, N. Y. Filed Aug. 28, 1928.



No claim is made to the exclusive use of the words "Perfect Tooth Powder for Cleansing & Beautifying the Teeth" apart from the mark as shown. The portrait of a woman appearing upon the drawing is fanciful. The lining on the drawing represents the color blue.
For Dentifrice.
Claims use since 1892.

Ser. No. 279,388. GEORG SCHICHT A. G., Aussig, Czechoslovakia. Filed Feb. 15, 1929.

Leda

For Perfumeries, Fragrant Extracts, Cosmetical Cream, Toilet Glycerine, Hair Tonics, Hair Waters, Scalp Waters, Tooth and Mouth Washes, Pomades, Face Powders, Talcum Powders, Tooth Paste and Powders, Cologne Waters, Bath Salts, Cold Creams, Vanishing Creams, Face Creams, Eyebrow Pencils, Hair Washes, Hand Lotions, Nail Polishes, Nail Pastes, Shampoos, Toilet Waters and Toilet Vinegars, Toilet-Powder Compacts, Lip Sticks, Rouges, Skin Lotions, Smelling Salts, Hair Dyes, Hair Salves, Hair Oils, Fragrant Oils, Incense, Nail Powders, Nail Bleaches, Dentifrices, Deodorants, Disinfectants, Washing Soda, Bluing for Laundry Purposes, and Starch for Stiffening and Glossifying Linen or Other Clothes.
Claims use since 1901.

Ser. No. 281,259. SALOMON CHAJUD, Las Juntas, Abangares, Costa Rica. Filed Mar. 25, 1929.



No claim apart from the mark as shown is made to the wording appearing in the mark with the exception of the word "Salomon."
For Salve or Ointment for the Treatment of Ulcers, Rheumatism, and Piles.
Claims use since May 12, 1920.

Ser. No. 283,004. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Apr. 25, 1929.

UMBREX

For Material Composed of Saturated Fatty Acids.
Claims use since Apr. 6, 1929.

Ser. No. 285,178. SCHERING & GLATZ, INC., New York, N. Y. Filed June 6, 1929.

NOVATOPHAN

For Medicinal Preparation Used in the Treatment of Gout, Rheumatism, and Similar Ailments with Inflammatory Painful Manifestations.
Claims use since November, 1912.

Ser. No. 286,942. KOPPERS PRODUCTS COMPANY, Pittsburgh, Pa. Filed July 11, 1929.



For Insecticides.
Claims use since July 1, 1929.

Ser. No. 287,082. BERTRAM B. MAIER, doing business as Windsor Park Chemical Company, Chicago, Ill. Filed July 13, 1929.

Gauthsin

For Liquid Medicinal Preparation for the Treatment of Rheumatism, Neuritis, and Other Painful Conditions.
Claims use since May 1, 1929.

Ser. No. 288,585. CHEMICAL COMPOUNDING CORPORATION, Brooklyn, N. Y. Filed Aug. 16, 1929.

SUPERSAN

For Insecticides, Disinfectants, and Antiseptics, Hoof Dressing, Cresol Solution, Liniment Adapted for Use as a Body Wash and Brace Used on Animals, Agricultural Insecticides, Deodorants, and Antiseptic Oils.
Claims use since on or about Feb. 1, 1929.

Ser. No. 290,858. THE O. & W. THUM COMPANY, Grand Rapids, Mich. Filed Oct. 9, 1929.



The lining on the drawing represents the colors yellow and blue.
For Insecticide.
Claims use since Jan. 2, 1924.

Ser. No. 291,034. MIKE H. VASKOS, Beloit, Wis. Filed Oct. 12, 1929.

Ro-Jay

For Powder Preparation for Use in the Treatment of Piles.
Claims use since Sept. 23, 1929.

Ser. No. 291,700. THE SPANN & TOMLIN SHAVING MFG. CO., Tulsa, Okla. Filed Oct. 28, 1929.



No claim is made to the words "Trade Mark" apart from the mark as shown.
For Complexion Cream and Face Lotion.
Claims use since Oct. 10, 1929.

Ser. No. 292,040. OTTO KOHVAKKA, San Francisco, Calif. Filed Nov. 5, 1929.

OTTO'S

For Medicinal Preparation in Liquid Form to be Applied Externally for the Treatment of Rheumatism and Sprains.
Claims use since Oct. 1, 1929.

Ser. No. 292,442. C. DAVILA, Los Angeles, Calif., assignor to The Rino Laboratories Company, Los Angeles, Calif. Filed Nov. 15, 1929.

RINO

For a Stimulant and Laxative in Cases of Constipation, Headache, Stomach and Liver Troubles, and Trouble Originated by Excess of Alcoholic Beverages.
Claims use since Mar. 1, 1929.

Ser. No. 292,524. COTTON BELT DRUG COMPANY, Augusta, Ga. Filed Nov. 18, 1929.



HEDIEASE

The picture being fanciful.
For Preparation for the Relief of Pain and Discomfort Arising from Simple Headaches, Neuralgia, Head Colds, Muscular Aches and Pains.
Claims use since August, 1916.

Ser. No. 292,591. FRANK H. NEWTON, Los Angeles, Calif. Filed Nov. 19, 1929.

RESTORO
HOT OIL
HAIR AND SCALP

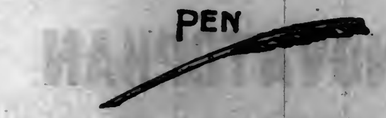
The words "Medicated Hot Oil Treatment" and "Restores Health to Hair and Scalp" are disclaimed apart from the mark shown.
For Cosmetic for the Hair and Scalp.
Claims use since about April, 1928.

Ser. No. 293,154. POHLENZ & SALCEDO, Mexico, Mexico. Filed Dec. 2, 1929.

Renacimiento

For Medicine Used in the Treatment of Tuberculosis.
Claims use since Nov. 10, 1929.

Ser. No. 293,265. CLAY & ABRAHAM LTD., Liverpool, England. Filed Dec. 5, 1929.



For a Preparation of Iodine, a Preparation of Hydrogen Peroxide, and a Preparation for Application to Corns for Softening and Removing Same, All for Human Use as Medicines.
Claims use since on or about May 28, 1929.

Ser. No. 293,415. EBREY CHEMICAL WORKS, INC., New York, N. Y. Filed Dec. 9, 1929.



The name "Paul Ebrey" is not the name of any living person, but is a fictitious coined name, and appears on the mark in the handwriting of the applicant's artist, F. H. Brinkman. The lining appearing upon the drawing is for the purpose of shading only. No claim is made to the representation of the bottle or of the carton shown on the drawing, and no claim is made to any of the wording appearing upon the drawing except "Paul Ebrey, Ebrey's, Ebrey Chemical Works," and "Ebrey Chemical Works, Inc." Applicant is the owner of registered trademarks No. 71,254 and No. 178,795.
For Medicine for the Relief of Kidney and Bladder Trouble and to Prevent Gallstones and Gravel Formations.
Claims use since November, 1926.

Ser. No. 293,422. FORHAN COMPANY, New York, N. Y., assignor, by mesne assignments, to Forhan Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 9, 1929.

R. J. Forhan D.D.S.

The mark "R. J. Forhan, D. D. S." is the facsimile signature of Dr. R. J. Forhan, the founder of the business carried on by the present applicant.
For Pyorrhea Preparation.
Claims use since Sept. 1, 1915.

Ser. No. 293,605. SLOTHOWER BROS. & SONS, Harrisburg, Pa. Filed Dec. 12, 1929.

Slothower's



No claim is made to the surname "Slothower's" apart from the mark as shown. Applicant is the owner of registered Trade-Mark No. 79,878.
For Liniment for Internal and External Use, Corn Salve, White Pine Cough Syrup; Vapor Balm Salve for the Treatment of Catarrh, Colds, Croup, and Pneumonia; Hair Tonic, Vanishing Cream; Papain Tablets for Indigestion, Acid Stomach, Dyspepsia, and Intestinal Disorders; Laxative Cold Tablets, Medicinal Tablets for Biliousness, Inactive Liver, and General Debility; Dental Cream, Healing Cream for the Skin, Concentrated Cocoanut-Oil Shampoo; Healing Salve for Cuts, Sores, Bruises, Burns, Scald, Sunburn, Galls, Ivy Poisoning, and Skin Irritations; Body Powders and Deodorants.
Claims use since Apr. 6, 1910.

Ser. No. 293,734. LOUISE KENT, INC., Brooklyn, N. Y. Filed Dec. 16, 1929.



Louise Kent

The representation of the head is fanciful. Applicant disclaims exclusive right to the name "Louise Kent" apart from the mark as shown.
For Cosmetics—Namely, Face Powder, Lip Sticks, Lip Rouge, Rouge Compact, Double Solid Vanity Which Includes Rouge and Face Powder in Cake Form, Double Loose Vanity Which Includes Rouge and Face Powder in Loose Form, Cold Cream, Vanishing Cream, Cleansing Cream, Tissue Cream, Beauty Lotion Which Includes a Preparation of Cold Cream in Liquid Form, Astringent Lotion, and Eye Shade in Pencil Form and in Cream Form.
Claims use since Nov. 14, 1929.

Ser. No. 294,026. LEONARD A. SELTZER, doing business as Seltzer, Detroit, Mich. Filed Dec. 28, 1929.

HEXAPHEDRIN
SOLUTION
(SELTZER)

The phrase "Founded 1896" and the word "Solution" are not claimed apart from the mark as shown on the drawing.
For Medicinal Solution for Use as an Application in Inflamed Conditions of the Nasal Passages.
Claims use since Jan. 1, 1929.

Ser. No. 294,037. RICHARD B. MUSICK'S COMPOUND COMPANY, Los Angeles, Calif. Filed Dec. 24, 1929.



The portrait being a picture of a member of the firm—Namely, Richard B. Musick—and a feature of the mark consisting of a facsimile of his signature. The words "Trade Mark" are disclaimed apart from the mark shown on the drawing.
For Medical Compound Adapted for the Treatment of Chronic Constipation and Other Ailments—Namely, Rheumatism, Kidney, Liver, and Bladder Trouble, Fevers and Run-Down Condition.
Claims use since about Dec. 10, 1929.

Ser. No. 294,051. BALDWIN PERFUMERY COMPANY, doing business as Baldwin, Chicago, Ill. Filed Dec. 26, 1929.

Pasión

For Perfume, Toilet Water, Sachet, Face Powder, Face Cream, Smelling Salts, Liquid Face Powder, Rouge, Nail Polish, Dentifrice, and Lip Stick.
Claims use since on or about Feb. 1, 1929.

Ser. No. 294,086. FRANK O. RINGNELL, doing business as F O R Laboratories, Glendale, Calif. Filed Dec. 26, 1929.



No claim is made to the exclusive use of the words "Cream" and "Mask" aside from the mark shown in the drawing. The lining in the drawing is for shading only.
For Skin Cream.
Claims use since October, 1929.

Ser. No. 294,483. PARFUMERIE MONPELAS, STEINFELS FRERES & CIE., SOCIETE A RESPONSABILITE LIMITEE, and doing business as Luyna, Vincennes, France. Filed Jan. 7, 1930.

CADEAU
DE
PARIS

For Perfumes, Toilet Water, Face Powder, Talcum Powder, Face Creams, Rouges, Lip Sticks, Sachets, Lotion for the Skin and Hair, Brilliantine, Bath Salts.
Claims use since Nov. 14, 1928.

Ser. No. 294,494. RENEE THORNTON, New York, N. Y. Filed Jan. 7, 1930.



The lining at the margin of applicant's drawing is for the color yellow or golden and is an essential feature of applicant's mark. The exclusive use of the word "Perfume," except as shown in the drawing, is disclaimed.
For Perfumes in Powdered and Liquid Form.
Claims use since Jan. 10, 1929.

Ser. No. 294,525. HADENSA GESELLSCHAFT M. B. H., Berlin-Lichterfelde, Germany. Filed Jan. 8, 1930.

Varixsa

For Salve for Treating Ulcers of the Leg.
Claims use since June 3, 1922.

Ser. No. 294,526. HADENSA GESELLSCHAFT M. B. H., Berlin-Lichterfelde, Germany. Filed Jan. 8, 1930.

Lichensa

For Preparation for Treating Eczema.
Claims use since June 3, 1922.

Ser. No. 294,545. ROZ-IN-IZE, INC., Boston, Mass. Filed Jan. 8, 1930.

S-O-X

For Preparation for Treating Cut Soles to Produce Longer Life.
Claims use since Oct. 4, 1929.

Ser. No. 294,623. COTY, INC., Wilmington, Del., and New York, N. Y. Filed Jan. 10, 1930.

CARNADINE

For Nail Polish.
Claims use since Dec. 20, 1929.

Ser. No. 294,668. LEO G. GARSKE, Minneapolis, Minn. Filed Jan. 11, 1930.

LEO'S

For Preparations for the Treatment of Ailments in the Stomach.
Claims use since first part of March, 1927.

Ser. No. 294,778. CHARLES M. ROSENBAUM, doing business as C. M. R. Mfg. Co., New York, N. Y. Filed Jan. 14, 1930.

C.M.R.

For Medicinal Preparations for the Treatment of Coughs, Colds, Indigestion, Bronchitis, Dyspepsia, and Gas on the Stomach.
Claims use since Oct. 23, 1925.

Ser. No. 294,779. CHARLES M. ROSENBAUM, doing business as C. M. R. Mfg. Co., New York, N. Y. Filed Jan. 14, 1930.

C.M.R.



For Medicine for the Relief of Indigestion, Dyspepsia, and Gas on the Stomach.
Claims use since Oct. 23, 1925.

Ser. No. 294,825. A. H. PAUITT, doing business as A-P Laboratories, Wichita, Kans. Filed Jan. 15, 1930.

A-P

For Lice Powder to Control Lice on Poultry and Livestock and Fleas on Dogs and Cats, Tablets for Purifying the Drinking Water for Poultry, and Worm Capsules for Tape and Round Worms in Poultry.
Claims use since July 12, 1929, on worm capsules for poultry; Dec. 31, 1929, on remainder of goods.

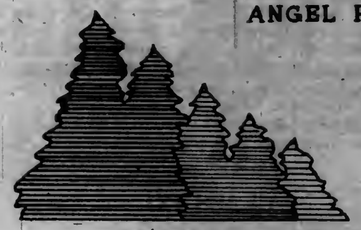
Ser. No. 294,871. DAVICE CORPORATION OF AMERICA, New York, N. Y., and Elizabeth, N. J. Filed Jan. 17, 1930.

"HIDRI"

For Carbon Dioxide (CO_2) in Solidified Forms, Mixtures, and Compounds.
Claims use since Aug. 14, 1929.

Ser. No. 294,875. LEOPOLD GRANITZ, doing business as Continent Import Co., New York, N. Y. Filed Jan. 17, 1930.

ANGEL PINE



ANGEL PINE

The drawing is lined to indicate blue although the color lining indicating the color blue is disclaimed as a part of the mark. The word "Pine" is disclaimed apart from the mark shown in the drawing.
For Pine-Needle Extract Combined with Bath Salts.
Claims use since Jan. 1, 1930.

Ser. No. 295,010. BORIS BOROWIKOW, doing business as Borowikow Laboratories Co., Brooklyn, N. Y. Filed Jan. 21, 1930.

ZENOL

For Creams for Disorders of the Skin.
Claims use since Oct. 1, 1928.

Ser. No. 295,087. SOCIETE ANONYME M. NAEF & CIE., Geneva, Switzerland. Filed Jan. 22, 1930.

JASMANTHEME

For Artificial and Synthetic Perfumes, Essential Oils.
Claims use since Sept. 30, 1909.

Ser. No. 295,089. SOCIETE ANONYME M. NAEF & CIE., Geneva, Switzerland. Filed Jan. 22, 1930.

JESSAMEA

For Artificial and Synthetic Perfumes, Essential Oils.
Claims use since Nov. 20, 1929.

Ser. No. 295,226. KLEER-A-KOLD CO., Milwaukee, Wis. Filed Jan. 25, 1930.

KLEER A KOLD

For Pharmaceutical Preparation for the Treatment of Colds.
Claims use since Nov. 1, 1928.

Ser. No. 295,243. ABBOTT LABORATORIES, Chicago, Ill. Filed Jan. 27, 1930.

METAPHEDRIN

For Nose and Throat Spray Having Antiseptic and Shrinking Action in Cases of Infection and Congestion.
Claims use since Jan. 1, 1928.

Ser. No. 295,248. BLUE RIBBON CHEMICAL CO., Kansas City, Mo. Filed Jan. 27, 1930.

VAPOL

For Liquid Medicine for Relief of Nasal and Sinus Troubles.
Claims use since Dec. 5, 1929.

Ser. No. 295,289. AMERICAN SUNDRIES CO., INC., Brooklyn, N. Y. Filed Jan. 28, 1930.

Vapozoin

For Medicinal Preparation Used in the Treatment of Common Head Colds, Acute Coryza and Rhinitis, Spasmodic Croup, and Congestive Conditions of the Upper Respiratory Tract When Due to Common Colds, Laryngitis, Whooping Cough, Bronchitis, Hay Fever, and Asthma.
Claims use since Dec. 16, 1929.

Ser. No. 295,311. GEORGE H. WERFELMAN, doing business as Industrial Gasket and Packing Co., Los Angeles, Calif. Filed Jan. 28, 1930.

Radorite

For Radiator-Cleaning Compound and Rust Preventive.
Claims use since Jan. 15, 1926.

Ser. No. 295,897. STANDARD BRANDS INCORPORATED, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Filed Jan. 30, 1930.

PHOS-FO-LAC

For Phosphate and Lactate Mixture Suitable for Use with Sodium Bicarbonate for the Same Purpose as Baking Powder.
Claims use since Dec. 26, 1929.

Ser. No. 295,493. RUTH PASKIN, doing business as Maison de Paris, New York, N. Y. Filed Feb. 1, 1930.

À JAMAIS

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Aftershaving Lotions, Pomades, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Jan. 20, 1930.

Ser. No. 295,511. EXCLUSIVE CHEMICALS, INC., Dallas, Tex. Filed Feb. 3, 1930.

GARGASOL

For Mouth Wash and Gargle.
Claims use since Jan. 20, 1930.

CLASS 10

Fertilizers

Ser. No. 292,542. THE MCQUEEN BACTERIA COMPANY, Baltic, Ohio. Filed Nov. 18, 1929.

HARDY LITTLE WORKERS
IN THIS PACKAGE OF
[redacted]
INOCULATOR

The surname constituting a part of the mark shown in the drawings is a facsimile of the name "McQueen" in the handwriting of one Jacob McQueen, president of the applicant's corporation. No claim is made to the exclusive appropriation of the expression "In This Package of," the notation "Dust-Kote," the word "Inoculator," or the abbreviated expression "Reg."
For Soil and Seed Inoculator.
Claims use since June, 1929.

CLASS 12

Construction Materials

Ser. No. 287,147. WILLIAM H. LUTTON COMPANY, Jersey City, N. J. Filed July 15, 1929.

SOLAR

For Greenhouses and Constructive Parts of Greenhouses—Namely, Glazing Bars, Rafters, Purlins, Sills, Gutters, Headers, Ridges, and Castings and Fittings for Joining These Various Parts Together; Glass Enclosures for Swimming Pools, Tennis Courts, and Solariums and Constructive Parts Thereof—Namely, Glazing Bars, Rafters, Purlins, Sills, Gutters, Headers, Ridges, and Castings and Fittings for Joining These Various Parts Together.
Claims use since Mar. 18, 1929.

Ser. No. 288,616. HOLDFAST MFG. COMPANY, Philadelphia, Pa. Filed Aug. 16, 1929.

WORLD'S BEST
FIRE-BRICK CEMENT

Applicant disclaims exclusive rights to all words appearing on the mark as applied for except in the association shown.
For Fire-Brick Cement.
Claims use since Nov. 6, 1928.

Ser. No. 292,862. BECKMAN-DAWSON ROOFING CO., Chicago, Ill. Filed Nov. 25, 1929.

CED-A-ROC
CEDAR + ASPHALT + ROCK

Applicant makes no claim to the words "Cedar, Asphalt, Rock" apart from the mark as shown.
For Coated Wooden Shingles.
Claims use since about Oct. 20, 1928.

Ser. No. 293,085. MANCHESTER ENGINEERING & WELDING CO., INC., Manchester, N. H. Filed Nov. 29, 1929.

MEWCO WELD

Applicant disclaims the word "Weld" apart from the trade-mark.
For Metal Stairs, Fire Escapes, Pipe Railings, Ornamental Railings, Grille Work, and Gratings.
Claims use since Nov. 1, 1929.

Ser. No. 293,558. HARRY C. SCHLOSSER, San Jose, Calif. Filed Dec. 11, 1929.

ONYXITE

For Imitation Marble.
Claims use since about May, 1927.

Ser. No. 294,378. AMIESITE ASPHALT COMPANY OF AMERICA, Camden, N. J., and Philadelphia, Pa. Filed Jan. 4, 1930.

Amatite

For Paving Material Comprising a Mineral Aggregate Intimately Mixed with a Bituminous Binder.
Claims use since on or about Dec. 28, 1929.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 290,943. FAGLEY & HALPEN, Philadelphia, Pa. Filed Oct. 11, 1929.

BABY GRAND

For Combination Utensils Having the Function of Dishwashers, Steam Cookers, and Cold-Pack Canners.
Claims use since Sept. 11, 1929.

Ser. No. 293,028. CONSOLIDATED FACTORIES, LTD., Santa Ana, Calif. Filed Nov. 29, 1929.

BROCK
TRADE MARK

No claim is made to the words "Trade Mark" apart from the mark shown in the drawing.
For Glass Drawer Knobs, Glass Drawer Pulls, and Glass Door Knobs.
Claims use since January, 1922.

Ser. No. 293,880. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed Dec. 19, 1929.



Applicant disclaims the representation of a tag per se and the words, "This Article Fitted with Guaranteed, Slide Fastener," and "Reg. U. S. Pat. Office" and "Always Works Cannot Rust" apart from the mark as shown on the drawing.
For Separable Fasteners of the Slider-Controlled Type.
Claims use since Sept. 26, 1929.

Ser. No. 294,321. W. A. RUSSELL & CO., New York, N. Y. Filed Jan. 2, 1930.

FREVENT

For Air Valves for Steam Radiators.
Claims use since Oct. 1, 1929.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 294,335. BAKER & COMPANY, INC., Newark, N. J. Filed Jan. 3, 1930.

EVERADIANT

For Metals of the Platinum Group.
Claims use since January, 1928.

CLASS 15

Oils and Greases

Ser. No. 293,390. UNITED STATES REFINING COMPANY, Los Angeles, Calif. Filed Dec. 7, 1929.

PURR PULL

For Oils and Greases or Petroleum Products Such as Gasoline, Motor Fuel Oils, and Lubricating Greases.
Claims use since June, 1929.

Ser. No. 294,058. E. T. CRITTENDEN, Denver, Colo. Filed Dec. 26, 1929.

TRADE MARK
GOLDEN
ARROW
MOTOR OIL

The words "Trade Mark" and the words "Motor Oil" are disclaimed apart from the mark as shown.
For Gasoline, Lubricating Oils, and Greases.
Claims use since Sept. 26, 1929.

Ser. No. 294,472. THE CANFIELD OIL COMPANY, Cleveland, Ohio. Filed Jan. 7, 1930.

Wm. Penn

For Lubricating Oils.
Claims use since about Dec. 1, 1928.

Ser. No. 294,831. THE TEXAS COMPANY, Wilmington, Del., and New York, N. Y. Filed Jan. 15, 1930.

LOVIS

For Petroleum Products—Viz, Lubricating Oils.
Claims use since July 25, 1929.

Ser. No. 294,973. HUEGEL-NUGENT PETROLEUM COMPANY, Chicago, Ill. Filed Jan. 20, 1930.

Old Faithful

For Lubricating Oil.
Claims use since Sept. 1, 1929.

CLASS 16

Paints and Painters' Materials

Ser. No. 271,463. ELLING O. WEEKS, doing business as Nu-Rex Products Co., Milwaukee, Wis. Filed Aug. 23, 1928.

Nu-Rex

For Surface Refinishing Liquids which are Compounds in the Nature of a Varnish or Lacquer.
Claims use since about July 1, 1928.

Ser. No. 287,440. ERWIN Z. FRANDS, doing business as Frands Sales Agency, Chicago, Ill. Filed July 22, 1929.

FRANCO

For Polish and Cleaner for Painted, Varnished, and Lacquered Surfaces.
Claims use since Mar. 1, 1929.

Ser. No. 294,083. OZARK SMELTING & MINING COMPANY, Chicago, Ill. Filed Dec. 26, 1929.

PERM-O-LITH

For Lithopone and Combinations of Lithopone with Zinc Oxide, White Lead, and Leaded Zinc Oxide, for Use in Paints.
Claims use since Oct. 22, 1929.

Ser. No. 295,028. HARRY W. HERWIG, doing business as Craftone Manufacturing Company, Boston, Mass. Filed Jan. 21, 1930.

CRAFTONE

For Plastic Paint.
Claims use since Jan. 17, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 283,553. CHRYSLER CORPORATION, Detroit, Mich. Filed May 6, 1929.

IMPERIAL

For Automobiles and Their Structural Parts.
Claims use since Oct. 27, 1928.

Ser. No. 292,161. F-S MFG. CO. INC., New Holstein, Wis. Filed Nov. 8, 1929.

SNOW BIRD

For Sled-Propulsion Attachments for Automobiles.
Claims use since Nov. 6, 1926.

Ser. No. 294,421. GRAHAM-PAIGE MOTORS CORPORATION, Dearborn, Mich. Filed Jan. 6, 1930.

PAIGE
COMMERCIAL
CAR

Applicant makes no claim to the words "Commercial Car" apart from the mark as shown.
For Commercial Motor Cars, Chassis, and Constructive Parts.
Claims use since about Dec. 31, 1929.

Ser. No. 295,371. HARLEY-DAVIDSON MOTOR COMPANY, Milwaukee, Wis. Filed Jan. 30, 1930.

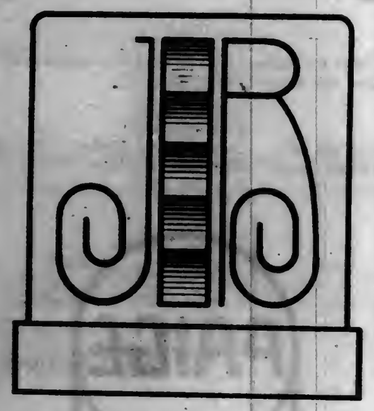
MOTOR
HARLEY-DAVIDSON
CYCLES

No claim made to the words "Motor Cycles" apart from the remainder of the mark. Applicant is owner of trade-mark registrations No. 98,504, No. 124,714, No. 127,187, No. 135,864, and No. 264,802.
For Motor Cycles.
Claims use since May 6, 1910.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 268,910. BOUY INCORPORATED, New York, N. Y. Filed June 30, 1928.



For Electric Floor Lamps, Table Lamps, and Ceiling Fixtures.
Claims use since Aug. 29, 1927.

Ser. No. 277,198. BURNDY ENGINEERING COMPANY, INC., New York, N. Y. Filed Dec. 26, 1928.

BURNDY

For Electrical Conductor Tube, Copper Conductor Cable, T-Connectors, Couplers, Elbows, Terminals, Braces, Corona Bells, Studs, Clamps, Clips, Bus Supports, Groundalls, Expansion Joints, Bolts, Nuts, Turnbuckles, and Pole-Line Hardware, All for Use in Connection with Electrical Equipment.
Claims use since 1924.

Ser. No. 278,924. THE BALDWIN COMPANY, Cincinnati, Ohio. Filed Feb. 6, 1929. Under section 5b of the act of 1905 as amended in 1920.

HAMILTON

Applicant is owner of trade-mark registration No. 47,072.
For Radio Receiving Sets and Loud-Speakers, Antennæ, Transformers, Induction Coils, Tube Sockets, Resistance Units, Rheostats, Condensers, and Loading Coils, Choke Coils, Inductances; and Resistance Devices, Inductive and Noninductive for Use in Connection Therewith.
Claims use since Jan. 28, 1929.

Ser. No. 289,304. RODALE MANUFACTURING COMPANY, New York, N. Y. Filed Sept. 3, 1929.



For Electrical Wiring Devices, Electrical Specialties and Electrical Heating Devices Known to the Trade as Electrical Switches, Plugs, Push Buttons, Outlets, Pendant Switches, Camp Fixtures, Lamp Sockets, Lighting Fixtures, Connectors, Resistance Units as Used in Rheostat and Radio Apparatus; Heating Units as Utilized in Electric Toasters, Ovens, Radiators for Industrial and Domestic Purposes; Transformers; Moulded Articles Known as Electric Wall Plates, Buttons, Shields, Cord Adjusters, and Moulded Members Forming Parts in Electric Wiring Devices.
Claims use since May 8, 1928.

Ser. No. 289,425. TIME-O-STAT CONTROLS COMPANY, Elkhart, Ind. Filed Sept. 6, 1929.

TIME-O-STAT

For Automatic Electric Temperature, Pressure, Float, and Time Responsive Devices and Replacement Parts Thereof for Controlling Gas, Oil, and Coal Burners and for Controlling Electric Refrigerators, Mechanical Stokers, Furnace Fans, Industrial Ovens, Ice Machines, Unit Heaters, and Water Heaters; Also Sign Flashers, Mercury Switches, Electric Air Heaters for Maintaining Substantially-Uniform Temperature in Pipe-Organ and Other Chambers, Electric Motors, Magnetically-Operated Gas Valves, Magnetically-Operated Oil Valves, and Relay Switches.
Claims use since June 16, 1928.

Ser. No. 291,175. PRESTO ELECTRIC ROASTER COMPANY, Pittsburgh, Pa. Filed Oct. 17, 1929.

PRESTO

For Electric Meat Roasters.
Claims use since on or about May 1, 1929.

Ser. No. 291,371. WILLIAM P. VERDON, Sr., Hoboken, N.J. Filed Oct. 21, 1929.

LEMONLITE

For Electric Nonglare Fog-Penetrating Lights.
Claims use since Oct. 7, 1929.

Ser. No. 292,838. SELECTRIC PHONOGRAPH AND RADIO CORPORATION, Grand Rapids, Mich. Filed Nov. 28, 1929.

The Selectric
"It's almost human"

For Radio Receiving Sets Adapted for Combination with Phonographs.
Claims use since July 15, 1929.

Ser. No. 293,388. THOMSON-GIBB ELECTRIC WELDING COMPANY, Lynn, Mass. Filed Dec. 7, 1929.

THOMSON
PRODUCTION WELDERS
GIBB

Applicant disclaims the right to the exclusive use of the words "Production Welders" apart from the mark shown in the drawing.
For Electric Metal-Working Apparatus—Namely, Machines and Devices for Electric Welding, Heating, Forging, Riveting, Brazing, Soldering, and Shaping of Metals; and Also Transformers, Reactive Coils, Switches, and Parts for Such Apparatus.
Claims use since Nov. 1, 1929.

Ser. No. 293,810. AVIATION ACCESSORIES CORPORATION, San Francisco, Calif. Filed Dec. 17, 1929.

Thermo-Pete

For Device for Heating the Oil in Internal-Combustion Engines in Circulating Electric Heaters.
Claims use since Apr. 16, 1929.

Ser. No. 294,897. SOCIÉTÉ DES MAGNÉTOS R. B., Paris, France. Filed Jan. 17, 1930.

RESERWATT

For Electric Battery for the Ignition of Combustion Engines.
Claims use since Mar. 14, 1929.

Ser. No. 295,258. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Jan. 27, 1930.

GM

For Radio Receiving Sets and Parts Thereof.
Claims use since Nov. 20, 1929.

Ser. No. 295,280. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 27, 1930.

CONQUEROR

For Electric Sadirons.
Claims use since June 1, 1929.

Ser. No. 295,294. DEWEY & ALMY CHEMICAL COMPANY, North Cambridge, Mass. Filed Jan. 28, 1930.

DAREX

For Separator Plates for Storage Batteries.
Claims use since Jan. 18, 1930.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 294,261. JAKOPEC-SAMU COMPANY, Chicago, Ill. Filed Dec. 31, 1929.

The Comet
Self-Figuring Magic Cards

No claim being made to the words "The New Self-Figuring Magic Cards" apart from the mark shown.
For Game Consisting of Self-Figuring Magic Cards or Fortune-Telling Cards.
Claims use since Dec. 21, 1929.

Ser. No. 295,309. THE UNITED STATES PLAYING CARD CO., Norwood, Ohio. Filed Jan. 28, 1930.

Sentinel

For Playing Cards.
Claims use since Dec. 5, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 287,600. TWIN COUPLER COMPANY, INC., Poughkeepsie, N. Y. Filed July 24, 1929.

Pure Juice

The drawing is lined to indicate the color orange. No claim is made to the expression "Pure Juice" apart from the mark as shown on the drawing.
For Fruit-Juice Extractors of the Hand-Operated Type.
Claims use since May 25, 1929.

Ser. No. 289,468. THE MACLEOD MANUFACTURING CO., INC., Chicago, Ill., assignor to A. F. Dormeyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 7, 1929.

WIZARD ON GLASS

The words "On Glass" are disclaimed apart from the mark shown.

For Scrapers for Glass, Wood, Metal, Paint, and Other Materials, and in General, Cutlery of the Type Comprising a Razor Blade and a Detachable Handle or Support.

Claims use since Apr. 29, 1922.

Ser. No. 290,506. FERGUS & PALMER, Cleveland, Ohio. Filed Oct. 2, 1929.

SAMARITAN

For Coin-Controlled or Slug-Controlled Merchandise-Dispensing Devices and Parts of Such Devices.

Claims use since Sept. 14, 1929.

Ser. No. 290,647. THE BILLINGS & SPENCER COMPANY, Hartford, Conn. Filed Oct. 4, 1929.

BILLINGS

B

The word "Billings" is disclaimed apart from the mark shown in the drawing.

For Tools and for Machinery, Including All Kinds and Types of the Following Goods: Wrenches, Tongs, Clamps, Dogs, Pliers, Vises, Wrench Sockets, Punches, Chisels, Screw Drivers, Drifts, Drill Sockets, Reamer Holders, Ratchet Drills, Hammers, Handles, Cotter-Pin Tools, Nurling Tools, Cutting-Off Tools and Holders, and All Combinations of Such Tools, Drop Hammers, Die-Sinking Machines, Trimming Presses, Milling Machines, Trimming Millers.

Claims use since Apr. 1, 1926.

Ser. No. 292,548. ONSRUD MACHINE WORKS, INC., Chicago, Ill. Filed Nov. 18, 1929.



No claim is made to the machine element shown in the drawing apart from the mark as shown.

For Woodworking Machinery—Namely, Automatic Shapers, High-Speed Shapers, High-Speed Buck Shapers, Heavy-Duty Routers, Portable Routers, Spindle Carvers, Automatic Scarfers, Automatic Rosette Machines, Bending Presses, Pneumatic Clamp Tables, Pneumatic Turbines.

Claims use since November, 1927.

Ser. No. 293,924. KELLER MECHANICAL ENGINEERING CORPORATION, Brooklyn, N. Y. Filed Dec. 20, 1929.

KELLERFLEX

For Portable and Flexible Shaft Bench Grinders and Parts Thereof.

Claims use since Aug. 1, 1927.

Ser. No. 294,694. STAR CAN OPENER COMPANY, San Francisco, Calif. Filed Jan. 11, 1930.

DEL MONTE

For Can Openers.

Claims use since Dec. 31, 1929.

Ser. No. 295,305. ROYAL TYPEWRITER COMPANY, INC., New York, N. Y. Filed Jan. 28, 1930.



For Typewriting Machines and Parts Thereof.

Claims use since October, 1911.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 293,834. HYDE MANUFACTURING COMPANY, Southbridge, Mass. Filed Dec. 18, 1929. Under section 5b of the act of 1905, as amended in 1920.

I. P. HYDE

For Plumb Bobs, Straightedges, Rules, and Chalk Lines.

Claims use since Aug. 22, 1928.

Ser. No. 294,960. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Jan. 20, 1930.

BROWNIE

For Photographic Cameras, Photographic Film, Photographic Developing Boxes, Printing Frames, Photographic Safe Light, Photographic Safe-Light Lamps, Photographic Carrying Cases, Photographic Finders, and Photographic Tripod Adapters.

Claims use since Jan. 1, 1901.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 276,807. THE DELTA CHI FRATERNITY, Iowa City, Iowa. Filed Dec. 5, 1928.



DELTA CHI

For Fraternity Lapel Buttons of Precious Metal.

Claims use since February, 1916.

Ser. No. 287,256. KESTENMAN BROS. MFG. CO., Providence, R. I. Filed July 17, 1929.

HANDI-FOLD

No claim is made to exclusive right to the use of the word "Fold" apart from the mark shown.

For Wrist-Watch Bracelets.

Claims use since Feb. 12, 1927.

Ser. No. 290,664. J. ROGERS SILVER CO., New York, N. Y. Filed Oct. 4, 1929.

1901 ROGERS 1901

For Silver-Plated Articles of Hollow or Flat Ware for Domestic Table Use.

Claims use since July 1, 1901.

Ser. No. 292,804. GREAT COUNCIL OF THE UNITED STATES OF THE IMPROVED ORDER OF RED MEN, Philadelphia, Pa. Filed Nov. 23, 1929.



For Badges, Emblems, Finger Rings, Ornamental Pins, Lapel Buttons, Watch Charms, and Other Insignia of the Improved Order of Red Men, All Made of or Plated with Precious Metal.

Claims use since Nov. 2, 1929.

Ser. No. 293,896. QUAKER SILVER COMPANY, Attleboro, Mass. Filed Dec. 19, 1929.



No registration rights are claimed for the word "Silver" apart from the mark shown in the drawing.

For Salt and Pepper Shakers, Candlesticks, Vases, Atomizers, and Casters, All Made of or Plated with Precious Metal.

Claims use since February, 1926.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 284,899. CALSODENT COMPANY, INC., New York, N. Y. Filed June 1, 1929.

CAL-SO-DENT

For Toothbrushes.

Claims use since about May 1, 1929.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 286,952. PORZELLANFABRIK WALDERSHOF AKTIENGESELLSCHAFT VORMALS JOHANN HAVILAND, Waldershof, Germany. Filed July 11, 1929.



The trade-mark is usually applied or affixed to the goods by a stamp under the glaze in dark green or on the glaze in green, red, or brown colour and then burnt in.

For Porcelain Ware.

Claims use since June 1, 1927.

CLASS 32

Furniture and Upholstery

Ser. No. 288,635. BELKNAP HARDWARE & MANUFACTURING COMPANY, Louisville, Ky. Filed Aug. 17, 1929.

SLUMBER DEEP

For Mattresses.

Claims use since July 10, 1929.

Ser. No. 288,655. KIEFER STEWART COMPANY, Indianapolis, Ind. Filed Aug. 17, 1929.

K-S

For Display Stand for Store-Counter Merchandise.
Claims use since July 17, 1929.

Ser. No. 293,912. ADVERTISING DISPLAYS, INC., Covington, Ky. Filed Dec. 20, 1929.

"TRU-TU-LIFE"

For Advertising Display Devices in the Nature of Miniature Set Stage.
Claims use since on or about Nov. 30, 1928.

Ser. No. 294,317. THE NORTHWESTERN UPHOLSTERING COMPANY, Minneapolis, Minn. Filed Jan. 2, 1930.

Tru-Bilt

For Davenports, Chairs, Boudoir Chairs, Rocking-Chairs, Chaise Longues, Benches, Stools, and Ottomans.
Claims use since on or about May 1, 1928.

Ser. No. 294,773. THE HOUSH COMPANY, INC., Boston, Mass. Filed Jan. 14, 1930.

GREENWITCH

For Picture Frames.
Claims use since Jan. 10, 1930.

CLASS 33

Glassware

Ser. No. 289,884. ENY ART, INC., New York, N. Y. Filed Sept. 17, 1929.

ENY ART

For Glass Valances and Pieces of Decorated and Carved Glass Employed in the Structure of Show Windows.
Claims use since about Oct. 29, 1928.

Ser. No. 295,525. MACBETH-EVANS GLASS COMPANY, Charleroi, Pa. Filed Feb. 8, 1930.

OPALAX

For Glass Globes.
Claims use since Jan. 18, 1930.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 287,599. TWIN COUPLER COMPANY, INC., Poughkeepsie, N. Y. Filed July 24, 1929.

BRE-Z-LITE

For Pyrophoric Cigarette and Cigar Lighters.
Claims use since May 22, 1929.

Ser. No. 293,311. BERG HEATING AND VENTILATING CO., Los Angeles, Calif. Filed Dec. 6, 1929.

"SPECIFIED BERG ATMOSPHERE"

No claim is made to the words "Specified Atmosphere" apart from the mark as shown.
For Heating Systems, Ventilating Systems, Cooling Systems, Air-Conditioning Systems, Drying Systems, Dehydrating Systems, Humidification Systems, and Dehumidification Systems.
Claims use since Dec. 15, 1926.

Ser. No. 293,877. ECONOMY STOKER COMPANY, Salt Lake City, Utah. Filed Dec. 19, 1929.

ECONOMY STOKER

No claim is made for the word "Stoker" apart from the mark shown in the drawing.
For Stokers.
Claims use since July 8, 1928.

Ser. No. 294,079. LEE B. METTLER, doing business as Lee B. Mettler Co., Los Angeles, Calif. Filed Dec. 26, 1929.

EXPERTO CREDE

For Gas and Oil Burners, Combination Gas and Oil Burners, Fire Pots, Combustion Chambers.
Claims use since on or about Oct. 1, 1929.

Ser. No. 294,091. SMITH & NICHOLS, INC., New York, N. Y. Filed Dec. 26, 1929.

FORMALITES

For Wax Lamps and Candlesticks.
Claims use since Dec. 13, 1929.

Ser. No. 294,324. TUTTLE & BAILEY MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 2, 1930.

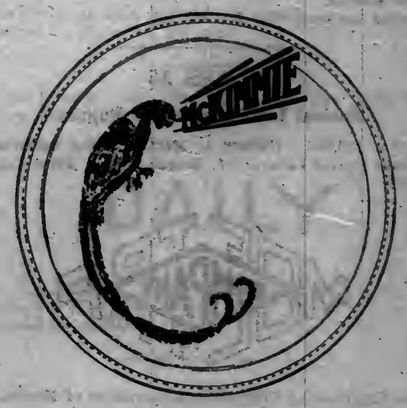
Flapper

For Heating Registers.
Claims use since Sept. 12, 1929.

CLASS 35

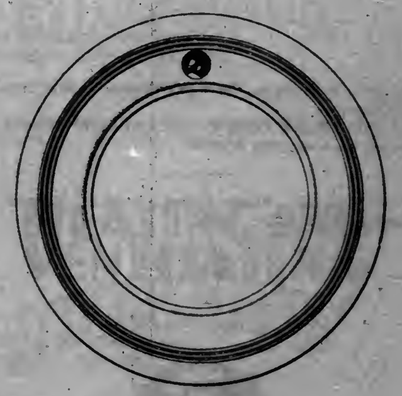
Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 275,584. MCKIMMIE MOTOR CO. INC., Richmond, Va. Filed Nov. 19, 1928.



The representation of the tire cover shown in the drawing is disclaimed without qualification. The lining in the drawing indicates colors as follows: red, green, and yellow.
For Covers for the Spare Tires of Automobiles.
Claims use since 1926.

Ser. No. 276,417. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Dec. 7, 1928.



The trade-mark consists of the representation of two eagles displayed within a circle and two spaced substantially concentric stripes or bands disposed centrally of a tire casing and placed symmetrically on opposite sides thereof, all of which is silver in color. No claim is made to the representation of a tire shown in the drawing.
For Pneumatic and Solid Tires Constructed Wholly or Partly of Rubber and Used for Motor Trucks, Motor Cars, Motor Cycles, Bicycles, Aeroplanes, and Other Vehicles.
Claims use since May 11, 1928.

Ser. No. 292,238. VICTOR MANUFACTURING & GASKET COMPANY, Chicago, Ill. Filed Nov. 9, 1929.

FOLD-O-BOX

No claim is made to the word "Box" apart from its association with the mark.
For Gaskets.
Claims use since July 5, 1927.

CLASS 36

Musical Instruments and Supplies

Ser. No. 286,647. GEORGE L. MILLER, doing business as Miller Dental Laboratory, Boston, Mass. Filed July 5, 1929.



For Ligatures or Clamps for Mouthpieces of Musical Instruments.
Claims use since January, 1929.

CLASS 37

Paper and Stationery

Ser. No. 285,477. SCOTT PAPER COMPANY, Chester, Pa. Filed June 12, 1929.

Sani-Tissue

No claim is made to the word "Tissue" apart from the mark shown.
For Toilet Paper, Paper Towels, and Paper Napkins.
Claims use since May 9, 1929.

Ser. No. 285,478. SCOTT PAPER COMPANY, Chester, Pa. Filed June 12, 1929.

Sani-Tissue



No claim is made to the word "Tissue" apart from the mark shown. The bust picture of the Red Cross nurse and forming a part of the trade-mark is fanciful. The shading upon the drawing illustrating the trade-mark is for the purpose of shading only.
For Toilet Paper, Paper Towels, and Paper Napkins.
Claims use since May 9, 1929.

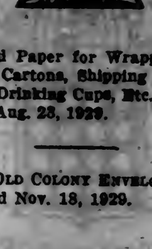
Ser. No. 290,114. DANIEL A. BRENNAN, Chicago, Ill. Filed Sept. 23, 1929.

BRENCO

For Fasteners and Binders for Binding and Holding Loose Papers Together.
Claims use since Sept. 21, 1929.

Ser. No. 292,111. KELLOGG BOX BOARD COMPANY, Chicago, Ill. Filed Nov. 7, 1929.

DRYCO



For Waterproofed Paper for Wrapping Foodstuffs and for Use in Making Cartons, Shipping Containers, Cement Sacks, Paper Bags, Drinking Cups, Etc.
Claims use since Aug. 23, 1929.

Ser. No. 292,546. OLD COLONY ENVELOPE COMPANY, Westfield, Mass. Filed Nov. 18, 1929.

Mailpoint

For Envelopes.
Claims use since Sept. 13, 1929.

Ser. No. 292,607. AMERICAN LOOSE LEAF CORPORATION, New York, N. Y. Filed Nov. 20, 1929.

YOUR STATIONER RENDERS YOUR BUSINESS AN INVALUABLE SERVICE

Applicant disclaims the right to the exclusive use of the expression: "Your Stationer Renders Your Business an Invaluable Service."
For Loose-Leaf Binders.
Claims use since Nov. 1, 1929.

Ser. No. 293,051. KAUFMANN BROS. & BONDY, INC., West New York, N. J. Filed Nov. 29, 1929.



For Fountain Pens.
Claims use since June 1, 1929.

Ser. No. 293,975. HENRY JARISCH, Jr., Holyoke, Mass. Filed Dec. 21, 1929.

The JARISCH HEALTH GUARD ROLL

The words "Jarisch" and "Roll" are disclaimed apart from the other features of the mark shown in the drawing.
For Toilet Paper, Paper Towels, Paper Napkins.
Claims use since Aug. 22, 1929.

Ser. No. 294,593. POND'S EXTRACT COMPANY, New York, N. Y. Filed Jan. 9, 1930.



No claim is made to any of the wording appearing in the mark, with the exception of the word "Pond's," apart from the mark shown in the drawing.
For Tissue Paper for Removing Cold Cream.
Claims use since Nov. 29, 1929.

Ser. No. 295,029. HOWARD PAPER COMPANY, INC., Boston, Mass. Filed Jan. 21, 1930.



For Die-Wiping Paper.
Claims use since Sept. 10, 1925.

Ser. No. 295,225. FRANCIS BYRNE IVY, New York, N. Y. Filed Jan. 25, 1930.

INKQUADUCT

For Fountain Pens and Parts Thereof.
Claims use since Jan. 10, 1930.

Ser. No. 295,350. SWAN PENCIL CO. INC., New York, N. Y. Filed Jan. 29, 1930.

DAILY

For Lead Pencils, Colored Pencils, Copying Pencils, Ink Pencils, and Penholders.
Claims use since Jan. 1, 1930.

CLASS 38

Prints and Publications

Ser. No. 286,968. AMERICAN BUREAU OF CHIROPRACTIC, New York, N. Y. Filed July 11, 1929.

CHIROPRACTIC NEWS

For Printed Publication.
Claims use since July 18, 1927.

Ser. No. 287,358. NATIONAL TRADE JOURNALS, INC., New York, N. Y. Filed July 19, 1929.

HEATING AND VENTILATING

For Monthly Publication.
Claims use since June, 1904.

Ser. No. 290,138. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Sept. 23, 1929.

FOUNTAINAIRE

For Periodical.
Claims use since Aug. 5, 1929.

Ser. No. 292,791. M. D. BERLITZ, PUBLISHER, New York, N. Y. Filed Nov. 23, 1929.

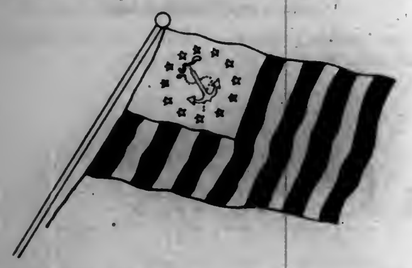
THE

TO

FOREIGN LANGUAGES

No exclusive claim to the words "The" or "To Foreign Languages" is made apart from the mark as shown.
For Printed Books and Charts.
Claims use since Nov. 6, 1929.

Ser. No. 292,913. UNITED STATES POWER SQUADRONS, INC., Washington, D. C. Filed Nov. 25, 1929.



For Magazines and Instruction Sheets Issued from Time to Time.
Claims use since Feb. 2, 1914.

Ser. No. 293,827. GENERAL PRINTING INK CORPORATION, New York, N. Y. Filed Dec. 18, 1929.

Falcographs

For Periodical Publication Devoted to the Practical and Technical Discussion of Material and Machinery Used in the Graphic Arts.
Claims use since about May 5, 1929.

Ser. No. 294,038. NEW YORK AUTOMOBILE CLUB, INC., New York, N. Y. Filed Dec. 24, 1929.

TRAVEL-TOUR

The drawing is lined to indicate shading only.
For Periodical Publications.
Claims use since Dec. 2, 1929.

Ser. No. 295,279. DAVID SCHWARTZ, New York, N. Y. Filed Jan. 27, 1930.

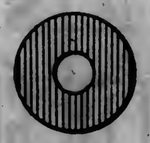
Scanning the Jewish Horizon

For a Column or Section of a Newspaper or Magazine Published Weekly.
Claims use since October, 1929.

CLASS 39

Clothing

Ser. No. 284,433. THE ANSONIA O & C COMPANY, Ansonia, Conn. Filed May 22, 1929.



The trade-mark consists of an annulus colored pink applied to the top of the button of the hose-supporter grip. The drawing is lined for pink.
For Hose Supporters and Hose-Supporter Grips.
Claims use since on or about Aug. 17, 1927.

Ser. No. 285,440. JOSEPH G. BAUM, New York, N. Y. Filed June 12, 1929.

"REP"

GET A "REP" FOR YOURSELF

No claim being made to the exclusive use of the word "Rep" apart from the mark as shown in the drawing.
For Men's and Boys' Underwear and Men's and Boys' Athletic Shirts and Trunks of Knitted and Textile Fabrics.
Claims use since Apr. 29, 1929.

Ser. No. 287,180. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed July 16, 1929.



For Underwear of Knitted or Textile Fabrics and Hats for Men, Women, and Children; Gloves and Shoes Made of Fabrics or Leather, or Both; Stockings, Corsets, Neckties, and Suspenders, All Dyed with Fast Colors.
Claims use since July, 1928.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 287,717. LORENZO A. R. POWER, doing business as Kaufmann Department Stores, Inc., Pittsburgh, Pa. Filed July 26, 1929.

Windshield

For Mufflers and Scarfs for Men, Women, and/or Children.
Claims use since Nov. 13, 1928.

Ser. No. 287,749. FOREST CITY MFG. CO., St. Louis, Mo. Filed July 27, 1929.

Dain-Tea

For Outer Wearing Apparel for Women and Girls—Namely, Pinafore Aprons.
Claims use since June 1, 1929.

Ser. No. 288,745. FIELD & FLINT CO., Brockton, Mass. Filed Aug. 20, 1929.

FOOT-JOY

For Boots and Shoes Made of Leather and Combinations of Leather and Fabric.
Claims use since May, 1920.

Ser. No. 288,773. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Aug. 21, 1929.

Félice

For Women's and Girls' Dresses, Coats, Leather Shoes; Women's and Misses' Hats, and Underwear Comprising Negligees, Gowns, Chemises, Petticoats, Underdrawers, Bloomers, Vests, Bandeaux, Slips, Brassières, Girdles, and Garter Belts and Combinations of the Same.
Claims use since Nov. 14, 1923.

Ser. No. 290,021. MORTON H. GOLDENBERG, doing business as Goldenberg's, Washington, D. C. Filed Sept. 20, 1929.

GOLDEN

ENGLISH



No claim being made to the word "English" apart from the mark as shown.
For Men's Dress and Negligee Shirts, Men's Knitted and Textile Underwear, and Men's Pajamas.
Claims use since Sept. 6, 1929.

Ser. No. 290,636. JOHN WANAMAKER NEW YORK, New York, N. Y. Filed Oct. 3, 1929.

EXPERTIZED

For Men's, Women's, and Children's Bath Robes, Shoes Made of Leather, Hats, Pajamas, Boys' and Youths' Suits, Overcoats, Shirts, Sweaters; Neckwear—Namely, Boys' Ties and Girls' Collar and Cuff Sets; Girls' and Juniors' Dresses, Coats, Ensembles, Sweaters, and Skirts.
Claims use since Sept. 6, 1929.

Ser. No. 291,387. GARMENT SALES COMPANY, New York, N. Y. Filed Oct. 22, 1929.

Roymoor

For Ladies' and Misses' Coats Composed of Cotton, Wool, and Silk, and Mixtures Thereof.
Claims use since July 1, 1928.

Ser. No. 291,630. MOCK, JUDSON, VOEHRINGER CO. INC., Long Island City, N. Y. Filed Oct. 26, 1929.

Diptgrain

For Hosiery.
Claims use since Mar. 10, 1929.

Ser. No. 292,383. M. VIDAL ALVAREZ & CO., Ponce, P. R. Filed Nov. 14, 1929.

Dominant

For Men's and Boys' Suits and Overcoats.
Claims use since Aug. 25, 1929.

Ser. No. 292,453. I. LEVENTHAL AND SONS, West Brighton, N. Y. Filed Nov. 15, 1929.

TOWER SHOES

The applicant disclaims the right to the exclusive use of the word "Shoes."
For Foot Apparel Comprising Men's, Ladies', and Children's Boots and Shoes Made of Leather.
Claims use since July 7, 1929.

Ser. No. 293,003. JACOB MILLER'S SONS CO., Philadelphia, Pa. Filed Nov. 27, 1929.



designed by
EAGLE SHIRTMAKERS

No claim being made to the words "Designed by Shirtmakers" apart from the mark shown in the drawing.
For Neckties.
Claims use since Nov. 7, 1929.

Ser. No. 293,730. HANDMACHER-MICHEL COMPANY, Chicago, Ill. Filed Dec. 16, 1929.

HEATHER DOWN

The exclusive right to the use of the word "Heather" apart from the other features of the trade-mark is hereby disclaimed.
For Women's and Misses' Coats.
Claims use since Dec. 1, 1928.

Ser. No. 293,904. STRAWBRIDGE & CLOTHIER, Philadelphia, Pa. Filed Dec. 19, 1929.

PEMBROKE

No claim being made to the word "Pembroke" apart from the mark as shown.
For Men's Leather Gloves.
Claims use since Aug. 1, 1929.

Ser. No. 293,947. ARNOLD SHIRT COMPANY, New York, N. Y. Filed Dec. 21, 1929.



Smartly Tailored

The words "Smartly Tailored" are disclaimed apart from the mark shown in the drawing.
For Men's and Boys' Dress, Sport, and Negligee Shirts.
Claims use since January, 1927.

Ser. No. 294,202. THE BEACON FALLS RUBBER SHOE COMPANY, Beacon Falls, Conn. Filed Dec. 30, 1929.

TAILORED Smartics

The exclusive right to "Tailored" is disclaimed apart from the combination shown.
For Arctics.
Claims use since Nov. 14, 1929.

Ser. No. 294,248. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Dec. 31, 1929.

VISCATEEN

For Underwear of Woven and Knitted Fabrics for Men, Women, and Children.
Claims use since Dec. 27, 1929.

Ser. No. 294,362. M. H. RAAB CO., INC., Philadelphia, Pa. Filed Jan. 3, 1930.

STAYFIT

For Men's Dress, Negligee, and Work Shirts.
Claims use since Nov. 1, 1929.

Ser. No. 294,372. WISCASSETT MILLS COMPANY, Albemarle, N. C. Filed Jan. 3, 1930.

Canopus

For Hosiery.
Claims use since Dec. 7, 1929.

Ser. No. 294,543. REYNIER & CO., New York, N. Y. Filed Jan. 8, 1930.

RUFFLE DOWN

No claim being made to the exclusive use of the representation of the glove per se apart from the mark as shown in the drawing.
For Leather and Fabric Gloves.
Claims use since Dec. 30, 1929.

Ser. No. 294,612. BRADSTONE RUBBER COMPANY, Woodbine, N. J. Filed Jan. 10, 1930.



DOWNY

For Rubber Heels.
Claims use since Oct. 10, 1929.

Ser. No. 294,660. THE BEANFOOT SOLE COMPANY, INC., Boston, Mass. Filed Jan. 11, 1930.

AIRWAY

For Soles of Rubber Composition or Its Equivalent for Boots and Shoes.
Claims use since about Oct. 1, 1929.

Ser. No. 294,855. NUNNALLY & MCCREA CO., Atlanta, Ga. Filed Jan. 16, 1930.

BIG PETE

For Overalls, Work Jackets, Work Shirts, and Work Pants for Men and Boys.
Claims use since May, 1928.

Ser. No. 294,856. NUNNALLY & MCCREA CO., Atlanta, Ga. Filed Jan. 16, 1930.

FULL SPEED

For Overalls, Work Jackets, Work Shirts, and Work Pants for Men and Boys.
Claims use since May, 1928.

Ser. No. 294,878. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Jan. 17, 1930.

CORDOLITE

For Negligee and Dress Shirts.
Claims use since Jan. 7, 1930.

Ser. No. 294,879. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Jan. 17, 1930.

SHANTONO

For Negligee and Dress Shirts.
Claims use since Jan. 7, 1930.

Ser. No. 294,880. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Jan. 17, 1930.

ENDTONO

For Negligee and Dress Shirts.
Claims use since Jan. 7, 1930.

Ser. No. 294,881. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Jan. 17, 1930.

OXTONO

For Negligee and Dress Shirts.
Claims use since Jan. 7, 1930.

Ser. No. 294,912. THE BLACK MANUFACTURING CO., Seattle, Wash. Filed Jan. 18, 1930.

KODIAK

For Flannel Shirts, Work Shirts, Negligee Shirts.
Claims use since April, 1927.

Ser. No. 294,929. FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Jan. 18, 1930.

Souplette

For Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pajamas, Dress Shirts, Undershirts, Nightshirts, Sweat Shirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Scarfs, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Norfolk Suits, Sack Suits, Trousers, Blouses, Belts for Outside Wear, Neckties, Garters, Suspenders, Lumber Jackets, Knickerbockers, Hats and Caps Made Out of Textile Material; and Gloves, Sweaters, Scarfs, Mufflers, Bathing Suits, Swimming Suits, Drawers, Undershirts, Hats and Caps Made Out of Knitted Material; and for Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Riding Suits, Under and Outer Skirts, Scarfs, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations Consisting of Vests and Drawers, Bath Robes, Shirt Waists, Gloves, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Rain Capes, Sport Coats, Blazer Coats, Hats, Caps, Capes, Coats, Blouses, Jumpers, Knickerbockers, Kimonos, Lounging Robes, Bathing Capes, Bathing Hats, Brassières, Step-In Drawers, Bloomers, Pajamas, Costume Slips, Under and Outer Shirts, Shawls, Collars, Cuffs, Belts for Outside Wear, Riding Habits, Riding Breeches, Smocks, Middy Blouses, Ostrich Boas, Nurses' Dresses, Coats, Capes, and Bonnets Made out of Textile Material; and Dresses, Corsets, Tailored Suits, Walking Suits, Sports Suits, Golf Suits, Riding Suits, Outer Skirts, Outer and Under Shirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations Consisting of Vests and Drawers, and Bath Robes, Shirt Waists, Bathing Suits, Swimming Suits, Bathing Capes, Bathing Hats, Dressing Gowns, Sweaters, Mufflers, Hosiery, Sports Coats, Blazer Coats, Hats, Caps, Capes, Coats, Blouses, Jumpers, Knickerbockers, Kimonos, Lounging Robes, Brassières, Step-In Drawers, Bloomers, Pajamas, Costume Slips, Shawls, Collars, Cuffs, Belts for Outside Wear, Riding Habits, Riding Breeches, Smocks, Middy Blouses, Scarfs, Gloves, Nurses' Coats, Capes, and Bonnets Made out of Knitted Material; and for Infants' Furnishings, Undergarments, and Clothing—Namely, Rompers, Caps, Shirt Bands, Sacques, Wrappers, Booties, Underwear, Coats, Dresses, Bath Robes, and Sweaters Made Out of Textile Material; and Rompers, Caps, Shirt Bands, Sacques, Wrappers, Booties, Underwear, Coats, Dresses, Bath Robes, and Sweaters Made out of Knitted Material; and for Men's, Women's, and Boys' and Girls' Suede Jackets, Leather Coats, Shoes (High and Low), Overshoes, Galoshes, Rubbers, Sandals, Boots, Oxfords, Slippers, Leggings, Puttees Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Material; and for Infants' Booties and Shoes Made out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Materials; and Leather and Fabric Gloves for Men, Women, Boys, and Girls; and Fur Coats and Fur Scarfs.
Claims use since Jan. 9, 1930.

Ser. No. 294,936. VAN RAALTE COMPANY, New York, N. Y. Filed Jan. 18, 1930.

VR-NAISE

For Women's and Children's Knitted Silk and Rayon Underwear.
Claims use since Jan. 13, 1930.

Ser. No. 294,998. THE STEP-IN-ALL UNDERWEAR CORPORATION, Springfield, Mass. Filed Jan. 20, 1930.

POLORAY

For Sport Shirts for Men, Women, and Children.
Claims use since May 15, 1929.

Ser. No. 295,011. BOY-CRAFT, INC., New York, N. Y. Filed Jan. 21, 1930.

Boy-Craft

For Boy's Blouses, Shirts, and Pajamas.
Claims use since Jan. 16, 1930.

Ser. No. 295,129. NEW ENGLAND WOOD HEEL CO., Haverhill, Mass. Filed Jan. 23, 1930.



For Wood Heels.
Claims use since August, 1928.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 288,042. THE WILCOX NOVELTY COMPANY, Athol, Mass. Filed Aug. 2, 1929.

Wilcox

The trade-mark is a facsimile of the signature of Mr. J. S. Wilcox, the treasurer of the said corporation.
For Bob Sets, Comprising Sets of Combs for Bobbed Hair; Buttonhooks, Combs, Shoehorns; and Toilet Sets, Comprising Combs, Brushes, Buttonhooks, Nail Buffers, and Nail Files.
Claims use since July 15, 1926.

Ser. No. 293,948. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 21, 1929.

MEADOW



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since September, 1926.

Ser. No. 293,949. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 21, 1929.

DAFFODIL



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since September, 1926.

Ser. No. 293,950. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 21, 1929.

MAYFAIR



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since September, 1926.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 276,693. MORTON H. GOLDENBERG, doing business as "Goldenberg's," Washington, D. C. Filed Dec. 14, 1928.

LUXEDO

For Textile Bath Mats and Awning Fabrics.
Claims use since Sept. 20, 1928.

Ser. No. 278,592. ALBERT GODDE, BEDIN, INC., New York, N. Y. Filed Jan. 29, 1929.

CREPE RODEO

No rights are asserted to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Dress Fabrics of Silk Sold in the Piece.
Claims use since Feb. 3, 1928.

Ser. No. 284,911. KNOX HAT COMPANY, INC., New York, N. Y. Filed June 1, 1929.



For Handkerchiefs and Veils.
Claims use since 1910.

Ser. No. 294,881. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Jan. 17, 1930.

OXTONO

For Negligee and Dress Shirts.
Claims use since Jan. 7, 1930.

Ser. No. 294,912. THE BLACK MANUFACTURING CO., Seattle, Wash. Filed Jan. 18, 1930.

KODIAK

For Flannel Shirts, Work Shirts, Negligee Shirts.
Claims use since April, 1927.

Ser. No. 294,929. FRANKLIN SIMON & CO. INC., New York, N. Y. Filed Jan. 18, 1930.

Souplette

For Men's and Boys' Furnishings, Undergarments, and Clothing—Namely, House Coats, Waistcoats, Bath Robes, Smoking Robes, Smoking Jackets, Drawers, Pajamas, Dress Shirts, Undershirts, Nightshirts, Sweat Shirts, Union Suits, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Scarfs, Mufflers, Collars, Gloves, Hosiery, Overcoats, Raincoats, Dress Suits, Golf Suits, Hunting Suits, Riding Suits, Tuxedo Suits, Walking Suits, Norfolk Suits, Sack Suits, Trousers, Blouses, Belts for Outside Wear, Neckties, Garters, Suspenders, Lumber Jackets, Knickerbockers, Hats and Caps Made Out of Textile Material; and Gloves, Sweaters, Scarfs, Mufflers, Bathing Suits, Swimming Suits, Drawers, Undershirts, Hats and Caps Made Out of Knitted Material; and for Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sport Suits, Riding Suits, Under and Outer Skirts, Scarfs, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations Consisting of Vests and Drawers, Bath Robes, Shirt Waists, Gloves, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Rain Capes, Sport Coats, Blazer Coats, Hats, Caps, Capes, Coats, Blouses, Jumpers, Knickerbockers, Kimonos, Lounging Robes, Bathing Capes, Bathing Hats, Brassières, Step-In Drawers, Bloomers, Pajamas, Costume Slips, Under and Outer Shirts, Shawls, Collars, Cuffs, Belts for Outside Wear, Riding Habits, Riding Breeches, Smocks, Middy Blouses, Ostrich Boas, Nurses' Dresses, Coats, Capes, and Bonnets Made out of Textile Material; and Dresses, Corsets, Tailored Suits, Walking Suits, Sports Suits, Golf Suits, Riding Suits, Outer Skirts, Outer and Under Shirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations Consisting of Vests and Drawers, and Bath Robes, Shirt Waists, Bathing Suits, Swimming Suits, Bathing Capes, Bathing Hats, Dressing Gowns, Sweaters, Mufflers, Hosiery, Sports Coats, Blazer Coats, Hats, Caps, Capes, Coats, Blouses, Jumpers, Knickerbockers, Kimonos, Lounging Robes, Brassières, Step-In Drawers, Bloomers, Pajamas, Costume Slips, Shawls, Collars, Cuffs, Belts for Outside Wear, Riding Habits, Riding Breeches, Smocks, Middy Blouses, Scarfs, Gloves, Nurses' Coats, Capes, and Bonnets Made out of Knitted Material; and for Infants' Furnishings, Undergarments, and Clothing—Namely, Rompers, Caps, Shirt Bands, Sacques, Wrappers, Booties, Underwear, Coats, Dresses, Bath Robes, and Sweaters Made Out of Textile Material; and Rompers, Caps, Shirt Bands, Sacques, Wrappers, Booties, Underwear, Coats, Dresses, Bath Robes, and Sweaters Made out of Knitted Material; and for Men's, Women's, and Boys' and Girls' Suede Jackets, Leather Coats, Shoes (High and Low), Overshoes, Galoshes, Rubbers, Sandals, Boots, Oxfords, Slippers, Leggings, Puttees Made Out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Material; and for Infants' Booties and Shoes Made out of Leather, Rubber, Canvas, Buckskin, or Linen or Compositions of Similar Materials; and Leather and Fabric Gloves for Men, Women, Boys, and Girls; and Fur Coats and Fur Scarfs.
Claims use since Jan. 9, 1930.

Ser. No. 294,936. VAN RAALTE COMPANY, New York, N. Y. Filed Jan. 18, 1930.

VR-NAISE

For Women's and Children's Knitted Silk and Rayon Underwear.
Claims use since Jan. 13, 1930.

Ser. No. 294,998. THE STEP-IN-ALL UNDERWEAR CORPORATION, Springfield, Mass. Filed Jan. 20, 1930.

POLORAY

For Sport Shirts for Men, Women, and Children.
Claims use since May 15, 1929.

Ser. No. 295,011. BOY-CRAFT, INC., New York, N. Y. Filed Jan. 21, 1930.

Boy-Craft

For Boy's Blouses, Shirts, and Pajamas.
Claims use since Jan. 16, 1930.

Ser. No. 295,129. NEW ENGLAND WOOD HEEL CO., Haverhill, Mass. Filed Jan. 23, 1930.



For Wood Heels.
Claims use since August, 1928.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 288,042. THE WILCOX NOVELTY COMPANY, Athol, Mass. Filed Aug. 2, 1929.

Wilcox

The trade-mark is a facsimile of the signature of Mr. J. S. Wilcox, the treasurer of the said corporation.
For Bob Sets, Comprising Sets of Combs for Bobbed Hair; Buttonhooks, Combs, Shoehorns; and Toilet Sets, Comprising Combs, Brushes, Buttonhooks, Nail Buffers, and Nail Files.
Claims use since July 15, 1926.

Ser. No. 293,948. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 21, 1929.

MEADOW



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since September, 1926.

Ser. No. 293,949. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 21, 1929.

DAFFODIL



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since September, 1926.

Ser. No. 293,950. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Dec. 21, 1929.

MAYFAIR



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since September, 1926.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 276,693. MORTON H. GOLDENBERG, doing business as "Goldenberg's," Washington, D. C. Filed Dec. 14, 1928.

LUXEDO

For Textile Bath Mats and Awning Fabrics.
Claims use since Sept. 20, 1928.

Ser. No. 278,592. ALBERT GODDE, BEDIN, INC., New York, N. Y. Filed Jan. 29, 1929.

CREPE RODEO

No rights are asserted to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Dress Fabrics of Silk Sold in the Piece.
Claims use since Feb. 3, 1928.

Ser. No. 284,911. KNOX HAT COMPANY, INC., New York, N. Y. Filed June 1, 1929.



For Handkerchiefs and Veils.
Claims use since 1910.

Ser. No. 285,159. KNOX HAT COMPANY, INC., New York, N. Y. Filed June 6, 1929. Under section 5b of the act of 1905 as amended in 1920.

KNOX

Applicant is owner of registration No. 123,910 effected on the ground of actual and exclusive use by applicant and its predecessors as a trade-mark for ten years next preceding Feb. 20, 1905.

For Handkerchiefs and Veils.
Claims use since 1910.

Ser. No. 293,474. THE LEAKSVILLE WOOLEN MILLS, INC., Charlotte, N. C. Filed Dec. 10, 1929.

LEAKSVILLE "FAST FRIENDS" BLANKETS

The words "Leaksville" and "Blankets" are disclaimed apart from the mark as shown.

For All-Wool Blankets.
Claims use since Nov. 18, 1929.

Ser. No. 294,522. R. P. GORMAN & CORBB, LTD., Belfast, North Ireland. Filed Jan. 8, 1930.

GUARDSMAN

For Cotton Handkerchiefs Not in the Piece.
Claims use since July 27, 1927.

Ser. No. 295,457. LYDIA BUSH-BROWN, New York, N. Y. Filed Feb. 1, 1930.



For Silk Wall Drapes.
Claims use since 1920.

CLASS 43

Thread and Yarn

Ser. No. 294,909. EMILE BERNAT & SONS CO., Jamaica Plain, Mass. Filed Jan. 18, 1930.

WEAVRITE

For Woolen, Cotton, Linen, Silk, and Artificial-Silk Yarn.
Claims use since 1925.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 277,801. JOHNSON & JOHNSON, New Brunswick, N. J. Filed Jan. 10, 1929.

THE SPECIALIST

For Bandages.
Claims use since Dec. 13, 1927.

Ser. No. 293,926. LOGAN LABORATORIES, LTD., New York, N. Y. Filed Dec. 20, 1929.

Cymenol Electrone

For Electrical Device for Generating and Emitting Beneficial and Healthful Vapors.
Claims use since June 1, 1929.

Ser. No. 294,992. DAVID LEE O'SULLIVAN, New York, N. Y. Filed Jan. 20, 1930.

Dia-DERMIC

For Hypodermic Syringes.
Claims use since July 1, 1929.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 293,330. MAX KRIM, doing business as Krim Beverage Company, Lebanon, Pa. Filed Dec. 6, 1929.

"famlipak"

For Soft Drinks—Namely, Orangeade, Orange Soda, Lemon Soda, Lime Soda, Sarsaparilla, Birch Beer, Root Beer, Ginger Ale, Pale Dry Ginger Ale, Grape Soda, Cherry Soda, and Cream Soda.
Claims use since Nov. 15, 1928.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 269,479. NATIONAL FOODS INC., New Orleans, La. Filed July 12, 1928.

JUNIOR

For Oleomargarine.
Claims use since May 18, 1928.

Ser. No. 270,122. M. FEIBUSCH, San Francisco, Calif. Filed July 25, 1928.



For Canned Fruits, Canned Vegetables, Canned Fish.
Claims use since June 5, 1927.

Ser. No. 277,626. HARRISON'S ORANGE HUTS, INC., Chicago, Ill. Filed Jan. 5, 1929.



Applicant disclaims the representation of the sandwich and the words "Beef" and "Bun" apart from the mark as shown in the drawing.

For Sandwiches, Candy, Buns, Cookies, and Cakes.
Claims use since Jan. 20, 1928.

Ser. No. 277,627. HARRISON'S ORANGE HUTS, INC., Chicago, Ill. Filed Jan. 5, 1929.



Applicant disclaims the representation of the sandwich and the words "Chicken" and "Bun" apart from the mark as shown in the drawing.

For Sandwiches, Candy, Buns, Cookies, and Cakes.
Claims use since about Jan. 20, 1928.

Ser. No. 277,628. HARRISON'S ORANGE HUTS, INC., Chicago, Ill. Filed Jan. 5, 1929.



Applicant disclaims the representation of the sandwich and the words "Pig" and "Bun" apart from the mark as shown in the drawing.

For Sandwiches, Candy, Buns, Cookies, and Cakes.
Claims use since about Jan. 20, 1928.

Ser. No. 277,964. PRISCILLA SEARS CONFECTIONERY COMPANY, Boston, Mass. Filed Jan. 14, 1929.



Priscilla Sears

No registration right is claimed in the name "Priscilla Sears" apart from the mark as shown.

For Candy.
Claims use since May, 1915.

Ser. No. 278,299. IGNASIO LENTINI, doing business as North Star Malt Co., Woburn, Mass. Filed Jan. 22, 1929.

NORTH STAR.



For Malt Extracts for Flavoring Foods.
Claims use since Nov. 26, 1926.

Ser. No. 281,290. THE W. K. HENDERSON IRON WORKS AND SUPPLY CO., LTD., Shreveport, La. Filed Mar. 25, 1929.



The portrait of the individual and the signature associated therewith are those of the president of the corporation, the applicant herein. No claim being made to the words "Coffee" or "Shreveport" apart from the mark as shown.

For Canned Coffee.
Claims use since Mar. 13, 1929.

Ser. No. 283,181. BENJAMIN DORMAN, Brooklyn, N. Y. Filed Apr. 29, 1929.



The figure shown is fanciful. Exclusive use of the word "Marca" is not claimed except in association with the trade-mark shown.
For Olive Oil.
Claims use since 1925.

Ser. No. 285,763. ALFRED ZIERER, Vienna, Austria. Filed June 18, 1929.

YAROM

For Diatetic Milk and Milk Products Made with Lactic Acid Bacteria.
Claims use since Dec. 29, 1925.

Ser. No. 288,788. EVERETT FRUIT PRODUCTS COMPANY, Everett, Wash. Filed Aug. 21, 1929.

STAN-TEST

For Canned Fruits, Canned Vegetables, Fruit Preserves, Jellies, Jams, Syrup for Table and Cooking Purposes, Vinegar.
Claims use since June 13, 1929.

Ser. No. 289,191. JOSEY-MILLER COMPANY, Beaumont, Tex. Filed Aug. 30, 1929.

IDEAL SPECIAL

HEAVY DUTY LOGGING RATION

The word "Special" and the term "Heavy Duty Logging Ration" are hereby disclaimed apart from the mark as shown on the drawing.
For Stock Feed.
Claims use since July 1, 1924.

Ser. No. 289,532. NORTH PLATTE VALLEY CO-OPERATIVE CHEESE COMPANY, Scottsbluff, Nebr. Filed Sept. 9, 1929.

Beauty Girl

For Dressed Poultry, Eggs, Butter, Cheese, and Full-Cream Cheese.
Claims use since Feb. 12, 1929.

Ser. No. 291,749. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed Oct. 29, 1929.

PLUNDER

For Candy.
Claims use since Aug. 20, 1929.

Ser. No. 291,805. STUHR-SEIDL COMPANY, Minneapolis, Minn. Filed Oct. 30, 1929.

PROVITA

For Food Concentrates for Fowls and Animals—to wit, Thirty-Two Per Cent Dairy Concentrate, Forty Per Cent Dairy Concentrate, Buttermilk-Molasses Egg Mash, Buttermilk Egg Mash, Egg Mash.
Claims use since Dec. 15, 1928.

Ser. No. 291,960. BARRY FOOD PRODUCTS, INC., Buffalo, N. Y. Filed Nov. 4, 1929.



The words "Fine Flavor" do not form a part of the registration shown apart from the mark shown in the drawing. The word "Brand" is disclaimed apart from the mark shown on the drawing.
For Canned Baked Beans, Spaghetti, Mayonnaise, Boston Brown Bread, Cake Mixes, Doughnut Flours, Malted Cocoa.
Claims use since June 1, 1927.

Ser. No. 293,567. ARNOLD BROS., Chicago, Ill. Filed Dec. 12, 1929.

GUEST HAM

The word "Ham" appearing in the drawing is hereby disclaimed.
For Smoked and Cooked Hams.
Claims use since June 1, 1929.

Ser. No. 293,736. LA TESTE HOME MADE CANDIES, Chicago, Ill. Filed Dec. 16, 1929.

La Teste

For Homemade Candies.
Claims use since on or about Jan. 1, 1929.

Ser. No. 293,929. MILBROOKS RESTAURANTS INC., New York, N. Y. Filed Dec. 20, 1929.

MILBROOKS

For Coffee, Cookies, Candies, Plum Pudding, Cake, Tea, Rolls, Pies, Bread, and Prepared Fudge in Jars for Use in Making Hot Chocolate and Iced Desserts.
Claims use since Dec. 11, 1929.

Ser. No. 294,102. YAQUI FRUIT CO., Los Angeles, Calif. Filed Dec. 26, 1929.

MAYO CHIEF

For Fresh Citrus and Deciduous Fruits and Fresh Vegetables.
Claims use since Oct. 10, 1929.

Ser. No. 294,223. HERMAN J. HIRSCH, doing business as Hollow Tree Pantry, Milwaukee, Wis. Filed Dec. 30, 1929.

Tasty Treats

No claim is made to the word "Tasty" apart from the mark as shown.
For Nut Candies.
Claims use since Sept. 21, 1929.

Ser. No. 294,555. ALITAK FISH COMPANY, Bellingham, Wash., and Kodia Island, Territory of Alaska. Filed Jan. 9, 1930.

FOG KIST

For Canned Salmon.
Claims use since Jan. 1, 1921.

Ser. No. 294,557. ALITAK FISH COMPANY, Bellingham, Wash., and Kodia Island, Territory of Alaska. Filed Jan. 9, 1930.

SEAMONT

For Canned Salmon.
Claims use since Jan. 1, 1921.

Ser. No. 294,585. REX W. MANEVAL, doing business as The Maneval Chickeries, Frankfort, Kans. Filed Jan. 9, 1930.



Applicant disclaims the word "Chicks" and the geographical term "Frankfort, Ks."
For Chicks.
Claims use since Dec. 27, 1929.

Ser. No. 294,724. M. J. HOLLOWAY & COMPANY, Chicago, Ill. Filed Jan. 13, 1930.

DUDS

For Candy.
Claims use since about June 1, 1929.

Ser. No. 294,865. WEST FLORIDA PRESERVING COMPANY, INC., Bradenton, Fla. Filed Jan. 16, 1930.

GULF BREEZE

For Canned Grapefruit Juice for Food Purposes and Canned Tomato Juice.
Claims use since Nov. 15, 1929.

Ser. No. 294,893. WALTER J. RICKEL, doing business as United Purchasing Co., Chicago, Ill. Filed Jan. 17, 1930.

RICKEL'S FROSTO

For Chocolate Frosting for Food Purposes.
Claims use since Nov. 10, 1928.

Ser. No. 295,161. HAAS, BARUCH & COMPANY, Los Angeles, Calif. Filed Jan. 24, 1930.

IROLA

For Canned Fruits, Canned Vegetables, Canned Fish, Chili Sauces, Canned Fruit Preserves, Mayonnaise Dressing, French Dressing, Dried Fruits, and Catsup.
Claims use since Oct. 11, 1929.

Ser. No. 295,202. AMERICAN COFFEE CORPORATION, New York, N. Y. Filed Jan. 25, 1930.



No claim being made to the exclusive use of the word "Coffee" apart from the mark as shown in the drawing.
For Coffee.
Claims use since Jan. 20, 1930.

Ser. No. 295,273. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Jan. 27, 1930.

SPEED KEY

For Prepared Composition for the Making of Doughnuts.
Claims use since on or about Nov. 18, 1929.

Ser. No. 295,287. WITT'S MARKET HOUSE, Minneapolis, Minn. Filed Jan. 27, 1930.

DRY-DIPT

For Dressed Poultry.
Claims use since on or about Oct. 1, 1929.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 278,141. GEO. G. SANDEMAN, SONS & CO. LTD., London, England. Filed Jan. 18, 1929.



Disclaimer is hereby made to the word "London" and the device of the star apart from the mark as shown in the drawing.
For Distilled Alcoholic Spirits in the Nature of Beverages, Including Whiskey, Gin, Brandy, and Rum.
Claims use since July 25, 1928.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 291,756. BRÜDER BÖHM, Vienna, Austria. Filed Oct. 30, 1929.



For Hair, Wool, or Velour Felts and Felts of Other Material.
Claims use since Aug. 9, 1921.

Ser. No. 293,991. VILO MANUFACTURING CO., Chicago, Ill. Filed Dec. 21, 1929.

VILOGLAS

For Coated Fabric in Sheet Form Serving as a Substitute for Sheet Glass.
Claims use since on or about June 27, 1929.

Ser. No. 294,147. CONTINENTAL TYPEFOUNDERS ASSOCIATION, INC., New York, N. Y. Filed Dec. 28, 1929.

KABEL

For Matrices for the Production of Printer's Type.
Claims use since about Dec. 18, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 11, 1930

268,101. COAL. THE ARCTIC FUEL COMPANY, Des Moines, Iowa.
Filed July 19, 1929. Serial No. 287,326. PUBLISHED DECEMBER 3, 1929. Class 1.

268,102. TONIC USED IN THE TREATMENT OF ALL CASES IN WHICH GLYCEROPHOSPHATES WITH STRYCHNINE AND LECITHIN ARE INDICATED—NAMELY, IMPOVERISHED OR DEPRESSED CONDITIONS OF THE NERVOUS SYSTEM. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa.
Filed November 7, 1929. Serial No. 292,133. PUBLISHED DECEMBER 24, 1929. Class 6.

268,103. PERIODICAL. FUNK & WAGNALLS COMPANY, New York, N. Y.
Filed November 8, 1929. Serial No. 292,162. PUBLISHED DECEMBER 24, 1929. Class 38.

268,104. MONTHLY PUBLICATION. MEREDITH PUBLISHING COMPANY, Des Moines, Iowa.
Filed November 11, 1929. Serial No. 292,274. PUBLISHED DECEMBER 24, 1929. Class 38.

268,105. PHOTOGRAPHIC ENLARGEMENTS. WILLIAM GREENE, doing business as Greene Service Company, New York, N. Y.
Filed November 13, 1929. Serial No. 292,354. PUBLISHED DECEMBER 24, 1929. Class 38.

268,106. MONTHLY PUBLICATION. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio.
Filed November 14, 1929. Serial No. 292,385. PUBLISHED DECEMBER 24, 1929. Class 38.

268,107. SQUILL COMPOUND FOR KILLING RATS AND MICE. BONIDE CHEMICAL CO. INC., Utica, N. Y.
Filed October 24, 1929. Serial No. 291,497. PUBLISHED DECEMBER 24, 1929. Class 6.

268,108. MAGAZINES PUBLISHED EVERY MONTH. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn.
Filed October 28, 1929. Serial No. 291,660. PUBLISHED DECEMBER 24, 1929. Class 38.

268,109. CAPSULES FOR TREATING HEADACHES. WILLIAM L. SWARTZ, doing business as Pal. O. Mor. Chemical Co., Pittsburgh, Pa.
Filed October 29, 1929. Serial No. 291,745. PUBLISHED DECEMBER 24, 1929. Class 6.

268,110. MEDICINAL TONIC USED FOR GIVING VIGOR AND INCREASING STRENGTH OF THE HUMAN SYSTEM. ALLAN & CO., INC., St. Louis, Mo.
Filed October 30, 1929. Serial No. 291,753. PUBLISHED DECEMBER 24, 1929. Class 6.

268,111. INHALANT LIQUIDS FOR NASAL CONGESTION. TULLEY J. POMERANCE, doing business as Karl Laboratories, Detroit, Mich.
Filed October 30, 1929. Serial No. 291,788. PUBLISHED DECEMBER 24, 1929. Class 6.

268,112. CLEANING COMPOUND, BLEACH, DISINFECTANT, DEODORANT, AND ANTISEPTIC. THE HILEX COMPANY, St. Paul, Minn.
Filed October 31, 1929. Serial No. 291,827. PUBLISHED DECEMBER 24, 1929. Class 6.

268,113. MEDICINE FOR HEART AFFECTIONS. WILLIAM H. ROHER, INC., Philadelphia, Pa.
Filed October 30, 1929. Serial No. 291,791. PUBLISHED DECEMBER 24, 1929. Class 6.

268,114. DYESTUFFS. WAYLAND-LLOYD CO. INC., Providence, R. I.
Filed October 31, 1929. Serial No. 291,852. PUBLISHED DECEMBER 24, 1929. Class 6.

268,115. PERIODICALS. BANKERS PUBLISHING COMPANY, Milwaukee, Wis.
Filed November 1, 1929. Serial No. 291,864. PUBLISHED DECEMBER 24, 1929. Class 38.

268,116. MONTHLY PUBLICATION. GERNSBACK PUBLICATIONS, INC., New York, N. Y.
Filed November 4, 1929. Serial No. 291,973. PUBLISHED DECEMBER 24, 1929. Class 38.

268,117. DOMESTIC AMMONIA AND LIQUID BLUING. PIGGLY WIGGLY CORPORATION, Cincinnati, Ohio.
Filed November 4, 1929. Serial No. 292,007. PUBLISHED DECEMBER 24, 1929. Class 6.

268,118. SERIES OF LAW BOOKS, INCLUDING EXTRACTS THEREFROM PUBLISHED AS SEPARATE BOOKLETS. BANCROFT-WHITNEY COMPANY, San Francisco, Calif.
Filed November 5, 1929. Serial No. 292,024. PUBLISHED DECEMBER 24, 1929. Class 38.

268,119. COUGH MEDICINE. CORNEL DRUG STORES INC., New York, N. Y.
Filed November 5, 1929. Serial No. 292,030. PUBLISHED DECEMBER 24, 1929. Class 6.

268,120. PURIFIED SOLUBLE PHYSIOLOGICALLY-HYDROLYZED PROTEIN PREPARED FROM THE COAGULABLE PROTEID OF FRESH MILK TO BE USED FOR EXPERIMENTAL, TECHNICAL, AND CLINICAL PURPOSES. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed November 7, 1929. Serial No. 292,098. PUBLISHED DECEMBER 24, 1929. Class 6.

268,121. VAGINAL DOUCHE. WILLIAM E. GRANT, doing business as Peace Medical Company, Lancaster, Pa.
Filed November 7, 1929. Serial No. 292,105. PUBLISHED DECEMBER 24, 1929. Class 6.

268,122. TIRE AND TUBE PATCHES, REPAIR KITS AND BELTS, ALL MADE WHOLLY OR PARTLY OF RUBBER. THE BADGER RUBBER WORKS, Milwaukee and Cudahy, Wis.
Filed October 23, 1929. Serial No. 291,426. PUBLISHED DECEMBER 24, 1929. Class 35.

268,123. TIRE FLAPS, FLAP MATERIAL, AND TRANSMISSION DISCS, ALL MADE WHOLLY OR PARTLY OF RUBBER, AND TIRE COVERS MADE OF WATERPROOFED FABRIC. THE BADGER RUBBER WORKS, Milwaukee and Cudahy, Wis.
Filed October 23, 1929. Serial No. 291,427. PUBLISHED DECEMBER 24, 1929. Class 35.

268,124. VEHICLE TIRES AND INNER TUBES MADE WHOLLY OR PARTLY OF RUBBER. THE BADGER RUBBER WORKS, Milwaukee and Cudahy, Wis.
Filed October 23, 1929. Serial No. 291,428. PUBLISHED DECEMBER 24, 1929. Class 35.

268,125. CERTAIN NAMED FURNITURE. BARKER BROS. INCORPORATED, Los Angeles, Calif.
Filed October 23, 1929. Serial No. 291,432. PUBLISHED DECEMBER 24, 1929. Class 32.

268,126. VEHICLE TIRES, INNER TUBES, AND TRANSMISSION DISCS, ALL MADE WHOLLY OR PARTLY OF RUBBER. THE BADGER RUBBER WORKS, Milwaukee and Cudahy, Wis.
Filed October 23, 1929. Serial No. 291,429. PUBLISHED DECEMBER 24, 1929. Class 35.

268,127. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. CRESTA BLANCA COMPANY, INC., San Francisco, Calif.
Filed October 23, 1929. Serial No. 291,439. PUBLISHED DECEMBER 24, 1929. Class 45.

268,128. KEY CASES CONSTRUCTED PRINCIPALLY FROM EITHER LEATHER, LEATHEROID, OR FABRIC. OLIVER BAKER MANUFACTURING COMPANY, Minneapolis, Minn.
Filed October 28, 1929. Serial No. 291,471. PUBLISHED DECEMBER 24, 1929. Class 3.

268,129. MECHANICAL WATER SOFTENERS. FORT WAYNE ENGINEERING & MANUFACTURING CO., Fort Wayne, Ind.
Filed October 26, 1929. Serial No. 291,614. PUBLISHED DECEMBER 24, 1929. Class 23.

268,130. AUTOMOTIVE TOOLS—NAMELY, SOCKET WRENCHES, SOCKET-WRENCH KITS, VALVE REAMERS, AND VALVE-GRINDING MACHINES. DURO METAL PRODUCTS COMPANY, Chicago, Ill.
Filed October 28, 1929. Serial No. 291,657. PUBLISHED DECEMBER 24, 1929. Class 23.

268,131. EQUIPMENT—NAMELY, FEED, LITTER, MILK CANS, ETC. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 28, 1929. Serial No. 291,668. PUBLISHED DECEMBER 24, 1929. Class 23.

268,132. WHISKEY. A. OVERHOLT & COMPANY, Broad Ford, Pa.
Filed October 30, 1929. Serial No. 291,784. PUBLISHED DECEMBER 24, 1929. Class 49.

268,133. ALL VARIETIES OF FLOUR MILLED FROM WHEAT COMPRISING WHOLE-WHEAT FLOUR, WHEAT FLOUR, PHOSPHATED AND SELF-RISING FLOUR. STANARD-TILTON MILLING COMPANY, St. Louis, Mo.
Filed October 31, 1929. Serial No. 291,843. PUBLISHED DECEMBER 24, 1929. Class 46.

268,134. WIENER-ROASTING MACHINE. BERG BROS. MANUFACTURING COMPANY INCORPORATED, Minneapolis, Minn.
Filed November 9, 1929. Serial No. 292,199. PUBLISHED DECEMBER 24, 1929. Class 23.

268,135. WHEAT FLOUR. THE PAGE MILLING CO., Luray, Va.
Filed November 9, 1929. Serial No. 292,227. PUBLISHED DECEMBER 24, 1929. Class 46.

268,136. RAZOR BLADES. APEX MANUFACTURING CORPORATION, Baltimore, Md.
Filed November 11, 1929. Serial No. 292,244. PUBLISHED DECEMBER 24, 1929. Class 23.

268,137. RUG HOOKERS. JOHN E. GARRETT, New Glasgow, Nova Scotia, Canada, and Malden, Mass.
Filed November 11, 1929. Serial No. 292,263. PUBLISHED DECEMBER 24, 1929. Class 23.

268,138. SAFETY-RAZOR BLADES. FRANK J. QUIGAN, INC., Brooklyn, N. Y.
Filed November 11, 1929. Serial No. 292,287. PUBLISHED DECEMBER 24, 1929. Class 23.

268,139. BREAD. BERTRAM C. BARNES, doing business as Barnes Baking Co., Seattle, Wash.
Filed November 13, 1929. Serial No. 292,349. PUBLISHED DECEMBER 24, 1929. Class 46.

268,140. BEDS. ENGLANDER SPRING BED COMPANY, Brooklyn, N. Y.
Filed November 14, 1929. Serial No. 292,400. PUBLISHED DECEMBER 24, 1929. Class 32.

268,141. STOCK, CATTLE, AND POULTRY FEED. MISSOULA FEED AND GRAIN COMPANY, Missoula, Mont.
Filed November 14, 1929. Serial No. 292,411. PUBLISHED DECEMBER 24, 1929. Class 46.

268,142. WHEAT FLOUR. BUFFALO FLOUR MILLS CORPORATION, Buffalo, N. Y.
Filed November 14, 1929. Serial No. 292,432. PUBLISHED DECEMBER 24, 1929. Class 46.

268,143. CHEESE. N. Z. CHEESE LTD., Auckland, New Zealand.
Filed November 15, 1929. Serial No. 292,457. PUBLISHED DECEMBER 24, 1929. Class 46.

268,144. CANNED CORNED BEEF. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y.
Filed October 14, 1929. Serial No. 291,057. PUBLISHED DECEMBER 31, 1929. Class 46.

268,145. SWEATERS, SWEATER COATS, AND KNITTED SHIRTS FOR MEN AND BOYS; SWEATERS AND SWEATER COATS FOR GIRLS AND WOMEN. NEUSTADTER BROS., San Francisco, Calif.
Filed October 15, 1929. Serial No. 291,098. PUBLISHED DECEMBER 24, 1929. Class 39.

268,146. UNDERWEAR—NAMELY, MEN'S AND CHILDREN'S UNDERPANTS AND UNION SUITS. HANSLEY MILLS, New York, N. Y.
Filed October 30, 1929. Serial No. 291,806. PUBLISHED DECEMBER 24, 1929. Class 39.

268,147. BOXES, CASES, WASTEBASKETS, ETC. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,832. PUBLISHED DECEMBER 31, 1929. Class 2.

268,148. BOXES, CASES, WASTEBASKETS, ETC. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,831. PUBLISHED DECEMBER 31, 1929. Class 2.

268,149. METAL NECKTIE RACKS, METAL HAT AND GARMENT RACKS, AND METAL SHOE RACKS. JAMES H. BOYE MANUFACTURING CO., Chicago, Ill.
Filed July 20, 1929. Serial No. 287,398. PUBLISHED DECEMBER 31, 1929. Class 13.

268,150. BRASS AND COPPER POLISH. HOLD-GLOSS INC., New York, N. Y.
Filed July 29, 1929. Serial No. 287,819. PUBLISHED DECEMBER 24, 1929. Class 4.

268,151. NECKTIES. THE WEISBAUM BROS. BROWER COMPANY, Cincinnati, Ohio.
Filed October 15, 1929. Serial No. 291,104. PUBLISHED DECEMBER 17, 1929. Class 39.

268,152. HOSIERY. DE VALÉ, INC., Lansdale, Pa.
Filed October 18, 1929. Serial No. 291,208. PUBLISHED DECEMBER 24, 1929. Class 39.

268,153. HOSIERY. DE VALÉ, INC., Lansdale, Pa.
Filed October 18, 1929. Serial No. 291,209. PUBLISHED DECEMBER 24, 1929. Class 39.

268,154. HOSIERY. WALTER FRED HOSIERY MILLS INC., Nashville, Tenn.
Filed October 18, 1929. Serial No. 291,212. PUBLISHED DECEMBER 17, 1929. Class 39.

268,155. SPORTSWEAR OF KNITTED OR WOVEN MATERIALS—NAMELY, MEN'S, WOMEN'S, AND CHILDREN'S KNITTED OR WOVEN SPORT SWEATERS, SPORT DRESSES, SPORT SUITS, AND SPORT COATS. JACOB GUTTMAN & SONS, INC., New York, N. Y.
Filed October 18, 1929. Serial No. 291,220. PUBLISHED DECEMBER 24, 1929. Class 39.

268,156. CANNED FISH. ETABLISSEMENTS F. DELORY, Lorient, France.
Filed October 21, 1929. Serial No. 291,329. PUBLISHED DECEMBER 24, 1929. Class 46.

268,157. COFFEES. SAMAHA BROS., Washington, D. C.
Filed October 21, 1929. Serial No. 291,358. PUBLISHED DECEMBER 24, 1929. Class 46.

268,158. MEN'S AND BOYS' DRESS, SPORT, AND NEGLIGEE SHIRTS. LEVIN & HARRIS SHIRT CO., INC., New York, N. Y.
Filed October 22, 1929. Serial No. 291,396. PUBLISHED DECEMBER 24, 1929. Class 39.

268,159. TOFFEE. JOHN MACKINTOSH AND SONS, LIMITED, Halifax, England.
Filed September 23, 1929. Serial No. 290,170. PUBLISHED DECEMBER 24, 1929. Class 46.

268,160. MEN'S WORK, DRESS, AND NEGLIGEE SHIRTS AND COLLARS. LEON E. JACOBS & BRO., New York, N. Y.
Filed September 26, 1929. Serial No. 290,254. PUBLISHED DECEMBER 24, 1929. Class 39.

268,161. WEARING APPAREL. LA MODE GARMENT CO., INC., Chicago, Ill.
Filed October 2, 1929. Serial No. 290,517. PUBLISHED DECEMBER 17, 1929. Class 39.

268,162. MEN'S DRESS SHIRTS AND TIES. ROSECLIFF SHIRT CORPORATION, New York, N. Y.
Filed October 3, 1929. Serial No. 290,603. PUBLISHED DECEMBER 17, 1929. Class 39.

268,163. MEN'S AND YOUNG MEN'S SUITS AND OVERCOATS. B. F. SCHLESINGER & SONS, New York, N. Y., and San Francisco, Calif., doing business as Olds, Wortman and King, Portland, Oreg., and as Rhodes Brothers, Tacoma, Wash.
Filed October 3, 1929. Serial No. 290,607. PUBLISHED DECEMBER 17, 1929. Class 39.

268,164. HOSIERY. GALAX KNITTING COMPANY, Galax, Va.
Filed October 7, 1929. Serial No. 290,751. PUBLISHED DECEMBER 17, 1929. Class 39.

268,165. LADIES' AND MISSES' COATS, SUITS, RAINCOATS, DRESSES, BLOUSES, AND SKIRTS. LESHER, WHITMAN & CO., INC., New York, N. Y.
Filed October 7, 1929. Serial No. 290,755. PUBLISHED DECEMBER 17, 1929. Class 39.

268,166. DRESSES FOR WOMEN AND CHILDREN, APRONS, COATS FOR WOMEN AND CHILDREN, AND KNITTED AND TEXTILE UNDERWEAR. FRIED GARMENT MFG. CO., INC., Houston, Tex.
Filed October 11, 1929. Serial No. 290,946. PUBLISHED DECEMBER 24, 1929. Class 39.

268,167. FRESH AVOCADO OR ALLIGATOR PEARS. CALIGATOR PEAR COMPANY, Bonita, Calif.
Filed October 12, 1929. Serial No. 290,994. PUBLISHED DECEMBER 24, 1929. Class 46.

268,168. WOMEN'S, MISSES', AND CHILDREN'S COATS FOR SPORT AND DRESS WEAR. BEN GREENHOLTZ, New York, N. Y.
Filed October 12, 1929. Serial No. 291,003. PUBLISHED DECEMBER 17, 1929. Class 39.

268,169. SAUSAGE PATTIES. THE HENRY MUHS COMPANY, Passaic, N. J.
Filed October 12, 1929. Serial No. 291,014. PUBLISHED DECEMBER 31, 1929. Class 46.

268,170. COMPOUND OF COFFEE AND CHICORY AND A COMPOUND OF COFFEE, CEREAL, AND CHICORY. NEW ORLEANS COFFEE CO., LTD., New Orleans, La.
Filed August 28, 1929. Serial No. 289,125. PUBLISHED DECEMBER 31, 1929. Class 46.

268,171. SHIRTS—NAMELY, NEGLIGEE, DRESS, WORK, AND FLANNEL SHIRTS. DAVID H. SCHIFFER, doing business as Wearever Shirt Co., New York, N. Y.
Filed August 30, 1929. Serial No. 289,208. PUBLISHED DECEMBER 24, 1929. Class 39.

268,172. FRESH DECIDUOUS FRUITS, FRESH CANTALOUPES, FRESH VEGETABLES. H. P. GARIN CO., San Francisco, Calif.
Filed September 10, 1929. Serial No. 289,581. PUBLISHED DECEMBER 31, 1929. Class 46.

268,173. FRESH GRAPEFRUIT. YUMA MESA GRAPEFRUIT COMPANY, Yuma, Ariz.
Filed August 24, 1929. Serial No. 288,944. PUBLISHED DECEMBER 24, 1929. Class 46.

268,174. CLOTHING. MCCLURE & MCINTOSH, LIMITED, Glasgow, Scotland.
Filed August 26, 1929. Serial No. 289,034. PUBLISHED DECEMBER 17, 1929. Class 39.

268,175. FRESH DECIDUOUS FRUIT—NAMELY, FRESH GRAPES, POMEGRANATES, PEARS, PEACHES, APRICOTS, CHERRIES, PLUMS, FIGS; FRESH CITRUS FRUIT—NAMELY, ORANGES. CALIFORNIA LANDS, INC., San Francisco, Calif.
Filed September 10, 1929. Serial No. 289,572. PUBLISHED DECEMBER 24, 1929. Class 46.

268,176. HOSIERY. MELVILLE SHOE CORPORATION, New York, N. Y.
Filed September 18, 1929. Serial No. 289,936. PUBLISHED DECEMBER 17, 1929. Class 39.

268,177. CANNED FRUITS AND CANNED VEGETABLES. RAY-BROWN COMPANY, INC., Woodburn, Oreg.
Filed July 3, 1929. Serial No. 286,580. PUBLISHED DECEMBER 24, 1929. Class 46.

268,178. HOSIERY. BROWN DURREL CO., Boston, Mass. and New York, N. Y.
Filed July 10, 1929. Serial No. 286,858. PUBLISHED DECEMBER 24, 1929. Class 39.

268,179. HOSIERY. BROWN DURREL CO., Boston, Mass. and New York, N. Y.
Filed July 10, 1929. Serial No. 286,864. PUBLISHED DECEMBER 24, 1929. Class 39.

268,180. FRESH TOMATOES, FRESH PEPPERS, AND EGGPLANT. STERLING VEGETABLE GROWERS ASSOCIATION, Sterling, Ill.
Filed July 17, 1929. Serial No. 287,267. PUBLISHED DECEMBER 31, 1929. Class 46.

268,181. CANNED SHRIMP. PAUL BOUDON FISH & OYSTER CO. INC., New Orleans, La.
Filed July 30, 1929. Serial No. 287,864. PUBLISHED DECEMBER 31, 1929. Class 46.

268,182. HOSIERY. EMILY SHOPS, INC., New York, N. Y.
Filed October 24, 1929. Serial No. 291,501. PUBLISHED DECEMBER 17, 1929. Class 39.

268,183. TOFFEE. JOHN MACKINTOSH AND SONS, LIMITED, Halifax, England.
Filed October 26, 1929. Serial No. 291,627. PUBLISHED DECEMBER 24, 1929. Class 46.

268,184. PAJAMAS. ROBERT REIS & CO., New York, N. Y.
Filed October 26, 1929. Serial No. 291,638. PUBLISHED DECEMBER 17, 1929. Class 39.

268,185. PARCELS OF LARD. THE ALLBRIGHT-NELL COMPANY, Chicago, Ill.
Filed October 28, 1929. Serial No. 291,652. PUBLISHED DECEMBER 24, 1929. Class 46.

268,186. FRESH DECIDUOUS FRUITS. CARMEL VALLEY FRUIT GROWERS ASSOCIATION, Monterey, Calif.
Filed October 29, 1929. Serial No. 291,714. PUBLISHED DECEMBER 31, 1929. Class 46.

268,187. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, GRAPEFRUIT, AND TANGERINES. CLEARWATER GROWERS ASSOCIATION, Clearwater, Fla.
Filed October 29, 1929. Serial No. 291,715. PUBLISHED DECEMBER 31, 1929. Class 46.

268,188. KNITTED SWEATERS AND KNITTED BATHING SUITS. ZAKONIT, INC., Boston, Mass.
Filed October 29, 1929. Serial No. 291,752. PUBLISHED DECEMBER 17, 1929. Class 39.

268,189. MEDICINAL PREPARATION USED IN THE TREATMENT OF ACIDITY OF THE DIGESTIVE ORGANS. AQUILINO SUÁREZ RIVERO, doing business as Pyroneutrol Co., New York, N. Y.
Filed October 22, 1929. Serial No. 291,412. PUBLISHED DECEMBER 24, 1929. Class 6.

268,190. EFFERVESCENT SOLUTION OF MAGNESIA. PHILADELPHIA MAGNESIA COMPANY, Philadelphia, Pa.
Filed October 22, 1929. Serial No. 291,406. PUBLISHED DECEMBER 24, 1929. Class 6.

268,191. MEDICAL PREPARATION USED IN THE TREATMENT OF HOG CHOLERA. BENJAMIN T. KIRCHER, Manitou, N. J.
Filed October 19, 1929. Serial No. 291,275. PUBLISHED DECEMBER 24, 1929. Class 6.

268,192. CERTAIN NAMED WEARING APPAREL. THALHIMER BROS., INC., Richmond, Va.
Filed October 17, 1929. Serial No. 291,181. PUBLISHED DECEMBER 24, 1929. Class 39.

268,193. RUBBER AND COMPOSITION SOLES AND HEELS FOR BOOTS AND SHOES. ESSEX RUBBER COMPANY INC., Trenton, N. J.
Filed October 15, 1929. Serial No. 291,085. PUBLISHED DECEMBER 24, 1929. Class 39.

268,194. PINS AND SAFETY PINS NOT MADE OF PRECIOUS METAL. SCHAPIRO & BYNE, INC., New York, N. Y.
Filed October 12, 1929. Serial No. 291,027. PUBLISHED DECEMBER 24, 1929. Class 40.

268,195. CERTAIN NAMED WEARING APPAREL. A. I. NAMM & SON, doing business as The Namm Store, Brooklyn, N. Y.
Filed October 11, 1929. Serial No. 290,965. PUBLISHED DECEMBER 24, 1929. Class 39.

268,196. WOMEN'S SHOES MADE OF LEATHER, CALFSKIN, KID SKIN, OR REPTILE SKINS AND COMBINATIONS THEREOF. O'CONNOR & GOLDBERG, Chicago, Ill.
Filed October 7, 1929. Serial No. 290,761. PUBLISHED DECEMBER 24, 1929. Class 39.

268,197. HAIR TONIC, SHAMPOO, HAIR OIL, AND HAIR POMADE. MOLLY MOIRA HOGAN, New York, N. Y.
Filed October 3, 1929. Serial No. 290,573. PUBLISHED DECEMBER 24, 1929. Class 6.

268,198. SHOES CONSTRUCTED OF LEATHER, RUBBER, OR FABRIC OR OF COMBINATIONS OF SAID MATERIALS. WILBAR'S, INC., Boston, Mass.
Filed October 1, 1929. Serial No. 290,484. PUBLISHED DECEMBER 24, 1929. Class 39.

268,199. CERTAIN NAMED FANCY GOODS, FURNISHINGS AND NOTIONS. L. BAMBERGER & CO., Newark, N. J.
Filed September 27, 1929. Serial No. 290,295. PUBLISHED DECEMBER 3, 1929. Class 40.

268,200. CERTAIN NAMED WEARING APPAREL. LAMB MFG. COMPANY, Terre Haute, Ind.
Filed September 24, 1929. Serial No. 290,183. PUBLISHED DECEMBER 24, 1929. Class 39.

268,201. LEATHER SPORTING BOOTS. THEO. BERGMANN SHOE MFG. CO., Portland, Oreg.
Filed September 16, 1929. Serial No. 289,813. PUBLISHED DECEMBER 24, 1929. Class 39.

268,202. HAIR AND TOILET PREPARATIONS. MARCELLENE CHEMICAL COMPANY, Richmond, Va.
Filed September 14, 1929. Serial No. 289,791. PUBLISHED DECEMBER 24, 1929. Class 6.

268,203. BOOTS AND SHOES OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS OF THOSE MATERIALS. LOTUS LIMITED, Stafford, England.
Filed September 12, 1929. Serial No. 289,684. PUBLISHED DECEMBER 24, 1929. Class 39.

268,204. MEDICINAL PREPARATION FOR TUBERCULOSIS AND KINDRED DISEASES. THE TILDEN COMPANY, New Lebanon, N. Y.
Filed September 11, 1929. Serial No. 289,654. PUBLISHED DECEMBER 24, 1929. Class 6.

268,205. RUBBER SOLES AND HEELS. HOOD RUBBER COMPANY, INC., Watertown, Mass.
Filed September 11, 1929. Serial No. 289,627. PUBLISHED DECEMBER 24, 1929. Class 39.

268,206. SHOES OF LEATHER OR FABRIC OR A COMBINATION OF THESE MATERIALS. THE J.-K. ORR SHOE COMPANY, Atlanta, Ga.
Filed September 5, 1929. Serial No. 289,363. PUBLISHED DECEMBER 24, 1929. Class 39.

268,207. MAGAZINES. JACK BAUER, New York, N. Y.
Filed August 16, 1929. Serial No. 288,580. PUBLISHED DECEMBER 24, 1929. Class 38.

268,208. STEEL AND IRON CASTINGS, FORGINGS, INGOTS, BILLETS, AND BARS. THE MIDVALE COMPANY, Philadelphia, Pa.
Filed August 22, 1929. Serial No. 288,861. PUBLISHED DECEMBER 24, 1929. Class 14.

268,209. DENTAL AND SURGICAL INSTRUMENTS. CHIRON-WERKE G. M. B. H., Tuttlingen, Germany.
Filed July 11, 1929. Serial No. 286,924. PUBLISHED DECEMBER 24, 1929. Class 44.

268,210. VIBRATING AND HEATING APPARATUS USED FOR THERAPEUTIC PURPOSES. RENWAL SCIENTIFIC ENGINEERING COMPANY, Chicago, Ill.
Filed July 5, 1929. Serial No. 286,054. PUBLISHED DECEMBER 24, 1929. Class 44.

268,211. VIBRATING AND HEATING APPARATUS USED FOR THERAPEUTIC PURPOSES. RENWAL SCIENTIFIC ENGINEERING COMPANY, Chicago, Ill.
Filed July 5, 1929. Serial No. 286,053. PUBLISHED DECEMBER 24, 1929. Class 44.

268,212. SPORTING GOODS. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,836. PUBLISHED DECEMBER 31, 1929. Class 22.

268,213. SPORTING GOODS. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,835. PUBLISHED DECEMBER 31, 1929. Class 22.

268,214. AUTOMOBILE AND FURNITURE POLISH. SOLAR PRODUCTS COMPANY, Chicago, Ill.
Filed June 13, 1929. Serial No. 285,535. PUBLISHED DECEMBER 24, 1929. Class 16.

268,215. GRAPE JUICE AND LOGANBERRY JUICE. DICKINSON COMPANY, INC., Oswego, Oreg.
Filed September 14, 1929. Serial No. 289,787. PUBLISHED DECEMBER 24, 1929. Class 45.

268,216. BISCUITS. NAAMLOOZE VENNOOTSCHAP UTRECHTSCHE BOTERSPRITSFABRIEK VOORHEEN FIRMA W. J. NOTEBOOM, Utrecht, Netherlands.
Filed September 9, 1929. Serial No. 289,530. PUBLISHED DECEMBER 24, 1929. Class 46.

268,217. OPHTHALMIC MOUNTINGS AND PARTS THEREFOR, EYE PROTECTORS, ETC. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed August 30, 1929. Serial No. 289,171. PUBLISHED DECEMBER 24, 1929. Class 26.

268,218. ADJUSTABLE SCREW WRENCHES. GEBR. DOWIDAT, Luttringhausen, Germany.
Filed August 8, 1929. Serial No. 288,278. PUBLISHED DECEMBER 24, 1929. Class 23.

268,219. PLANES, GROOVING IRONS, GOUGES, ETC. E. A. BERGS FABRIKS AKTIEBOLAG, Eskilstuna, Sweden.
Filed July 31, 1929. Serial No. 287,904. PUBLISHED DECEMBER 24, 1929. Class 23.

268,220. OPHTHALMIC MOUNTINGS, EYE PROTECTORS, LENSES, ETC. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed July 29, 1929. Serial No. 287,786. PUBLISHED DECEMBER 24, 1929. Class 26.

268,221. GINGER ALE. HERMAN KRAUSS, INC., Toledo, Ohio.
Filed July 26, 1929. Serial No. 287,707. PUBLISHED DECEMBER 24, 1929. Class 45.

268,222. SUPPLIES AND APPARATUS FOR LABORATORIES. TESCHNER-MYERS CO., INC., New York, N. Y.
Filed June 25, 1929. Serial No. 286,141. PUBLISHED DECEMBER 24, 1929. Class 26.

268,223. BLUE-PRINTING MACHINES, ETC. CHARLES BRUNING COMPANY, INC., New York, N. Y.
Filed June 8, 1929. Serial No. 285,246. PUBLISHED DECEMBER 24, 1929. Class 26.

268,224. CEMENT-MAKING MACHINERY AND PARTS THEREOF. F. L. SMIDTH & Co., New York, N. Y.
Filed June 6, 1929. Serial No. 285,181. PUBLISHED DECEMBER 24, 1929. Class 23.

268,225. FLOOR MOPS. SQUEEZ-EZY MOP CO., INC., New Orleans, La.
Filed November 4, 1929. Serial No. 292,015. PUBLISHED DECEMBER 24, 1929. Class 29.

268,226. BROOMS. PIGGLY WIGGLY CORPORATION, Cincinnati, Ohio.
Filed November 4, 1929. Serial No. 292,008. PUBLISHED DECEMBER 24, 1929. Class 29.

268,227. VARNISHES. AMALGAMATED PAINT COMPANY, New York, N. Y.
Filed September 14, 1929. Serial No. 289,779. PUBLISHED DECEMBER 17, 1929. Class 16.

268,228. READY-MIXED PAINTS AND VARNISHES. CROWN PAINT & VARNISH WORKS, INC., Chicago, Ill.
Filed May 18, 1929. Serial No. 284,219. PUBLISHED AUGUST 6, 1929. Class 16.

268,229. HAIR NETS. CHARLES K. THAU, doing business as The Laura Hair Novelty Co., New York, N. Y.
Filed May 15, 1929. Serial No. 283,807. PUBLISHED DECEMBER 24, 1929. Class 42.

268,230. HAIR TONIC. ELMER A. ALLAWAY, Sioux City, Iowa.
Filed May 11, 1929. Serial No. 283,852. PUBLISHED DECEMBER 24, 1929. Class 6.

268,231. BOARD GAMES. STOX, INC., Chicago, Ill.
Filed May 3, 1929. Serial No. 283,473. PUBLISHED DECEMBER 31, 1929. Class 22.

268,232. COTTON BANDAGE, ABSORBENT COTTON, ATOMIZERS, AND SANITARY NAPKINS. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed May 3, 1929. Serial No. 283,471. PUBLISHED DECEMBER 24, 1929. Class 44.

268,233. COTTON BANDAGE, ABSORBENT COTTON, ATOMIZERS, AND SANITARY NAPKINS. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed April 30, 1929. Serial No. 283,307. PUBLISHED DECEMBER 24, 1929. Class 44.

268,234. EDIBLE SALTED NUTS. EVER FRESH NUT CO., INC., Rochester, N. Y.
Filed April 30, 1929. Serial No. 283,267. PUBLISHED DECEMBER 31, 1929. Class 46.

268,235. POTS FOR HOLDING BATHS FOR HEAT TREATING AND THE LIKE TO BE HEATED. FLANNERY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed April 26, 1929. Serial No. 283,085. PUBLISHED DECEMBER 31, 1929. Class 34.

268,236. GAS-FUEL BURNERS. WETHERBEE-GUNN CO., Evanston, Ill.
Filed April 25, 1929. Serial No. 283,022. PUBLISHED DECEMBER 24, 1929. Class 34.

268,237. BOWL CLEANER. THE LIGHTNIN CHEMICAL COMPANY, Painesville, Ohio.
Filed May 24, 1929. Serial No. 284,580. PUBLISHED DECEMBER 17, 1929. Class 4.

268,238. WRAPPING PAPER, ENVELOPE PAPER, AND PAPER BOARD LINING. THE NORTHWEST PAPER COMPANY, Cloquet, Minn.
Filed April 22, 1929. Serial No. 282,823. PUBLISHED DECEMBER 17, 1929. Class 37.

268,239. DUST MOPS. THE OSTDIEK CO., Minneapolis, Minn.
Filed April 22, 1929. Serial No. 282,790. PUBLISHED DECEMBER 24, 1929. Class 29.

268,240. PENCILS, PAPER TABLETS, COMPOSITION BOOKS, CLEANSING TISSUE, WAX PAPER AND SHELF PAPER, AND GUMMED PAPER TAPE. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed April 16, 1929. Serial No. 282,497. PUBLISHED DECEMBER 24, 1929. Class 37.

268,241. PENCILS, PENCIL AND INK WRITING PADS, PAPER TABLETS, MEMORANDUM AND ACCOUNT BOOKS, DIARIES, COMPOSITION BOOKS, CLEANSING TISSUE, WAX PAPER AND SHELF PAPER, GUMMED PAPER TAPE. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed April 16, 1929. Serial No. 282,495. PUBLISHED DECEMBER 24, 1929. Class 37.

268,242. NONMETALLIC WASHERS, FAUCET CUSHIONS, AND NONMETALLIC BIBB WASHERS. J. A. SEXAUER MFG. CO., INC., New York, N. Y.
Filed April 13, 1929. Serial No. 282,375. PUBLISHED DECEMBER 24, 1929. Class 35.

268,243. PYROPHORIC AND FRICTION LIGHTERS. SOCIÉTÉ À RESPONSABILITÉ LIMITÉE DITE "GUY DE VADIMON," Paris, France.
Filed April 11, 1929. Serial No. 282,260. PUBLISHED DECEMBER 31, 1929. Class 34.

268,244. SHAVING SOAP IN CREAM FORM. THE GLESSNER COMPANY, Findlay, Ohio.
Filed April 11, 1929. Serial No. 282,238. PUBLISHED DECEMBER 17, 1929. Class 4.

268,245. SHIPPING CONTAINERS MADE PRINCIPALLY FROM CORRUGATED FIBER BOARD. IOWA FIBER BOX COMPANY, Keokuk, Iowa.
Filed April 9, 1929. Serial No. 282,115. PUBLISHED DECEMBER 31, 1929. Class 2.

268,246. MEN'S AND BOYS' FOOTBALL TROUSERS, STOCKINGS, SWEATERS; SPORTS, DRESS, AND WORK SHIRTS. E. S. TWINING & Co., New York, N. Y., assignor to Wellington, Sears & Company, New York, N. Y.
Filed May 23, 1929. Serial No. 284,550. PUBLISHED DECEMBER 17, 1929. Class 39.

268,247. CANNED SALMON. OCEANIC SALES CO., Seattle, Wash.
Filed May 20, 1929. Serial No. 284,362. PUBLISHED DECEMBER 31, 1929. Class 46.

268,248. COMPOSITION OF MATTER USED AS A SOIL CONDITIONER. FALLING SPRING LIME COMPANY, INC., Covington, Va.
Filed October 8, 1929. Serial No. 290,779. PUBLISHED DECEMBER 24, 1929. Class 10.

268,249. BRUSHES. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio.
Filed August 5, 1929. Serial No. 288,135. PUBLISHED DECEMBER 24, 1929. Class 29.

268,250. CIGARS. ROSSI CIGAR CO., Oakland, Calif.
Filed July 3, 1929. Serial No. 286,594. PUBLISHED DECEMBER 24, 1929. Class 17.

268,251. RAZOR BLADES. FRANK NAGEL, doing business as Crescent Mfg. Co., Fremont, Ohio.
Filed October 22, 1929. Serial No. 291,400. PUBLISHED DECEMBER 24, 1929. Class 28.

268,252. RAZOR BLADES. CARL KLAAS, doing business as Carl Klaas, a Firm, Solingen, Germany.
Filed October 21, 1929. Serial No. 291,339. PUBLISHED DECEMBER 24, 1929. Class 28.

268,253. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND FOR SYRUPS, EXTRACTS, AND CONCENTRATES USED IN MAKING THE SAME. THE HOWDY COMPANY, St. Louis, Mo.
Filed October 21, 1929. Serial No. 291,337. PUBLISHED DECEMBER 24, 1929. Class 45.

268,254. ADHESIVES — NAMELY, COLD-PATCHING TUBE GUM, COLD RUBBER-PATCHING CEMENT, AND QUICK-CURE RUBBER CEMENT. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 18, 1929. Serial No. 291,217. PUBLISHED DECEMBER 24, 1929. Class 5.

268,255. BREAD. HOWARD B. TOLLEY, Newark, N. J.
Filed October 17, 1929. Serial No. 291,184. PUBLISHED DECEMBER 24, 1929. Class 46.

268,256. ACCELERATOR PEDALS FOR MOTOR VEHICLES. QUEENSBORO TOOL & DIE CO., INC., Long Island City, N. Y.
Filed October 12, 1929. Serial No. 291,024. PUBLISHED DECEMBER 24, 1929. Class 23.

268,257. BEDS, BED PANELS, DRESSERS, ETC. BARKER BROS. INCORPORATED, Los Angeles, Calif.
Filed October 9, 1929. Serial No. 290,808. PUBLISHED DECEMBER 24, 1929. Class 32.

268,258. SHOVELS. BRIGHT & COMPANY, Reading, Pa.
Filed October 5, 1929. Serial No. 290,684. PUBLISHED DECEMBER 24, 1929. Class 23.

268,259. LEATHER-COVERED GOODS AND ARTICLES. DEWITT VAN EVERA, Chicago, Ill.
Filed October 2, 1929. Serial No. 290,532. PUBLISHED DECEMBER 24, 1929. Class 3.

268,260. MACHINES FOR PRODUCING GEARS AND FOR PARTS FOR SAID MACHINERY. THE GLEASON WORKS, Rochester, N. Y.
Filed October 2, 1929. Serial No. 290,510. PUBLISHED DECEMBER 24, 1929. Class 23.

268,261. BED SPRINGS, MATTRESSES, BEDS, ETC. L. BAMBERGER & Co., Newark, N. J.
Filed September 27, 1929. Serial No. 290,290. PUBLISHED DECEMBER 24, 1929. Class 32.

268,262. EGGS. THE COLORADO POULTRYMEN'S EXCHANGE, Denver, Colo.
Filed September 26, 1929. Serial No. 290,243. PUBLISHED DECEMBER 24, 1929. Class 46.

268,263. GASKETS. VICTOR MANUFACTURING & GASKET Co., Chicago, Ill.
Filed September 20, 1929. Serial No. 290,042. PUBLISHED DECEMBER 24, 1929. Class 35.

268,264. BROOMS. PIGGLY WIGGLY CORPORATION, Cincinnati, Ohio.
Filed November 4, 1929. Serial No. 292,006. PUBLISHED DECEMBER 24, 1929. Class 29.

268,265. BROOMS. PIGGLY WIGGLY CORPORATION, Cincinnati, Ohio.
Filed November 4, 1929. Serial No. 292,005. PUBLISHED DECEMBER 24, 1929. Class 29.

268,266. CIGARS. FRANK P. LEWIS CIGAR CO., Peoria, Ill.
Filed October 26, 1929. Serial No. 291,624. PUBLISHED DECEMBER 24, 1929. Class 17.

268,267. CIGARS. FRANK P. LEWIS CIGAR CO., Peoria, Ill.
Filed October 26, 1929. Serial No. 291,628. PUBLISHED DECEMBER 24, 1929. Class 17.

268,268. CIGARETTE AND CIGAR CASES. WALES NOVELTIES CORPORATION, New York, N. Y.
Filed October 12, 1929. Serial No. 291,039. PUBLISHED DECEMBER 24, 1929. Class 8.

268,269. WATCHES. ELGIN NATIONAL WATCH COMPANY, Chicago, Ill.
Filed October 11, 1929. Serial No. 290,940. PUBLISHED DECEMBER 24, 1929. Class 27.

268,270. INDOOR AND OUTDOOR PLAYBALLS. RAWLINGS MANUFACTURING COMPANY, St. Louis, Mo.
Filed November 18, 1929. Serial No. 292,553. PUBLISHED DECEMBER 31, 1929. Class 22.

268,271. BOARD GAME. PARKER BROTHERS INC., Portland, Me., and Salem, Mass.
Filed November 14, 1929. Serial No. 292,414. PUBLISHED DECEMBER 31, 1929. Class 22.

268,272. CASTING GOLD FOR DENTISTS' USE. JULIUS ADERER, INC., New York, N. Y.
Filed November 5, 1929. Serial No. 292,023. PUBLISHED DECEMBER 24, 1929. Class 44.

268,273. ZINC ALLOY. ILLINOIS ZINC COMPANY, Chicago, Ill.
Filed October 30, 1929. Serial No. 291,769. PUBLISHED DECEMBER 24, 1929. Class 14.

268,274. PAINT FOR CLOTHES CLOSETS, CHESTS, ETC. GEORGE E. UNDERHILL, doing business as C-Dar-Flo Manufacturing Co., Fort Wayne, Ind.
Filed October 28, 1929. Serial No. 291,704. PUBLISHED DECEMBER 24, 1929. Class 16.

268,275. PERMANENT HAIR WAVING APPARATUS. RINGLETTE PERMANENT COMPANY, San Francisco, Calif.
Filed October 28, 1929. Serial No. 291,696. PUBLISHED DECEMBER 24, 1929. Class 44.

268,276. PERFUME AND MEDICINAL ATOMIZERS. MARCEL FRANCK, INC., New York, N. Y.
Filed October 25, 1929. Serial No. 291,560. PUBLISHED DECEMBER 24, 1929. Class 44.

268,277. BOWLING ALLEYS AND PARTS THEREOF. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill., and Wilmington, Del.
Filed October 25, 1929. Serial No. 291,549. PUBLISHED DECEMBER 24, 1929. Class 22.

268,278. ALUMINUM POWDER FOR USE AS PAINT PIGMENT. ULTRA CHEMICAL COMPANY, New York, N. Y.
Filed October 23, 1929. Serial No. 291,486. PUBLISHED DECEMBER 24, 1929. Class 16.

268,279. HAIR-WAVING PADS. ARLETTE, INC., Louisville, Ky.
Filed October 22, 1929. Serial No. 291,377. PUBLISHED DECEMBER 24, 1929. Class 44.

268,280. BABBITT METAL. JAMES A. HALL, doing business as Electric Babbitt Metals Company, Los Angeles, Calif.
Filed October 21, 1929. Serial No. 291,333. PUBLISHED DECEMBER 24, 1929. Class 14.

268,281. CERTAIN NAMED PAINT PRODUCTS. CAPITOL PAINT & VARNISH WORKS, Chicago, Ill.
Filed October 21, 1929. Serial No. 291,321. PUBLISHED DECEMBER 24, 1929. Class 16.

268,282. TARRED COD LINES, TARRED HALIBUT LINES, AND WHITE COTTON FISHLINES. YAWGO LINE & TWINE COMPANY, Rockville, R. I.
Filed October 18, 1929. Serial No. 291,251. PUBLISHED DECEMBER 24, 1929. Class 22.

268,283. TOY BUILDING BLOCKS. MAIN TOY COMPANY, Oskaloosa, Iowa.
Filed October 17, 1929. Serial No. 291,194. PUBLISHED DECEMBER 31, 1929. Class 22.

268,284. POLISHING COMPOUND FOR AUTOMOBILE BODIES, FURNITURE, AND WOODWORK. THE ANCO COMPANY, Cleveland, Ohio.
Filed October 16, 1929. Serial No. 291,108. PUBLISHED DECEMBER 24, 1929. Class 16.

268,285. POLISH FOR AUTOMOBILES, FURNITURE, AND WOODWORK. DELFO PERRUCCI, doing business as Phoebus Chemical Co., New York, N. Y.
Filed October 12, 1929. Serial No. 291,022. PUBLISHED DECEMBER 24, 1929. Class 16.

268,286. LACQUER AND VARNISH. TWIN CITY SHELLAC CO. INC., Brooklyn, N. Y.
Filed October 9, 1929. Serial No. 290,863. PUBLISHED DECEMBER 24, 1929. Class 16.

268,287. VIBRATING AND HEATING APPARATUS USED FOR THERAPEUTIC PURPOSES. RENWAL SCIENTIFIC ENGINEERING COMPANY, Chicago, Ill.
Filed October 5, 1929. Serial No. 290,717. PUBLISHED DECEMBER 24, 1929. Class 44.

268,288. SHEET STEEL. BENJAMIN WOLFF & COMPANY, Chicago, Ill.
Filed September 28, 1929. Serial No. 290,834. PUBLISHED DECEMBER 24, 1929. Class 14.

268,289. DRY, READY-MIXED, AND PASTE PAINTS. DURABLE PAINT COMPANY, INC., Brooklyn, N. Y.
Filed September 19, 1929. Serial No. 289,968. PUBLISHED DECEMBER 24, 1929. Class 16.

268,290. ABNEY HAND LEVELS, RULERS, AIR METERS, ETC. CHARLES BRUNING COMPANY, INC., New York, N. Y.
Filed December 29, 1928. Serial No. 277,400. PUBLISHED DECEMBER 24, 1929. Class 26.

268,291. FERROUS, NONFERROUS, AND METAL ALLOY CASTINGS AND FORGINGS. WILLIAM LANGBEIN BROS., Brooklyn, N. Y.
Filed December 28, 1928. Serial No. 277,302. PUBLISHED DECEMBER 24, 1929. Class 14.

268,292. PRESS METAL MACHINERY, PUNCH PRESSES, AND PARTS. LA SALLE MACHINE WORKS, INC., Chicago, Ill.
Filed December 21, 1928. Serial No. 277,067. PUBLISHED DECEMBER 24, 1929. Class 23.

268,293. COFFEE, TEA, COCOA, ETC. AMERICAN GROCERY COMPANY, Hoboken, N. J.
Filed April 9, 1929. Serial No. 282,089. PUBLISHED DECEMBER 17, 1929. Class 46.

268,294. NATURAL BEEF AND CALVES'-FEET JELLY. THERESA LOEWY, St. Louis, Mo.
Filed April 2, 1929. Serial No. 281,740. PUBLISHED DECEMBER 24, 1929. Class 46.

268,295. WOMEN'S WEARING APPAREL CONSISTING OF BLOUSES, SKIRTS, SUITS, DRESSES, AND COATS. SAMUEL GORDON, San Francisco, Calif.
Filed April 2, 1929. Serial No. 281,730. PUBLISHED DECEMBER 24, 1929. Class 39.

268,296. URNS, ACCESSORIES FOR URNS, STEAM TABLES, ETC. THE FIREBRAND KITCHEN EQUIPMENT COMPANY, New York, N. Y.; Cincinnati, Ohio; and Chicago, Ill.
Filed March 25, 1929. Serial No. 281,278. PUBLISHED DECEMBER 31, 1929. Class 13.

268,297. HOSIERY, KNITTED AND TEXTILE FABRIC UNDERWEAR FOR THE USE OF MEN, WOMEN, AND CHILDREN, AND NECKWEAR FOR MEN AND BOYS, FOUR-IN-HAND AND BOW TIES TO BE MADE FROM BOTH TEXTILE FABRIC AND KNITTED FABRIC. LOCKWOVEN HOSIERY COMPANY, St. Louis, Mo.
Filed March 16, 1929. Serial No. 280,848. PUBLISHED DECEMBER 24, 1929. Class 39.

268,298. PERPETUAL AND CONTINUOUS SERIES OF VOLUMES CONTAINING LECTURES AND ARTICLES AND OTHER SIMILAR MATTER. ALBERT JOHN LOWRY, Chicago, Ill.
Filed February 27, 1929. Serial No. 280,029. PUBLISHED DECEMBER 17, 1929. Class 38.

268,299. CERTAIN NAMED WEARING APPAREL. KNOX HAT COMPANY, INC., New York, N. Y.
Filed February 20, 1929. Serial No. 279,670. PUBLISHED DECEMBER 24, 1929. Class 39.

268,300. AUTOMATIC COAL BURNERS. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg.
Filed February 20, 1929. Serial No. 279,652. PUBLISHED DECEMBER 31, 1929. Class 34.

268,301. BURIAL ROBES. MRS. ALBERT F. MATTISON, doing business as The Minute-Robe Company, Buffalo, N. Y.
Filed February 18, 1929. Serial No. 279,553. PUBLISHED DECEMBER 24, 1929. Class 39.

268,302. PORTABLE HAND FIRE EXTINGUISHERS, SAWS, TWIST DRILLS, ETC. INDUSTRIAL SUPPLY COMPANY, Salt Lake City, Utah.
Filed February 16, 1929. Serial No. 279,473. PUBLISHED DECEMBER 24, 1929. Class 23.

268,303. AIRPLANES AND CONSTRUCTIVE OR STRUCTURAL PARTS OF AIRPLANES. HAMILTON METALPLANE CO., Milwaukee, Wis.
Filed February 16, 1929. Serial No. 279,470. PUBLISHED DECEMBER 31, 1929. Class 19.

268,304. CANNED FRUITS AND VEGETABLES. MAKEPEACE PRESERVING COMPANY, Wareham, Mass.
Filed February 14, 1929. Serial No. 279,352. PUBLISHED DECEMBER 31, 1929. Class 46.

268,305. CANS. AMERICAN CAN COMPANY, New York, N. Y.
Filed February 13, 1929. Serial No. 279,256. PUBLISHED DECEMBER 31, 1929. Class 2.

268,306. RUBBER TIRES FOR VEHICLES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed February 4, 1929. Serial No. 278,859. PUBLISHED APRIL 2, 1929. Class 35.

268,307. SANITARY PAPER DRESS SHIELDS FOR USE IN TRYING ON GARMENTS AND METAL CLIPS FOR ATTACHMENT TO GARMENTS IN CONNECTION WITH THE DISPLAY THEREOF. HARRY SCHWARTZMAN, doing business as Protex Products Company, Jersey City, N. J.
Filed January 28, 1929. Serial No. 278,557. PUBLISHED DECEMBER 24, 1929. Class 40.

268,308. SOAP. RUDOLPH R. ROSENBAUM, doing business as Western Chemical Laboratories, Chicago, Ill.
Filed January 19, 1929. Serial No. 278,191. PUBLISHED FEBRUARY 26, 1929. Class 4.

268,309. LOOSE-LEAF BINDERS, PAPER, INDEX CARDS, ETC. MORLAND & IMPEY LIMITED, Birmingham, England.
Filed January 16, 1929. Serial No. 278,054. PUBLISHED DECEMBER 24, 1929. Class 37.

268,310. CUTLERY—NAMELY, SAFETY RAZORS, BLADES FOR SAFETY RAZORS, MECHANICAL RAZOR-BLADE STROPPERS. ROTH-BÜCHNER AKTIENGESELLSCHAFT, Berlin-Tempelhof, Germany.
Filed January 12, 1929. Serial No. 277,919. PUBLISHED DECEMBER 24, 1929. Class 23.

268,311. PHOTOGRAPHIC PRINTS AND ENLARGEMENTS. EDWARD MADSEN & SONS, Chicago, Ill.
Filed January 11, 1929. Serial No. 277,839. PUBLISHED DECEMBER 17, 1929. Class 38.

268,312. PAPER NAPKINS, PAPER DOILIES, PAPER TABLECLOTHS, PAPER TOWELS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed January 3, 1929. Serial No. 277,537. PUBLISHED DECEMBER 17, 1929. Class 37.

268,313. MONTHLY PUBLICATION. CO-OPERATIVE MANAGER AND FARMER, Minneapolis, Minn.
Filed October 28, 1929. Serial No. 291,707. PUBLISHED DECEMBER 17, 1929. Class 38.

268,314. TRADING COUPONS. AMERICAN BEAUTY COUPON COMPANY, St. Louis, Mo.
Filed October 28, 1929. Serial No. 291,653. PUBLISHED DECEMBER 24, 1929. Class 38.

268,315. WOOLEN GOODS IN THE PIECE AND IN CUT LENGTHS. S. STEIN & CO., New York, N. Y.
Filed October 25, 1929. Serial No. 291,592. PUBLISHED DECEMBER 24, 1929. Class 42.

268,316. PHOTOGRAPHS. FOTO-FAX, INC., San Francisco, Calif.
Filed October 25, 1929. Serial No. 291,559. PUBLISHED DECEMBER 17, 1929. Class 38.

268,317. MONTHLY MAGAZINE. THE SPRAGUE PUBLISHING CO., Detroit, Mich.
Filed October 24, 1929. Serial No. 291,533. PUBLISHED DECEMBER 17, 1929. Class 38.

268,318. BOOKS PUBLISHED PERIODICALLY. JEWISH BIOGRAPHICAL BUREAU, INC., New York, N. Y.
Filed October 23, 1929. Serial No. 291,458. PUBLISHED DECEMBER 17, 1929. Class 38.

268,319. WEEKLY PUBLICATION. INDEPENDENT OIL MEN OF AMERICA, Chicago, Ill.
Filed October 22, 1929. Serial No. 291,390. PUBLISHED DECEMBER 17, 1929. Class 38.

268,320. CARDS. THE BUZZA COMPANY INC., Minneapolis, Minn.
Filed October 21, 1929. Serial No. 291,319. PUBLISHED DECEMBER 17, 1929. Class 38.

268,321. PUBLICATIONS ISSUED AT REGULAR AND IRREGULAR INTERVALS. CHILDS, JEFFRIES & CO., INCORPORATED, Boston, Mass.
Filed October 16, 1929. Serial No. 291,114. PUBLISHED DECEMBER 17, 1929. Class 38.

268,322. MANILA ROPE, SISAL ROPE AND CORDAGE. YNCHAUSTI & CO., Manila, P. I., and San Francisco, Calif.
Filed October 15, 1929. Serial No. 291,103. PUBLISHED DECEMBER 17, 1929. Class 7.

268,323. PIECE GOODS OF COTTON, LINEN, SILK, RAYON, AND COMBINATIONS THEREOF. POWDRELL & ALEXANDER, INC., Boston, Mass.
Filed November 15, 1929. Serial No. 292,461. PUBLISHED DECEMBER 24, 1929. Class 42.

268,324. BED BLANKETS OF TEXTILE FABRIC. F. C HUYCK & SONS, Albany and Rensselaer, N. Y.
Filed November 18, 1929. Serial No. 292,556. PUBLISHED DECEMBER 24, 1929. Class 42.

268,325. COTTON FABRICS IN THE PIECE. DAVIS & CATTERALL, INC., Passaic, N. J., and New York, N. Y.
Filed November 18, 1929. Serial No. 292,552. PUBLISHED DECEMBER 24, 1929. Class 42.

268,326. WOOLEN YARNS. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed November 12, 1929. Serial No. 292,844. PUBLISHED DECEMBER 24, 1929. Class 43.

268,327. TEXTILE BLANKETS. THE ESMOND MILLS, Esmond, R. I.
Filed November 12, 1929. Serial No. 292,816. PUBLISHED DECEMBER 24, 1929. Class 42.

268,328. COMPENSATOR FOR FIREARMS. RICHARD M. CUTTS, Jr., Quantico, Va.
Filed November 12, 1929. Serial No. 292,815. PUBLISHED DECEMBER 24, 1929. Class 9.

268,329. MONTHLY MAGAZINE. MID-WEST PUBLISHERS, INC., St. Louis, Mo.
Filed November 9, 1929. Serial No. 292,221. PUBLISHED DECEMBER 24, 1929. Class 38.

268,330. HANDKERCHIEFS. THE ROCHESTER CO. INC., Enid, Okla.
Filed November 8, 1929. Serial No. 292,178. PUBLISHED DECEMBER 24, 1929. Class 42.

268,331. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed October 31, 1929. Serial No. 291,851. PUBLISHED DECEMBER 24, 1929. Class 9.

268,332. STRIPS OF HUMOROUS DRAWINGS REPRESENTING THE SAME CHARACTERS IN DIFFERENT SITUATIONS. THE BELL SYNDICATE, INC., New York, N. Y.
Filed October 11, 1929. Serial No. 290,933. PUBLISHED DECEMBER 17, 1929. Class 38.

268,333. TOILET TISSUE. JOEL S. HARTMAN, New York, N. Y.
Filed October 9, 1929. Serial No. 290,883. PUBLISHED DECEMBER 24, 1929. Class 37.

268,334. QUARTERLY MAGAZINE. THE FEDERATION OF SEWAGE WORKS ASSOCIATIONS, New York, N. Y.
Filed October 9, 1929. Serial No. 290,836. PUBLISHED DECEMBER 17, 1929. Class 38.

268,335. PUBLICATIONS ISSUED AT STATED INTERVALS. CHILDS, JEFFRIES & CO. INCORPORATED, Boston, Mass.
Filed October 9, 1929. Serial No. 290,819. PUBLISHED DECEMBER 17, 1929. Class 38.

268,336. WOOLEN GOODS IN THE PIECE AND CUT LENGTHS. AARON I. BINSKY, INC., New York, N. Y.
Filed October 4, 1929. Serial No. 290,646. PUBLISHED DECEMBER 24, 1929. Class 42.

268,337. PUBLICATION ISSUED AT IRREGULAR INTERVALS. MCKEMSON & ROBBINS, INCORPORATED, Bridgeport, Conn.
Filed September 27, 1929. Serial No. 290,318. PUBLISHED DECEMBER 17, 1929. Class 38.

268,338. MONTHLY PUBLICATION. GOOD STORY MAGAZINE COMPANY, INC., New York, N. Y.
Filed September 23, 1929. Serial No. 290,124. PUBLISHED DECEMBER 24, 1929. Class 38.

268,339. VISCOSE YARNS, THREADS, AND FILAMENTS. DU PONT RAYON COMPANY, New York, N. Y.
Filed September 21, 1929. Serial No. 290,058. PUBLISHED DECEMBER 24, 1929. Class 43.

268,340. A MONTHLY PUBLICATION. NED WAYBURN STUDIOS OF STAGE DANCING INC., New York, N. Y.
Filed September 6, 1929. Serial No. 289,429. PUBLISHED DECEMBER 24, 1929. Class 38.

268,341. LEAFLETS, PAMPHLETS, AND BOOKLETS. NED WAYBURN STUDIOS OF STAGE DANCING INC., New York, N. Y.
Filed September 6, 1929. Serial No. 289,428. PUBLISHED DECEMBER 24, 1929. Class 38.

268,342. WOVEN TEXTILE RUGS AND CARPETS. BIGELOW-HARTFORD CARPET COMPANY, Thompsonville, Conn., now by change of name Bigelow-Sanford Carpet Co., Inc.
Filed September 6, 1929. Serial No. 289,387. PUBLISHED DECEMBER 24, 1929. Class 42.

268,343. LETTERHEADS. THE TILE & MANTEL CONTRACTORS' ASSOCIATION OF AMERICA, Wilmington, Del.
Filed August 28, 1929. Serial No. 289,134. PUBLISHED DECEMBER 17, 1929. Class 37.

268,344. CONTRACT-BRIDGE SCORE PAD. CHARLES E. WARNER, Oakland, Calif.
Filed August 27, 1929. Serial No. 289,093. PUBLISHED DECEMBER 17, 1929. Class 37.

268,345. LETTERHEADS, CORRESPONDENCE CARDS, AND STATIONERY—NAMELY, WRITING PAPER, ENVELOPES, BLOTTERS, TISSUE AND WRAPPING PAPER, PENS, PENCILS, AND FOUNTAIN-PEN SETS NOT MADE OF PRECIOUS METAL. STERN BROTHERS, New York, N. Y.
Filed August 17, 1929. Serial No. 288,670. PUBLISHED DECEMBER 24, 1929. Class 37.

268,346. PUBLICATION ISSUED WEEKLY. WISCONSIN FARMER COMPANY, Racine, Wis.
Filed August 14, 1929. Serial No. 288,580. PUBLISHED DECEMBER 24, 1929. Class 38.

268,347. MANILA ROPE, SISAL ROPE, AND CORDAGE. YNCHAUSTI & CO., Manila, P. I., and San Francisco, Calif.
Filed October 15, 1929. Serial No. 291,102. PUBLISHED DECEMBER 17, 1929. Class 7.

268,348. CATALOGS. MAY & MALONE, Chicago, Ill.
Filed October 14, 1929. Serial No. 291,063. PUBLISHED DECEMBER 17, 1929. Class 38.

268,349. WAXED PAPER. WAXED PRODUCTS CO., INC., Brooklyn, N. Y.
Filed October 12, 1929. Serial No. 291,040. PUBLISHED DECEMBER 24, 1929. Class 37.

268,350. BOND, LEDGER, AND WRITING PAPERS. EMPIRE PAPER COMPANY, Chicago, Ill.
Filed October 12, 1929. Serial No. 291,001. PUBLISHED DECEMBER 17, 1929. Class 37.

268,351. BOND, LEDGER, AND WRITING PAPERS. EMPIRE PAPER COMPANY, Chicago, Ill.
Filed October 12, 1929. Serial No. 291,000. PUBLISHED DECEMBER 17, 1929. Class 37.

268,352. SOAP POWDER. THE MINNESOTA CHEMICAL CO., INC., St. Paul, Minn.
Filed October 25, 1929. Serial No. 291,571. PUBLISHED DECEMBER 17, 1929. Class 4.

268,353. SCOURING POWDER. THE MINNESOTA CHEMICAL CO., INC., St. Paul, Minn.
Filed October 25, 1929. Serial No. 291,569. PUBLISHED DECEMBER 17, 1929. Class 4.

268,354. PREPARATION FOR CLEANING WOODWORK, ETC. CARRIE H. RAMBONNET, doing business as Mar-Vel-O Company, Chicago, Ill.
Filed October 25, 1929. Serial No. 291,578. PUBLISHED DECEMBER 24, 1929. Class 4.

268,355. CLEANER, BOTH CAUSTIC AND ABRASIVE, IN PASTE AND LIQUID FORM FOR FLOORS, FURNITURE, WOODWORK, WALLS, AND WINDOW SHADES; OIL SOAPS, METAL POLISH, AND NICKEL PASTE. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind.
Filed June 2, 1928. Serial No. 267,388. PUBLISHED OCTOBER 23, 1928. Class 4.

268,356. COFFEE. SOUTHERN GROCERY COMPANY, San Marcos, Tex.
Filed May 17, 1928. Serial No. 266,563. PUBLISHED DECEMBER 24, 1929. Class 46.

268,357. VEGETABLE MUCILAGE OF HEMICELLULOSE CONSTITUTION. TRAGASOL PRODUCTS LIMITED, Hooton, near Birkenhead, England.
Filed February 17, 1928. Serial No. 261,848. PUBLISHED DECEMBER 24, 1929. Class 5.

268,358. VEGETABLE MUCILAGE OF HEMICELLULOSE CONSTITUTION. TRAGASOL PRODUCTS LIMITED, Hooton, near Birkenhead, England.
Filed February 17, 1928. Serial No. 261,846. PUBLISHED DECEMBER 24, 1929. Class 5.

268,359. METALLIC PENCILS AND MECHANICAL PENCILS. ZEMBEI KOBAYASHI, Tokyo, Japan.
Filed December 23, 1927. Serial No. 259,306. PUBLISHED DECEMBER 17, 1929. Class 37.

268,360. LIQUID CARBON REMOVER. ROBERT JOHN, Long Branch, N. J.
Filed October 29, 1927. Serial No. 256,780. PUBLISHED DECEMBER 24, 1929. Class 6.

268,361. HOSIERY. KRAMER BROTHERS, New York, N. Y.
Filed July 19, 1927. Serial No. 252,284. PUBLISHED DECEMBER 24, 1929. Class 39.

268,362. SHAVING CREAM. FLORIAN, INC., Detroit, Mich.
Filed December 18, 1928. Serial No. 276,932. PUBLISHED DECEMBER 17, 1929. Class 4.

268,363. EMPTY BOXES AND CASES. SCHALL & CIE., Paris, France.
Filed December 8, 1928. Serial No. 276,459. PUBLISHED DECEMBER 24, 1929. Class 2.

268,364. WATERPROOF COATS FOR MEN, WOMEN, AND CHILDREN. WINDRAM MANUFACTURING CO., Boston and South Boston, Mass.
Filed December 5, 1928. Serial No. 276,356. PUBLISHED DECEMBER 17, 1929. Class 39.

268,365. CANNED STRAINED VEGETABLE PRODUCTS AND FRUITS—NAMELY, STRAINED VEGETABLE SOUP, PEAS, CARROTS, SPINACH, PRUNES. FREMONT CANNING COMPANY, Fremont, Mich.
Filed November 27, 1928. Serial No. 275,892. PUBLISHED DECEMBER 24, 1929. Class 46.

268,366. HOUSE BUSINESS PUBLICATIONS ISSUED FROM TIME TO TIME RELATIVE TO INVESTMENTS. KARL G. REGNOLDS, Los Angeles, Calif.
Filed November 21, 1928. Serial No. 275,630. PUBLISHED DECEMBER 24, 1929. Class 38.

268,367. PERFUMES, TOILET WATERS, AND PERFUMERY. PARFUMERIE ROGER ET GALLET, SOCIETE ANONYME, Paris, France.
Filed November 14, 1928. Serial No. 275,292. PUBLISHED DECEMBER 24, 1929. Class 6.

268,368. POP CORN IN ITS NATURAL STATE AND SALTED POP CORN. BERTHA M. LAYMAN, doing business as American Candy Company, Kansas City, Mo.
Filed November 12, 1928. Serial No. 275,168. PUBLISHED DECEMBER 24, 1929. Class 46.

268,369. TRIPLICATE SETS, WAFFLE MOLDS, FRYING PANS, ETC. NU-ART COOK-WARE CORPORATION, Chicago, Ill.
Filed October 21, 1929. Serial No. 291,354. PUBLISHED DECEMBER 31, 1929. Class 13.

268,370. SHOE POLISHES, SHOE DRESSINGS, AND SHOE-CLEANING COMPOSITIONS. IRVING STERNBERG, doing business as Frenchee Chemical Co., Brooklyn, N. Y.
Filed October 19, 1929. Serial No. 291,298. PUBLISHED DECEMBER 24, 1929. Class 4.

268,371. ANTISLIPPING PREPARATION APPLIED TO THE HAND-GRIP PORTION OF GOLF CLUBS, TENNIS RACKETS, BASEBALL BATS, AND THE LIKE. JOHN E. SALM, doing business as The Pargrip Company, Albany, N. Y.
Filed October 19, 1929. Serial No. 291,293. PUBLISHED DECEMBER 17, 1929. Class 4.

268,372. SOAP. MORTON MANUFACTURING CORPORATION, doing business as Blair Laboratories, Lynchburg, Va.
Filed October 19, 1929. Serial No. 291,285. PUBLISHED DECEMBER 24, 1929. Class 4.

268,373. SOAP, SCOURING COMPOUNDS, AND CLEANING COMPOUNDS FOR TEXTILE FABRICS, AND SULPHONATED OILS FOR THE TREATMENT OF LEATHER. LAUREL SOAP MANUFACTURING CO., INC., Philadelphia, Pa.
Filed October 19, 1929. Serial No. 291,278. PUBLISHED DECEMBER 17, 1929. Class 4.

268,374. CLEANSER. HOWARD B. LAMBERT, doing business as Universal Solvent Company, Philadelphia, Pa.
Filed October 18, 1929. Serial No. 291,228. PUBLISHED DECEMBER 24, 1929. Class 4.

268,375. AUTOMOBILES. NEW ERA MOTORS, INCORPORATED, New York, N. Y.
Filed October 2, 1929. Serial No. 290,518. PUBLISHED DECEMBER 31, 1929. Class 19.

268,376. TABLE HOLLOW WARE OF BASE METAL—NAMELY, PEWTER HOLLOW WARE UNPLATED WITH PRECIOUS METAL. FRIEDMAN SILVER CO., INC., Brooklyn, N. Y.
Filed October 1, 1929. Serial No. 290,460. PUBLISHED DECEMBER 31, 1929. Class 13.

268,377. EMERY CUTTING CLOTH. FRED I. JADEN, doing business as F. Jaden Mfg. Co., Hastings, Nebr.
Filed September 19, 1929. Serial No. 289,972. PUBLISHED DECEMBER 17, 1929. Class 4.

268,378. SOAPS, TOILET SOAP, SHAVING SOAP, GLYCERINE SOAPS, BATH SOAPS, CREAM SOAP, LIQUID GLYCERINE SOAP, AND SILVER-CLEANING SOAP, AND SHAVING CREAM. FRED MÜLHENS INC., New York, N. Y.
Filed September 14, 1929. Serial No. 289,797. PUBLISHED DECEMBER 17, 1929. Class 4.

268,379. FRICTION CIGARETTE LIGHTERS, FRICTION TABLE LIGHTERS, FILLERS FOR LIGHTERS; WOODEN, PEWTER, AND BRASS CANDLESTICKS; AND STATUARY CANDLESTICKS. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 13, 1929. Serial No. 289,786. PUBLISHED DECEMBER 31, 1929. Class 34.

268,380. SOAP DISHES, TOOTHBRUSH HOLDERS, WALL BRACKETS, ETC. MARLBORO WIRE GOODS COMPANY, Marlboro, Mass.
Filed September 7, 1929. Serial No. 289,471. PUBLISHED DECEMBER 31, 1929. Class 13.

268,381. PERCOLATORS, SUGAR BOWLS, PITCHERS, TRAYS, ETC. BUFFALO LAMP & MFG. CO. INC., Buffalo, N. Y.
Filed August 27, 1929. Serial No. 289,068. PUBLISHED DECEMBER 31, 1929. Class 13.

268,382. BENZINE SOAPS. UNITED PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed August 23, 1929. Serial No. 288,941. PUBLISHED DECEMBER 24, 1929. Class 4.

268,383. BENZINE SOAPS. UNITED PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed August 23, 1929. Serial No. 288,940. PUBLISHED DECEMBER 24, 1929. Class 4.

268,384. BENZINE SOAPS. UNITED PRODUCTS COMPANY, INC., North Chicago, Ill.
Filed August 23, 1929. Serial No. 288,939. PUBLISHED DECEMBER 24, 1929. Class 4.

268,385. SOAP CHIPS. THE MINNESOTA CHEMICAL CO., INC., St. Paul, Minn.
Filed October 25, 1929. Serial No. 291,567. PUBLISHED DECEMBER 17, 1929. Class 4.

268,386. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed October 31, 1929. Serial No. 291,850. PUBLISHED DECEMBER 24, 1929. Class 9.

268,387. HAND TOWELS AND BATH TOWELS OF TEXTILE MATERIAL. BOOTT MILLS, Lowell, Mass.
Filed November 10, 1928. Serial No. 275,097. PUBLISHED DECEMBER 24, 1929. Class 42.

268,388. COMPOSITION WATCH CRYSTALS AND TRANSPARENT COMPOSITION DISKS AND PLATES FOR COVERING THE READING DIALS OF MEASURING INSTRUMENTS. THE PERMANENT BEVEL UNBREAKABLE CRYSTAL COMPANY, Pittsburgh, Pa.
Filed November 8, 1928. Serial No. 274,981. PUBLISHED DECEMBER 24, 1929. Class 33.

268,389. TURNING LATHES. MASCHINENFABRIK AUGSBURG-NÜRNBERG AKTIENGESELLSCHAFT, Augsburg, Germany.
Filed November 1, 1928. Serial No. 274,661. PUBLISHED DECEMBER 24, 1929. Class 23.

268,390. MEN'S CLOTHES—NAMELY, OVERCOATS. P. FEINSTEIN & SONS, New York, N. Y.
Filed October 20, 1928. Serial No. 274,040. PUBLISHED DECEMBER 24, 1929. Class 39.

268,391. REFERENCE BOOK AND DIRECTORY FOR LAWYERS, INCLUDING A SERIES OF ANNUAL DIARIES. MATTHEW BENDER & COMPANY, INC., Albany, N. Y.
Filed August 7, 1929. Serial No. 288,216. PUBLISHED DECEMBER 17, 1929. Class 38.

268,392. PIECE GOODS OF COTTON, WOOL, SILK, RAYON, AND LINEN, AND COMBINATIONS THEREOF. FRANK I. DENISON & COMPANY, INC., New York, N. Y.
Filed August 1, 1929. Serial No. 287,959. PUBLISHED DECEMBER 24, 1929. Class 42.

268,393. MECHANICAL PENCILS. DUR-O-LITE PENCIL COMPANY, Chicago, Ill.
Filed July 26, 1929. Serial No. 287,698. PUBLISHED DECEMBER 17, 1929. Class 37.

268,394. MONTHLY MAGAZINE. PLAYGROUND AND RECREATION ASSOCIATION OF AMERICA, INCORPORATED, New York, N. Y.
Filed July 5, 1929. Serial No. 286,680. PUBLISHED DECEMBER 24, 1929. Class 38.

268,395. LAUNDRY WASHING MACHINES. CHARLES H. CANFIELD, doing business as Handy Washer Company, Syracuse, N. Y.
Filed November 19, 1929. Serial No. 292,576. PUBLISHED DECEMBER 31, 1929. Class 24.

268,396. AIRPLANES. STAR AIRCRAFT COMPANY, Bartlesville, Okla.
Filed November 18, 1929. Serial No. 292,556. PUBLISHED DECEMBER 31, 1929. Class 19.

268,397. FIBRE-BOARD PACKING CASES. ROBERT GAYLORD INCORPORATED, St. Louis, Mo.
Filed November 11, 1929. Serial No. 292,264. PUBLISHED DECEMBER 31, 1929. Class 2.

268,398. ABRASIVE PAPER AND CLOTH, ETC. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y.
Filed November 9, 1929. Serial No. 292,200. PUBLISHED DECEMBER 17, 1929. Class 4.

268,399. LAUNDRY WASHING MACHINES. ALTORFER BROS. COMPANY, East Peoria, Ill.
Filed November 9, 1929. Serial No. 292,193. PUBLISHED DECEMBER 31, 1929. Class 24.

268,400. BOLTS. OLIVER IRON & STEEL CORPORATION, Pittsburgh, Pa.
Filed November 8, 1929. Serial No. 292,174. PUBLISHED DECEMBER 31, 1929. Class 13.

268,401. SHAVING CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,144. PUBLISHED DECEMBER 17, 1929. Class 4.

268,402. SHAVING CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,141. PUBLISHED DECEMBER 17, 1929. Class 4.

268,403. SHAVING CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,140. PUBLISHED DECEMBER 17, 1929. Class 4.

268,404. SHAVING CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,138. PUBLISHED DECEMBER 17, 1929. Class 4.

268,405. SHAVING CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,136. PUBLISHED DECEMBER 17, 1929. Class 4.

268,406. BELT DRESSING. CONTINENTAL MACHINERY AND SUPPLY COMPANY, Los Angeles, Calif.
Filed November 5, 1929. Serial No. 292,029. PUBLISHED DECEMBER 24, 1929. Class 4.

268,407. POLISH FOR SILVERWARE, METAL, AND GLASS. SOLSHINE MANUFACTURING COMPANY, Boston, Mass.
Filed October 30, 1929. Serial No. 291,802. PUBLISHED DECEMBER 24, 1929. Class 4.

268,408. MONOPLANES. MONO-AIRCRAFT CORPORATION, Moline, Ill.
Filed October 30, 1929. Serial No. 291,779. PUBLISHED DECEMBER 31, 1929. Class 19.

268,409. WALL-PAPER CLEANER IN PASTE FORM. CHARLES W. KENSINGER, doing business as Servu Cleaner & Mfg. Co., Wilkinsburg, Pa.
Filed October 30, 1929. Serial No. 291,774. PUBLISHED DECEMBER 17, 1929. Class 4.

268,410. MANGERS AND TANKS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 28, 1929. Serial No. 291,672. PUBLISHED DECEMBER 31, 1929. Class 2.

268,411. EQUIPMENT—NAMELY, FLUES, LOUVERS, ETC. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 28, 1929. Serial No. 291,670. PUBLISHED DECEMBER 31, 1929. Class 34.

268,412. METAL GUTTER AND MANGER DRAINS, METAL GATES, ETC. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 28, 1929. Serial No. 291,669. PUBLISHED DECEMBER 31, 1929. Class 13.

268,413. LIQUID PREPARATION FOR SHAVING PURPOSES. THE TONSOR COMPANY, St. Louis, Mo.
Filed October 26, 1929. Serial No. 291,641. PUBLISHED DECEMBER 17, 1929. Class 4.

268,414. FOOD PRODUCTS. ERNST LUDWIG ZIEGER, Mikosd, Hungary.
Filed June 1, 1915. Serial No. 87,043. PUBLISHED JULY 17, 1917. Class 46.

268,415. SEPARABLE SNAP FASTENERS. CINCH MANUFACTURING CORPORATION, Chicago, Ill.
Filed September 4, 1928. Serial No. 271,878. PUBLISHED DECEMBER 31, 1929. Class 13.

268,416. FOOT POWDER, DAMIANA, LIVER PILLS, ETC. JOHN HEILAND CO., Chicago, Ill.
Filed August 10, 1928. Serial No. 270,840. PUBLISHED DECEMBER 24, 1929. Class 6.

268,417. SOAP FOR HAIR AND SKIN. FRANCES FOX LABORATORIES INCORPORATED, Ridgewood, N. J.
Filed August 7, 1928. Serial No. 270,667. PUBLISHED DECEMBER 24, 1929. Class 4.

268,418. MARSHMALLOWS. THE SNOWWELL MFG. CO., Chicago, Ill.
Filed July 16, 1928. Serial No. 269,094. PUBLISHED DECEMBER 10, 1929. Class 46.

268,419. TAXICABS. YELLOW TAXI CORP. NEW YORK, New York, N. Y.
Filed July 5, 1928. Serial No. 269,170. PUBLISHED DECEMBER 31, 1929. Class 19.

268,420. MEN'S AND WOMEN'S STRAW, PANAMA, AND FELT HATS. BRONSTON BROS. & CO., INC., New York, N. Y.
Filed August 2, 1929. Serial No. 288,003. PUBLISHED DECEMBER 24, 1929. Class 39.

268,421. LEATHER SHOES. DAVID SILVERMAN, New Castle, Pa.
Filed July 5, 1929. Serial No. 286,661. PUBLISHED DECEMBER 24, 1929. Class 39.

268,422. SHOES CONSTRUCTED OF HORSEHIDE LEATHER AND ALSO CONSTRUCTED FROM HORSEHIDE LEATHER WITH A COMPOSITION RUBBER SOLE. THE WOLVERINE SHOE AND TANNING CORPORATION, Rockford, Mich.
Filed June 21, 1929. Serial No. 285,955. PUBLISHED DECEMBER 24, 1929. Class 39.

268,423. CHILDREN'S DRESSES. STERN MOSS & COMPANY INC., New York, N. Y.
Filed June 4, 1929. Serial No. 285,049. PUBLISHED DECEMBER 24, 1929. Class 39.

268,424. CHILDREN'S DRESSES. STERN MOSS & COMPANY, INC., New York, N. Y.
Filed June 4, 1929. Serial No. 285,048. PUBLISHED DECEMBER 24, 1929. Class 39.

268,425. MEDICINAL TONIC. BON VITO PRODUCTS, INC., Buffalo, N. Y.
Filed October 23, 1929. Serial No. 291,434. PUBLISHED DECEMBER 24, 1929. Class 6.

268,426. SODIUM SULPHIDE. BARIUM REDUCTION CORPORATION, Charleston, W. Va.
Filed October 10, 1928. Serial No. 273,519. PUBLISHED DECEMBER 24, 1929. Class 6.

268,427. CHAMPAGNE. KUNKELMANN & CIE. SOCIETE ANONYME, Reims, France.
Filed September 15, 1928. Serial No. 272,500. PUBLISHED DECEMBER 24, 1929. Class 47.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

268,428. (CLASS 12. CONSTRUCTION MATERIALS.) THE FEDERAL ASPHALT PAVING COMPANY, Hamilton, Ohio. Filed June 26, 1929. Serial No. 286,165.

BARBER HOT MIXED MACADAM

For Road-Paving Material Consisting of Stone, Sand, and Asphalt.
Claims use since Jan. 1, 1929.

268,429. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930. Serial No. 295,169.

NASSAU

For Fire Hose.
Claims use since June, 1910.

268,430. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) CURTIS HARVESTERS, INC., Kansas City, Mo. Filed June 27, 1929. Serial No. 286,227.

CURTIS

For Combined Harvesters and Threshers.
Claims use since May, 1928.

268,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FATHER LEE MEDICINES, Chicago, Ill. Filed July 9, 1929. Serial No. 286,824.

Father Lee Medicines

For Salve for Skin Diseases, Cuts, and Injuries; a Compound for Lung and Heart Troubles; a Compound for Use in the Treatment of Toothache, Pharyngitis, Sore Throat, Laryngitis, Tonsilitis, and Kindred Mouth Disorders; a Compound for Rheumatism and Stomach and Kidney Troubles, and Preparations for Treatment of Social Diseases.
Claims use since January, 1929.

268,432. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALFHILL PACKING CORPORATION, INC., Long Beach, Calif. Filed Aug. 21, 1929. Serial No. 288,797.

BEST BUY

For Canned Fish.
Claims use since Jan. 16, 1929.

268,433. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE K-LINDY PRODUCTS CO., Cleveland, Ohio. Filed Sept. 30, 1929. Serial No. 290,415.

LINDY

For a Foot and Skin Lotion.
Claims use since September, 1925.

268,434. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) GAST MANUFACTURING CORPORATION, Bridgman, Mich. Filed Oct. 31, 1929. Serial No. 291,321.

Gast

For a Device for Separating Oil and Water from Compressed Air, a Device for Filtering or Absorbing Oil from Compressed Air, a device for Cooling Compressed Air, a Device for Applying Paint Mechanically by Compressed Air, a Device or Machine for Spraying Paint, and a Rotary Compressor for Generating Compressed Air.
Claims use since 1926.

268,435. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Danville, Ill. Filed Oct. 26, 1929. Serial No. 291,601.

Safety Chimney

For Brick.
Claims use since June 1, 1928.

268,436. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE BORDEN METHOD, INC., Washington, D. C. Filed Nov. 21, 1929. Serial No. 292,652.

TI-WRAP

For Electrical Hair-Waving Apparatus.
Claims use since July 5, 1928.

268,437. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NATIONAL SCREEN SERVICE CORP., New York, N. Y. Filed Nov. 22, 1929. Serial No. 292,745.

PRE-VUES

For Motion-Picture Films.
Claims use since Sept. 18, 1928.

268,438. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM H. GREENLAW, Beverly, Mass. Filed Dec. 18, 1927. Serial No. 258,868.

EZYMOUNT

For Metal Brackets for Supporting Fire-Alarm and Police Signaling Boxes and Other Things.
Claims use since Sept. 26, 1927.

268,439. (CLASS 13. HARDWARE AND PLUMBING, AND STEAM-FITTING SUPPLIES.) KOHLER COMPANY, Kohler, Wis. Filed Mar. 12, 1928. Serial No. 263,045.

KOHLER OF KOHLER

For Pottery Ware—Namely, Lavatories, Manicuring Tables Connected with the Plumbing, Dressing Tables Connected with the Plumbing, Drinking Fountains, Receptors, Bathtubs, Sinks, Water-Closet Bowls, Closet Tanks, Urinals, Bidets, Baby Baths, Laundry Trays, Vitreous-China Accessories Consisting of Garbage and Utensil Containers Connected with the Plumbing and Tumbler Holders, Toothbrush Holders, Hooks, Handrails, Towel Bars, Shelves, Soap Holders, and Paper Holders, and Vitreous-China Parts for Brass Fittings, Consisting of Bolt Caps, Flush-Pipe Covers, Handles, Escutcheons, Drinking-Fountain Heads, Shields, Indices, Cover Plates, and Traps.
Claims use since Aug. 15, 1927.

268,440. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SILENT AUTOMATIC CORPORATION, Detroit, Mich. Filed July 21, 1928. Serial No. 269,992.

SILENT AUTOMATIC
THE NOISELESS OIL BURNER

For Liquid-Fuel Burners.
Claims use since August, 1926.

268,441. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill. Filed Nov. 12, 1928. Serial No. 275,180.

Diamond Test Proves JOHNSONS *Best*

For Ice Skates.
Claims use since Oct. 2, 1928.

268,442. (CLASS 32. FURNITURE AND UPHOLSTERY.) METAL CABINET & EQUIPMENT COMPANY, New York, N. Y. Filed Dec. 22, 1928. Serial No. 277,133.

METALCRAFT

For Steel Hospital Cabinets, Kitchen and Pantry Cabinets, Steel Medicine Cabinets, and Monel-Metal Counters.
Claims use since Oct. 1, 1928.

268,443. (CLASS 37. PAPER AND STATIONERY.) JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J. Filed Dec. 24, 1928. Serial No. 277,158.

BEGINNERS

For Pencils.
Claims use since 1907.

268,444. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE LEHMAN COMPANY OF AMERICA, Cannelton, Ind. Filed Jan. 2, 1929. Serial No. 277,496.

BOW-BAK

For Porch Chairs, Settees, High Chairs, Nursery Chairs, and Children's Rockers.
Claims use since Dec. 10, 1928.

268,445. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH WACYRA, Chicago, Ill. Filed Jan. 26, 1929. Serial No. 278,502.

WARA

For Salve for Hemorrhoids.
Claims use since Jan. 5, 1929.

268,446. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE ROSEVILLE POTTERY COMPANY, Zanesville, Ohio. Filed Jan. 4, 1930. Serial No. 294,403.

ROSEVILLE POTTERY

For Earthenware Articles—Namely, Vases, Pitchers, Jugs, Jardinières, Pedestals, Flower Holders, Window Boxes, Cups, Saucers, Mugs, Plates, Flower Bowls, Mixing Bowls, Hanging Baskets, Wall Pockets, Sand Jars, Umbrella Stands, Fern Dishes, Baskets, Ice Trays.
Claims use since Aug. 16, 1921.

268,447. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WELLINGTON & WARD LIMITED, Elstree, England. Filed Jan. 6, 1930. Serial No. 294,451.

WELLINGTON

For Photographic Sensitized Plates and Sensitized Films and Sensitized Photographic Papers.
Claims use since 1899.

268,448. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DAVID HELLER, doing business as Heller & Long, New York, N. Y. Filed Jan. 8, 1930. Ser. No. 294,529.

Bedfordshire

For Handkerchiefs.
Claims use since on or about Apr. 1, 1922.

TRADE-MARK REGISTRATIONS RENEWED

34,322. SYRUP AND SUGAR. Registered March 13, 1900. ABRAM LYLE & SONS, LIMITED. Renewed March 13, 1930, to Tate & Lyle, Limited, London, England, a Corporation of Great Britain, assignee by mesne assignments.

34,591. PLUG CHEWING TOBACCO. Registered May 1, 1900. SAMUEL F. HASEROT. Renewed May 1, 1930. to The Haserot Company, Cleveland, Ohio, a Corporation of Ohio, successor.

76,081. RUBBER VEHICLE TIRES. Registered December 14, 1909. SHAWMUT TIRE CO., Boston, Mass. Renewed December 14, 1929, to Hood Rubber Company, Inc., Wilmington, Del., and Watertown, Mass., a Corporation of Delaware, assignee by mesne assignments.

76,198. LARD. Registered December 28, 1909. WILLIAM MOLAND'S SONS. Renewed December 28, 1929, to Wm. Moland's Sons, Inc., Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

76,217. MATTRESSES. Registered December 28, 1909. SEALY MATTRESS COMPANY, Dallas, Tex. Renewed December 28, 1929, to The Sealy Corporation, Houston, Tex., a Corporation of Illinois, successor.

76,392. A REMEDY FOR CERTAIN DISEASES. Registered January 11, 1910. LEINSTER DUFFY. Renewed January 11, 1930, to The Savodine Co., New Bern, N. C., successor.

76,415. NEAT'S-FOOT-OIL SOAP FOR TANNERS' USE. Registered January 11, 1910. F. S. WALTON COMPANY, Camden, N. J., and Philadelphia, Pa. Renewed January 11, 1930, to F. S. Walton Company, Philadelphia, Pa., a Corporation of Pennsylvania.

76,514. ELECTRIC MINING MACHINES. Registered January 25, 1910. THE HIRST-BUTLER ELECTRICAL MACHINE CO., Reynoldsville, Pa. Renewed January 25, 1930, to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey, assignee.

76,568. CERTAIN FANCY GOODS AND NOTIONS. Registered February 1, 1910. JOHN E. HURST & COMPANY. Renewed February 1, 1930, to John E. Hurst & Company, Inc., Baltimore, Md., a Corporation of Maryland, successor.

76,583. DESICCATED MILK OR MILK POWDER. Registered February 1, 1910. THE DRY MILK COMPANY, Renewed February 1, 1930, to The Dry Milk Company, Inc., New York, N. Y., a Corporation of Delaware, assignee.

76,584. DESICCATED MILK OR MILK POWDER. Registered February 1, 1910. THE DRY MILK COMPANY, Renewed February 1, 1930, to The Dry Milk Company, Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

76,592. COAL AND COKE. Registered February 1, 1910. INDEPENDENT COAL & COKE CO., Salt Lake City, Utah, a Corporation of Wyoming. Renewed February 1, 1930.

76,611. SAFETY POWDER. Registered February 1, 1910. BURTON POWDER COMPANY, Pittsburgh, Pa. Renewed February 1, 1930, to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware, assignee by mesne assignments.

76,654. PNEUMATIC TANKS AND PARTS OF SAME. Registered February 8, 1910. LEADER IRON WORKS. Renewed February 8, 1930, to Leader Iron Works, Decatur, Ill., a Corporation of Delaware, assignee.

76,670. CERTAIN CLOTHING. Registered February 8, 1910. JOHN E. HURST & COMPANY. Renewed February 8, 1930, to John E. Hurst & Company, Inc., Baltimore, Md., a Corporation of Maryland, successor.

76,766. CANNED SARDINES. Registered February 15, 1910. NEPTUNE PACKING COMPANY, Boothbay Harbor, Me., and Boston, Mass. Renewed February 15, 1930, to Neptune Packing Company, Boston, Mass., a Corporation of Maine.

76,767. CANNED SARDINES. Registered February 15, 1910. NEPTUNE PACKING COMPANY, Boothbay Harbor, Me., and Boston, Mass. Renewed February 15, 1930, to Neptune Packing Company, Boston, Mass., a Corporation of Maine.

76,768. PAINTS, VARNISHES, FILLERS, COLORS, ENAMEL PAINTS, STAINS, AND JAPANS. Registered February 15, 1910. EUGENE E. NICE, Philadelphia, Pa. Renewed February 15, 1930.

76,828. PAINTS, ENAMELS, BRONZE POWDERS, AND BRONZING LIQUIDS. Registered February 15, 1910. BAER BROS., New York, N. Y. Renewed February 15, 1930.

76,917. COAL AND COKE. Registered February 22, 1910. INDEPENDENT COAL & COKE CO., Salt Lake City, Utah, a Corporation of Wyoming. Renewed February 22, 1930.

76,918. COAL AND COKE. Registered February 22, 1910. INDEPENDENT COAL & COKE CO., Salt Lake City, Utah, a Corporation of Wyoming. Renewed February 22, 1930.

77,042. LAUNDRY SOAPS. Registered March 1, 1910. LA FRANCE MANUFACTURING COMPANY, Philadelphia, Pa. Renewed March 1, 1930, to La France Manufacturing Company, New York, N. Y., a Corporation of Pennsylvania.

77,084. MALTED MILK. Registered March 8, 1910. BORDEN'S CONDENSED MILK COMPANY, Jersey City, N. J., and New York, N. Y. Renewed March 8, 1930, to Borden's Milk Products Company, Inc., New York, N. Y., a Corporation of Delaware, assignee.

77,203. CERTAIN TOILET PREPARATIONS AND FUMIGATING WAFERS. Registered March 22, 1910. COLGATE & CO., Jersey City, N. J., and New York, N. Y. Renewed March 22, 1930, to Colgate-Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware, assignee.

77,308. METALLIC BELT FASTENERS. Registered March 29, 1910. DAVID T. GRAHAM, St. Louis, Mo. Renewed March 29, 1930, to David T. Graham, Los Angeles, Calif.

77,402. DRIED RAISINS. Registered April 5, 1910. THE J. K. ARMSBY COMPANY, Chicago, Ill., and San Francisco, Calif. Renewed April 5, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,403. DRIED RAISINS. Registered April 5, 1910. THE J. K. ARMSBY COMPANY, Chicago, Ill., and San Francisco, Calif. Renewed April 5, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,469. BOOK PAPER. Registered April 12, 1910. J. W. BUTLER PAPER COMPANY. Renewed April 12, 1930, to Butler Paper Corporations, Chicago, Ill., a Corporation of Illinois, assignee.

77,477. CAR MOVERS AND PUSHERS. Registered April 12, 1910. WM. MCLEISH. Renewed April 12, 1930, to Appleton Car Mover Company, Inc., Appleton, Wis., a Corporation of Wisconsin, assignee.

77,525. CERTAIN HOLLOW WARE. Registered April 19, 1910. ERNEST STEVENS, LIMITED, Cradley Heath, England, an Organized Company of Great Britain. Renewed April 19, 1930.

77,543. GUMMED PAPER. Registered April 19, 1910. IDEAL COATED PAPER CO., Tenafly, N. J., and Brookfield, Mass. Renewed April 19, 1930, to McLaurin-Jones Co., Brookfield, Mass., a Corporation of Massachusetts, assignee.

77,563. ORANGES AND GRAPEFRUIT. Registered April 19, 1910. PASADENA ORANGE GROWERS ASSOCIATION, Pasadena, Calif., a Corporation of California. Renewed April 19, 1930.

77,564. ORANGES AND GRAPEFRUIT. Registered April 19, 1910. PASADENA ORANGE GROWERS ASSOCIATION, Pasadena, Calif., a Corporation of California. Renewed April 19, 1930.

77,945. TOOLS FOR USE IN CLEANING PIPES AND CYLINDERS. Registered May 17, 1910. NATIONAL WATER MAIN CLEANING CO., Augusta, Me., and New York, N. Y. Renewed May 17, 1930, to National Water Main Cleaning Co., New York, N. Y., a Corporation of Maine.

77,961. PIANOS. Registered May 17, 1910. SCHILLER PIANO COMPANY, Oregon, Ill., a Corporation of Illinois. Renewed May 17, 1930.

78,080. MEDICINES. Registered May 31, 1910. FOSTER-MCCLELLAN COMPANY, Buffalo, N. Y., a Corporation of New York. Renewed May 31, 1930.

78,091. WATCH, CLOCK, AND CHRONOMETER OILS. Registered May 31, 1910. HAMMEL, RIGLANDER & CO., New York, N. Y., a Corporation of New York. Renewed May 31, 1930.

78,157. WASHERS. Registered May 31, 1910. NELSON E. BOOTH, Brooklyn, N. Y. Renewed May 31, 1930.

78,215. ENGINE STOPS AND PUMP GOVERNORS. Registered May 31, 1910. THE STRONG, CARLISLE & HAMMOND CO., Cleveland, Ohio, a Corporation of Ohio. Renewed May 31, 1930.

78,226. FRESH OYSTERS. Registered May 31, 1910. AUBREY G. BAILEY, Norfolk, Va. Renewed May 31, 1930.

78,228. SOAPS FOR TOILET USE AND SHAVING SOAP. Registered May 31, 1910. COLGATE & COMPANY, Jersey City, N. J., and New York, N. Y. Renewed May 31, 1930, to Colgate-Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware, assignee.

78,504. SIDE LEATHERS. Registered June 21, 1910. S. B. FOOT & CO., Red Wing, Minn., a Corporation of Minnesota. Renewed June 21, 1930.

78,661. CANDLES. Registered June 28, 1910. SYRACUSE CANDLE CO., Syracuse, N. Y., a Corporation of New York. Renewed June 28, 1930.

78,683. STEEL AND FORGINGS. Registered July 5, 1910. CAMBRIA STEEL COMPANY, Johnstown, Pa. Renewed July 5, 1930, to Bethlehem Steel Products Company, Bethlehem, Pa., a Corporation of Pennsylvania, assignee.

78,684. STEEL AND FORGINGS. Registered July 5, 1910. CAMBRIA STEEL COMPANY, Johnstown, Pa. Renewed July 5, 1930, to Bethlehem Steel Products Company, Bethlehem, Pa., a Corporation of Pennsylvania, assignee.

78,885. STEEL AND FORGINGS. Registered July 5, 1910. CAMBRIA STEEL COMPANY, Johnstown, Pa. Renewed July 5, 1930, to Bethlehem Steel Products Company, Bethlehem, Pa., a Corporation of Pennsylvania, assignee.

78,886. STEEL AND FORGINGS. Registered July 5, 1910. CAMBRIA STEEL COMPANY, Johnstown, Pa. Renewed July 5, 1930, to Bethlehem Steel Products Company, Bethlehem, Pa., a Corporation of Pennsylvania, assignee.

78,890. FERTILIZERS. Registered July 5, 1910. COMMERCIAL FERTILIZER CO., Montgomery, Ala. Renewed July 5, 1930, to International Agricultural Corporation, New York, N. Y., a Corporation of New York, assignee by mesne assignments.

78,706. COFFEES AND TEAS. Registered July 5, 1910. THE GASSER COFFEE COMPANY. Renewed July 5, 1930, to The Karavan Coffee Company, Toledo, Ohio, a Corporation of Ohio, by change of name.

78,905. STOVES, RANGES, AND FURNACES. Registered July 19, 1910. RATHBONE, SARD & Co., Albany, N. Y.; Detroit, Mich.; Chicago and Aurora, Ill. Renewed July 19, 1930, to Standard Gas Equipment Corporation, Baltimore, Md., a Corporation of Maryland, assignee.

78,906. STOVES, RANGES, AND FURNACES. Registered July 19, 1910. RATHBONE, SARD & Co., Albany, N. Y.; Detroit, Mich.; Chicago and Aurora, Ill. Renewed July 19, 1930, to Standard Gas Equipment Corporation, Baltimore, Md., a Corporation of Maryland, assignee.

78,910. CERTAIN HARDWARE. Registered July 19, 1910. RUSSELL & ERWIN MANUFACTURING COMPANY. Renewed July 19, 1930, to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut, assignee.

78,923. COFFEE. Registered July 19, 1910. THE WOOLSON SPICE COMPANY, Toledo, Ohio, a Corporation of Ohio. Renewed July 19, 1930.

78,924. COFFEE. Registered July 19, 1910 THE WOOLSON SPICE COMPANY, Toledo, Ohio, a Corporation of Ohio. Renewed July 19, 1930.

78,926. LIME AND CEMENT. Registered July 26, 1910. ASH GROVE LIME & PORTLAND CEMENT CO., Kansas City, Mo., a Corporation of Maine. Renewed July 26, 1930.

78,945. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,946. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,947. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould, South Bellingram, Wash., a Corporation of Illinois.

78,948. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois

78,949. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,950. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,951. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,952. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,953. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,954. CANNED SALMON. Registered July 26, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed July 26, 1930, to Deming & Gould Co., South Bellingham, Wash., a Corporation of Illinois.

78,955. SAWS. Registered July 26, 1910. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed July 26, 1930.

78,988. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,989. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,990. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,991. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,992. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,993. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,994. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,995. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,996. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,997. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,998. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

78,999. CANNED SALMON. Registered July 26, 1910. PACIFIC AMERICAN FISHERIES, Chicago, Ill. Renewed July 26, 1930, to Pacific American Fisheries, South Bellingham, Wash., a Corporation of Maine.

79,007. CERTAIN CUTLERY AND MACHINE TOOLS. Registered July 26, 1910. ROBERTS, SANFORD & TAYLOR COMPANY, Sherman, Tex., a Corporation of Texas. Renewed July 26, 1930.

79,018. TOOL HANDLES. Registered July 26, 1910. TURNER, DAY & WOOLWORTH HANDLE COMPANY, Louisville, Ky., a Corporation of Kentucky. Renewed July 26, 1930.

CARNEGIE LIBRARY OF ATLANTA

LABELS

REGISTERED MARCH 11, 1930

37,194.—*Title:* KING PARROT. For Canned Tomatoes. THE ANTHONY WHOLESALE GROCERY COMPANY, Anthony, Kans. Published November 1, 1929.

37,195.—*Title:* WILSHIRE-VALLEY EGGS. For Eggs. W. M. BAKER, Santa Monica, Calif. Published January 14, 1930.

37,196.—*Title:* BISCHOFF'S PREPARATION. For Flavoring Syrups. F. BISCHOFF, INC., Brooklyn, N. Y. Published December 18, 1929.

37,197.—*Title:* LILAC TIME. For Candy. BISHOP & COMPANY, Los Angeles, Calif. Published January 6, 1930.

37,198.—*Title:* BOBRICK'S CLOUDY AMMONIA. For Ammonia. BOBRICK CHEMICAL CORP., Los Angeles, Calif. Published April 1, 1929.

37,199.—*Title:* RANCH 2-U EGGS. For Eggs. F. L. BOND, Ocean Park, Calif. Published January 14, 1930.

37,200.—*Title:* ARROWHEAD NUT MARGARINE OLEOMARGARINE. For Oleomargarine. BRIDGEMAN-RUSSELL COMPANY, INC., Buffalo, N. Y. Published July 8, 1929.

37,201.—*Title:* F4 BANNER BATTERY. For Flash-Light Batteries. BURGESS BATTERY COMPANY, Madison, Wis. Published January 11, 1930.

37,202.—*Title:* SUNBURNT. For Firecrackers. JOAO M. DA ROCHA, doing business as J. M. Da Rocha Co., Firecracker Division, San Francisco, Calif. Published February 1, 1930.

37,203.—*Title:* RA-BRAND EGYPTIAN HENNA-SHAMPOO. For Hair-Shampoo Preparation. EGYPTIAN PRODUCTS CO., Newark, N. J. Published November 8, 1929.

37,204.—*Title:* RA-BRAND EGYPTIAN HENNA. For Hair-Coloring Preparation. EGYPTIAN PRODUCTS CO., Newark, N. J. Published November 8, 1929.

37,205.—*Title:* ARTEROCYN. For Medicinal Preparation. FLINT, EATON & COMPANY, Decatur, Ill. Published January 20, 1930.

37,206.—*Title:* HOME BRAND. For Maple Syrup. GRIGGS, COOPER & CO., St. Paul, Minn. Published January 11, 1930.

37,207.—*Title:* HOME BRAND. For Salmon. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Published January 11, 1930.

37,208.—*Title:* HOME BRAND. For Lobsters. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Published January 11, 1930.

37,209.—*Title:* HOME BRAND. For Olive Oil. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Published January 11, 1930.

37,210.—*Title:* HOME BRAND. For Pork and Beans. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Published January 11, 1930.

37,211.—*Title:* HOME BRAND. For Asparagus. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Published January 11, 1930.

37,212.—*Title:* HOME BRAND. For Soda. GRIGGS, COOPER & COMPANY, St. Paul, Minn. Published January 11, 1930.

37,213.—*Title:* AUNT EMMA'S HOME MADE EGG NOODLES. For Egg Noodles. MRS. EMMA HANSON, Milwaukee, Wis. Published January 2, 1930.

37,214.—*Title:* M. L. & CO. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 1, 1929.

37,215.—*Title:* S. J. G. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published October 31, 1929.

37,216.—*Title:* PRINCESS. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 19, 1929.

37,217.—*Title:* L AND D. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 19, 1929.

37,218.—*Title:* ACE-HI SHOES. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 20, 1929.

37,219.—*Title:* MODERN SPORT GIRL. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 25, 1929.

37,220.—*Title:* THE PECK SHOE. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 7, 1929.

37,221.—*Title:* M. W. S. CO. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 1, 1929.

37,222.—*Title:* BETT SHOE CO. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 11, 1929.

37,223.—*Title:* HEROLD BERTSCH SHOE CO. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 27, 1929.

37,224.—*Title:* BETT LEE. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 13, 1929.

37,225.—*Title:* MODERN-MISS. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published October 31, 1929.

37,226.—*Title:* HEALTH-O-PEDIC. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published October 31, 1929.

37,227.—*Title:* WHOOPEE. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published October 31, 1929.

37,228.—*Title:* THEY SEE THE BOX FIRST. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published December 3, 1929.

37,229.—*Title:* PUTNEY PRODUCTS. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 29, 1929.

37,230.—*Title:* ROSCO. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published November 9, 1929.

37,231.—*Title:* HAPPY-FEET COMFORTS. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published October 8, 1929.

37,232.—*Title:* H B L. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published October 8, 1929.

37,233.—*Title:* NASSCO. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published December 13, 1929.

37,234.—*Title:* GOLDSMITH'S. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published December 5, 1929.

37,235.—*Title:* THE BOOTERY. For Boxes. HOAGUE-SPRAGUE CORP., Lynn, Mass. Published December 28, 1929.

37,236.—*Title:* HARRIETTE'S BLENDED-FRUIT MARMALADE. For Marmalade. HARRIETTE M. HUDSON, Newton, Mass. Published January 11, 1930.

37,237.—*Title:* HUGGINS BROS. CERTIFIED EGGS. For Eggs. HUGGINS BROS., Van Nuys, Calif. Published January 14, 1930.

37,238.—*Title:* JERSEY ROLLED WHOLE WHEAT. For Rolled Whole Wheat. JERSEY CEREAL COMPANY, Irwin, Pa. Published February 7, 1930.

37,239.—*Title:* SODIUM TARTRATE WITH CITRATE OF MAGNESIA. For Effervescing Salts. NEW ERA CHEMICAL CO., Providence, R. I. Published September 16, 1929.

37,240.—*Title:* OBALEX. For Tablets for Treating Obesity. OBEX CORP., New York, N. Y. Published December 10, 1929.

37,241.—*Title:* STANTON'S VITALITY FOOD. For Prepared Food. STANTON NATURAL FOOD CO., Chicago, Ill. Published September 1, 1929.

37,242.—*Title:* STANTON'S HEALTH WHEAT. For Cereal Food. STANTON NATURAL FOOD CO., Chicago, Ill. Published January 1, 1928.

37,243.—*Title:* SWEEPING IMPERFECTIONS AWAY. For Cleansing Cream. RENNE THORNTON, New York, N. Y. Published January 10, 1929.

37,244.—*Title:* DELIGHT. For Malt Syrup. VAL BLATZ BREWING CO., Milwaukee, Wis. Published January 29, 1930.

37,245.—*Title:* OLD FASHIONED. For Malt Syrup. VAL BLATZ BREWING CO., Milwaukee, Wis. Published January 29, 1930.

37,246.—*Title:* DUTCH MAID. For Sweet Curd Creamed Cheese. OSCAR C. WALLACE, Vincennes, Ind. Published August 25, 1928.

37,247.—*Title:* GULF BREEZE GRAPEFRUIT JUICE. For Grapefruit Juice. WEST FLORIDA PRESERVING CO., INC., Bradenton, Fla. Published February 5, 1930.

37,248.—*Title:* FAN-FLARE MULTIFOLD CRAVAT. For Neckties. WILSON BROTHERS, Chicago, Ill. Published January 18, 1930.

PRINTS

REGISTERED MARCH 11, 1930

12,424.—*Title:* VENUS COPYING PENCILS. For Pencils. AMERICAN LEAD PENCIL CO., Hoboken, N. J. Published January 11, 1930.

12,425.—*Title:* VELVET PENCIL. For Pencils. AMERICAN LEAD PENCIL CO., Hoboken, N. J. Published January 11, 1930.

12,426.—*Title:* WE START THE NEW YEAR WITH A NEW STORE, ETC. For Jewelry and Silverware. BLACK, STARR & FROST-GORHAM, INC., New York, N. Y. Published February 1, 1930.

12,427.—*Title:* LOOK AROUND YOUR HOME, YOUR GUESTS DO. For Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,428.—*Title:* KYANIZE FLOOR ENAMEL. For Floor Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,429.—*Title:* KYANIZE LUSTAQUIK FINISH. For Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,430.—*Title:* KYANIZE CELOID FINISH. For Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,431.—*Title:* KYANIZE FLOOR FINISH. For Floor Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,432.—*Title:* LOOK AROUND YOUR HOME, YOUR GUESTS DO. For Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,433.—*Title:* KYANIZE CELOID FINISH. For Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,434.—*Title:* KYANIZE LUSTAQUIK FINISH. For Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,435.—*Title:* KYANIZE FLOOR FINISH. For Floor Varnish and Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,436.—*Title:* KYANIZE FLOOR ENAMEL. For Floor Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,437.—*Title:* LOOK AROUND YOUR HOME, YOUR GUESTS DO. For Celoid Finish. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,438.—*Title:* LOOK AROUND YOUR HOME, YOUR GUESTS DO. For Floor Finish. BOSTON VARNISH CO., Boston, Mass. Published January 21, 1930.

12,439.—*Title:* LOOK AROUND YOUR HOME, YOUR GUESTS DO. For Lustaquik Finish. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,440.—*Title:* LOOK AROUND YOUR HOME, YOUR GUESTS DO. For Floor Enamel. BOSTON VARNISH CO., Boston, Mass. Published January 2, 1930.

12,441.—*Title:* EL PRODUCTO, MILD, FOR REAL ENJOYMENT. For Cigars. G. H. P. CIGAR CO. INC., Philadelphia, Pa. Published January 6, 1930.

12,442.—*Title:* EL PRODUCTO FOR REAL ENJOYMENT. For Cigars. G. H. P. CIGAR CO. INC., Philadelphia, Pa. Published January 6, 1930.

12,443.—*Title:* EL PRODUCTO FOR REAL ENJOYMENT. For Cigars. G. H. P. CIGAR CO. INC., Philadelphia, Pa. Published January 6, 1930.

12,444.—*Title:* JOHNSON'S SEA-CLIFF OYSTERS. For Oysters. A. S. JOHNSON FISH CO., Duluth, Minn. Published December 15, 1928.

12,445.—*Title:* WILLIAMS POWERFUL COAL. For Coal. NASHVILLE COAL CO., Nashville, Tenn. Published January 8, 1930.

12,446.—*Title:* WHEREVER YOU GO—YOU FIND BLUE RIBBON MALT. For Malt Extract. PREMIER MALT PRODUCTS CO., Peoria, Ill. Published January 4, 1930.

12,447.—*Title:* STERLENE. For Petroleum Products. TEXAS PETROLEUM CO., San Antonio, Tex. Published October 30, 1929.

12,448.—*Title:* R E V. For High-Velocity Motor Fuel. TEXAS PETROLEUM CO., San Antonio, Tex. Published October 30, 1929.

12,449.—*Title:* STER-O-CLEAN. For Cleaner's Naptha. TEXAS PETROLEUM CO., San Antonio, Tex. Published February 3, 1930.

REISSUES

MARCH 11, 1930

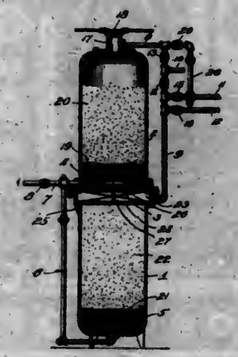
17,620. CAP. DANIEL J. CREMEN, Blackwood, N. J. Filed Dec. 13, 1929. Serial No. 413,909. Original No. 1,682,004, dated Aug. 28, 1928, Serial No. 166,884, filed Feb. 9, 1927. 4 Claims. (Cl. 2—200.)



1. A cap provided with an upstanding continuously extending substantially circular brim comprising a relatively flexible fabric facing and a relatively stiff fibrous lining intimately united by an adhesive, and a ventilating crown of loosely woven material, one of the peripheral ends of said lining terminating short of the adjacent peripheral end of the flexible fabric, the unlined portion of the said flexible material being loosely disposed within the brim and constituting the sole means to which the crown is secured for connecting the latter to the brim.

17,621. COMBINED FILTER AND UPFLOW WATER SOFTENER. WILLIAM J. KENNEY, Chicago, Ill. Filed Nov. 26, 1928. Serial No. 322,043. Original No. 1,685,818, dated Oct. 2, 1928, Serial No. 193,100, filed May 21, 1927. 7 Claims. (Cl. 210—24.)

1. In an apparatus of the character described, a tank divided into an upper chamber and an independent lower chamber, a filtering bed in and only partially filling the upper chamber, a bed of zeolitic material arranged in and extending to within a short distance from the top of the lower chamber, a screen above the zeolitic material, a conduit connecting the bottoms of the chamber together,



a second conduit connecting the upper ends of the chambers together; a service pipe, a drain pipe, and a water supply pipe connected to said conduit; valves in said service and said drain pipe; and valves in said second conduit on opposite sides of said supply pipe.

DESIGNS

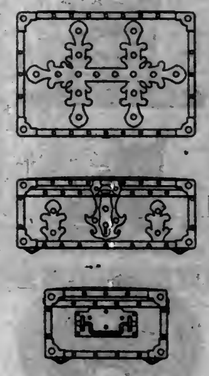
MARCH 11, 1930

80,666. LIGHTING FIXTURE. HARRY AGLOW, Philadelphia, Pa., assignor to Gill Glass and Fixture Company, a Corporation of Delaware. Filed Oct. 4, 1929. Serial No. 32,945. Term of patent 3½ years.



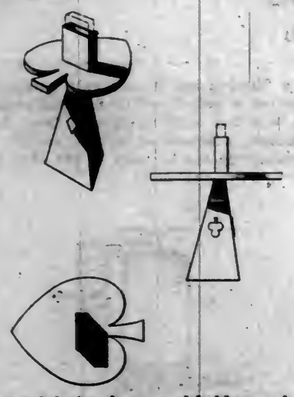
The ornamental design for a lighting fixture substantially as shown and described.

80,667. BOX OR SIMILAR ARTICLE. JOSEPH E. BERGER, Bloomfield, N. J., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 1, 1928. Serial No. 29,078. Term of patent 7 years.



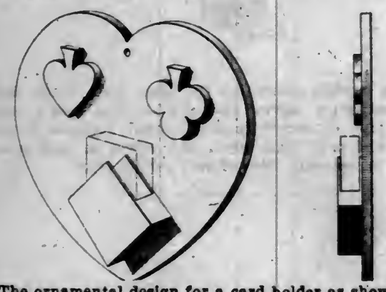
The ornamental design for a box or similar article as shown.

80,668. CARD HOLDER. ALEX A. BEYER, Torrington, Conn. Filed June 12, 1929. Serial No. 31,652. Term of patent 14 years.



The ornamental design for a card holder as shown.

80,669. CARD HOLDER. ALEX A. BEYER, Torrington, Conn. Filed June 12, 1929. Serial No. 31,653. Term of patent 14 years.



The ornamental design for a card holder as shown.

80,670. DESK STAND FOR A HAND TELEPHONE. NELSON BLOUNT, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1930. Serial No. 34,292. Term of patent 14 years.



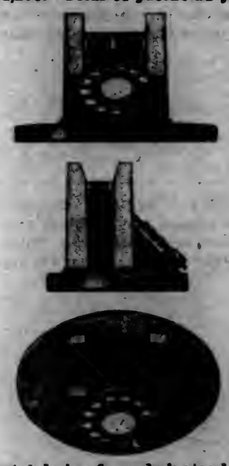
The ornamental design for a desk stand for a hand telephone, as shown.

80,671. DESK STAND FOR A HAND TELEPHONE. NELSON BLOUNT, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1930. Serial No. 34,294. Term of patent 14 years.



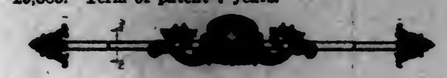
The ornamental design for a desk stand for a hand telephone, as shown.

80,672. DESK STAND FOR A HAND TELEPHONE. NELSON BLOUNT, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 25, 1930. Serial No. 34,296. Term of patent 14 years.



The ornamental design for a desk stand for a hand telephone, as shown.

80,673. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYD, Chicago, Ill. Filed Feb. 2, 1929. Serial No. 29,885. Term of patent 7 years.



The ornamental design for a curtain and portière rod, as shown.

80,674. CURTAIN ROD OR SIMILAR ARTICLE. JAMES H. BOYD, Chicago, Ill. Filed Dec. 28, 1929. Serial No. 33,969. Term of patent 7 years.



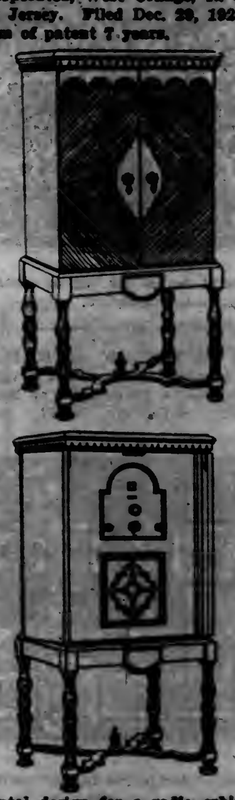
The ornamental design for a curtain rod or similar article, as shown.

80,675. DAVENPORT OR LIKE ARTICLE. WILLIAM FREDERICK CHRISTIANSEN, Chicago, Ill., assignor to The Zangerle and Petersen Company, a Corporation of Illinois. Filed Dec. 16, 1929. Serial No. 33,802. Term of patent 3½ years.



The ornamental design for a davenport or like article, as shown and described.

80,676. RADIOCABINET OR SIMILAR ARTICLE. NOEL S. DUNBAR, New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 20, 1928. Serial No. 29,453. Term of patent 7 years.



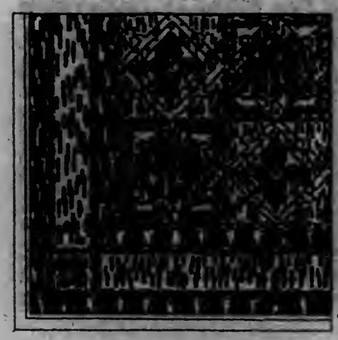
The ornamental design for a radio cabinet or similar article, as shown.

80,677. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUBER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,771. Term of patent 7 years.



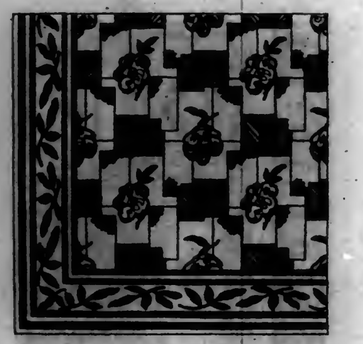
The ornamental design for rug or similar article substantially as shown and described.

80,678. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUBER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,772. Term of patent 7 years.



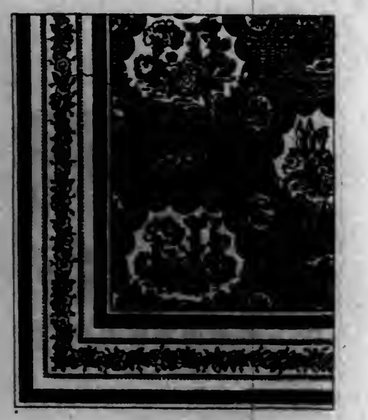
The ornamental design for rug or similar article substantially as shown and described.

80,679. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,773. Term of patent 7 years.



The ornamental design for rug or similar article substantially as shown and described.

80,680. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,774. Term of patent 7 years.



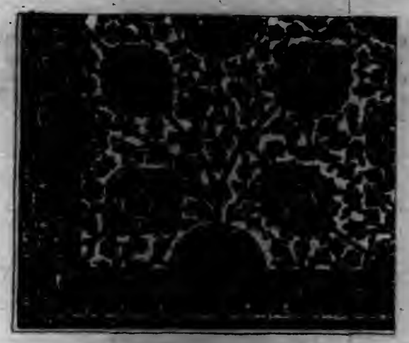
The ornamental design for rug or similar article substantially as shown and described.

80,681. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,775. Term of patent 7 years.



The ornamental design for rug or similar article substantially as shown and described.

80,682. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,776. Term of patent 7 years.



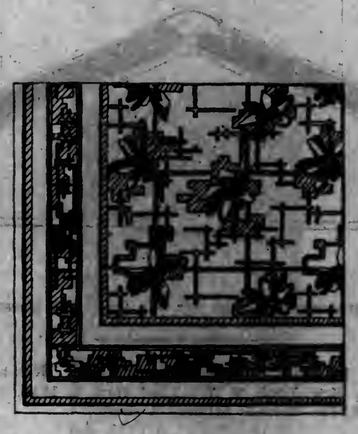
The ornamental design for rug or similar article substantially as shown and described.

80,683. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,777. Term of patent 7 years.



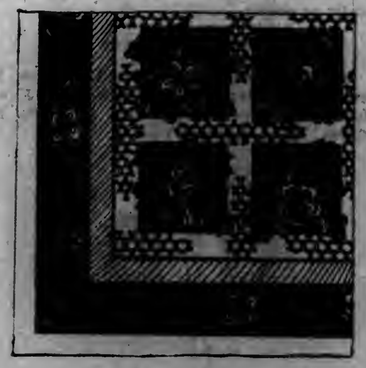
The ornamental design for rug or similar article substantially as shown and described.

80,684. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,778. Term of patent 7 years.



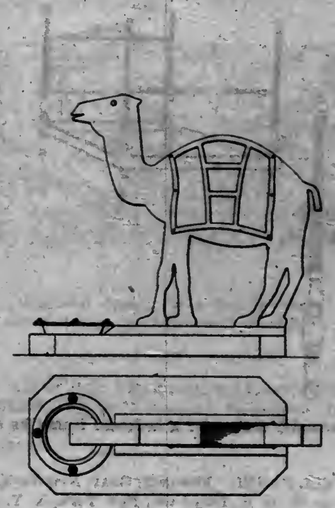
The ornamental design for rug or similar article substantially as shown and described.

80,685. RUG OR SIMILAR ARTICLE. GUSTAVE M. FAUSER, Ardsley-on-Hudson, N. Y., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Dec. 12, 1929. Serial No. 33,779. Term of patent 7 years.



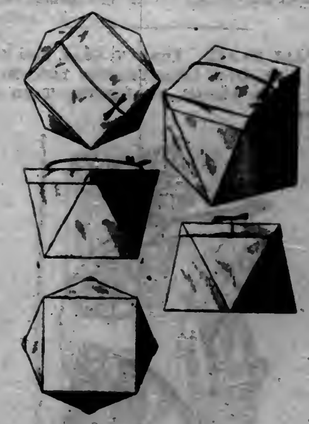
The ornamental design for rug or similar article substantially as shown and described.

80,686. COMBINED CIGARETTE HOLDER AND ASH RECEIVER. LOUIS E. FORD, Borger, Tex. Filed July 17, 1929. Serial No. 32,094. Term of patent 14 years.



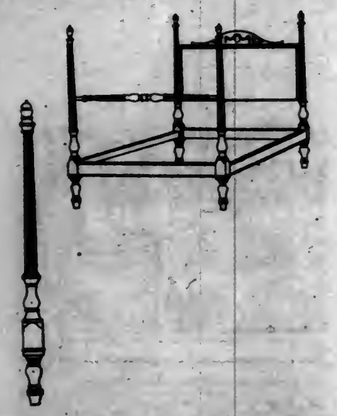
The ornamental design for a combined cigarette holder and ash receiver, as shown.

80,687. BOX. ALFRED FRIED, Chicago, Ill. Filed Oct. 23, 1929. Serial No. 33,142. Term of patent 3½ years.



The ornamental design for a box as shown.

80,688. BEDSTEAD FRAME. WILLIAM A. FRENCH, Minneapolis, Minn., assignor to Wm. A. French Furniture Co., Minneapolis, Minn. Filed Apr. 8, 1929. Serial No. 30,737. Term of patent 3½ years.



The ornamental design for a bedstead frame, as shown.

80,689. WALL PANEL. EDWIN T. GRAY, New York, N. Y., assignor to W. H. S. Lloyd Co., New York, N. Y. Filed Apr. 27, 1929. Serial No. 31,031. Term of patent 3½ years.



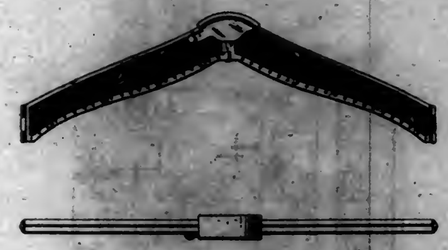
The ornamental design for a wall panel, as shown.

80,690. WALL PANEL. EDWIN T. GRAY, New York, N. Y., assignor to W. H. S. Lloyd Co., New York, N. Y. Filed Apr. 27, 1929. Serial No. 31,033. Term of patent 3½ years.



The ornamental design for a wall panel, as shown.

80,691. BAG FRAME. WILLIAM C. HEMING, Newark, N. J., assignor to J. H. Morgott Co., Newark, N. J., a Corporation of Delaware. Filed Oct. 28, 1929. Serial No. 33,189. Term of patent 3½ years.



The ornamental design for bag frame, as shown.

80,692. BUTTON OR SIMILAR ARTICLE. WILLIAM W. HOBB, New York, N. Y. Filed Nov. 2, 1929. Serial No. 33,272. Term of patent 3½ years.



The ornamental design for a button or similar article substantially as shown.

80,693. BUCKLE. WILLIAM L. MYERS, Newark, N. J., assignor to L. A. Myers Jr., Inc., Newark, N. J., a Corporation of New Jersey. Filed Sept. 27, 1929. Serial No. 32,886. Term of patent 7 years.



The ornamental design for a buckle, as shown.

80,694. TEXTILE FABRIC OR SIMILAR ARTICLE. BENJAMIN S. NASH, Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed Sept. 23, 1929. Serial No. 32,840. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article substantially as shown and described.

80,695. BOTTLE. JOHN B. O'HARA, Dallas, Tex., assignor to Dr. Pepper Company, Dallas, Tex. Filed July 15, 1929. Serial No. 32,059. Term of patent 14 years.



The ornamental design for a bottle as shown.

80,696. TEXTILE FABRIC OR SIMILAR ARTICLE. ETHEL M. PARSONS, New York, N. Y., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed Nov. 21, 1929. Serial No. 33,518. Term of patent 7 years.



The ornamental design for a textile fabric or similar article substantially as shown and described.

80,697. GRIP FOR GEAR-SHIFT LEVERS FOR AUTOMOBILES. ALLEN L. SHIRLEY, Panhandle, Tex. Filed May 1, 1929. Serial No. 31,065. Term of patent 3½ years.



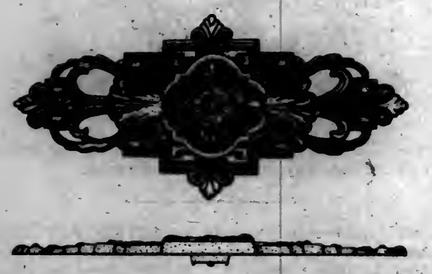
The ornamental design for a grip for gear-shift levers for automobiles, as shown.

80,698. COASTER. THEODORE H. SLOAN, Charleroi, Pa. Filed Jan. 11, 1930. Serial No. 34,106. Term of patent 7 years.



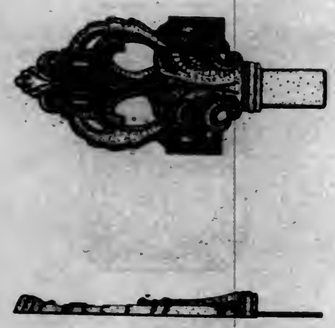
The ornamental design for a coaster, as shown.

80,699. CENTER ORNAMENT FOR DRAPERY RODS OR THE LIKE. WALTER E. SMITH, Providence, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I., a Corporation of Rhode Island. Filed Jan. 10, 1930. Serial No. 34,086. Term of patent 7 years.



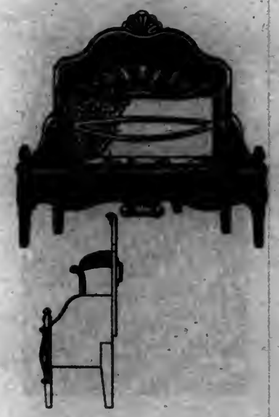
The ornamental design for a center ornament for drapery rods or the like, as shown.

80,700. END ORNAMENT FOR DRAPERY RODS OR THE LIKE. WALTER E. SMITH, Providence, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I., a Corporation of Rhode Island. Filed Jan. 10, 1930. Serial No. 34,087. Term of patent 7 years.



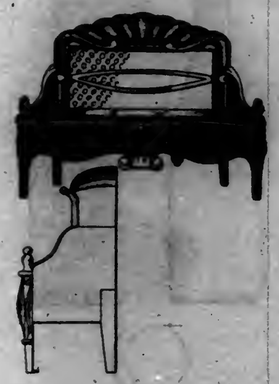
The ornamental design for an end ornament for drapery rods or the like, as shown.

80,701. GAS RADIANT HEATER. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Adams Bros. Mfg. Co., Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 1, 1929. Serial No. 31,069. Term of patent 7 years.



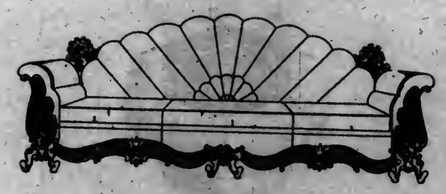
The ornamental design for a gas radiant heater, as shown and described.

80,702. GAS RADIANT HEATER. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Adams Bros. Mfg. Co., Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 1, 1929. Serial No. 31,070. Term of patent 7 years.



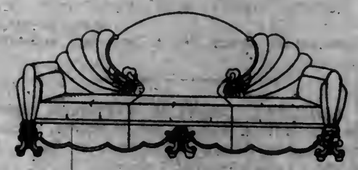
The ornamental design for a gas radiant heater, as shown and described.

80,703. SETTEE OR SIMILAR ARTICLE. CHARLES STOLL, Rockaway Beach, N. Y., assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 24, 1929. Serial No. 32,857. Term of patent 3½ years.



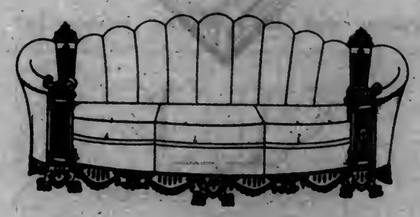
The ornamental design for a settee or similar article, as shown.

80,704. SETTEE OR SIMILAR ARTICLE. CHARLES STOLL, Rockaway Beach, N. Y., assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 24, 1929. Serial No. 32,858. Term of patent 3½ years.



The ornamental design for a settee or similar article, as shown.

80,705. SETTEE OR SIMILAR ARTICLE. CHARLES STOLL, Rockaway Beach, N. Y., assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 24, 1929. Serial No. 32,860. Term of patent 3½ years.



The ornamental design for a settee or similar article, as shown.

80,706. SETTEE OR SIMILAR ARTICLE. CHARLES STOLL, Rockaway Beach, N. Y., assignor to Central Furniture Frame Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 24, 1929. Serial No. 32,861. Term of patent 3½ years.



The ornamental design for a settee or similar article, as shown.

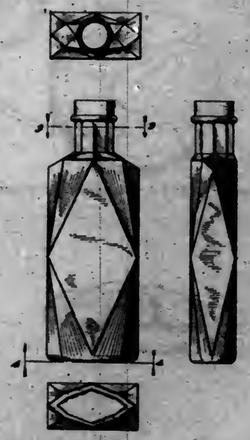
80,707. POCKET LIGHTER. HERBERT S. STRAUSSER, Chicago, Ill., assignor to Otis Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 11, 1929. Serial No. 33,419. Term of patent 7 years.





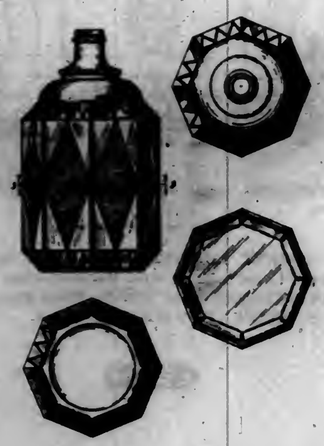
The ornamental design for a pocket lighter, substantially as shown.

80,708. BOTTLE OR SIMILAR CONTAINER. WALTER D. TEAGUE, Forest Hill, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind., a Corporation of Indiana. Filed Dec. 26, 1929. Serial No. 33,924. Term of patent 14 years.



The ornamental design for a bottle or similar container as shown.

80,709. BOTTLE OR SIMILAR CONTAINER. WALTER D. TEAGUE, Forest Hill, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind., a Corporation of Indiana. Filed Dec. 26, 1929. Serial No. 33,925. Term of patent 14 years.



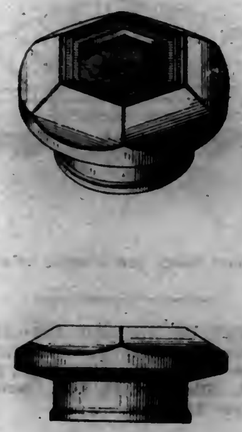
The ornamental design for a bottle or similar container as shown.

80,710. HUB CAP. MILLARD H. TONCRAY, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 16, 1929. Serial No. 33,477. Term of patent 14 years.



The ornamental design for a hub cap, substantially as shown.

80,711. HUB CAP. MILLARD H. TONCRAY, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 16, 1929. Serial No. 33,478. Term of patent 14 years.



The ornamental design for a hub cap, substantially as shown.

80,712. ASH TRAY. FRANK E. WAKEFIELD, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Dec. 20, 1929. Serial No. 33,865. Term of patent 7 years.



The ornamental design for an ash tray, as shown.

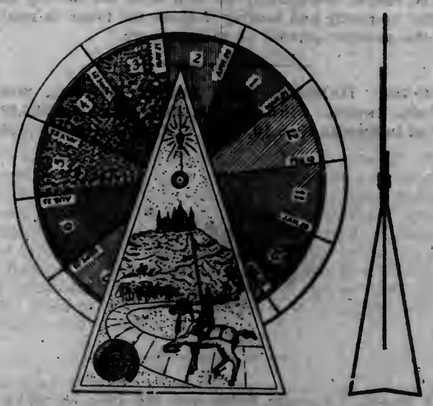
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80,713. ADVERTISING SIGN. JOSEPH A. WESLEY, Chicago, Ill., assignor to Lu-Mi-Nus Signs, Inc., Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1929. Serial No. 33,583. Term of patent 7 years.



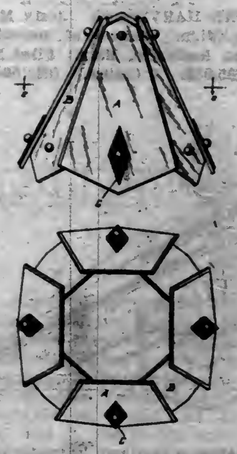
The ornamental design for an advertising sign, as shown.

80,714. GAME DEVICE. OLGA H. WHITE, New York, N. Y. Filed June 18, 1929. Serial No. 31,741. Term of patent 14 years.



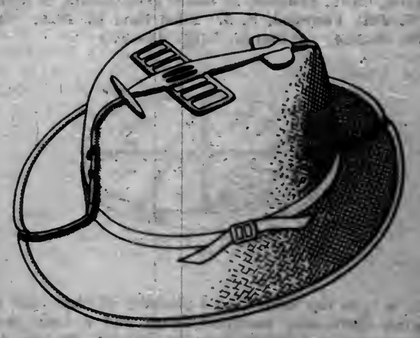
The ornamental design for a game device as shown.

80,715. LAMP SHADE. LOUIS ZWEIG, Brooklyn, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,959. Term of patent 3½ years.



The ornamental design for a lamp shade substantially as shown and described.

80,716. HAT. MORRIS TREIMAN, St. Louis, Mo., assignor to Mexican American Hat Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 10, 1928. Serial No. 28,090. Term of patent 7 years.

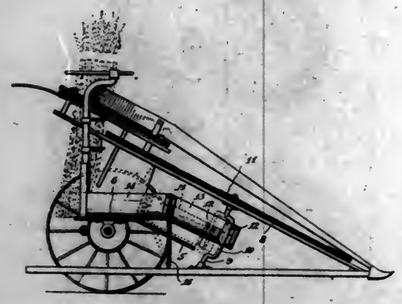


The ornamental design for a hat as shown and described.

PATENTS

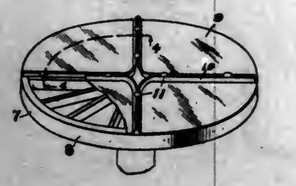
GRANTED MARCH 11, 1930

1,749,749. CORN HARVESTER. JOHN M. BAIER, Olmsted County, Minn., assignor of one-half to William H. H. Greene, Rochester, Minn. Filed Nov. 26, 1927. Serial No. 235,985. 7 Claims. (Cl. 56—466.)



1. In combination with a corn harvester having a frame and elevating-chains, said corn harvester also having a walled binder-deck, a crank-shaft mounted in the frame and means for driving the same through the medium of one of the elevating-chains, a stalk-pushing plate pivotally connected to the crank, and a bundle-pushing plate pivotally connected to the forward end of said stalk-pushing plate and extending backwardly so as to rest upon the binder-deck and also against the side wall thereof.

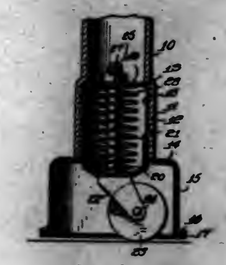
1,749,750. TABLE TOP. HOWARD C. BAILEY, Los Angeles, Calif., assignor, by mesne assignments, to Richard W. Tull, Fanwood, N. J. Filed Nov. 16, 1925. Serial No. 69,354. 2 Claims. (Cl. 45—81.)



1. A table top comprising a plurality of trays each having an upstanding marginal flange and a body having plane upper and lower faces, a support, for the table top, constructed of openwork, and devices upstanding from the openwork for dividing its area to receive only a predetermined number of the trays of the table top, there being an unobstructed space above said trays when they are supported upon said table top to adapt the table for diner's use.

1,749,751. FURNITURE CASTER. JOHN BRIGSTEN, Redondo Beach, Calif. Original application filed Feb. 25, 1928, Serial No. 256,986. Divided and this application filed Nov. 19, 1928. Serial No. 320,462. 2 Claims. (Cl. 16—44.)

1. A device of the character described comprising a support having a cylindrical portion adapted to be arranged in a socket formed in the lower end of a leg of an article of furniture and provided with a head at its upper end, a cup slidable in the lower end of said cylindrical portion, a stem carried by said cup and projecting upwardly through said head, a caster carried by said cup and arranged therebeneath, a spring surrounding said stem between the bottom of said cup and said head and normally urging said caster downwardly, said support being provided with a depending annular portion having



its lower extremity normally arranged above the bottom of said caster, the upper end of said stem being threaded, and a nut arranged on the upper end of said stem and contacting with the upper face of said head to limit the downward movement of said caster, said nut being adapted to be turned downwardly on said stem for moving said caster upwardly and holding it above the lower extremity of the annular portion of said support.

1,749,752. HANDLE. ERIK AUGUST BOLINDER, Stockholm, Sweden. Filed June 18, 1928, Serial No. 286,321, and in Sweden Nov. 16, 1927. 1 Claim. (Cl. 16—120.)



A handle for range doors and the like, including a spindle and a wire member surrounding the spindle and having the body portion thereof in the form of a helix, and the terminal coils of the helix being extended inwardly within the body portion and attached to the outer end of the spindle said outer end of the spindle terminating within the body portion to prevent contact of the hand therewith when the handle is grasped.

1,749,753. LAMP CHANGER. CARL C. CAUFFIELD, Niles, Ohio. Filed June 2, 1928. Serial No. 282,404. 1 Claim. (Cl. 294—33.)

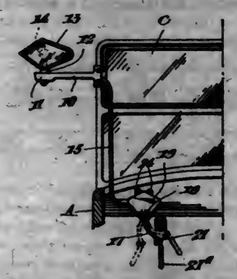
In a device of the class described, a handle member having a recess in one end thereof; a metallic cap over the recessed end of the member and having an opening in alignment with the recess, a gripping member formed of a single wire folded on itself to constitute a shank, said shank being adapted to be secured in said recess,

two arms extended outwardly from said shank, said arms having divergent portions, coiled portions, and mutually parallel portions, said parallel portions of said arms ter-



minating in opposed spaced circular loops having outwardly flared upper portions and rubber covered lower portions to facilitate, respectively, insertion and gripping of an electric bulb.

1,749,754. DIRECTION INDICATOR. FREDERICK AUGUST DARCHSEL, Ottawa, Ontario, Canada. Filed June 2, 1925. Serial No. 34,386. 1 Claim. (Cl. 116—46.)



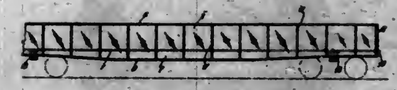
A direction signal for automobiles comprising a turnably mounted casing adapted to be turned through 180 degrees, positioning means comprising a ball and spring mounted in a socket for releasably holding said casing in mid position, a Bowden wire having one end operatively connected with the casing, a substantially S-shaped lever pivoted intermediate of its length, the other end of the Bowden wire being connected to one end of said lever, and equalizing springs operatively connected with opposite sides of the lever whereby it is normally maintained in mid position.

1,749,755. SCREEN PATCH. DAVID DOWNER, Cimarron, Kans. Filed July 13, 1928. Serial No. 292,549. 1 Claim. (Cl. 156—14.)



A repair patch for screens, including a substantially wide metallic ring member, spurs formed integral with the ring member and disposed adjacent to the outer edge of the ring member, said spurs adapted to be extended through the mesh of the wire screen to which the patch is secured, and wire mesh material welded to the wide metallic ring member.

1,749,756. CAST-METAL CAR BODY. ALBERT W. ALBRECHT, University City, Mo. Filed May 3, 1929. Serial No. 360,082. 9 Claims. (Cl. 105—406.)



1. A unitary cast-metal car body comprising a single casting including a floor, two integral longitudinal side walls rising from and extending throughout the length of said floor, end walls rising integrally from the ends of the floor and integrally connected with the ends of said side walls, integrally formed means on the under face of the floor adjacent to each end thereof for connecting the car body to the trucks, and means under the ends of said floor for receiving coupling devices.

2. A unitary cast-metal car body comprising a single casting including a floor, two integral longitudinal side walls rising from and extending throughout the length of said floor, end walls rising integrally from the ends of the floor and integrally connected with the ends of said side walls, means under the ends of said floor for receiving coupling devices, bosses integral with the under side of the floor forming abutments for coupling devices, and longitudinal flanges integral with the under side of the floor and with said bosses.

1,749,757. METAL FUSELAGE OR BODY. EDMUND BURKE CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 5, 1927. Serial No. 173,086. 3 Claims. (Cl. 244—30.)

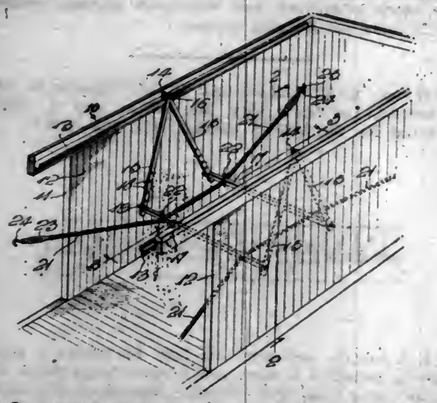


1. A fuselage for aircraft, substantially triangular in cross section and made of three preformed sides, each side having a convex curvature from one end to the other and having a continuous convex transverse curvature at all points along its length, whereby each side is longitudinally and transversely arched, such arched assembly of the three sides being substantially rigid in all dimensions.

1,749,758. LOADING OR DECKING DEVICE FOR AUTOMOBILES IN FREIGHT CARS. ALFRED COPONY, Mount Clemens, Mich., assignor to Copony Auto Loading Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 21, 1927. Serial No. 162,641. 13 Claims. (Cl. 105—368.)

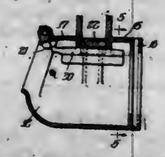
1. In a vehicle decking device for freight cars, the combination with vehicle supporting means of means permitting movement of said supporting means within the

freight car whereby the vehicles may be loaded at a single point in the car and then moved to selected points of storage.



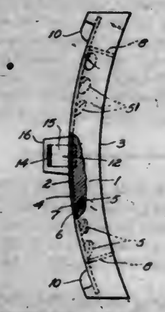
2. In a vehicle decking device for freight cars, the combination of vehicle supporting means with means permitting movement of said supporting means longitudinally of the freight car whereby vehicles may be loaded at a single point in the car and then moved to selected points of storage.

1,749,759. JOURNAL-BOX CONSTRUCTION. HARRY C. DREIBUSS, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed Mar. 23, 1928. Serial No. 264,191. 12 Claims. (Cl. 105—205.)



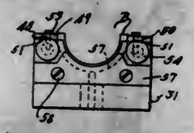
1. In combination, a side frame having tension and compression members and a journal box integral therewith having a wedge-engaging bearing member disposed within said journal box and integral therewith, the roof of said journal box both inwardly and outwardly of said tension and compression members being at a higher level than said wedge-engaging member, the wedge member in said journal box engaging said first mentioned member, one of said members being convex on the surface thereof which engages the other of said members.

1,749,760. BRAKE SHOE. WILLIAM M. DUNCAN, Alton, Ill. Filed Apr. 2, 1928. Serial No. 266,520. 1 Claim. (Cl. 188—258.)



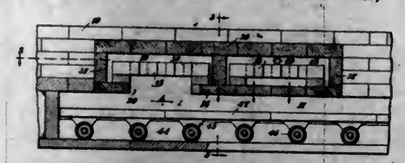
A device of the kind described, comprising a cast metal brake shoe provided with a reinforcing back, said back including a curved member at the rear face of the shoe and legs surrounded by the cast metal and extending from said curved member to the face of the cast metal shoe to serve as chaplets in making the casting.

1,749,761. BROACHING MACHINE. CHARLES W. EGGENWEILER, Detroit, Mich., assignor to Bohn Aluminum and Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed July 7, 1925. Serial No. 42,005. 13 Claims. (Cl. 90—59.)



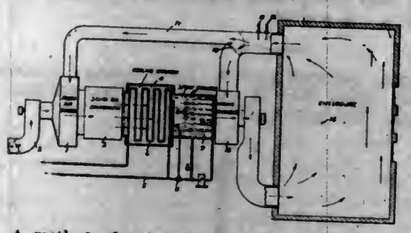
1. In a work holder for use with a broaching machine, a block formed with a recess for receiving a bearing or like section, and adjustable sections constituting portions of the wall of said recess for adjusting the parting edges of said bearing relative to each other.

1,749,762. TUNNEL KILN AND METHOD OF OPERATING THE SAME. FRANCIS A. J. FITZ GERALD, Niagara Falls, N. Y., and JAMES KELLEHER, Chippawa, Ontario, Canada, assignors to Harper Electric Furnace Corporation, a Corporation of New York. Filed June 10, 1925. Serial No. 36,086. 16 Claims. (Cl. 266—1.5.)



1. In an electric kiln furnace, a chamber through which material to be heated to a high temperature is moved, a resistor exposed to the atmosphere of said chamber and adapted to heat such material to a temperature less than said high temperature, and an enclosed resistor adapted to heat said material from said second-named temperature to said high temperature.

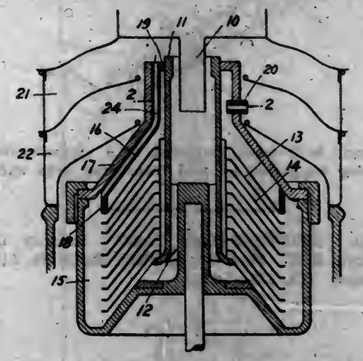
1,749,763. METHOD AND MEANS FOR REDUCING TEMPERATURE BY DEHYDRATION. WALTER L. FLEISHER, New York, N. Y., assignor to The Cooling & Air Conditioning Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 8, 1928. Serial No. 298,213. 20 Claims. (Cl. 62—176.)



1. A method of reducing the temperature of air consisting in dehydrating the air and saturating it.

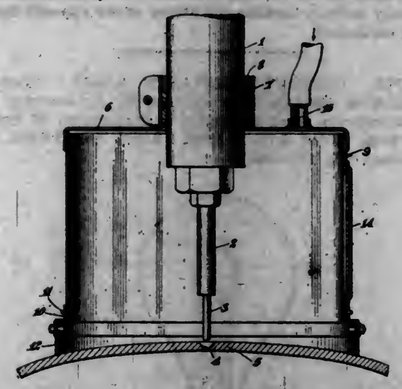
1,749,764. CENTRIFUGAL SEPARATOR. ERIK AUGUST FORSBERG, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 6, 1928, Serial No. 252,177, and in Sweden Feb. 12, 1927. 13 Claims. (Cl. 233—28.)

1. The combination with a centrifugal separator bowl and the hood thereof, and a distributor adapted to discharge the mixture to be separated into the separating chamber of the bowl, of means providing outflow passages for the heavier and lighter components respectively, the first passage being in communication with the peripheral part of the bowl and the second passage being in communication with the part of the bowl relatively near its



axis, an upstanding neck on the hood, said passages extending within said neck and the first passage extending substantially above the discharge of the second passage, and a hollow regulating screw projecting through said neck and providing a discharge for the second passage and extending substantially further from the axis of the bowl than the discharge end of the first passage.

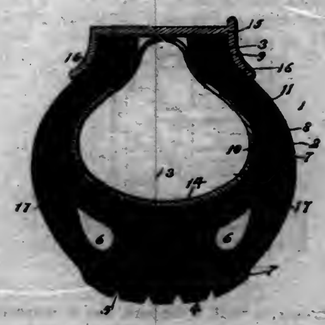
1,749,765. APPARATUS FOR ELECTRIC WELDING. JOHN B. HENDRICKSON, Philadelphia, Pa., assignor to Welding Engineers Incorporated, a Corporation of Delaware. Filed Mar. 13, 1926. Serial No. 94,880. 5 Claims. (Cl. 219—14.)



4. In welding apparatus the combination with means for supplying a rod of material to the weld on the article being welded, of a casing supported by the apparatus and enclosing the rod and the point of welding of the article, said casing having an edge closely adjacent the surface of the said article, and means for supplying to the interior of said casing at a point comparatively remote from the point of welding, an inert gas under pressure tending to exclude air, said inert gas having no deleterious effect on the metals during welding.

1,749,766. TIRE. JOSEPH C. HITCHNER, Philadelphia, Pa., assignor to Hitchner Tire Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Aug. 11, 1928. Serial No. 298,997. 2 Claims. (Cl. 152—10.)

1. In a tire, an annular resilient body having its tread portion extending inwardly into proximity to the transverse diameter of the tire and provided with spaced textile reinforcements extending in arch formation across the tread and through the side walls to the terminal seatings, said tread having intermediate its depth at opposite sides



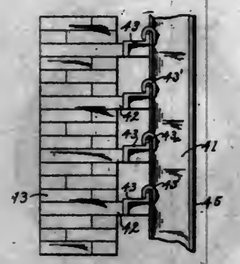
an annular chamber, the side walls being split from said chamber through the terminal seatings, and the outer of said side walls being inwardly bulged at the inner portion of a juxtaposed side chamber to maintain said side chambers closed at such locations when the tire is under load.

1,749,767. PICTURE-GRAPH MACHINE. LEWIS H. HUTCHINSON, South Portland, Me. Filed Mar. 27, 1929. Serial No. 350,330. 3 Claims. (Cl. 46—87.)



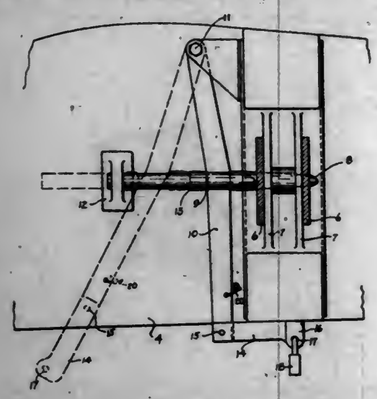
3. In a device of the character described comprising a box, a cover for said box, an aperture in said cover, a sleeve fixed in said box, a turning-plate adapted to lie flatwise against and revoluble on the exposed edge of said sleeve, a plurality of spokes in said turning-plate, a shaft extending through said turning-plate and said box, a crank handle on said shaft, a picture disc fixed on said turning-plate and having imprinted thereon groups of pictorial sketches arranged in separated relation and representing the same subject but of different views thereof, relatively, an arcuate rail in said box concentrically disposed with respect to said shaft, and having one end cut on an incline and the other end cut square, a drive-plate fixed on said shaft, one end thereof adapted to ride said rail, a pawl on said drive-plate adapted to engage, successively, each of the said spokes, said engagement being accomplished once during each revolution of said shaft and effective to bring into register with said aperture, one of the pictorial sketches on said picture disc, and a washer disposed interjacent said cover and said picture disc and serving as a brake to arrest the rotary movement of said picture disc when said pawl becomes disengaged from said turning plate.

1,749,768. FURNACE WALL. DAVID S. JACOBUS, Jersey City, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Original application filed Jan. 31, 1924, Serial No. 689,610. Divided and this application filed June 30, 1925. Serial No. 40,487. 13 Claims. (Cl. 72—101.)



1. In a furnace, a wall, a support, and a connection between said wall and support comprising a member having substantially parallel legs joined by a portion of approximately semi-cylindrical shape.

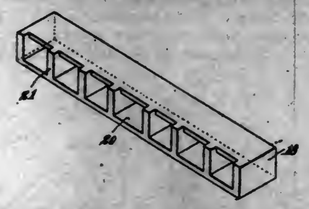
1,749,769. AIRPLANE-WING CONNECTION. CORYDON MILTON JOHNSON, Farmingdale, N. Y., assignor to Fairchild Airplane Manufacturing Corporation, New York, N. Y. Filed Mar. 31, 1927. Serial No. 179,931. 6 Claims. (Cl. 244—12.)



1. In an airplane having a folding wing section, a support, a detachable connection for the inner end of the wing section comprising a pair of inter-fitting connections, one on the wing section and one on the support, a pin inter-connecting said connections, and a manually operated downwardly extending lever connected to said pin and located adjacent thereto, for quickly manually moving the pin to release the section, said lever having a handle portion movable thereon to a position flat against the lower wing surface.

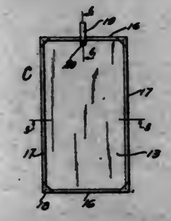
1,749,770. MOLD AND CORE FOR LINE-CASTING MACHINES. ERIK W. JOHNSON, Chicago, Ill., assignor of one-half to Leon A. Kamradt, Chicago, Ill. Filed Sept. 24, 1927. Serial No. 221,671. 3 Claims. (Cl. 101—402.)

1. An integral slug of a cellular type of construction having a bottom, an overhanging top and an imperforate back, a plurality of transverse webs coextensive in length with the bottom, said overhanging top co-acting with said webs, bottom and imperforate back in forming cells, said



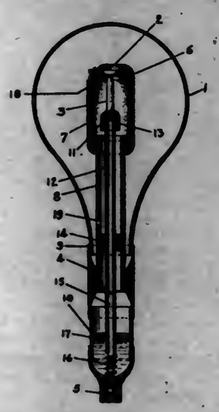
imperforate back when employed as a character-bearing shelf being supported by said transverse webs and said bottom.

1,749,771. SHIRT-DISPLAY CARD. HERMAN LEVEY, Brooklyn, N. Y. Filed Oct. 6, 1928. Serial No. 310,698. 3 Claims. (Cl. 223—18.6.)



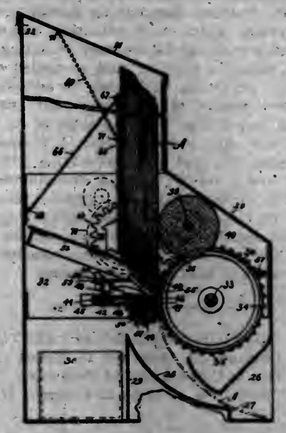
1. A shirt display card comprising a corrugated cardboard having substantially straight edges, and a thin metallic strip embracing said edges, said strip being of V cross section forming thin, smooth edges for the cardboard at the apex of the V, the said metallic strip lying substantially entirely between the planes of the opposite faces of the cardboard.

1,749,772. CONTACT-RESISTANCE LAMP. CHARLES FREDERICK LORENZ, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Aug. 1, 1924. Serial No. 729,463. 7 Claims. (Cl. 176—28.)



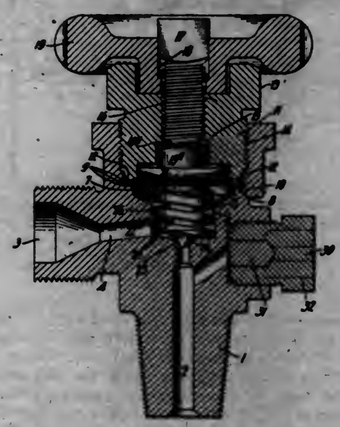
7. A contact resistance lamp comprising a container, a plurality of electrodes therein having surfaces in contact, means for partially enclosing the contact portions of said electrodes, one of said electrodes cooperating with said means to completely enclose the said contacting portions, and means for equalizing the pressure at opposite sides of said enclosing means.

1,749,773. VENDING MACHINE. GEORGE H. MATCHETT, Cleveland, Ohio. Filed Sept. 5, 1925. Serial No. 54,603. 5 Claims. (Cl. 312—54.)



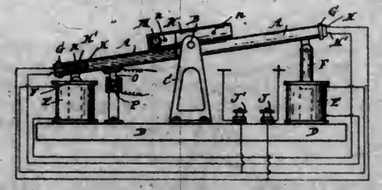
1. In a machine of the character described, the combination of an inclined platform for supporting sheets or the like on edge, means for maintaining the sheets in upright position, extrusion means adjacent the lower edge of said platform for withdrawing sheets therefrom in succession, and means operatively associated with said extension means for vibrating said platform.

1,749,774. VALVE. WILLIAM F. MCKAY, Newark, N. J., assignor to International Oxygen Company, a Corporation of New Jersey. Filed Sept. 19, 1928. Serial No. 306,822. 2 Claims. (Cl. 251—139.)



1. A valve having a valve chamber comprising a cylindrical portion having an inlet opening at one end and an outlet opening at one side adjacent said end, and a portion of greater diameter at the end of the chamber farthest from the inlet opening; an imperforate diaphragm closing the large end of said chamber; a valve element including a stem, a relatively blunt cone portion engaging in the inlet opening and a broad base portion abutting against but unattached to said diaphragm; and means for centering and retracting said valve element including a flat ended helical spring, of rectangular cross-section, the interior of which approximately fits over the valve stem and the exterior of which approximately fits said cylindrical portion having the inlet and outlet openings, in combination with means for operating the valve element including external means for forcing the diaphragm inward against the pressure of said spring.

1,749,775. AUTOMATIC ELECTRIC-CIRCUIT-CONTROLLING DEVICE. THOMAS LEWICE MINFORD MILLAR, Hamilton, New Zealand. Filed Mar. 14, 1925, Serial No. 15,453, and in New Zealand Oct. 29, 1924. 4 Claims. (Cl. 200—90.)



1. An automatic electric circuit controlling device comprising a main tube pivoted at its middle to rock in a vertical plane, a solenoid disposed beneath said tube on each side of said pivot point and having a core operatively connected to said tube, contact means within each end of said tube adapted to connect the solenoid disposed on the other side of said pivot point therefrom in circuit with a source of electrical energy, a metallic ball movable in said tube and adapted to close the circuit of the contact means at each end of said tube when such end is lowered, means in said tube for restraining the movement of said ball, said means being adapted to be varied to vary the time of travel of said ball through said tube and a movable weight mounted on said tube and capable of movement across said pivot point as each end of said tube is lowered but adapted to be restrained on one side thereof, whereby the end of said tube on the same side of said pivot point as said weight is caused to drop back to its lowest position immediately after it has begun to rise.

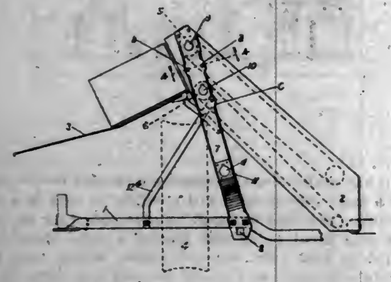
1,749,776. HAM BAG. LOUIS A. O'LENA, Brooklyn, N. Y. Filed Apr. 25, 1928. Serial No. 272,770. 2 Claims. (Cl. 150—52.)



1. A bag or cover for purposes described, consisting of a unitary, seamless, knitted tube, one portion of which is

relatively tightly knitted and another portion relatively loosely knitted, whereby the respective portions are adapted to conform to small and large portions of a ham or other meat-joint, the upper end of the tightly knitted portion having its margins connected by side-seams, providing a restricted opening to accommodate a suspension cord connected to the ham-shank, when the bag is applied thereto.

1,749,777. HARVESTER BINDER. LOUIS A. PARADISE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Feb. 23, 1927. Serial No. 170,081. 4 Claims. (Cl. 56—1.)



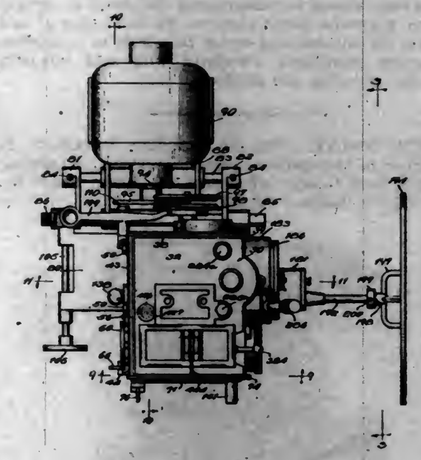
1. In a grain harvester and binder, the combination with the main frame and the front elevator support, of a channel bar having both ends flattened and rigidly secured respectively to said support and the main frame, said bar being provided with a plurality of bearing supporting openings.

1,749,778. REGISTER LOCK. JOSEPH V. PETRELLI, New Rochelle, N. Y. Filed Feb. 18, 1928. Serial No. 255,217. 3 Claims. (Cl. 98—110.)



1. The combination with a grating, of a housing on one side of and connected to said grating, and provided with an opening substantially coaxial with said grating, shutters pivotally mounted to said housing and controlling the passage of gas through said grating, slidable means for actuating said shutters from the side of said grating opposite the shutters, the grating having an elongated opening through which said actuating means projects, and threaded means carried by said actuating means for cooperation with the sides of said elongated opening for clamping said actuating mechanism in adjusted position, said threaded means comprising a nut non-rotatably mounted for cooperation with the sides of said elongated opening on one side, a headed bolt in threaded engagement with said nut, and also cooperating with said slidable means, and a washer member beneath the bolt head and shaped to enclose the projecting end of said actuating means and fit into said elongated opening and also engage its sides opposite the nut in such manner that tightening the bolt clamps said washer member and nut against the sides of said elongated opening.

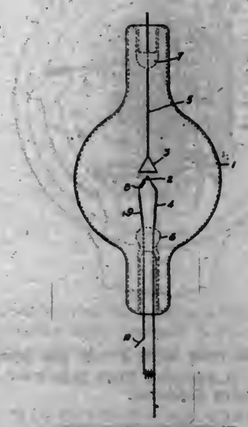
1,749,779. MOTION-PICTURE APPARATUS. JOHN PROKSA, Chicago, Ill., assignor to Helios Corporation, Chicago, Ill., a Corporation of Delaware. Filed Mar. 21, 1925. Serial No. 17,336. 15 Claims. (Cl. 88—17.)



1. In apparatus of the kind described and in combination, film advancing means, an electric motor, means including a plurality of relatively movable friction disks for operatively connecting the motor to the film advancing means, said disks being arranged in parallel planes and common means for displacing the motor and one of said disks to change the speed at which the film is advanced.

5. In apparatus of the kind described and in combination, a frame having a light projecting aperture, a shutter, a centrifugally operated means for bringing said shutter into and out of alignment with said aperture, said centrifugally operated means comprising a tube rigidly secured in the frame, a pin slidably journaled in the tube, a member rotatably journaled on the tube and provided with two sets of gear teeth, weights pivotally mounted on said member and operatively connected to the pin, means operatively connecting the pin to the shutter, means meshing with one set of gear teeth for driving said member, a film-advancing sprocket, and means meshing with the other set of gear teeth for driving the sprocket.

1,749,780. INCANDESCENT-CATHODE DEVICE. HARVEY CLAYTON RENTSCHLER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Jan. 31, 1922. Serial No. 533,105. 6 Claims. (Cl. 250—27.5.)

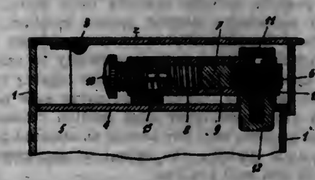


6. A rectifier comprising a large iron anode, a small thorium cathode and a tungsten heating coil in series with said cathode.

1,749,781. METHOD OF OBTAINING LEAD OXIDE IN A STATE OF HIGH DISPERSION. LUDWIG SCHERTEL and WILLI LÖTY, Essen, Germany, assignors to the Firm Th. Goldschmidt A.-G., Essen, Germany. Filed Feb. 4, 1925, Serial No. 6,894, and in Germany Feb. 8, 1924. 3 Claims. (Cl. 23—146.)

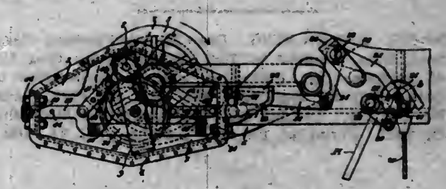
1. A method of obtaining lead oxide in a state of high dispersion from a hot gas medium carrying lead oxide vapors comprising suddenly cooling said gas medium and subjecting the cooled gas medium with the fine particles of lead oxide suspended therein to dust precipitating means.

1,749,782. POCKET LIGHTING DEVICE. THEODER SCHILD, Grenchen, Switzerland. Filed June 18, 1927, Serial No. 199,712, and in Switzerland Apr. 6, 1927. 2 Claims. (Cl. 67—7.1.)



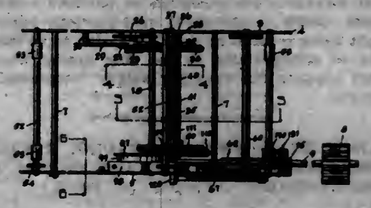
1. A pocket lighting device, comprising a flat container substantially rectangular in cross section and having a horizontal supporting wall adjacent one of its ends, a vertical stud fixed in said wall, a tubular casing rotatable in a horizontal plane about said stud parallel to said supporting wall, a friction wheel also rotatable about said stud and partly enclosed in said tubular casing, and a spring pressed pyrophoric element in said casing and adapted to adjustably engage said friction wheel.

1,749,783. REVERSE-CONTROLLED OPERATING MECHANISM. DELMAR C. SHERMAN, Chattanooga, Tenn., assignor to Williamsport Wire Rope Company, a Corporation of Pennsylvania. Filed Sept. 27, 1928. Serial No. 308,864. 14 Claims. (Cl. 105—242.)



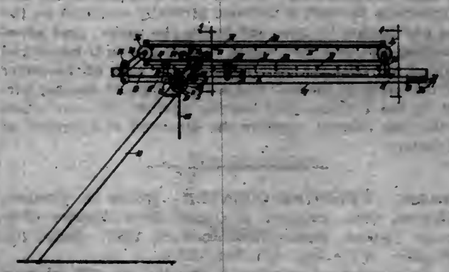
1. The combination with a carrier including a track sheave, of a movable member supported by the carrier, a slide operated by the sheave when the direction of movement of the carrier is reversed, and means operated by the slide for shifting said member.

1,749,784. MECHANISM FOR ADVERTISING DEVICES. DAVID SLOTSKY, Cleveland, Ohio. Filed July 16, 1928. Serial No. 292,952. 2 Claims. (Cl. 40—31.)



1. In a display mechanism, sheet material having display matter contained thereon, a pair of rolls for rolling up the sheet material, and a plurality of collars located in spaced relation for operating on the sheet material and to locate the sheet material in position to be displayed, a pair of burrs, means for pressing the sheet material against the burrs, a driving mechanism and a driven mechanism for operating the collars and the burrs, the driving mechanism having means for intermittently operating on the driven mechanism for short periods of time separated by longer periods of time to move the sheet material to expose parts thereof, the driven mechanism having means for reversing the movement of the collars, and a means for operating the rolls to produce a surface movement of the rolls greater than the surface movement produced by the collars, and a frictional release between said last named means and the rolls to maintain the sheet material taut in the vicinity of the rolls.

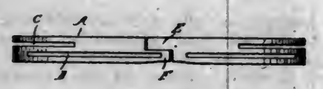
1,749,785. HAY LOADER. WILLIAM O. SMITH, Cuyahoga Falls, Ohio. Filed Apr. 15, 1927. Serial No. 183,968. 9 Claims. (Cl. 198—89.)



7. The combination with a hay loader of a hay distributing conveyor arranged to receive hay from the

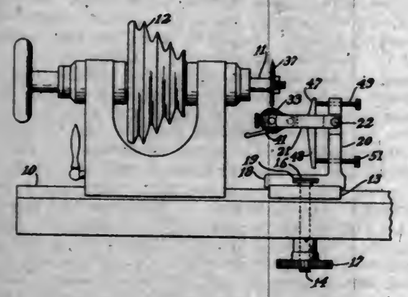
loader, said conveyor comprising a frame slidable on said loader, telescoping members supported by the loader and the forward end of the frame over which the hay is conveyed, and conveyor rakes mounted on the frame for moving the hay over said telescopic members.

1,749,786. PISTON RING. DEAN M. SOLENBERGER, Cleveland, Ohio, assignor to The Simplex Piston Ring Co. of America, Inc., Cleveland, Ohio, a Corporation of Ohio. Original application filed Apr. 16, 1923, Serial No. 632,290. Divided and this application filed Mar. 28, 1927. Serial No. 179,122. 1 Claim. (Cl. 74—109.)



A sealing ring comprising a trans-split ring member having a normal axial dimension in excess of that of the ring groove and provided with overlapping series of circumferentially extending slots rendering all portions of said ring with the exception of portions adjacent to the split axially compressible, said portions adjacent to the split being reduced in axial dimension to be insertable in and to substantially fit the ring groove when said portions opposite the slots are axially compressed to fit the groove.

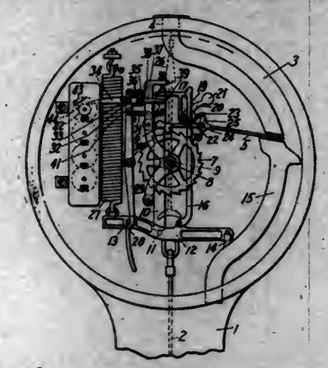
1,749,787. GEAR-WHEEL-ROUNDING APPARATUS. THOMAS STAARUP, Birmingham, Ala. Filed Oct. 1, 1928. Serial No. 309,628. 2 Claims. (Cl. 90—8.)



1. In a gear wheel rounding up attachment for lathes having a rotary mandrel and a bed, an indexing cutter mounted on the mandrel, a base adjustably mounted on the lathe bed and adapted to be moved longitudinally and transversely thereof, a U-frame pivotally mounted on the base and having its open end facing the cutter, gear wheel mounting and centering means carried by the U-frame and adapted to position a gear wheel in the path of the cutter and transversely thereof, and a pivoted guard member carried by the U-frame and bearing against the gear wheel on the side thereof opposite the direction of approach of the cutter.

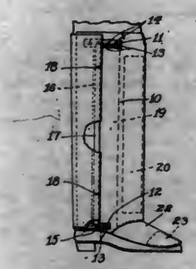
1,749,788. WEIGHING COUNTER. BRUCE H. TINGLEY, Dayton, Ohio, assignor to Ohmer Fare Register Company, Dayton, Ohio. Filed June 27, 1927. Serial No. 201,570. 4 Claims. (Cl. 194—35.)

1. In a weighing machine, a counter, an arm whereby said counter may be actuated, a lever to actuate said arm, a pin and slot connection between said arm and lever, means to actuate said lever each time a weight is placed on said machine, and means to prevent the actuation of



said arm by said lever until a coin has been deposited, said pin sliding in said slot when said lever is actuated without a coin being deposited.

1,749,789. FIREPROOF LEGGING. EDISON L. WHEELER, Evanston, Ill. Filed May 23, 1928. Serial No. 280,063. 6 Claims. (Cl. 36—2.)

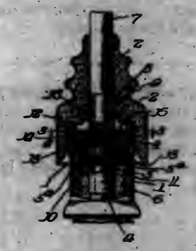


1. In a legging, the combination of a sheet of flexible material for encircling the leg of the user with one vertical edge portion overlapping the opposite edge portion, metal pockets secured to the outer surface of the inner one of said edge portions adjacent the upper and lower edges of said sheet, said pockets opening towards each other, means holding said pockets in desired spaced relation, and a flexibly resilient metal bar secured to the outer one of said edge portions and extending vertically to enter and engage said pockets at its ends with the legging in place on the leg of the user, whereby springing said bar outwardly away from said inner edge portion releases said bar from said pockets, said bar having shouldered portions adjacent its ends limiting the extent of engagement between its ends and said pockets.

1,749,790. ELECTRICAL CONNECTER. PAUL F. WILLIAMS, Chicago, Ill., assignor to G & W Electric Specialty Co., Chicago, Ill., a Corporation of Illinois. Filed June 17, 1922. Serial No. 568,054. 9 Claims. (Cl. 173—353.)

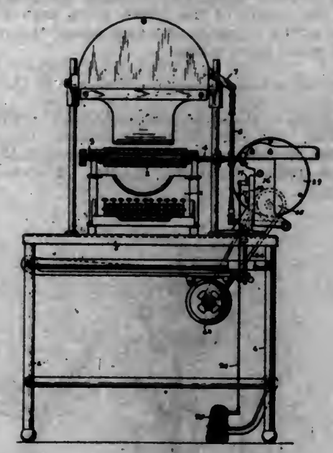
1. The combination with plug and socket members of a sleeve arranged to be interposed between said members, said sleeve being exteriorly threaded and the socket member being interiorly threaded to cooperate with the exterior

of the sleeve, and said sleeve being also provided with a threaded bore and the plug member having a correspond-



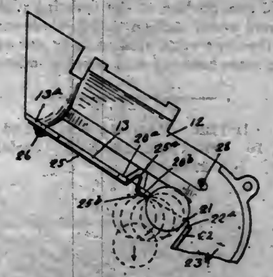
ingly threaded portion to cooperate with said bore, and said plug member being adapted to extend down to and make contact with the bottom of said socket member.

1,749,791. WORK-FEEDING MECHANISM FOR TYPEWRITING MACHINES. HARRY L. WOOD, Lakewood, Ohio, assignor to David W. K. Peacock, Cleveland, Ohio. Filed Sept. 2, 1925. Serial No. 54,000. 2 Claims. (Cl. 197—130.)



2. The combination of a typewriting machine, having a carriage and a platen; a work feeding device adapted to supply work members successively to said machine, of an electrically driven motor for driving the feeding device, reciprocating and rotating means connected with the typewriter carriage and with said feeding device so as to actuate the latter, said reciprocating means being arranged so as to effect the actuation of said feeding means during one stroke and the rotation of the typewriter platen during its other stroke; a clutch interposed between the motor and the feeding device and means operable by the operator to set the reciprocating means in motion to feed the work to the typewriter platen.

1,749,792. CHECK DETECTOR. HAROLD B. WOODS, Arlington, Mass., assignor, by mesne assignments, to Consolidated Automatic Merchandising Corporation, a Corporation of Delaware. Filed Feb. 5, 1927. Serial No. 166,045. 20 Claims. (Cl. 194—103.)



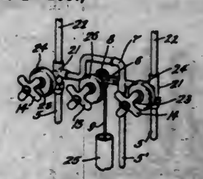
20. In a mechanism for testing a circular check, a check passage, a magnet placed adjacent said passage to test checks for their magnetic properties, a weight and size testing device so placed in the said passage as to strip any checks off the magnet that adhere thereto.

1,749,793. GARAGE CONSTRUCTION. HENRY L. WOOLFENDEN, Detroit, Mich. Filed May 31, 1928. Serial No. 281,659. 12 Claims. (Cl. 20—1.13.)



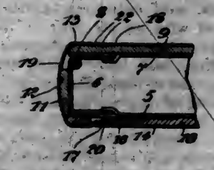
1. In combination, a pair of substantially level superposed vertically spaced floors, a ramp extending between said floors comprising a straight portion and curved end portions, the inner edge of the path of travel of said curved end portions terminating at each floor in the plane thereof and the outer edge of the path of travel of said curved end portions terminating at each floor at a superelevation with respect thereto, the floor adjacent to each of said ramp ends being warped to merge into said ramp ends.

1,749,794. BATH-FIXTURE LUG. WILLIAM J. WOOLLEY, Chicago, Ill. Filed July 1, 1929. Serial No. 375,187. 8 Claims. (Cl. 4—199.)



1. A bath fixture, comprising a flow valve operating device having an arm formed integrally therewith, and a waste valve operating device adapted to be supported by said arm.

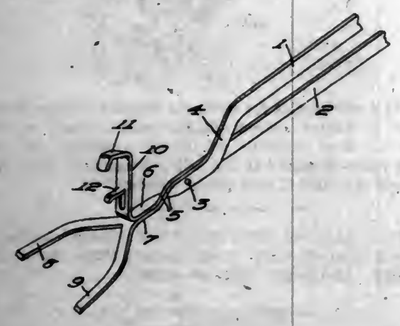
1,749,795. DECORATIVE COVERING FOR VANITY CASES, COIN BANKS, AND OTHER RECEPTACLES. DAVID H. ZELL, Brooklyn, N. Y. Filed Apr. 25, 1929. Serial No. 357,891. 4 Claims. (Cl. 282—4.)



1. A book form structure including a body having a back or rear edge and a cover member hingedly mounted thereon,

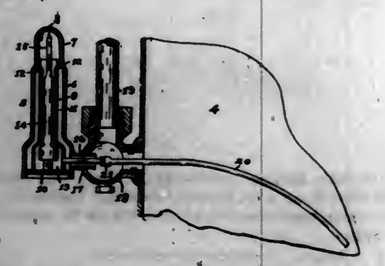
an ornamental flexible facing sheet covering the side wall of said body, an ornamental flexible covering sheet secured upon said cover member and having a free portion projecting beyond the hinge line of the cover member and around the rear edge of said body, and means connected with the edge of said free portion of the covering material to maintain the same under tension and in close snug fitting contact with the rear edge of said body during the opening and closing movements of said cover member.

1,749,796. LIFTER. HJALMAR AHLIN and AXEL AHLIN, Chicago, Ill. Filed Feb. 16, 1928. Serial No. 254,756. 2 Claims. (Cl. 294—29.)



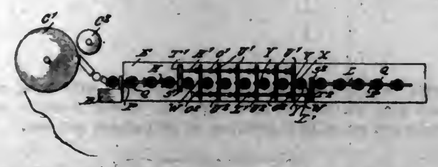
1. In a lifter, a pair of flat bars pivotally connected together and disposed edgewise at one end to form a handle, said bars beyond their pivot, with respect to said handle, being twisted to form cooperating flat jaws disposed at right angles to said handle, the free end of one bar beyond its flat jaw being bifurcated and the resultant prongs spread apart, the other bar beyond its flat jaw being bent at right angles thereto and terminating in a hook, and a tongue struck from the said bent portion.

1,749,797. AUTOMATIC AIR CONTROL FOR WATER-SUPPLY SYSTEMS. JOHN A. ANDERSON, Pittsburgh, Pa., and WILLIAM H. ELMES, Toronto, Ontario, Canada. Filed July 16, 1927. Serial No. 206,231. 1 Claim. (Cl. 137—68.)



In combination, an automatic air control for a water supply system of the character described including a pressure tank, comprising an air valve consisting of an outer casing having its lower end communicably connected with said pressure tank, said outer casing having a reduced upper end provided with an air vent at the top thereof, an inner casing providing a valve chamber and mounted in said outer casing, said inner casing having an open upper end fixed in said reduced portion of said outer casing, said outer casing having a removable bottom constituting a bottom for said valve chamber, said inner casing being formed with a plurality of air ports which are disposed adjacent to the upper end thereof and establishing communication between said outer casing and said valve chamber, a valve float mounted for vertical movement in said valve chamber, a valve pin carried at the upper end of said valve float and adapted for seating in said air vent for closing the latter, and a siphon tube having one end thereof connected with the lower end of said inner casing and communicating with said valve chamber, said siphon tube extending into the pressure tank and having the free end thereof disposed below the plane of its connection with the lower end of said inner casing.

1,749,798. MANUFACTURE OF GLASS SHEETS. LOUIS BOUDIN, St.-Gobain, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Filed Apr. 8, 1927, Serial No. 182,111, and in France Apr. 15, 1926. 6 Claims. (Cl. 49—8.)



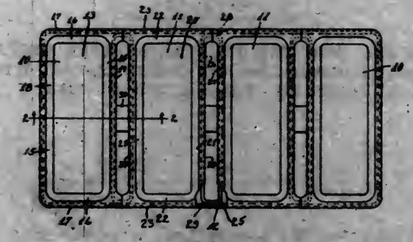
6. The combination with an intermittent sheet glass forming machine, and with a lehr to receive the sheet as formed, of at least five groups of rollers arranged along the length of the lehr, means for driving the rollers of the first group at substantially the speed of sheet formation, means for engaging and disengaging rollers of the second group with and from the drive of the first group, means for driving the rollers of the fifth group at a substantially constant speed, and means for engaging and disengaging the rollers of the fourth group with and from the drive of the rollers of the fifth group, the rollers of the third group being idlers.

1,749,799. ADJUSTABLE ELECTRIC PORTABLE CLUSTER. MICHAEL B. BOWEN, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill. Filed Apr. 20, 1928. Serial No. 271,501. 2 Claims. (Cl. 240—78.)



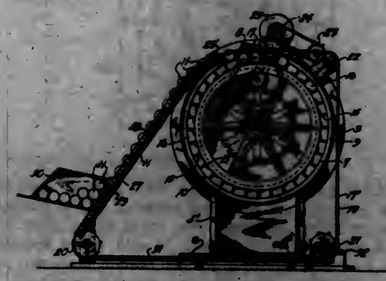
1. In an adjustable electric portable cluster, substantially as described, the combination of an annular band or frame, a pair of pivotally operating oppositely disposed sides having annular recesses or seats to fit said band or frame, a nozzle on each of said sides for the attachment of an electric socket, means in said sides for maintaining the snug pivotal operation thereof.

1,749,800. BAKING-PAN UNIT. ELMER H. CHANDONIA, Dayton, Ky., assignor to Lockwood Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 15, 1927. Serial No. 199,106. 4 Claims. (Cl. 53—6.)



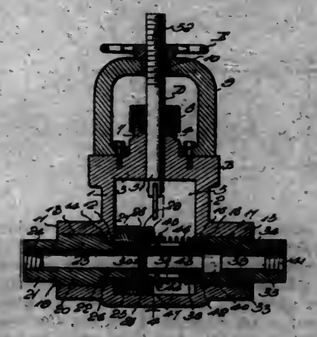
1. A multiple pan unit comprising a plurality of pans arranged in the form of substantially a rectangular unit, the pans having flanges on each of their edges, a flat, rigid strap member surrounding the rectangular unit and having the adjacent flanges of the several pans turned about it, the said flanges of the pans having integral means for abutment one with the other whereby to provide uniform spacing between adjacent pans in the unit, and elongated links having opposed ends abutting the strap and the remaining flanges of adjacent pans turned thereabout for strengthening said edges of the pans and means to preclude lateral collapse of the links.

1,749,801. AUTOMATIC FEEDING DEVICE. FRANK D. CHAPMAN, Berlin, Wis., assignor to Berlin Chapman Company, Berlin, Wis., a Corporation of Wisconsin. Filed Oct. 1, 1927. Serial No. 223,344. 7 Claims. (Cl. 198—108.)



1. The combination with a cooker tank having an inlet opening and a spiral member and an inner rotary member provided with can receiving pockets, of an automatic feeding device therefor, comprising an endless carrier member extending in a line parallel to the spiral member and at an oblique angle to the axis of the tank and over the tank directly adjacent the inlet opening and having can receiving spaces, and means for moving the carrier at a speed in timed relation to the speed of rotation of the inner rotary member to aline the can spaces of the carrier with the pockets of the rotary member.

1,749,802. METERING VALVE. THADDEUS W. CULMER and WILLIAM K. MARSEY, Robinson, Ill. Filed Feb. 1, 1929. Serial No. 336,804. 8 Claims. (Cl. 137—75.)



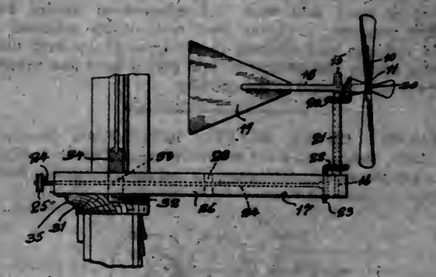
1. In combination, a casing, a fluid inlet, an outlet, an iris diaphragm mounted on said outlet, means for adjusting the diaphragm, a sleeve, and means for resiliently holding the sleeve against the diaphragm.

1,749,803. MEANS FOR DERAILING TUBS, TRUCKS, AND THE LIKE, IN THE EVENT OF THEIR ATTAINING AN EXCESSIVE SPEED. COLIN OLIVER DEACON, Welgedacht, Transvaal, South Africa. Filed Mar. 20, 1929, Serial No. 348,581, and in the Union of South Africa Oct. 5, 1928. 6 Claims. (Cl. 238—121.)



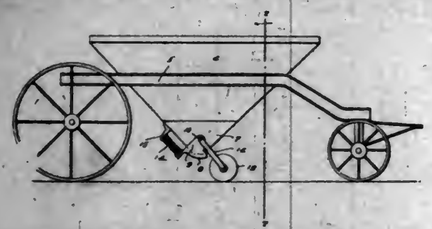
1. A railway permanent way or track, a portion of which is constructed with a transverse or lateral set or bend and an incline co-operating with said set or bend, whereby the vehicles are derailed when they acquire an excessive or uncontrollable speed, as set forth.

1,749,804. TOY WINDMILL. HUGH GATES DUGAN, Hinsdale, Ill. Filed Nov. 12, 1928. Serial No. 318,678. 6 Claims. (Cl. 170—80.)



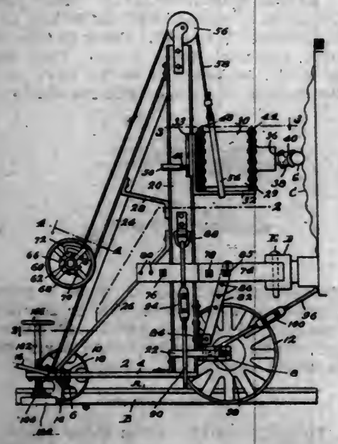
1. In a toy wind mill device, the combination of a wind wheel provided with a tail blade, a vertical mounting therefor, a horizontally extending frame upon which the vertical mounting is supported, said frame being adapted for support upon the sill of a window, a pulley located at the inner end of the frame, and power transmission connections between the wind wheel and the pulley, for imparting rotation to the pulley.

1,749,805. ROAD SURFACER. OTTO L. ELLIOTT, Westville, Okla. Filed June 10, 1929. Serial No. 369,908. 3 Claims. (Cl. 94—39.)



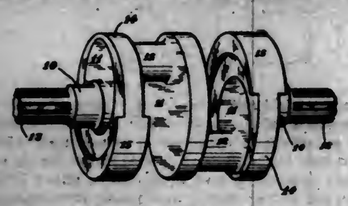
1. In a device of the class described, a wheeled hopper, a spout depending from the hopper, a valve plate movable over the opening of the spout, a pair of wings straddling the spout, means for rockably mounting the wings on the spout, pins projecting outwardly from the wings, a pair of arms, means for rockably mounting the arms on the spout one to each side thereof, a wheel having an axle journaled in the arms, said pins being in the path of swinging movement of said arms for opening the valve plate.

1,749,806. PORTABLE POWER APPLIANCE. PIUS A. FISHER, Kansas City, Mo. Filed May 26, 1928. Serial No. 280,929. 16 Claims. (Cl. 254—93.)



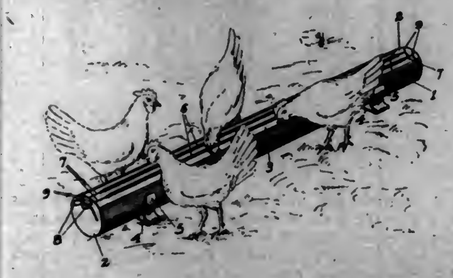
1. An appliance of the character described consisting of a truck, a mast mounted upon said truck, a cylinder mounted upon said mast and adapted to receive fluid under pressure, a piston head reciprocably mounted in said cylinder and adapted to be actuated by said fluid, and a piston rod secured to said piston head and projecting through one end of the cylinder.

1,749,807. CRANK SHAFT. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Apr. 22, 1926. Serial No. 103,953. 2 Claims. (Cl. 74—38.)



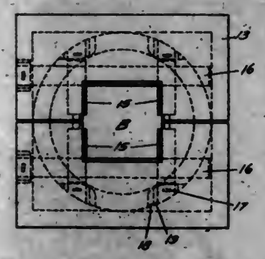
1. In a crank shaft assembly, a pair of oppositely extending crank arms, a ring secured to each of said crank arms having the axes of their outer edges coinciding with the main axis of the crank shaft, and a weight secured to each side of each ring diametrically opposite to the crank arms, so that the crank shaft may be placed in static balance by machining material from the weights on one ring while rotating on the main crank shaft axis and then placed in dynamic balance by machining equal amounts of material from one of the weights on each ring while the crank shaft is rotating on its main axis.

1,749,808. POULTRY FEED AND WATER TROUGH. OSCAR H. GREENE, San Jose, Calif. Filed Feb. 4, 1928. Serial No. 251,859. 2 Claims. (Cl. 119—61.)



1. A poultry feed device comprising a trough member having a longitudinal opening, and a helical tension spring extending lengthwise along the opening from end to end thereof and disposed in transversely spaced and parallel relation to the side edges of the opening.

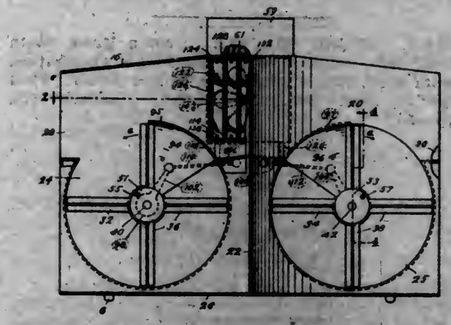
1,749,809. DRIVE BUSHING FOR ROTARY DRILLING MACHINES. EDGAR E. GREVE, Bellevue, Pa. Filed Dec. 24, 1925. Serial No. 77,672. 4 Claims. (Cl. 308—6.)



4. A drive bushing for rotary well drilling machines having a central stem receiving opening and a plurality of roller receiving openings, two roller drive stem contacting members carried thereby in said roller receiving openings, and each having a portion thereof projected into the stem receiving opening, one member arranged at right angles with the other member, and means for securing the contacting members in the roller receiving openings of the bushing including a detachable pin entered in a pocket of the bushing.

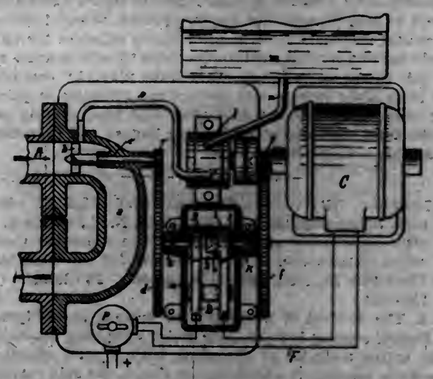
1,749,810. ROTARY SNOWPLOW. JAMES H. GRIFFIN and ELLSWORTH E. TIBBS, Clay Center, Kans. Filed May 21, 1927. Serial No. 192,319. 8 Claims. (Cl. 37—43.)

1. In a machine of the character described, a housing having inlets and oppositely-disposed discharge chutes communicating with said inlets, a rotor associated with each inlet, a valve associated with each inlet for partially closing communication between the latter and either of said discharge chutes, and independent mechanisms for operating each valve.



7. In a machine of the character described, a housing having an inlet and a discharge chute communicating with said inlet, means for forcing a blast of air through said discharge chute, and a container for discharging a lubricant into said air blast.

1,749,811. METHOD AND APPARATUS FOR MIXING FLOWING MEDIA IN EQUAL PROPORTIONS. HANS GROECK and FRANZ JORDAN, Berlin, Germany, assignors to Groeck Wasserverediung G. m. b. H., Berlin. Filed Mar. 8, 1928, Serial No. 260,210, and in Germany Mar. 11, 1927. 2 Claims. (Cl. 210—22.)

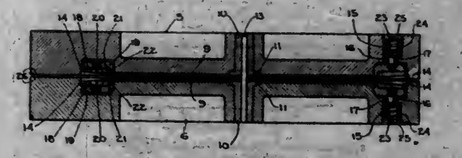


1. An apparatus for positively mixing always in the same relation two media one of which controls a motor determining the quantity of the second medium, comprising in combination with a motor having a starting circuit and with a conduit for the principal medium, a vane wheel in said conduit, and a switch mechanism in said starting circuit adapted to produce the proportionality between said vane wheel and said motor, said switch mechanism being opened after the closing of the circuit either by said motor or by said vane wheel influenced by said principal medium.

1,749,812. PROCESS FOR PULVERIZING MOUNTAIN-ASH BERRIES. PAUL GRUBE, Breslau, Germany. Filed Apr. 26, 1928, Serial No. 273,145, and in Germany Apr. 16, 1927. 2 Claims. (Cl. 167—50.)

1. A method for converting berries of the mountain-ash into a lasting powder-state, consisting in drying the berries in the air, rasping the same, exposing them to a temperature of about 70 to 80° C., cooling the material rapidly to a temperature of about 0° C. and grinding the material in a mill cooled to about 0° C.

1,749,813. PRESSING OR MOLDING MEANS AND METHOD. ERIC V. HAFFLING, Stratford, Conn., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed June 4, 1928. Serial No. 282,519. 14 Claims. (Cl. 18—5.8)



7. In combination, a die having an annular groove in one face, a matrix on said face, clamping means for said matrix, said clamping means disposed to enter said groove, sockets in the other face of said die, said sockets equally spaced and arranged in alignment with said annular groove, bolts extending from said sockets and engaging said clamping means to prevent its separation from the die, and coil springs disposed in said sockets and bearing against said bolts to resist movement of the clamping means toward the bottom of said annular groove.

1,749,814. PYROTECHNIC ARTICLE. FRANK S. HAMILTON, Boston, Mass. Filed Feb. 24, 1928. Serial No. 256,772. 7 Claims. (Cl. 102—20.)



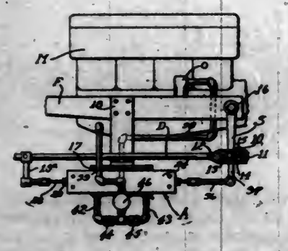
1. A pyrotechnic article comprising a body of hardened plastic cementitious material containing a flame coloring chemical.

1,749,815. PROPELLING MECHANISM FOR SHIPS. SIMSON HAMMERSTEIN, Rotterdam, Netherlands. Filed July 9, 1928, Serial No. 291,414, and in the Netherlands July 11, 1927. 2 Claims. (Cl. 115—39.)



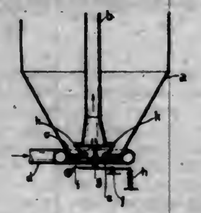
1. In ship's propelling mechanism, a longitudinal tunnel located in the bottom of the hold of a ship; a series of funnel-shaped suction tubes disposed in axial alinement within the tunnel and coacting with the latter to define a series of funnel-shaped water spaces intermediate the tunnel and the suction tubes, said spaces having inlets to permit entrance of outboard water; sets of turbine elements between adjacent ends of the tubes; a turbine shaft extending axially through said tubes and to which certain elements of the turbine sets are connected; and a propeller fixed to said shaft within the rearmost tube adjacent the rear end of the latter to act on the water which has already exerted work on the turbines, said propeller exhausting the water at the stern of the ship during normal forward movement of the ship.

1,749,816. STEERING MECHANISM. WILLIAM R. HENDAIX, Pacific Palisades, Calif., assignor of one-half to Howard Anderson Hyde, Santa Monica, Calif. Filed July 20, 1927. Serial No. 207,263. 15 Claims. (Cl. 180—79.2.)



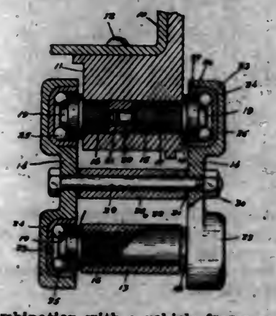
1. In combination, a steering mechanism for vehicles including a drag link and a steering arm operatively connected to the link for a limited relative movement between the two, an oil pump, and an actuating unit comprising a cylinder in circuit communication with the pump, a piston in the cylinder operatively connected to the drag link for moving the latter to effect steering of the vehicle, an inlet valve in the cylinder operatively connected to the piston for movement therewith and having a pair of ports through which oil from said pump is admitted to the cylinder at opposite sides of the piston, an outlet valve in the cylinder having a port controlled and normally closed by the piston, through which oil at one side or the other of the piston is adapted to be discharged according as the outlet valve is moved in one direction or the other to open its port to the cylinder at one side of the piston or the other, and an element for controlling the ports of the inlet valve and normally occupying a position in which the ports are open, the outlet valve and control element being operatively connected to the steering arm for movement thereby and responsive to movement of the arm to respectively close one of said inlet valve ports and open the outlet valve port so that oil from the pump will be free to enter the cylinder through the other inlet valve port to act against one side of the piston, while oil at the other side of the piston will be free to discharge from the cylinder through the outlet valve port, whereby the piston will be moved to actuate the drag link and will continue to actuate the latter so long as the outlet valve port and one of the inlet valve ports are maintained open by continued movement of the steering arm.

1,749,817. APPARATUS FOR SUPPLYING POWDERED FUEL TO FURNACES. EWALD HERMSDORF, Brunswick, Germany. Filed Oct. 3, 1928, Serial No. 310,053, and in Germany Sept. 7, 1927. 7 Claims. (Cl. 302—52.)



1. An apparatus for delivering finely divided material such as powdered fuel comprising a container, a conduit having an intake in the container, means for supplying air under low pressure directly below said intake including a port underneath the intake with its marginal edges in an inclined plane corresponding approximately to the angle of repose of the material being delivered, said port being far enough from the margin of said intake to permit only a thin layer of such material to flow across said port.

1,749,818. SPRING SHACKLE. GEORGE HUNT, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Nov. 21, 1927. Serial No. 234,693. 5 Claims. (Cl. 267—54.)

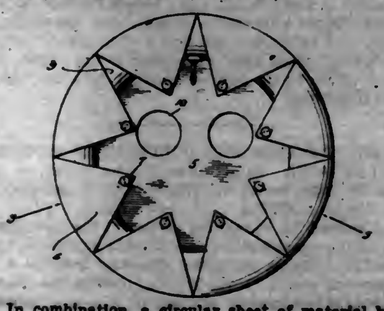


1. The combination with a vehicle frame and spring, of means connecting said spring to said frame comprising a spring hanger secured to and depending from said frame and having a transverse opening therein, a pair of pins extending into said opening at opposite sides of said hanger, one of said pins having a central cylindrical recess formed in its inner end, an integral central dowel formed on the inner end of the other of said pins, said dowel being telescopically received by said recess to insure axial alignment of said pins in said hanger opening, integral circumferential shoulders formed on said pins adjacent the outer ends thereof to abut against the sides of said hanger, and a pair of spaced complementary links pivotally connected at their lower ends to said springs and pivotally supported at their upper ends by said pins, said pins spacing said links from the sides of said spring hanger and preventing transverse movement thereof.

1,749,819. DRY-CHARGED BATTERY PLATE. WILLIAM SCOTT HUTCHINSON, Scarsdale, N. Y., assignor, by direct and mesne assignments, to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 13, 1925. Serial No. 43,405. 26 Claims. (Cl. 136—33.)

1. The method of preparing for storage and shipment a formed storage battery plate which comprises contacting the active material of the plate with a solid adsorbent material capable of adsorbing the liquid, the said material being of such character as not to stick to the plate.

1,749,820. BUOYANT BATHING DEVICE. HENRY A. JOHNSON, Northfield, Mass. Filed May 27, 1929. Serial No. 366,214. 3 Claims. (Cl. 9—17.)



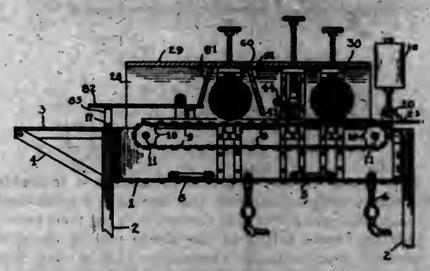
1. In combination, a circular sheet of material having a pair of openings and a plurality of triangular tabs extending outwardly from the periphery thereof, and an inner tube over which the tabs are adapted to be folded, and means for fastening the apexes of the tabs to the sheet.

1,749,821. LIFE-SAVING DEVICE FOR SUNKEN SHIPS. JOHN KARDOS, Perth Amboy, N. J., and DEZSO FISCHER, Jamaica, N. Y., assignors of one-fourth to Herman Fischer, Perth Amboy, N. J. Filed Feb. 10, 1928. Serial No. 253,288. 3 Claims. (Cl. 61—69.)



1. In a life saving device for sunken ships, a container capable of holding several persons, a plurality of bushings rotatively mounted on the inner face of the top of the container, handles projecting from the bushings to facilitate manual turning by persons within the container, rods threadedly engaged thru the bushings extending from the container interior to the exterior, supporting cables attached on the outer ends of the rods, and flanges on the inner ends of the rods for manually preventing rotation so that the rods may be adjusted by persons within the container for changing its inclination.

1,749,822. METHOD OF CLEANING ELECTROTYPE PLATES. WILLIAM RENDELL LAKEMAN, Rochester, N. Y. Original application filed Mar. 23, 1922, Serial No. 546,302. Divided and this application filed Feb. 11, 1924. Serial No. 691,880. 7 Claims. (Cl. 87—5.)



6. The method of cleaning electrotype plates coated with wax which consists in subjecting the plate, while it is in substantially the hot condition it is received from the casting pan, to kerosene, combining such kerosene with a flushing water after the kerosene has been utilized for cutting the wax on the heated plate, conveying the heated plate after it has been treated by the kerosene to a scrubbing point and through a heated area, scrubbing the plate while hot at this point, conveying the plate through a heated area from the scrubbing point to a flushing point, heating the flushing water with the kerosene therein, flushing the heated plate with said heated flushing solution, conveying the plate through a heated area to a second scrubbing point, and scrubbing the plate, flushing the plate and drying it thereafter.

1,749,823. GLASS AND METHOD OF PRODUCING IT. BERNARD LONG, Paris, France, assignor to Société Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Filed June 14, 1928, Serial No. 285,503, and in France July 2, 1927. 4 Claims. (Cl. 106—36.1.)

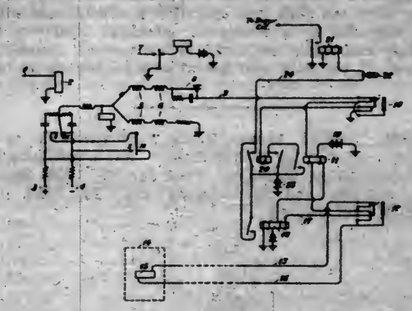
1. A violet-colored phosphate glass containing a relatively small percentage of titanium dioxide and being substantially free from silica.

1,749,824. METHOD OF BONDING RUBBER AND ARTICLES PRODUCED THEREBY. HUGH C. LOEB, Erie, Pa. Filed Apr. 5, 1923. Serial No. 630,178. 9 Claims. (Cl. 154—40.)



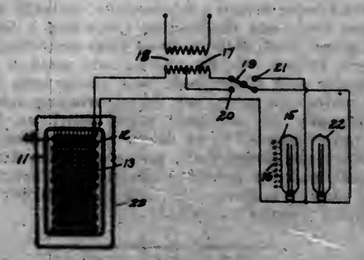
1. The method of bonding rubbers which consists in interposing between two layers of rubber of different qualities a plurality of layers made up of mixtures of the two different qualities of rubber and with a preponderance of each equality of rubber in the layers nearest that quality.

1,749,825. TELEGRAPH SYSTEM. DONALD P. LOYE, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 24, 1928. Serial No. 280,270. 3 Claims. (Cl. 178—2.)



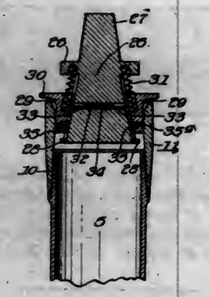
1. A telegraph line terminating at a central office, a loop circuit for extending said line, relay means in said loop circuit at said central office normally unoperated by the transmission of signals over said loop circuit but responsive to a change in the direction of current flow in said loop circuit, and signaling means at said central office controlled by said relay means.

1,749,826. ELECTRIC HYGROMETER. WALTER LUBACH, Berlin, Germany. Filed June 7, 1927, Serial No. 197,197, and in Germany June 8, 1926. 9 Claims. (Cl. 175—183.)



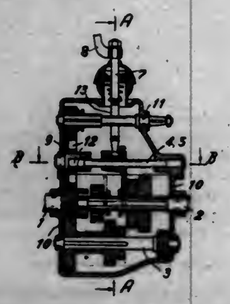
1. A moisture measuring device, including a pair of spaced conductors, and non-conducting material connecting the conductors, said material being impervious to moisture but upon which moisture can collect.

1,749,827. LETTING-IN TOOL. PATRICK H. MACK, Bradford, Pa., assignor to Oil Well Supply Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 1, 1923. Serial No. 655,017. 5 Claims. (Cl. 294—96.)



1. A letting-in tool for lowering devices into earth borings comprising a body having an upwardly tapered lower portion, means at the upper end of the body for attachment to a suspending means, slips slidably carried on the tapered lower portion of the body, means normally tending to move the slips into operative positions, said slips being expanded by a downward movement relatively to the body and being contracted by an upward movement relatively to the body, and lateral stop projections on the slips.

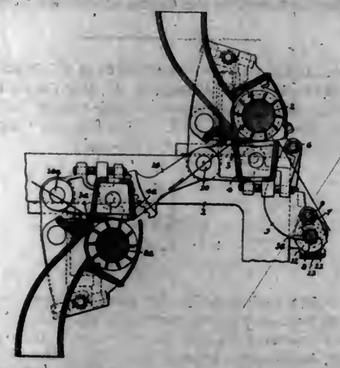
1,749,828. GEAR. ALBERT MAIER, Friedrichshafen, Germany, assignor to Zahnradfabrik Aktiengesellschaft, Friedrichshafen, Germany. Filed Jan. 18, 1929, Serial No. 333,361, and in Germany Jan. 26, 1928. 3 Claims. (Cl. 74—7.)



1. In a motor vehicle the combination of an ordinary change speed gear with an additional power shaft, said power shaft being situated substantially centrally above said speed gear, said combination comprising a driving shaft, a driven shaft, ordinary speed gears connecting said two shafts, striker rods for shifting said gears, a lever for operating said striker rods, said striker rods being situated above said gears, said lever extending substantially vertically, an additional power shaft, an intermediate wheel adapted to be driven by said speed gear and to drive said power shaft, said wheel being situated substantially opposite to said striker rods and having indentures adapted to receive the ends of said striker rods when shifted towards said wheel.

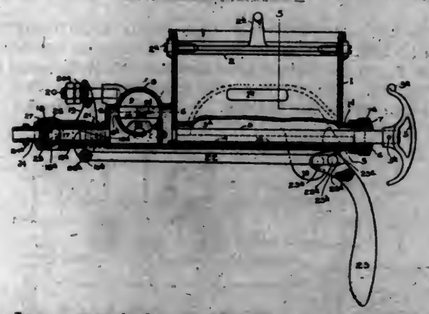
1,749,829. CLOTH-SHEARING MACHINE. ARTHUR C. MASON, Hawthorne, N. J. Filed May 20, 1929. Serial No. 364,511. 3 Claims. (Cl. 26—15.)

1. The combination of supporting means, coactive cloth-shearing and cloth-guiding instrumentalities therein, one of said instrumentalities being adjustable toward and from the other, an adjusting member for said one of said



instrumentalities arranged in said means, and a toggle connection connecting said member and the movable one of said instrumentalities.

1,749,830. GREASE FEEDER. WILLIAM L. MORRIS, Chicago, Ill. Filed Aug. 7, 1916, Serial No. 113,658. Renewed Feb. 11, 1929. 35 Claims. (Cl. 221—47.4.)



3. In a grease feeder; a grease receptacle, a rotatable slotted sleeve open at one end and having a longitudinal slot to communicate at the side thereof with the receptacle; and ejecting means fitting in the sleeve and in the slot and movable longitudinally therein so that it will discharge grease from the end of the sleeve when the slot is rotated out of register with the receptacle and to withdraw grease from the receptacle through the slot when it is rotated to open thereinto and the ejecting means is reversely moved.

1,749,831. PISTON RING. ALLEN W. MORTON, Baltimore, Md., assignor to The American Hammered Piston Ring Company, Baltimore, Md., a Corporation of Maryland. Filed May 14, 1928. Serial No. 277,672. 6 Claims. (Cl. 74—109.)



1. As a new article of manufacture a piston ring having oil drainage openings extending therethrough from its outer

to its inner face and a pair of grooves extending circumferentially of the ring, one groove to each side of the drainage openings and free of connection therewith, and inward of the respective side faces of the ring, the outer marginal corners of said openings and grooves forming scraping edges.

1,749,832. PISTON RING. ALLEN W. MORTON, Baltimore, Md., assignor to The American Hammered Piston Ring Company, Baltimore, Md., a Corporation of Maryland. Filed Dec. 7, 1928. Serial No. 324,461. 8 Claims. (Cl. 74—109.)

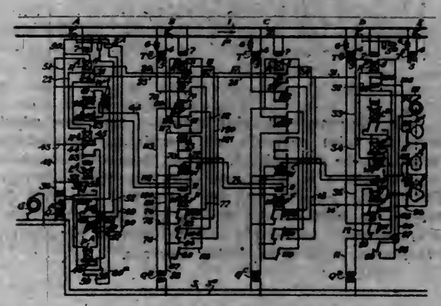


1. A piston ring structure comprising two resilient split ring elements, one ring encircling the other with their splits staggered, the inner ring having an outwardly projecting flange and the outer ring having an inwardly projecting flange, said flanges overlapping, and one only of said flanges engaging the body of the other ring.

1,749,833. PROCESS OF PRODUCING GUM FROM LOCUST BEANS. ADOLF MÜLLER, Munich, Germany, assignor to Sigismund Neuman, Zurich, Switzerland. Filed Nov. 28, 1928, Serial No. 322,592, and in Germany Oct. 8, 1928. 2 Claims. (Cl. 87—28.)

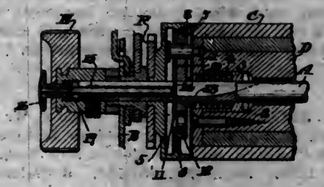
1. A process of manufacturing gum from locust-beans consisting in mixing the albumen of the beans with alkylised naphthalene sulphacid, and dissolving the mixture in water.

1,749,834. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. JOHN R. MYERS, Elizabeth, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 14, 1928. Serial No. 261,665. 8 Claims. (Cl. 246—39.)



5. Railway traffic controlling apparatus comprising a block of railway track having a plurality of successive track sections, a track relay for each section, a line relay, a source of energy, a pair of line wires controlled by a front contact of each said track relay normally connecting said source with said line relay, a device controlled by said line relay for governing traffic through said block, means effective when a train occupies the block for supplying train controlling current to each section in advance of said train over at least a portion of said line wires, and means for supplying track circuit current to the rails of each section in rear of said train.

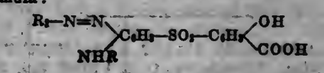
1,749,835. TYPEWRITING MACHINE. LEWIS C. MYERS, Freeport, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 10, 1927. Serial No. 225,323. 6 Claims. (Cl. 197—123.)



1. In a fractional line spacing mechanism for typewriting machines, the combination with an axle, of a platen freely journaled on said axle and including a head, a line space ratchet wheel journaled on the axle, and means for clutching the platen and wheel comprising studs immovably fixed to the platen head, a clutch member movable with the ratchet wheel and having a plurality of clutch-teeth, a clutch plate surrounding the axle and mounted on the studs for relative sliding movement thereon and provided with teeth for engaging the teeth of the clutch member, a single coil spring surrounding the axle and located between the platen head and the clutch plate for yieldably retaining said plate in clutched engagement with the clutch member, and manually operable means for moving the clutch plate against the tension of the single spring for disengaging said plate from the clutch member.

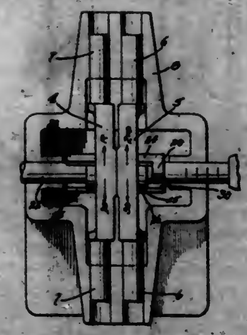
1,749,836. AZO DYESTUFFS DERIVED FROM AMINO-ACYLAMINO-SALICYL-DIPHENYLSULPHONES. WILHELM NEELMEIER, Leverkusen, and WINFRID HENTRICH, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 5, 1926, Serial No. 146,558, and in Germany Jan. 13, 1925. 4 Claims. (Cl. 260—90.)

1. As new products the mordant dyestuffs of the general formula:



in which R stands for hydrogen or an acidyl group, R_2 stands for a residue of a coupling compound, and the hydroxyl and carboxyl groups stand in ortho position to each other.

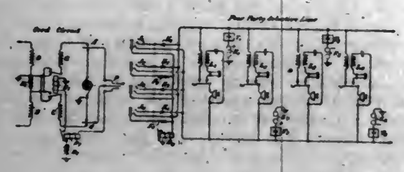
1,749,837. GEAR SHIFT. ARTHUR CORNWALL NICKELL, Jr., Waukesha, Wis. Filed Apr. 27, 1928. Serial No. 273,333. 3 Claims. (Cl. 74—58.)



1. In an automatic gear shifting mechanism, the combination with a shaft, of a selective device carried thereby,

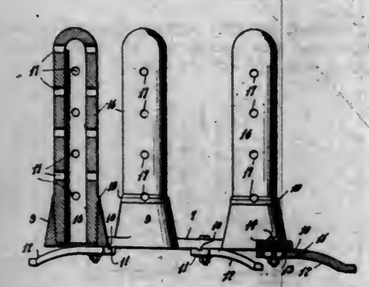
a clutch operating means including a clutch pedal for actuating the device, said device comprising two gear shifting slides, a selector, a cam carried by said selector for moving said slides into neutral positions, lugs carried by said selector for moving said slides into gear shifting positions, and flanges carried by said selector for positively holding said selector against movement of said slides into a reverse speed position when said slides have been moved into second or third speed positions.

1,749,838. SELECTIVE SYSTEM. ELIOT W. NILES, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 24, 1929. Serial No. 357,753. 6 Claims. (Cl. 179—86.)



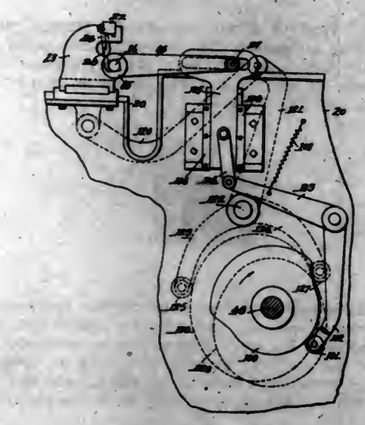
5. A line for a telephone system including a source of alternating current, two oppositely directed rectifiers, two oppositely polarized ringers, one corresponding to each rectifier, means for selectively transmitting current of said source through either of the rectifiers to operate its corresponding ringer, a battery, and means for connecting said battery to the line in one direction when one of the ringers becomes operated and for connecting said battery to the line in the opposite direction when the other ringer becomes operated.

1,749,839. AUXILIARY DRAFT ATTACHMENT. WILLIAM A. NOEL, Washington, D. C. Filed Jan. 5, 1927. Serial No. 159,095. 9 Claims. (Cl. 110—75.)



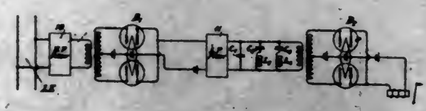
1. In a device for conducting and discharging air into a fuel bed, a base centrally cut away to leave a marginal portion, a plurality of draft conducting members carried by said marginal portion, and a plurality of radially projecting legs connected to the base.

1,749,840. LOOM FOR WEAVING FIBER REED. GUSTAF E. NORDSTROM, Gardner, Mass., assignor to American Fibre Corporation, Gardner, Mass., a Corporation of Massachusetts. Filed Aug. 17, 1928. Serial No. 300,342. 8 Claims. (Cl. 139—127.)



1. In a loom for weaving relatively stiff filling, a beat-up device comprising two relatively movable members, the upper member being fixed in said device and the lower member being movably mounted therein and being movable into and out of engagement with said upper member to form a filling guide.

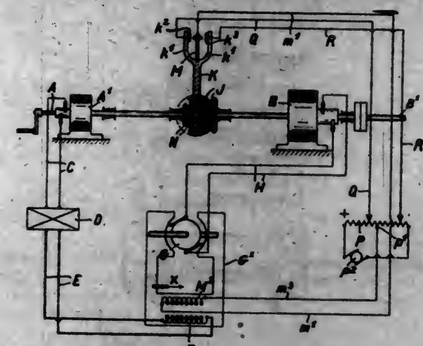
1,749,841. VOICE-OPERATED RELAY EQUIPMENT. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 2, 1926. Serial No. 120,215. 4 Claims. (Cl. 179—171.)



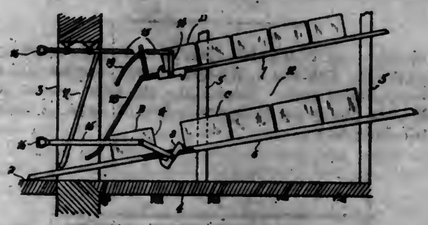
1. In a voice-operated relay circuit, a path over which alternating voice currents and continuous alternating currents may be transmitted, tandem detectors associated with said path, a relay controlled by the second detector, a transformer for coupling the output of the first detector to the input of the second, and means to render said transformer responsive only to currents corresponding to the envelope of the voice currents.

1,749,842. ELECTROMAGNETIC CONTROLLING APPARATUS. JAKOB PFRETZSCHNER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 8, 1928, Serial No. 276,187, and in Germany Jan. 12, 1927. 12 Claims. (Cl. 172—293.)

4. A controlling system having a controlling member adapted to perform a motion with low expense of power, a controlled member, a Leonard drive comprising a generator having a magnetic frame and an electric motor supplied by said generator for imparting a motion to said controlled member analogous to the motion of said controlling member, speed regulating means comprising an exciting winding on said magnetic frame and means for feeding said winding with a current proportional to the speed of said controlling member, and additional regulating means comprising a switch, a source of voltage and a circuit associated with said exciting winding and including said switch and said source of voltage for generating an additional induction in said magnetic frame, said switch being adapted to disconnect said source of voltage when the distances traversed by said controlled and controlling members are in proportional accordance and to connect said source of voltage upon a deviation of said distances.

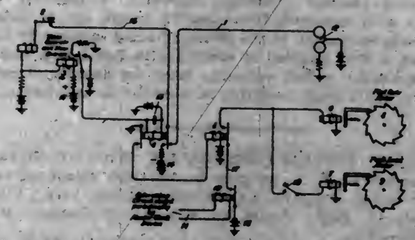


1,749,843. ICE-DELIVERY DEVICE. ROBERT HENRY ROARK, Waco, Tex., assignor to The Perfection Ice Scoring Machine Company, Waco, Tex. Filed Jan. 27, 1928. Serial No. 250,051. 5 Claims. (Cl. 193—40.)



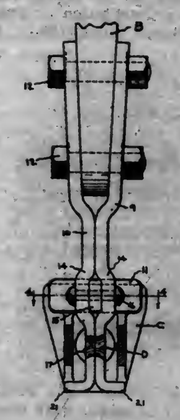
1. In an ice delivery apparatus having a plurality of superimposed inclined gravity chutes, with a common delivery passage; a movable slide for delivering ice from the lower end of the upper chute to the common passage, the lower end of said slide normally extending into the path of ice blocks on the lower chute, and capable of being raised by ice blocks passing out from the lower chute.

1,749,844. SYSTEM FOR FURNISHING INTERMITTENT TELEGRAPH SERVICE. LELAND C. ROBERTS, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 12, 1928. Serial No. 269,428. 5 Claims. (Cl. 178—2.)



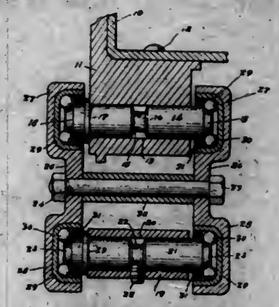
1. A telegraph line, a subscriber's circuit, a telegraph transmitter in said subscriber's circuit, means operated by the actuation of said telegraph transmitter for connecting said subscriber's circuit to said telegraph line, and a metering device controlled by the operation of said last mentioned means.

1,749,845. AUTOMATIC TRAIN-PIPE COUPLING. JOSEPH ROBINSON, New York, N. Y. Filed Apr. 26, 1926, Serial No. 104,765. Renewed Jan. 15, 1929. 8 Claims. (Cl. 285—58.)



7. A bracket for automatic train pipe connectors, comprising two complementary portions rigidly secured together, a cross bar secured between said portions intermediate their lengths, each of said portions below said cross bar being rounded on its front edge, whereby a curved seat is formed on the front edge of the bracket.

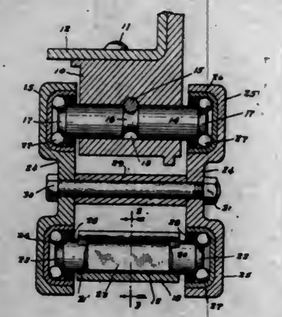
1,749,846. SPRING SHACKLE. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Nov. 11, 1927. Serial No. 232,584. 1 Claim. (Cl. 267—54.)



The combination with a vehicle frame and spring, of means connecting said spring to said frame comprising, a bracket having a portion positioned beneath the lower flange of said frame and having a portion contacting with the vertical web of said frame, means for securing said bracket to the vertical web and lower flange of said frame, an upper pin having a central portion of reduced diameter and having a flange formed thereon extending through said bracket with said flange in engagement with a side of said bracket, a tapered plug extending through said bracket and engaging the side walls of the reduced portion of said pin to restrain said pin against longitudinal movement, a pair of links enclosing the ends of said pin pivotally supported thereon, a lower pin having a central portion

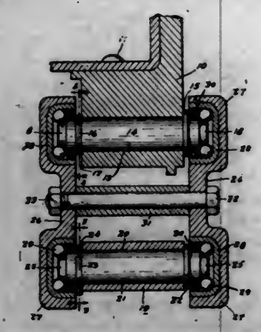
of reduced diameter extending through an eye in said spring pivotally supported by the lower ends of said links, the ends of said pin being enclosed by said links, and a tapered plug extending through said spring and engaging the side walls of the reduced portion of said lower pin to restrain said spring against longitudinal movement of said lower pin.

1,749,847. SPRING SHACKLE. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Nov. 11, 1927. Serial No. 232,585. 4 Claims. (Cl. 267—54.)



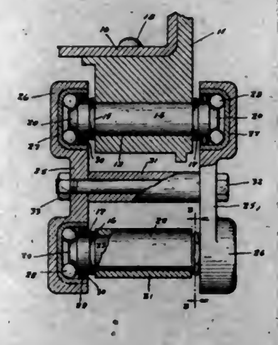
1. In a shackle for connecting a vehicle spring to a frame member, a pair of spaced links pivotally connected at their upper ends to said frame member, a shackle pin pivotally supported at its ends by the lower ends of said links, a longitudinal depression in said pin providing a flat face, and an eye formed in an end of said spring, a portion of the metal forming said eye being bent downwardly into said depression to abut against said flat surface for anchoring said pin against rotational and longitudinal movement whereby said links are restrained against frictional engagement with the sides of said spring.

1,749,848. SPRING SHACKLE. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Nov. 11, 1927. Serial No. 232,586. 7 Claims. (Cl. 267—54.)



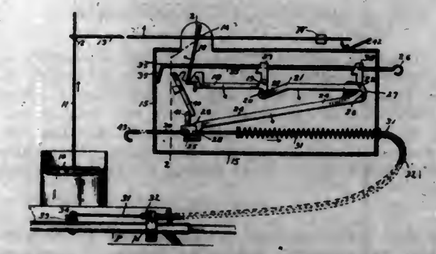
1. A spring shackle for connecting a vehicle spring to a frame spring hanger, comprising shackle pins extending through said spring and spring hanger, each of said pins having a transverse groove therein at one end and having an integral abutment at the other end thereof, clips seated in said grooves and abutting against adjacent sides of said spring and hanger, said abutments abutting against the other sides of said spring and spring hanger, and a pair of spaced links connecting said pins, said clips and said abutments anchoring said pins against movement transversely of said spring and spring hanger to restrain said shackle links from engaging said spring and hanger.

1,749,849. SPRING SHACKLE. DELMAR G. ROOS, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of Indiana. Filed Nov. 11, 1927. Serial No. 232,587. 5 Claims. (Cl. 267—54.)



1. In a shackle for connecting a vehicle spring to a frame spring hanger, shackle pins extending through said spring and said spring hanger, said pins being provided with circumferential grooves adjacent the sides of said spring hanger and spring, a pair of complementary links pivotally connecting the ends of said pins, said links being spaced from the sides of said hanger and spring, a plurality of curved keys positioned in said grooves, and clamping means for holding said keys in said grooves, said keys anchoring said shackle pins against longitudinal movement to restrain said links from frictional engagement with the sides of said hanger and spring.

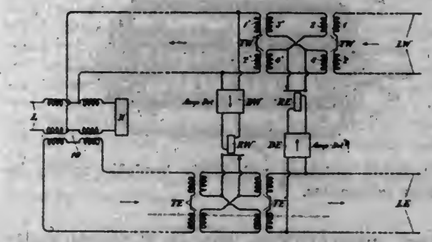
1,749,850. AUTOMATIC HEAT-MEDIUM-CONTROL DEVICE. THEODORUS WILLEM ALBERT RUSCHE, Oosterbeek, Netherlands. Filed Jan. 22, 1929, Serial No. 334,297, and in the Netherlands Dec. 31, 1927. 1 Claim. (Cl. 126—42.)



A float-operated shut-off device comprising the combination of means for controlling a heating medium, a spring-actuated member connected therewith, a plurality of levers with releasable interengaging means, one of which prevents movement of the spring-actuated member by the spring, a float adapted to contact with liquid in a vessel to be heated, a float releasing latch for another of said levers, and a single resetting member for all said levers.

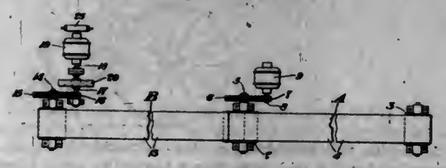
1,749,851. CIRCUIT CONTROLLER. HAROLD C. SILENT, Larchmont, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 18, 1928. Serial No. 255,480. 8 Claims. (Cl. 178—44.)

2. In a transmission circuit, a circuit controller therefor, said circuit controller including a plurality of transformer windings in said transmission circuit and a contact adapted to assume either an open or closed condition, and circuit connections for said transformer windings



and said contact to establish mutually aiding transmission paths through said windings with said contact closed and to establish said windings in opposing relation when the contact is open.

1,749,852. CONVEYER-DRIVING MECHANISM. FRANK E. SMITH, Scottdale, Pa. Filed June 14, 1929. Serial No. 370,873. 3 Claims. (Cl. 198—203.)



1. In combination a delivery conveyer unit and a receiving conveyer unit having more lift than said delivery unit, means for driving both of said units at substantially the same speed, and means connected with said receiving conveyer unit for storing energy during the operation of said units whereby said receiving unit will continue in motion at least as long as said delivery unit upon failure of the power for any reason.

1,749,853. COMBINED SALT AND PEPPER SHAKER. GARLAND B. SMITH, Oconomowoc, Wis. Filed Sept. 28, 1928. Serial No. 309,045. 4 Claims. (Cl. 65—57.)



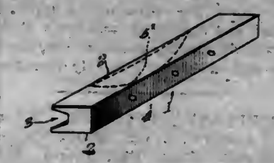
1. A combined salt and pepper shaker comprising a hollow body portion, a partition in said body portion dividing the same into a central compartment open at both ends and a surrounding compartment open only at its upper end, a top closure for said body portion forming a seal between said compartments, apertures in said closure forming a discharge for one of said compartments, and a valve controlled discharge opening at the bottom of said other compartment.

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1,749,854. MANUFACTURE OF ANHYDROUS MAGNESIUM CHLORIDE. KARL STAIB, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Firm. Filed May 6, 1926, Serial No. 107,269, and in Germany May 9, 1925. 10 Claims. (Cl. 23—91.)

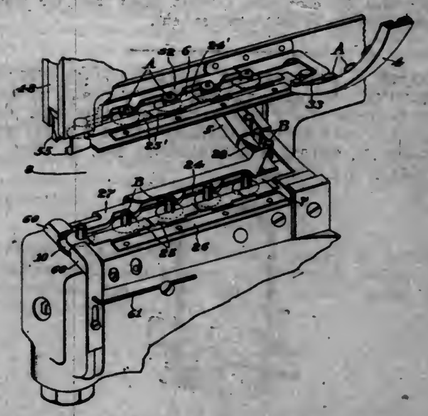
1. In the process of producing anhydrous magnesium chloride by interaction of magnesium oxide and chlorine, the improvement which comprises the steps of mixing magnesium oxide with a binder and a reducing substance and a substance capable of producing, when heated, a porosity corresponding at least to the increase in volume caused by the transformation of said magnesium oxide to solid magnesium chloride, forming pieces of said mixture, heating said pieces to a temperature sufficient to produce said porosity and causing the pieces to react with chlorine at a high temperature but below the melting point of magnesium chloride.

1,749,855. MEANS AND METHOD FOR MAKING PRINTERS' METAL FURNITURE. ASHTON G. STEVENSON, Chicago, Ill. Filed Oct. 8, 1928. Serial No. 311,188. 8 Claims. (Cl. 199—55.)



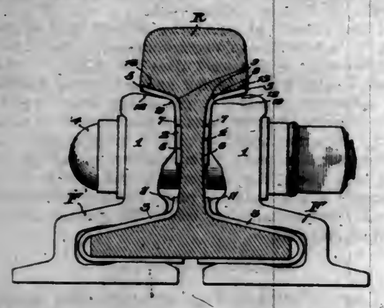
1. The herein described improvement in metal molds for producing hollow type furniture or base material having parallel side faces, which consists in making the mold slot wider at its rear middle portion than at its ends.

1,749,856. FASTENER-SETTING MACHINE. RAYMOND D. TAYLOR, Winnetka, Ill., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1927. Serial No. 221,224. 8 Claims. (Cl. 218—6.)



1. In a machine for setting fasteners, the combination of a setting mechanism, a track adapted to receive and guide a series of fastener members toward said mechanism, a raceway for conducting said fastener members to said track, said raceway meeting said track laterally at an abrupt angle, a reciprocating feeder for advancing a series of said members along said track step by step, operating mechanism for said feeder, and means arranged to be actuated by said operating mechanism for controlling the transfer of the fastener members from said raceway to said track.

1,749,857. INSULATED RAIL JOINT. WILLIAM PATON THOMSON, New York, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed May 6, 1929. Serial No. 360,956. 9 Claims. (Cl. 238—165.)



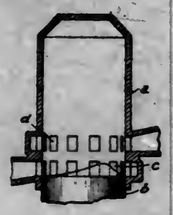
1. An insulated rail joint including the rail, the joint bar, and interposed insulating material having throughout its length less operative resistance to compression starting at the top of the radius of the upper inner corner of the joint bar and extending outwardly therefrom than has the adjacent insulating material starting at the top of said radius and extending inwardly therefrom.

1,749,858. AIRPLANE APPLIANCE. RICHARD E. S. TOOMEY and JAMES C. EVANS, Miami, Fla., assignors to S. Grover Morrow, Miami, Fla., trustee. Filed Apr. 24, 1928. Serial No. 272,472. 2 Claims. (Cl. 244—31.)



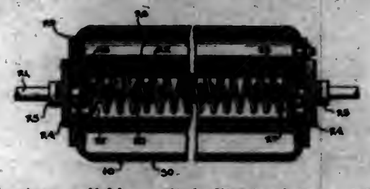
1. The combination with an airplane, of a heat transmitting chamber associated with the forward edge of the wing of said airplane, a compartment in advance of said chamber and in restricted communication with the latter, and means for conveying exhaust gases from the motor of said airplane to said compartment.

1,749,859. TWO-STROKE INTERNAL-COMBUSTION ENGINE. WILHELM ULRICH, Kiel, Germany, assignor to Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany, a Corporation of Germany. Filed Jan. 11, 1928, Serial No. 246,051, and in Germany Dec. 19, 1924. 2 Claims. (Cl. 123—65.)



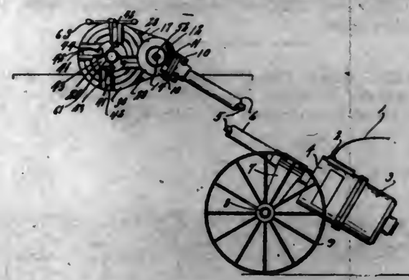
2. In a two stroke internal combustion engine, a cylinder, a piston in said cylinder, a plurality of annular scavenging air ports in said cylinder, a plurality of annular exhaust ports in said cylinder in a plane above said intake ports, an air supply channel surrounding said intake ports, said channel being disposed unsymmetrically of the cylinder axis, a baffle on said piston, said baffle being disposed unsymmetrically of the cylinder axis, by which unsymmetrical disposition of said air supply channel and of said piston baffle said scavenging air rises in the cylinder obliquely to the axis of the latter.

1,749,860. STONE BUFFER. ALFRED VAN DE SANDT, Los Angeles, Calif. Filed Feb. 27, 1926. Serial No. 91,128. 7 Claims. (Cl. 51—170.)



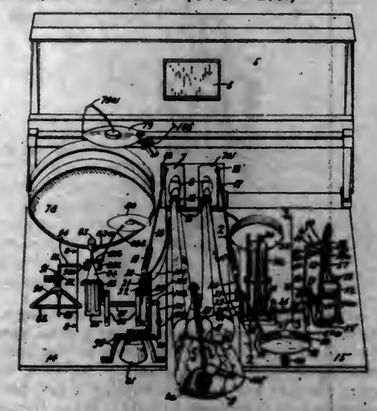
1. A stone polishing roll bodily bendable axially between its extremities.

1,749,861. PIPE CUTTER. WILLIAM W. VOSPER, Toledo, Ohio, assignor to The Toledo Pipe Threading Machine Co., Toledo, Ohio, a Corporation of Ohio. Filed Mar. 26, 1927. Serial No. 178,227. 2 Claims. (Cl. 81—190.)



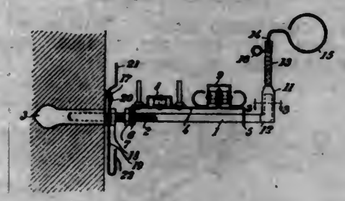
1. A pipe tool embodying a pipe embracing frame as a mounting for the tool, said frame having an arm, a pair of gears housed in said arm, a driving connection to one side of said gears, there being clutch connection between said gears, a control for said clutch connection from the opposite side of the arm from said drive connection, said frame providing a bearing radially of the gears and thereabout, a cutter carrier clear of said bearing and engaging one of said gears, and a cutter actuator on the bearing and providing a bearing carrying the carrier, said cutter actuator being in mesh with the other gear and extending past the carrier engaged gear and maintained clear thereof by the carrier as therebetween.

1,749,862. ONE-MAN ORCHESTRA DEVICE. FRANK WANEK, Doran, Minn. Filed June 17, 1926. Serial No. 116,628. 2 Claims. (Cl. 84—170.)



1. A dual musical instrument playing device for simultaneously playing a stringed instrument and a snare drum; said string instrument mounted in upright position, a snare drum mounted in proximity thereto in angular position, said device comprising a foot operated pedal, a rock shaft operatively connected to said pedal and having at one end an arm swingable across the strings of the string instrument, a string picker having resilient connection with the arm, a stand near the string instrument, a combined ratchet wheel and cam mounted on a stud in the stand and having a spring retarding their rotation, a pawl pivoted on the rocker arm holding the picker and operating the ratchet wheel, a pivoted arm in contact with the cam, a rod extending from the pivoted arm, and a string pressing device opened and closed alternately by the said rod and cam; said pressing device being slidably held by a set screw on an upright post back of the string instrument, and further means operated by said rock shaft to sound the snare drum.

1,749,863. SUPPORT FOR CURTAINS AND PORTIÈRES AND FOR THE RODS FOR THE SAME. KARL WERNER, Mannheim, Germany. Filed Nov. 1, 1928, Serial No. 316,433, and in Germany Nov. 4, 1927. 1 Claim. (Cl. 156—22.)



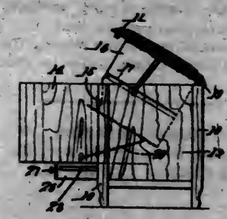
A support for curtains or portières, comprising in combination a strong hook having a threaded portion on the rear part of its horizontal arm designed to be screwed into a wall, a box of band iron removably and adjustably mounted on said horizontal arm by means of downwardly bent arms one at each end and having each a central hole for the curtain hook, the hole in the rear arm being internally threaded to be screwed on the threaded portion of said curtain hook, a counter nut on said threaded portion designed to secure said box in the adjusted position, sets of pulleys mounted on said box, a sleeve removably mounted on the vertical front end of said curtain hook, rearwardly directed claws on the lower end of said sleeve adapted to bear from the right and left against said curtain hook, the upper part of said sleeve being flattened, an eye for holding the curtain rod, a vertical shaft of said eye inserted into the upper flat part of said sleeve, a clamping screw for securing said shaft in the adjusted position, a bar having a hole near its inner end placed over the threaded portion of said curtain hook, a nut on said threaded portion for clamping said bar against the wall, a vertical bar adjustably fixed on the outer end of said horizontal bar, said vertical bar having a pointed offset upper end and a U-shaped lower pointed end bent forward and upward, said two ends adapted to hold the outer edge of a curtain close to the wall.

1,749,864. SHOE CONSTRUCTION. JOSEPH WEISS, Chicago, Ill. Filed June 4, 1929. Serial No. 368,240. 5 Claims. (Cl. 36—36.)



1. A device of the type described comprising a body portion, a heel, means for removably securing said heel to said body portion, said means comprising a stationary frame secured to said body portion, and a movable frame arranged to receive said heel and pivotally secured to said stationary frame.

1,749,865. SHOE AND HOSIERY BENCH. CURTIS F. WELLINGTON, Leominster, Mass. Filed Feb. 18, 1929. Serial No. 340,709. 3 Claims. (Cl. 312—174.)



1. As an article of manufacture, a bench-like structure having a top pivoted at one side to swing upwardly, a rack secured to the underside of the top and having stripe across it near the front to constitute a shoe rack, a pair of doors pivoted to the front of the structure and rods pivotally connected with said rack and with the two doors for opening the doors when the top and rack are swung upwardly.

1,749,866. CONTINUOUS KILN. CHARLES BURTON WINKES, Clapham, London, England. Filed Mar. 28, 1929, Serial No. 350,569, and in Great Britain Mar. 8, 1928. 4 Claims. (Cl. 25—142.)



1. In a continuous kiln, the combination of an annular rotary tunnel having a combined loading and discharge opening in its outer wall; driving means for said tunnel; means for heating the interior of the tunnel; an upper and a lower stationary annular platform enclosed in superposed relation within the confines of the tunnel, the upper platform embodying a circular series of sections capable of individual movement radially through said opening; an annular track encircling the tunnel in proximity to its outer wall; and a platform mounted opposite the said opening to travel with the tunnel along said track, each section of the upper platform adapted to support a removable goods carrier which is withdrawn with the corresponding section through said opening onto the travelling platform.

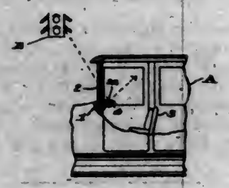
1,749,867. EXAMINING TABLE. HARRY S. ALLISON, Indianapolis, Ind., assignor to William D. Allison, Indianapolis, Ind. Filed Apr. 20, 1927. Serial No. 185,132. 2 Claims. (Cl. 45—50.)



1. The combination of a table and a head rest hinged to the table, with head plates secured to the under side

of the head rest, fixed arms on each plate extending substantially at right angles thereto to form stops by contact with the end of the table said arms curving thence in arcs of circles having their centers at the pivot axes of the hinges, the inner sides of the curved arms having ratched notches sloping toward the table, guide plates secured to the end of the table and extending below in the plates of the curved arms and having holes through which the respective arms pass; pawls pivoted to the guide plates having springs which press them normally into engagement with the ratchet teeth and manually operated means for moving the pawls out of engagement with the ratchet teeth to release the head rest for lowering.

1,749,868. AUTOMOBILE MIRROR. WILLIAM K. ANDERSON, Cleveland, Ohio. Filed Apr. 21, 1926. Serial No. 103,427. 2 Claims. (Cl. 45—97.)



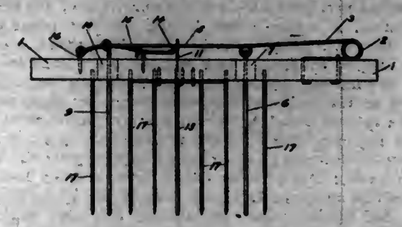
1. A device of the character described, including a supporting plate having a circular opening therein, a bracket arranged under the opening, a mirror plate, a hollow semispherical bearing member projecting from the mirror plate and extending partially through the opening in the supporting plate, said bearing member having an enlarged opening in the end thereof, a tension spring extending through the opening of the hollow bearing member and yieldably connecting the mirror plate directly to the bracket, whereby the bearing member is held in a frictional direct engagement with the edges of the opening in the supporting plate and has a universal adjustment therein, and a mirror on the mirror plate.

1,749,869. FISHING TOOL. ALBERT G. BAUMBACH, Anaheim, Calif. Filed Oct. 29, 1928. Serial No. 315,710. 3 Claims. (Cl. 294—106.)



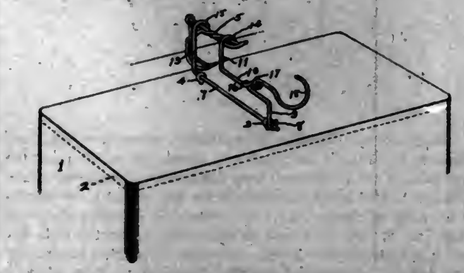
1. A fishing tool including a stem having a rack portion, opposed gripping jaws meshing with the rack portion, and a mount in which the jaws are pivoted spring acting on the mount to close the jaws, and bolts in the mount to engage the stem.

1,749,870. COMBINED MOLE AND RAT TRAP. CHARLEY M. BEGGS, Rock Falls, Ill. Filed June 12, 1929. Serial No. 370,195. 2 Claims. (Cl. 43—86.)



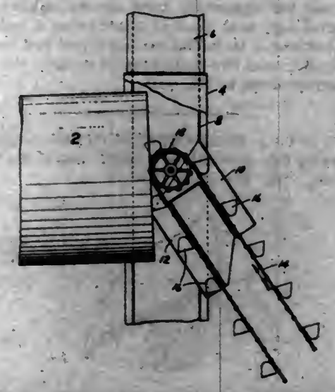
1. A combined mole and rat trap, comprising a base, a spring actuated loop supported from said base, means for holding said loop in depressed position, and a trigger, adapted for releasable connection with said means, and convertible from a position for a swinging movement transversely of the trap to a position for swinging longitudinally thereof.

1,749,871. COMPOUND HOOK. CHARLES W. BLISS, South Bend, Ind. Filed Mar. 5, 1929. Serial No. 344,545. 7 Claims. (Cl. 312—4.)



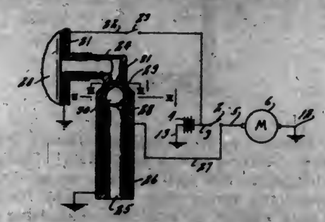
4. A wire hanger of the character described comprising a tongue element, a leg element above said tongue and integral therewith, said leg being provided with an integral hook and a second separate element suspension hook swivelly connected therewith, and an integral tongue detent depending from said leg element.

1,749,872. ELEVATOR. FRANK A. BROWNE, Wayne, Pa., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Feb. 18, 1928. Serial No. 253,963. 2 Claims. (Cl. 198—108.)



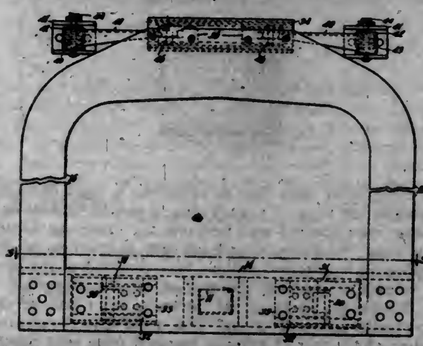
1. In combination, a casing, a drum, a plurality of tunnels forming passages into the casing, and a flexible bucket carrying member arranged to carry buckets through one of said tunnels into the casing and through the other of said tunnels out of the casing and adapted to raise material from a supply and discharge it within the drum.

1,749,873. CARBURETOR AIR CONTROL. WALTER P. COUSINO, Detroit, Mich. Filed Dec. 2, 1926. Serial No. 152,237. 8 Claims. (Cl. 123—179.)



1. A carburetor having an air supply, a normally closed closure therefor operable by motor suction draft in the carburetor, and a solenoid acting upon said closure for resisting opening thereof.

1,749,874. CAR CONSTRUCTION. GEORGE E. COUTANT, Decatur, Ill. Filed Dec. 5, 1928. Serial No. 323,807. 10 Claims. (Cl. 105—10.)



1. In a railway car, the combination with a buffer platform and a diaphragm face plate; top and bottom pairs of arms for supporting said platform and face plate; means for pivotally supporting each pair of arms on the car proper for swinging movement in reverse directions; and means pivotally connected to said top arms, having a sliding connection with the face plate, and means pivotally connected to the bottom pair of arms having sliding connection with the platform.

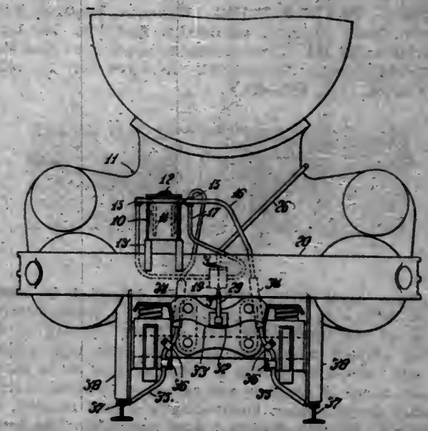
2. In a railway car, the combination with a buffer platform member and a diaphragm face plate member; of arms connected to the car proper for pivotal movement in horizontal planes, said arms having a sliding pivotal connection with said members.

1,749,875. VALVE-LIFTING DEVICE. ELI S. DAVIS, Kansas City, Mo. Filed Dec. 8, 1926. Serial No. 152,867. 7 Claims. (Cl. 29—86.3.)



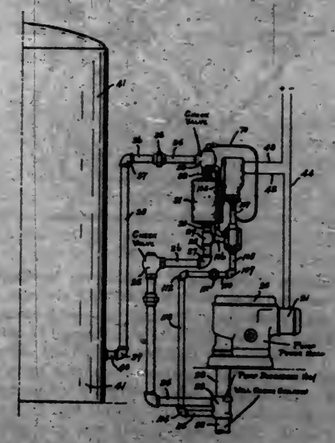
2. A tool comprising semi-tubular hinged members having cleft ends and a semi-tubular lever having fixed pivotal mounting in one of the members and provided with freely movable means for bearing frictionally against the other member adjacent its cleft end to space the members, the lever being seatable on the surface of one of the members for limiting the pivotal movement of the lever.

1,749,876. RAIL AND WHEEL FLANGE OILER. CLYNE L. EMERSON, Oak Park, and PAUL E. BURTRELL, Maywood, Ill. Filed Oct. 5, 1928. Serial No. 310,484. 7 Claims. (Cl. 184—3.)



1. A rail and wheel-flange oiler comprising, in combination with a locomotive-truck frame, a lubricant holding reservoir, a chambered member arranged in communication with a pressure medium supply and having a pair of ports provided with valves closing in the direction of medium flow, conduits between the ports and track rails and having communication with the reservoir adapted to withdraw the lubricant therefrom when the pressure medium flows through said conduits, and means pivotally secured to said member to swing laterally and having portions adapted to separately move the valves off their seats and having yielding operative relation with the truck frame to be oscillated thereby.

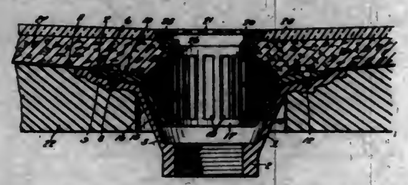
1,749,877. WATER SYSTEM. HARRY G. FISHER, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 24, 1925. Serial No. 71,211. 8 Claims. (Cl. 103—6.)



1. A water system comprising, in combination, a pump, a pressure storage tank, a motor for operating the pump,

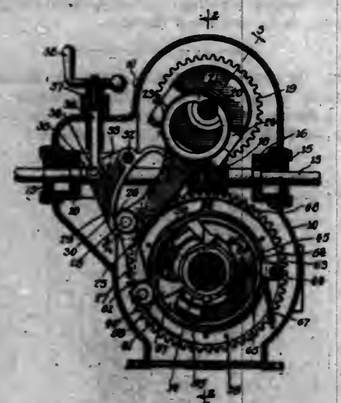
an auxiliary air receiving tank connected between the pump and storage tank, means for causing the motor to operate and stop in response to certain low and high pressures, respectively, in the storage tank, and valve mechanism directly controlled by said means for causing the auxiliary tank to be drained and to receive air while the pump is idle, and for causing the auxiliary tank to be connected only with the pump and storage tank when the pump is operating.

1,749,878. DRAIN FITTING. WELLS S. FLEMING, Portland, Oreg. Original application filed Feb. 10, 1926, Serial No. 87,281. Divided and this application filed May 17, 1926, Serial No. 109,492. Renewed Oct. 11, 1928. 2 Claims. (Cl. 182—81.)



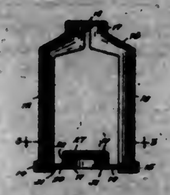
1. In a drain fitting of the class described, in combination with a basin-body provided with a circumferential flange at the top and having a drain opening at the bottom adapted to be connected with a drain pipe, a cover for said basin-body having a flange adapted to be seated on said flange of the body and having an integral, central, tubular, perpendicular, longitudinally slotted member, extending to the predetermined floor level above the cover, the cross section of the interior of the tubular member corresponding to the opening of the drain body, and a flat grille plate closing the top of said member and substantially flush with the surface in which the drain is fitted.

1,749,879. TRANSMISSION MECHANISM. RAY C GODDARD, Wheaton, Ill., assignor, by direct and mesne assignments, to Combustioneer, Inc., Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1928. Serial No. 253,832. 10 Claims. (Cl. 74—53.)



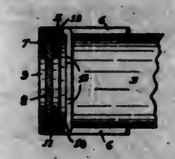
1. A unitary transmission mechanism having, in combination, an enclosing casing, a driving element, a driven element, said elements extending into said casing, an eccentric having an arm operatively connected to said driving element, a reciprocatory member operatively connected to said driven element for rotating the latter upon being reciprocated, said member being pivotally connected to said arm, and a fixed link having an arcuate slot for guiding the movement of the pivot between said arm and said member, said link being adjustable to dispose the slot at different angles to said member so as to vary the component of the thrust from said arm along said member.

1,749,880. CASTER. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 5, 1927. Serial No. 237,661. 4 Claims. (Cl. 16—39.)



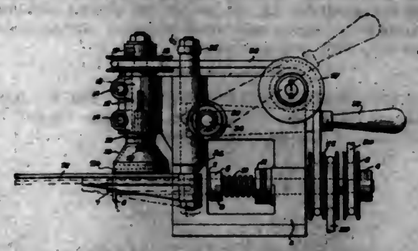
1. In a support, a floor engaging element including a pintle, pintle receiving means adapted to be secured to a furniture leg or the like and including an apertured base, a pintle retaining spring ring, and means for retaining said ring with respect to said base comprising a pocket forming element secured to said base and adapted to confine said ring laterally, and a series of retaining lugs bent inwardly from said element and adapted to confine said ring axially.

1,749,881. LUMINOUS ELECTRIC-LIGHT SWITCH. MARCUS HOLCOMB, Coraopolis, Pa. Filed Nov. 14, 1927. Serial No. 233,121. 1 Claim. (Cl. 200—167.)



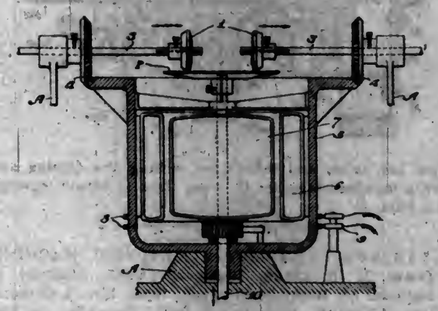
In an electric light switch including a light operating member in the form of a push plug, a slotted thimble open at both ends thereof and adapted for clamping engagement with the forward end of said push plug, a disk provided with a luminous front face mounted in the outer end of said thimble a transparent member mounted in said thimble for covering the luminous front face of said disk, means for spacing said disk from said transparent member, and a pair of tongues stamped from said thimble in the formation of the slots in the latter and bent to engage said disk for securing the latter and said transparent member in position in said thimble.

1,749,882. TRIMMING MACHINE. PENROSE R. HOOPER, Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Feb. 26, 1926, Serial No. 90,724. Renewed Aug. 14, 1928. 7 Claims. (Cl. 164—63.)



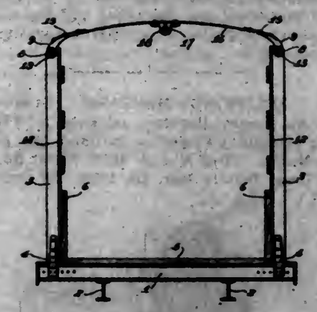
1. In a trimming machine, in combination, a disk having a circular cutting edge lying in its outermost periphery, said disk being mounted for rotation on an axis perpendicular to a plane through said cutting edge, a cup having a circular cutting edge lying in its inner periphery, said cup being mounted for rotation on an axis perpendicular to a plane through said cutting edge, said cup and disk being so mounted with respect to each other that said planes intersect in a line which forms a chord of both circular cutting edges.

1,749,883. ROLLING-MILL-DRIVING SYSTEM. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 20, 1926. Serial No. 149,703. 5 Claims. (Cl. 80—19.)



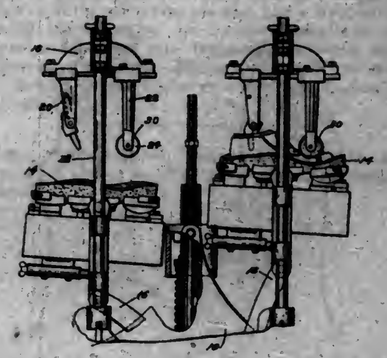
4. In a rolling mill comprising oppositely disposed rolling elements between which the work of rolling is carried out, a driving system comprising a prime mover having a pair of elements, both free to move and between which a propulsive effort is exerted, and connecting means between each one of said rolling elements and a corresponding driving element.

1,749,884. VEHICLE TOP STRUCTURE. WILLIAM G. MAYER, Pittsburgh, Pa. Filed Jan. 14, 1927. Serial No. 161,171. 2 Claims. (Cl. 296—104.)



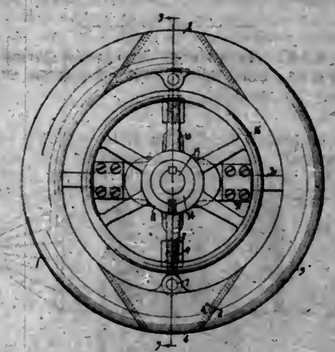
1. In a vehicle body structure, a frame, a plurality of structural section side braces secured to the frame at spaced intervals along the sides thereof, the braces on each side being provided adjacent their upper ends with openings aligned longitudinally of the frame, top brackets each having a slotted portion engaging said structural section and provided with an opening aligned with that of the brace, readily removable tubular members disposed in said openings for connecting the brackets to the braces, and top braces connected to said brackets extending inwardly from each side over the body.

1,749,885. SHOE-PRESSING MACHINE. JAMES W. NASH, Newark, N. J., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 12, 1925. Serial No. 36,654. 7 Claims. (Cl. 12—127.)



1. A sole-pressing machine having, in combination, a sole pressing pad, and a shoe upper engaging member provided with a cover arranged to creep on the said member under the pressure of the shoe upper.

1,749,886. COLLAPSIBLE TIRE-BUILDING FORM. JOHN E. PALMER, Akron, Ohio, assignor to The Summit Mold & Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 23, 1927. Serial No. 221,483. 12 Claims. (Cl. 154—9.)

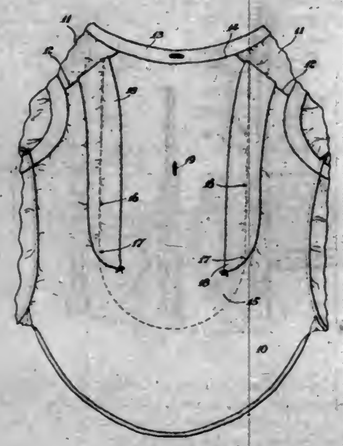


1. A collapsible tire building form, comprising an endless form body divided into a plurality of sections, certain of said sections being major sections and other sections being key sections and tapered outwardly of the form, the sections having permanent end sliding and interlocking connections, and mechanism at the center of the form to withdraw the key sections, the major sections being moved toward the axis of the form by the inward movement of the key sections.

1,749,887. DRESS SHIRT. EDWARD J. QUIGLEY, Newark, N. J. Filed May 17, 1927. Serial No. 191,976. 1 Claim. (Cl. 2—115.)

A shirt comprising a body piece extending continuously across the front of the shirt, shoulder sections stitched to the upper end of the body piece at the sides thereof, a bosom section on the outside of the body piece and having its side edges stitched to the body piece by stitching terminating above the lower end of said bosom piece whereby

the lower part of the bosom piece is free from the body piece, separate reinforcing strips each stitched to the reverse side of a respective shoulder piece and extending downward and terminating above the bottom of the bosom piece, said reinforcing strips lying flat on the underside



of the body piece and extending on opposite sides of the respective bosom stitch lines, said bosom stitch lines extending through said reinforcing strips, and stitching extending around the side and bottom edges of the reinforcing strips and connecting said strips to the body piece independently of the bosom stitch lines.

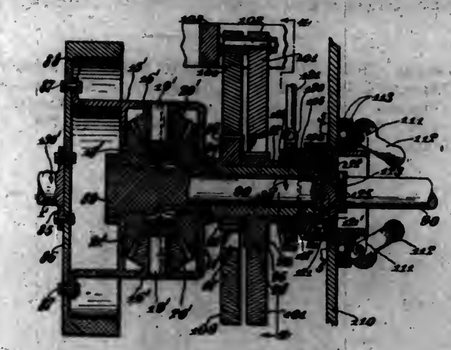
1,749,888. HAMMOCK. ELIZABETH GRIMM REEDER, Chicago, Ill. Filed Nov. 7, 1927. Serial No. 231,424. 4 Claims. (Cl. 5—122.)



1. A hammock construction comprising a hammock, a casing, a roller rotatively mounted in said casing, means maintaining said roller under a yieldable tension normally acting to rotate it in one direction, flexible supporting means for one end of the hammock, and means connecting the other end of the hammock with said roll, so that upon release by a forward pull, of the first mentioned end of the hammock said roll will be automatically rotated to wind the hammock upon it.

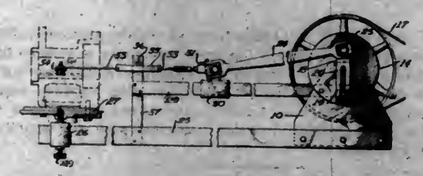
1,749,889. DIFFERENTIAL TRANSMISSION MECHANISM. EDWARD C. REID, Philadelphia, Pa. Filed June 12, 1928. Serial No. 284,785. 21 Claims. (Cl. 74—34.)

1. The combination of a driving member, a member to be driven, power transmission means interposed between the two, the said means including an element rotatable relatively to the said members, means including members oscillatable by the rotation of said element whereby relative rotation of said element is adapted to create a reactive force to impose a force upon the member to be driven to



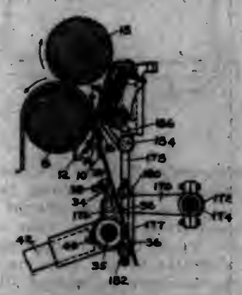
drive the same, and means for locking the driving and driven members together to cause them to rotate together as a unit.

1,749,890. TRIPLE-VALVE-LAPPING MACHINE. JAMES R. RICKETTS, Richmond, Calif., assignor to National Air Brake Service, Inc., Reno, Nev., a Corporation of Nevada. Filed Dec. 5, 1927. Serial No. 237,959. 11 Claims. (Cl. 51—57.)



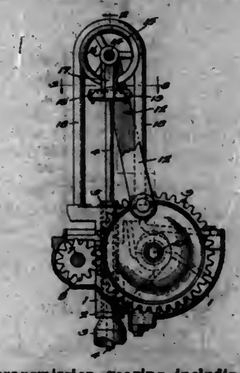
1. A machine of the character described comprising a revoluble crank, means for supporting a triple valve in operative position relative to the crank, a lapping tool engageable with the slide valve seat in the triple valve, an operative connection between the crank and the lapping tool for reciprocating the latter over the slide valve seat in contact therewith, and means for shifting the lapping tool laterally in opposite directions at opposite ends of its stroke.

1,749,891. SPLITTING MACHINE. GUSTAV ADOLF SCHETTLER, Leeds, England, assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Mar. 4, 1927, Serial No. 172,754, and in Great Britain Mar. 26, 1926. 35 Claims. (Cl. 149—11.)



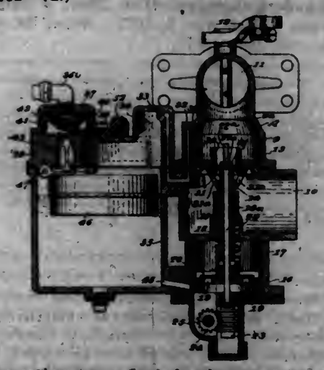
34. In a machine for cheeking hides and skins, a cutter, a bed roll for supporting a hide or skin for operation by the cutter, means for pressing the hide or skin against the bed roll operative for smoothing and spreading the hide or skin prior to the action of the cutter, said means comprising a member having a concave surface corresponding to the convex surface of the bed roll but so located that its upper end is nearer to the bed roll than its lower end, whereby the hide or skin is subjected to gradually increasing pressure as it passes upwardly between the bed roll and the pressing means.

1,749,892. POWER-TRANSMISSION GEARING. DANIEL R. SCHOLES, Chicago, Ill., assignor to Aermotor Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 10, 1928. Serial No. 325,034. 8 Claims. (Cl. 74—14.)



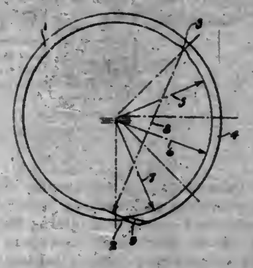
1. Power transmission gearing including two rotating members; two co-extensive and symmetrically related pitmen, each rotating member having a pitman individual thereto and in pivotal connection at one end therewith; a cross-head common to both pitmen and having pivotal connection therewith at the other ends thereof; a peripherally grooved sheave assembled with the cross-head and co-axial with the ends of the pitmen that have pivotal connection with the cross-head; guide rods received in the peripheral groove of the sheave, there being lateral clearance between the rods and the sides of the groove permitting canting of the sheave and permitting relative movement of the latter pitmen ends in the general upright plane of their movement without impairing the guiding function; and a load rod extending along and between the pitmen and having flexible connection with said cross-head defining an axis of relative movement between the load rod and cross-head that is angular to the general upright plane of movement of the latter pitmen ends.

1,749,893. CARBURETOR. WILLIAM SCOTT, Medford, Mass. Filed Nov. 2, 1927. Serial No. 230,639. 3 Claims. (Cl. 261—72.)



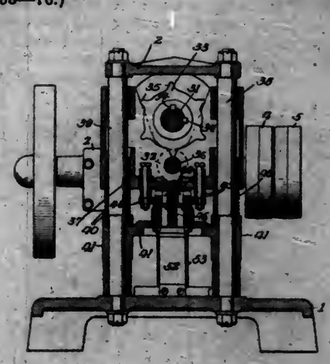
1. In a carburetor, a float chamber, a mixing chamber, a suction passage from the mixing chamber to the top of the float chamber for maintaining a partial vacuum in the latter by engine suction, an air intake passage, a movable air valve interposed between said intake passage and mixing chamber, a fuel nozzle carried by said air valve and having its discharge orifice above the level of fuel in said float chamber, an air port or ports leading through said air valve from the air intake passage, and a Venturi tube carried by the air valve and communicating with said air ports, said Venturi tube surrounding the fuel nozzle and constructed to provide during operation of the engine greater suction at said discharge orifice than in said suction passage.

1,749,894. PISTON RING. JASPER H. STANFIELD, Muskegon, Mich. Filed Sept. 30, 1929. Serial No. 396,069. 3 Claims. (Cl. 74—109.)



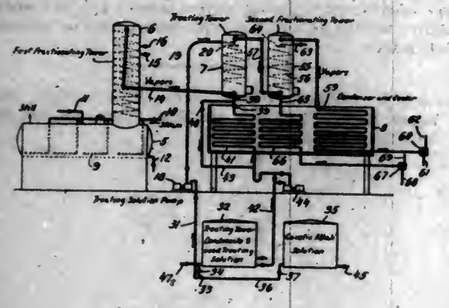
1. A piston ring of substantially circular form, including one ring segment having a common radius and a second ring segment integral with and extending from the first ring segment of a varying and increasing radius, said piston ring having a parting at one side at the free end of said second named segment of the ring, said parting being in the arc of a circle having a center about which said second segment of the ring bends when the ring is compressed to circular form for entrance into a cylinder.

1,749,895. PISTON-RING-SPRING MACHINE. OTTO E. SEEKELY and RUSSELL H. JOHNSON, Holland, Mich. Filed Sept. 23, 1927. Serial No. 221,440. 14 Claims. (Cl. 153—76.)



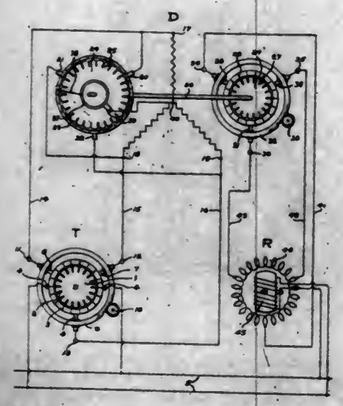
1. A machine for making piston ring springs comprising a base, a frame, rollers in said frame for feeding material to the machine, means for rotating one of said rollers, a forming roller, means driven by said first named means for driving the forming roller, an upper movable die, a stationary lower die, an operating roller cooperating with said forming roller for reciprocating said upper die, and means arranged in said upper die for cutting the material after it has been crimped.

1,749,896. MANUFACTURE OF LUBRICATING OIL. GEORGE H. TABER, Jr., Rye, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Original application filed Jan. 14, 1925, Serial No. 2,262. Divided and this application filed May 26, 1928. Serial No. 280,790. 2 Claims. (Cl. 196—36.)



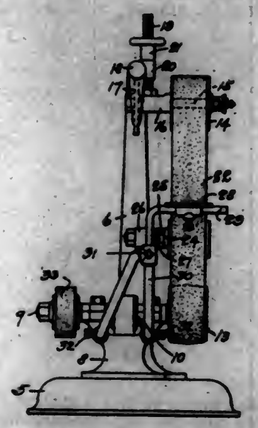
1. In the manufacture of lubricating oils the improvement which comprises continuously vaporizing lubricating oil constituents from a stock containing the same, continuously taking off the lubricating oil vapors and subjecting them as such to treatment with a caustic alkali solution, maintaining the temperature in this treatment to condense a minimum of lubricating oil constituents, continuously taking off lubricating oil vapors from this treatment free from alkali, and condensing a lubricating oil fraction from the vapors taken off from the alkali treatment, whereby said condensed lubricating oil fraction is subjected to the alkali treatment in the vapor phase but condensed out of contact with the alkali.

1,749,897. REDUCING HYSTERESIS EFFECTS IN ELECTRICAL APPARATUS. HARRY L. TANNER, Brooklyn, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed May 12, 1926. Serial No. 108,582. 14 Claims. (Cl. 172—239.)



1. In means for reducing the effects of hysteresis in electrical apparatus having relatively moving elements, normal connections between said elements and to a source of electromotive force, and successive additional connections between said elements whereby a varying additional electromotive force is impressed upon successive portions of one of said elements.

1,749,898. ABRADING MACHINE. WALTER B. WARD, Memphis, Tenn. Filed Apr. 17, 1926. Serial No. 102,604. 2 Claims. (Cl. 51—135.)



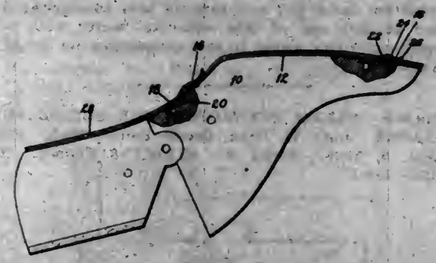
1. An abrading machine, comprising a shaft bearing bracket belt abrading mechanism disposed above said bracket, arms mounted in said base and adjustably extending laterally therefrom at right angles to the line of said shaft bearings, each of said arms being bent upward substantially at right angles to said lateral portion thereof, one of said upward extensions being hollow and vertically disposed, and the other thereof inclined toward said vertical one and secured to the same near the upper end thereof as a brace, a rod disposed in said vertical extension and longitudinally adjustable with reference thereto, means for locking said rod with reference to said extension, a lateral extension from said rod, and a steady rest mounted on said extension.

1,749,899. REENFORCEMENT FOR TIRE BEADS. STERLING W. ALDERFER, Akron, Ohio, assignor to National Standard Company, Niles, Mich., a Corporation of Michigan. Filed Apr. 5, 1927. Serial No. 181,096. 1 Claim. (Cl. 245—1.5.)



A bead construction for pneumatic tires comprising a body of rubber, and a reenforcement comprising a plurality of independent parallel, longitudinal wires embedded therein and unconnected except for the rubber, each of said wires being arranged in a plurality of spaced convolutions about the bead.

1,749,900. INSOLE-HOLDING DEVICE. MAURICE VINCENT BRESNAHAN, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1928. Serial No. 293,911. 5 Claims. (Cl. 12—141.)



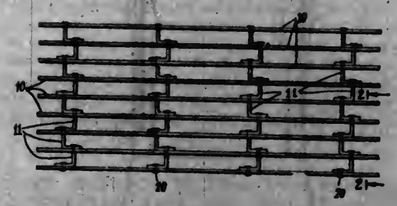
1. A last having a resilient insole holding member attached by its rear end to the bottom of the last, and extending forwardly along the last bottom.

1,749,901. EXPANDING BRAKE. NELSON R. BROWNYER, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Dec. 5, 1927. Serial No. 237,721. 6 Claims. (Cl. 188—234.)



1. In an expanding brake, a pivoted brake shoe having transverse shoulders, a brake block, transverse cleats resting against said shoulders having portions that overlap the end portions of said block, lugs secured to said shoe inwardly of said block and having portions that overlap the ends of said cleats.

1,749,902. FLOOR GRATING. HERBERT H. BUNKER, Jersey City, N. J., assignor to Kerlow Steel Floor Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 4, 1929. Serial No. 352,443. 7 Claims. (Cl. 94—30.)



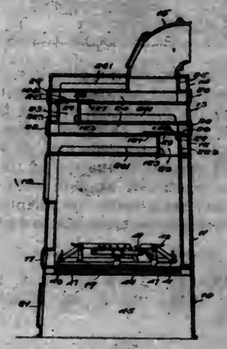
1. A floor grating comprising a plurality of longitudinal girders and members laterally spacing the girders from each other, there being a plurality of lateral rows of spacing members with the successive spacing members of each lateral row connected together, each of said spacing members having a projection engaging with a contiguous girder and the next succeeding spacing member in the same lateral row.

1,749,903. SHEET-METAL FASTENING. CHARLES D. CANNON, Cleveland, Ohio. Filed May 12, 1928. Serial No. 277,234. 2 Claims. (Cl. 85—41.)



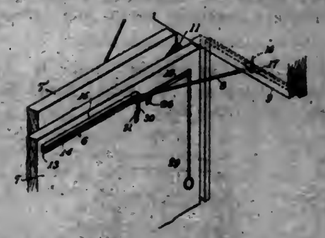
1. A sheet metal fastening, comprising a screw-threaded metallic element having a tool-engaging head and having a thread starting at the point with a very steep pitch, the pitch decreasing toward the head to provide a spacing between threads equal to sheet metal gauge.

1,749,904. HEATER. THOMAS D. CASSELLY, Chicago, Ill., assignor to Weil-McLain Company, Michigan City, Ind., a Corporation of Delaware. Filed Apr. 9, 1928. Serial No. 268,515. 1 Claim. (Cl. 122—156.)



In a boiler, the combination with horizontal water-containing sections having horizontal flues therebetween and provided with cleanout doors, said sections being provided with flue openings alternately disposed on diametrically opposite sides of the boiler, each flue opening being of arcuate formation concentric with the center of the boiler; and detachable baffle plates, insertable through the cleanout doors for said flue openings, each said plate being also of arcuate formation and arranged to cover the innermost side of each arcuate flue opening whereby to leave relatively narrowed flue openings at the maximum distance from the centers of the sections and thereby insure more uniform distribution of the products of combustion back and forth between the sections.

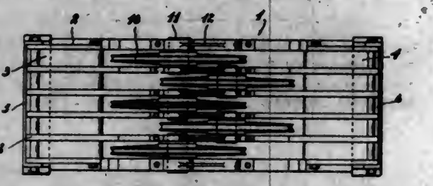
1,749,905. DOOR HOLDER. CHARLES COMSTOCK, New Hyde Park, N. Y. Filed Nov. 10, 1927. Serial No. 232,292. 6 Claims. (Cl. 292—272.)



1. A door holder comprising a channel iron having a rear web adapted to be secured to a door, a bottom flange adapted to support the tip of a holder arm, a front flange serving to guide the tip of the holder arm, and a top flange serving to keep the holder in the channel formed by the bottom flange and the top flange, a holder arm adapted to be pivoted to the underside of the top of a door

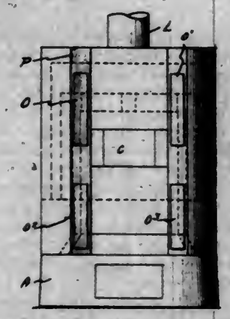
frame and having a downwardly extending tip guided in the channel, said channel having a hole in its lower flange at one end to receive and interlock with said holder tip and a releasing lever adapted to be pivoted to the door and provided with an operating chain, said lever having one end located immediately below the hole in said channel and a spring secured to said lever for normally retracting it and an anchor for securing one end of said spring to the door.

1,749,906. CROWN BLOCK. GUSTAVE J. CORMIER, Seminole, Okla. Filed June 28, 1928. Serial No. 289,018. 3 Claims. (Cl. 254—190.)



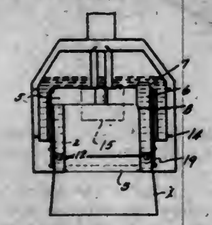
1. A crown block comprising a plurality of beam plates, spacing blocks positioned between adjacent plates, bolts extending through the plates and spacing blocks, sheaves mounted between adjacent pairs of plates, a pin upon which each sheave is journaled, and clamps extending over the pins and secured to the top of the beam plates, and angle plates positioned at both ends of the beam plates in which said beam plates are adapted to rest, and bolts extending through the beam plates and angle plates.

1,749,907. FURNACE. JOHN W. DYAR, Detroit, Mich. Filed Apr. 27, 1925. Serial No. 26,238. 7 Claims. (Cl. 122—160.)



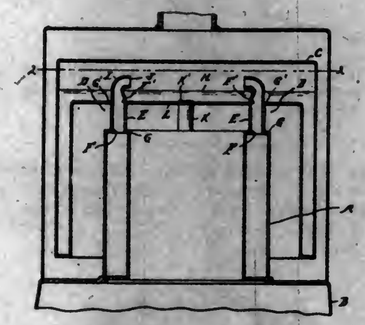
1. In a boiler furnace, the combination with a boiler section forming the fire pot and combustion chamber, of a downwardly flaring portion at the lower end of said section, and means for supporting grates of different areas at different elevations within said flaring portion.

1,749,908. BOILER FURNACE. JOHN W. DYAR, Detroit, Mich. Filed Apr. 27, 1925. Serial No. 26,239. 10 Claims. (Cl. 122—160.)



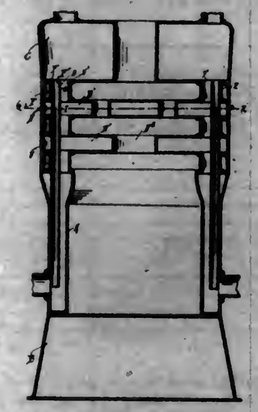
1. In a boiler furnace, the combination with an annular boiler section forming the fire pot and combustion chamber, of a top section extending across the upper end of said annular boiler section and connected thereto, a segmental water wall depending from the top section and surrounding a portion of said annular boiler section in spaced relation thereto to form a passageway for the combustion gases, and a closure for said passageway disposed at each end of said segmental water wall, said closure permitting access to said passageway for cleaning the same.

1,749,909. STEAM CONNECTION FOR BOILER FURNACES. JOHN W. DYAR, Grosse Pointe, Mich. Filed Apr. 5, 1926. Serial No. 99,974. 3 Claims. (Cl. 122—160.)



1. A nipple for boiler furnaces comprising a tubular member having tapered portions adapted to engage adjacent sections thereof, said tubular member being formed with a continuation of reduced diameter adapted to extend beyond one of the tapered portions into one of said sections and terminating in a laterally bent discharge portion.

1,749,910. NIPPLE CONSTRUCTION FOR BOILER FURNACES. JOHN W. DYAR, Detroit, Mich. Filed Apr. 5, 1926, Serial No. 99,976. Renewed July 1, 1929. 10 Claims. (Cl. 122—218.)



1. In a boiler furnace, the combination with a boiler section and a steam dome normally having water in the lower portion thereof, of a nipple connecting said dome and boiler section, a partition wall within said nipple

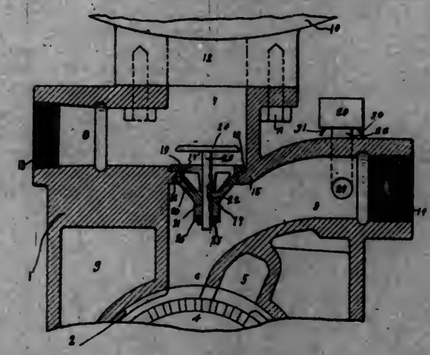
dividing the same into two separate passageways, one of said passageways being extended above the normal water line in said dome and the other terminating below said water line, the latter passageway being extended directly into said boiler section.

1,749,911. FLUSH VALVE. STEPHEN P. ENRIGHT, Philadelphia, Pa. Filed Feb. 20, 1929. Serial No. 341,383. 6 Claims. (Cl. 4—29.)



1. A flush valve comprising a casing having a valve seat therein, a valve member including a skeleton body, a head and a cross piece, trunnions carried by the body for slidably mounting the same in inclined guideways in the casing, means to temporarily latch the valve member in an open position and a valve plug on the head for coaction with the seat.

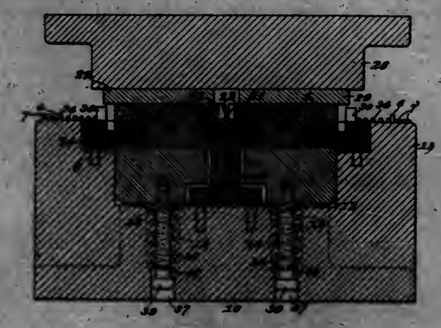
1,749,912. PUMPING APPARATUS. GALE L. FERGUSON, Cleveland, Ohio, assignor, by mesne assignments, to Auto Prime Pump Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 12, 1927. Serial No. 239,868. 2 Claims. (Cl. 103—2.)



1. Pumping apparatus comprising a casing providing a pump chamber, an inlet and an outlet for said chamber, pumping mechanism arranged in said chamber, said outlet comprising a storage branch, a service branch, and a fresh water branch all formed in said casing, a check valve mounted in said casing between said fresh water branch and said storage and service branches, and means for driving said pumping mechanism.

1,749,913. METHOD AND APPARATUS FOR SHAPING SHEET-METAL ARTICLES. OTTO JOHN GROSSE, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 10, 1927. Serial No. 239,222. 11 Claims. (Cl. 153—13.)

1. In an apparatus for shaping previously bent sheet metal, the combination of a member for supporting said bent metal, a die movable in a path inclined to the supporting surface of said member, and means for moving said die to press the metal against said member to bend said metal along a line of previous bend and a line spaced therefrom.



11. The method of shaping sheet metal previously bent with parallel flanges which comprises supporting the body of the metal between said flanges, bending said flanges in one direction along the line of the previous bend and in the opposite direction along a line spaced from said previous line of bend to bring the same together and against the body of the metal by pressure applied to said flange along a path inclined to said body and intersecting said second line of bend.

1,749,914. GAS MIXER. CHARLES T. HOWSON, Silver Creek, N. Y., assignor to Walter M. Buchholtz and Albert B. Chapman, Silver Creek, N. Y. Filed Oct. 13, 1924. Serial No. 743,303. 6 Claims. (Cl. 48—180.)



1. A gas mixer, comprising a mixing chamber having an outlet at one end, a hollow head at its other end, and an internal flange at the junction of said hollow head and mixing chamber having its inner peripreral wall tapered inwardly toward said mixing chamber, an air nozzle axially adjustable in said hollow head and having an externally-tapered portion and an internal flaring portion at its inner end, the surface of said externally-tapered portion being parallel with the inwardly-tapered wall of said internal flange and being spaced therefrom to form an annular inwardly-tapered inlet, a gas inlet pipe opening into said hollow head, and a cone within said air nozzle spaced from the internally flared portion thereof and forming between the two an annular inwardly-flared air passage through which an annular film or body of air is adapted to pass to intersect an annular film or body of gas at said annular gas inlet traveling into said mixing chamber.

1,749,915. INSULATOR RACK. WILLIAM D. KYLE, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 29, 1927. Serial No. 164,606. 3 Claims. (Cl. 173—321.)

3. A device of the character described comprising a base member adapted to be secured to a support, an in-

sulator having a transverse opening through which a line wire may be inserted to be supported by the insulator and having longitudinal bores extending through the insulator at each side of the transverse opening, the outer ends of the bores being counter-bored, and securing screws



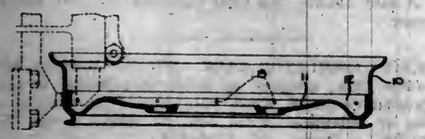
passed through the longitudinal bores with their heads positioned within the counter-bores and their ends threaded in apertures in the base member to secure the insulator to the base member, whereby breakage of the insulator permits the line wire to drop.

1,749,916. CORN POPPER. JOHN G. LE PERE, Decatur, Ill., assignor to U. S. Manufacturing Corporation, Decatur, Ill., a Corporation of Illinois. Original application filed Jan. 6, 1925, Serial No. 822. Divided and this application filed Feb. 18, 1927. Serial No. 169,272. 13 Claims. (Cl. 53—4.)



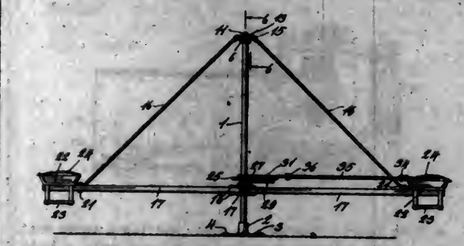
1. A device of the character described including, in combination, a basket or receptacle having a handle attached thereto, a lid or cover for said basket or receptacle including a one piece member forming a marginal frame for the lid or cover extending around the edges thereof and having an operating member, said operating member extending along said handle and being formed with means to slidably engage said handle.

1,749,917. METHOD OF WELDING WHEEL PARTS. JOSEPH W. MEADOWCROFT, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 21, 1928. Serial No. 263,230. 2 Claims. (Cl. 219—10.)



1. The method of welding metal wheel bodies to rims which consists in peripherally flanging the body to fit said rim, outwardly forming spuds on said flange and thereby destroying said fit, forcing said spudded body into said rim and thereby resiliently stressing said body, and thereafter spot welding the spuds to the rim thereby relieving the stress, restoring the fit of the flange in the rim and autogenously joining it thereto.

1,749,918. AMUSEMENT DEVICE. MAJOR MCLENNAN, McCamey, Tex. Filed Oct. 29, 1928. Serial No. 315,638. 1 Claim. (Cl. 272—33.)



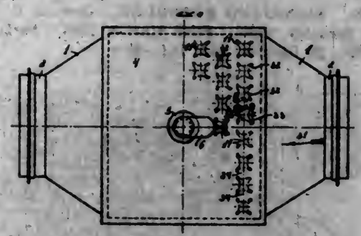
A hand operated amusement device comprising, in combination, a vertical mast, a thrust bearing secured to the upper end of said mast, a plurality of radially extending arms rotatably connected with the mast, a supporting rod extending from the free end of each arm to the thrust bearing, a seat secured to the outer end of each arm, a ratchet wreel nonrotatably secured to the mast, a lever having one end rotatably connected with the mast, a brace member having one end connected with the lever and the other end rotatably connected with the mast, a spacer block located between the lever and the brace, said block having an opening, a pawl reciprocable in said opening, a spring means associated with the pawl for urging it towards the ratchet, a second lever mounted for oscillation about a pivot located adjacent the free end of one of the arms, one end of said second lever extending over the seat and a link connecting the other end of the second lever with the free end of the first lever.

1,749,919. OPERATING CURETTE. IRA C. MIERLEY, Denver, Colo., assignor to Ida B. Mierley, Denver, Colo. Filed Aug. 27, 1928. Serial No. 302,271. 6 Claims. (Cl. 128—305.)



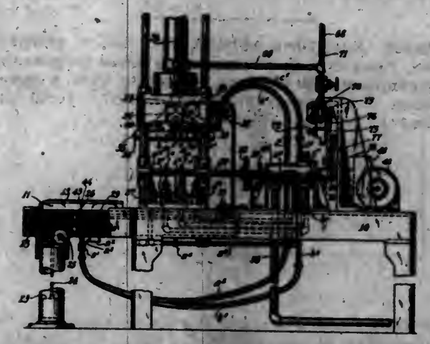
1. An aspirating curette comprising: a tube, said tube being relatively straight for the majority of its length; a gently curved portion on one extremity on said tube; and an obliquely placed operating edge on the extremity of said curved portion.

1,749,920. APPARATUS FOR REMOVING DUST FROM GASES. ANDRÉ MODAVE, Brussels, Belgium, assignor of fifty per cent to Ateliers Haares Societe Anonyme, Monceau sur Sambre, Belgium, a Company. Filed Sept. 8, 1927, Serial No. 218,191, and in Belgium Sept. 13, 1926. 4 Claims. (Cl. 183—21.)



1. In an apparatus for removing dust from gases a chamber having an inlet and outlet thereto, baffle elements having concave outer surfaces arranged in said chamber between said inlet and outlet in successive rows, said elements of one row being staggered with respect to those of the adjacent rows and being arranged to provide narrow restricted passages between the edges of said elements and relatively wider passages between the surfaces of said elements, and means for distributing water over the outer surfaces of said elements.

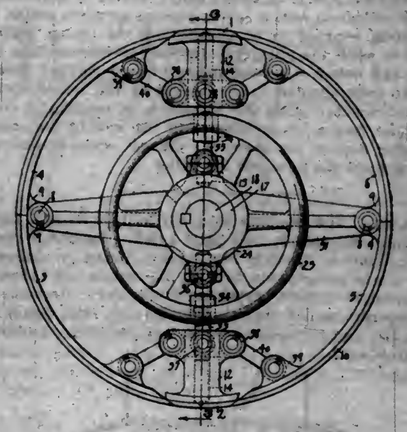
1,749,921. APPARATUS FOR COATING DEFINED AREAS OF FABRIC ELEMENTS. ANDREW B. MULLIN, Kenmore, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 24, 1927. Serial No. 177,972. 7 Claims. (Cl. 91—18.)



1. Coating apparatus comprising a pair of members adapted to embrace a piece of sheet material between them, said members being formed with registering portions adapted to compress the work to limit the spread of coating material thereon and with adjacent surfaces adapted to permit the flow of coating material thereover along the face of the work, the said members being perforated for the passage of coating material therethrough in the regions of the said surfaces, and means for forcing a coating material through the perforations of the said members.

7. Coating apparatus comprising two die members mounted for movement substantially parallel with their work-engaging faces into and out of coating position, two other die members mounted for movement substantially normal to their work-engaging faces into and out of coating position, each of the first-mentioned die members being adapted to mate with one of the second-mentioned die members to embrace a piece of sheet material between them at coating position, means for actuating the two pairs of mating die members, and means for applying coating material to the die members.

1,749,922. COLLAPSIBLE TIRE-BUILDING FORM. JOHN E. PALMER, Akron, Ohio, assignor to The Summit Mold & Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 23, 1927, Serial No. 221,484. Renewed Jan. 22, 1930. 16 Claims. (Cl. 154—9.)



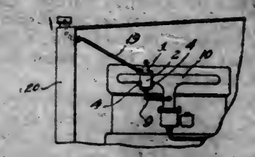
1. In a collapsible tire building form, the combination of a form body composed of a plurality of sections, certain of the sections being tapered outwardly of the form and arranged oppositely of one another, the remaining sections being arranged in pairs hinged together and located betwen the first named sections, a collapsing mechanism at the center of the form and connected directly with the first named sections, and means to rock the remaining sections about their pivots as the first named sections are moved toward and from the axis of the core.

1,749,923. COATING COMPOSITION. JOSEPH VINCENT REARDON, St. Louis, Mo., assignor to The Reardon Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 9, 1926. Serial No. 147,382. 19 Claims. (Cl. 91—68.)

1. A water paint characterized by the facts that it attaches itself firmly to structural substances of mineral character, becomes practically wear- and weather-proof, contains a mineral base having a binder in which each of the ingredients, lime and cement, is present in major proportions, and consists of about half its weight of water adapting it to painting by brush or spray.

14. A paint base comprising a lime-cement binder which includes not over about 50 parts hydraulic cement and not over about 50 parts lime accompanied by a small amount of salt, a small amount of soap and a small amount of sugar.

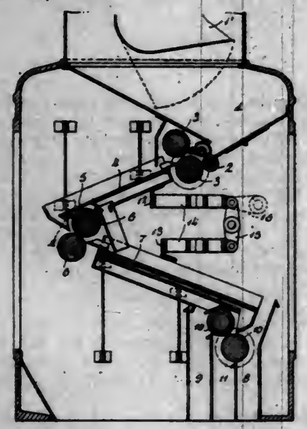
1,749,924. FUEL-CHARGE MOISTENER. ARTHUR C. RUNGE and ERNEST C. BADGER, Detroit, Mich.; said Badger assignor to said Runge. Filed Jan. 5, 1929. Serial No. 330,472. 6 Claims. (Cl. 128—25.)



1. In a fuel charge moistener for an internal combustion engine having a water circulating radiator, a cylinder, an inlet for the cylinder connected to the radiator above the

water level therein, an outlet for the cylinder opening into the intake manifold of the internal combustion engine, a plunger movable longitudinally of the cylinder to close the inlet or the outlet, a stem secured to the plunger and extending through the top of the cylinder, an adjusting nut threaded onto the end of the stem, a coiled spring about the stem adapted to be placed under tension by adjustment of the adjusting nut, a spring pressed member, means on the stem adapted to be engaged by the spring pressed member when the plunger is in position intermediate the inlet and outlet, a second spring pressed member, means on the stem adapted to be engaged by the second spring pressed member when the plunger is in position to close the inlet, and a bypass formed in the wall of the casing allowing flow of air about the plunger when in position intermediate the inlet and the outlet.

1,749,925. APPARATUS FOR GRINDING GRAIN INTO CRUSHED MALT AND THE LIKE. JOSEF SCHAEFER, Frankfort-on-the-Main-Bockenheim, Germany, assignor, by mesne assignments, to Miag Muhlenbau und Industrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 19, 1925, Serial No. 31,276, and in Czechoslovakia May 24, 1924. 4 Claims. (Cl. 83—12.)



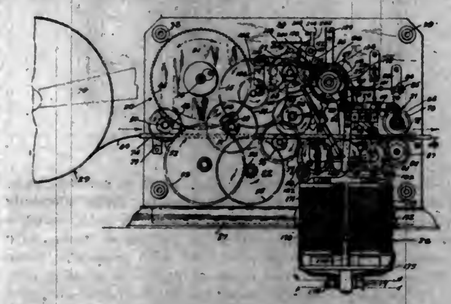
1. In an apparatus for grinding grain, the combination of a pair of bladed cutting rolls, the blades of which operate to cut the single grains longitudinally into halves, a sieve to which the products are fed from said cutting rolls, a pair of smooth rolls at one end of said sieve and distanced a space a little less than the thickness of a halved grain, another sieve receiving the products from said smooth rolls, a second pair of bladed rolls to which particles are fed from the smooth rolls and having their blades rotated at different speeds so that said blades act more than once on every particle of the grain produced by said pair of smooth rolls, and means for diverting portions of the products from the first named sieve past said smooth rolls and on to the second named sieve.

1,749,926. PROCESS OF MAKING SHOES. CHARLES B. SPALSBURY, St. Louis, Mo., assignor to Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 18, 1928. Serial No. 300,445. 16 Claims. (Cl. 12—142.)



1. In the art of making shoes, the process comprising, lasting an upper over a last and temporarily fastening the same, holding the lasted upper while the temporary fastenings are withdrawn, placing a sole on and temporarily tacking the same to the lasted upper while the latter is so held and permanently securing the tacked sole and upper together.

1,749,927. SIGNALING RECORDER. OSWALD G. STEINITZ, Berkeley, Calif. Filed Mar. 8, 1927. Serial No. 173,688. 29 Claims. (Cl. 164—89.)



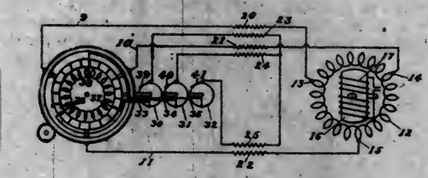
1. A recording apparatus of the type described, including in combination, an actuating-drum, gear trains actuated thereby, a punch-mechanism including independently operable punches and a tape-feeding mechanism, said gear trains operatively connecting said mechanisms for their simultaneous operation, a clutch mechanism coactively associated with said punch-mechanism and providing means for the selective or simultaneous actuation of its punches, and electro-magnetic means for controlling said clutch mechanism.

1,749,928. SOUNDING APPARATUS. BIRD R. STEPHENSON, Ponca City, Okla., assignor, by mesne assignments, to Continental Oil Company, Ponca City, Okla., a Corporation of Delaware. Filed Oct. 7, 1927. Serial No. 224,741. 1 Claim. (Cl. 137—18.)



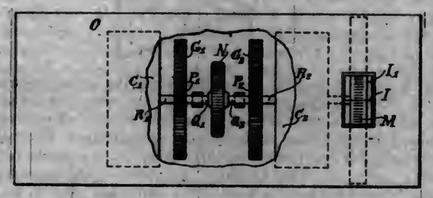
A sounding apparatus comprising, in combination, a container, oppositely disposed openings formed within the container, valves for closing the oppositely disposed openings, the stems of the valves being arranged in telescopic relation with each other, resilient means tending normally to close the valves, and means for maintaining the valves in an open position, the latter named means being operative from a point remote from the container to permit closing of the valves.

1,749,929. REDUCING THE EFFECTS OF RESIDUAL MAGNETISM IN ELECTRICAL APPARATUS. HARRY L. TANNER, Brooklyn, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Nov. 6, 1924. Serial No. 748,295. 3 Claims. (Cl. 172—239.)



1. In a transmission system, a transmitter comprising a power driven armature, a commutator connected thereto, a set of movable brushes coacting with the commutator, means for adjusting the position of said brushes to vary the potential conditions thereat, a receiver motor, conductors between said brushes and the field of the receiver motor, means associated with said conductors for introducing a fluctuating electromotive force thereto to reduce the effect of residual magnetism in the field of the motor, and an armature for said motor relatively movable to said field in accordance with the electromotive force produced by said transmitter.

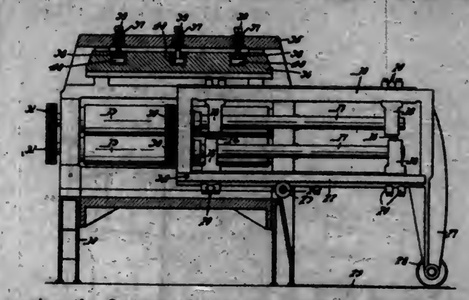
1,749,930. VARIABLE-CIRCUIT ELEMENT FOR RADIO RECEIVING SETS. FREDERICK K. VREELAND, Montclair, N. J. Filed Apr. 15, 1926. Serial No. 102,142. 5 Claims. (Cl. 250—40.)



1. In a radio signaling system and in combination with a plurality of tunable circuits, variable instrumentalities one at least thereof being included in each of said circuits for tuning said circuit, an instrument panel having apertures therethrough, a rotatable shaft mounted adjacent said panel, means for rotating said shaft exposed through one of said apertures of said panel, an indicating dial mounted on said shaft and positioned opposite the other of said apertures in said panel, and connections between said shaft and said tuning elements whereby said tuning elements are simultaneously operated by said rotating means and said indicating dial is positioned opposite its aperture to indicate the adjustment of said tuning elements when said shaft is rotated.

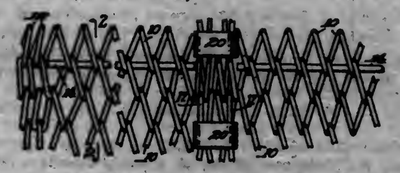
1,749,931. SUPPORT FOR ROTARY SLITTERS. GEORGE A. WALL, Wilmington, Mass., assignor to Shaw Crane-Putnam Machine Company, Inc., Fitchburg, Mass., a Corporation of Delaware. Filed Aug. 27, 1928. Serial No. 302,190. 7 Claims. (Cl. 164—61.)

1. In a slitting or cutting machine for metal sheets, the combination with a pair of shafts having slitting cutters thereon and means for driving them, of a frame carrying said shafts, a stationary frame on which the first-named frame is movably mounted, and means for



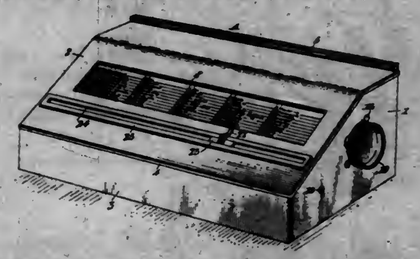
moving the first-named frame outwardly in a horizontal direction parallel to the axes of the shaft to permit of access to the cutters.

1,749,932. SECTIONAL CONVEYER BELT. FRANCIS N. WOODMAN, Clinton, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y., a Corporation of Delaware. Filed July 27, 1928. Serial No. 295,809. 4 Claims. (Cl. 198—193.)



1. A sectional wire conveyer belt comprising a plurality of relatively narrow belt sections, each section being formed of interlaced spiral wire coils and having the end turns of the wire coils compressed laterally to form reinforced selvage edge portions, and means to secure said edge portions together.

1,749,933. APPARATUS FOR SELECTIVE VERBATIM CODING AND DECODING. HARRY R. BARNETT, Denver, Colo. Filed June 25, 1925, Serial No. 39,577. Renewed July 30, 1929. 9 Claims. (Cl. 35—13.)

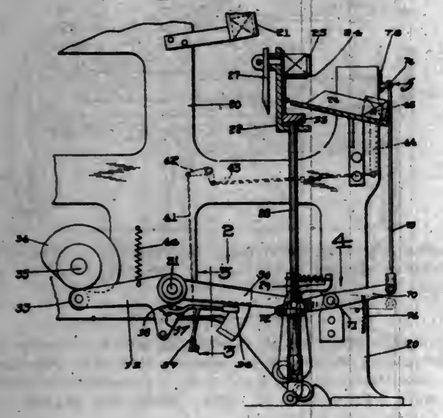


1. Apparatus for coding and decoding comprising a plurality of parallel and longitudinally shiftable code strips, each of said code strips having a plurality of transversely disposed lines of words and phrases arranged thereon in alphabetical groups and code designations preceding each line.

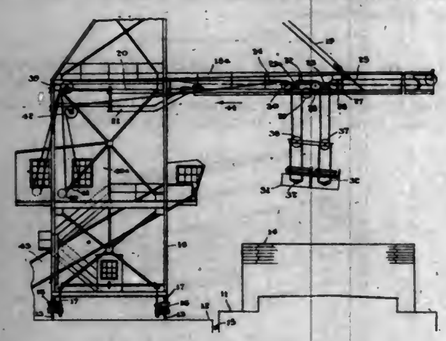
1,749,934. TRANSFER AND FEELER CONTROL MECHANISM FOR SHUTTLE-CHANGING LOOMS. AUGUSTIN J. CHEVRETTE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1928. Serial No. 258,557. 5 Claims. (Cl. 139—229.)

1. In a shuttle changing loom, weft detecting mechanism at one side of the loom, shuttle changing mechanism

at the other side of the loom, and separate actuating cams for said two mechanisms, said cams being relatively positioned to delay the shuttle change until after the second flight of the shuttle to the shuttle changing side of the loom.



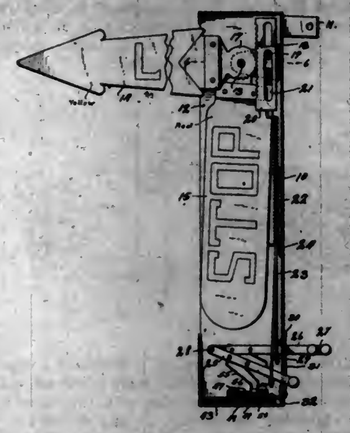
1,749,935. UNLOADING DEVICE. DANIEL W. COE and CECIL E. THOMPSON, Montreal, Quebec, Canada. Filed Oct. 10, 1927, Serial No. 225,284, and in Canada Dec. 15, 1926. 8 Claims. (Cl. 212—79.)



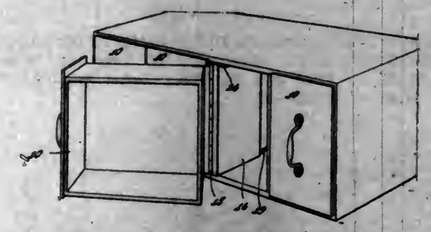
1. In an unloading mechanism, a travelling trolley, a skip, flexible means suspending the skip from said trolley and affording a vertically adjustable support for the skip, a track for said trolley, said track being at one part formed into a double track at different elevations to cause the trolley and the skip suspended therefrom to be angularly disposed to the horizontal at said part.

1,749,936. AUTOMOBILE SIGNAL. NEWTON W. COFFEY, El Paso, Tex. Filed Nov. 11, 1924. Serial No. 749,238. 1 Claim. (Cl. 200—5.)

A signal control switch comprising a plurality of switch sections each embodying a contact element movable in one direction to open a circuit and a second contact element movable in the same direction to close a second circuit, the first named contacts of the sections being connected in series and an operating element for each section coacting with the contact elements of the section to simultaneously shift the same in said direction.

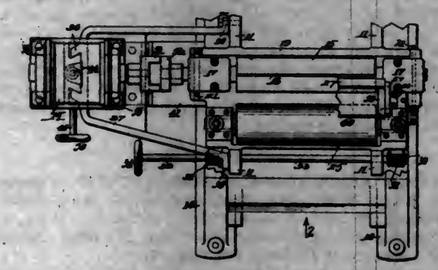


1,749,937. DRAWER. LOUIS F. DETTENBORN, Hartford, Conn. Filed Apr. 30, 1925. Serial No. 27,043. 2 Claims. (Cl. 45—95.)



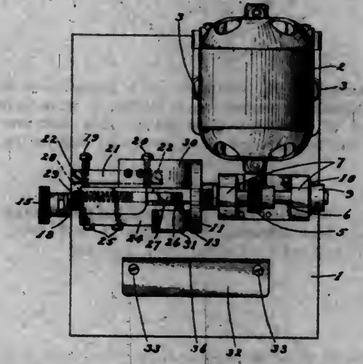
1. A cabinet having a drawer receiving compartment and a curved guide extending along one side and across the back of the compartment, a single drawer supporting follower engaging the guide in said compartment, said follower adapted for movement forwardly on the guide into contact with said side to brace the follower thereagainst, and a drawer hingedly connected at one inner edge to said follower to admit swinging of the drawer when withdrawn from the compartment to one side thereof.

1,749,938. DOUBLE-CYLINDER PLANER. WALTER H. HALL, Winchendon, Mass., assignor to Goodspeed Machine Company, Winchendon, Mass., a Corporation of Massachusetts. Filed Feb. 23, 1926. Serial No. 89,834. 3 Claims. (Cl. 144—117.)



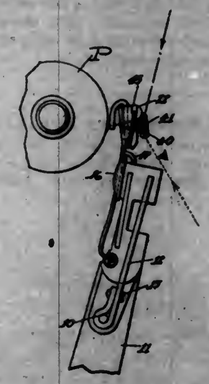
1. In a wood planer, a work table, a cutter cylinder, a presser bar for said cylinder, a stand on which said bar is pivoted, means to press said bar yieldingly upward in said stand, means to limit such upward movement, and means to adjust said stand vertically relatively to said work table, said latter means comprising a double wedge member slidable beneath said stand.

1,749,939. INSULATION-REMOVING PROCESS. HARLEY H. HELLER, Riverside, Conn., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Jan. 2, 1926. Serial No. 79,011. 6 Claims. (Cl. 29—1.)



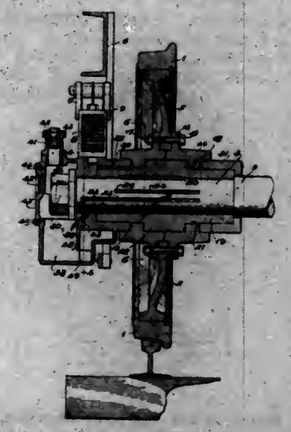
2. The process of stripping insulating coating from wire which consists in applying a combined rolling and rubbing action to the wire and slightly flattening the wire at the region where such action is applied.

1,749,940. THREAD GUIDE FOR SPOOLING AND WINDING MACHINES. LEWIS T. HOUGHTON, Worcester, Mass.; John M. Houghton and Olive M. Lambert, executors of the estate of said Lewis T. Houghton, deceased, assignors to John M. Houghton and Olive M. Lambert, Worcester, Mass. Filed July 18, 1925. Serial No. 43,072. 11 Claims. (Cl. 242—157.)



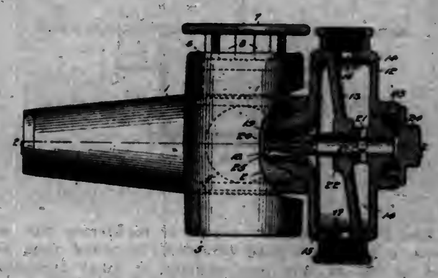
1. As an article of manufacture, a V-shaped guide of round wire for the purpose described having a flat inclined surface at the bottom for guiding the thread or yarn and having flat side surfaces extending upwardly therefrom and spaced apart substantially in vertical position and connected by said inclined surface, which forms the bottom of the V, said round wire diverging on the two sides of the V gradually beyond the two flat surfaces.

1,749,941. LUBRICATING DEVICE. ALBERT HUGUENIN, Paris, France. Filed Sept. 20, 1928. Serial No. 307,150. 9 Claims. (Cl. 308—79.)



5. In combination, an axle and a wheel, a lubricant reservoir, said axle being formed with longitudinally disposed inter-communicating grooves arranged in substantially diametrically opposed relation, said reservoir having ducts leading from the opposite sides of the same and communicating, individually, with the grooves, a bearing sleeve for the wheel, a second bearing sleeve fixedly mounted upon said axle having slots therein communicating with and corresponding to said grooves, thrust bearing means on each of said sleeves inter-engaging with each other, and means on the opposite side portions of the axle bearing sleeve thrust bearing means cooperable with the adjacent sides of the thrust bearing portions of the wheel bearing sleeve whereby with rotation of the wheel bearing sleeve to effect the drawing of lubricant from the reservoir through certain of said ducts into and from that groove communicating therewith and discharging the lubricant onto contacting surfaces of said bearing sleeves, then returning the residue of said lubricant through the remaining slots and grooves into the remaining duct and then into the reservoir.

1,749,942. BURNER. CAMPBELL M. HUNTER and HAROLD P. PHILPOT, London, England. Filed May 24, 1927, Serial No. 193,888, and in Great Britain Sept. 7, 1926. 6 Claims. (Cl. 158—11.)



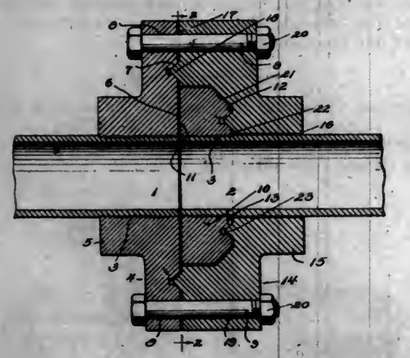
1. In a burner of the fluid fuel type, the combination of a mixing chamber, means for conducting gaseous fuel to said chamber, and a plurality of jets arranged in concentric spaced relation one within the other for conducting fluids to said chamber, the space between said jets forming the nozzle for a motive fluid and increasing in cross sectional area in the direction of flow of said motive fluid.

1,749,943. REVERSIBLE PLACARD HOLDER FOR TANK CARS. SYLVESTER L. JOINER, McGregor, Tex. Filed Sept. 8, 1928. Serial No. 304,666. 5 Claims. (Cl. 40—28.)



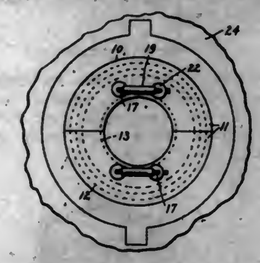
1. In a device of the character described, a bracket, a placard holder supported on the bracket and including front and rear leaves connected by a web portion, each leaf being substantially rectangular and having flanges on three sides forming guides and a support for a placard against each leaf, the front leaf carrying signalling indicia, and a placard carrying different signalling indicia on its opposite faces and adapted to be supported interchangeably on the leaves in the respective guides and supports and when supported on the front leaf concealing the signalling indicia on the latter.

1,749,944. PIPE COUPLING. ALBERT KALO, Columbus, Ohio, assignor of one-half to Joseph D. Cox, Columbus, Ohio. Filed Aug. 16, 1928. Serial No. 299,938. 1 Claim. (Cl. 285—138.)



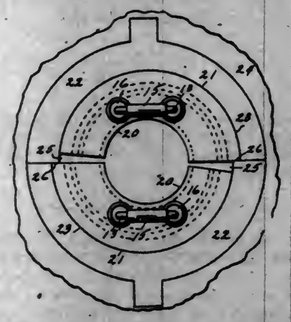
The combination with a pair of registering pipe sections, a stationary head threadedly mounted upon one end of one of said pipe sections, a collar threadedly mounted upon the complemental end of the other of said pipe sections, a movable head slidably mounted upon said last named pipe section, a circular rib provided upon one of said heads and receivable within a circular groove formed in the other of said heads, a corresponding rib and groove construction between said movable head and said collar, and clamping means for maintaining said heads in stationary clamped and secured relationship.

1,749,945. SECTIONAL WEDGE SLIP. JOSEPH W. KAOUGH, near Houston, Tex. Filed June 7, 1928. Serial No. 283,590. 14 Claims. (Cl. 24—263.)



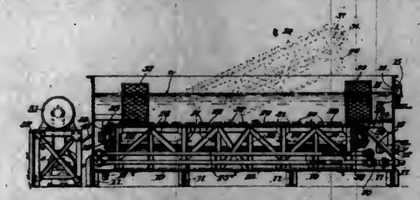
1. A sectional slip composed of a plurality of superposed segmental members each having a work gripping face, and a connector upon which said members are mounted for independent axial movement relative to each other.

1,749,946. WEDGE SLIP FOR ROTARIES. JOSEPH W. KAOUGH, near Houston, Tex. Filed June 7, 1928. Serial No. 283,591. 8 Claims. (Cl. 24—263.)



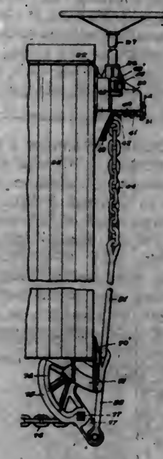
1. In a wedge slip device for rotaries, a slip member having a gripping face concentric to the axis of the slip and an outer wedge face formed eccentric to said gripping face, an enclosing member having an eccentric face corresponding to the eccentric face upon the slip and means for imparting rotary movement to said member to shift the same upon the outer slip face.

1,749,947. DISH-STERILIZING APPARATUS. FREDERICK F. KAUFFMANN, Camden, N. J., assignor to The Insinger Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 21, 1926. Serial No. 110,713. 7 Claims. (Cl. 167—3.)



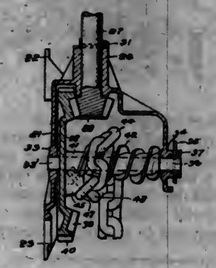
1. A machine of the class described comprising a tank to contain a sterilizing bath, an endless conveyor to support and move articles being sterilized in the bath, a frame carrying said conveyor, a drive wheel for said conveyor, a shaft on which said wheel is rigid, said shaft being journalled on said frame and permitting the latter to be swung about the axis of said shaft.

1,749,948. RAILWAY-CAR HAND BRAKE. AUGUSTUS F. KLASING, Chicago, Ill. Filed Aug. 23, 1927, Serial No. 214,916. Renewed Jan. 20, 1930. 3 Claims. (Cl. 74—112.)



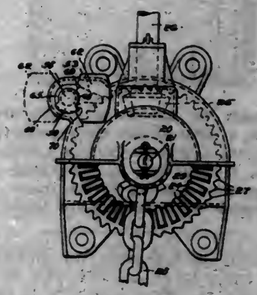
1. In a railway car hand brake, a winding drum mounted at the end of the car and having its axis of rotation extending longitudinally away from the car, a flexible element connected with the drum to be wound thereon, means to guide the flexible element in its winding movement upon the drum so that it travels toward the outer end of drum and away from the end of the car, a power transmitting unit mounted upon the car beneath the drum and having a part connected with the flexible element and adapted when moved upwardly by the flexible element to travel longitudinally away from the end of the car whereby a substantially vertical pull is transmitted to said part, and means adapted to connect the power transmitting unit with brake rigging.

1,749,949. WINDING MECHANISM. AUGUSTUS F. KLASING, Chicago, Ill. Original application filed Aug. 23, 1927, Serial No. 214,916. Divided and this application filed Sept. 1, 1928, Serial No. 303,536. Renewed Jan. 20, 1930. 3 Claims. (Cl. 74—112.)



1. In a railway car brake, a support, a winding drum mounted thereon and said drum having a spiral supporting rib and a spiral guiding rib extending radially beyond the supporting rib, a chain attached to the drum near one end of the ribs, said chain having alternate links inclined in opposite directions to contact with the periphery of the drum between the ribs, and means to rotate the drum.

1,749,950. WINDING MEANS. AUGUSTUS F. KLASING, Chicago, Ill. Original application filed Aug. 23, 1927, Serial No. 214,916. Divided and this application filed Sept. 1, 1928, Serial No. 303,536. Renewed Jan. 20, 1930. 3 Claims. (Cl. 188—81.1.)



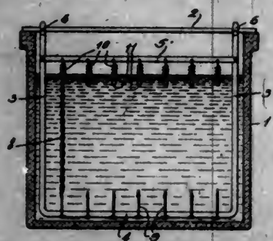
1. In a railway car hand brake, a housing provided with a bearing having a radial notch, a pawl adapted to be arranged with the housing and having a tubular hub provided with a radial notch, a pawl shaft having a radial rib and adapted to be inserted within the bearing of the housing and into the tubular hub of the pawl, a weight having an extension provided with an opening to pivotally receive the pawl shaft, said weight having stop shoulders and said pawl shaft having a stop to engage with the stop shoulders, said stop also serving to prevent the removal of the weight prior to the removal of the pawl shaft, a gear wheel mounted within the housing and having ratchet teeth to engage with the pawl, the arrangement of the radial notch in the housing being such that the pawl shaft can not be removed until the gear wheel is removed from its operative position within the housing, means to turn the gear wheel, and brake applying means operated by said gear wheel.

1,749,951. STRUCTURAL DESIGN FOR AIRCRAFT. HARRY F. LAKE, Viroqua, Wis. Filed Dec. 1, 1928. Serial No. 323,033. 7 Claims. (Cl. 244—31.)



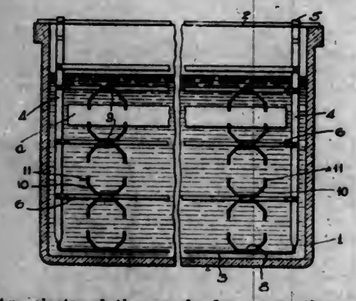
1. A structure of the class described including a torque tube, hoops disposed about the torque tube at spaced intervals, radial tension members between the hoops and the torque tube, diagonal tension members between the torque tube and the hoops, a member including a sleeve to receive the torque tube and a second sleeve disposed transversely of the first sleeve, spars in the second sleeve extending laterally from the torque tube.

1,749,952. HANGER FOR ARTICLES TO BE PLATED. LOUIS LICHTMAN, New York, N. Y., assignor to Chromeplate, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1928. Serial No. 322,222. 5 Claims. (Cl. 204—5.)



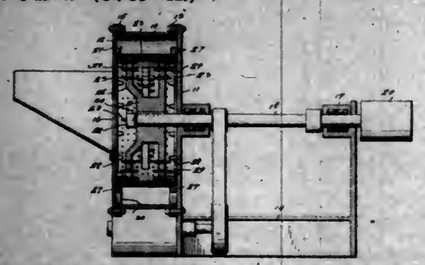
5. In a hanger for supporting flexible articles of interlinked units, a substantially rectangular frame having hangers at its top and article supports, each including a pair of hooks, the members in substantial register and secured to opposite members of the frame, and springs interposed between the hooks and the frame.

1,749,953. RACK OR HANGER FOR ARTICLES TO BE PLATED. LOUIS LICHTMAN, New York, N. Y., assignor to Chromeplate, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1928. Serial No. 322,225. 7 Claims. (Cl. 204—5.)



7. An electro-plating rack for supporting plate-like articles, including a substantially U-shaped frame having a body and arms provided with hangers for supporting the rack, and with a plurality of resilient cross bars arranged between the arms substantially parallel with the body, each cross bar and the body having members for engaging the edges of the articles, each of said members comprising a body portion secured to the frame body or to a cross bar and arms extending laterally from the body, the free end of each arm having a V-shaped notch to receive the edge of the article.

1,749,954. FEED GRINDER. HERMAN B. LUBBERS, Osmond, Nebr. Filed Nov. 10, 1928. Serial No. 318,547. 3 Claims. (Cl. 83—11.)

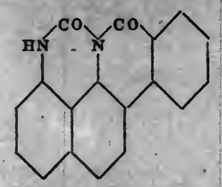


1. A feed grinder including an outer drum, the periphery of which has a discharge opening, a shaft entering one end of the drum and having thereon a plurality of substantially radial beater arms arranged in staggered relation, the opposite end of the drum having a central feed opening, a screen concentric to the shaft and disposed outward of the ends of the arms and spaced from the periphery of the drum, and means for rotating the shaft, the arms on the shaft having laterally projecting studs and an end wall of the drum being provided with inwardly projecting studs coacting with the studs on the arms, each of said arms at its outer end being provided with a shoe and having teeth facing in the direction of rotation.

1,749,955. NEW CONDENSATION PRODUCT OF THE PERIMIDONE SERIES. WALTER MIEG, Opladen, and RUDOLF HEIDENREICH, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed June 18, 1928, Serial No. 286,481, and in Germany Dec. 16, 1925. 8 Claims. (Cl. 260—32.)

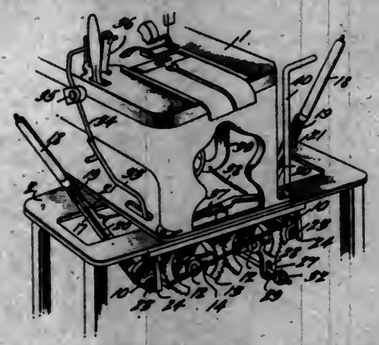
1. Process, which comprises reacting upon a compound obtainable by reacting upon perimidone with an aromatic carboxylic acid halide, with anhydrous aluminium-chloride.

8. The product of the probable formula:



said product forming yellow needles, soluble in strong sulfuric acid with a yellow coloration and with a powerful green fluorescence.

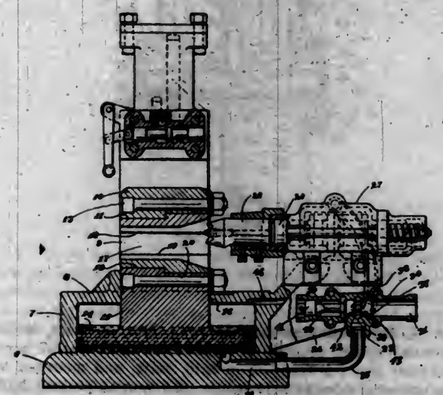
1,749,956. CENTRALIZER FOR SEWING MACHINES. HENRY C. MILLER, Waterford, N. Y. Original application filed July 26, 1922, Serial No. 577,714. Divided and this application filed Sept. 15, 1927. Serial No. 219,789. 15 Claims. (Cl. 112—75.)



1. A centralizer comprising a pair of article engaging arms mounted for relative swinging movement, means for inducing a simultaneous, uniform and relative movement of the arms in a direction away from each other to center an article carried by the arms, and means for mounting the arms for bodily unitary movement to serve to move the article so centered to a point of deposit.

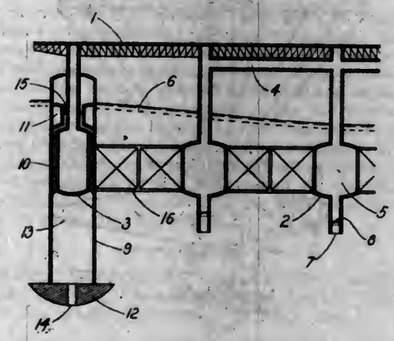
1,749,957. DRILL SHARPENER. PAUL A. NELSON, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Sept. 14, 1926. Serial No. 135,437. 4 Claims. (Cl. 76—5.)

1. In a machine of the character set forth, the combination with a cylinder member having an upper head and a yoke overhanging the head, of a piston in the cylinder member having an upstanding die carrier operating in the yoke, means for securing an upwardly faced die on top of the carrier and a downwardly faced die on the top of the yoke, a bracket at one side of the cylinder member, means mounted on the bracket for operating on work clamped by the dies, a valve mechanism mounted on the bracket, means for directing motive fluid from the valve mechanism to the cylinder member below the piston to raise the lower die into coaction with the upper die and to the means mounted on the bracket, the interior of said cylinder member above the piston being at all times open to atmosphere.



2. In a machine of the character set forth, the combination with a cylinder member having an upper head and a yoke overhanging the head, of a piston in the cylinder member having an upstanding die carrier operating in the yoke, means for securing coacting dies to the carrier and yoke, said cylinder member head having a socket and an upstanding tubular pin carried by the piston and slidably fitted in the socket, the bore of the pin having communication with the interior of the cylinder member above the piston and said interior having open communication with atmosphere.

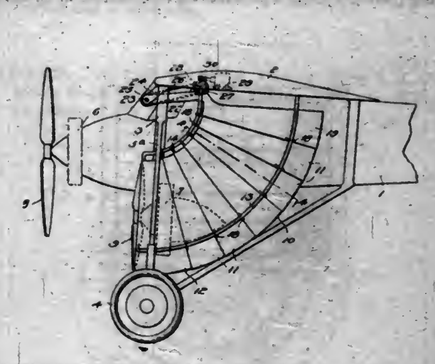
1,749,958. FLOATING STATION. RALPH R. RANDELL, Washington, D. C. Filed June 13, 1929. Serial No. 370,654. 20 Claims. (Cl. 114—0.5.)



14. The method of abating differences between and fluctuations in the buoyancy of the supporting open-bottomed floats of a floating station due to disturbances in the water, which consists in approximately equalising the pressures in the various floats.

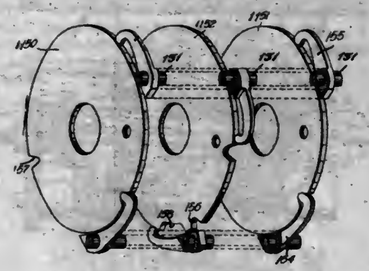
20. The method of abating differences between and fluctuations in the buoyancy of the supporting floats of a floating station due to surface disturbances in the water, which consists in insulating the water in which they float from the surrounding surface water.

1,749,959. AIRPLANE. HAROLD J. READ, San Diego, Calif. Filed July 28, 1928. Serial No. 295,900. 16 Claims. (Cl. 244—14.)



13. An airplane involving a propeller whose axis of rotation is normally substantially horizontal, and means movable into and out of the path of the slip-stream of said propeller for deflecting said slip-stream upwardly against the under side of a wing of the airplane.

1,749,960. CASH REGISTER. BERNIS M. SHIPLEY, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Mar. 26, 1923. Serial No. 627,711. 29 Claims. (Cl. 235—6.)



1. In a machine of the class described, the combination of a plurality of totalizers, a plurality of supporting means for said totalizers, means for actuating any desired totalizer, the totalizers being normally disengaged from the actuating means, means for engaging the desired totalizer with and disengaging it from said actuating means, and means for controlling said engaging means comprising a plurality of members and a plurality of feelers each provided with a plurality of fingers cooperating with said members.

1,749,961. METHOD OF PRODUCING CINEMATOGRAPHIC TITLES, HEADLINES, ANNOUNCEMENTS, AND THE LIKE. JOHANN JACOB FRIEDRICH STOCK, Munich, and PAUL EPPING, Berlin, Germany. Filed Mar. 19, 1927, Serial No. 176,752, and in Germany Mar. 20, 1926. 2 Claims. (Cl. 88—16.)

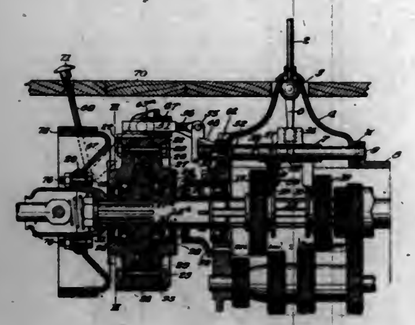
1. The method of producing cinematograph titles, headlines, announcements and the like, which consists in

arranging a plurality of loose and individually formed letters upon a ground-plate so as to compose the desired text, temporarily fixing the letters in position on the plate, faintly photographing a pictorial representation on a photo-



graphic plate or cinematographic film, subsequently exposing the plate or film to photograph the matter so composed on the ground-plate, and cinematographically making the required number of film pictures from the doubly exposed plate or film.

1,749,962. GEAR-SHIFTING MECHANISM. FRANCIS J. STRAUB and JOSEPH T. WEINZIERL, New Kensington, Pa. Filed Mar. 22, 1928. Serial No. 263,694. 12 Claims. (Cl. 192—4.)

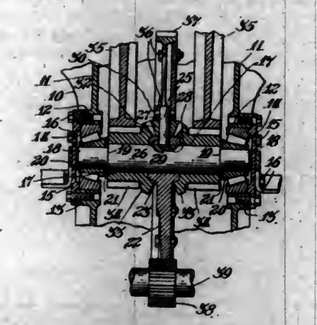


5. In change-speed mechanism for motor vehicles, a power imparting shaft having a shifting gear, a shifting device therefor, a brake-drum surrounding the shaft, releasable binding mechanism between the shaft and drum, a brake band surrounding the drum having terminal lugs, an adjusting set screw for one of said lugs, a spring pressed bolt engaging the other lug, and means connected with the shifting device for spreading the lugs apart to loosen the band.

1,749,963. SULPHUR DYESTUFF PASTE. ERNST VOETTER, Konstanz, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 24, 1928, Serial No. 256,799, and in Germany June 16, 1925. 11 Claims. (Cl. 8—6.)

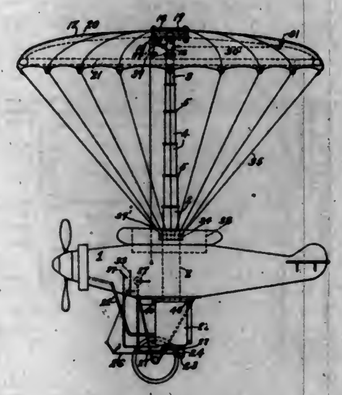
1. The process for preparing homogeneous sulphur dyestuff pastes, which comprises adding to the press-cake of a sulphur dyestuff a bactericidal agent, an alkaline reacting agent and a carbohydrate capable of being swelled by the action of the said alkaline reacting agent.

1,749,964. DIFFERENTIAL MECHANISM. HERMAN E. ALTGELT, South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company, a Corporation of Delaware. Filed Mar. 9, 1928. Serial No. 260,479. 10 Claims. (Cl. 74—99.)



1. A differential mechanism comprising a shaft, a differential spider secured to said shaft, differential bevel and spur gears journalled on said shaft, and mounted on the opposite sides of said spider, differential pinions journalled in said spider and meshing with the bevel gears on said shaft, pinion shafts secured to said spider on which said differential pinions are journalled, and means for securing said differential spider to said differential shaft by one of said pinion shafts.

1,749,965. SAFETY PARACHUTE. FRANK ARNAIZ, Los Angeles, Calif. Filed July 25, 1928. Serial No. 295,140. 5 Claims. (Cl. 244—21.)



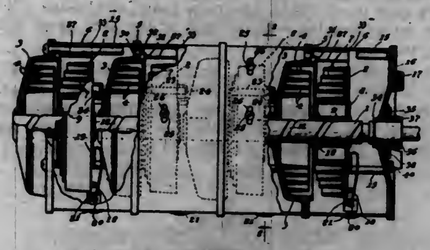
1. The combination with a parachute sheet; of a telescopic tubular standard; means for supplying compressed air to the standard to extend the same to lift the sheet; pneumatic means to spread the parachute sheet after the standard has been extended and means operable by the extension of the standard to start the pneumatic spreading means into operation to spread the sheet.

1,749,966. BRASSIÈRE FOR BATHING SUITS. ARTHUR J. BARNETT, New York, N. Y., assignor to The Worcester Knitting Co., Worcester, Mass., a Corporation of Massachusetts. Filed June 28, 1928. Serial No. 288,888. 4 Claims. (Cl. 2—67.)



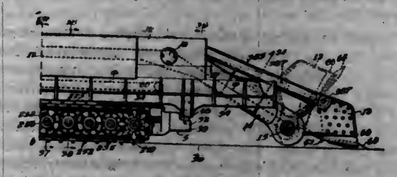
1. As an article of manufacture, a bathing suit having a waist portion provided with shoulder straps and a nether portion and a brassière connected with the waist portion at the top and bottom to insure that any strain applied to the brassière will be along substantially vertical lines.

1,749,967. CONDENSER. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed June 11, 1927. Serial No. 198,104. 7 Claims. (Cl. 175—41.5.)



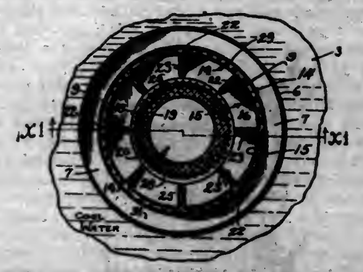
1. A condenser construction comprising a stationary element having cylindrical condenser plates and a movable element having cylindrical condenser plates cooperating with said stationary plates, manually operable means for actuating the movable element for increasing or decreasing the capacity, and adjustable means for varying the capacity curve of the condenser, comprising means whereby the capacity corresponding to the maximum capacity position of the manually operable actuating means may be varied without as great a variation of the capacity corresponding to the minimum capacity position of the manually operable actuating means.

1,749,968. EXCAVATING AND LOADING MACHINE. JOHN H. BLAIR, Chicago, Ill. Filed Apr. 26, 1926. Serial No. 104,527. 13 Claims. (Cl. 214—90.)



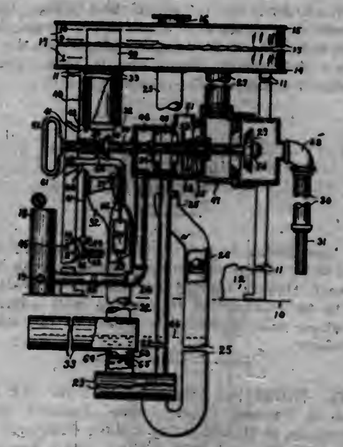
1. In a machine of the class described, the combination of a main frame, a laterally swingable frame thereon, an extensible frame on said laterally swingable frame, a swingable arm at the outer end of said extensible frame, and a material member pivoted for swinging movement at the outer end of said arm.

1,749,969. WATER HEATER. ARVID BRODIN, Los Angeles, Calif. Filed Jan. 3, 1928. Serial No. 244,107. 13 Claims. (Cl. 219—38.)



2. A liquid heater comprising a shell having an inlet below, and an outlet above an intermediate level; means to supply liquid to the inlet; a drum arranged inside and narrowly spaced from the walls of the shell to form an outer passageway for fluid, and formed with folds constituting narrow channels open at top and bottom and open at the periphery of the drum to communicate with the outer passageway; said folds being arranged to form the outer wall of a chamber adjacent to and enclosed by the walls of said channels and passageway; heads to close said chamber; an electrical heating element in the chamber, and switch controlled means to supply current to such element.

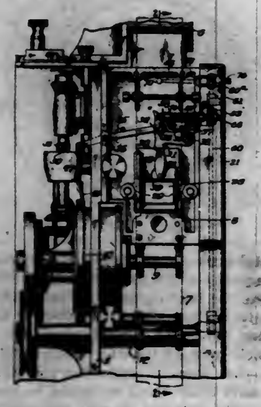
1,749,970. AUTOMATIC LIQUID-DISPENSING MACHINE. ROBERT E. COLLINS, Topeka, Kans., assignor of twenty-five per cent to Constantine G. Chumos, Topeka, Kans. Filed Feb. 13, 1928. Serial No. 254,098. 7 Claims. (Cl. 221—100.)



1. A gasoline dispensing machine comprising a measuring vessel in communication with a source of the liquid supply and having an outlet for dispensing the gasoline and an overflow, a source of compressed air in communication with the gasoline source for lifting the fuel to the measuring vessel, an adjustable measuring device associated with the overflow, valve means for controlling the outlet from the measuring vessel, a second valve means for controlling the supply of compressed air to the gasoline source,

and a single operating means connecting both said valve means for alternate opening and closing, and latch means for said operating means positioned to be released upon movement of the liquid through the overflow.

1,749,971. FIRE SHUTTER AUTOMATIC RELEASE. AUGUSTO DINA, Jersey City, N. J., assignor to The Precision Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 5, 1925. Serial No. 54,621. 11 Claims. (Cl. 88—17.)



7. In a motion picture projector, a film gate having an aperture, a film strip moving across said aperture, means for forming a loop in said film, a shutter for closing said aperture, a governor operated by the projector having a positive connection to and for holding said shutter open, and means including an angularly displaceable arm within the loop operated by a reduction in dimension of said loop for actuating said positive connection for releasing the shutter to close the same irrespective of said governor.

1,749,972. CAST-METAL TRUCK BOLSTER. HARRY C. DREIBUSS and GEORGE S. CHILES, St. Louis, Mo., assignors to Scullen Steel Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 9, 1928. Serial No. 268,639. 8 Claims. (Cl. 105—230.)



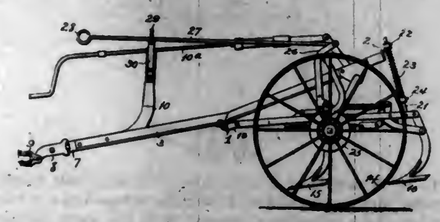
1. A cast metal bolster having hollow end portions provided with reinforcing trusses disposed so as to cause the upward thrusts exerted on the bottom wall of the bolster to be transmitted to the top wall adjacent the points where said top wall is joined to the side walls of the bolster.

1,749,973. HOISTING ANCHORAGE FOR CAR ROOFS. EDWIN G. FRANCK, Detroit, Mich., assignor, by mesne assignments, to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Delaware. Filed Jan. 3, 1927. Serial No. 158,707. 2 Claims. (Cl. 105—355.)



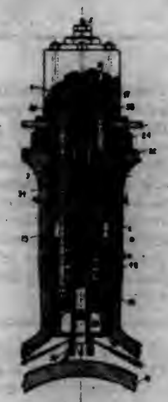
1. The combination with a car roof comprising a plurality of carlines extending transversely of the car, of a beam extending centrally and longitudinally beneath said carlines and attached thereto, said beam being of inverted channel shape and having its base secured to a plurality of the said carlines, said beam being provided with outstanding flanges at the bottom of its sides and a loop provided with inturned hooks for engaging said flanges adjustable thereon longitudinally of the car.

1,749,974. CULTIVATOR. ARTHUR D. GALLAGHER, South Bend, Ind., assignor, by mesne assignments, to Oliver Farm Equipment Company, a Corporation of Delaware. Original application filed July 23, 1924, Serial No. 727,743. Divided and this application filed Mar. 22, 1927. Serial No. 174,871. 3 Claims. (Cl. 97—233.)



1. In a cultivator, the combination of a frame comprising front and rear transverse members, longitudinal members fixedly connected with both transverse members between the ends thereof, a crank-axle, mountings for said axle carried by the longitudinal members near the rear ends thereof, carrying wheels in which said crank-axle is mounted beyond the ends of the transverse members, cultivator gang units pivotally connected at their forward ends to the front transverse beam, and means yieldably connecting the rear portions of the gang units with the rear transverse beam.

1,749,975. FUEL-SUPPLYING DEVICE. JOSEPH C. GEOFF, New York, N. Y. Filed Aug. 6, 1924. Serial No. 730,333. 12 Claims. (Cl. 123—33.)



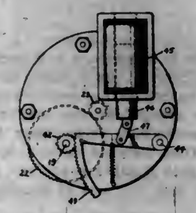
1. A fuel supplying system for internal combustion engines of the compression ignition type comprising in combination, fuel injecting means comprising a differental piston device operated by the pressure developed within the power cylinder, and means comprising a member extending entirely through hollow portions of said piston into the combustion cylinder and fixed against motion upon the relative movement of said piston for immediately injecting the fuel upon and by the initial displacement of the differential piston device.

1,749,976. PROCESS OF REFINING EDIBLE OILS. ROGER B. HILL, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Nov. 30, 1923. Serial No. 677,885. 5 Claims. (Cl. 87—12.)

1. That step in decolorizing and refining edible oils and fats which consists in subjecting such oils to the action of from 0.05% to 0.15% of sulphuric acid solution of 30% to 75% by weight of H_2SO_4.

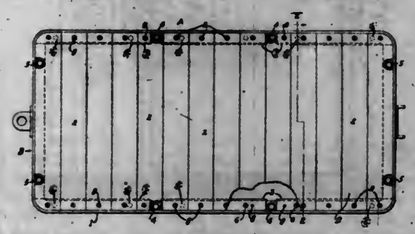
3. A process of refining an edible oil, which comprises treating the oil with 0.05% to 0.15% of a solution of 30% to 75% by weight sulphuric acid, neutralizing the sulphuric acid and also the free fatty acid content of such oil, adding sufficient bentonite to coagulate the neutralized impurities, and removing the coagulated impurities from the oil.

1,749,977. PARKING CLOCK. BENJAMIN F. HUTCHES, Jr., Allendale, N. J., assignor to Hutches Engineering Association, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 28, 1923. Serial No. 683,159. 17 Claims. (Cl. 161—15.)



1. A parking clock mounted upon a movable device comprising a graduated dial, a hand adapted to pass over said dial to indicate elapsed time, means to drive said hand, means controlled by the movement of the device upon which said clock is mounted for maintaining the hand at a certain initial position, and the aforesaid means becoming inoperative upon the cessation of movement of said device to enable the drive means to operate the hand.

1,749,978. TRUCK. FRANK G. KOEHLER, St. Louis, Mo. Filed Sept. 29, 1928. Serial No. 309,253. 2 Claims. (Cl. 280—49.)



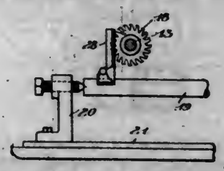
1. A truck having a deck portion including a deck frame arranged about the marginal edge of said deck portion, said deck frame being substantially T-shaped in cross-section and having a horizontally disposed leg portion arranged to provide the deck frame with marginal recesses arranged one above the other, one of which is deeper than the other, said deck frame being reversible top for bottom to present one or the other of said recesses at the top of the deck frame, deck boards having their end portions disposed in the recess located at the top of the deck frame and supported by the horizontal leg of the deck frame structure to present the top surfaces of said deck boards substantially flush with the top edge of the deck frame, said deck boards having fillers interposed between the same and said horizontal leg when the end portions of said deck boards are disposed in the deeper of said recesses upon reversal of the deck frame.

1,749,979. DOOR-HOLDING MEANS. DAVID R. LASIER, Chicago, Ill., assignor to Norton Lasier Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 4, 1926. Serial No. 139,534. 1 Claim. (Cl. 16—49.)



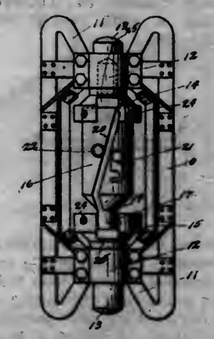
In a door holding device, a pair of arms, adapted to be pivotally attached to a door and door frame respectively, said arms being pivoted together, one of said pivots comprising a yoke on one of said arms having opposed flat faces, and a head on the part pivoted to said yoke having a flat face on one side and a spiralled cam face on its opposite side, said head being located between the flat faces of said yoke with its flat face in contact with one of the flat faces of said yoke, and an independent head having a flat face on one side and a cooperating spiral cam face on its other side, located between said first named head and the opposite face of said yoke with its spiral cam face in contact with said first named spiral cam face and immovable relative to said yoke, the distance between the faces of said yoke being such that a predetermined amount of movement of one cam face on the other cam face is permitted, whereas a binding of the parts is caused upon additional movement, and means for adjusting angularly the position of said second head relative to said yoke.

1,749,980. GAUGING INSTRUMENT. EDWARD OSCAR LORSER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 26, 1925. Serial No. 11,854. 5 Claims. (Cl. 33—181.)



5. A gauging instrument for relatively movable parts comprising walls forming a substantially V-shaped groove, walls forming a second groove having its axis in a plane bisecting the angle of said first groove, and a spirit level having its axis perpendicular to said bisecting plane.

1,749,981. METHOD OF MAKING DRILL STEMS. GUSTAVUS A. MONTGOMERY, Dallas, Tex. Filed Apr. 11, 1927. Serial No. 182,913. 7 Claims. (Cl. 76—108.)

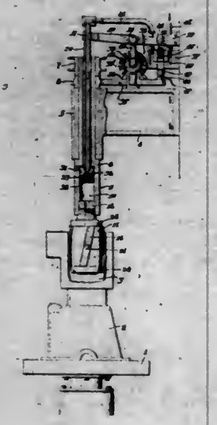


1. The method of making a well drill stem having helical wings, which consists in shaping the helical wings by

a separate operation, then positioning said wings on the outer surface of a drill stem mandrel, and then welding said wings to the mandrel by an interposed body of welding metal.

4. The method of making a well drill stem having helical wings, which consists in forming a wing blank from a stock bar by shearing the same, then heating said blank, then swaging the heated blank in a suitable forming device to a helical form and at the same time ramming the ends of the blank to conform to the diameter of the drill stem mandrel, then assembling a plurality of said helical wings in a jig about a drill stem in cruciform order, and then welding said wings to the mandrel.

1,749,982. BURNISHING MACHINE. JAMES W. NESBITT, Grosse Pointe Park, Mich. Filed Oct. 22, 1928. Serial No. 314,108. 10 Claims. (Cl. 29—90.)



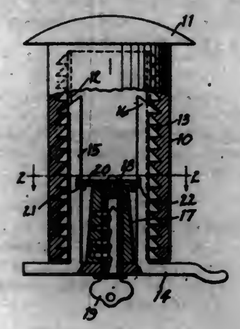
1. In a burnishing machine, a head adapted to enter a cylinder bore, laps carried by said head, a rotatable spindle supporting said head, means permitting the flow of lubricating fluid under pressure through said spindle into said head and through said laps, and means in said spindle for intermittently increasing the pressure of said fluid.

1,749,983. STAPLE AND HASP CONSTRUCTION. DANIEL NELSON, Oak Park, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1926. Serial No. 146,588. 7 Claims. (Cl. 292—281.)



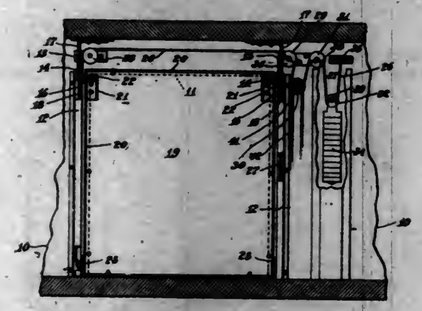
1. Latching means for hasps comprising an attaching base, and an inherently resilient staple constructed with one leg fixedly mounted on said base and its other leg movably anchored to the base and having a limited movement relative to the fixed leg, said movably anchored leg having a recess adapted to engage a hasp and adapted to pass an interengaging portion of said hasp to and from its recess by the resilient action of the staple.

1,749,984. WHEEL-RIM LOCKING BOLT. LUIS V. NOGUEIRA, Dallas, Tex. Filed May 21, 1928. Serial No. 279,420. 5 Claims. (Cl. 70—90.)



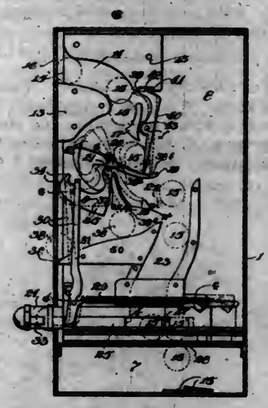
1. In a wheel rim bolt device, a bolt barrel open at one end and having a head at its opposite end, longitudinal guides within the barrel having countersunk teeth, a rim lug, movable arms carried by the lug and having dogs engaging in the guides and teeth when inserted in the barrel, a key rotated member carried by the lug, and means rotated by said member connected with said arms for swinging them into and out of engagement with the teeth.

1,749,985. WAREHOUSE DOOR. ROBERT S. PEELLE, New York, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 10, 1925. Serial No. 22,189. 10 Claims. (Cl. 20—19.)



1. A warehouse door embodying therein vertically extending guides adjacent the wall of a building and upon opposite sides of a door opening therein, overhead tracks leading from but not communicating with said vertical guides and extending inwardly of the building, the portion of said tracks adjacent said vertical guides having a gradual ascent leading from adjacent the lintel of the door opening to a horizontal portion, each of said tracks comprising parallel rail sections, a door panel adapted to close the door opening, devices adjacent the top of said panel in continuous engaging relation between said rail sections and co-operating only with said overhead tracks respectively, whereby at all times a support is afforded the upper portion of said panel, devices adjacent the bottom of said panel movable in said vertical guides, sheaves above said guides respectively, a counterweight, flexible connections between said counterweight and the lower portion of said panel and passing over said sheaves, and means operative upon said flexible connections whereby the panel may be opened and closed.

1,749,986. SLUG EJECTOR. ALBERT S. ROSS, Dallas, Tex. Filed Aug. 22, 1927. Serial No. 214,515. 6 Claims. (Cl. 194—103.)



1. A slug ejector having a coin-selecting beam, a slug passageway, said beam having an opening therein through which slugs of less than a predetermined width may pass into said slug passageway, and means to release slugs of greater width caught in said opening and to direct the same into said slug passageway.

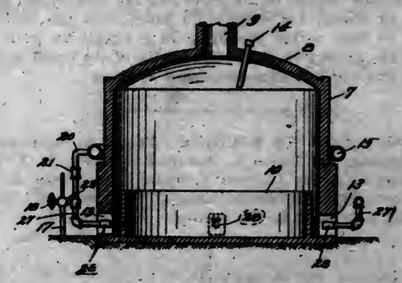
1,749,987. BROOM OR THE LIKE. SAMUEL G. RUSSELL, ERNEST L. BUCHANAN, and ROSSITER R. POTTER, Kalamazoo, Mich., assignors to Shakespeare Products Company, Kalamazoo, Mich. Filed July 12, 1928. Serial No. 292,148. 14 Claims. (Cl. 15—171.)



1. An implement of the class described comprising a head member formed of strands of wire having helical coils therein providing a helix adapted to receive a handle, the strands being twisted together at each side of the helix and having their ends upturned, fibres folded over said head member, the upturned ends of the head member being clamped upon the folded fibres, a U-shaped clamping member arranged over the fold of the fibres to engage the ends of said head member, a clamping band disposed below said head member in coengaging relation with the lower ends of said clamping member, said clamping member having a hole therein to receive the handle, and tie members arranged through the fibres to engage opposite sides of said band, one or more of said tie members being arranged through the ends of said clamping member.

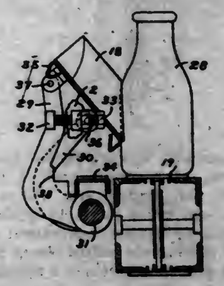
1,749,988. TERRA-COTTA-FIRING SYSTEM. ALBERT H. SHEFFIELD, Kansas City, Kans. Filed Apr. 15, 1927. Serial No. 183,948. 2 Claims. (Cl. 25—145.)

1. In a terra cotta firing system, a kiln having a continuous side wall, and an entirely closed bottom, a relatively low bag wall extending around the inside of said kiln to form a continuous space between said side wall and bag wall a continuous bottom between said side wall and



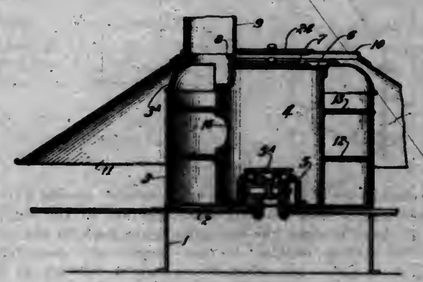
bag wall substantially in the plane of the bottom of said kiln and a plurality of openings extending thru said side wall and communicating with said continuous space.

1,749,989. BOTTLE-WASHING MACHINE. GEORGE F. SOELCH, Waukesha, Wis., assignor, by mesne assignments, to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1925. Serial No. 65,569. 8 Claims. (Cl. 198—27.)



1. In combination, bottle transporting means, a support formed to receive bottles in tilted position from said means, and means for swinging said support about a pivot at one end thereof to right the bottles and for swinging said support about a pivot at the opposite end thereof to discharge the righted bottles from said support.

1,749,990. OIL-BURNING BROODER. DONALD B. TOLLEY, Macomb, Ill., assignor to American Steel Products Co., Macomb, Ill., a Corporation of Illinois. Filed Nov. 8, 1928. Serial No. 317,927. 16 Claims. (Cl. 126—93.)



1. A heater comprising an annular drum having an outlet adjacent to its top, annular partitions dividing the hollow drum into superposed chambers, a heating device within the combustion chamber, an outlet in the combustion chamber wall, ports in the partitions, and up-

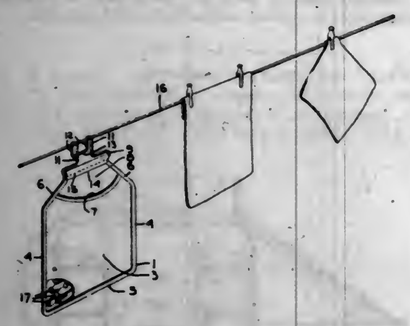
right and substantially radial baffles extending from the inner to the outer drum wall; the baffles being so arranged with respect to the ports and the first named outlet as to compel the combustion gases from the heating device to flow within the drum in a circuitous path in which the gases flow circumferentially of the drum in opposite directions in two superposed sections.

1,749,991. TESTING MACHINE. FRANK A. VALENTINE, Apponaug, and DAVID C. SCOTT, Providence, R. I., assignors to Henry L. Scott Company, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 22, 1926. Serial No. 143,373. 13 Claims. (Cl. 265—12.)



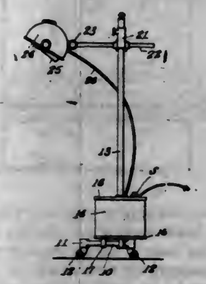
1. In a testing machine, a work clamp comprising two work engaging jaws, driving mechanism, a pull member interposed between one clamp jaw and said driving mechanism and through which power is applied upon the clamp and work, and mechanism independent of the driving mechanism for moving the pulled clamp jaw towards the other clamp jaw after completion of a pulling operation.

1,749,992. CLOTHESPIN BAG. WILLIAM N. WILLIS, Medford, Mass. Filed Nov. 3, 1927. Serial No. 230,819. 1 Claim. (Cl. 68—11.)



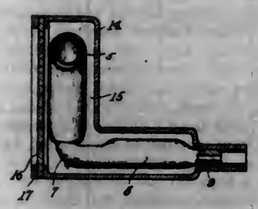
A clothes-pin bag comprising a bag member having a front section and a back section sewed together at the bottom and at the side edges, the side edges being parallel throughout the greater portion of that length and converging sharply towards each other for a limited distance at the upper end, the top edge of the front section being concavely curved and the back section extending somewhat beyond the top of the front section, the edges of such extension continuing on the converging lines of the upper part of said side edges to provide a relatively narrow flap, and a supporting member made of wire bent to form a straight supporting portion to which the upper edge of the back section is secured, said wire at the ends of the supporting portions being bent backwardly towards the center to form portions parallel with the supporting portion, said wire being also bent to present upwardly-bent portions at the termination of the backwardly-bent portion, said upwardly-bent portions each terminating in a relatively short upwardly bent portion, the lower ends of the upwardly-bent portion being directly connected by a bridge portion whereby a relatively wide hook is formed adapted to be hung on a suitable support.

1,749,993. ALTERNATING-CURRENT VAPOR ELECTRICAL DEVICE. WILLIAM T. ANDERSON, Jr., Newark, N. J., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J., a Corporation of New Jersey. Filed Feb. 23, 1926. Serial No. 89,924. 1 Claim. (Cl. 174—177.)



In combination with a mercury vapor lamp emitting ultra violet radiations for therapeutic use, an alternating current device for operating said lamp, a secondary reactance included in said device, said reactance having a solid iron core consisting of a base provided with three spaced integral upstanding bars, a coil of insulating wire wound about the central bar, and dielectric plugs over said coil within the spaces between the upstanding elements.

1,749,994. WATER-COOLED MERCURY-VAPOR ARC LAMP. WILLIAM T. ANDERSON, Jr., Newark, N. J., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J., a Corporation of New Jersey. Filed May 13, 1927. Serial No. 190,974. 3 Claims. (Cl. 176—43.)

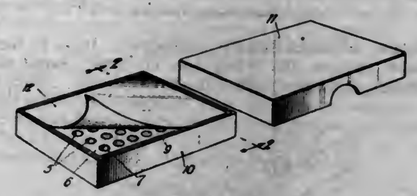


1. A mercury vapor arc lamp comprising a quartz arc tube in the form of a loop and having rearward extensions at right angles from its lower end, a quartz envelope enclosing the loop portion of said tube, said envelope being shaped in conformity with and equally spaced from said tube, a jacket surrounding said envelope and tube, and means in said jacket to permit a circulation of water therethrough.

1,749,995. PROCESS FOR SECURING GOOD ELECTRICAL CONTACT WITH CRYSTALLINE CUPROUS OXIDE. WILLIAM THEODORE ANDERSON, Jr., and LESTER FLETCHER BIRD, Newark, N. J., assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 28, 1927. Serial No. 229,523. 2 Claims. (Cl. 204—2.)

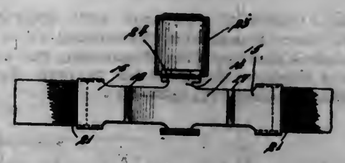
2. Process for the production of a continuous electrically conducting, adherent metallic layer strongly attached to a surface of crystalline cuprous oxide, by the electrolytic reduction of the outermost surface of the copper oxide and simultaneous deposition of metallic nickel which with the reduced copper form a bronze metallic layer.

1,749,996. PACKAGE FOR PERISHABLE MEDICATED ARTICLES. ALBERT D. BRUSH, Chicago, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1928. Serial No. 298,228. 3 Claims. (Cl. 206—46.)



1. A package for medicated articles or the like, which tend to deteriorate upon exposure to the atmosphere or to lose their shape, comprising a substantially rigid block of impervious material provided with a plurality of sockets opening to one side of said block, said sockets being closed at their other ends by a portion of said block, each of said sockets being adapted to snugly receive one of the articles to be packaged, and a cover sheet of impervious material adhered to said side of the block and extending over the open ends of said sockets, said cover sheet being adapted to be partially removed from time to time to permit withdrawal of one of the articles from its socket.

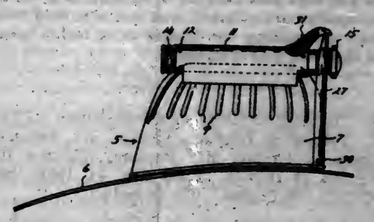
1,749,997. EXTENSION DEVICE. EDWIN G. CARLSON, Riverside, R. I., assignor to Speidel Chain Co., a Firm composed of Frederic Speidel and Eugen Speidel, Pforzheim, Germany, doing business in Providence, R. I. Filed Nov. 7, 1928. Serial No. 317,739. 8 Claims. (Cl. 29—71.)



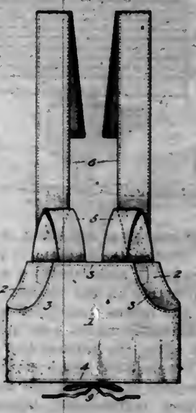
1. An extension device for a wrist strap, comprising a body section and an end section hinged to each end of said body section to fold thereover toward each other, each end section having opposed flanges at the free end thereof, means extending between said flanges for securing a strap end thereto, the combined length of said end sections being no greater than the length of the body section whereby the end sections do not overlap, and means for securing said sections in folded position.

1,749,998. FIREMAN'S HELMET. MERRILL D. COLLINS, Detroit, Mich. Filed Apr. 4, 1928. Serial No. 267,282. 6 Claims. (Cl. 240—60.)

1. In a helmet including a crown having a grooved portion therein, a cover plate secured to the crown so as to bridge said grooved portion, a pair of threaded end members secured to the cover plate, a flashlight bulb assembly mounted upon one of said end members, batteries for energizing the flashlight bulb arranged in the grooved portion, and an adjustable cap mounted upon the other threaded end section.

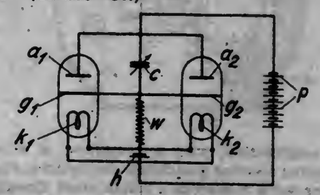


1,749,999. MANUALLY-HELD SUPPORTING DEVICE FOR ASSISTING CHILDREN IN LEARNING TO WALK. EDNA L. CROCKER, Denver, Colo. Filed Nov. 30, 1928. Serial No. 322,606. 2 Claims. (Cl. 155—20.)



2. In a supporting device of the character described, a body band of sufficient length to surround the body, and of sufficient width to extend from the chest to below the abdomen, the ends of the band being at the back, and being connected by a lacing cord, and relatively long looped hand straps, the ends of which are secured to the back of the band at the upper edge thereof, whereby the pull on the straps in supporting a child is sustained by the abdomen.

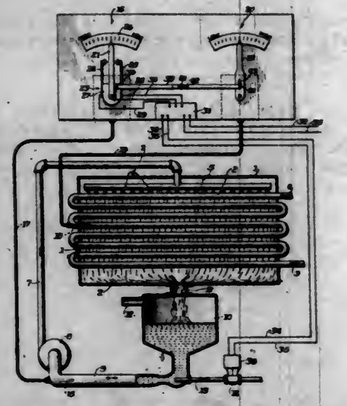
1,750,000. GENERATOR OF SHORT ELECTRIC WAVES. ABRAHAM ESAU, Jena, Germany. Filed Nov. 2, 1926, Serial No. 145,737, and in Germany Nov. 10, 1925. 2 Claims. (Cl. 250—36.)



1. An apparatus for the generation of short electric waves comprising in combination two three-electrode vacuum tubes of equal dimensions having incandescent cathodes, grid electrodes and anodes, wires connecting the corresponding electrodes of said tubes, and a capacity inserted symmetrically to said tubes between the wires con-

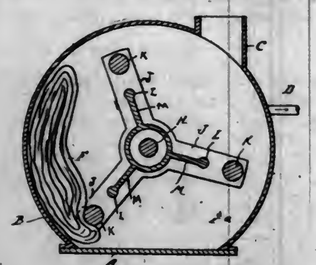
necting said grid and said anode electrodes whereby two oscillating circuits constituted by the respective inherent grid-anode capacities in series with part of said connecting wires and with said capacity of substantially the same natural frequency are obtained, and means in said circuits for always maintaining the anodes at a higher positive potential than the grid electrodes.

1,750,001. DUAL-CONTROL TEMPERATURE REGULATION. JOSEPH H. GODFREY, Chicago, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 24, 1928. Serial No. 301,757. 20 Claims. (Cl. 236—18.)



1. Apparatus of the class described comprising, a conduit for liquid, a conduit for medium in heat exchange relation thereto, means for maintaining a variable determinable normal temperature in the medium supplied to said medium conduit, and means associated with said medium temperature maintaining means and automatically operable therewith to effect the raising and lowering of said medium normal temperature responsively respectively to decreases and increases of temperature maintained by said medium temperature maintaining means in the liquid passing a portion of said liquid conduit.

1,750,002. APPARATUS FOR HANDLING DOUGH. JAMES C. GORDON, Detroit, Mich. Filed Feb. 15, 1929. Serial No. 340,068. 7 Claims. (Cl. 107—30.)



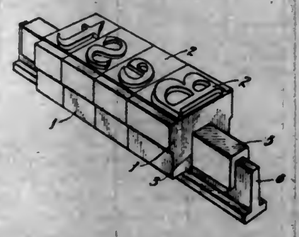
2. The combination, with a container, of a rotatable dough-engaging member positioned therewithin, the web of said member being formed as a hollow shaft through which a fluid refrigerant is adapted to be passed, and radially extending vane members extending outwardly from said hollow shaft portion of the dough-engaging member, whereby the air surrounding the same and which has been subjected to the cooling influence thereof is agitated centrifugally.

1,750,003. DRYING APPARATUS. HERMANN HAAS, Lennep, Germany. Filed Nov. 24, 1928, Serial No. 321,714, and in Germany Feb. 22, 1928. 4 Claims. (Cl. 198—165.)



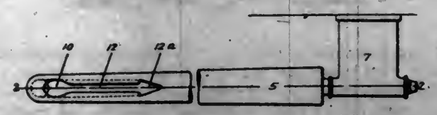
1. In a dryer for drying cellulose plates, the combination with an endless conveyor operating at a uniform speed to convey packages of plates through a drying chamber, of means for giving the packages on the upper run of the conveyer simultaneously a rocking motion while being conveyed by the conveyor.

1,750,004. RUBBER-STAMP ASSEMBLY. HANS H. HELLESOE, Chicago, Ill. Filed Apr. 17, 1929. Serial No. 355,790. 7 Claims. (Cl. 101—381.)



1. A stamping outfit comprising blocks of counterpart heights having legend faces on their lower ends and having transverse grooves of uniform section in their upper ends, a compressible liner longer than the width of a plurality of the said blocks and extending through the grooves in the blocks when the blocks are aligned, the liner having a channel-shaped transverse section, and a rigid carrier bar of somewhat greater thickness than the normal interior width of the channel of the liner and adapted to be inserted in the liner, the liner being detachable from the said blocks when the carrier bar is not inserted in the liner.

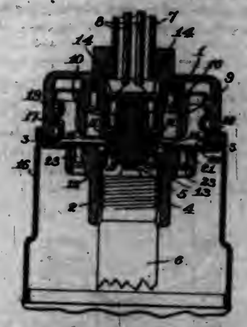
1,750,005. HOSIERY TURNING AND INSPECTING FORM. HUGO HEMMERICH, Wyomissing, Pa., assignor to Berkshire Knitting Mills, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Jan. 15, 1927. Serial No. 161,389. 4 Claims. (Cl. 223—20.)



1. A turning and inspecting device for stockings consisting of a stocking-extending form the toe-engaging entering head of which is provided rearward of the tip portion thereof with a transverse passage way for a collapsed stocking.

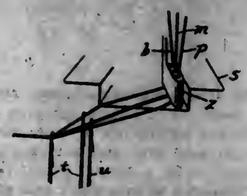
1,750,006. ELECTRIC-LIGHT FIXTURE. GERALD J. HENRY, Boston, Mass. Filed Aug. 16, 1928. Serial No. 300,053. 6 Claims. (Cl. 240—85.)

1. In an electric light fixture, the combination with a base member having circuit terminals, of a reflector separable from the base and having means for connecting it thereto by a turning movement and a lamp socket swiveled to the reflector and provided with terminals adapted to be



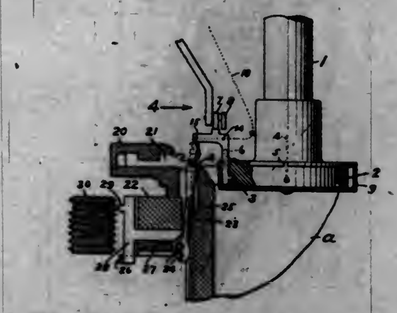
engaged with those of the base by an axial movement, said swivel connection permitting the engagement of the terminals during the turning movement of the reflector.

1,750,007. PROCESS OF KNITTING PLATED FABRIC. HAROLD E. HOUSEMAN, Edge Moor, Del., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 15, 1928. Serial No. 261,734. 13 Claims. (Cl. 66—36.)



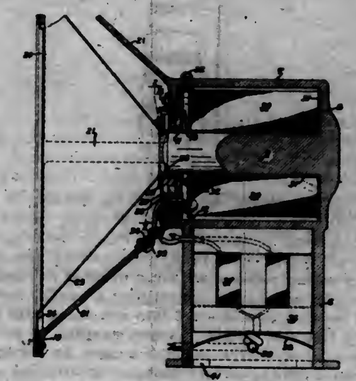
13. The process of producing on a knitting machine a plated knitted fabric which comprises feeding three threads simultaneously to the needles and so manipulating the threads as to cause certain needles to knit the threads into the fabric in a certain order from face to back to knit normal plated fabric, and prematurely depressing certain needles to cause them to engage the threads that are positioned on the face and in the center in said normal plating and also manipulating the last named needles to reverse the positions of these threads in fabric which they knit.

1,750,008. PROCESS AND MACHINE FOR KNITTING PLATED FABRIC. HAROLD E. HOUSEMAN, Edge Moor, Del., assignor to Standard-Trump Bros. Machine Company, Wilmington, Del., a Corporation of Delaware. Filed June 2, 1928. Serial No. 282,306. 8 Claims. (Cl. 66—135.)



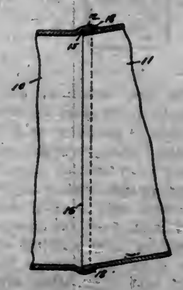
8. In a machine for knitting hosiery, a series of independent needles adapted to be reciprocated lengthwise to knit, sole wrapping yarn carriers arranged in operative relation to needles adapted to knit the sole, toe, heel and rear of the leg, instep wrapping yarn carriers arranged in operative relation to needles adapted to knit the instep and front part of the leg, said yarn carriers being movable back and forth laterally, means to effect a movement of certain needles away from and back to the normal knitting plane in such timed and spaced relation to the movements of their respective yarn carriers as to cause the wrapping yarns carried by said yarn carriers to be wrapped around the espective needles, the two specified series of yarn carriers being provided with differently positioned butts, two yarn carrier actuating cams adapted to respectively engage differently positioned butts, and means to render both cams active or inactive or one cam active and the other inactive, whereby all the wrapping yarn carriers are actuable when both cams are rendered operative while only the instep wrapping yarn carriers are actuable when only its actuating cam is rendered operative and none of the wrapping yarn carriers are actuable when neither cam is rendered operative.

1,750,009. ELECTROMAGNETIC SOUND REPRODUCER. KARL K. JENSEN, Piedmont, Calif. Filed Jan. 28, 1928. Serial No. 250,193. 2 Claims. (Cl. 179—115.)



2. In an electromagnetic sound reproducer, an annular pole-piece, an annular flange for supporting a diaphragm, and supporting members mounting said flange on the pole-piece, said pole-piece, flange and supporting members being formed from a single casting.

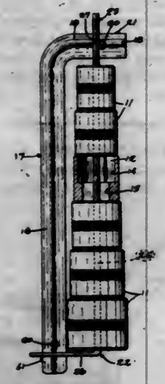
1,750,010. METHOD OF MAKING WELDED JOINTS FOR STEEL PIPE. FRED C. KING, Portland, Oreg. Filed Nov. 11, 1926. Serial No. 147,711. 2 Claims. (Cl. 113—112.)



1. A method of joining pipes together by a welding process consisting of forming a flared bell on the end of one

pipe for a length of approximately one twentieth of its diameter, then driving a second straight pipe into said bell to seat against its shoulder, then heating and laying said flared bell metal to metal against the outside of said straight pipe and then welding the end of said bell to said straight pipe, the completed joint not forming a recess for the lodgement or circulation of liquids passing through the pipe.

1,750,011. SOCKET-WRENCH SET. JOSEPH KNEIER, Cleveland, Ohio, assignor to The Vichek Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 17, 1927. Serial No. 240,792. 6 Claims. (Cl. 206—16.)



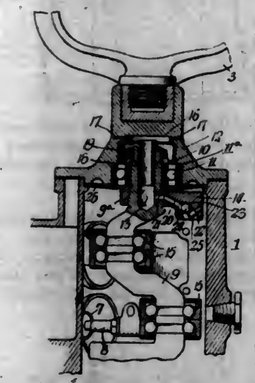
1. A socket wrench set holder, for holding a set of sockets each having an aperture extending therethrough and terminating at one side in a handle-receiving recess and at the other side in a nut-receiving recess, said handle-receiving recesses all being adapted to receive the same handle, said holder comprising: a handle, formed at at least one end to be inserted into any one of said handle-receiving recesses; and a stringer, adapted to be passed through said apertures of said sockets to receive said sockets on a portion of said stringer, and formed on each side of said portion to be secured to said handle.

1,750,012. GAS-LINE VALVE. JACOB LERNER, Chicago, Ill. Filed June 5, 1928. Serial No. 283,099. 1 Claim. (Cl. 251—99.)



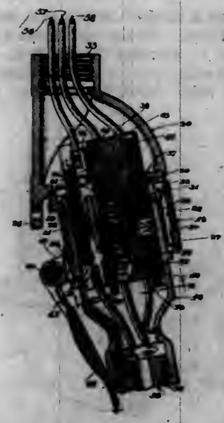
In a valved gas line coupling, an angular casting having threaded bores in its ends to receive the gas pipes and a gas passageway connecting said bores, the lateral faces of said casting being recessed, a valve extending transversely through said casting and through said gas passageway and terminating flush with said casting recess, said valve being formed with a port adapted to pass into and out of registry with said gas passageway, a pointed indicator head fixed to said casting contiguous to one lateral face recess, stop lugs located in the said lateral face recess, one of said lugs being disposed contiguous to said indicator head and the other lug remote therefrom, an indicator body portion fixed to and movable with said valve, the ends of said body portion extending into said lateral face recess for contact with said stop lugs and, in one position of said valve, for cooperation with said indicator head, a friction disc adjustably secured to the opposite end of said valve and bearing against one face recess, and a key for rotating said valve.

1,750,013. CRANK-CASE-VENTING MEANS FOR PNEUMATIC TOOLS. AXEL LEVEDAHL and REINHOLD A. NORLING, Aurora, Ill., assignors to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 8, 1923. Serial No. 673,471. 2 Claims. (Cl. 121—33.)



1. In a piston actuated pneumatic tool, the combination with a crank case, of a handle carrying block at one end of the case and having one or more air outlet ports, a crank shaft in said case and having an end journal supported by said block, a counter-weight in said case at said block and mounted on said shaft, said shaft and counter-weight having air outlet passages communicating with the exterior of the case and ports, respectively, and a valve carried by the counter-weight in the passage thereof for controlling the same, said valve being opened by centrifugal forces set up on rotating the crank shaft.

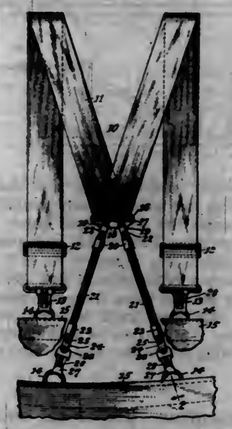
1,750,014. ELECTRIC-CURRENT CONNECTION. JOHN LOFGREN, Chicago, Ill., assignor to Ralco Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 6, 1928. Serial No. 244,793. 1 Claim. (Cl. 173—332.)



A connector comprising a socket member and a plug member, insulating blocks removably supported in each

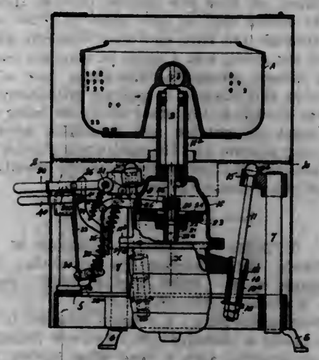
member, lugs in said socket member of different shapes and positions, said insulating block for said socket having correspondingly shaped and positioned recesses for assembly in but one position, said plug member and its insulating block having cooperating means for allowing assembly in but one direction, and each block carrying flat contacts arranged in different angular positions in the blocks to allow plug insertion in but one position.

1,750,015. SUSPENDERS FOR OVERALLS. BELA MESZAROS, New York, N. Y. Filed Mar. 25, 1929. Serial No. 349,623. 3 Claims. (Cl. 241—27.)



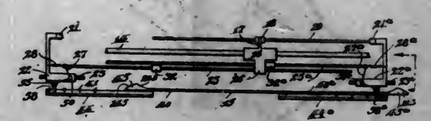
1. In a suspender having a shoulder web and devices thereon for attaching the same to overalls, a cross plate through which said shoulder web is passed, a plate extension on said cross plate, hook devices adapted to engage the overalls, also having plate extensions, oppositely placed pairs of sleeve heads pivoted to the plate extension on said cross plate and to the extension of a hook device, respectively, an expansible coil spring, the ends of which are arranged within said pair of sleeve heads and secured therein, and a limiting chain within said coil spring, the two ends of said chain being also secured in said sleeve heads.

1,750,016. CENTRIFUGAL MACHINE. CHRISTIAN F. MEYER, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Nov. 30, 1925. Serial No. 72,173. 4 Claims. (Cl. 210—72.)



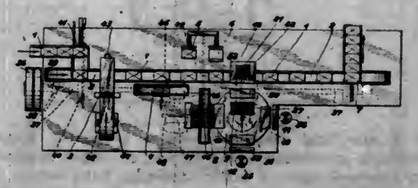
1. In a centrifugal machine comprising a supporting frame and a motor-and-shaft housing having a limited bodily movement thereon; a container-carrying motor shaft having a movable brake sleeve thereon, a sleeve-engaging lever pivoted to said housing, and a starting lever pivoted to said frame and having flexible connections to said sleeve-engaging lever whereby it is adapted to reversely operate said sleeve irrespective of the housing position relative to the frame.

1,750,017. SHOCK-ABSORBING CARRIER-ROD STOP MECHANISM FOR FULL-FASHIONED KNITTING MACHINES. CHRISTIAN F. MEYER and GOTTLOB BITZER, Wyomissing, Pa., assignors to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1929. Serial No. 334,641. 12 Claims. (Cl. 66—130.)



1. In a full fashioned knitting machine having a thread-carrier rod and means for reciprocatively operating the same, a momentum-absorbing rod-stop mechanism comprising a longitudinally movable stop rod for said reciprocated carrier rod periodically engageable with the latter, and means operated by said carrier rod reciprocative means to progressively decrease the speed of said stop rod longitudinal movement to a full stop during said periodical carrier rod engagement.

1,750,018. CIGARETTE-PACKING MACHINE. GÜNTHER MEYER-JAGENBERG, Dusseldorf, Germany. Filed May 16, 1928, Serial No. 278,274, and in Germany May 18, 1927. 10 Claims. (Cl. 226—5.)

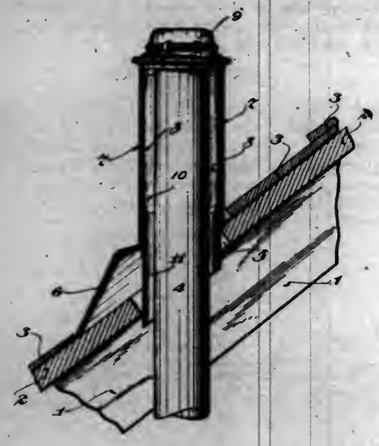


1. In a device of the kind described, rotatably mounted holders for holding a plurality of articles, and turning means engaging the holders for rotating the same so as to turn the articles side for side.

1,750,019. ROOF FLASHING AND JACKET. FRANCIS J. MOORE, Minneapolis, Minn. Filed Nov. 3, 1928. Serial No. 316,970. 1 Claim. (Cl. 285—31.)

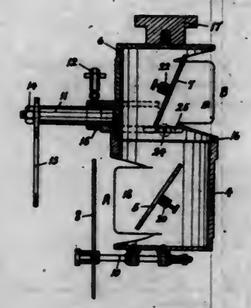
The combination with a flashing having a raised intermediate portion, of a vent pipe jacket, the lower end of

which is supported on said intermediate portion of the flashing and rigidly secured thereto, and a spacing sleeve



telescoped into the jacket, extending through the raised intermediate portion of the flashing and below said flashing.

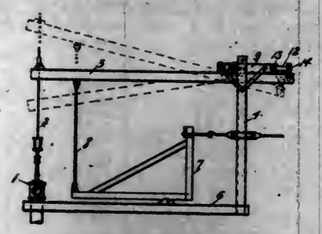
1,750,020. CINEMATOGRAPH PROJECTION APPARATUS. JAMES SWORD NAIRN, Wardie, Edinburgh, Scotland. Filed Oct. 21, 1927, Serial No. 227,784, and in Great Britain Nov. 5, 1926. 6 Claims. (Cl. 240—3.)



3. A spot-light attachment for a projection lantern comprising a vertical casing having an upper apertured part rotatable upon a lower apertured part, means for detachably clamping the lower part to the projection lantern and for enabling it to be turned into or out of the beam of light from the lantern, a reflector mounted upon a transverse rotatable spindle in each part of the casing and a knob externally mounted on the upper part of the casing upon the spindle of the reflector therein for simultaneously adjusting the upper reflector and revolving the upper part of the casing.

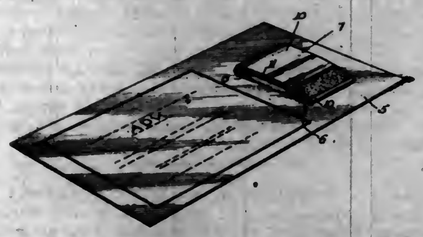
1,750,021. OIL-WELL-PUMPING JACK. RUPERT BERNARD NORRIS, Tulsa, Okla., assignor to W. C. Norris, Tulsa County, Okla. Filed Apr. 5, 1929. Serial No. 352,835. 2 Claims. (Cl. 74—5.)

1. A pumping jack for pumping an oil well, comprising a pumping beam mounted on a stationary standard, means of oscillating said beam and means of connecting a polished rod to said pumping beam at its weight bearing point; a stationary cam track on said stationary standard with the cam track longitudinally disposed with said pumping beam; a link pivotally connected to said stationary standard, and with said link also pivotally connected to said pumping beam, said link being of a predetermined length and having its axis at a predetermined point with reference to the fulcrum point of said pumping beam to correlate the arc prescribed by the point of its con-



nection on the said pumping beam with the predetermined arc prescribed by the weight bearing point of said pumping beam to cause the last named point to travel in a substantially straight line when said pumping beam is oscillated; a roller cam attached to said pumping beam at a point thereon between said link connection thereto and the weight bearing point thereof, and with said roller cam engaging said cam track and free to move thereon and constituting the fulcrum of said pumping beam; and means of retaining said roller cam on said cam track.

1,750,022. BLOTTER. HUGO PICK, Winnetka, Ill., assignor, by mesne assignments, to Albert Pick-Barth Company, Inc., a Corporation of New York. Filed Feb. 18, 1927. Serial No. 169,178. 1 Claim. (Cl. 120—24.)

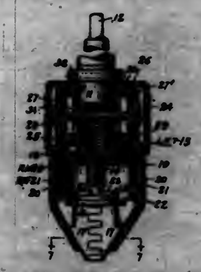


A blotter comprising a one-piece sheet of blotting paper having a pair of slits extending therethrough, a fibre board strip arranged so that the central portion thereof fits against the under side of the sheet and its ends are threaded through the slits and bent inwardly above the top face of the sheet, and a comb of matches having the base part thereof secured to the inner face of one of the strip-ends and adapted to prevent withdrawal of the strip in one direction, the other strip-end being foldable over the comb of matches and insertable between the aforesaid base portion and the said one strip-end to form a handle whereby the blotter sheet may be readily manipulated from one place to another.

1,750,023. AUTOMATIC CHUCK. ERNEST W. PRIGAN, Camp Baldy, Calif., assignor to Albert Lee Shepard, Los Angeles, Calif. Filed May 4, 1925. Serial No. 27,765. 2 Claims. (Cl. 279—1.)

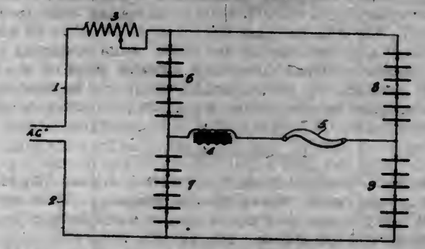
1. A chuck comprising: a spindle adapted to be constantly rotated; a threaded pin interiorly engaging said spindle and provided with a head plate having laterally extending segmental, annular jaw engaging extensions; jaws adapted to rotate with said spindle and provided

with inwardly extending head engaging projections; and control means, including separate control elements, also normally rotating with said spindle, and interior parts



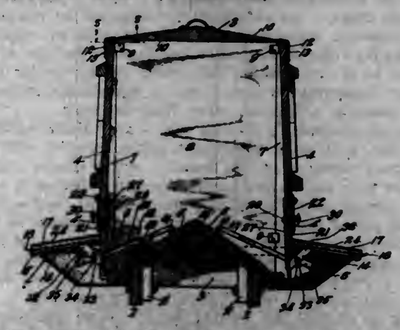
including gears associated with said control elements and said threaded pin, for effecting opening and closing movements of said jaws during a relative retardation of the respective control elements.

1,750,024. ULTRAVIOLET-LIGHT-GENERATING SYSTEM. FREDERIC W. ROBINSON and LESTER F. BIRD, Newark, N. J., assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 24, 1927. Serial No. 215,062. 2 Claims. (Cl. 250—84.)



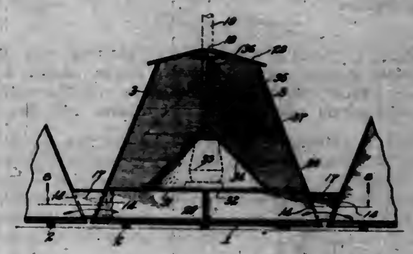
1. In combination with a direct current mercury vapor lamp, an apparatus for operating the mercury vapor lamp from an alternating current source, comprising a smoothing reactor in series with the lamp to be operated, and a plurality of electronic dry contact rectifiers interposed between said lamp and the source of alternating current for rectifying the current passing through the lamp, the resistance of said rectifiers decreasing with a rise in temperature to automatically compensate for the increase in the resistance of the lamp when its temperature rises, whereby the resistance of the circuit will be substantially constant.

1,750,025. ANIMAL-FEEDING DEVICE. ALVIN V. ROWE, Galesburg, Ill. Filed Oct. 26, 1927. Serial No. 228,794. 4 Claims. (Cl. 119—54.)



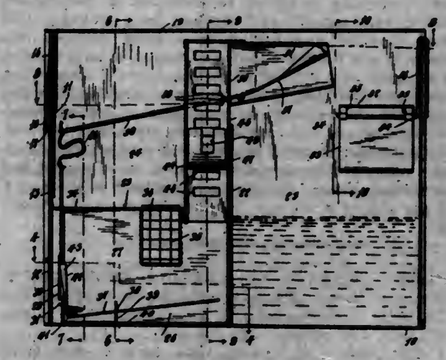
1. In an animal feeding device, in combination, a housing, a feed trough in communication therewith, a hinge bar supported from and longitudinally of said housing, a plurality of spaced bars bracing said trough and connected therewith and with said housing, a plurality of adjacently placed cover members for said trough having a hinged connection with said bar and having upturned side flanges and curved edges along their free ends, the adjacent flange portions of pairs of said cover members normally resting on a common brace bar, and a plurality of supplemental cover members having a hinged connection with said bar, one overlying each of the adjacent flange portions of pairs of said first mentioned cover members and movable with the latter when raised, and provided with turned down flanges along opposite edges adapted to overlie the flange portions of said first mentioned cover members.

1,750,026. HOG HOUSE. ALVIN V. ROWE, Galesburg, Ill. Filed Nov. 21, 1927. Serial No. 234,666. 8 Claims. (Cl. 119—16.)



1. In a hog house, in combination, a plurality of individual separable and independent structural units, the said units adapted for assembly to provide a central unit and the remaining units grouped therearound in adjacent relation thereto and for communication therewith, each unit having closed walls and certain of said walls having an opening to permit entrance into and exit from the said units, a closure for each of said openings, means providing communication between each of the said grouped units respectively with said central unit, means to form a plurality of compartments in said central unit, one compartment coincident with each of said communicating means, and a hover means centrally disposed in said central unit and above said compartment forming means.

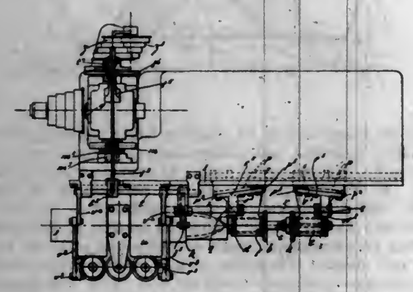
1,750,027. ANIMAL TRAP. EMIL F. SCHROEDER, Weyauwega, Wis. Filed May 18, 1927, Serial No. 191,095. Renewed May 29, 1929. 1 Claim. (Cl. 43—76.)



A trap of the class described having a casing provided with a partition therein to form a captive chamber on

one side thereof, a body disposed in the casing at the other side of the partition, said body having a top and a partition disposed at a right angle to the first mentioned partition to form entrance chambers, said body being open at the side of said entrance chambers whereby the chambers will be closed at the side by the adjacent side walls of the casing, said casing being open at one end wall, entrance openings through the body at the front walls of said entrance chambers, closures for said openings, a tilting platform in each entrance chamber, said platforms normally maintaining the closures open, channel members extending upwardly from each entrance chamber, an outlet duct extending from each passage member across the first mentioned partition wall and into the captive chamber, said entrance platforms being arranged for tilting by a rodent thereon so as to release the door for closing movement, levers having parts in said ducts adapted for engagement by a rodent, and connections between said levers and said closures, whereby when the levers are actuated by the rodent they will restore the closures to open position.

1,750,028. CUTTER RELIEF MECHANISM FOR MACHINE TOOLS. WILLIAM EDWIN SYKES, Slough, England. Filed July 14, 1921, Serial No. 484,713, and in Great Britain Aug. 30, 1920. 43 Claims. (Cl. 90—9.)

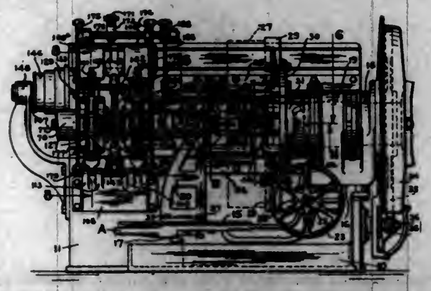


1. Cutter relief mechanism for machine tools, comprising a reciprocable member and a tool support slidingly mounted thereon, said tool support being adjustable relatively to said reciprocable member in the direction of the reciprocating movement thereof, each having cooperating means whereby, when one is moved relatively to the other, a relative movement between said parts at right angles to the direction of the first named movement is effected.

14. In a metal cutting machine, cutter relief mechanism comprising a cutter support and a reciprocable member, said support and member being slidingly connected together and having cooperating surfaces, the surface of one being inclined, and means on said member for engaging said support at each end of the cooperating surfaces to limit the sliding movement therebetween and to connect said support to said member for reciprocation thereby, and means operable in timed relation relative to the reciprocating movement of said member to insure relative sliding movement between said support and said member in one direction and resilient means to assist the sliding movement therebetween in another direction.

1,750,029. METHOD OF CUTTING GEAR TEETH. WILLIAM EDWIN SYKES, Slough, England. Filed May 24, 1923, Serial No. 641,125, and in Great Britain Aug. 30, 1920. 54 Claims. (Cl. 90—9.)

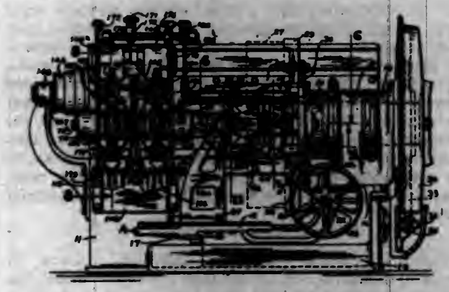
1. The method of cutting teeth upon a gear blank which comprises causing a cutter to traverse the peripheral face of the blank, and moving the cutter bodily and positively in a direction away from the blank at substantially right angles to the line of cut in a translatory movement to relieve it at the end of its operative stroke.



30. The method of cutting helical teeth on a gear blank, which comprises moving a shaping cutter toward the center of the gear face from the side thereof until it contacts with an abutment or shoulder intermediate of the width of the face, imparting a twist to the cutter to produce a helical cut and withdrawing such cutter directly from such abutment or shoulder by a translatory movement while imparting to the cutter and blank a continuous generating movement.

54. The method of cutting helical gear teeth in a blank, which comprises establishing a lost motion connection between a cutter and a reciprocating slide, reciprocating the slide to cause the cutter to be advanced and returned over the face of the blank while imparting to the cutter a helical movement, effecting relative movement between the cutter and blank in an inclined direction prior to the return stroke of the cutter to relieve it during the return stroke.

1,750,030. MACHINE FOR CUTTING GEAR TEETH. WILLIAM EDWIN SYKES, Slough, England. Filed May 24, 1923, Serial No. 641,126, and in Great Britain Aug. 30, 1920. 101 Claims. (Cl. 90—9.)



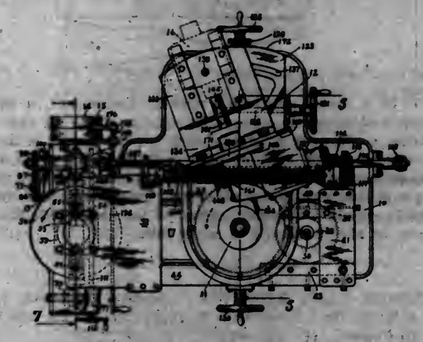
1. In a machine for cutting gear teeth, a support for a gear blank, a cutter operatively mounted for reciprocatory planing movement and for movement of rotation, means for rotating the cutter and causing the face of the blank to be traversed by the cutter, and means for positively imparting to the cutter a translatory relieving movement in a direction away from the work.

56. A machine for cutting helical gear teeth including a frame, a blank support, and a cutter carrying slide operatively mounted on the frame, a cutter spindle carried by the slide and having a cutter mounted thereon, a bearing member movably mounted on the frame, said spindle being guided for reciprocatory twisting movement in said bearing member, means for imparting a continuous rotative movement to said bearing member and spindle, and means for moving said bearing relatively to said frame to impart a bodily movement to the cutter spindle.

92. A machine for cutting helical gears comprising a frame, a blank support mounted thereon, a pair of cutters, a spindle upon which each of the cutters is mounted, each

of said spindles being mounted in journals movably mounted on the frame, cam means associated with each of said journals, a rock shaft adapted to actuate the cam means associated with the journals at one end of each shaft, separate cam means adapted to actuate the journals associated with the opposite end of each shaft, a rock shaft mounted on the frame, and means for actuating all of said cam means from said rock shaft.

1,750,031. MACHINE FOR GENERATING GEAR TEETH. WILLIAM E. SYKES, Buffalo, N. Y. Filed Nov. 22, 1927. Serial No. 235,001. 42 Claims. (Cl. 51—52.)



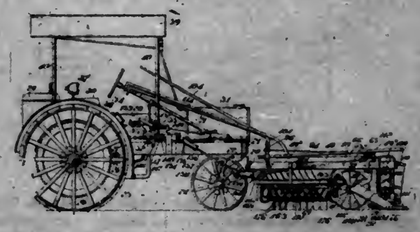
1. A metal working machine, comprising a base, a reciprocable carriage slidably mounted on said base, means to reciprocate said carriage, another reciprocable carriage slidable relatively to said base, means operable by the reciprocation of said first mentioned carriage to reciprocate said second mentioned carriage, a rotatable work support mounted on one of said carriages, means mounted on the other of said carriages to rotate said work support, and a cutting tool mounted upon said base and disposed to act upon said work on said work support to form the same while said work is being rotated and reciprocated.

1,750,032. RECEIVING SET. MAMERTO V. TIMTIMAN, Manila, P. I. Filed July 1, 1927. Serial No. 202,969. 5 Claims. (Cl. 250—31.)



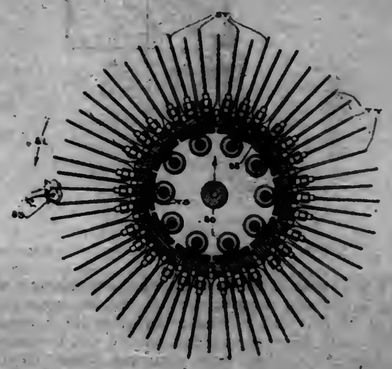
1. In a radio receiving apparatus, a tubular casing having an opening at one end, a cap threadedly mounted on said end over said opening and defining a compartment, a metallic crystal holder within the compartment, means to support the holder within the compartment, a radially disposed arm secured within the tubular casing and adapted to be connected in the circuit of the apparatus, a cat-whisker secured to the arm and extending through the opening of the casing for contact with a crystal within the crystal holder and means to connect the crystal holder in the receiving circuit.

1,750,033. COMBINED MOWER AND WINDROWER. CHARLES E. WHITE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Nov. 8, 1918, Serial No. 261,657. Renewed Aug. 29, 1927. 48 Claims. (Cl. 56—25.)



1. An agricultural implement comprising a frame, a transversely disposed mower connected therewith, devices back of said mower at opposite sides of the central longitudinal axis of the implement and operating to move the crop on the ground toward such longitudinal axis, and means for actuating said mower.

1,750,034. COTTON PICKER. HIRAM NEWTON BERRY, Greenville, Miss., assignor, by direct and mesne assignments, to Cotton Harvestor Corporation of America, Greenville, Miss., a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,826. 5 Claims. (Cl. 56—44.)

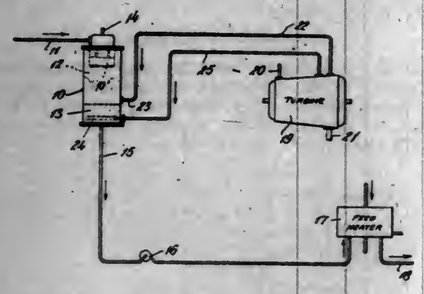


1. In a cotton picker having picking elements arranged for introduction into and retraction from the plants as the cotton picker progresses along a row; in combination, means interspersed between said picking elements for deflecting ripened bolls otherwise out of range of said elements into proximity with adjacent picking elements.

1,750,035. DEAERATOR. STANLEY BROWN, Garden City, N. Y., assignor to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 19, 1926. Serial No. 149,327. 11 Claims. (Cl. 60—94.)

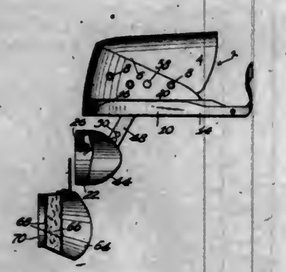
10. In a steam power system the combination of a turbine, a boiler feed heating system including a plurality of successive feed water heaters deriving heating steam at appropriate temperatures from various stages of said tur-

bine, a deaerator arranged to receive water from one of said heaters and deliver it to said boiler feed system, said deaerator having a primary heating means and a secondary heating means, an evaporator supplied with steam from



a stage of said turbine, means for conducting steam from the vapor space of said evaporator to said primary heating means, and means for conveying heat of the drains from said evaporator heating chamber to said secondary heating means.

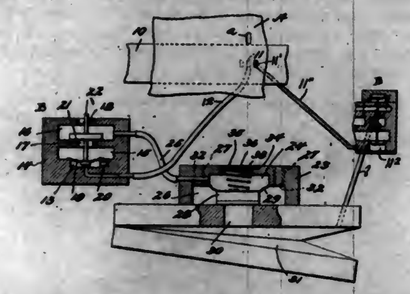
1,750,036. HEAD, NOSE, EYE, AND EAR PROTECTIVE MEANS. HOWARD E. CHAMBERS, Long Beach, Calif. Filed Mar. 10, 1928. Serial No. 260,635. 2 Claims. (Cl. 2—14.)



1. A head gear of the class described comprising a crown having a forehead covering portion, and an upper portion open at its rear end, a band attached to the bottom and inside of said forehead covering portion and in spaced relation thereto to coact with said open upper portion to provide for air circulation, a pair of goggles hingedly connected and provided with means for adjusting said goggles in a horizontal plane independently of the hinged connections, and a pair of arms for pivotally connecting said goggles to said crown.

1,750,037. MEANS TO ELIMINATE NOISE IN PARTS OF RECORD-CONTROLLED MUSICAL INSTRUMENTS. TOLBERT F. CHERK, New York, N. Y., assignor, by mesne assignments, to Welte-Mignon Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 20, 1923. Serial No. 663,831. 18 Claims. (Cl. 84—39.)

1. In a record controlled musical instrument, a member having an air expansion chamber having a plurality of ducts and linings for said ducts made of soft material and each open at its opposite ends to permit the free flow of air into and through the same.



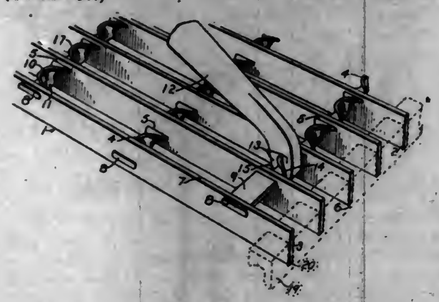
7. In a record controlled musical instrument, a pneumatic and means to change the tension of the air therein, having a plurality of ducts, each provided with a lining of soft material, open at both ends, through which said means communicates with the atmosphere, and also having a pneumatically operable valve common to said ducts and by which the communication of the ducts with the interior of the pneumatic is controlled.

1,750,038. ASH RECEIVER. ROBERT CAMPBELL EVE, Atlanta, Ga. Filed Dec. 6, 1927. Serial No. 238,103. 10 Claims. (Cl. 131—51.)



1. An article of manufacture, including an ash receiver, and a non-spillable extinguisher for cigars and cigarettes united therewith.

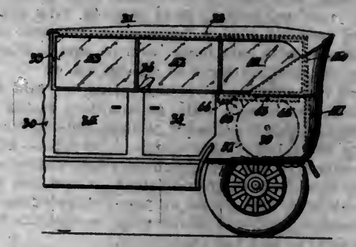
1,750,039. GRATING. PETER EMIL FELTES, Kansas City, Mo. Filed June 4, 1928. Serial No. 282,564. 8 Claims. (Cl. 94—30.)



1. In a grating, spaced support bars provided with sets of aligning longitudinal slots, the sets being in staggered relation, and tie bars positioned in aligned slots having integral portions extending oppositely from the axes of the tie bars.

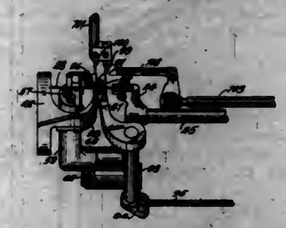
1,750,040. INCLOSURE FOR AUTOMOBILES. JEHU T. GORE, Drexel Hill, Pa. Filed Aug. 11, 1927, Serial No. 212,165. Renewed June 4, 1929. 18 Claims. (Cl. 296—45.)

1. A collapsible inclosure for open vehicles comprising magazine carriers normally concealed in recesses or hollows of the vehicle body, each of such carriers accommodating a number of sliding sashes side by side, and



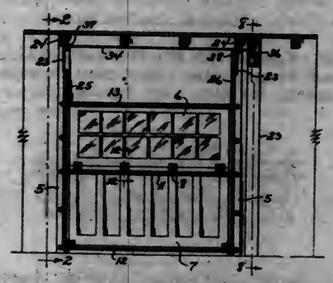
means to move the carriers into position for distribution of the sashes horizontally along opposite sides of the vehicle.

1,750,041. SEWING MACHINE. HORACE F. GRUMAN, Richmond Heights, Mo., assignor to Lewis Invisible Stitch Machine Company, Kittery, Me., a Corporation of Maine. Filed Oct. 29, 1924, Serial No. 746,676. 14 Claims. (Cl. 112—162.)



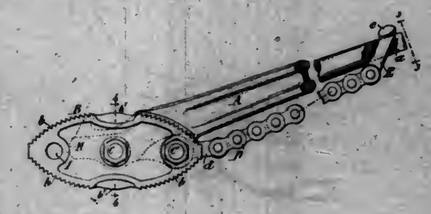
6. In a machine of the character described, a work table, a longitudinally reciprocating horizontal needle bar operating below said table, stitch forming mechanism cooperating with said needle bar to join seam the material, a longitudinally reciprocating vertical needle bar having stitch forming mechanism cooperating therewith to cover-seam the joined material, and means for feeding the material.

1,750,042. GARAGE DOOR. BROOKS B. HOOVER, Aurora, Ill. Filed Apr. 23, 1928. Serial No. 272,244. 3 Claims. (Cl. 20—20.)



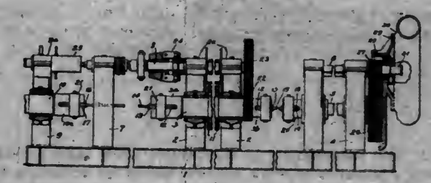
1. A door comprising a pair of hingedly secured sections, bracing strips secured across said sections in a manner to allow contraction and expansion thereof, brackets secured to the ends of said bracing strips, roller straps carried by said brackets, grooved rollers arranged in pairs and mounted in said roller straps, tracks receiving said rollers for movement thereon and being curved intermediate their ends to provide vertical and horizontal portions, hanger brackets for supporting said tracks, said vertical portions being bent to move the door toward and away from its frame when the door is being disposed to its opened and closed positions, a cable secured to one of said sections and a counterbalancing means carried by said cable.

1,750,043. CHAIN PIPE WRENCH. WILLARD C. KRESS, Buffalo, N. Y., assignor to J. H. Williams & Co., Buffalo, N. Y., a Corporation of New York. Filed Apr. 28, 1928. Serial No. 273,690. 9 Claims. (Cl. 81—66.)



1. A pipe wrench comprising a handle having a slot in one end and a flat link chain, one end of which is anchored near the end of the handle other than that having the slot and the other end of the chain being engageable when not in use in said slot in the handle, the slot in the handle and the faces of the chain links lying in parallel planes.

1,750,044. SHAFT MOUNTING AND COUPLING FOR ENGINES AND COOPERATIVE PARTS. CARL H. KNUDSEN, New York, N. Y. Filed Mar. 12, 1926, Serial No. 94,344. Renewed May 25, 1929. 5 Claims. (Cl. 64—29.)



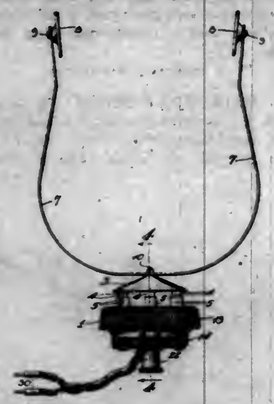
1. An apparatus of the class described comprising an engine driven shaft, a supplemental driven shaft arranged at one end of and in axial alinement with the first named shaft and coupled therewith by a flexible coupling, a blower shaft arranged in parallel relation and geared to said supplemental shaft, a blower mechanism actuated by said blower shaft, and a governor shaft arranged in parallel relation to and geared directly in connection with the first named engine driven shaft.

1,750,045. METHOD OF AUDITION AND APPARATUS FOR PRACTICING THE SAME. JOEL W. MACDONALD, Houston, Tex., assignor of fifteen per cent to A. B. Prescott, twenty per cent to A. H. Koennecke, and sixty-five per cent to The Tactiphone Company, Houston, Tex., a Corporation of Texas. Filed Nov. 1, 1928. Serial No. 316,590. 5 Claims. (Cl. 179—107.)

1. The method of transmitting speech and other sound impulses directly to the auditory nerves which comprises electrically vibrating a diaphragm to reproduce sound impulses, conducting the reproduced sound impulses directly from said diaphragm through a lengthwise rigid conductor of sound and propagating said impulses along

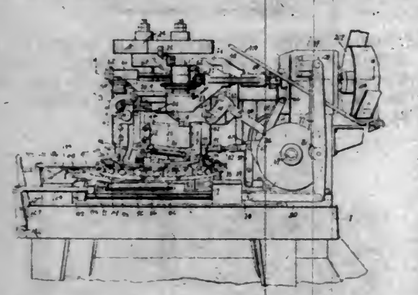
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the lengthwise rigid conductor and continuing the conduction of the reproduced impulses to the skin of the head



in close proximity to the mastoid eminence, such conduction being always in a lengthwise rigid conductor of sound from the diaphragm all the way to said point of application.

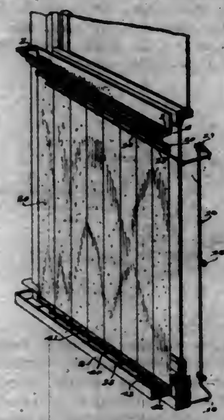
1,750,046. COMBINED MILLING AND DRILLING MACHINE. GEORGE MELLING, Jackson, Miss. Filed Apr. 29, 1927. Serial No. 187,648. 32 Claims. (Cl. 29—38.)



1. The combination of a rotatable work table provided with a plurality of work holders, means for actuating said work table with a step by step movement, a post disposed centrally relative to said work table, a crosshead mounted on said post and provided with oppositely disposed segmental ways, tool carriages oscillatingly mounted on said crosshead in opposed relation and provided with slide bearings coacting with said ways, a double lobed cam mounted on said post to coact with said carriages whereby they are simultaneously actuated, springs acting to retract said carriages, cutter shafts disposed vertically on said carriages and provided with cutters at their lower ends and with flywheels at their upper ends, forked bearing brackets mounted between said carriages and flywheels, beveled gears arranged on said cutter shafts between the forks of said bearing brackets, driving shafts supported by said bearing brackets and provided with beveled gears coacting with said gears on said cutter shafts, a second crosshead mounted on said post above said cutter supporting crosshead, drill units mounted in opposed relation on said second crosshead and provided with spindles having beveled gears at their upper ends, a shaft disposed centrally above said post and provided with gears coacting with both of the gears on said spindles, a driving shaft provided with a gear meshing with the gear of one of said spindles, and feed means for said spindles synchronized with said tool carriage actuating cam.

18. In a machine of the class described, the combination of a work table provided with index lugs, an actuating slide, a cam shaft provided with an actuating cam for said slide, a return spring for said slide, a driving pawl mounted on said slide to coact with said index lugs, a pivotally mounted holding pawl coacting with said index lugs and provided with a tappet arm, a tappet on said slide coacting with said tappet arm on said holding pawl whereby the holding pawl is disengaged on the return stroke of the slide, an actuating spring for said holding pawl connected to said slide, an auxiliary spring urging said holding pawl to engaging position, driving means for said cam shaft including a clutch, a tappet on said cam shaft, a pivotally mounted clutch releasing member adapted to swing into the path of said tappet on said cam shaft, a bell crank lever adapted to support the swinging end of said releasing member, and operating connections for said holding pawl to said bell crank lever.

1,750,047. AIR-COOLING APPARATUS. GUSTAVE A. METZGER, Belleville, Ill. Filed May 31, 1928. Serial No. 281,840. 4 Claims. (Cl. 261—103.)



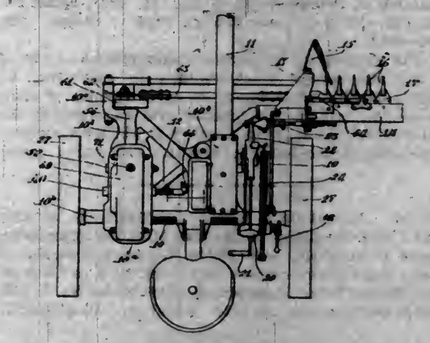
1. An air cooling apparatus comprising a water supply trough having a plurality of valved discharge pipes extending therefrom, pins detachably mounted on said pipes, absorbent fabric strips carried by said pins, a drip pan supported in a plane below said trough, and means for mounting the lower ends of said strips over said pan whereby the water fed through said pipes onto said strips will be received by the pan.

1,750,048. WATER-COOLED FURNACE WALL. OSCAR NYGAARD, Saugus, Mass. Filed Nov. 28, 1928. Serial No. 322,468. 8 Claims. (Cl. 122—6.)



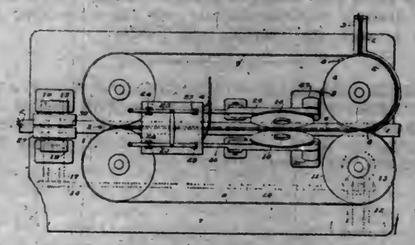
7. In a water cooled furnace wall, the combination of a series of tubes located side by side, a flanged bar extending transversely to said tubes and located immediately beside them, blocks resting in the flange part of the bar and having curved faces to bear against the respective tubes, and U-bolts partly encircling the respective tubes and extending through the bar and said blocks, said bolts serving to secure the tubes to said bar and to clamp said blocks between the respective tubes and the bar.

1,750,049. MOWER. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Sept. 17, 1928. Serial No. 306,409. 18 Claims. (Cl. 56—271.)



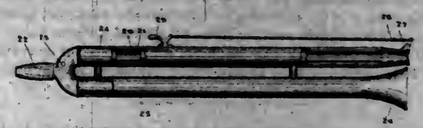
1. A mower having a frame, a two piece axle in the frame carrying wheels, a pawl carrying plate having a hub spanning adjacent inner ends of the axle pieces, means securing the hub to one of the pieces to turn therewith, a ratchet gear, said pawls being enclosed by the gear and plate, a sickle, and means driven from the ratchet gear for driving the sickle.

1,750,050. WELDING MACHINE. HOWARD D. RANDALL, Cincinnati, Ohio, assignor to The Randall Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 22, 1927. Serial No. 200,568. 12 Claims. (Cl. 219—4.)



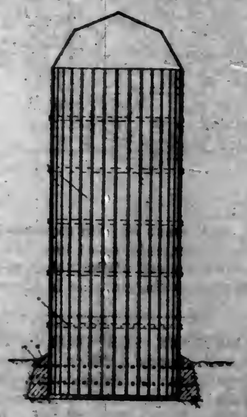
1. In a machine of the character described a combination of a metal member with means for advancing same continuously; metal attaching devices; means for feeding said attaching devices; means for guiding said devices; a rotary member for making contact with said devices; connections from said rotary member to a source of electricity whereby said attaching devices will be welded to said member while they are in contact with said rotary member.

1,750,051. WIND INSTRUMENT. LOGAN RIVES, Los Angeles, Calif. Filed Aug. 17, 1927. Serial No. 213,541. 7 Claims. (Cl. 84—380.)



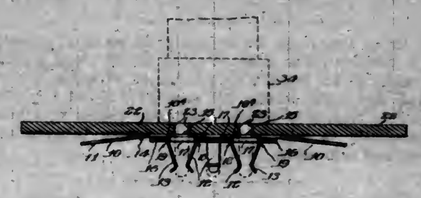
6. A wind musical instrument comprising a tube, both ends of the tube being capable of being open, said tube being adapted to be sounded while both ends are open, a mouth piece at which may be excited vibrations to the air within the tube at a point intermediate its ends, and means for varying the effective length of the tube, said means causing the column of air between the ends of the tube to vibrate as one column.

1,750,052. SILO. JAMES RUSSEL ROBERTS, Lincoln, Nebr. Filed Nov. 26, 1928. Serial No. 321,962. 2 Claims. (Cl. 20—1.4.)



1. In a silo, a cylindrical body part comprising separate vertically disposed and spaced apart planks, hoops enclosing the planks to hold the same in circular order, said planks having beveled edges at their inner sides providing depressions at the adjacent edges of the planks, and wedge strips seated in the depressions adapted to be forced outwardly toward the beveled edges to seal the joints between the adjacent planks.

1,750,053. HOLDER FOR THERMIONIC TUBES. WALTER W. ROBINSON, Beloit, Wis. Filed July 11, 1927. Serial No. 204,704. 2 Claims. (Cl. 173—328.)

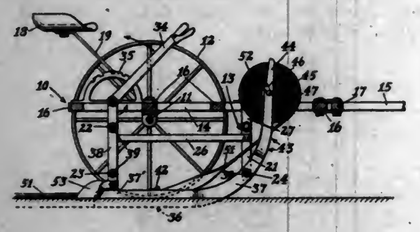


1. A contact member of the character described comprising a relatively long and narrow piece of thin springy metal having a hole near one end and having adjacent to said hole a pair of integral spring leaves extending substantially at right angles from the metal in which the hole is formed, said leaves being formed to contact a pin-like terminal passing through said hole, one of said spring leaves being formed out of body material of the metal leaving an opening therein of a shape substantially corresponding to that of the spring leaf formed from the metal at that place.

1,750,054. TRANSPLANTING MACHINE. GEORGE W. ROSSO, Los Angeles, Calif. Filed Apr. 25, 1928. Serial No. 272,763. 8 Claims. (Cl. 111—8.)

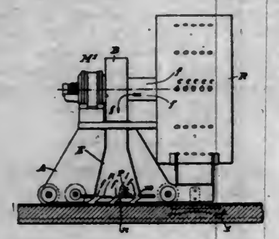
1. A transplanting machine comprising a fixed frame, forming part of a two-wheeled vehicle; a movable frame mounted in said fixed frame so as to be adjustable in relation thereto; a channeled runner attached to said mov-

able frame said runner being adapted to cut a furrow in the soil, a spool on said movable frame, turnable about a horizontal axis, said spool being adapted to carry a ribbon wound thereon in which plants are fixed at regu-



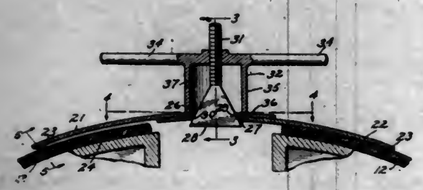
lar intervals, and means on said movable frame for guiding said ribbon from said spool into the furrow cut by said runner when one end of the ribbon is held fast at one end of the furrow, as the machine is driven across a field.

1,750,055. MACHINE FOR DRYING SHEET MATERIAL. ANDRÉ SAMUELS, Lyon, France, assignor, by mesne assignments, to Samuels Process Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1928. Serial No. 316,782. 9 Claims. (Cl. 34—18.)



1. In an apparatus for drying sheet material comprising a movable frame adapted to be moved along a printing table, an air heating unit including a casing, a blower and means for driving the said blower, and a conduit extending from said casing, about said blower to a point of proximity to said table, and a damper between said blower and said table.

1,750,056. BRAKE-LINING TIGHTENER. GEORGE SHRAFFER, Hollywood, Calif. Filed June 12, 1928. Serial No. 284,849. 8 Claims. (Cl. 29—84.)

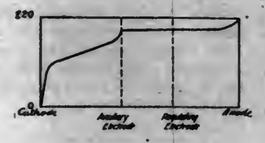


1. In a brake-lining clamp, the combination of: a pair of clamp-plates; a wedge for operating said clamp-plates; and wedge-working means for moving said wedge relative to said clamp-plates.

1,750,057. PROCESS OF PREPARING DIAZOSULPHAMIC ACIDS. KARL SCHIRMACHER and WERNER SCHIRMACHER, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 17, 1927, Serial No. 169,131, and in Germany Feb. 22, 1926. 4 Claims. (Cl. 260—69.)

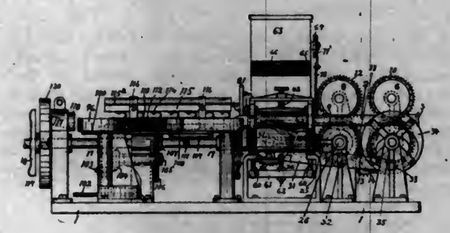
1. The process for preparing diazosulphamic acids of the aromatic series, which consists in converting an aromatic diamine by means of an agent capable of splitting off SO_3, into the disulphamic acid and treating the latter with nitrous acid, the quantity of which corresponds to the amount necessary to diazotize one amino group.

1,750,058. DISCHARGE TUBE CONTAINING AUXILIARY ELECTRODES. JOHANNES MICHAEL SCHMIERER, Gross Lichterfelde, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York. Filed May 6, 1925, Serial No. 28,515, and in Germany Jan. 23, 1924. 9 Claims. (Cl. 250—27.)



1. In a gas discharge tube, a cathode, anode and electrode, means for applying a predetermined voltage across said cathode and anode, means whereby substantially all of said voltage is impressed across said cathode and electrode and substantially only the anode drop occurs between the electrode and anode.

1,750,059. MACHINE FOR BANDING A STRIP AND CUTTING THE LATTER BETWEEN THE BANDS TO PROVIDE BANDED PIECES. ARTHUR R. SELDEN, Rochester, N. Y. Filed July 15, 1926. Serial No. 122,626. 28 Claims. (Cl. 93—2.)



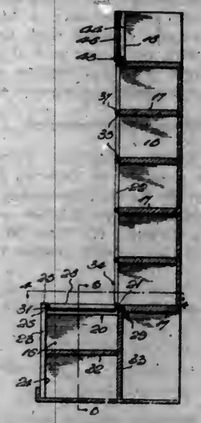
1. A machine of the class described comprising means for moving a strip of material through the machine, means for applying bands to the strip at spaced points while it is in motion through the machine, and means for severing the strip between said bands while the strip is moving.

1,750,060. SELF-SERVICE-STORE EQUIPMENT. JOHN F. SMILEY, Dallas, Tex. Filed Nov. 12, 1926. Serial No. 313,853. 4 Claims. (Cl. 211—151.)

1. In self-service store shelving, a plurality of shelves one of which is provided at its front edge with spaced bearings, a horizontal rail rigidly mounted in advance of

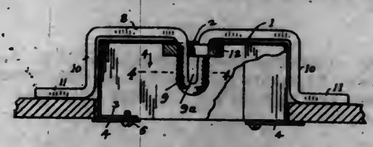
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said one shelf and having bearings alined with those aforesaid, an open space being provided between said



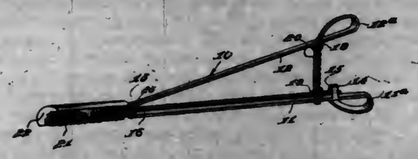
shelf edge and said rail, and basket-supporting rollers in said space extending between said rail and said one shelf and supported by said bearings.

1,750,061. HOUSING STAY AND SUPPORT DEVICE. EARL F. SMITH and GUY KENNETH WILSON, Muncie, Ind., assignors to Midwest Metal Products Company, Muncie, Ind., a Corporation of Indiana. Filed Feb. 7, 1929. Serial No. 338,127. 6 Claims. (Cl. 247—20.)



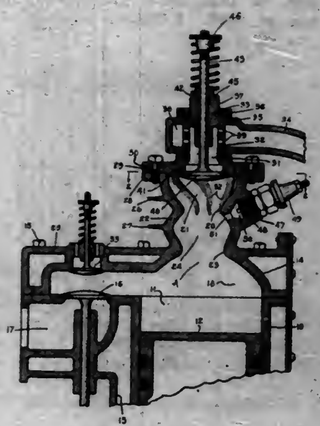
1. A housing, stay and support device of the kind described, comprising a box having an opening in the rear side thereof and the front of the box being open, a stay member having its body portion to register with the rear, and being provided with footed side portions which register on a plane a distance from the plane of the front of the box, and there being a stud on the body portion of the stay member to extend through the opening in the rear of the box, said stud having an opening therein through which electric wires may be passed, a flange plate on the front of the box, and means on the stud operable to draw the box toward the body portion of the stay member.

1,750,062. ROTARY BRUSH. JESSE R. SMITH, Benton, Ill. Filed July 25, 1927. Serial No. 208,245. 2 Claims. (Cl. 15—26.)



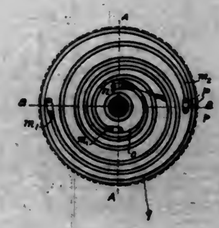
1. A rotary tooth brush comprising a frame member having an aperture therein, a shield having an aperture therein, a tubular supporting and limiting member adapted to receive a shaft, said supporting and limiting member being rigidly secured within one of said apertures and loosely extending through the other aperture, said supporting and limiting member provided with means to prevent separation of said frame member and shield, and a yieldable member surrounding said supporting and limiting member in frictional engagement with said frame member and shield.

1,750,063. INTERNAL-COMBUSTION ENGINE. WILLIAM A. SORG, Owosso, Mich. Filed Jan. 28, 1926. Serial No. 83,228. 11 Claims. (Cl. 123—191.)



1. In an internal combustion engine, a cylinder, a piston movable therein, a cylinder head situated at the end of said cylinder providing a chamber having an ignition compartment therein, and a vaporizing compartment of substantially the same size as said first compartment communicating therewith, and means for conducting a fuel mixture into said vaporizing compartment.

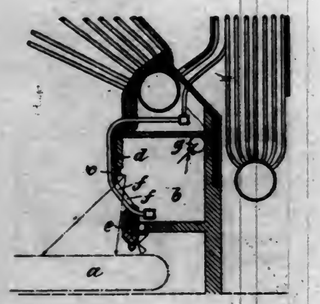
1,750,064. RUNNING GEAR FOR HIGH-SPEED SUSPENSION CARS. CURT STEDEFELD, Heidelberg, Germany. Filed Oct. 25, 1926, Serial No. 144,071, and in Germany Mar. 10, 1926. 7 Claims. (Cl. 105—181.)



1. In a wheeled vehicle, a driving mechanism of the type including a frame, a hanger arm, a driving wheel journaled on said hanger arm, a drive for said wheel including a gear rigidly secured to said wheel, means pivotally mounting said hanger arm on said frame, a driven gear in mesh with said first gear and having an axis coinciding with the pivotal axis of said hanger arm, the pivotal mounting of said hanger arm restraining all

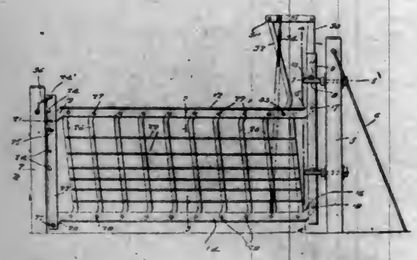
movement thereof except in a vertical plane, whereby the teeth of said gears remain fully in mesh upon vertical movement of said hanger arm, characterized by the fact that means is provided for resiliently driving said gears, whereby vertical movement of said wheel with reference to said frame is not transmitted through said gears to the prime mover.

1,750,065. TRAVELING GRATE. LEBRECHT STEINMÜLLER, Gummersbach, Germany, assignor to the Firm L. & C. Steinmüller, Gummersbach/Rheinland, Germany. Filed Sept. 28, 1928, Serial No. 309,061, and in Germany Aug. 29, 1928. 4 Claims. (Cl. 110—1.)



1. The combination with a furnace having a grate and a combustion chamber, of an auxiliary chamber extending into said combustion chamber over the grate, said auxiliary chamber having openings therein to permit access to the combustion chamber and grate, and means for normally closing said openings.

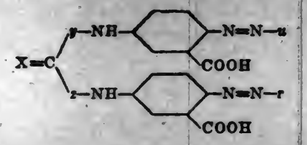
1,750,066. GATE. JULIUS A. STRIPLING, Fort Dodge, Iowa. Filed Apr. 20, 1928. Serial No. 271,514. 2 Claims. (Cl. 39—80.)



1. In a gate structure of the class described, a pair of spaced longitudinal channel bars, a pair of upper gate bars pivotally engaged at adjacent ends in an intermediate portion of the respective channel bars, a pair of lower gate bars pivotally mounted in the lower portions of the respective channel bars, a plurality of rods pivotally engaged between the pairs of gate bars, and a plurality of wires extending transversely across the rods, a riser on one of said channel bars, a bracket on said riser, a hanger pivotally engaged with the bracket and pivotally engaged with the upper pair of gate bars, and spring means engaged with the bracket and the lower pair of gate bars for normally raising said bars.

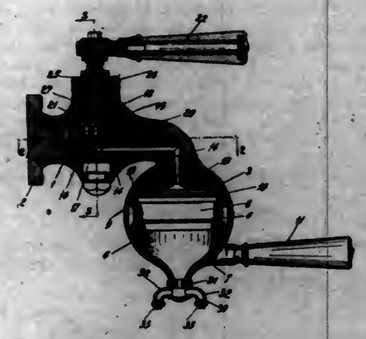
1,750,067. AZO DYES. RICHARD STÜSSER, Cologne-Deutz, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 7, 1928, Serial No. 268,378, and in Germany Apr. 21, 1927. 5 Claims. (Cl. 260—85.)

1. Azodyestuffs of the probable general formula:



wherein X represents a sulfur or oxygen atom, z and r represent residues of any desired coupling components, y and z stand for at least once a group of the kind —NH—R—a—, whereby R represents an aromatic nucleus and a— represents one of the groups CO— and SO_2— being linked to a nitrogen atom, said dyestuffs being yellow to black powders, sparing soluble in the usual organic solvents, soluble in concentrated sulfuric acid with yellow to blue colorations, yielding on treatment with stannous chloride and hydrochloric acid among other products 2.5-diaminobenzene-1-carboxylic acid.

1,750,068. EXPRESS COFFEE-MACHINE SET. ANGELO TORRIANI, Pavia, Italy. Filed Nov. 6, 1928, Serial No. 317,631, and in Italy Nov. 14, 1927. 2 Claims. (Cl. 53—8.)



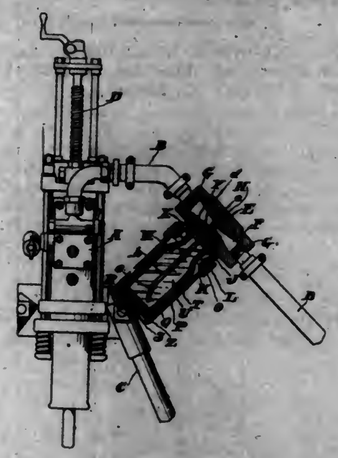
1. A device of the class described comprising an arm having a cup carried by one end, a circular carrier in the cup, a filter having an annular flange adapted to rest upon the carrier, a collector threaded in the cup and engaged with the carrier, said collector when in its operative position serving to clamp the flange of the filter between a wall of the cup and the carrier, said arm having ducts therein for conducting fluid into the cup, and means carried by the collector for discharging the contents thereof.

1,750,069. MUSICAL INSTRUMENT. VELMA S. TRUBEY and HARRY H. GROSS, San Francisco, Calif. Filed Mar. 7, 1927. Serial No. 173,273. 11 Claims. (Cl. 84—270.)



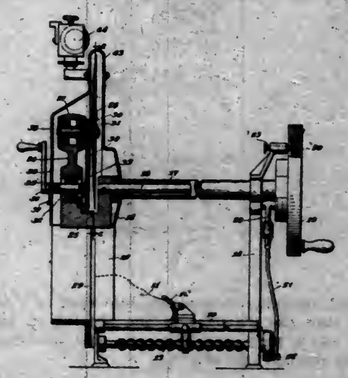
1. In a stringed musical instrument a rim, a head arranged on one side of the rim, a reflector plate closing the opposite side of the rim, and a bell-mouth resonator flange mounted on the inside of the rim and opening toward the reflector plate.

1,750,070. AIR-LINE OILER. GROVER G. TUTTLE, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 6, 1927. Serial No. 189,311. 1 Claim. (Cl. 184—55.)



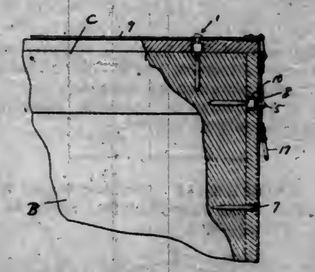
An air line oiler comprising a connection adapted to be attached to an air line, said connection having a passageway affording communication between adjacent sections of the air line, said passageway having a restricted portion, a threaded projection on one side of the connection having a recess, a bottle forming a reservoir for oil and extending with its open end into the recess, a guard surrounding the container and cooperating with the threaded projection to hold the container in assembled position, a tube in the bottle extending with one end into the passageway and with its other end to a point near the bottom of the bottle for conveying oil into the passageway, means in the recess to seal and cushion the open end of the container, a passage through the connection and said means for constantly admitting pressure fluid into the container to act on the surface of the oil in the container for transmitting the pulsations in the hose line to the oil and thus force oil through the tube into the passageway, and yieldable means between the bottom of the container and the guard to centraline the container with respect to the guard and to prevent contact between said container and the guard.

1,750,071. SLICING MACHINE. CORNELIS FRANCISCUS MARIA VAN BEEKUM, Wassenaar, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed June 20, 1927, Serial No. 200,244, and in the Netherlands Aug. 25, 1926. 15 Claims. (Cl. 146—103.)



1. A meat and bone cutting machine comprising a rotary disc slicing knife, means for revolving said knife eccentrically to the axis of the knife to cause said knife to engage material to be sliced, said knife being free to assume its own angular position relative to its own axis during the movement of said knife through the material to be sliced.

1,750,072. COLLAPSIBLE BOX-CARRYING MEANS. HOMER H. VANDIVORT, Bado, Mo., assignor of one-fourth to Luther L. Grisham, one-fourth to Richard B. Grisham, and one-fourth to Raymond C. Miles, Elk Creek, Mo. Filed May 12, 1928. Serial No. 277,250. 3 Claims. (Cl. 217—12.)

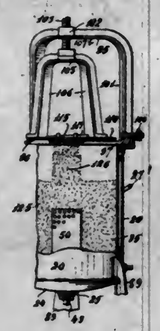


1. In a collapsible box of the character described wherein the side walls of the box are formed with spaced openings adjacent their ends, stud members projecting from the edges of the end walls of the box and being adapted to project through said openings in the side walls, and a pair of straps formed with spaced key slots arranged around the ends of said box so as to engage the studs projecting through the side walls in secure relation with said straps through said key slots.

1,750,073. FILTER. GEORGE L. WALSH, Jersey City, N. J., assignor to Joseph M. Rector, Jersey City, N. J. Filed Mar. 15, 1929. Serial No. 347,285. 2 Claims. (Cl. 210—138.)

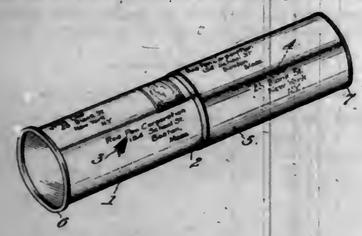
1. In a filter the combination of a shell for a filtering material, a cover detachably connected to said shell, means to insert a fluid to be filtered in the shell, a yoke hinged over the shell, a screw in threaded engagement with said

yoke, a yoke in rotative engagement with the lower end of the screw, a disc plunger having an opening connected to the lower end of the latter yoke, a cover detachably connected to said disc plunger under the opening therein, a



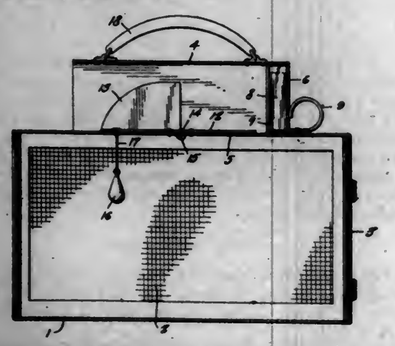
perforated discharge hood within said shell of a diameter smaller than the diameter of the opening in said disc plunger and a pipe extending from said discharge hood extending through said shell.

1,750,074. SHIPPING CONTAINER. IRVING WARNER, Wilmington, Del. Filed Apr. 17, 1929. Serial No. 355,768. 4 Claims. (Cl. 229—93.)



1. A shipping container having a plurality of complete shipping addresses thereon, and a shield slidably movable on said shipping container for completely covering one or the other of said shipping addresses, selectively, while leaving the other entirely exposed.

1,750,075. ANIMAL TRAP. WILLIAM WALTO WATERMAN, Tulsa, Okla. Filed Jan. 23, 1929. Serial No. 334,456. 1 Claim. (Cl. 43—69.)



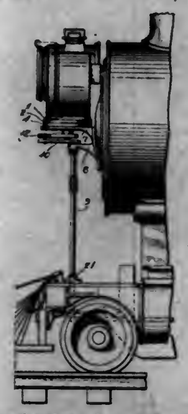
A trap of the class described comprising a casing having an opening in its top, a housing on top of the casing covering the opening, a hinged door in the housing over the opening, the front end of the door resting upon the front wall of the opening, with the rear end terminating short of the rear wall of the opening so that the rear part of the door can pass through the opening when the door is tilted, a weight on the front end of the door, a bait holder closing the rear end of the housing, said bait holder including a base plate and an upright hollow body having an opening in its front for exposing the bait, guiding means at the rear end of the housing for receiving portions of the base plate, said door having side pieces at its front with their front edges curved.

1,750,076. ALTERNATING-CURRENT MOTOR. HANS WEICHSEL, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 26, 1929. Serial No. 335,301. 2 Claims. (Cl. 172—279.)



1. In a dynamo electric machine provided with a commutator and brushes, means for short-circuiting the commutator which comprises a collar mounted on the shaft of the machine and provided with a circumferential recess and commutator short-circuiting elements carried in said recess, centrifugal means for moving the brushes out of contact with the commutator and for moving the short-circuiting elements into operaive position with respect to the commutator, and means insulating the short-circuiting elements from the collar.

1,750,077. DIRIGIBLE HEADLIGHT. ASA BENTON WELCH, Atlanta, Ga. Filed Aug. 31, 1927. Serial No. 216,667. 2 Claims. (Cl. 240—62.)



1. Operating mechanism for a headlight comprising a casing, a pivoted member rigidly attached to the casing, an arm rigidly attached to said pivoted member and having a plurality of vertical bolt holes therein, a two part extensible rod having pivotal connection with a locomotive truck frame and carrying an upper and lower arm with means for taking up lost motion between the rod and arms, a pin in the lower arm, a projection on the truck and a slot connection between said projection on the truck and said pin said upper arm having a slot adapted to receive a pin inserted in either of said vertical bolt holes in the arm carried by the pivoted member.

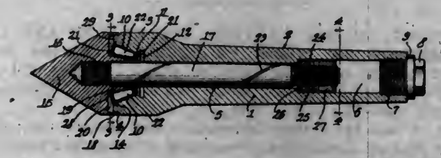
1,750,078. CONTROL APPARATUS. ERNST WILLHEIM, Gilgenberg, Austria. Filed Jan. 25, 1927, Serial No. 163,513, and in Austria Feb. 1, 1926. 3 Claims. (Cl. 161—15.)

1. An apparatus for controlling the running time of vehicles, consisting of a clock, having clockworks, a movable locking device adapted to engage an element of the clockworks and when so engaged preventing the working of the clock, resiliently supported masses, adapted to



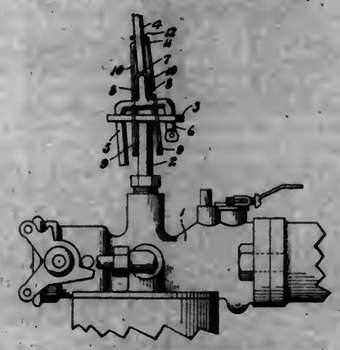
oscillate under the influence of motion of their support and means translating the movement of said masses to said locking device to move and retain the locking member out of reach of the element of the clockworks.

1,750,079. TOOL. ELLIS VERNON WILLS, St. Louis, Mo. Filed June 7, 1928. Serial No. 283,596. 3 Claims. (Cl. 82—33.)



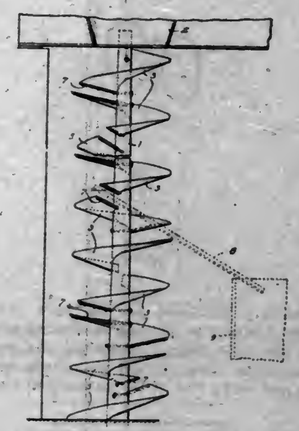
1. In a device of the class described, a body provided at one end with a lubricant chamber, a shaft journaled in the body, a centering piece carried by the one end of the shaft and cooperating with the body, bearings mounted in the body and supporting the centering piece for rotation, and the shaft having a superficial spiral groove by which a lubricant is fed from the chamber to the bearings when the centering piece and the shaft rotate.

1,750,080. ANTIRATTLING DEVICE. FLOYD G. WITHROW, Grand Rapids, Mich. Filed July 27, 1925. Serial No. 46,380. 3 Claims. (Cl. 287—1.)



1. The combination with a rotatable rod having a cross bar at one end and a forked operating rod having its forks extending through spaced openings in said cross bar, of an anti-rattling device engaging with said operating rod at one side, extending downwardly at each side of the rod under and in engagement with the cross bar, formed into spring coils under the cross bar and thence extended upwardly and detachably connected with said operating rod at the side thereof opposite where it is first engaged by said device, substantially as described.

1,750,081. DIFFERENTIAL HELICAL CHUTE. ROBERT F. WOOD and ERNEST A. HECKLER, Glenside, Pa. Filed Sept. 18, 1928. Serial No. 305,798. 7 Claims. (Cl. 198—12.)

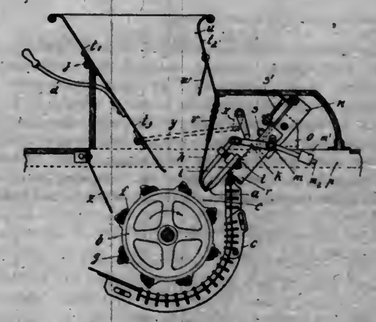


4. A substantially helical chute broken at intervals to permit of the insertion between certain convolutions of one end of a lateral lead-off chute.

1,750,082. PROCESS OF PURIFYING QUINOLINE AND QUINALDINE. MAX WYLER, Blackley, Manchester, England, assignor to British Dyestuffs Corporation Limited, Manchester, England. Filed May 5, 1927, Serial No. 189,176, and in Great Britain Sept. 6, 1926. 9 Claims. (Cl. 260—41.)

1. In the manufacture of pure quinaldines from crude reaction mixtures containing the same, the process which comprises converting the base in such a mixture into a double salt with zinc chloride by additions of zinc chloride and hydrochloric acid, and crystallizing out the resulting product.

1,750,083. THRASHING MACHINE. ILLÉS ZAYMUSZ, Budapest, Hungary. Filed Aug. 14, 1926, Serial No. 129,268, and in Hungary Aug. 19, 1925. 4 Claims. (Cl. 130—27.)



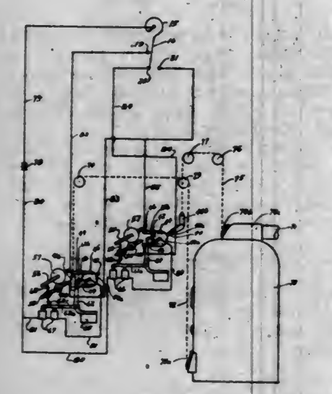
3. Thrashing machine comprising a frame, a thrashing drum rotatably carried in said frame, a concave in said frame, and a grate arranged at the feed opening between said drum and said concave at an obtuse angle to the tangent to the circumference at the line of intersection of the drum and grate.

1,750,084. SANITARY APPLIANCE. HENRY ABRAHAMSON, Chicago, Ill. Filed Apr. 25, 1928. Serial No. 272,732. 2 Claims. (Cl. 2—113.)



1. A sanitary appliance for the bust comprising an undergarment, and bust chafing preventing bands extending from the sides thereof and along the inside of the front, said bands being secured with their outer ends to said sides and being free of the garment at their opposite ends.

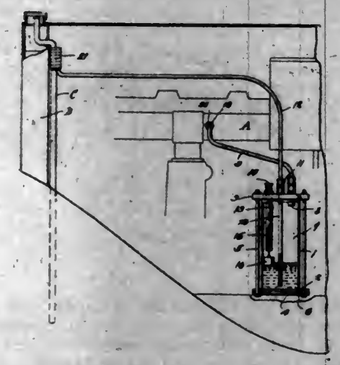
1,750,085. APPARATUS FOR REGULATING A HEATING MEANS. CLIFFORD M. AKINS, Minneapolis, Minn. Filed Nov. 4, 1927. Serial No. 231,037. 3 Claims. (Cl. 236—16.)



1. An apparatus for regulating a furnace having a draft damper and check damper, having in combination, a thermostat, means controlled by said thermostat upon a lowering of the temperature below a certain point in a room to be heated for closing said check damper, means controlled by said thermostat for opening the draft damper upon the further lowering of said temperature, and means for closing said draft damper and opening said check damper upon the temperature rising beyond said point.

1,750,086. GAS-SAVING ATTACHMENT FOR INTERNAL-COMBUSTION ENGINES. HENRY FRANK BEEMAN, Fort Collins, Colo. Filed Sept. 27, 1928. Serial No. 308,868. 2 Claims. (Cl. 123—25.)

1. A gas saving attachment for internal combustion engines including a tubular body, heads clamped thereagainst and cooperating therewith to provide a chamber for holding a heavy oil, a vapor supply tube opening downwardly into said chamber below the level of the oil, means for coupling said tube to the overflow tube of a radiator to receive vapor therefrom, a vapor outlet pipe extending from the upper end of the chamber and means for coupling the same to the intake manifold of an engine, an air intake

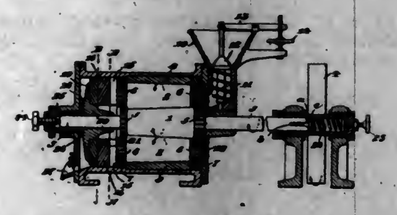


tube opening downwardly into the chamber, and float controlled means within the chamber for controlling the admission of air into said chamber.

1,750,087. PAINT, VARNISH, AND ENAMEL AND A METHOD OF THEIR PRODUCTION. WARREN F. BLEECKER and ELLSWORTH A. CLARK, Boulder, Colo. Filed Nov. 12, 1923. Serial No. 674,201. 3 Claims. (Cl. 134—54.)

1. A base for chemically-resistant and dielectric paints and kindred compositions, consisting of vulcanized rubber combined with lard-oil.

1,750,088. GRINDING MILL. THEODOR BRAGARD, Hamburg, Germany, assignor to the Firm of Macnowalsenmuhlen-Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Filed July 3, 1928, Serial No. 290,115, and in Germany June 9, 1927. 7 Claims. (Cl. 83—8.)



1. A grinding mill incorporating a casing, an annular grinding disc located in said casing, a plurality of planetarily driven grinding discs the end faces of which cooperate with said annular disc, grinding rolls connected with said planetarily driven grinding discs and a central roll about which the first named rolls rotate and which is externally driven, intermeshing spur gears on the rolls to planetarily drive the outer rolls from the central roll, the end faces of the spur gears at the exit ends of the planetary rolls carrying the movable discs.

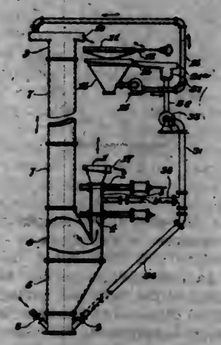
1,750,089. SURFACE-CONTROL MECHANISM FOR AIRPLANES. FRANK R. CANNEY, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed Mar. 26, 1928. Serial No. 264,894. 2 Claims. (Cl. 244—29.)

1. In a system for lateral control for aircraft, the combination of a pair of aerodynamically differential ailerons having normally equal and substantial angles of incidence, actuating means interconnecting said ailerons, cam mem-



bers interposed between said actuating means and said ailerons, means pivotally mounted on said ailerons for engagement with said cam members.

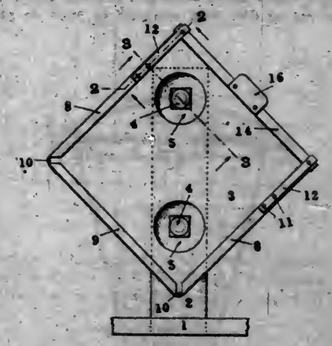
1,750,090. METHOD AND APPARATUS FOR SEPARATING MATERIALS OF DIFFERENT SPECIFIC GRAVITIES. THOMAS M. CHANCE, Merion Borough, Montgomery County, and HARRY O. STAPLES, Scranton, Pa. Original application filed Feb. 25, 1928, Serial No. 256,971. Divided and this application filed Mar. 26, 1929. Serial No. 349,005. 3 Claims. (Cl. 209—173.)



1. In a method for separating materials of different specific gravities by flotation of the lighter and sinking of the heavier of said materials in a fluid medium of intermediate specific gravity, consisting of a maintained suspension of comminuted solids in liquid, said solids being heavier than said liquid and substantially insoluble therein, the improvement which consists in providing a body of said fluid medium, extending upwardly from a region adjacent to the base of said body adapted to be used as a separating zone, to a region in which it is desired to deliver said lighter materials, in restraining upward movement of said fluid medium, whereby a substantially stationary fluid medium is utilized for separating and elevating said lighter materials, in causing said lighter materials to rise by the buoyancy of said materials to the top of said fluid medium, and in removing said elevated materials from said fluid medium.

1,750,091. PLACARD HOLDER FOR TANK CARS. WARREN E. COOPER, New York, N. Y., and FREDERICK K. HARRNICHT, St. Louis, Mo., assignors to Western Railway Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed July 19, 1923. Serial No. 293,999½. 5 Claims. (Cl. 40—17.)

1. In a device of the class described, the combination with a rectangular body portion provided at three sides with ways to receive the edge of a placard, the fourth side being adapted to allow the insertion and removal of the placard, of a spring actuated closure member movable

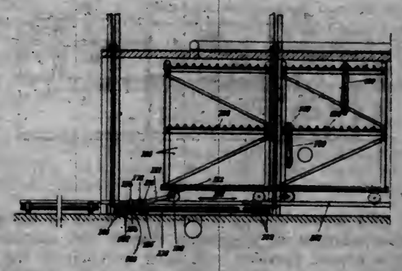


across the plane of the holder in a direction perpendicular thereto, said member extending across and completely covering the said fourth side when in normal position.

1,750,092. ELECTROPLATING PROCESS. ROBERT BRACE PENN CRAWFORD, Chicago, Ill., and ROY DIETRICH SNYDER, Hazleton, Pa. Filed Nov. 26, 1921, Serial No. 517,895. Renewed Jan. 22, 1930. 12 Claims. (Cl. 204—2.)

1. An electrolyte for electrodepositing an alloy of copper and nickel, which comprises nickel ammonium sulfate, copper oxalate, boric acid, nickel chloride, ammonium hydroxid, and water.

1,750,093. APPARATUS FOR BLEACHING TEXTILE FIBERS WITH A GASEOUS CURRENT SUCH AS OZONIZED AIR. EMILIO CRESPI, Crespi-sur-l'Adda, Italy, and MARIUS PAUL OTTO, Paris, France. Filed June 15, 1928, Serial No. 285,674, and in France Feb. 2, 1926. 4 Claims. (Cl. 260—19.)

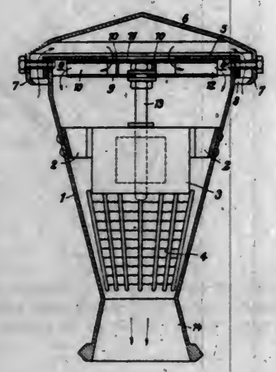


1. In a plant for bleaching textile fibers with a gaseous mixture such as ozonized air, the following combination; a tunnel (151); a chamber (152, 153) at each end of the tunnel; means for blowing the outer air into these chambers and for expelling the gaseous mixture which filters into them; trucks carrying hanks of yarn (170) and running in the tunnel (151); and means for pushing the trucks (166) from the chambers (152,153) into the tunnel (151).

1,750,094. HAND AND FACE DRYING DEVICE. PAUL EMMRICH, Dresden, Germany, assignor to Rudolf Christian von Loeben, Dresden, Germany. Filed Feb. 22, 1929, Serial No. 342,247, and in Germany Nov. 12, 1928. 2 Claims. (Cl. 34—26.)

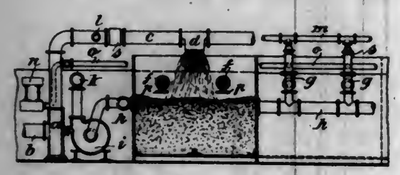
1. Hand and face drying device with a heater, a turbine wheel and a motor comprising in combination a case at-

tached to a wall and possessing a conical outlet opening, an annular covering disc within the upper part of the case adapted to cover the inlet opening of the device, the said turbine wheel being arranged slightly below the said annular covering disc and adapted to suck in air in an



axial direction and possessing a plurality of arcuate blades adapted to radially press out the sucked-up air, the said motor being arranged behind the said turbine wheel, a heater provided within the outlet opening of the said case behind the motor and being of the same shape as the opening so as to hug the inner wall.

1,750,095. HOLD FOR DREDGERS. FRIEDRICH EWIG, Brunswick, Germany. Filed June 6, 1928. Serial No. 283,351. 6 Claims. (Cl. 214—15.)

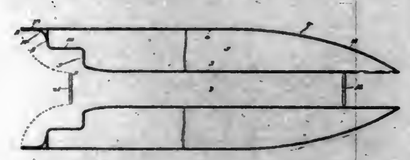


1. In a suction dredge for handling liquid having finely divided material in suspension therein, the combination with a hopper provided with sieve openings in the side walls thereof, of means for delivering the liquid and other material to said hopper, and a suction pump connected to said sieve openings for withdrawing the liquid whereby the finely divided material may be permitted to settle in said hopper.

1,750,096. METHOD OF SURFACING ROADS. SAM E. FINLEY, Atlanta, Ga. Filed Apr. 6, 1928. Serial No. 268,074. 6 Claims. (Cl. 94—23.)

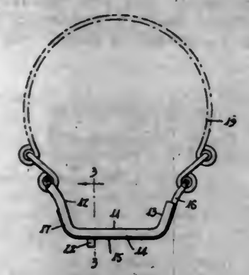
1. The method of surfacing roads which include bituminous cement in their structure, which comprises premixing mineral aggregate with a stable bituminous binder and a volatile solvent for the latter, the binder being in quantity to effectively bond the aggregate and form a homogeneous matrix therewith and applying the mixture in a substantially uniform layer to the road surface; whereby the binder of the mixture will be augmented by the cement of the road structure.

1,750,097. FLYING MACHINE. THOMAS M. FINLEY, St. Louis, Mo. Filed Oct. 18, 1928. Serial No. 312,841. 9 Claims. (Cl. 244—10.)



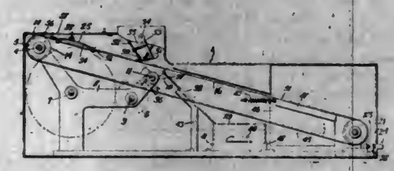
1. In a flying machine, a body having a longitudinal air channel or passage provided with a flaring mouth of step-like formation forming a plurality of shoulders providing suction pockets, said body having at the front of the mouth a relatively thin contact shield projecting in advance of the body and adapted to cut the air.

1,750,098. NONSKID DEVICE. MATHEW J. FRAMBACH, Hartley, Iowa. Filed July 28, 1927. Serial No. 209,075. 1 Claim. (Cl. 152—14.)



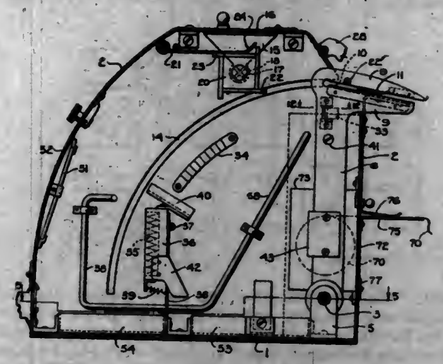
A saddle for a non-skid device adapted to fit astride a wheel felly and composed of two similarly shaped members in reversed positions and overlapping one another, each member having an intermediate portion to extend across the inner periphery of the felly and having outturned terminal portions to be disposed at opposite sides of the felly, one member having flanges along its edges to overlap the edges of the other member, one terminal portion of each member projecting beyond the corresponding terminal portion of the other member and having means for the connection of a flexible tread member, and means carried by one of said members to engage the other member for holding them together.

1,750,099. FINGERPRINT MACHINE AND METHOD. CHARLES F. GLASS, Brooklyn, N. Y., assignor to Fingerprint Machine Corporation, a Corporation of New York. Filed Aug. 29, 1919, Serial No. 320,593. Renewed Oct. 1, 1926. 4 Claims. (Cl. 41—4.)



2. In a machine for recording finger prints, the combination with means for supplying a pigment to a finger-impressed surface of a sheet, means for heating the pigment to fix it to the sheet and means for moving the said surface in a substantially straight line past said pigment-supplying and fixing means.

1,750,100. FINGERPRINT MACHINE AND METHOD. CHARLES F. GLASS, Brooklyn, N. Y., assignor to Fingerprint Machine Corporation, a Corporation of New York. Filed Oct. 23, 1920, Serial No. 418,867. Renewed Mar. 24, 1924. 32 Claims. (Cl. 41—4.)



17. The method of recording a finger print which consists in causing the finger to be impressed upon the sheet, applying pigment to the impression, increasing the angle of the sheet to the horizontal to facilitate the sliding off of the surplus pigment particles and fixing the pigment to the sheet.

26. In a machine for recording finger impressions, the combination with means adapted to support a surface in position to receive a finger impression, of means adapted to apply pigment to the finger impression, means for heating the pigment to fix it to the finger lines on said surface, means for conveying the impressed surface from the point of impression to the point of pigment application and thence to the point of pigment fixation, and means for protecting the impressed surface from the point of impression to the point of fixation and means between the point of pigment application and the point of fixation for removing surplus pigment.

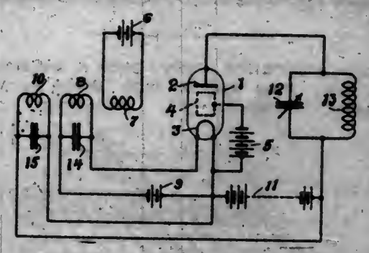
1,750,101. GAS-GENERATING CHEMICAL. BYRON C. GOSS, Cleveland, Ohio, assignor to The Lake Erie Chemical Company, a Corporation of Ohio. Filed Jan. 19, 1927. Serial No. 162,178. 15 Claims. (Cl. 167—47.)



6. Gas generating chemicals comprising as a solute, a dissolved chemical capable of developing a fuming, blinding or disabling gas, in a solvent having the property of forming an intermolecular mixture therewith, and thereby producing a resulting solution having a smaller volume than the sum of the separate volume of the components of said resulting solution.

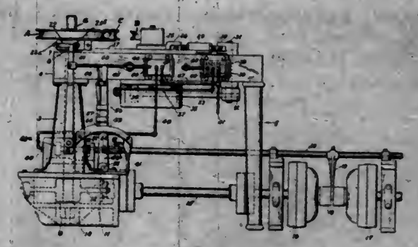
1,750,102. DISCHARGE-TUBE SYSTEM. WALTER HAHNEMANN, Berlin-Marienfelde, Germany, assignor to C. Lorens Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed June 21, 1928, Serial No. 287,274, and in Germany June 24, 1927. 7 Claims. (Cl. 250—36.)

2. In an electric discharge device having main electrodes, means to produce an electric discharge stream between said electrodes, means acting on said discharge stream to produce a negative resistance effect between said main electrodes and means responsive to said first means



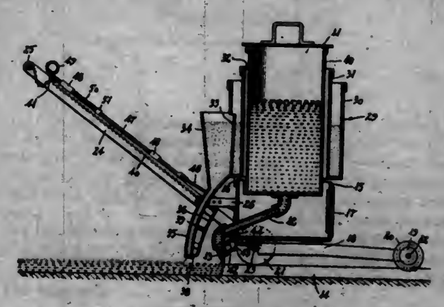
and adapted to influence the value of the negative resistance in such a way as to compensate variations of the negative resistance caused by variations of said first means.

1,750,103. PEDESTAL BENDING MACHINE. HARRY E. HARVEY and EARL K. HOLMES, Cleveland, Ohio, assignors, by mesne assignments, to Steel and Tubes, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed May 13, 1926. Serial No. 108,885. 20 Claims. (Cl. 153—40.)



1. A bending machine comprising a rotatable bending roll, a holding member having a supporting roll associated therewith, said holding member and roll being movable toward and away from the bending roll in a direction radial of the latter, means for actuating the holding member toward the bending roll, means for automatically moving the holding member away from the bending roll when the last said means is in released position, and means including a starting lever for rotating, reversing and finally stopping the bending roll.

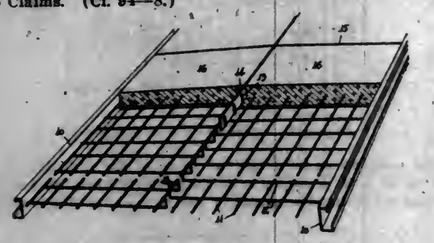
1,750,104. JOINT-FILLING MACHINE. JOHN N. HELTZEL, Warren, Ohio. Filed Nov. 19, 1926. Serial No. 149,441. 7 Claims. (Cl. 94—39.)



7. A machine of the character described comprising a container for one material having a discharge spout, an annular container for another material surrounding the first-named container, said annular container having an opening in the outer wall thereof, a funnel secured to said

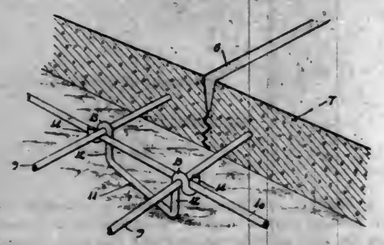
outer wall across said opening and communicating with said annular container through said opening, said funnel having a discharge spout in rear of the first-named spout, and means controlling the flow of materials through said spouts.

1,750,105. CONCRETE JOINT. JOHN N. HELTZEL, Warren, Ohio. Filed Nov. 19, 1926. Serial No. 149,443. 6 Claims. (Cl. 94—8.)



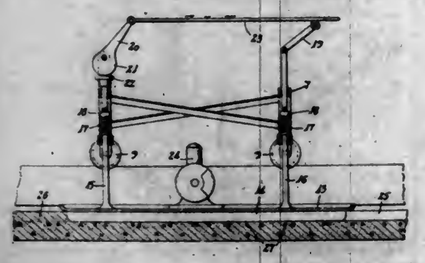
3. A concrete surfacing structure reinforcement, and a joint defining strip extending thereover, said reinforcement including rods having upturned terminals holding said strip in place.

1,750,106. REENFORCING-ROD CHAIR. JOHN N. HELTZEL, Warren, Ohio. Filed May 7, 1927. Serial No. 189,544. 19 Claims. (Cl. 94—8.)



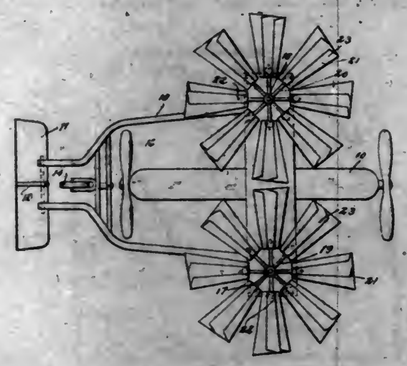
14. The combination with spaced reenforcing rods and a third reenforcing rod crossing same, of a chair having a base to seat on a surface, and spaced pedestals rising from and connected by said base, said pedestals being bent in planes at angles to one another to engage said spaced and third rods.

1,750,107. JOINT-PRODUCING MACHINE. JOHN N. HELTZEL, Warren, Ohio. Filed Apr. 26, 1929. Serial No. 358,330. 14 Claims. (Cl. 94—39.)



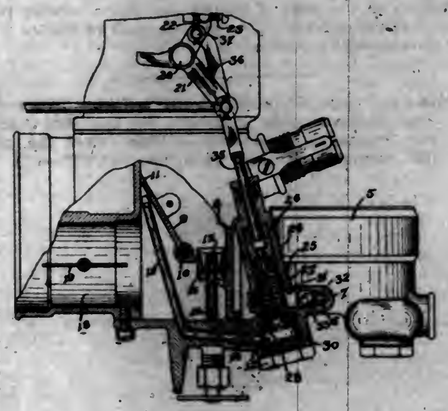
3. A joint machine comprising a carriage movable longitudinally over plastic concrete and having a longitudinal rail extending parallel to the direction of movement of the carriage, and joint producing means movable along said rail.

1,750,108. HELICOPTER AEROPLANE WITH A PLURALITY OF PROPELLERS. JAKOB HOJNOWSKI, Nekoosa, Wis. Filed May 6, 1929. Serial No. 360,850. 2 Claims. (Cl. 244—19.)



1. In an aeroplane of the helicopter type including a fuselage, a pair of motor driven vertical shafts laterally disposed to the fuselage, a pair of wind-mill wings on two of said shafts, each of said wings composed of a spider secured to its shaft, and wing-body secured to the ends of the spider branches, clamps for securing said wing body to said branches, and a plurality of planes angularly disposed to said wing body.

1,750,109. THROTTLE-PUMP CARBURETOR. CHARLES H. KIRBY, Flint, Mich., assignor to "Marvel Carbureter Company," Flint, Mich., a Corporation of Indiana. Filed July 3, 1924. Serial No. 724,280. 8 Claims. (Cl. 261—41.)

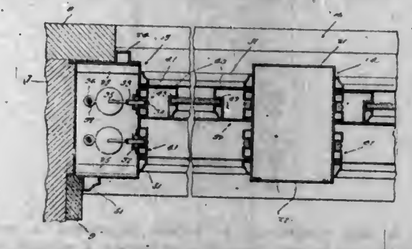


1. In a carburetor including a throttle and a float chamber, a fuel pump operatively connected to the throttle and drawing fuel from the float chamber, and a lost motion in said operating connection to the throttle whereby the pump is not brought into action until after a predetermined movement of the throttle.

1,750,110. WINDOW CONSTRUCTION. ALFRED H. KLIM, EDWIN JOHNSON, ARTHUR NELSON, ALLEN O. BELIN, and ANDREW L. LUNDSTEN, Jamestown, N. Y. Filed Dec. 4, 1926. Serial No. 323,684. 2 Claims. (Cl. 189—72.)

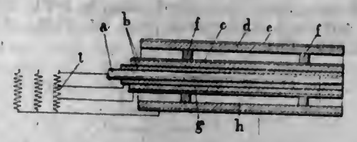
1. In a window construction of the class described, an all metal window frame comprising a sill plate adapted

for horizontal disposition, a pair of vertically disposed stiles disposed at the opposite ends of and rising from said plate, a mullion post rising from the center of the plate, a head jamb bridging and connected to said stiles and mullion post, vertically disposed rib equipped guides



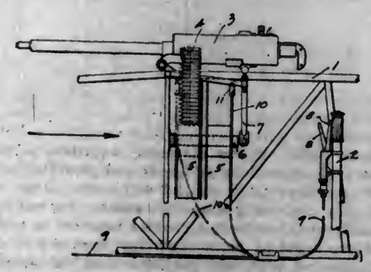
fastened to said stiles and post, and vertically slidable window sashes including vertical side members slidably contacting said guides, said side members comprising spaced opposed side walls having a single connecting wall at one end only thereof adapted to support a pane of glass, the free ends of said side walls embracing the guides.

1,750,111. HIGH-TENSION CABLE. PAUL MAHLKE, Cologne-Nippes, Germany, assignor to Felten & Guilleaume Carlswork Actien-Gesellschaft, Cologne, Mulheim, Germany. Filed Mar. 18, 1929, Serial No. 348,089, and in Germany Mar. 22, 1928. 4 Claims. (Cl. 173—264.)



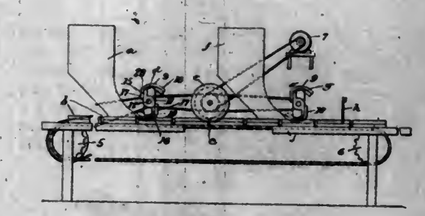
3. An underground conductor for very high voltages, comprising in combination a cable consisting of a conductor, layered insulation on the conductor, a metal sheath on the said layered insulation, a pipe surrounding the said cable, distance pieces between the metal sheath of the cable and the pipe for holding the cable centrally in the said pipe and an elastic medium for filling the space between the metal sheath of the cable and the pipe, as and for the purpose set forth.

1,750,112. GUN-FEEDING MECHANISM. LOUIS S. MARSH, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed Mar. 26, 1928. Serial No. 264,722. 4 Claims. (Cl. 89—33.)



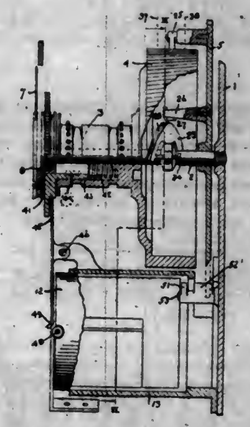
1. In apparatus of the class described, the combination of a cartridge reel, cartridges adapted to be drawn therefrom in belt-like formation, means operable simultaneously with the trigger of a machine gun for intermittently arresting the feeding action of said cartridge reel, said arresting occurring immediately after the firing of the gun.

1,750,113. METHOD FOR FORMING SLABS. GEORGE C. MARTIN, Los Angeles, Calif. Filed Mar. 6, 1928. Serial No. 259,473. 5 Claims. (Cl. 25—155.)



1. The method of forming waterproof concrete tile which consists in first forming the concrete tile to shape, and while it is still wet packing thereon a waterproof substance to draw a thin layer of cement from the concrete to the surface of said waterproof material.

1,750,114. VARIABLE-SPEED MECHANISM. ARTHUR R. MASON and OTTO C. FAILING, Medford, Oreg., assignors to Accurate Gasoline Recording Company, a Corporation of Oregon. Filed June 27, 1928. Serial No. 288,710. 4 Claims. (Cl. 74—54.)

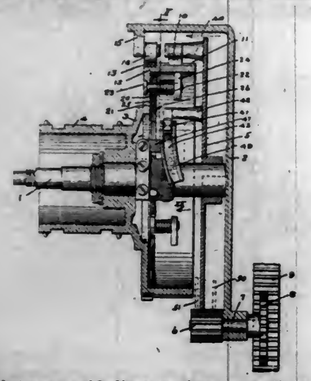


1. In speed variable mechanism, a driving element and a driven element, a track member adjustably fixed in a stationary position adjacent to one of said elements, means engaging and adapted to travel under the guidance of said track and fixed to the other of said elements, ratchet skew teeth on one of said elements and pawl means on the other of said elements, whereby when the track member is adjustably displaced then the travel of said first means compels a predetermined relative displacement between the elements.

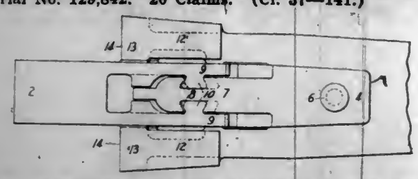
1,750,115. POSITIVE-POSITION TIMING CLUTCH. ARTHUR R. MASON, Medford, Oreg. Filed Nov. 24, 1928. Serial No. 321,652. 8 Claims. (Cl. 285—91.)

3. A positive position mechanism comprising a circular element having ratchet teeth, a stationary shaft about

which said element is adapted to be driven intermittently in one direction, a pair of discs within said element, a friction plate between said discs, spring connections between said plate and said shaft, other springs means compressing said discs against said plate.

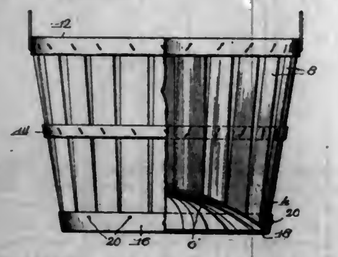


1,750,116. TEETH FOR EXCAVATING DIPPERS AND THE LIKE. WALTER EDWARD MILEY, Marion, Ohio, assignor to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Filed Aug. 17, 1926. Serial No. 129,842. 20 Claims. (Cl. 37—141.)



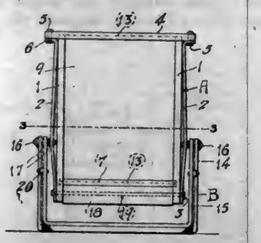
20. In an excavating dipper, a plurality of teeth secured to the front of said dipper and spaced one from the other, each of said teeth having a part extending laterally from each side thereof, upwardly and rearwardly inclined supplemental cutters carried by said laterally extending parts between adjacent teeth and having their forward edges adjacent to the lower surfaces of said teeth.

1,750,117. BASKET. GEORGE OTIS RESHAW, Los Angeles, Calif. Filed Apr. 18, 1927. Serial No. 184,521. 2 Claims. (Cl. 217—123.)



2. A tub basket comprising a plurality of staves each having a central portion extending across the bottom of the basket and end portions bent upwardly at an abrupt angle to the central portion to form the sides of the basket, a plurality of hoops holding the staves in substantially cylindrical form and one of said hoops being of substantially L-shape in cross section and covering the bottom corner of the basket, the said central portions of the staves being longer than the diameter of the basket bottom and held in upwardly bowed form by engagement of the ends thereof in the corner of the aforesaid L-shaped hoop.

1,750,118. SIGN. CHARLES C. MUELLER, Jr., and DANIEL C. WENDEL, Newark, N. J. Filed Apr. 2, 1928. Serial No. 266,498. 4 Claims. (Cl. 40—138.)



2. A sign comprising a vertical sign-board, a metal strap secured to each vertical side thereof, a support, and pivotal means connected to said straps and said support for pivotally mounting said sign-board upon said support, the lower ends of said straps extending beyond the lower end of said board, and a counter-weight mounted between said ends of said straps to yieldingly hold said board in a vertical plane.

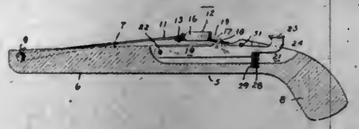
4. A sign-board comprising a frame having its sides formed with undercut grooves, and a sign panel comprising two superposed metal plates having their edges bent in opposite directions at angles to the planes of said plates and fitted into said grooves.

1,750,119. PROTECTIVE HOLDER. PAUL MÜLLER, Solingen, Germany. Filed Aug. 8, 1927, Serial No. 211,594, and in Germany Mar. 26, 1927. 2 Claims. (Cl. 206—16.)



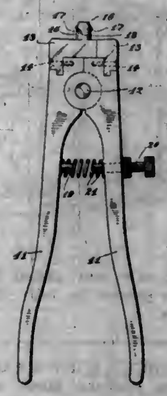
1. An assembly comprising a hollow ground single edged razor blade having a thick back, and a holder consisting of a U-shaped clamp the limbs of which are provided with edges on their opposing sides bearing against opposing sides of the blade, spacing the free ends of the said limbs apart and clamping the blade in place, said limbs being of greater width than the razor blade so that their free edges extend beyond the cutting edge of the blade and said limbs having notches in their ends exposing the ends of the blade and facilitating gripping of the blade.

1,750,120. SERPENTINE PROJECTOR. ARTHUR H. NUNEMACHER, San Francisco, Calif. Filed Apr. 27, 1927. Serial No. 186,865. 2 Claims. (Cl. 124—14.)



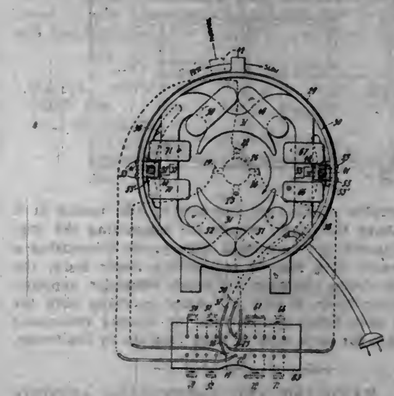
1. In a device of the character described, a body, a member projectible along said body and providing a socket for the reception of a roll of serpentine paper, means operative to resiliently urge said member outwardly of a retracted position thereof, a member mounted in said body and having a detent tooth extending upwardly therefrom for engagement with said projectile member to hold the same in retracted position, means operative to resiliently urge said last detent tooth to remain disposed for engagement with said projectile member, and means extending upwardly from said second named member whereby it may be displaced downwardly to release said tooth from engagement with said projectile member.

1,750,121. TOOL. LEON OTTINGER, New York, N. Y. Original application filed Mar. 4, 1927, Serial No. 172,905. Divided and this application filed Aug. 19, 1927. Serial No. 214,015. 1 Claim. (Cl. 81—5.1.)



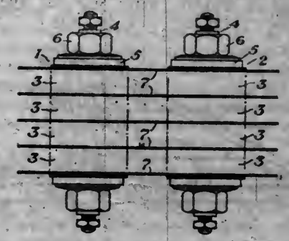
A tool comprising a pair of intermediately pivoted levers having expandingly coacting, concave, beveled cutting jaws adapted to slit and interlockingly attach a bushing to an apertured plate.

1,750,122. ELECTRIC MOTOR. ALFRED E. OSWALD, Hackensack, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 12, 1925. Serial No. 55,943. 10 Claims. (Cl. 172—276.)



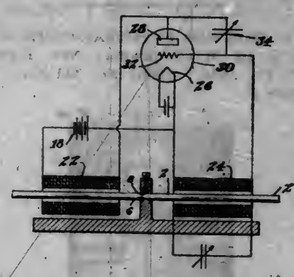
10. An electric motor for use on direct current and alternating currents of different frequencies, having an armature, a bipolar field-magnet having diametrically opposite pole-members joined by yokes to form an annular magnet, main field-coils on each yoke adjacent said pole-members, auxiliary field-coils on each yoke disposed between the main field-coils, a commutator, a pair of main brushes at diametrically opposite sides of said commutator, a pair of auxiliary brushes also at diametrically opposite sides of said commutator between the main brushes, electrical connections whereby said brushes and coils are brought into a predetermined co-operative relation for operating said motor at a certain speed and power on a certain kind of current, said auxiliary brushes, in said relation, co-operating to supply current induced or flowing in said armature to a certain portion of said field-coils, and means for shifting the field-magnet position relative to all of said brushes to thereby vary the electromotive force of the main and auxiliary brushes to vary the speed and power of the motor afforded by the aforesaid predetermined cooperative relation of the brushes and coils.

1,750,123. APPARATUS FOR RECTIFYING ALTERNATING ELECTRIC CURRENTS. LESLIE HURST PETER, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 15, 1928, Serial No. 319,525, and in Great Britain Dec. 19, 1927. 1 Claim. (Cl. 175—366.)



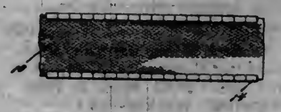
Apparatus for rectifying alternating electric currents comprising a number of rectifying elements arranged in two groups, and a plurality of conducting plates each electrically connecting an element in one group with the corresponding element in the other group, said plates serving also to dissipate the heat generated in the apparatus.

1,750,124. VIBRATORY SYSTEM AND METHOD. GEORGE W. PIERCE, Cambridge, Mass. Filed Jan. 3, 1927. Serial No. 158,452. 19 Claims. (Cl. 250—36.)



1. A magnetostrictive mechanically-tuned alternating-current system comprising a magnetostrictive vibrator with windings magnetically cooperative with said vibrator, a vacuum tube having plate, grid and filament, a part of said windings being in the plate-filament circuit and a part of said windings in the grid-filament circuit to produce sustained vibrations, a natural frequency of mechanical vibration of the vibrator being substantially equal to a predetermined frequency of the alternating current of the system.

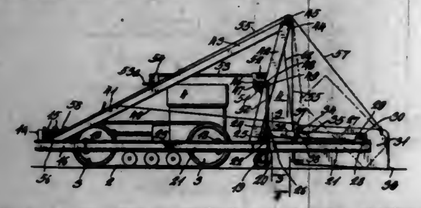
1,750,125. BRACELET STRAP. EUGEN PRESTINARI, Irvington, N. J., assignor to Gemex Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 14, 1929. Serial No. 346,971. 2 Claims. (Cl. 63—11.)



1. A bracelet strap comprising a body formed of intermeshing strands of wire, cross bars on the back of

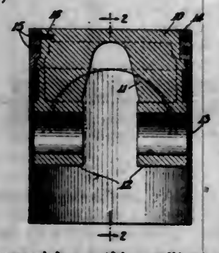
said body extending laterally thereof with their extremities in close adjacency and folded over the edges of the body to form a border for the front of the strap, the portion of said bars intermediate the extremities being narrow to permit of flexibility, and projections on said cross bars and also intermediate their peripherial edges and adjacent the side edges of said body to extend into said body and prevent sliding and detachment of said bars from said body.

1,750,126. POWER-OPERATED SCRAPER. HAROLD M. PURSEL, Casper, Wyo., assignor to Sharrock and Pursel, Casper, Wyo., a Copartnership of W. G. Sharrock and Harold M. Pursel. Filed Mar. 30, 1929. Serial No. 351,138. 7 Claims. (Cl. 37—128.)



1. A power grader employing a tractor, horizontal beams secured to the sides of the tractor and projecting beyond the front end thereof, a scraper located between the front ends of the beams, a pair of links having their rear ends pivotally connected with the beams and their front ends pivotally connected with the sides of the scraper near the front of the latter, means for tilting the links and scraper about the former's pivotal connection with the beams without tilting the scraper relative to the links and means for tilting the scraper relative to the links while the latter remain stationary relative to the beams.

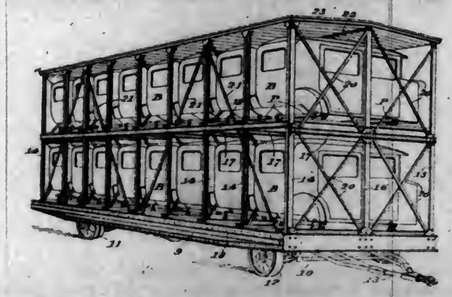
1,750,127. PISTON FOR INTERNAL-COMBUSTION ENGINES. HUGH M. ROCKWELL, New Haven, Conn. Filed Oct. 12, 1926. Serial No. 141,045. 2 Claims. (Cl. 74—108.)



1. A piston comprising a thin resilient cylindrical skirt having a collar at one end of less internal diameter than the remainder, said collar having a threaded recess, a head contained completely within said skirt, said head having a portion closing the end of said skirt and a threaded portion of larger diameter engaging said threaded recess, piston ring grooves in said collar, a pin extending through said collar and into said head to prevent relative rotation, said pin being held in place by a piston ring, and wrist pin bosses carried by said head, said skirt having a continuous lateral surface extending beyond said bosses.

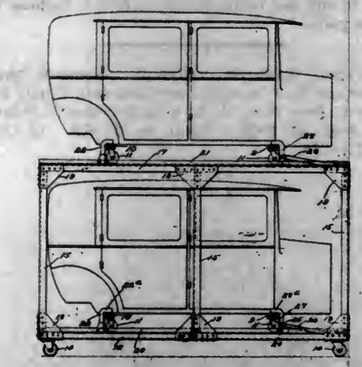
1,750,128. TRAILER FOR AUTOMOBILE BODIES. ROBERT T. ROMINE, Mount Clemens, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 3, 1926. Serial No. 133,375. 8 Claims. (Cl. 214—38.)

1. A portable conveyance for transporting a series of automobile bodies, each body carried on front and rear bars having supporting rollers, said conveyance having fixed locking members engaging one of the bars and shiftable locking members engaging the other bar, and



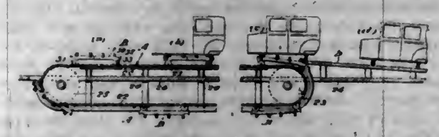
means for shifting said last named locking members beneath the bars to permit the body to be moved onto or off the conveyance.

1,750,129. AUTOMOBILE BODY HANDLING. ROBERT T. ROMINE, Mount Clemens, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 12, 1926, Serial No. 141,133. Renewed July 25, 1929. 4 Claims. (Cl. 280—1.)



1. A portable conveyance for moving two bodies at a time one above the other, wheels for supporting the conveyance adjacent the floor, said conveyance comprising a skeleton frame of a size to enclose the lower body, the top of said frame forming an upper deck for supporting the upper body, a pair of caster carrying bars for supporting each body, and devices for locking the caster carrying bars for each body in fixed relation to the frame.

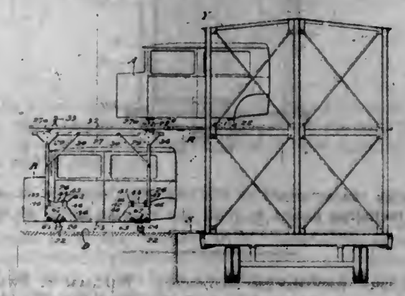
1,750,130. HANDLING AND ASSEMBLING AUTOMOBILE BODIES. ROBERT T. ROMINE, Mount Clemens, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 27, 1926. Serial No. 144,494. 16 Claims. (Cl. 29—89.)



1. The hereindescribed method of handling and assembling automobile bodies, consisting in progressively assembling the frame members of the bodies along an assembly line, detachably connecting caster bars to the bottom of the bodies at predetermined points along the

assembly line, moving the bodies from the assembly line to a trim assembly line on their casters, and progressively trimming the bodies during their movement on the casters along the trim assembly line.

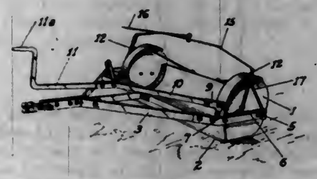
1,750,131. AUTOMOBILE BODY HANDLING. ROBERT T. ROMINE, Mount Clemens, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 2, 1927. Serial No. 165,880. 17 Claims. (Cl. 280—29.)



1. A portable apparatus for carrying automobile bodies in double deck relation, comprising a frame, means for supporting the upper body on said frame, independent caster carrying bars for supporting the lower body, and means for connecting said frame to said bars.

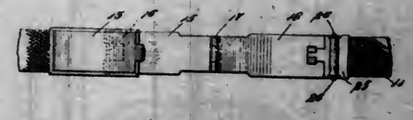
12. In combination with a rack for handling automobile bodies in double-deck relation and caster supports for supporting each body, of means carried by the rack for detachably connecting said rack to the caster supports for the lower body to support the rack thereupon, and locking means for said first mentioned means.

1,750,132. SCRAPER. BRUCE E. ROSS, Exeter, Calif. Filed Feb. 9, 1929. Serial No. 338,809. 5 Claims. (Cl. 37—140.)



1. A scraper comprising a bowl having side trunnions, longitudinally extending draft beams having longitudinal slots through which the trunnions slidably project, arms pivoted at their forward ends onto the beams ahead of the trunnions, bars pivoted at their forward ends on the rear ends of the arms and at their rear ends on the trunnions; said trunnions, when the arms and bars are in straight alinement with each other being disposed toward the rear ends of the slots, means maintaining the bowl normally rigid with the bars and in such relation thereto that the bowl has an upward bottom slope from back to front when the bars are disposed in said straight alinement with the arms, and means for turning said arms downwardly about the pivots to cause the bars to be lowered at their forward ends and the bowl to be likewise lowered at its forward end so that the bottom slope of the bowl is reversed.

1,750,133. CLASP FOR FOLDABLE EXTENSION DEVICES. WILFRID J. ROY, Newark, N. J., assignor to Gemex Company, Newark, N. J., a Corporation of New Jersey. Filed Feb. 21, 1929. Serial No. 341,660. 9 Claims. (Cl. 24—71.)

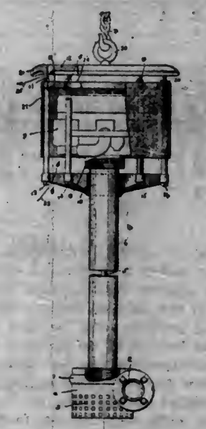


1. An extension device including a plurality of sections hinged together to fold one on another, means on said sections for securing strap ends thereto, a separate resilient latch member, means for so holding said member on one section that it can be lifted from position after one of the strap ends has been removed therefrom, another section having catch means engageable with said latch member to hold the sections in folded position.

1,750,134. LUBRICANT. EDWARD A. RUDIGER, Baltimore, Md., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Apr. 23, 1924. Serial No. 708,384. 3 Claims. (Cl. 87—9.)

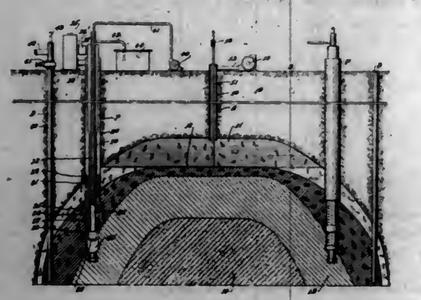
2. A lubricant comprising a heavy oil containing sodium naphthenate compounded with a mineral thinning oil having a viscosity within the approximate range of 65 to 200 sec. Saybolt at 100° F., the product having a viscosity of 135–140 sec. Saybolt at 212° F. and a pour test not higher than 37° F.

1,750,135. PUMP. GEORGE T. RUXTON, Alameda, Calif., assignor to Pacific Pumping Co., San Francisco, Calif., a Corporation of California. Filed July 28, 1928. Serial No. 294,676. 1 Claim. (Cl. 103—87.)



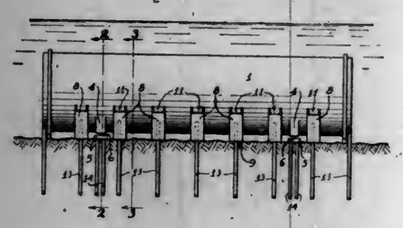
A vertical shaft centrifugal pump comprising motor means having a rotor and a stationary frame, an impeller, and a casing for the impeller, a hollow column fixed at each end by circular machined joints to said frame and to said casing, and having a concentric circular exterior portion, a shaft central within said column and having the rotor fixed on one end and the impeller on the other end thereof, a spider having a machined joint with said column portion, a ventilating ring over said motor means, a cover over said ring and a plurality of spacing members connecting said spider said ring and said cover in spaced relation and positioned concentric with said column.

1,750,136. SULPHUR MINING. JAMES E. SCHROEDER, Houston, Tex. Filed Mar. 9, 1922. Serial No. 542,223. 1 Claim. (Cl. 262—3.)



Apparatus for mining sulphur from underground deposits having, in combination, a producing well for introducing a heating medium into the deposit to effect the melting of the sulphur content and for removing the sulphur so melted, an air well extending down to the highest point of the sulphur-deposit for conducting air to form a heat-insulating layer immediately above the deposit, means connected to said air well for highly compressing the air and forcing it down the well and a theft pipe disposed within said air well for determining the depth of the air layer above the deposit.

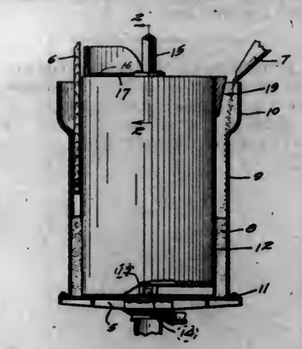
1,750,137. METHOD OF AND APPARATUS FOR SETTING PRECAST FORMS IN AQUEOUS BODIES. FRANCIS BETTS SMITH, San Francisco, Calif. Filed Oct. 27, 1928. Serial No. 315,417. 8 Claims. (Cl. 61—43.)



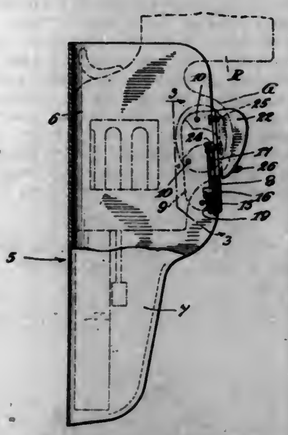
1. The method of setting submersible structures containing buoyancy means and carrying spaced hollow foundation forms in aqueous bodies which consists in preparing the bottom of the aqueous body by driving piles thereinto, arranged in groups, with the ends of the piles projecting above the bottom of the aqueous body, the groups being spaced corresponding to the distance between the hollow foundation forms, operating the buoyancy means to cause the gradual submergence of the structure to its desired position with each hollow foundation form receiving through its bottom the projecting ends of one of the groups of piles, then filling the foundation forms with concrete to form therein foundations in which the projecting ends of said piles are embedded.

1,750,138. BELL-PIPE MOLD. CLAUDE S. SORENSEN, Los Angeles, Calif. Filed Mar. 5, 1928. Serial No. 259,068. 8 Claims. (Cl. 25—37.)

1. A mold for forming bell end cementitious pipes and tamping of the same comprising a main core normally stationary, a jacket rotatable with relation to said main core, a bell core ring on said main core having a longitudinally extending passage aligned with the body space between said jacket and core for accommodating a tamping stick characterized by the ring being turnable on said core including means to limit the angular travel of said ring.



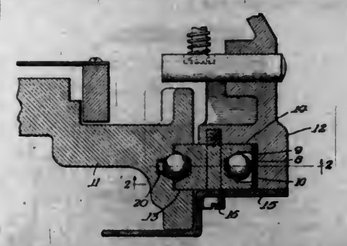
1,750,139. REVOLVER HOLSTER. WILLIAM S. SWIFT, Westerleigh, Staten Island, N. Y. Filed Feb. 15, 1928. Serial No. 254,351. 5 Claims. (Cl. 224—2.)



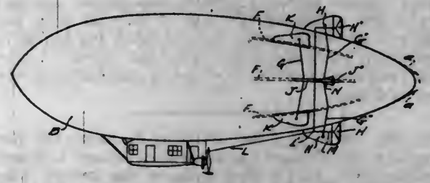
1. A revolver holster having an upper section open at its rear side, a plate fixed to the side walls of said holster section and bridging the rear open side thereof, said plate having a vertical recess open at its upper end to receive the trigger guard of the revolver and provided at its lower end with a seat for said guard, a latch lever pivotally mounted upon said bridge plate below said seat, said lever having a hook on one end, a spring connected with said lever to hold the same against pivotal movement and retain the hook thereof over the trigger guard, and an actuating member mounted on the bridge plate for movement in a plane parallel to the plane of movement of the latch, said member having means slidably engaged with the latch lever to move the latter to its released position.

1,750,140. ANTIFRICTION BEARING. HERBERT L. THOMPSON, Elgin, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 31, 1927. Serial No. 243,868. 5 Claims. (Cl. 308—6.)

5. The combination of a rigid member having a guide groove therein and a movable member having a recess therein, the inner wall of said recess being inclined longitudinally and relatively to the back wall of said groove, and a wedge shaped bearing secured in said recess and operating in said groove, said groove comprising a body having a ball race thereabout, a plurality of balls in the race, and a retainer for holding the balls in the outer part and the ends of the race, the remaining balls engaging the back wall of said groove.

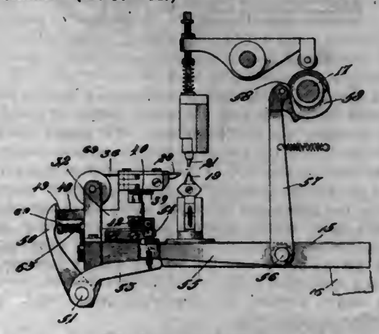


1,750,141. AIRSHIP FINS AND STABILIZATION. RALPH H. UPSON, Detroit, Mich., assignor to Aircraft Development Corporation, Detroit, Mich., a Corporation of Michigan. Filed Sept. 10, 1926. Serial No. 134,590. 6 Claims. (Cl. 244—3.)



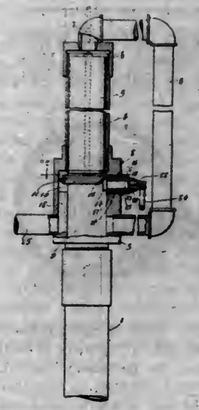
6. In an airship, a fin system including a plurality of individual fin areas, extending longitudinally generally on meridian lines of hull radially from the hull surface, and having one or more of the individual fins positioned in advance of the other individual fin with respect to the ship's length.

1,750,142. LINK-WELDING MACHINE. HERMANN WEINACKER, Maplewood, N. J., assignor to Universal Chain Co. Inc., Maplewood, N. J., a Corporation of Rhode Island. Filed Aug. 6, 1927. Serial No. 211,179. 11 Claims. (Cl. 59—31.)



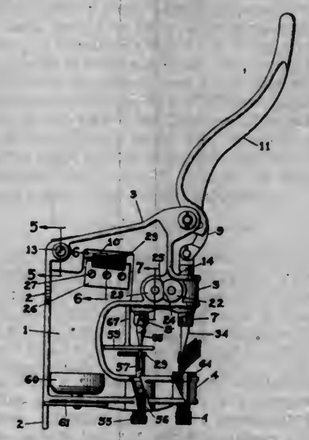
1. In a chain or link-forming machine, means for feeding, severing, and bending a length of link wire into open link form, a solder strip carrier, means for imparting a bodily longitudinal movement to the carrier, means for simultaneously advancing the solder strip in the carrier relative to and during the forward movement of the carrier to its operating position, and means for subsequently closing the loop upon the solder.

1,750,143. CEMENTING HEAD. NEWTON W. WICKERSHAM, Los Angeles, Calif., assignor to Perkins Cementing, Inc., Los Angeles, Calif., a Corporation of California. Filed Sept. 18, 1928. Serial No. 306,666. 5 Claims. (Cl. 166—1.)



1. A casing head having means for receiving a cementing plug and having a chamber below said means, with a latch in said chamber pivotally mounted on one side of the chamber for supporting the plug, and means for operating said latch to permit the same to move away from the plug to permit the same to descend.

1,750,144. BRAKE-LINING MACHINE. ANDREW O. WISTI, Indianapolis, Ind. Filed Apr. 12, 1928. Serial No. 269,467. 8 Claims. (Cl. 29—34.)

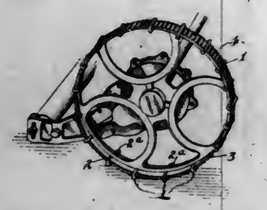


1. In a machine for relining brake shoes and the like, a frame structure; a pair of plungers; tools attached to said plungers; a lever mechanism for operating one of said plungers, and a pair of intermeshing gears for operating the other plunger simultaneously with the lever operated plunger.

8. The combination with a machine for relining brake bands and the like, of a cutting blade pivoted at one end to said machine; a support for said cutting blade formed to straddle the pivoted portion of said blade with dually arranged bosses; a screw means threaded thru one of said bosses and having a reduced end portion extending into

the other boss; a shoulder formed on said screw end portion at the juncture of the reduced end portion; a sleeve threaded into said other boss, and fitting over the end portion of said screw; and a screw threaded into the reduced end of said screw, the head of which embraces said sleeve.

1,750,145. CLEATED GROUND WHEEL. CHARLES C. WORTHINGTON, Dunfield, N. J. Filed Jan. 25, 1926. Serial No. 83,585. 3 Claims. (Cl. 301—44.)



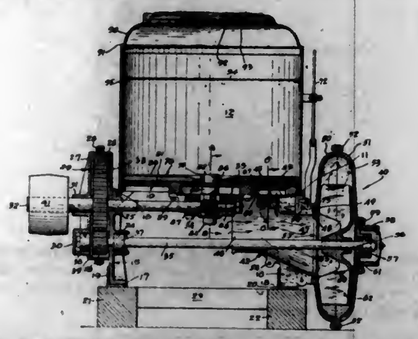
2. In combination with a lawn-mower ground wheel having a corrugated rim, a plurality of individual traction cleats spaced around the periphery thereof and each comprising a body portion adapted to cooperate with the rim corrugations and having inwardly displaced end portions integral therewith and adapted to hold the cleat loosely on the rim to permit local movement of the cleat relatively to the rim, limited by said corrugations.

1,750,146. FLUID-OPERATED PUMP. JAMES A. WRAY, Los Angeles, Calif. Filed Dec. 28, 1926. Serial No. 157,456. 10 Claims. (Cl. 121—129.)



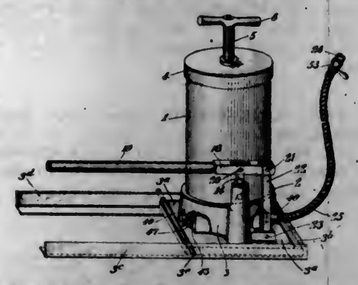
1. In combination with a well casing, a fluid motor for a pump comprising a shell mounted within said casing and spaced therefrom to form an annular motive fluid inlet space, a motor cylinder disposed within said shell and spaced therefrom to form therewith an annular motive fluid exhaust space, there being intake ports in said shell and said cylinder disposed in registration, there being exhaust ports in said cylinder, valves slidably mounted in said exhaust space for controlling said intake ports, said valves having intake ports for registration with the intake ports in said shell and cylinder and exhaust ports in said valve having peripheral communication with said exhaust space, a reciprocable operating rod within said cylinder, motor pistons secured to said operating rod for reciprocation in said cylinder, said valves being slidably mounted on said operating rod, and tappet means on said rod to engage and move said valves.

1,750,147. PLANT-DUSTING MACHINE. JACOB H. WRIGHT, Oakland, Calif., assignor to Western Sulphur Company, Inc., San Francisco, Calif., a Corporation of California. Filed June 6, 1927. Serial No. 196,707. 3 Claims. (Cl. 43—148.)



1. In a plant-dusting machine; a hopper having a plane bottom; a rotary agitator in said hopper and having its blades arranged to form substantially a scraping contact with the hopper bottom; a manifold mounted below said hopper, said manifold having an open air intake end, an outlet end, and a feed opening communicating with said hopper; means operative between said hopper and feed opening for regulating the flow of material from said hopper; a blower carried by said manifold and having its suction side connected to the outlet end thereof; a drive shaft; and gear means for driving said agitator and blower from said shaft.

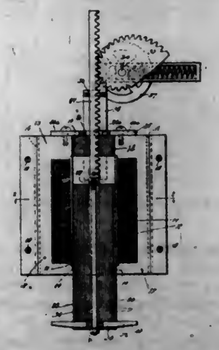
1,750,148. GREASE GUN. CHARLES L. ZABRISKIE, New York, N. Y., assignor, by mesne assignments, to Rogers Products Co., Inc., a Corporation of New Jersey. Filed Aug. 6, 1925. Serial No. 48,472. 10 Claims. (Cl. 221—47.1.)



1. A grease gun, including a relatively large cylinder and piston adapted to hold a reservoir supply of grease and screw-operated means for forcing the piston to expel service charges of the grease through a suitable outlet conduit, in combination with a powerful small-capacity pump having a cylinder and piston receiving grease from the outlet of the grease gun through a check valve and adapted to expel small service charges at pressures much higher than the reservoir pressure, and means for releasing the high pressure applied to the service charge comprising a manually controlled relief valve independent of the pump piston and a conduit for by-passing grease back to the reservoir.

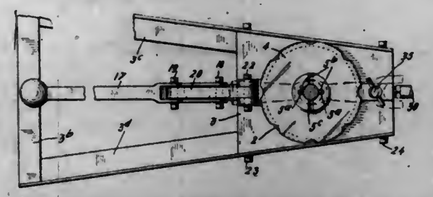
1,750,149. REACTANCE COIL. FRANK J. ZAMBONI, Haynes, Calif., assignor to Nuway Electric Company, Los Angeles, Calif., a Corporation of Delaware. Filed May 22, 1928. Serial No. 279,663. 18 Claims. (Cl. 171—242.)

1. An adjustable reactance coil, comprising a coil winding substantially cylindric in form, a magnetic sheathing surrounding the cylindric outer surface of the coil and extending over its ends, a magnetic core movable lengthwise within the coil, magnetic gap closing plates one



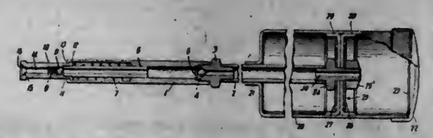
mounted on the end of the exterior sheathing and with which one end of the core is adapted to contact, and the other mounted on the other end of the core and adapted to contact with the other end of the magnetic sheathing.

1,750,150. HIGH-POWER GREASE GUN. HERMAN ALBERTINE, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc., a Corporation of New Jersey. Filed May 12, 1927. Serial No. 190,726. 9 Claims. (Cl. 221—47.1.)



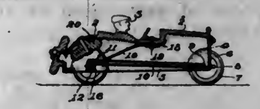
4. A grease pump, including a vertical grease container, an outlet at the lower end thereof, a horizontal pump cylinder in communication with said outlet, a plunger in said cylinder, an outlet of reduced cross-section for said cylinder, and power multiplying means for actuating said plunger including a bent lever and a fulcrum link pivotally connected to each other, to said plunger and to a point above and adjacent the rear end of the pump cylinder, the link being substantially longer than the weight arm of the lever and the whole being proportioned and arranged so that at the end of expulsion stroke of the piston, the handle will be substantially horizontal and there will be a substantially toggle effect on the plunger.

1,750,151. GREASE GUN. HERMAN ALBERTINE, East Rutherford, N. J., assignor, by mesne assignments, to Rogers Products Co. Inc., a Corporation of New Jersey. Filed May 12, 1927. Serial No. 190,727. 2 Claims. (Cl. 221—47.4.)



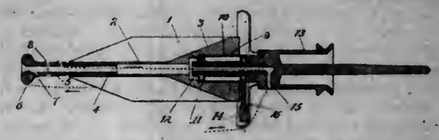
1. A grease gun including a cylindrical grease reservoir having at one end a head formed with a central axial slide bearing and at the other with a detachable closure permitting replenishment of the grease, a piston slidable in said reservoir and providing grease space between the same and the detachable closure, said piston having oppositely directed cup washers, one to prevent outleak of grease under pressure in one direction and the other to prevent inleak of air or dirt upon traction in the opposite direction; a hollow piston rod extending through said piston to said grease space, projecting through said central axial bearing in the head of the reservoir and providing an outlet for the grease from the reservoir, and an outlet non-return valve for said hollow piston, in combination with a high pressure pump secured to and coaxial with said hollow piston rod at the outlet end thereof, said pump including a tubular member having a bore of two diameters, connected by an annular shoulder, the smaller bore constituting a pump cylinder forming an extension in alignment with and receiving grease from said hollow piston rod and the larger bore being located beyond said pump bore to afford a guide surface; the piston of the pump consisting of a tube slidably fitting said smaller bore and provided with a guide fitting said larger bore; and a spring, housed in the annular space between said larger bore and the tubular piston, anchored at one end on the annular shoulder between the smaller bore and the larger bore and at the other end on said piston and substantially fitting the exterior thereof.

1,750,152. ELASTIC-PROPELLED TOY VEHICLE. MAURICE ALLAND, Atlantic City, N. J. Filed Nov. 30, 1928. Serial No. 322,805. 1 Claim. (Cl. 46—47.)



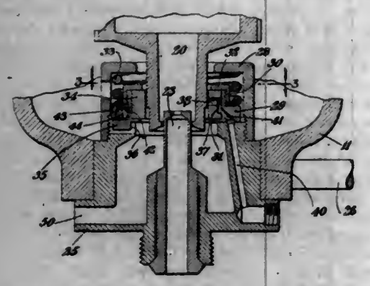
A toy vehicle, comprising a hollow shell comprising top, side, and end walls and open at the bottom, a driving shaft journalled through said side walls, a weight secured to said vehicle substantially above said shaft, wheels fixed to said shaft, a hook carried by the central portion of said shaft and directly in parallelism therewith, a lug carried by said shell, an elastic extending between said lug and said hook, a toothed collar secured to said shaft between said hook and one of said journals, and a resilient member secured at one end to said vehicle and having its free end in engagement with the teeth of said collar to create a vibratory sound as the shaft rotates under the impulse of said elastic when released after previous rotation of said shaft has caused said elastic to be wound thereupon.

1,750,153. MACHINE FOR SPINNING, DOUBLING, TWISTING, AND THE LIKE YARNS, FIBERS, AND THE LIKE. THOMAS EDWIN ANDREW and MELON LANGSTRETH, Rochdale, England, assignors to Dunlop Cotton Mills Limited, London, England, a Corporation of Great Britain. Filed Nov. 18, 1927, Serial No. 234,232, and in Great Britain Nov. 22, 1926. 2 Claims. (Cl. 117—28.)



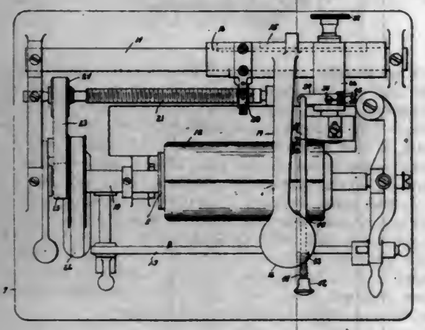
1. An apparatus of the type described which comprises a rotating drive spindle and a non-rotating bobbin removably mounted on the free end of said spindle, said spindle and bobbin having a central yarn passage therethrough and a tubular member removably mounted on the free end of said bobbin and said tubular member having openings through which said yarn may be threaded to create tension as it is drawn therethrough.

1,750,154. CENTRIFUGAL MACHINE. WILMER H. BATH, West Conshohocken, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 5, 1928. Serial No. 323,881. 13 Claims. (Cl. 233—47.)



1. In a centrifugal machine, a rotor, a member mounted for movement and adapted to be moved by the rotor during the oscillations and gyrations thereof, means for frictionally resisting the movement of said member, and means for cushioning the movement of said member.

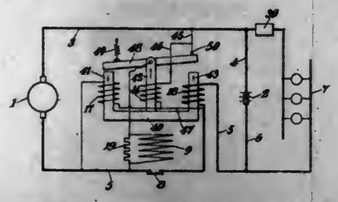
1,750,155. ART OF RESURFACING RECORDS. HURLBUT P. BUSBA, Schenectady, N. Y., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed Mar. 16, 1927. Serial No. 175,849. 21 Claims. (Cl. 82—1.1.)



1. In a record shaving machine, the combination of a record-support; a knife-bar movable into and out of cutting position relative to the record-support; movable means for supporting said knife-bar; and automatically operated means for moving said knife-bar and causing it to assume a predetermined cutting position with relation to a record carried by the record-support in response to movement of the knife-bar supporting means into position preparatory to making a cut.

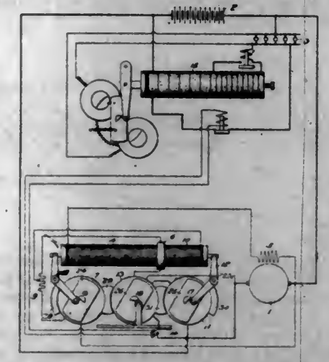
15. In a machine for shaving sound-record tablets, the combination of a tablet-carrying mandrel; a carriage; a guide or way for said carriage on which the carriage is capable of both longitudinal movement and turning movement; a housing carried by the carriage; a knife normally in locked position and carried by said knife-bar; a chip-chute carried by said knife-bar; a resilient gauge member carried on said chip-chute in advance of the knife when the tablet is being shaved to absorb the eccentric and irregular surface that the tablet may have; means operable from the forward part of the machine for unlocking said knife; resilient means for causing automatic adjustment of said knife with relation to the tablet when unlocking of the knife is completed; and automatic means for relocking the knife in position for cutting relation to the tablet.

1,750,156. ELECTRICAL SYSTEM OF DISTRIBUTION. ELI J. BLAKE, Buffalo, N. Y., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 20, 1924. Serial No. 744,684. 9 Claims. (Cl. 171—314.)



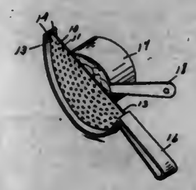
1. An electrical system of distribution having in combination a generator, a storage battery connected to be charged thereby, a switch in circuit between the generator and battery for connecting and disconnecting the two, an electro-responsive coil for controlling the action of said switch, and a continuously polarized relay for controlling the energization of said coil, said relay having a coil connected in series between the generator and battery and in shunt to said switch.

1,750,157. REGULATING APPARATUS. ELI J. BLAKE, Rochester, N. Y., assignor, by mesne assignments, to Simplex Equipment Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 1, 1926. Serial No. 145,692. 11 Claims. (Cl. 171—229.)



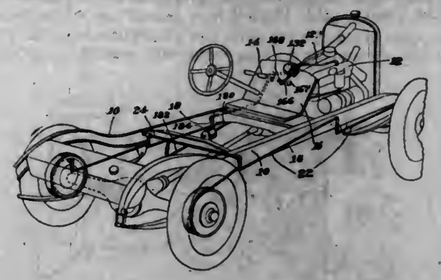
1. In an electrical apparatus, the combination with a compressible variable resistance, of a plurality of electromagnets having energizing coils, armature portions rotatable within said coils and a pair of yoke portions for each electromagnet for completing its magnetic circuit.

1,750,158. STRAINER. THOMAS W. BLAKEMAN, Long Beach, Calif. Filed Sept. 3, 1929. Serial No. 389,935. 4 Claims. (Cl. 53—8.)



1. A device of the character described comprising a reticulated plate provided along one edge with an outstanding flange extending at right angles from each side of said plate, and a handle projecting from one end of said plate.

1,750,159. AUTOMOTIVE CONTROL SYSTEM. FRANK S. BROADHURST, Watertown, Mass. Filed May 8, 1928. Serial No. 276,049. 19 Claims. (Cl. 192—8.)

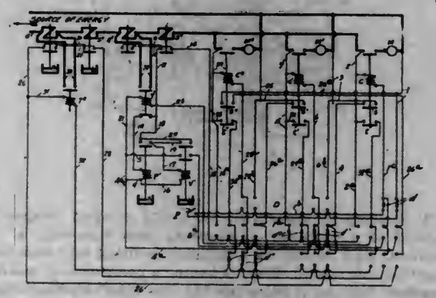


4. An automotive control system comprising a vacuum-operated brake, a vacuum line to the intake manifold of the engine, a controlling valve in said line continuously subjected to the vacuum thereof and impelled thereby toward its brake applying position, and treadle operated means for moving the valve toward its brake releasing position.

1,750,160. COMPOUND OF COBALT CYANATE WITH A TERTIARY BASE. TENNEY L. DAVIS, Norwell, Mass., assignor of one-half to Walter O. Snelling, Allentown, Pa. Filed Apr. 16, 1928. Serial No. 270,575. 4 Claims. (Cl. 260—11.)

1. As a new chemical compound, a reaction product of cobalt cyanate with a tertiary base.

1,750,161. SYSTEM OF MOTOR CONTROL. WILLIAM DEANS, East Orange, N. J., and HENRY J. KAUFMAN, Chicago, Ill., assignors to Sundh Electric Company, Newark, N. J., a Corporation of New Jersey. Filed July 16, 1924. Serial No. 726,247. 20 Claims. (Cl. 172—239.)



1. In a motor system, the combination of a plurality of motors, circuits therefor arranged in parallel one with another, and a control system which comprises means for controlling the circuit of one of said motors and, for the control of the other motor or motors, means responsive to the motor current in the system and operative on a rise in the load thereon to a predetermined value to effect the closing and on a fall in the load thereon to a somewhat higher predetermined value to effect the opening of the circuit of an additional motor.

1,750,162. THERMIT MIXTURE. JOHN H. DEPPELER, Weehawken, N. J. Filed Sept. 8, 1928. Serial No. 304,794. 3 Claims. (Cl. 75—17.)

1. A thermit mixture for alumino-thermic welding including ground slag.

1,750,163. INSECT TRAP. JAMES LAMBERT DISNEY, Jenkintown, Pa. Filed Nov. 26, 1927. Serial No. 235,778. 6 Claims. (Cl. 43—134.)



1. An insect trap including a receptacle having surfaces of uninterrupted transparency and an open end adapted to be positioned against a surface, a handle on the receptacle, a flexible closure for closing the open end of the receptacle, and means operable from the handle for moving the closure.

1,750,164. CIGARETTE EXTINGUISHING AND CRUSHING DEVICE. CHARLES DUCAS, New York, N. Y. Filed June 2, 1927. Serial No. 196,088. 1 Claim. (Cl. 131—5.)



A cigarette extinguisher comprising a tray portion, a fixed cigarette crushing platform mounted thereon, and a movable cigarette extinguishing plate mounted on said tray, said plate having means for permitting oscillatory motion in two planes relative to said tray and platform.

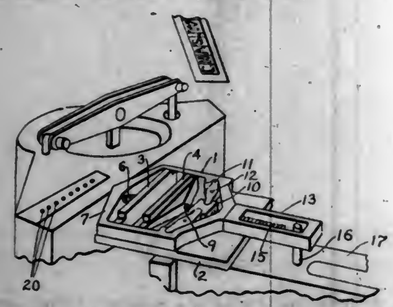
1,750,165. OVERSHOE AND METHOD OF MAKING THE SAME. ERNEST W. DUNBAR, Hudson, Mass., assignor to Cambridge Rubber Company, Cambridge, Mass., a Corporation of Massachusetts. Filed May 5, 1925. Serial No. 28,098. 14 Claims. (Cl. 36—5.)



1. A vulcanized overshoe having a rubber bottom and a waterproof top comprising a vamp and quarters integral with each other, the quarters overlapping portions of the vamp and cooperating therewith to form a bellows top, said top having two substantially parallel folds extending

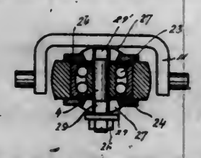
up the front of the shoe, and a plurality of pairs of fastenings, the individual members of which are secured, respectively, between said folds, whereby said members may be fastened to each other across the front of the upper to secure it about the leg of the wearer.

1,750,166. TYPE-CASTING MACHINE. CHARLES W. EDDY, East Providence, R. I. Filed Oct. 13, 1928. Serial No. 312,230. 4 Claims. (Cl. 199—47.)



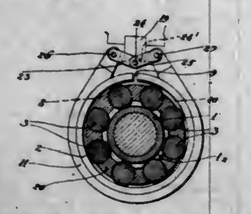
1. In a casting machine, a mold, slidable spring pressed jaws in the mold, operating means for one of the jaws to move same toward the other jaw, a spring pressed slide connected to said operating means, and a pin formed for connecting with the cam device of the machine to operate the slide.

1,750,167. FRICTIONAL GEARING. RICHARD ERBAN, Vienna, Austria. Filed Dec. 30, 1927, Serial No. 243,746, and in Austria Jan. 20, 1927. 9 Claims. (Cl. 74—34.)



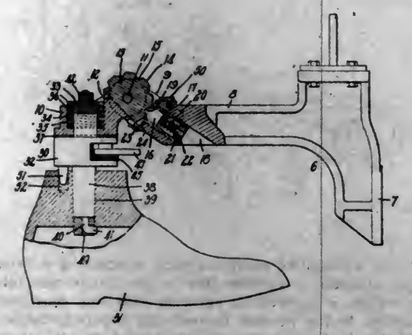
1. In a change speed friction gearing comprising planet rollers arranged between races adapted to vary their relative position, adjusting means for varying the position of each roller, comprising a tiltable frame capable of being rocked about an axis, and means journalling each roller upon said frame to maintain a fixed axis for the rocking movement of the roller, said journalling means including a pivotal bearing for the roller mounted so as to allow a self-adjusting rocking movement about an axis perpendicular to the axis of rotation of the roller, allowing free movement around said axis.

1,750,168. FRICTION GEAR. RICHARD ERBAN, Vienna, Austria. Filed June 7, 1928, Serial No. 283,580, and in Austria June 7, 1927. 7 Claims. (Cl. 74—34.)



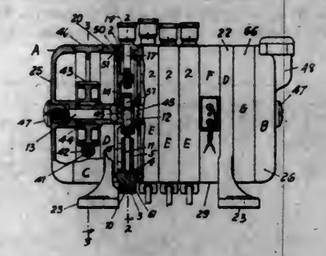
1. In a planetary friction gear, the combination with rolling bodies, of cooperating race-rings forming a path therefor, the ring cooperating with one side of said rolling bodies deviating from circular shape so as to relieve said rolling bodies during each revolution.

1,750,169. LASTING JACK. JOHN H. FLINK, Watertown, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Feb. 27, 1929. Serial No. 343,168. 16 Claims. (Cl. 12—123.)



11. A last holder for a pack having, in combination, a last pin on which a last may be positioned, a locking member eccentrically mounted within said pin and having a radial last gripping portion normally confined within a prolongation of the periphery of the pin, and means to rotate said locking member to cause the last gripping portion thereof to project beyond the periphery of the pin whereby the gripping portion may interlock with the last.

1,750,170. PUMPING APPARATUS. AUGUST FRISCH, St. Gallen, Switzerland. Filed Mar. 18, 1927, Serial No. 176,393, and in Switzerland Apr. 15, 1926. 27 Claims. (Cl. 103—10.)



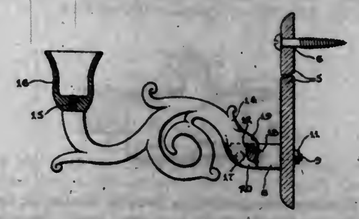
1. A pumping apparatus comprising a liquid receptacle formed of a plurality of elements each including a cylindrical wall, means for detachably securing said elements together, one of said elements having a pump driving means, another having a pump having its inlet leading from said receptacle, and a third having a liquid heating means within said receptacle.

14. A pumping apparatus including a peripheral wall sub-divided into a plurality of annular sections two of said sections constituting end walls, and a centrally disposed shaft carried by said end walls, one of said sections including a pump having a driving element carried by said shaft and another of said sections having a heating element encircling said shaft.

1,750,171. CANDELABRA. ABRAHAM M. GOLDSTONE, Baltimore, Md. Filed May 7, 1929. Serial No. 361,165. 3 Claims. (Cl. 67—25.)

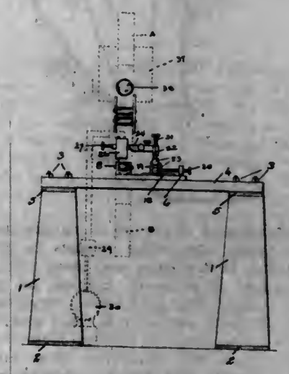
1. In a knock-down candelabrum, the combination of a wall-plate provided with means to engage with a supporting member on a wall, a U-shaped bracket provided with means to secure it in a horizontal position on said wall-

plate, said U-shaped bracket including several pairs of spaced parallel surfaces and intervening bridges, each bridge being of greater height than its front-to-rear extent or thickness, and several candle-socket-arms each having an attaching end formed with a notch, each candle-socket-arm having a rearwardly and downwardly curved supporting lug that forms the upper part of said notch and is



removably seated on and behind the upper part of any one of the bridges on which the candle-socket-arm is supported, said notch having a rear opening of sufficient extent to permit any of said bridges to be passed thereinto and to engage with said supporting lug so as to support any one of said candle-socket-arms detachably in a substantially horizontal position.

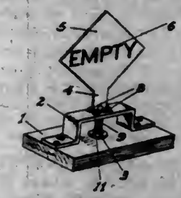
1,750,172. SOUND-RECORDING APPARATUS FOR USE IN EDUCATIONAL MOTION-PICTURE PROGRAMS. EARL H. FOLEY, Seattle, Wash., assignor, by mesne assignments, of ninety-nine one-hundredths to International Acoustigraph Company, a Corporation of Washington. Filed June 12, 1925. Serial No. 36,636. 8 Claims. (Cl. 274—46.)



1. In an apparatus of the type described, the combination of a length of sensitive film, a support for the film, means for moving the film over the support, a device for recording sound records on the film, and a support for said device, said support having a base, a block adjustably mounted on the base for movement toward and away from the film support, a head mounted for vertical adjustment on the block, an arm carried by the head and overhanging the support for the film, said arm provided with a cut-away portion for receiving therein the sound recording device.

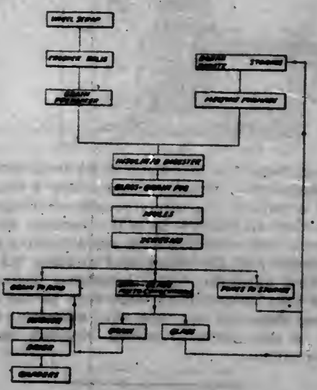
1,750,173. REVERSIBLE CAR SIGN. EDWARD W. HAVELOCK and JAMES W. COCHRANE, Santa Rosa, Calif., assignors to Natalina C. Havelock and Louise M. Cochrane, Santa Rosa, Calif. Filed Jan. 21, 1929. Serial No. 333,884. 2 Claims. (Cl. 40—68.)

1. A reversible car sign including a vertically disposed flat sign-plate, a depending extension formed with the plate at the bottom thereof, a stem secured to and depending from said extension, a horizontal bracket plate through which said stem turnably projects; the bottom of the extension resting on the bracket plate, lugs upstanding



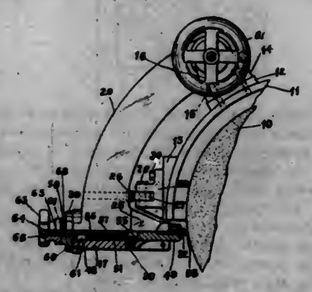
from the bracket plate on both sides of said extension to prevent rotation thereof, and a spring about the stem below the bracket to hold said extension in yieldable engagement with the bracket.

1,750,174. RECOVERY OF BONDED MATERIALS. EARL LESSON HAUMAN, Hamburg, N. Y., assignor to The Exolon Company, Blasdell, N. Y., a Corporation of Massachusetts. Filed June 29, 1926. Serial No. 119,334. 14 Claims. (Cl. 51—278.)



1. In a process of reclaiming dispersed material from a vitrified bonded mass consisting in comminuting the mass, introducing a molten solvent, maintaining a predetermined temperature above the fusion point of the solvent, milling the resultant and separating.

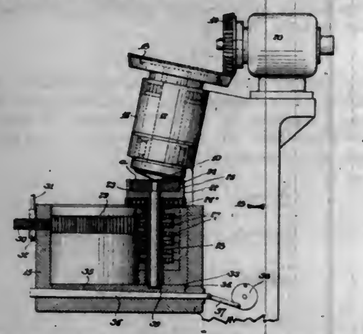
1,750,175. TRUING DEVICE. HAROLD W. HOLMES, Detroit, Mich., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 14, 1926. Serial No. 129,184. 9 Claims. (Cl. 125—11.)



1. A grinding machine comprising a grinding wheel, a guard around the wheel, a truing mechanism mounted

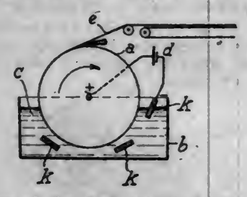
upon the guard including a cylindrical support, an arm slidably mounted on and arranged to turn about the axis of the support, a dresser adjustably carried upon the opposite end of the arm and arranged to be pressed against the wheel by the action of gravity, means for limiting the movement of the dresser toward the wheel under the urge of gravity, means for adjusting the position of the dresser relative to said arm towards and from the wheel, and means for causing the dresser to move across the periphery of the wheel along a line substantially parallel to the axis of the wheel.

1,750,176. METHOD AND APPARATUS FOR ROLLING TAPERED WHEEL DISKS. JAMES W. HUGHES, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1926. Serial No. 145,935. 17 Claims. (Cl. 80—16.)



1. The method of rolling metal disks from substantially square blanks which consists in subjecting a blank to the action of a pair of oppositely rotating rolling elements acting, at a given instant, upon the opposite sides of the blank along a line extending from approximately the center to the periphery of the blank, and rotating the blank in one direction until the entire peripheral portion of the blank has been subjected at least once to the action of such rolling elements, and thereafter subjecting the blank similarly to the action of rolling elements rotating in reverse directions.

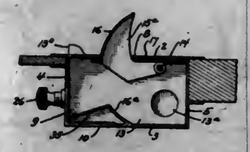
1,750,177. PROCESS FOR THE IMMEDIATE PRODUCTION OF MECHANICALLY-UNWORKED PURE RUBBER SHEETS FROM LATEX. PAUL KLEIN, Budapest, Hungary, assignor, by mesne assignments, to American Anode, Inc., a Corporation of Delaware. Filed Jan. 26, 1924, Serial No. 688,777, and in Hungary Oct. 11, 1923. Renewed Oct. 6, 1927. 23 Claims. (Cl. 18—50.)



3. A process of the kind described which consists in adding to the latex organic dyes, the ultramicrons of which exhibit a negative charge in the state of hydrosol and extracting by centrifuging from the latex the excess of dye not having been adsorbed by the rubber particles, and thereupon precipitating the rubber from said purified latex by electrophoresis upon an endless supporting surface having anodic properties and continually travelling through the latex, and detaching the rubber sheet from that part of said supporting surface.

5. The process for the production of mechanically unworked pure rubber directly from latex which comprises freeing latex from impurities by centrifuging in centrifugal apparatus and thereafter precipitating the rubber from said purified latex by electrophoresis upon a supporting surface having anodic properties.

1,750,178. VENTILATING DEVICE. DONALD K. MACLEOD, San Francisco, Calif. Filed Mar. 18, 1929. Serial No. 347,760. 6 Claims. (Cl. 98—13.)



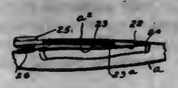
1. A ventilator comprising a housing having an opening formed in one side thereof, a shutter flush with the surface of the housing and adapted to open and close the opening, an air deflector plate adapted to be extended through the opening or retracted to a position within the housing, and manually operated means for adjusting the position of the shutter and the deflector.

1,750,179. OVERSHOE. WARREN MACPHERSON, Cambridge, and ERNEST W. DUNBAR, Hudson, Mass., assignors to Cambridge Rubber Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 24, 1925. Serial No. 17,926. 17 Claims. (Cl. 36—5.)



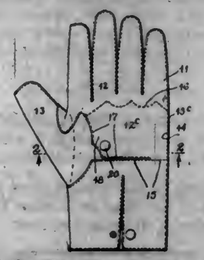
1. That improvement in the art of manufacturing overshoes of the arctic type, which consists in providing a waterproof fabric having outer and inner plies of fabric united throughout their areas, cutting the vamp and quarters of an upper from said fabric, stitching together the edges of said parts necessary to bring said upper into a closed form preparatory to lasting, subsequently placing said upper on a last, assembling other parts of the shoe on the last with said upper, and then vulcanizing the shoe.

1,750,180. POCKET FOR GLOVES AND THE LIKE. ISAAC MARINSKY, Providence, R. I. Filed Mar. 10, 1928. Serial No. 260,581. 3 Claims. (Cl. 2—160.)



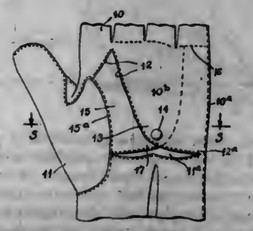
1. A glove, one part of which is fashioned to form a flap integral with the glove part along one side edge only thereof, a member secured to said glove part to close the opening formed therein by the removal of said flap, and a pocket formed in the wall structure of the flap outwardly of its attached side edge and accessible when the flap is in an extended position with reference to the glove structure.

1,750,181. GLOVE. ISAAC MARINSKY, Providence, R. I. Filed Mar. 23, 1928. Serial No. 263,087. 9 Claims. (Cl. 2—160.)



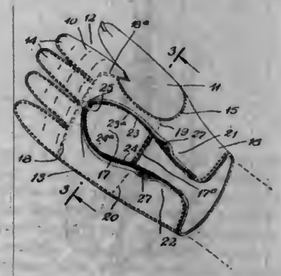
1. A glove of the class described formed from a main body part and a thumb part, said thumb part having an integral palm portion overlapping a predetermined area of the palm portion of said body part, and said overlapped palm portions being stitched together to form a pocket therebetween opening outwardly through the glove at the unstitched portion thereof.

1,750,182. GLOVE. ISAAC MARINSKY, Providence, R. I. Filed Mar. 31, 1928. Serial No. 266,142. 3 Claims. (Cl. 2—160.)



1. A glove of the class described fashioned from glove forming parts, one of which constitutes the main body part and having a thumb opening at one side and being stitched at the opposite side in forming said part, and the other a thumb forming part arranged in the thumb opening of the first named part and stitched thereto, both of said parts having integral palm portions, the palm portion of the thumb part extending to the stitched side edge of the main body part and being secured thereto by side stitchings and by other stitchings arranged at the base of the finger portions of the first named part to form within and between said palm portions a pocket opening outwardly through the palm portion of the glove, and means cooperating with said palm portions for forming a comparatively large open end to said pocket.

1,750,183. GLOVE. ISAAC MARINSKY, Providence, R. I. Filed Mar. 20, 1929. Serial No. 348,412. 8 Claims. (Cl. 2—160.)



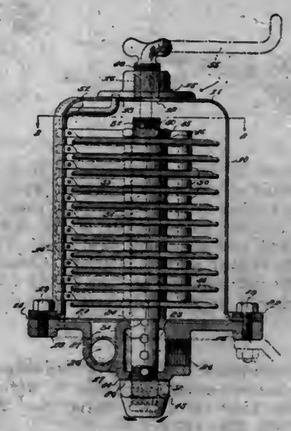
1. A glove of the class described, the palm and wrist portion of which is severed centrally and longitudinally from the base of the finger portion of the glove outwardly through the wrist portion thereof to form independent side portions, closure means for drawing said side portions together to secure the glove firmly upon the hand and wrist of the wearer, and a pocket formed in the palm portion of the glove structure, access to which is controlled by said closure means.

1,750,184. FIRE EXTINGUISHER. FRED THOMAS MATTHEWS, Brisbane, Australia. Filed May 8, 1925, Serial No. 28,919, and in Australia June 3, 1924. 1 Claim. (Cl. 169—30.)



A fire extinguisher of the character described, including a main closed receptacle having an opening in the top thereof, a cradle having flanges on the upper end for engagement about the edges of the opening for suspending the cradle within the receptacle, a compressed gas containing bulb on the cradle, a bulb piercing element also mounted in the cradle and provided with passages, a threaded cap adjustably engaged upon the opening, and a coiled expansion spring arranged between the bulb and the bulb piercing element and acting to hold the flanges of the cradle against the edges of the opening and the bulb against the cap, substantially as and for the purposes set forth.

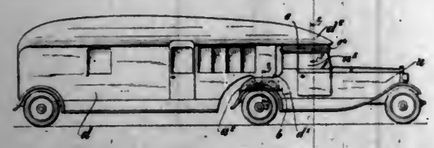
1,750,185. FILTERING DEVICE. CHARLES A. MCGEHAN, Morristown, and PATRICK X. MCGEEHAN, Hazleton, Pa. Filed Aug. 22, 1927. Serial No. 214,754. 7 Claims. (Cl. 210—178.)



1. A filter comprising a shell having a substantially closed end and an outwardly flanged open end; a tapped

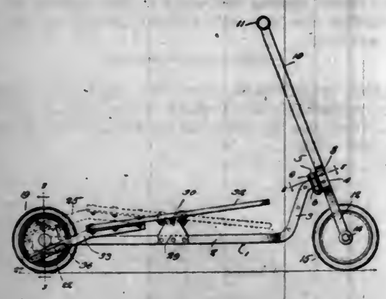
casting secured to said closed end; a casting provided with inlet and outlet openings and an opening in alignment with the tap in said first mentioned casting secured to said flange; a perforated terminally threaded pipe disposed within said shell in alignment with the said aligned tap and opening and extending through and inwardly of said second mentioned casting; a plurality of alternately arranged filter elements and spacers surrounding said pipe and engaging the inner face of said second mentioned casting; a cap nut threaded on the outer end of said pipe and resting against the outer face of said second mentioned casting; and a lock nut engaging the inner end of said pipe adapted to firmly hold said filter elements and spacers in assembled relation.

1,750,186. FLEXIBLE CLOSURE FOR TRACTOR-TRAILER VEHICLES. FRANK C. MCMANUS, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 12, 1929. Serial No. 331,965. 3 Claims. (Cl. 296—1.)



8. In a tractor-trailer vehicle construction, a driver's cab on the tractor, an overhanging top portion on the trailer, a flexible closure between the cab and the overhanging top, top and bottom frames carrying the closure, means to mount the bottom frame on the cab, and means to urge the top frame yieldingly against the overhanging top with provision for movement relative thereto.

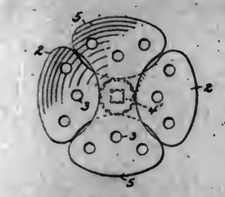
1,750,187. POWER COASTER. JEROME J. MILLER and WILLIAM PLATT, Chadron, Nebr. Filed Jan. 28, 1929. Serial No. 335,654. 2 Claims. (Cl. 208—35.)



1. In a device of the class described, a frame, a ground wheel journaled on the frame, a ratchet wheel connected to the ground wheel to turn therewith, a pawl wheel supported for rotation independently of the ratchet wheel, a pawl movably mounted on the pawl wheel and cooperating with the ratchet wheel, a platform tiltably mounted on the frame and including an arm having a slot, and a projection carried by the pawl wheel and movable in the slot.

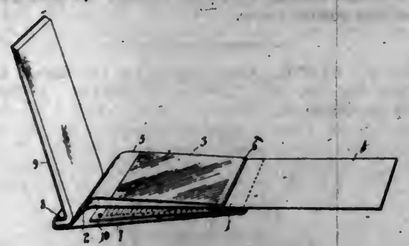
1,750,188. SUPPORT. WILLIAM F. MUMBERG, Chicago, Ill., assignor of one-half to Albert A. Merts, Decatur, Ill. Filed July 11, 1928. Serial No. 291,947. 4 Claims. (Cl. 128—127.)

1. A support of the class described comprising a tubular stem, a pair of wings connected with the upper end thereof, a shaft passing through the stem, a pair of wings carried by the upper end of the shaft and means



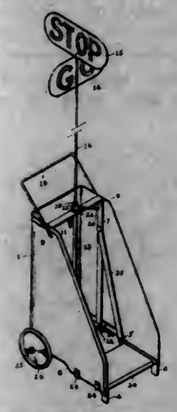
for turning the shaft in the stem to place the wings thereof over the wings of the stem or to place the wings on the shaft at rightangles to those on the stem.

1,750,189. MANIFOLDING BOOK. ERNEST E. PALMER, Toronto, Ontario, Canada, assignor to Toronto Type Foundry Company Limited, Toronto, Ontario, Canada. Filed Dec. 21, 1928. Serial No. 327,573. 1 Claim. (Cl. 282—9.)



A manifolding book comprising a back, a plurality of manifolding units, each unit comprising a carbon sheet and a detachable duplicate sheet bound to the back and an original sheet united to the duplicate sheet along one edge with its opposite edge free and folded over the carbon sheet, and a stop sheet united to the back and foldable over the used carbon sheets and between the same and the next duplicate sheet and protecting the record on the used carbon sheets against mutilation while making subsequent entries.

1,750,190. COMBINATION TRAFFIC SIGNAL AND BOOTH THEREFOR. THOMAS R. PAVELSKY, Rochester, N. Y., assignor of one-fourth to James Collins, one-fourth to Frank J. Binsack, and one-fourth to Elmer W. O'Brien, Rochester, N. Y. Filed Dec. 13, 1928. Serial No. 325,817. 4 Claims. (Cl. 116—63.)

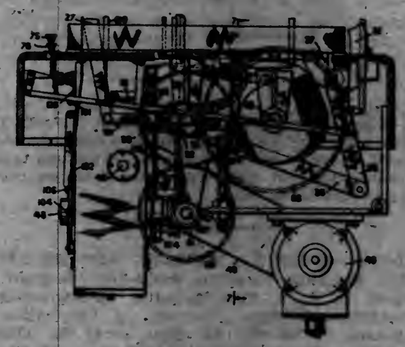


1. In a booth, the combination of a horisontal and an upright frame, a booth covering attached thereto,

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cross bars in said upright frame at the top and bottom thereof, a sleeve supported between said cross bars, a rod telescoping in said sleeve adapted to support a stop and go signal, means for fastening the rod to the sleeve so that it will turn with the sleeve, a handle on the sleeve by which it can be turned back and forth by a person standing in the booth to change the stop and go signal.

1,750,191. PERFORATED-CARD-CONTROLLED MACHINE. JOHN ROYDEN PEIRCE, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a Corporation of New York. Filed July 7, 1927. Serial No. 203,890. 14 Claims. (Cl. 101—93.)



1. In a perforated-record-controlled machine, means for analyzing records, means controlled by said analyzing means for controlling the subsequent operation of the machine, means for feeding records to said analyzing means and means for presenting a record for controlling the operation of said analyzing means.

1,750,192. TAG. OVERTON W. PENDERGAST, Terre Haute, Ind. Filed July 20, 1928. Serial No. 294,222. 6 Claims. (Cl. 40—2.)



1. A service tag comprising a tag body portion, and an identification device embodying an identification portion folded over one edge portion of the tag body portion and having large identification numbers printed in duplicate upon one face thereof for display at opposite faces of the tag body portion, and a separable check portion having printed thereon with small type, an identification number corresponding to the identification numbers on the identification portion.

1,750,193. FISH-WEIGHING SCALE FOR FISHING RODS. TERRY T. REYNOLDS, North Uvalde, Tex. Filed June 8, 1928. Serial No. 283,959. 1 Claim. (Cl. 265—63.)



A fishing rod handle construction for containing indicating means, a tube provided with a slot extending longitudinally, a flange extending from the tube at the perimeter of said opening, a pane of transparent material adapted to cover said opening, and a sleeve of suitable hand grip material arranged on said tube and provided with a longitudinal opening therein for snugly receiving the flange of said tube.

1,750,194. DENTAL MIRROR. CARL G. A. RYDMAN, Oakland, Calif. Filed Mar. 31, 1928. Serial No. 266,219. 1 Claim. (Cl. 128—12.)

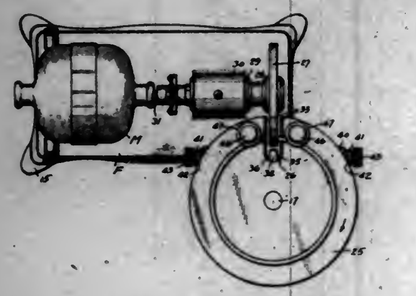


In combination, a tubular handle, a dental mirror supported at an angle thereto, a battery in the handle, a light in one end of the handle so as to reflect on the mirror and being electrically connected to the battery and the tube respectively, a cap threaded on the other end of the handle having a switch member movable therein for electrically connecting the tube and the battery, a ball on said switch member and spring fingers mounted in the cap in engagement with the ball for holding the switch member in active or inactive position.

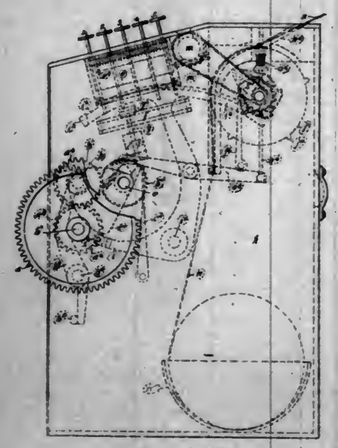
1,750,195. PISTON-RING-FITTING MACHINE. GRANISON M. SANDERS, Ontario, Calif., assignor of one-half to Maude L. Luce, Ontario, Calif. Filed Sept. 15, 1926. Serial No. 135,686. 12 Claims. (Cl. 51—124.)

1. A piston ring fitting machine comprising grinding means, ring supporting means manually movable in one

direction to cause one end of a ring thereon to have grinding engagement with the grinding means, yieldable means for urging the ring supporting means in another direction to maintain said end of the ring out of engagement with the grinding means, and adjustable means for determining the degree of manual movement of the supporting means in the first mentioned direction whereby the extent to which the ring end is ground can be predetermined.

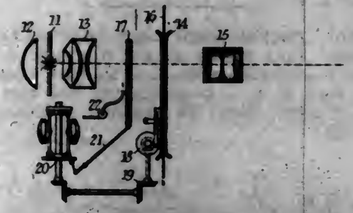


1,750,196. TICKET-DELIVERY MECHANISM. LOUIS SCHER, Cleveland, Ohio. Filed June 25, 1927. Serial No. 201,525. 20 Claims. (Cl. 164—42.)



1. In ticket issuing mechanism, the combination with manually-operable movement limiting means for the ticket issuing mechanism, of an associated master-key controlled by said limiting means and adapted to start and stop the actuating means, ticket issuing and severing mechanism, and interposed actuating means for said mechanism, whereby ticket strips of selected lengths may be successively delivered.

1,750,197. HEAT-ELIMINATION SCREEN FOR PROJECTOR SYSTEMS. ARTHUR L. SCHOEN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 8, 1926. Serial No. 153,314. 6 Claims. (Cl. 88—17.)

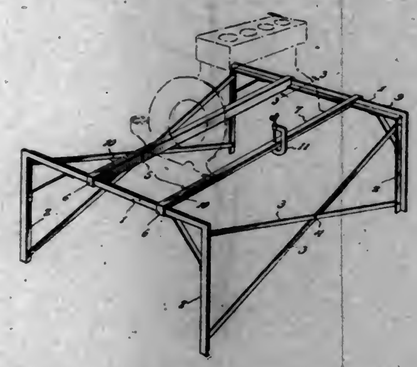


1. A screen for the elimination of heat rays and comprising a sheet of clear mica having a thickness of the order of .01 inches and a film of gold thereon and capable of transmitting heat rays to the order of ten per cent of heat rays incident thereon.

1,750,198. CLEANING, WETTING, AND EMULSIFYING. WALTHER SCHRAUTH, Berlin-Britz, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed May 25, 1926, Serial No. 111,666, and in Germany May 30, 1923. 9 Claims. (Cl. 87—5.)

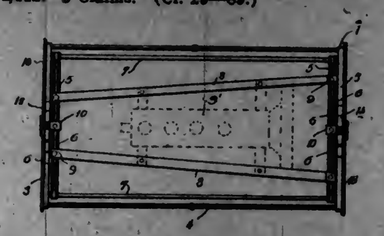
1. The process of preparing aqueous emulsions of organic compounds practically insoluble in water characterised by an addition of an aromatic sulfonic acid substituted by at least one residue of an aliphatic hydrocarbon containing more than 4 carbon atoms to an aqueous medium containing the aforesaid organic compounds.

1,750,199. MOTOR STAND. HILBERT C. SPAHN, Kewanee, Ill. Filed Apr. 10, 1928. Serial No. 269,005. 2 Claims. (Cl. 29—89.)



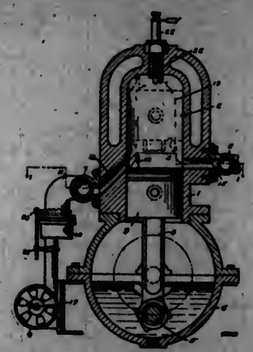
1. A stand of the class described comprising end frames including horisontal bars, legs formed integral with the bars, brace bars connecting the legs, supporting bars having slots formed in their ends for slidably engaging the horisontal bars, said supporting bars and brace bars being detachably connected with the frame.

1,750,200. MOTOR-SUPPORTING STAND. HILBERT C. SPAHN, Kewanee, Ill. Filed Oct. 23, 1928. Serial No. 314,441. 5 Claims. (Cl. 29—89.)



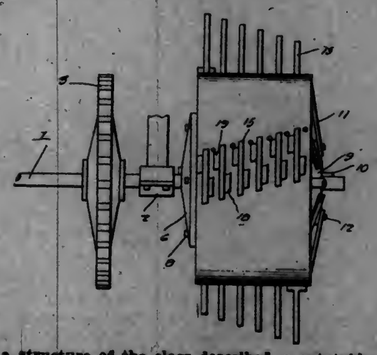
1. A stand of the class described, comprising end frames, blocks adjustably mounted thereon, bearings carried by the blocks, disks rotatably mounted in the bearings, a cradle, and means carried by the cradle for rotatably engaging the disks.

1,750,201. TWO-CYCLE ENGINE. GARDNER A. B. SPENCER and HARRY B. CORNISH, Alameda, Calif. Filed July 23, 1927. Serial No. 207,959. 1 Claim. (Cl. 123—59.)



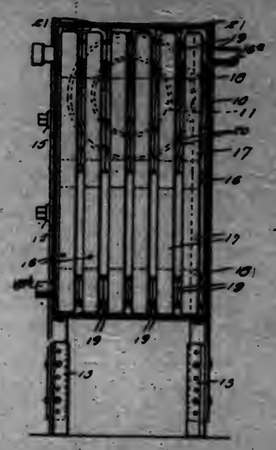
An internal two-cycle combustion engine having a cylinder with a closed top, a piston mounted in said cylinder, said cylinder having an intake and an exhaust port disposed in a position to be uncovered by said piston only when said piston reaches its lowermost position, means for delivering a combustible mixture under pressure to said intake, and a single valve for the intake and a single valve for the outlet port for controlling the flow of gases therethrough.

1,750,202. LAND BREAKER AND PLOW. AUBREY C. STEEVES, Hillsboro, New Brunswick, Canada. Filed May 18, 1928. Serial No. 278,761. 1 Claim. (Cl. 97—215.)



In a structure of the class described, a rotatable drum, a plurality of rectangular shaped earth engaging blades extending radially from the drum, a pair of threaded bolts formed on the inner edge of each blade adjacent the respective sides thereof, for disposition through openings formed in the drum, a lug arranged on the inner face of the periphery of the drum beneath the opening and being formed with an opening through which the threaded end of the respective bolt projects, the inner face of each lug being flat, and a nut threaded on the inner end of each bolt engaging with the flat face of the respective lug, the inner edge of the blade being curved, and laterally extending flanges formed on the opposite sides of the inner edge portion of each blade between said bolts, the inner faces of the flanges being curved to conform to the contour of the outer peripheral face of the drum.

1,750,203. ECONOMIZER FOR USE WITH FURNACES. JOSEPH G. STROCK, Pittsburgh, Pa. Filed Aug. 16, 1928. Serial No. 300,109. 3 Claims. (Cl. 257—227.)



1. In an economizer, a casing, a sectional radiator within the casing, each section of the radiator having upon its side faces and at its upper end a rib structure, the rib structures of the sections combining in the assembled relation of the sections to form baffles between adjacent sections of the radiator, the ribs at the upper ends of the sections engaging the upper wall of the casing, the ribs of the outer faces of the outermost sections engaging opposite end walls thereof.

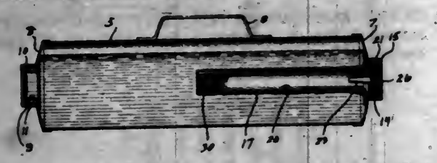
1,750,204. PROTECTING CONTAINER FOR BUTTER TUBS OR THE LIKE. ROBERT G. WICHNER, Coloma, Wis. Filed Mar. 1, 1928. Serial No. 258,320. 1 Claim. (Cl. 229—21.)



An insulating and cushioning protective container for a tub of circular cross-section, formed of a sheet of material

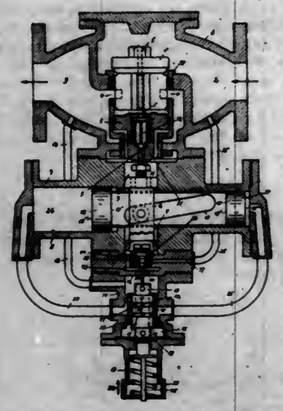
having spaced layers and a corrugated member interposed and forming air pockets between the said layers; said sheet of material being adapted to snugly surround a tub and have its ends connected together, and said sheet of material having top and bottom cover portions adapted to be opposed to the top and bottom, respectively, of a tub and flanged against the side of the sheet, whereby the sheet is adapted to be secured of itself on a tub without the assistance of extraneous means and when the sheet is so secured the tub is completely closed, insulated and protected.

1,750,205. RESERVE DISPENSING CONTAINER. OSCAR WILLUMSEN, Ocean Park, Calif. Filed Aug. 20, 1928. Serial No. 300,810. 7 Claims. (Cl. 221—23.)



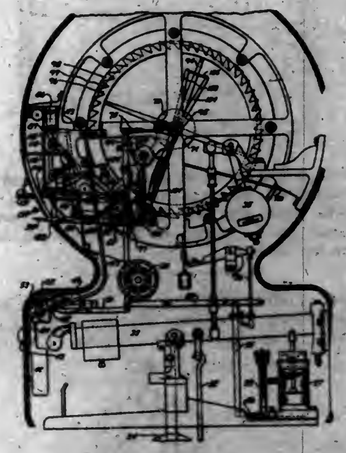
1. A dispensing container comprising a receptacle including a body portion having end walls, a tubular threaded extension provided at each end wall with one tubular extension providing an outlet opening for the receptacle, a threaded closure cap for the outlet opening, a pocket forming member supported in the receptacle body portion and opening thru the tubular threaded portion of the opposite end wall, a spout slidably fitting in the pocket and having a threaded end portion for threaded connection with the extension forming the outlet opening for the receptacle, and a retaining cap for threaded connection with the extension provided at the outer end of the pocket forming member for removably retaining the spout within the pocket.

1,750,206. REDUCING VALVE. EDMUND WINARSKY, Brunswick, Germany. Filed May 15, 1929, Serial No. 363,285, and in Germany Oct. 31, 1927. 9 Claims. (Cl. 50—11.)



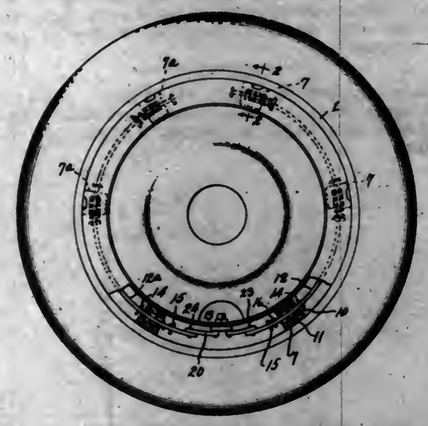
1. A pressure reducing valve, comprising a valve cone, a cylindrical chamber, a driving slide capable of moving longitudinally in the cylindrical chamber, pipes for connecting the ends of the cylindrical chamber with the high-pressure and low pressure sides of the pressure-reducing valve, a controlling device adapted to open and close the said pipes, means for adjusting the controlling device to a desired pressure, and an inclined guiding surface on the driving slide adapted to control the ascent and descent of the valve cone as the driving slide moves longitudinally without allowing spontaneous movements of the valve cone to be transmitted to the driving slide.

1,750,207. RECORDING SCALE. GEORGE RUE WOOD, Dayton, Ohio, assignor, by mesne assignments, to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Mar. 16, 1922. Serial No. 544,174. 40 Claims. (Cl. 265—5.)



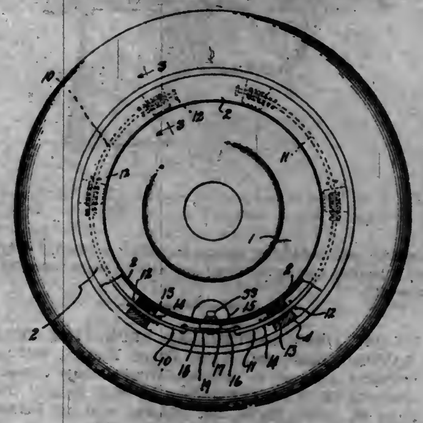
1. In a weighing scale, in combination, means for automatically counter-balancing the applied load, a capacity weight device for increasing the counter-balance effect, recording devices for recording applied loads, and means for controlling said recording devices, said means being settable in set positions corresponding to applied loads and having a portion thereof settable under the control of both said automatic counter-balancing means and said capacity weight device, said portion being capable of positioning a related portion of said recording devices for recordation of applied loads.

1,750,208. DEMOUNTABLE RIM FOR AUTOMOBILE WHEELS. EDWARD L. ACKERMAN and ALOIS J. ZWIERZINA, Detroit, Mich. Filed Jan. 18, 1928. Serial No. 247,592. 8 Claims. (Cl. 70—90.)



1. A device for locking a wheel rim to a felloe with which is provided cooperating parts for securing or releasing the rim relative to the felloe, comprising a means enclosed within the felloe, when the rim is in position, for operating the said cooperating parts consisting of an actuator element extending radially through the inner face of the felloe and by rotation of which in one direction or the other the said parts are actuated to respectively secure or release the rim, an operating device for the said actuator consisting of a hollow element rotatably mounted in the inner end of the actuator, and a lock device in the said hollow operator rotatable on the same axis and adapted to lock the operator to the actuator or release the same therefrom.

1,750,209. DEMOUNTABLE RIM. EDWARD L. ACKERMAN and ALOIS J. ZWIERZINA, Detroit, Mich. Filed Jan. 18, 1928. Serial No. 247,593. 2 Claims. (Cl. 301—27.)



1. In a device of the character described, a rotatable member, a pair of links pivotally connected to the rotatable member on opposite sides of the center of rotation, a pair of rods pivotally connected to the links and adapted to be drawn toward the rotatable member upon rotation of the member in one direction and adapted to be moved away from the rotatable member upon rotation of the member in the opposite direction, a series of lugs carried by each rod and a lock carried by the rotatable member having a bolt adapted to be moved between the ends of the links to prevent rotation of the rotatable member.

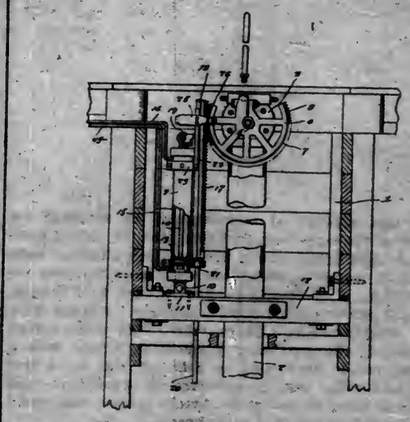
1,750,210. CORN-PULP EXTRACTOR. MARY AUSTIN, Rosemont, Pa. Filed Dec. 22, 1927. Serial No. 241,908. 4 Claims. (Cl. 146—4.)



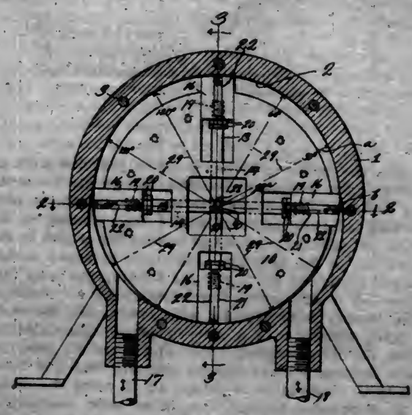
1. A corn pulp remover comprising a tubular body having an opening formed in its annular wall, and means extending across the opening adapted to express pulp from kernels of an ear of corn when an ear having cut kernels is moved across the same in pressing engagement therewith.

1,750,211. HYDRAULIC-CONTROL HEAD CLOSURE. SAMUEL S. BRADSHAW and CHARLES ALBERT MARTINDALE, Seminole, Okla. Filed Apr. 14, 1928. Serial No. 270,046. 3 Claims. (Cl. 166—15.)

1. The combination with the rotary valve in a well casing head; of means for actuating said valve, said means comprising a gear carried by the stem of said valve for rotation therewith, a toothed rack bar having meshing engagement with said gear, fluid pressure operated means for actuating the sliding toothed rack bar, said last mentioned means including a cylinder, a piston rod extending through one end of the cylinder, a piston secured on the inner end of the piston rod for reciprocatory movement in the cylinder, an operative connection between the outer end of the piston rod and the sliding toothed rack bar, and fluid pressure supply pipes communicating with the respective ends of the cylinder to control the operation of the piston therein.

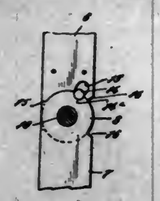


1,750,212. ROTARY PUMP. EMMETT CASKEY, Council Bluffs, Iowa. Filed Aug. 11, 1925, Serial No. 49,504. Renewed June 27, 1929. 2 Claims. (Cl. 103—138.)



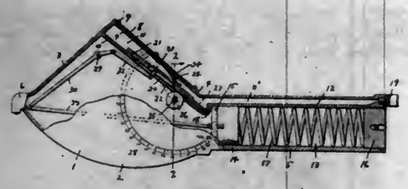
1. A rotary pump comprising an annular casing having a round chamber therein and its inner periphery transversely straight, a rotor eccentrically mounted in said casing, plates secured to opposite sides of the rotor and having drive shafts extending through the casing, abutments slidably mounted in the recesses in the rotor and substantially rectangularly shaped, L-shaped packing members disposed in channels of the abutments and having arms overlapped, springs carried by the abutments and engaging one of the overlapping arms and normally forcing said packing members outwardly, parallel slidable connecting rods connecting the abutments and detachably connected thereto, the connecting rods of the abutments intersecting each other.

1,750,213. ARTIFICIAL-LIMB CONNECTER. EDWARD COLLINS, Tacoma, Wash. Filed Dec. 29, 1928. Serial No. 329,128. 1 Claim. (Cl. 287—99.)



As a new product of manufacture, an artificial leg connecter of the class described comprising a pair of complemental rigid metal straps having their adjacent ends formed with segmental flanges disposed in overlapping rotating contact, a pivot bolt passing through said flanges, one of said sections being formed adjacent its flange with a notch functioning as a pocket, a coupling roller seated in said notch, the remaining flange being formed with a peripheral notch functioning as a keeper seat for a section of said roller under predetermined conditions, and spacing and cover plates carried by one section and covering said pocket, roller, and keeper seat.

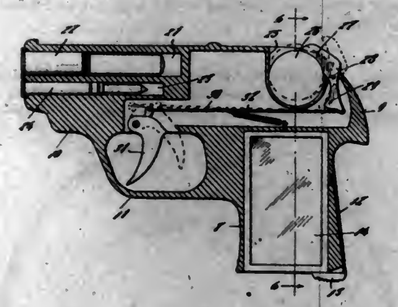
1,750,214. TIRE-INFLATING DEVICE. GARVIN HOWARD DAVIS, Healdton, Okla. Filed Dec. 28, 1927. Serial No. 243,064. 2 Claims. (Cl. 50—8.)



1. In a tire inflating device, a casing provided with an air outlet neck, a handle extending rearwardly from the casing and providing a cylinder that communicates with the casing, a piston operable within the cylinder, an expansible coil spring for normally holding the piston in the forward end of the cylinder, a partition arranged within the upper portion of the casing for dividing the same into an upper air passage and a lower compressed air chamber, said air passage being provided with an air inlet, the partition being formed with a slot to afford communication between the air passage and the compressed air chamber, a valve forming a plate slidable over the slot and being normally so disposed as to permit air to enter the casing and be discharged through the outlet neck, cooperating means between the valve and the piston for moving the valve to completely cover the slot when a predetermined pressure is present in the casing, said last mentioned means comprising a rockable lever mounted in the casing, one end thereof being operatively connected to the valve, and a rod operatively connecting the other end of the lever with the piston.

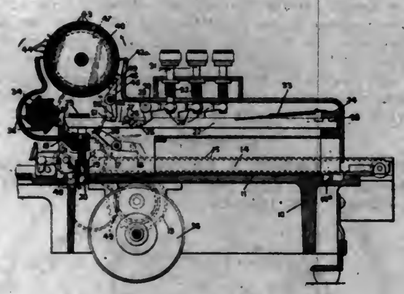
1,750,215. VANITY CASE. EARL PATRICK DWYER, El Paso, Tex. Filed Feb. 5, 1929. Serial No. 337,657. 3 Claims. (Cl. 206—38.)

1. In a vanity case of the class described, a container fashioned to represent and provide an artificial revolver and embodying a hollow article containing hand grip, article containing barrels, and an intervening article containing body portion, said body portion being further designed to provide a coin pocket and retaining and ejecting means



therefor, said retaining means including a pivoted trigger and a flexible spring retained operating element associated therewith.

1,750,216. DRUM-CONTROLLED REPEATING PERFORATOR. BERNHARD KARL FRITZ EWALD, Villingen, Germany, assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed July 30, 1927, Serial No. 209,444, and in Germany Oct. 14, 1926. 13 Claims. (Cl. 164—112.)

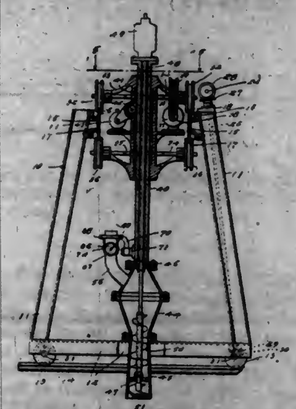


1. In a perforating machine, a plurality of punches, means for feeding records with respect to said punches, manual means for controlling the operation of the punches and means provided with insertible adjustable selecting devices for automatically controlling operation of the punches for producing perforations in a record.

1,750,217. MOLDING APPARATUS. BRADEN L. ELWELL, Granite City, Ill. Filed Apr. 2, 1929. Serial No. 351,957. 17 Claims. (Cl. 22—40.)

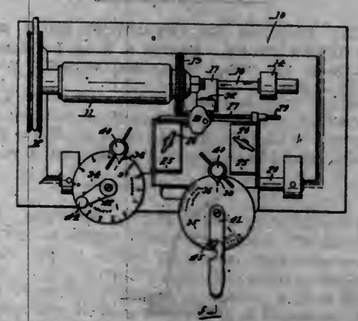
9. In molding apparatus of the character described, a longitudinally shiftable carriage, a sub-carriage supported thereby and shiftable upon the carriage transversely thereof, a vertically shiftable ram carried by the sub-carriage, a hopper supported from the ram, a discharge nozzle for the hopper, a rotatable packing element disposed at the discharge end of the nozzle, a storage hopper pivoted upon

the carriage, a discharge worm associated therewith and extended through the hopper of the ram, a support for the



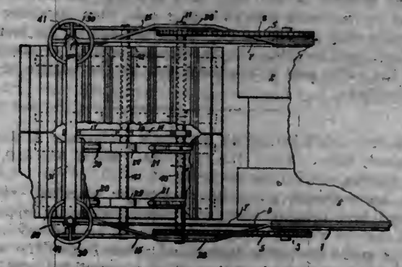
worm fixed to the storage hopper and pivoted to the ram, and an extensible trough for said worm connecting the storage hopper and the hopper of the ram.

1,750,218. KEY-CUTTING MACHINE. MORRIS FALK, Fitchburg, Mass. Filed Apr. 18, 1927. Serial No. 184,643. 11 Claims. (Cl. 90—132.)



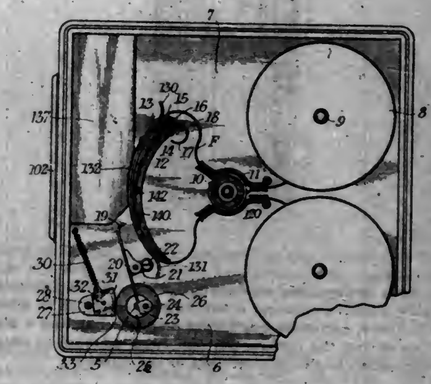
1. In a key cutting machine, the combination with a rotary cutter, of a shaft, a frame mounted to swing on said shaft parallel to the axis of the rotary cutter from horizontal to substantially vertical position, means for feeding the frame along said shaft, a rack carried by said frame perpendicular to the shaft, a carriage mounted on the frame and slidable on the rack, and means for moving the carriage along the rack toward and from the cutter.

1,750,219. ROTARY PLOW. LEON FONNESBECK, Logan, Utah. Filed Mar. 21, 1928. Serial No. 263,506. 4 Claims. (Cl. 97—46.)



1. A rotary plow comprising an endless series of pivotally connected shoes having transverse spaced ribs on their outer faces, blades extending the full width of the shoes having their inner edges fitted between said ribs and secured thereto and having concave working faces, means for supporting the series of shoes at the rear of a tractor, and means for driving the same from the tractor.

1,750,220. MOTION-PICTURE APPARATUS. EDWIN C. FRITTS, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 22, 1924. Serial No. 733,653. 8 Claims. (Cl. 88—17.)



6. In motion picture apparatus, an objective, two stationary guide members extending behind said objective and constituting a film guide, the front member having an exposure window in alignment with the objective and having a slot, and intermittently operative film advancing mechanism in front of said guide and adapted to engage film in the guide through the slot, both of the guide members being curved uniformly and continuously opposite and past both said window and slot.

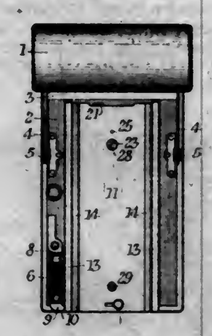
8. In motion picture apparatus, mechanism for advancing film including a rotary part, a motor connected to said mechanism for driving the same, a single manually movable member having an oscillatory movement, a part thereof moving tangentially to said rotary part, said member, when at one end of its path, acting as a brake directly upon said rotary part and, when at the other end of its path, permitting the rotary part to turn freely, said member, during its movement from the braking position to the free position, engaging and turning the rotary part to give it an initial turn.

1,750,221. VEHICLE FRAME CONSTRUCTION. CHARLES FROESCH, Teaneck, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 25, 1928. Serial No. 280,463. 2 Claims. (Cl. 280—106.)



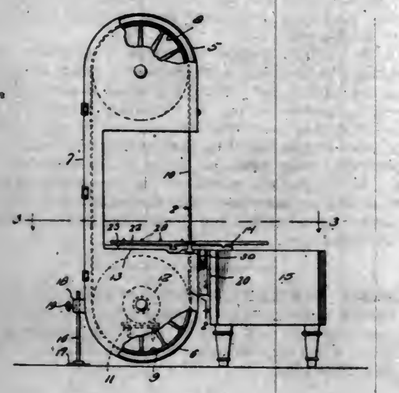
1. A vehicle frame comprising front and rear wheel housings, longitudinal strengthening members connected to the wheel housings at their inner sides, transverse strengthening members connecting the elements at either side, vertical flanges formed on the outer sides of the wheel housings, and outer belt plates secured to the flanges.

1,750,222. CAMERA-LENS CARRIAGE AND TRACK LATCH. CARL C. FUERST, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 29, 1928. Serial No. 289,106. 7 Claims. (Cl. 95—45.)



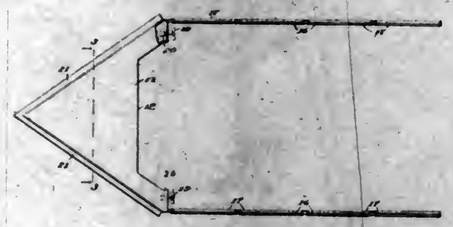
1. In a camera, the combination with a bed, of a track slidably mounted thereon, a lens carriage adapted to slide on the track, and means including a slotted link and a pin for connecting the camera bed and track adapted to limit the movement of the lens carriage in one direction.

1,750,223. MEAT-SAWING MACHINE. WALTON GRANT and GEORGE W. LIMEBAUGH, Circleville, Ohio. Filed July 5, 1928. Serial No. 290,657. 5 Claims. (Cl. 143—25.)



4. A meat cutting machine comprising a frame including a bed, said frame supporting a band saw and its associated mechanism, a sliding table on the frame and between the reaches of the saw and projecting laterally beyond one of said reaches, and yieldable means to normally slide said table to its limit of movement in one direction relative to the saw and the bed, said table having a longitudinal slot through which the saw extends, and stop lugs carried by the bed engageable with the ends of the table slot for limiting the sliding movement of the table in opposite directions, said lugs being disposed at opposite sides of the saw within said table slot.

1,750,224. FLOATING HARBOR. CLARENCE W. KING, Shreveport, La. Filed June 13, 1929. Serial No. 370,579. 6 Claims. (Cl. 114—0.5.)



1. A protected harbor for hydroplanes or other vessels comprising a floating breakwater, to be exposed to the wind, and widely separated floating planes or plates connected with the rear of said breakwater and extending above the surface of the water so as to afford a harbor which is open at its rear for the entrance of the hydroplanes or other vessels.

1,750,225. PROCESS OF ATTACHING SHOE WELTS AND OUTER SOLES. WALTER S. KING, Lakeland, Fla. Filed Sept. 12, 1928. Serial No. 305,487. 1 Claim. (Cl. 12—142.)



A method of attaching shoe welts comprising disposing the edge portion of the shoe upper outwardly, securing a folded welt strip at its longitudinal intermediate portion to the upper at its bent portion, disposing one edge portion of the welt over the edge portion of the upper, applying the outer sole to the inner sole, securing the last mentioned portion of the welt with the edge portion of the upper to the inner sole and outer sole, then disposing the opposite edge portion of the welt down against its secured portion, and securing the upper edge portion of the welt and the outer sole to the inner sole at the margin of the shoe upper.

1,750,226. EMBROIDERY NEEDLE. PHILLIP S. KIRBY, Baron, Okla. Filed Jan. 2, 1929. Serial No. 329,718. 5 Claims. (Cl. 112—80.)

1. An embroidery needle comprising merging trough-shaped and tubular sections provided adjacent opposite ends thereof with eyes for the passage of embroidery material, a guide exteriorly fitting and secured upon the walls of the trough-shaped section, a stop associated with the tubular section and having an extension directed between

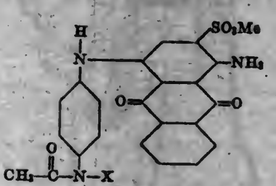
adjacent faces of the guide and the wall of the trough and slidable in a groove formed in one thereof, said extension



having a terminal portion interchangeably engageable in a series of longitudinally spaced openings formed in said wall of the trough.

1,750,227. ACID WOOL DYESTUFFS OF THE ANTHRAQUINONE SERIES. GEORG KRÄNZLEIN, Hochst-on-the-Main, ERICH KRONHOLZ, Bad-Soden-on-the-Taunus, and FRITZ ROMMEL, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 9, 1927, Serial No. 238,990, and in Germany Dec. 14, 1926. Renewed Dec. 11, 1929. 2 Claims. (Cl. 260—60.)

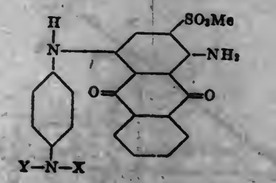
1. As new products, the dyestuffs of the following constitution:



wherein X stands for an alkyl or aralkyl group and Me for an alkali metal or for hydrogen dyeing wool blue tints, being easily soluble in water, having excellent properties as to fastness to light and possessing a great levelling power.

1,750,228. ACID WOOL DYESTUFFS OF THE ANTHRAQUINONE SERIES. GEORG KRÄNZLEIN, Frankfort-on-the-Main-Hochst, ERICH KRONHOLZ, Bad-Soden-on-the-Taunus, and FRITZ RÖMER, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 21, 1928, Serial No. 294,565, and in Germany Dec. 14, 1926. 3 Claims. (Cl. 260—60.)

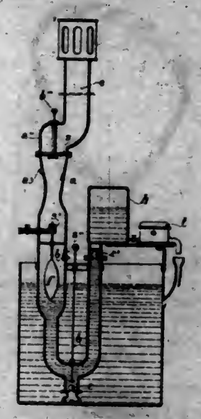
1. As new products, the dyestuffs of the following constitution:



wherein X stands for an alkyl or aralkyl group, Y for an aliphatic acyl residue and Me for a metal or for hydrogen dyeing wool blue tints, being easily soluble in water, having excellent properties as to fastness to light and possessing a great leveling power.

1,750,229. HEAT ENGINE ACTING AS A PUMP. JEAN RAOUL FRANÇOIS MARIUS LASMOLLES, Nerac, France. Filed Nov. 1, 1926, Serial No. 145,630, and in France Nov. 17, 1925. 3 Claims. (Cl. 103—249.)

1. In a thermal pump, a cranked body, of which the lower part dips in the liquid, a suction valve in said lower part, a delivery valve on one of the arms of the cranked body, a pipe for admission of combustible gases in the second arm of the body arranged vertically, a valve for

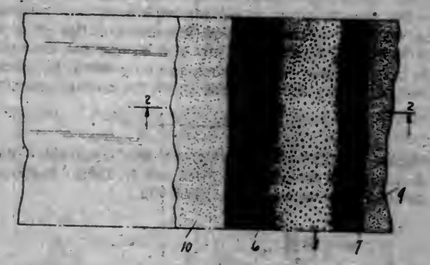


closing said pipe, a float arranged in the second arm for actuating said valve, means for igniting the combustible gas, and means for the escape of the burnt gases.

1,750,230. ELECTRIC ACCUMULATOR. HENRY LEITNER, London, England. Filed Mar. 28, 1929, Serial No. 350,797, and in Great Britain Mar. 27, 1928. 2 Claims. (Cl. 136—27.)

1. A process of forming a plastic mass for accumulator plates which consists in saturating a mixture composed of a major portion of glycerine and a minor portion of water, with sulphate of magnesium, mixing with said saturated solution a quantity of powdered lead monoxide and working the same into a stiff paste.

1,750,231. LEATHER COMPOSITION. SAMUEL H. LIFTON, New York, N. Y. Filed Dec. 20, 1927. Serial No. 241,424. 5 Claims. (Cl. 154—46.)



5. A leather composition consisting of a top and bottom, finely woven fabric which may be drilling, gauze, cotton sheeting or their equivalent, a linoleum filler having a non-drying binder which may be linseed oil impregnated in said woven fabric, a layer of granular cork applied to the face of the bottom fabric and a layer of thin leather cemented to the top fabric.

1,750,232. CRAVAT ATTACHMENT. SIEGFRID J. LINDSKOG, Los Angeles, Calif. Filed Jan. 12, 1929. Serial No. 332,065. 2 Claims. (Cl. 2—157.)

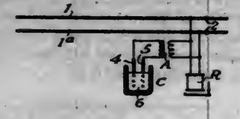
1. In combination, a four-in-hand cravat tied to provide a knot and a neck loop, a member positioned trans-

versely of the narrow end and about which the narrow end is transversely extended and coiled, and means on



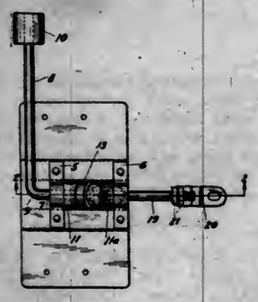
the member clamping the cravat for maintaining the narrow end extended and coiled about the member and retaining the member against displacement from the cravat.

1,750,233. RAILWAY SIGNALING TRACK-CIRCUIT REGULATOR. SAMUEL M. LUCAS, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 22, 1927. Serial No. 234,985. 5 Claims. (Cl. 246—34.)



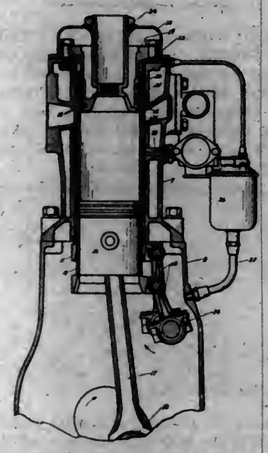
3. In a railway signaling track circuit of the type comprising track rails, a track relay having a winding connected across said rails, and a source of current also connected across said rails and adjusted to maintain the normal operating voltage across said relay winding during the lowest value of ballast resistance, the combination with the aforementioned instrumentalities of a device connected across said rails and having the characteristic of conducting current when and only when the voltage across said relay winding rises above the normal operating value.

1,750,234. SWITCH-OPERATING MECHANISM. FRED A. LUNDAHL, Moline, Ill. Filed Oct. 7, 1929. Serial No. 397,829. 5 Claims. (Cl. 246—411.)



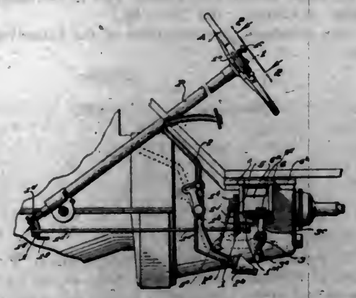
1. In a switch operating mechanism, a frame having bearing elements, a shaft rotatable in the bearing elements, means for rotating the shaft, cam members secured on said shaft and having spaced substantially parallel cooperating faces extending diagonally to the shaft, a perforated member mounted on the shaft between the said faces and cooperating therewith, and means connected with said member to be connected to the rails of the switch whereby the switch may be operated by rotating the shaft.

1,750,235. ENGINE-LUBRICATION MEANS. JOSEPH R. MARES, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 5, 1927. Serial No. 237,635. 15 Claims. (Cl. 123—196.)



1. The combination with a sleeve valve engine having a valve sleeve provided with an intake port, of means aided by exhaust gases to remove excess oil from the surface of the sleeves in the intake port region.

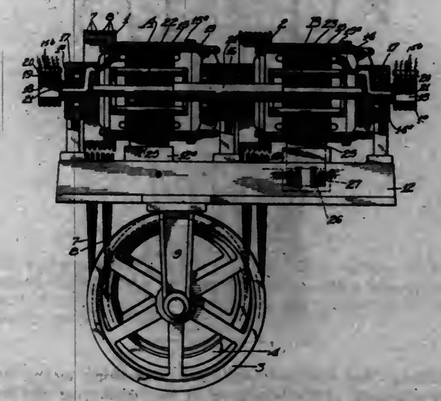
1,750,236. GEAR-SHIFTING MECHANISM FOR POWER TRANSMISSIONS. OVID E. MARK, San Diego, Calif. Filed May 21, 1928. Serial No. 279,533. 18 Claims. (Cl. 74—58.)



1. In a mechanism of the class described, the combination with a clutch lever, a power transmission and gear shifting members therefor, of a pair of slide bars operatively connected to each gear shifting member, a catch arm secured to each of said slide bars, cam means for selecting a predetermined catch arm, trip means engageable with said catch arms for shifting said selected catch arm, link members operatively connecting said trip means with said clutch lever, locking means for securing said selected catch arm in its shifted position, a ratchet and pawl means operatively connected to said clutch lever for

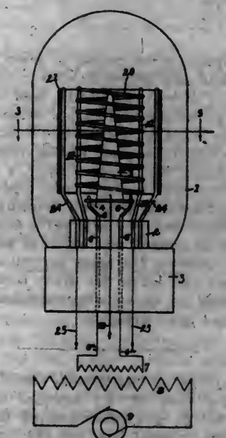
rotating said selection cams with a movement of said clutch lever and means for disengaging said pawl from said ratchet.

1,750,237. SLOW-SPEED ALTERNATING-CURRENT MOTOR MECHANISM. PHILIP MAYER, San Diego, Calif. Filed Dec. 23, 1925. Serial No. 77,195. 9 Claims. (Cl. 172—280.)



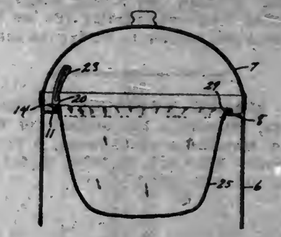
1. In an alternating current induction motor group, in combination, a revoluble secondary rotor means, separate, mechanically connected, oppositely revoluble primary members mounted in inductive relation with said secondary rotor means, similar windings on each primary member adapted to produce a plurality of revolving magnetic fields of different speeds, a source of alternating current, means for connecting said windings to said source of supply so that the magnetic fields in the two primary rotors are of different speeds but revolve in the same direction as the secondary rotor means, whereby said primary members are constrained to revolve in opposite directions at a speed substantially lower than the difference of said field speeds.

1,750,238. THERMIONIC TUBE. ORAN T. MCILVAINE, East Cleveland, Ohio, assignor to The Radio Television Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 2, 1925. Serial No. 41,069. 5 Claims. (Cl. 250—27.5.)



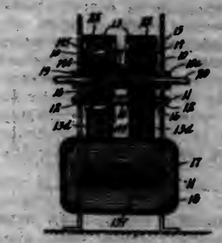
2. In a thermionic tube, in combination, a heating filament, and a flat, tapered, metal plate supported by said filament and in thermal conducting relation therewith.

1,750,239. COFFEE-URN DEVICE. THOMAS H. MILLS, Providence, R. I. Filed Oct. 16, 1929. Serial No. 400,116. 5 Claims. (Cl. 53—8.)



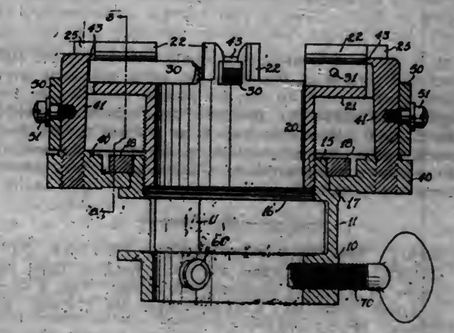
1. In a device of the character described, an incomplete resilient supporting ring, an inwardly inclined vertical handle upon one end of the ring, a horizontally disposed hook upon the other end of the ring slidably engaging the handle, and a foraminous bag provided with an annular tube for the reception of the ring.

1,750,240. ALTERNATING-CURRENT MOTOR. ALBERT P. MYER, Minneapolis, Minn., assignor to Simplex Heat Regulator Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Mar. 14, 1927. Serial No. 175,192. 2 Claims. (Cl. 172—278.)



1. An alternating current motor comprising a frame member having a lower portion, a field coil on said portion, said frame being divided above said coil into laterally spaced sections, each having spaced upper portions comprising spaced pole pieces and a rotor disposed between said pole pieces also having laterally spaced and similarly constructed sections substantially alined with said sections of said field frame and spaced the same distance from said pole pieces.

1,750,241. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to Borden Company, Warren, Ohio, a Corporation of Ohio. Filed July 8, 1927. Serial No. 204,236. 11 Claims. (Cl. 10—120.5.)



1. In a die stock, the combination of a stationary frame, a rotatable ring thereon, tapered pins rigidly carried by

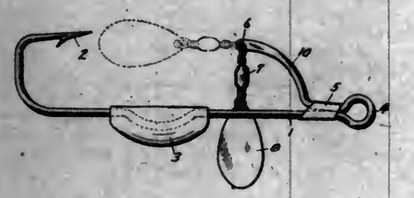
the ring, a chaser carrying frame having a sleeve portion threaded to the stationary frame and having a head portion with chaser housings, chasers occupying said housings and engaging the pins, and a ring independent of the chaser carrying frame surrounding the set of pins and rigid with them and adapted to receive the outward thrust thereon.

1,750,242. REMOTE-METERING SYSTEM. SAMUEL OSTROLENK, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 30, 1926. Serial No. 105,732. 3 Claims. (Cl. 177—351.)



1. In a duplex signalling system, a network comprising a first leg, a second leg connected thereto, and an artificial line, an indicating device connected across said legs and to said artificial line, between normally equi-potential points of said legs, a meter device, including a photo-electric cell, connected to the junction of said legs, a signalling line connected to said indicating device and one leg, said artificial line having such value as to balance the normal resistance of said line, a source of light and means controlled by said indicating device for varying the amount of light from said source impinging on said photo-electric cell to vary the conductivity thereof for any meter reading, as said line resistance varies from normal.

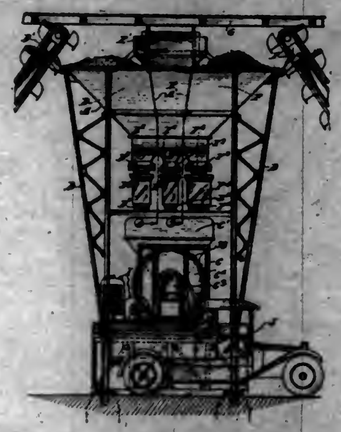
1,750,243. COMBINED HOOK AND WEED GUARD. JOSEPH E. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 6, 1925. Serial No. 35,358. 2 Claims. (Cl. 43—39.)



1. A fish hook comprising a single wire having one end bent and formed as the hook, the other end being bent upon itself to form an eye, an integral extension on the hook curved upwardly therefrom and extending toward the hook but spaced therefrom so as to form a rigid weed guard, and a spinner pivotally connected to the end of the extension and adapted to rotate in the space between the extension and the hook.

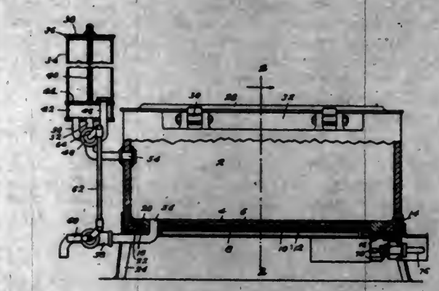
1,750,244. MACHINE FOR MAKING UNIFORM CONCRETE. JOHN F. ROBB, Cleveland Heights, Ohio, assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed May 9, 1928. Serial No. 276,363. 41 Claims. (Cl. 83—73.)

1. In a machine for producing uniform mixed concrete, in combination aggregate supply means, an aggregate measuring device associated with each aggregate supply means, discharge means for each aggregate measuring device, mixing means to unite and receive the different aggregates from the several aggregate measuring devices, means to



discharge the mixing means, and controlling means for the charging and discharging of the measuring devices coacting to control the charging and discharging of the mixer.

1,750,245. STERILIZER. GUSTAVE H. SCHWEDLER, Kansas City, Mo. Filed Sept. 1, 1927. Serial No. 216,881. 3 Claims. (Cl. 167—3.)



1. In a sterilizer, a receptacle, a drain cock connected to said receptacle and provided with a controlling lever, a tank mounted above said drain cock and having its lower portion partitioned off into a compartment, a pipe leading from the main portion of said tank, a pipe leading into the compartment, a pipe leading from the compartment, a pipe leading into the receptacle, a valve for establishing communication between said pipes and provided with a lever, and a connecting rod operably connecting the levers on the drain cock and said valve and whereby when the drain cock is opened the valve is adjusted to open communication between the main portion of the tank and its compartment and when the drain cock is closed said valve is adjusted to open communication between said compartment and the receptacle.

1,750,246. ELECTRIC TERMINAL BLOCK. LEMUEL W. SERRELL, New York, N. Y., assignor to Serelco, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1926. Serial No. 105,643. 8 Claims. (Cl. 175—298.)

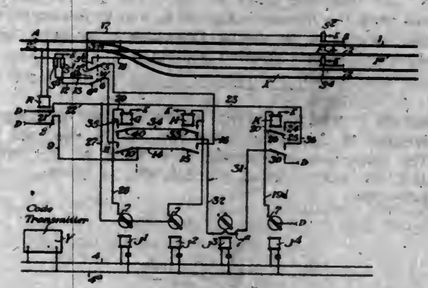
1. In an electric terminal block, a conductor comprising a channel member, a plurality of posts mounted in the

channel member, and a plurality of similarly formed strips oppositely placed and mounted in the said posts, each of the said strips having flat sections at intervals for connection with the posts and curved sections adjacent the



flat sections with a socket section intermediate of the curved sections, the said socket section being adapted to receive and engage a terminal for the completion of an electric circuit.

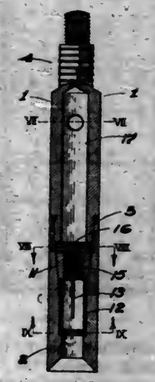
1,750,247. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. PAUL P. STOKES, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Dec. 8, 1927, Serial No. 238,558. Renewed Aug. 2, 1929. 5 Claims. (Cl. 246—5.)



5. In combination, a section of railway track, a signal governing traffic through said section, a first relay controlling said signal, a second relay, means for selectively energizing said relays, a manually controlled normally closed contact, means effective after the first relay has been energized and operating if the second relay is open to hold the first relay closed until said contact becomes open, and means effective after the first relay has been energized and operating if the second relay is closed to hold the first relay closed until said contact becomes open or until a train enters said section.

1,750,248. FISHING TOOL FOR SUCKER RODS. ORVILLE J. THOMPSON, Franklin, Pa. Filed July 17, 1929. Serial No. 378,915. 1 Claim. (Cl. 294—102.)

In a fishing tool for sucker rods, a cylindrical body provided at its upper end with means for attachment to an actuating means, also a bore extending into the lower end of said body forming a socket and chuck-chamber, said chamber being formed at its upper end with upwardly-diverging walls terminating at their upper limit in a shoulder, and a longitudinally-movable, cylindrical chuck within said chamber consisting of an elongated tubular element adapted to be limited in its upward movement by contact of its upper face with said shoulder, said chuck having at its upper end expansible and contractible jaws and a rod passage therebetween for contact and engagement with the periphery of a rod, said limit of the upward



movement of said chuck being for the purpose of forcing said jaws over the rod to be operated upon, the outer peripheral faces of said chuck jaws having upwardly-diverging surfaces for contact with said diverging walls of said chamber when the tool is raised, as and for the purpose set forth.

1,750,249. TRANSMISSION-LINE DEVICE. NILS A. WAHLBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1927. Serial No. 212,195. 8 Claims. (Cl. 173—318.)

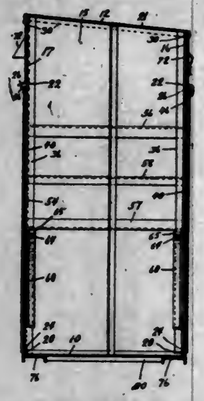


1. In a transmission-line device, the combination with a clamp including a conductor-receiving member and a member for clamping the conductor relative thereto, of an electrostatic-field-controlling element comprising a multi-part arc-assuming member and a member held in position by said clamping member for holding said arc-assuming parts together.

1,750,250. PORTABLE METAL ELECTRIC-SWITCH HOUSE. MORRIS B. WOOD, Somerville, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1927. Serial No. 209,743. 8 Claims. (Cl. 189—2.)

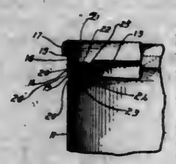
1. An outdoor switch house adapted to contain an electric switch, its operating mechanism, control panel and the like and composed of top, bottom and side walls of sheet metal fixedly united, one to another, and having integral inturned side edges of substantial depth which form house-bracing members characterised by providing the sole support for the walls, said house being free

from any internal supporting frame, the inturned side edges of the top wall depending over the outer faces of said end walls, and the inturned edges of the bottom wall upstanding within the inner faces of said end walls



and side plates extended between the top ends only of said end walls and located between the inturned side edges thereof and the opposed inturned side edges of said top wall, the sides of the house having doors which close the openings under said side plates.

1,750,251. COMBINATION TEARING STRIP AND FRICTION CLOSURE CAN. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 2, 1925. Serial No. 66,228. 3 Claims. (Cl. 220—54.)



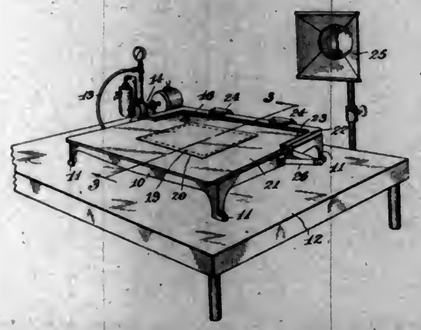
1. A can, comprising a body having score lines setting off a tearing strip around the body near its top, the material of the body being bent inwardly in a hollow looped flange below and near the tetring strip and to a distance beyond the rest of the interior surface of the body and forming an internal friction wall, and a cover having an external shoulder fitting tightly within the mouth of the body and a flange double-seamed with the top edge of the body and an external friction wall of less diameter than the said shoulder and fitting tightly within said internal friction wall of the body before the said tearing strip is removed.

1,750,252. WIRE-TIGHTENING DEVICE. MANUEL ARANCAL, San Francisco, Calif. Filed Dec. 9, 1925, Serial No. 74,344. Renewed Aug. 3, 1929. 1 Claim. (Cl. 140—123.5.)



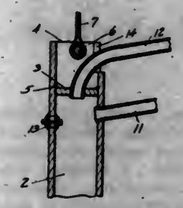
A wire tightening device comprising a pair of pivotally connected crossed handles having upper and lower gripping jaws, the lower jaw projecting downwardly and forwardly at an angle from the meeting point of said jaws, and having a right angle forward projection at the bottom thereof.

1,750,253. PHOTO-ENGRAVER'S PRINTING FRAME. WILLIAM J. ADAM, Brooklyn, N. Y., assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 2, 1926. Serial No. 145,813. 7 Claims. (Cl. 95—76.)



1. A printing frame, comprising: a stationary base with open-work top; a tiltable frame hingedly secured to the base, and a plate of transparent glass carried by said tiltable frame; a flexible cushioning and sealing member normally resting on said stationary base and adapted to receive both a sensitised plate and a negative from which a print is to be made thereon; and a vacuum connection thru said flexible member adapted to permit the same to follow movement of the tiltable frame relatively to its base and for temporarily causing attachment of negative and sensitised plate to the glass of the tiltable frame when the vacuum is applied as well as to permit the tiltable frame to be swung therewith away from said stationary base into printing position.

1,750,254. HEADER FOR WATER-TUBE BOILERS. WILBUR H. ARMACOST, New York, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Jan. 23, 1928. Serial No. 248,701. 4 Claims. (Cl. 122—360.)



1. In a header of the class described having a closed upper end, the means of support comprising an extension of the walls of the header upward beyond the closure of the upper end, a bar engaging said extension at two opposite points, a fixed support above the header, and a hanger engaging the bar and the support.

1,750,255. COMBINED PENCIL AND LIGHTER. WILLIAM P. ARON, Dallas, Tex., assignor of one-half to Evangeline Rorex, Dallas, Tex. Filed Mar. 26, 1928, Serial No. 264,641. Renewed Jan. 11, 1930. 5 Claims. (Cl. 67—7.1.)

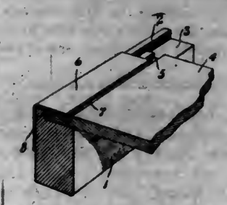
4. In combination with a body, a cover pivoted to one end of the body, lighter means operable by the

cover, a clip disposed exteriorly of the body and pivoted between its ends to the body, latching means on one



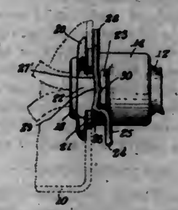
end of the clip, and means on the cover to engage the latching means, the opposite end of the clip being formed to engage the wall of a pocket.

1,750,256. TABLE TOP. EMMONS W. BONFIELD, Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Apr. 11, 1927. Serial No. 182,623. 4 Claims. (Cl. 45—31.)



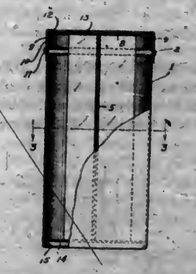
2. A table top comprising an open frame, a cover sheet of paper board or like material located over said frame, holding strips of sheet metal attached to the outer sides of the frame and extending over the edge portion of the cover sheet, said cover sheet having grooves paralleling its edges in the upper sides into which the inner free edges of the holding strips enter.

1,750,257. OUTLET-BOX CLAMP BUSHING. WILLIAM A. BONNELL, Brooklyn, N. Y. Filed Oct. 2, 1926. Serial No. 139,153. 2 Claims. (Cl. 247—25.)



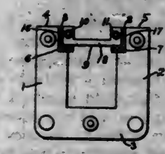
2. The combination with an outlet box having cable receiving openings, of a bushing having a flange of greater diameter than the openings in the box, a reduced step equal to the openings, and a body of lesser diameter, said flange, step and the adjacent portion of the body being recessed on two opposite sides, outstanding notched ledges on said body at the ends of the recesses, a spring wire keeper to straddle said body and engage between said ledges and surface of the box whereby said flange is drawn forcibly against the inner marginal surface of the opening, nodes on said spring wire keeper to engage the notches in the ledges, and means on said bushing to secure a cable entered therein.

1,750,258. PACKAGE. DONALD D. BROWN, Valley Stream, N. Y. Filed June 2, 1928. Serial No. 282,452. 1 Claim. (Cl. 206—46.)



A receptacle comprising a hollow body member and a pair of angle shaped partitions therein one of which has a longitudinal reentrant groove adapted to receive the longitudinal ridge portion of the other, and both being provided with longitudinal flanges bearing against portions of the interior surface of the body member.

1,750,259. ELECTRICAL MEASURING INSTRUMENT. ALBERT CALLSEN, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 9, 1927, Serial No. 211,731, and in Germany Dec. 9, 1926. 1 Claim. (Cl. 171—264.)



In an induction meter, the combination with a magnetic core of substantially U shape providing a pair of spaced pole pieces, of a magnetic shunt comprising an intermediate portion saturable at a predetermined flux value and enlarged end portions, and means for securing said shunt to said pole pieces whereby the enlarged end portions thereof increase the effective area of the faces of said pole pieces.

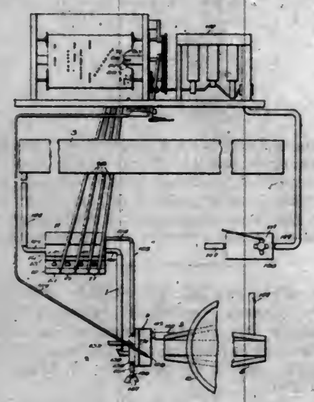
1,750,260. RESILIENT WHEEL FOR VEHICLES. HENRY DIELMANN, Woodhaven, N. Y. Filed Mar. 24, 1927. Serial No. 177,937. 2 Claims. (Cl. 152—42.)



1. In a resilient wheel of the class described, a driving connection member provided with an elongated aperture

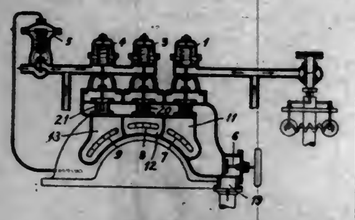
adapted to slidably receive a tapered member, said tapered member adapted to engage a cylindrical member, a means for securing the said tapered member in the said driving connection member.

1,750,261. EXPRESSION-CONTROL DEVICE. GUSTAV A. FORSBERG, Chicago, Ill., assignor to Gulbransen Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 1, 1927. Serial No. 180,103. 18 Claims. (Cl. 84—39.)



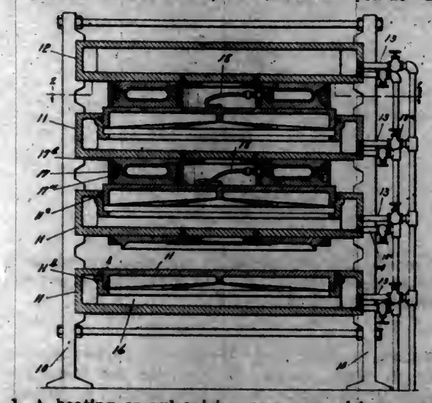
1. In an expression control device for player pianos, a suction chamber, means for admitting atmospheric air to the chamber, said means including a plurality of expansible members independently operable and subject to the tension in the chamber, said members being normally all open to the atmosphere and expansion of the members being opposed with different degrees of intensity, and means for cutting off communication between one or more of said members selectively and the atmosphere.

1,750,262. BACK-PRESSURE TURBINE. KARL FREY, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Mar. 3, 1927, Serial No. 172,543, and in Germany Mar. 5, 1926. 2 Claims. (Cl. 137—158.)



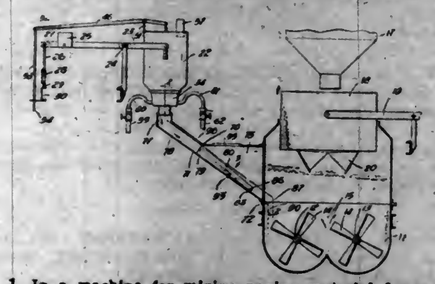
1. In steam turbine apparatus, a turbine casing provided with a plurality of consecutively arranged steam-supply chambers partitioned one from the other, a steam-supply chest common to said chambers, a main steam-supply controlling valve interposed between said steam-supply chest and one of the end-most of said steam-supply chambers, valve means associated with the other of said chambers for controlling steam flow thereinto from said chest by way of said main valve, and means responsive to high and low back-pressure conditions of said turbine and being operable at such conditions to effect closing and opening movements respectively of said valve means, said end-most of said steam-supply chambers being in direct communication at all back-pressure conditions with said steam-supply chest by way of said main valve.

1,750,263. MULTIPLE HEATING OR VULCANIZING PRESS. JOHN R. GAMMETER, Akron, Ohio. Filed Mar. 20, 1928. Serial No. 263,077. 7 Claims. (Cl. 18—17.)



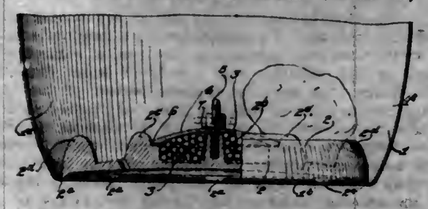
1. A heating or vulcanising press comprising a series of spaced, jacketed platens adapted to receive the goods to be treated therebetween, and means for supplying a heating or curing medium to said platens, said platens having a movable platen face operable by pressure of the curing medium therein on at least one of each set of cooperating faces.

1,750,264. SPREADER FOR MIXING MACHINES. THEODORE A. GARROW, Los Angeles, Calif. Filed Nov. 28, 1923. Serial No. 677,391. 3 Claims. (Cl. 94—43.)



1. In a machine for mixing paving material for road and street work, a receptacle adapted to receive and weigh a required quantity of hot liquid asphaltum, a mixer adapted to receive a predetermined quantity of dry paving material and the weighed quantity of hot asphaltum and mix the two materials together and a fan shaped spreader intermediate the asphaltum determining apparatus and the apparatus for commingling the asphaltum and dry material, said spreader being adapted to deliver the asphaltum into the mixer in a continuous sheet of even depth.

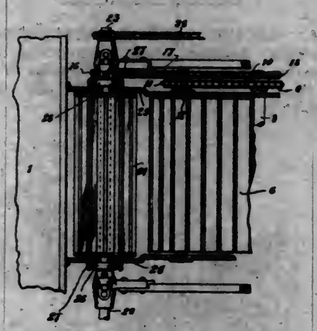
1,750,265. MINIATURE STEAM-COOKING DEVICE. LUDDER H. GROTHEER, San Diego, Calif. Filed June 8, 1929. Serial No. 369,322. 3 Claims. (Cl. 53—2.)



2. The combination with a receptacle, of a false bottom means adapted to be positioned loosely therein, means for

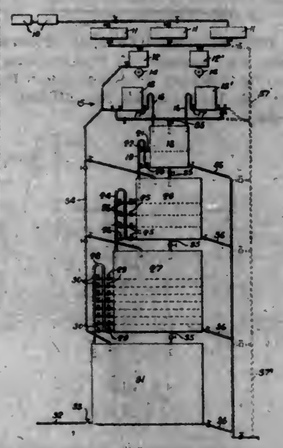
supporting the lower surface of said false bottom means in raised position relative to the bottom of said receptacle, and means for varying the weight of said false bottom means.

1,750,266. FODDER CUTTER. SIDNEY U. HAMAKER, Canton, Ohio, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 17, 1925. Serial No. 50,804. 1 Claim. (Cl. 146—109.)



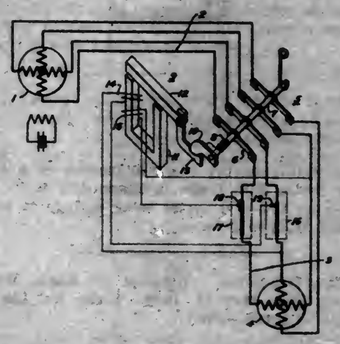
Feed mechanism for fodder cutters and the like, including a feed hopper having guideways in its side walls, a lower feed roll mounted for rotation in the hopper, an upper feed roll mounted in the hopper for moving to and from the lower feed roll and having an axial shaft extending at the ends into the guideways, and wheels journalled on the ends of the shaft and movable into rolling contact with the sides of the guideways by the pressure of the material fed between the rolls.

1,750,267. AUTOMATIC FERMENTATION APPARATUS. ARTHUR PENNOYER HARRISON, Washington, D. C., assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del., a Corporation of Delaware. Filed June 9, 1927. Serial No. 197,547. 8 Claims. (Cl. 195—18.)



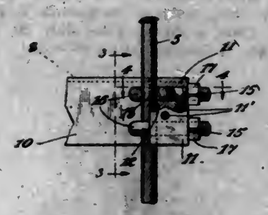
8. An apparatus for manufacturing yeast by propagation by an "addition" process, including a series of fermenters arranged at different and progressively lower levels, a take-off pipe connected to each and leading to the succeeding fermenter, each of said take-off pipes being substantially in the form of an inverted U and having arms of unequal length, the short arm being connected to the preceding fermenter and reaching to approximately the bottom thereof, the bend of said U establishing the maximum liquid level in the fermenter to which it is connected, each fermenter of the series being of approximately double the capacity of the next preceding fermenter, certain of said take-off pipes and fermenters being equipped at various levels with a short pipe leading from the fermenter to the short arm of the U and at substantially the same level from the short arm of the U to the long arm of the U, each of said short pipes being equipped with valves whereby an aliquot of the liquid may be removed therefrom without respect to the height of the U-shaped bend of the take-off pipe.

1,750,268. RELAY PROTECTIVE SYSTEM. OLIVER S. JENNINGS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 26, 1928. Serial No. 634,878. 9 Claims. (Cl. 175—294.)



8. In an electrical circuit, the combination with a switch and an electromagnet provided with a coil energized from the circuit to maintain said switch in closed position and an auxiliary coil, of a thermal relay in said circuit for short-circuiting said auxiliary coil upon the occurrence of an overload in said circuit to render said electromagnet ineffective to hold said switch in closed position.

1,750,269. CABLE SCAFFOLD. FRANK B. JOHNSTON, Roselle Park, N. J. Filed Feb. 7, 1928. Serial No. 252,443. 8 Claims. (Cl. 304—40.)

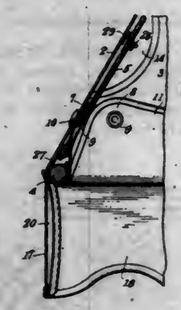


1. In a scaffold, spaced scaffold suspending cables, a platform supporting putlog extending between said cables, and means mounted on each end of the putlog and adjustable with relation thereto to rigidly fix the end of the putlog in adjusted position upon the cable.

1,750,270. COATED IRON AND STEEL ARTICLES AND METHOD OF MAKING THE SAME. ELMER M. JONES, Detroit, Mich., assignor to Parker Rust-Proof Company, Detroit, Mich., a Corporation of Michigan. Filed June 13, 1927. Serial No. 198,696. 9 Claims. (Cl. 148—6.5.)

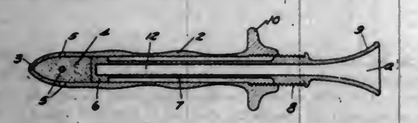
1. Iron or steel articles, or articles having surfaces of iron or steel, having a coating formed in situ on said surfaces and comprising a silicate of iron and a phosphate.

1,750,271. AWNING. LOUIS KABAN, New York, N. Y. Filed Nov. 7, 1927. Serial No. 231,555. 18 Claims. (Cl. 156—15.)



9. An awning having the combination of a frame, a rope for lifting said frame, a suspension device secured to said rope, and said device being springy to attach to and detach from said frame.

1,750,272. DILATOR. WILLIAM J. KIRK, Wellsburg, W. Va. Filed May 15 1926. Serial No. 109,280. 6 Claims. (Cl. 128—230.)



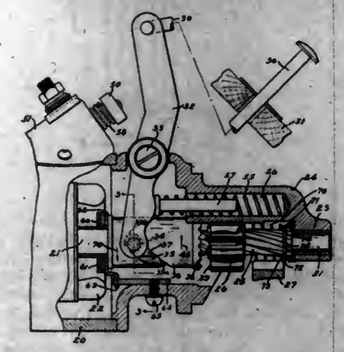
1. A dilator consisting of a hollow elongated integral body circular in cross section having a non-bulging tapered perforated minimum diameter end portion and a longitudinally undulating variable and maximum diameter exterior and a rear annular flat faced limiting flange, and a continuously integral interior hollow plunger having threaded connection with the outer end of the body.

1,750,273. MUSIC STAND. MARIE WILLIAM KRAUTH, Hamilton, Ohio, assignor to Krauth & Benninghofen, Hamilton, Ohio, a Firm. Filed July 20, 1927. Serial No. 207,241. 2 Claims. (Cl. 248—43.)



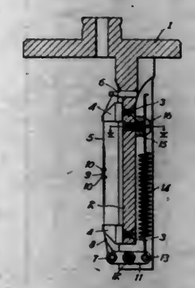
1. A latching means for a post supporting tripod, comprising, a carrier slidably mounted on the post, links pivotally connected to the carrier and to the respective legs of the tripod, an abutment formed on said post intermediate the base of the post and the carrier, a latch pivotally attached to a link pivot on said carrier, said latch moving adjacent to a side of the link and a pair of clips formed on the outer end of the latch, said clips adapted to engage the respective edges of the link for limiting movement of the latch and said latch having a hook portion adapted to engage the abutment for locking the tripod in set-up position.

1,750,274. ENGINE-STARTING APPARATUS. JOHN W. LAWSON, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 22, 1928. Serial No. 287,492. 16 Claims. (Cl. 74—7.)



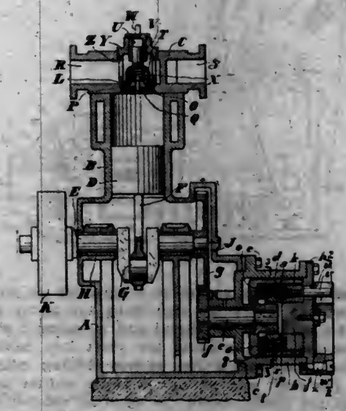
1. An engine starter drive comprising a rotatable driving member movable axially to engage with a driven part connected with the engine to be started, but normally spaced from the engine part; a rotatable device for rotating the driving member; and manually operable means for moving the driving member toward the engine part and for turning the rotatable device only during the movement of the driving member toward the engine part.

1,750,275. DEFLECTING SYSTEM. JOSEPH W. LEGO, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1927. Serial No. 221,601. 13 Claims. (Cl. 171—95.)



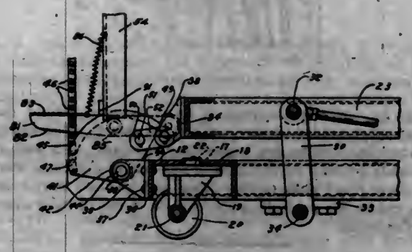
1. In a deflecting system a ribbon under tension, means to support said ribbon at its ends and to prevent it from twisting at said ends, and a permanent magnet mounted on said ribbon.

1,750,276. COMPRESSOR UNLOADER. RAYMOND C. MCALLISTER, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 27, 1927. Serial No. 242,857. 6 Claims. (Cl. 230—29.)



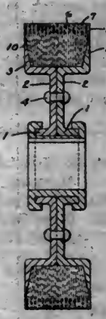
1. The combination with a compressor of a member driven by the compressor, spring pressed weights adapted to rotate with said member, a rotatable portion having a limited movement and adapted to be frictionally gripped by said weights and released therefrom by the centrifugal force acting on the weights, and a pneumatic controlling valve adapted to be actuated by said rotatable portion, said compressor having an inlet valve adapted to be controlled by said controlling valve.

1,750,277. LIFT TRUCK. CHARLES L. MOORMAN, Chicago, Ill. Filed May 9, 1927. Serial No. 189,855. 10 Claims. (Cl. 254—10.)



1. In a lift truck, the combination of a supporting frame with a lifting frame and a plurality of links connecting said frames, a hoisting cam of variable radius, a link connecting said cam and said lifting frame, a tension member attached to said cam, and a drum for winding said tension member.

1,750,278. COMPOSITE GEAR. HOWARD R. MOYER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 13, 1924. Serial No. 698,883. 9 Claims. (Cl. 74—28.)



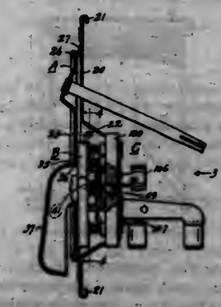
1. A composite article comprising a flanged hub portion and a non-metallic untreated rim portion, the latter being partially clamped between the flanges of said hub, the exposed portion having inserts of fibrous sheet material treated with a hardened binder.

1,750,279. STOP-LIGHT SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 7, 1928. Serial No. 324,365. 9 Claims. (Cl. 200—161.)



1. In an electric switch comprising, a supporting bracket; a case; means for joining the case to the bracket to provide a pair of parallel walls, a shaft journalled in said bracket and case; a non-conducting movable contact carrier mounted on said shaft; a plurality of contacts insulatingly mounted on the supporting bracket to be engaged by the movable contact; a spring for yieldingly maintaining the movable contact in engagement with one of the stationary contacts, and means for rotating the shaft in one direction, and an operating member for rotating said shaft in the opposite direction.

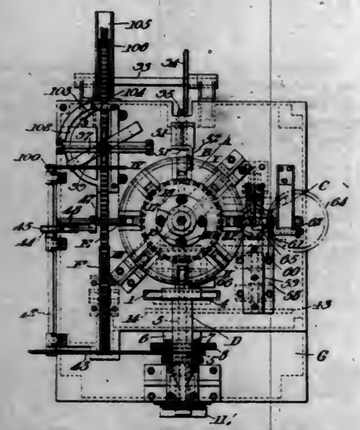
1,750,280. ELECTRIC SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 27, 1928. Serial No. 328,684. 11 Claims. (Cl. 200—11.)



1. An electric switch comprising, in combination, a pressed sheet metal mounting bracket having a dial plate

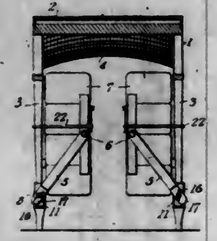
fixed thereto, said mounting bracket having a frusto-conical portion pressed therein substantially perpendicular to said dial plate to form a switch housing integral with said bracket, a stationary switch back carrying terminals and stationary contacts fixed to the end of said frusto-conical portion, movable switch mechanism within said case and having movable contacts, stops formed from the frusto-conical wall portion of said bracket to limit the movement of said switch mechanism, and a switch handle having a hub portion extending through said dial plate and operatively connected with said movable contacts.

1,750,281. MACHINE FOR ASSEMBLING BOOK MATCHES. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Apr. 6, 1927. Serial No. 181,478. 10 Claims. (Cl. 93—7.)



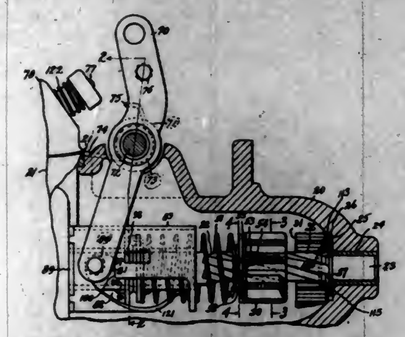
1. In a machine for assembling book matches, a movable carrier, means associated with said carrier for feeding cover-blanks thereto, means for positioning cards of matches upon said cover blanks, means for folding said cover-blanks into partial book form upon said cards of matches, means for completing the folding of said covers means for uniting said covers and cards of matches, and means for discharging the finished match books from said carrier, said first mentioned folding means being actuated by said discharge means.

1,750,282. LIFE PRESERVER. MARIN POPESCU, Bucharest, Rumania. Filed July 15, 1929. Serial No. 378,285. 15 Claims. (Cl. 9—12.)



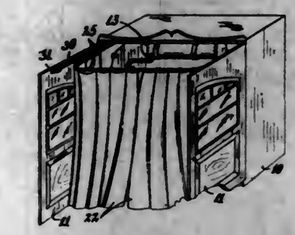
1. A life preserver comprising a chair adapted to be submerged in inverted state, the inverted seat of said chair adapted to receive a person in sitting position, and a pair of oppositely disposed floats located at the upper end of said inverted chair and being joined to the chair.

1,750,283. ENGINE-STARTING APPARATUS. FRANK H. PRESCOTT, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware. Filed Jan. 17, 1929. Serial No. 333,139. 20 Claims. (Cl. 74—7.)



1. Engine starting apparatus comprising, in combination, a motor; means for connecting the motor with a gear of an engine to be started and including a shaft, a pinion movable axially along the shaft into mesh with the engine gear, and a lost motion driving connection between the shaft and pinion; a pinion shifter movable axially of the shaft; means for effecting rotation of the shifter while it is moved axially; a spring for transmitting axial and rotary movement from the shifter to the pinion whereby the pinion may be rotated in case it abuts the engine gear prior to meshing, said pinion being yieldingly urged by said spring against the engine gear; and means for operating the shifter.

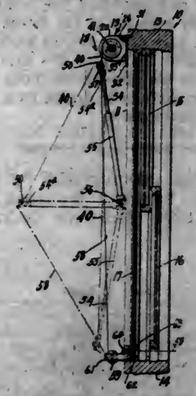
1,750,284. BATH CABINET. ANDREW RUSATZ, Northampton, Pa., assignor of one-half to John Yurasits, Northampton, Pa. Filed May 31, 1929. Serial No. 367,280. 2 Claims. (Cl. 4—146.)



1. In combination with a closet having hinged doors, horizontal guides secured within the closet, a rod having a transverse portion for supporting a curtain and side arms slidably secured on the guides, pull levers pivotally secured at their front ends to the doors and at their rear ends to the guides for projecting the curtain outward upon opening of the doors.

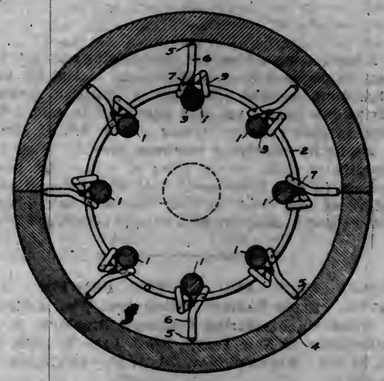
1,750,285. AWNING. GEORGE SCHULER, Woodside, N. Y. Filed July 16, 1927. Serial No. 206,144. 3 Claims. (Cl. 156—44.)

2. In a window awning adapted to be longitudinally extended over the entire length of the window, a spring roller, a bracket in which the roller is mounted to rotate, a curtain secured at one end to the roller, self-adjusting telescopically arranged curtain extending means in engagement with the free end of the awning, pivotally supported on the window frame, means suspended from the free end of the curtain whereby the said curtain may be rolled or unrolled, and a guide for the last mentioned



means, mounted below and in front of the center of the extending means pivot, to permit the said extending means to assume an angular position when fully extended.

1,750,286. SPACER. AUGUST C. SHERWAN, Milwaukee, Wis., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1927. Serial No. 221,410. 2 Claims. (Cl. 72—76.)



1. A spacer for spacing a reinforcing frame in a mold and adapted to engage the frame at the junction of the longitudinal and transverse members thereof, said spacer comprising a single straight end portion to space the frame from the mold and a deformed helical portion comprising two loop portions which encircle the transverse member at opposite points of the longitudinal member.

1,750,287. PROCESS OF PRODUCING PERMANENT PAINTS. NORBERT SPECHT, Oranienburg, near Berlin, Germany, assignor to Deutsche Gasglühlicht-Auer-Gesellschaft mit beschränkter Haftung, Berlin, Germany, a Corporation of Germany. Filed Oct. 21, 1925, Serial No. 64,032, and in Germany Oct. 31, 1924. 1 Claim. (Cl. 134—58.)

The process of treating a titanium oxide pigment contaminated by acid adhering thereto, which consists in washing such pigment to remove the major portion of said adhering acid, then removing a further portion of such acid by neutralization with an alkali, then neutralising the remaining portion of such acid by kneading with about five per cent of zinc oxide, filtering, washing and drying the resulting product, and heating it to incandescence.

1,750,288. POLISHING COMPOUND. OTHO V. STEWART, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1925. Serial No. 74,192. 6 Claims. (Cl. 51—280.)

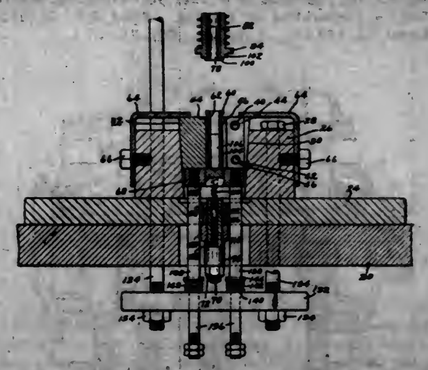
1. A composition of matter which consists of finely divided green chromic oxide intimately mixed with stearine wax.

1,750,289. LIFTING TRUCK. WILLIAM STUEBING, Jr., Cincinnati, Ohio, assignor, by mesne assignments, to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed July 21, 1927, Serial No. 207,470. Renewed Feb. 19, 1929. 4 Claims. (Cl. 254—10.)



1. A lifting truck comprising, in combination, a lower frame, an elevating frame, a depending flange on said elevating frame, a handle pivotally mounted on said lower frame, a lifting hook pivotally mounted on said handle and extending rearwardly beneath said flange when said handle is raised, said hook being unbalanced so that it remains normally out of engagement with said flange but may be caused to engage the same when swung upwardly from its normal position.

1,750,290. SIZING DIE FOR FLANGE BEARINGS. ALBERT H. VALENTINE and JOHN C. LEMMING, Dayton, Ohio, assignors to The Moraine Products Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 6, 1928. Serial No. 244,907. 25 Claims. (Cl. 18—16.)

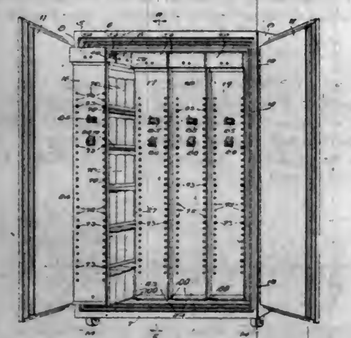


1. The method of forming a compressible bushing to a desired predetermined size which consists in placing the bushing within a die, inserting a mandrel within the bushing and applying pressure to the outer surface of the bushing in a direction normal to the axis thereof while it is within the die.

1,750,291. FILING CABINET. IRENE B. WHETSTONE, Chicago, Ill. Filed July 12, 1926. Serial No. 121,875. 1 Claim. (Cl. 45—2.)

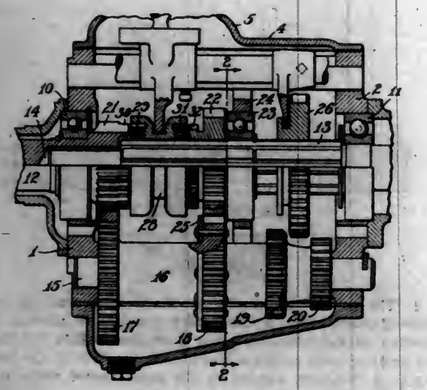
In a cabinet of the class described, the combination of an enclosing case having an open front and closed at the top, bottom, back and sides, a plurality of book racks each having means for supporting a plurality of vertically tiered rows of books and each rack being free at the bottom for

movement over the floor free of the surface thereof, said racks being each adapted to carry a relatively great weight and each vertically elongated with the bottom of each rack adjacent the bottom of the case and movable into and from the case in close proximity to the floor, means individually supporting each rack sole from the top of the case by suspension therefrom and permitting extension of the racks individually from the case, the extension support for each rack comprising a first bar rigidly suspended from the top



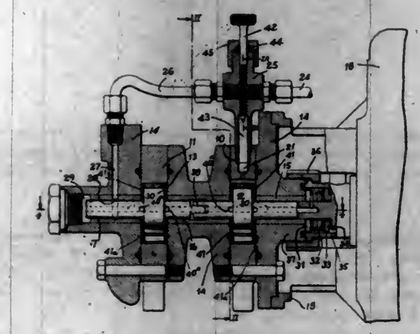
of the case above the rack, a second bar underlying said first bar and attached to the top of the rack, and an extensible guide comprising a pair of connected channels slidably hung from said first bar and forming a hanger for slidably supporting said second bar, said second bar having sliding movement in said extensible guide for extension therefrom and said guide having sliding movement on said first bar for extension therefrom to form a double extension support at the top of each rack.

1,750,292. TRANSMISSION GEAR. SAMUEL O. WHITE, Muncie, Ind., assignor to Warner Gear Company, Muncie, Ind., a Corporation of Indiana. Filed Feb. 21, 1927. Serial No. 169,687. 2 Claims. (Cl. 74—57.)



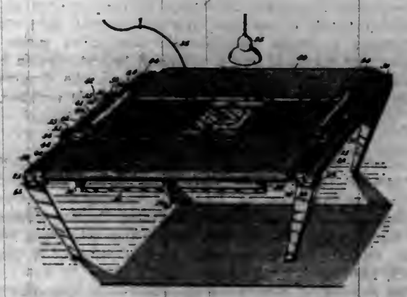
1. In an automobile transmission the combination with a transmission casing, of co-axial driving and driven shafts mounted in said casing, bearings in the end walls thereof for said shafts, a drive gear on said driving shaft adjacent a bearing in the end wall of the casing, a counter-shaft mounted in said casing, a gear on said counter-shaft meshing with said drive gear, a second gear on said counter-shaft, a gear on said driven shaft meshing with said second gear on the counter-shaft and mounted intermediate of the end walls of the casing, a transverse wall intermediate of the end walls of the casing and connecting the side walls thereof, a bearing for said driven shaft mounted in said intermediate wall and receiving the axial thrust in one direction of the gear mounted on the driven shaft, an annular rim on the side face of the second meshing gear on the counter-shaft adapted to receive the axial thrust of the driven shaft gear in the opposite direction and means for causing said driven shaft to be driven from the drive shaft directly or through said gears.

1,750,293. SYSTEM AND METHOD OF LUBRICATING COMPRESSORS. EDWARD T. WILLIAMS, Brooklyn, N. Y. Filed July 31, 1926. Serial No. 126,172. 12 Claims. (Cl. 230—207.)



1. A lubricating system for compressing apparatus comprising, in combination, an oiler-body, means for supplying lubricant to said oiler-body, a cylinder, means for supplying lubricant from said oiler-body to said cylinder, a rotor in said cylinder having a hole drilled along its axis, means for supplying lubricant directly to said hole, a plurality of disks on the sides of said rotor, passages transverse to said first-named hole and disposed near to the sides of said rotor whereby lubricant is fed between said disks and toward the bore of said cylinder.

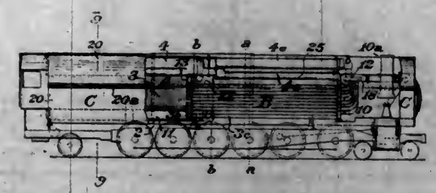
1,750,294. STEP AND REPEAT PRINTING APPARATUS. ELLIS BASSIST, Milwaukee, Wis., assignor to F. Wesel Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed June 2, 1925, Serial No. 34,363. Renewed Nov. 29, 1929. 13 Claims. (Cl. 95—76.)



1. In printing apparatus of the character set forth: a table or frame providing a horizontally disposed base; means to retain thereon a sensitized plate and including a

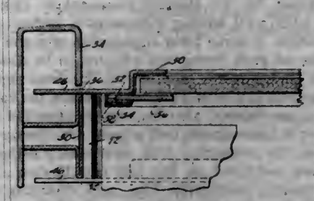
bed plate, guide pins extending therethru from said table and on which said bed plate may move vertically; a plurality of cams bearing against the under face of said bed plate, and means to move said cams; a source of light to which the sensitized plate may be exposed; intermediate adjustable masking means; and a negative carrier associated therewith and adapted to be located in consecutive positions over the sensitized plate.

1,750,295. STEAM BOILER. ALFRED W. BRUCE, New York, N. Y. Filed June 2, 1927. Serial No. 195,888. 15 Claims. (Cl. 122—94.)



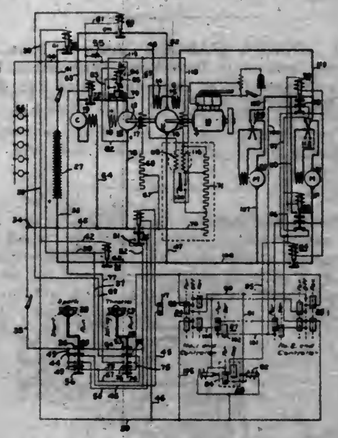
1. In a locomotive, the combination of a locomotive frame structure; a steam generating member; a heat absorbing member for heating water, in communication with the steam generating member, said members being structurally independent one of the other; and means connected with the members, constituting therewith a boiler structure preventing relative longitudinal displacement of the members independently of any frame structure connections, said means being connected with the frame structure, to retain said boiler structure against longitudinal displacement relative to the frame structure.

1,750,296. WINDOW SASH AND FRAME CONSTRUCTION. HARRY E. CAMPBELL, Baltimore, Md., assignor to Campbell Metal Window Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 24, 1928. Serial No. 295,085. 4 Claims. (Cl. 189—76.)



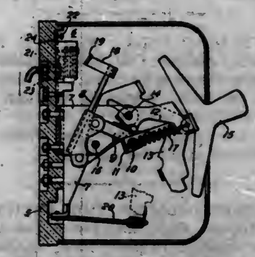
1. A window sash construction comprising a bottom rail having members adapted to form a glass channel, side rails each formed to provide a glass rabbet and a glass stop channel, glass stops adapted to slide endwise into operative position in such channels, means adapted to prevent the glass stops from being moved sidewise from their operative position out of said channels, a top rail formed to provide a glass rabbet and a removable member adapted to serve as a top glass stop and adapted to hold the side glass stops against endwise movement.

1,750,297. POWER SYSTEM. ANDREW H. CANDEE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 20, 1927. Serial No. 227,448. 13 Claims. (Cl. 290—11.)



8. In a power system, in combination, a variable speed engine, a main generator and an auxiliary generator driven by the engine, a plurality of auxiliary circuits disposed to be connected to the generators and means responsive to the loading of the engine for selectively connecting the battery to the generators.

1,750,298. CIRCUIT BREAKER. ALFRED CORBETT, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1927. Serial No. 243,879. 4 Claims. (Cl. 200—144.)



1. A circuit breaker comprising a pair of spaced contact members, a pair of connected spaced contact blades for engaging the said contact members, a separate metal arc quenching barrier for each blade disposed across the path of movement of the blade and provided with an opening through which the blade moves, the said barriers being spaced and insulated from the contact members, and a metal arc quenching barrier superimposed in spaced relation to the first barriers and provided with openings through which the blades move.

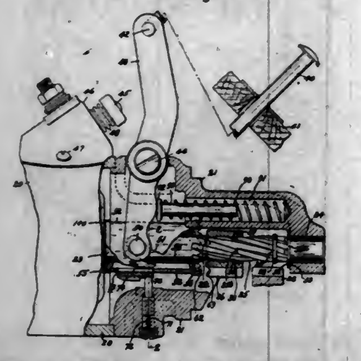
1,750,299. PRODUCTION OF ACYL RESORCINOLS. ALFRED R. L. DOHME, Baltimore, Md., assignor to Sharp & Dohme, Inc., Baltimore, Md., a Corporation of New Jersey. Filed Apr. 16, 1925. Serial No. 23,700. 11 Claims. (Cl. 260—131.)

1. The method of making acyl resorcinols which comprises heating a mixture of zinc chloride and a fatty acid

to a temperature of about 125–145° C. and gradually adding resorcinol to the heated mixture.

9. The method of making hexylyl resorcinol which comprises heating a mixture of caproic acid and not more than one-half its weight of zinc chloride to a temperature of about 125–145° C., and gradually adding resorcinol thereto.

1,750,300. ENGINE STARTER. JOHN B. DYER, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 9, 1928. Serial No. 245,300. 10 Claims. (Cl. 74—7.)

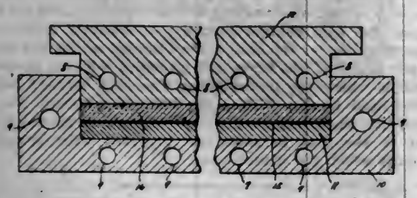


1. Engine starting apparatus comprising in combination, a motor; a shaft operated by the motor; means for connecting the shaft with the gear of an engine to be started including a pinion mounted on the shaft for longitudinal movement thereof and for rotary movement therewith; a manually operable actuator; means operated by the actuator for moving the pinion longitudinally of the shaft and for rotating the pinion in case of gear tooth abutment while the pinion is abutting the engine gear; and means for preventing the remeshing of the pinion with the gear until after the actuator has been returned to normal position.

1,750,301. WELDING FLUX. ROBERT R. FULTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1926. Serial No. 135,997. 10 Claims. (Cl. 148—26.)

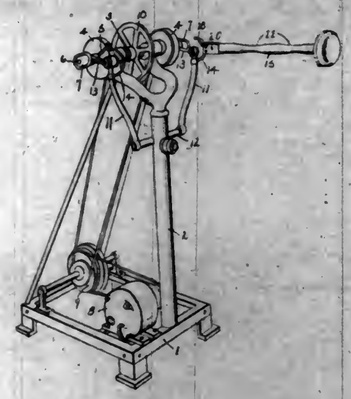
1. Welding flux containing a copper silicon alloy and a substantial amount of ammonium borate.

1,750,302. MOLDED COMPOSITION ARTICLE. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 3, 1927. Serial No. 223,500. 6 Claims. (Cl. 154—46.)



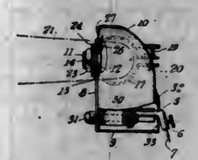
6. As a new article of manufacture, an ornamented molded panel comprising: a main body portion of bituminous material and a relatively hard decorative outer casing molded and cured in situ upon said bituminous material, said casing comprising a fibrous sheet having color contrast ornamentations thereupon embedded under a thin layer of transparent synthetic resin.

1,750,303. MASSAGING MACHINE. NORRIS E. GOODRICH, Battle Creek, Mich., assignor, by mesne assignments, to Sanitarium Equipment Company, Battle Creek, Mich. Filed May 19, 1927. Serial No. 192,594. 5 Claims. (Cl. 128—63.)



1. In a massaging machine, the combination of a reciprocating driven element having a rearwardly facing curved hook thereon, and an applicator comprising a rigid shaft having an eye of substantial width closely but slidably and pivotally engaging said hook whereby the applicator may be swung vertically and laterally on said driven element relative to the plane in which the driven element reciprocates.

1,750,304. PHONOGRAPH PICK-UP. CARL F. GOUDY, Flushing, N. Y., assignor to Pacent Radio Corporation, New York, N. Y., a Corporation of Delaware. Filed May 28, 1928. Serial No. 281,187. 10 Claims. (Cl. 179—100.41.)

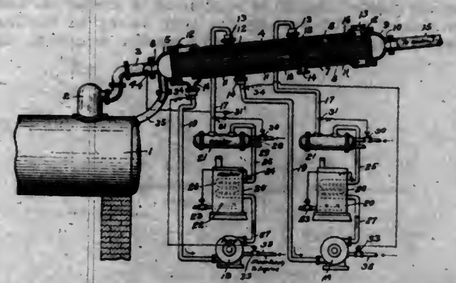


1. A casing for an electric phonograph pick-up, comprising a back wall having a forwardly projecting bottom wall extension, a cover hood engageable over the back wall and having an open lower end adapted to be closed by the bottom extension when in place on the back wall, a hub projecting from the back wall and by which the casing with the pick-up mechanism therein may be mounted in proper relation on a phonograph and a tone arm clamp shiftably engaged on the projecting hub, said clamp comprising an arm portion swiveled on the hub and having at its free end a forwardly projecting tone arm clamping structure standing in the plane of the cover and adapted to swing over the top of the cover from one side to the other.

1,750,305. INSULATING MATERIAL. JOSEPH E. GROSS, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1927. Serial No. 234,563. 13 Claims. (Cl. 175—21.)

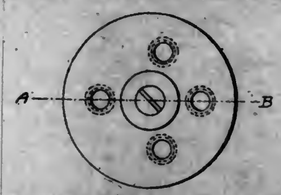
1. An article of manufacture comprising magnetic sheet material provided with a thin, adherent, electrical insulating and heat resisting coating, said coating containing sodium silicate and a substantial proportion of finely divided mica.

1,750,306. FRACTIONATING APPARATUS. ELIOT HUNTINGTON HARRIS, Pittsburgh, Pa., assignor to Benjamin M. Herr, Pittsburgh, Pa. Filed Aug. 6, 1926. Serial No. 127,564. 5 Claims. (Cl. 196—141.)



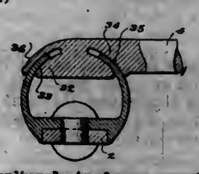
5. Fractionating apparatus, comprising a shell, at least one vapor conveying passage extending therethrough, means for delivering condensable vapors to said passage, said passage extending upwardly from the vapor inlet to the outlet end thereof, means for delivering fluid to the interior of said shell in heat transferring relation to said passage, means for varying the temperature and means for varying the rate of flow of such fluid at different points along said passage to control the rate of heat transfer between the fluid so delivered and the vapors traversing said passage.

1,750,307. ELECTRON-DISCHARGE DEVICE. NORMAN PULLEN HINTON, Timperley, England, assignor to Associated Electrical Industries Limited, a British Company. Filed Nov. 21, 1925, Serial No. 70,548, and in Great Britain Dec. 5, 1924. 2 Claims. (Cl. 178—344.)



1. In a combination with an electron tube having a base carrying contact pins, and a socket having receptacles adapted to receive said pins, an adapter comprising a plate having a pin arrangement like that of said base, a second plate having a receptacle arrangement like that of said socket, means to maintain said last named pins and receptacles in substantial alignment, and flexible means connecting each pin of said plate with the receptacle of said other plate aligned therewith.

1,750,308. CAR-COUPLER-OPERATING DEVICE. CHARLES L. HOWARD, Chicago, Ill. Filed Aug. 1, 1927, Serial No. 209,884. Renewed Jan. 20, 1930. 7 Claims. (Cl. 213—169.)



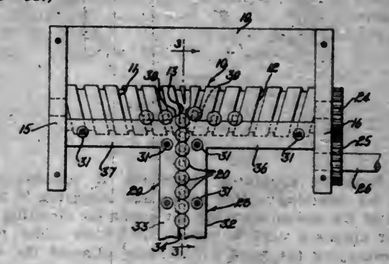
1. In an uncoupling device for car couplers, an operating member, and a substantially horizontal pin lifting member having at one extremity means to support a coupler pin and having at its other extremity a T-head and slot connection with the operating member, which connection permits one member to swing in a substantially horizontal plane but restricts the relative movement at said connection between the members in a substantially vertical plane.

1,750,309. LETTERING DEVICE. JOSEPH T. JANOSEK, Cleveland, Ohio, assignor of one-half to Arthur Oliver, Cleveland, Ohio. Filed Nov. 28, 1928. Serial No. 322,561. 1 Claim. (Cl. 33—174.)



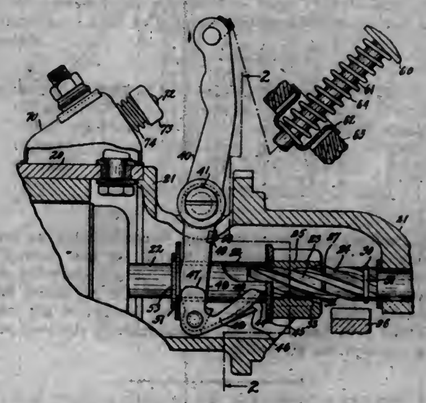
A lettering device comprising in combination a J-shaped rounding tool and a separate rectangular block letter O-shaped squaring tool having on its face notches at spaced intervals, said tools being equal in length, breadth and width.

1,750,310. APPARATUS FOR ARRANGING ARTICLES. FRANK FERDINAND JONKEL, Chicago, and HOMER WALDO LARSON, Downers Grove, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 16, 1926, Serial No. 116,490. Renewed Nov. 8, 1929. 7 Claims. (Cl. 198—33.)



4. In an apparatus for arranging articles, a screw member having a peripheral way for guiding properly positioned articles and oppositely disposed spiral ways terminating in the peripheral way for properly positioning indiscriminately arranged articles and advancing them through the peripheral guideway.

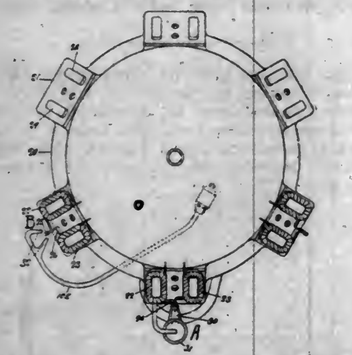
1,750,311. ENGINE-STARTING APPARATUS. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 24, 1926. Serial No. 118,230. 8 Claims. (Cl. 74—7.)



1. Engine starting apparatus comprising, in combination, a motor; means for connecting the motor with the gear of an engine to be started and including a shaft, a pinion slidable along the shaft into mesh with the engine gear and driven by the shaft, and provisions whereby the

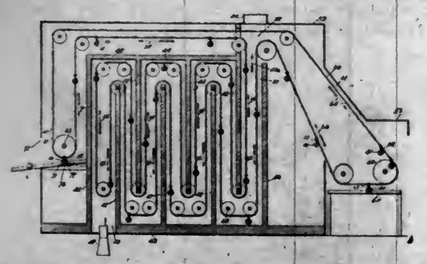
pinion will be automatically demeshed from the engine gear when the engine becomes self-operative; and means for yieldingly retaining the pinion in gear-meshing position relative to the shaft during the cranking operation, said means being free of the pinion substantially before the pinion is completely demeshed.

1,750,312. SOLDERING APPARATUS. RODGER J. EMMERT, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 29, 1925. Serial No. 26,577. 10 Claims. (Cl. 113—59.)



1. Soldering apparatus comprising, in combination, a duct for receiving molten solder and supplying it to the work in the molten state, an air nozzle for directing a jet of air upon the work to remove the excess solder, means for conveying the work successively adjacent the solder duct and the air nozzle, means for causing molten solder to issue from the duct when the work is adjacent the duct, and means for causing air to be supplied to said nozzle when the work is adjacent the nozzle.

1,750,313. COATING AND DRYING APPARATUS. RODGER J. EMMERT, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 29, 1925. Serial No. 65,687. 7 Claims. (Cl. 34—12.)



1. Drying apparatus comprising, in combination, an oven having an inlet for receiving heated air and having a conduit forming a warm air outlet, and a conveyor for conveying articles to be dried through the air outlet into the oven, then through the oven to the heated air inlet and then back again over the same course in the oven and then through the air outlet.

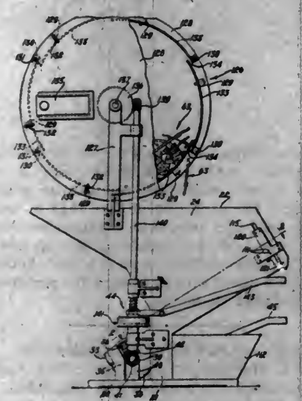
1,750,314. CAR COUPLER. MILTON FORCHHEIMER, Newark, N. J. Filed Dec. 31, 1926. Serial No. 158,147. 2 Claims. (Cl. 213—179.)

2. A coupling device comprising a member adapted to be attached to a car, and comprising a draw bar and a downwardly inclined flat portion extending outwardly therefrom and having an opening therein near its outer end, a latch pivoted to said member and having a downwardly curved end which normally extends into said opening, a second member adapted to be attached to another car and formed of a substantially flat body having an opening near its outer end and an angle member secured to its



under side and having an outwardly extending portion spaced from and beneath said second named opening, said second named member being adapted to ride up on the said downwardly extending portion as said cars move toward one another and to engage and lift said latch and move beneath said latch until said second named opening registers with said latch and said latch drops into said second named opening.

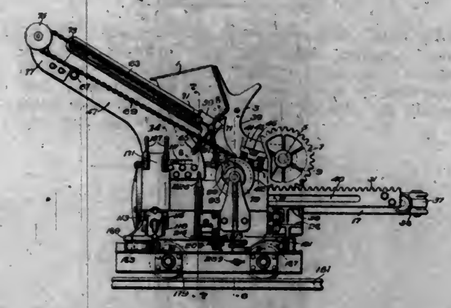
1,750,315. APPARATUS FOR ARRANGING ARTICLES. CLEM H. FRANKS, La Grange, and MARVIN ROY OLSEN, Glen Ellyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 16, 1926, Serial No. 116,493. Renewed Nov. 8, 1929. 19 Claims. (Cl. 198—29.)



1. In an apparatus for arranging articles, a screw mechanism for arranging an article associated therewith, a cam, and rotary means cooperating therewith for disassociating the article from the screw mechanism and for rearranging the disassociated article in a predetermined position.

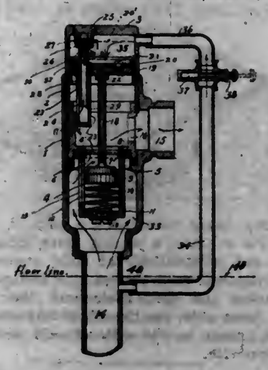
1,750,316. MATERIAL-HANDLING APPARATUS. GEORGE H. GILMAN, Belmont, Mass. Filed Dec. 8, 1921, Serial No. 519,634. Renewed Aug. 2, 1929. 44 Claims. (Cl. 214—90.)

1. A machine of the character described having, in combination, a pivoted shovel arm, a cooperating gear and rack for moving said arm, and means for moving said rack in one direction relative to said gear while withholding motion from said pivot and for moving said gear



in the opposite direction relative to said rack for causing translation of said pivot and swinging of said arm about said pivot.

1,750,317. FLUSH VALVE. CHARLES S. HOPE, Springfield, Mass., assignor, by mesne assignments, to Katherine Keating, John D. Keating, and Brightie E. Brutnell, Springfield, Mass., and Mary K. Quirk, Middletown, Conn. Filed Nov. 5, 1923. Serial No. 672,788. 2 Claims. (Cl. 137—93.)

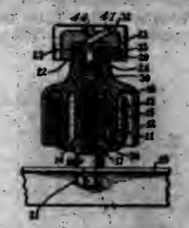


1. A flushing valve structure comprising an upright casing having inlet and outlet openings and a piston chamber at the upper end of said casing, a valve controlling the passage of water between said openings, a piston in said chamber and connected to said valve, means disposed externally of the casing to admit water from a source of supply on the pressure side of said valve to said piston chamber on the side of the piston opposite that of the outlet opening, said means being connected to the chamber at one side thereof, and means to permit the passage of the water so admitted through the piston to the outlet opening.

1,750,318. CABLE-SUPPORT INSULATOR. JOHN KAISER, Dobsina, Czechoslovakia. Filed Nov. 28, 1928. Serial No. 321,294. 2 Claims. (Cl. 173—318.)

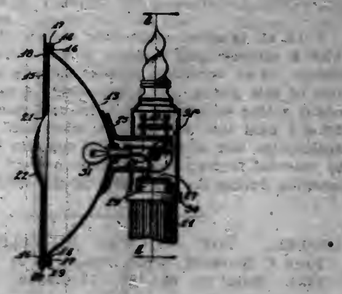
2. In an insulation bell of the class described, a body member with an extended element having a transverse opening for the passage of a wire, a clamping block within the opening for engaging against the wire, a head member

connected with said extended element for holding the block in place, an engaging member pivoted on the head member



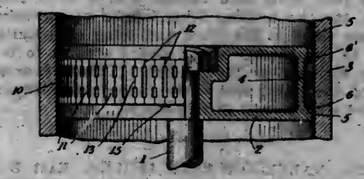
and engaging said clamping block, and manually operable, adjustable means for abutting said engaging member for holding the clamping block against said wire.

1,750,319. SIGNAL DEVICE. WILLIAM G. KEITH, Chicago, Ill., assignor to Welsbach Traffic Signal Company, Philadelphia, Pa., a Corporation of Delaware. Original application filed Oct. 16, 1926, Serial No. 142,012. Divided and this application filed July 31, 1928. Serial No. 296,517. 1 Claim. (Cl. 40—133.)



In a signal device, a support, a reflector mounted on said support, a glass disc supported in said reflector, a face plate having perforated characters thereon and a central opening therein and mounted on the front of said reflector, a lens mounted in said disc and projecting through said central opening, and illuminating means in said reflector, said reflector being of a substantially parabolic cross-section whereby the rays of light are evenly distributed over said face plate to illuminate said characters.

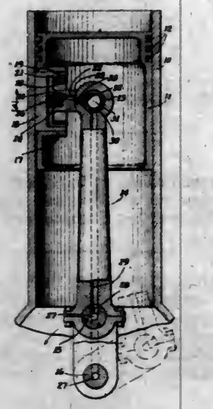
1,750,320. METALLIC PACKING AND METHOD OF CONSTRUCTION. CHARLES Y. KNIGHT, Pasadena, Calif., assignor to Knight American Patents Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 6, 1922. Serial No. 592,912. 12 Claims. (Cl. 74—109.)



1. A packing ring for use in preventing passage of gas or the like between two surfaces or parts composed of a plurality of inflexible elements abutting against each other and carried directly by one of said parts and maintained against the other part solely by the abutment of said elements.

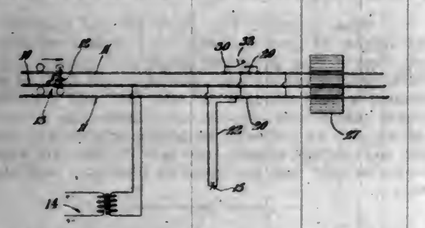
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1,750,321. INTERNAL-COMBUSTION ENGINE. CHARLES Y. KNIGHT, Pasadena, Calif., assignor to Knight & Kilbourne Development Co., Chicago, Ill., a Corporation of Illinois. Filed June 13, 1924. Serial No. 719,722. 9 Claims. (Cl. 74—108.)



1. In an internal combustion engine, the combination with a cylinder and a piston mounted for reciprocation therein, of an extensible member slidably mounted in the side of said piston, and independent of said piston, said piston acting solely as a guide for said member; means to draw a fluid into said member when said piston is held against the side of said cylinder opposite to said member by external forces; and means to prevent the fluid from escaping during the remainder of the stroke.

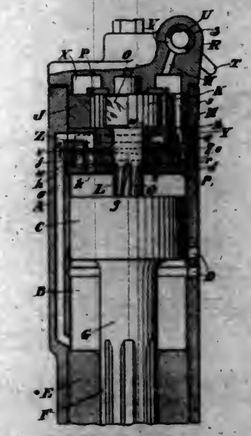
1,750,322. TOY RAILWAY SIGNALING SYSTEM. JOHN C. KOERBER, South Orange, N. J. Filed Aug. 22, 1928. Serial No. 301,182. 10 Claims. (Cl. 246—31.)



1. In a toy electric railway system a track having a continuous third rail and two wheel bearing rails insulated from said third rail, a source of current connected to a wheel bearing rail and to said third rail, said wheel bearing rails being each formed with a short insulated section, the two sections being located at approximately the same point in the track and being electrically connected to one another and a device adapted to be electrically operated by the passage of the car over said point of the track, said device being connected to said insulated sections and to said source.

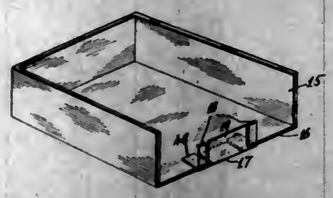
1,750,323. VALVE FOR ROCK DRILLS. EARL B. LEAR, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 14, 1928. Serial No. 325,952. 5 Claims. (Cl. 121—19.)

1. In a fluid actuated rock drill, the combination of a cylinder and a piston, an exhaust port for the cylinder, a valve chest having a valve chamber, inlet passages leading from the valve chamber to the cylinder, an oscillatory plate valve in the valve chamber to control the inlet passages, and ports and passages in the valve chest



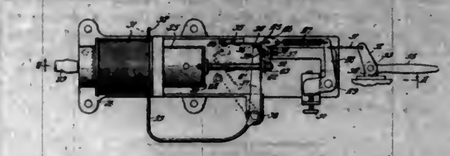
for conveying pressure fluid over both ends of the valve during its course to the inlet passages, thus exerting a suction on both ends of the valve tending to throw the valve from one limiting position to the other.

1,750,324. GALLEY CLAMP. FREDERICK J. METZ, New York, N. Y. Filed Aug. 13, 1928. Serial No. 299,187. 2 Claims. (Cl. 40—11.)



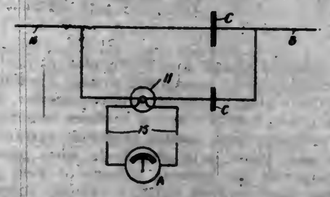
1. A galley clamp, comprising a pair of spaced prongs integral with a plate, a second plate integral with the said plate and substantially at right angles thereto, the prongs having rearward turned tips and roughened rear sides adjacent the said plate and the plate having roughened front sides on the edges adjacent the prongs, and spaced prongs on the sides of said second plate and integral therewith.

1,750,325. ADJUSTABLE TREMOLO DEVICE. BERT E. MILLS, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1928. Serial No. 282,864. 10 Claims. (Cl. 84—11.)



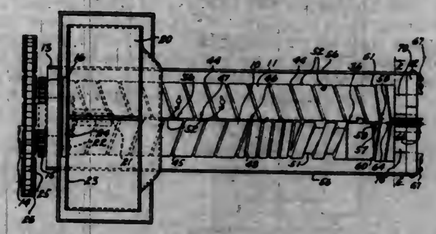
6. In combination with a string tensioning device of a stringed instrument of the viol class, a tremolo device comprising a pulsating device connected with said tensioning device, a pump provided with a conduit serving said pulsating device, an electrically-operated device for actuating said pump in one direction, including an electric circuit and a make-and-break device controlled by the pump, yielding means for actuating the pump in the opposite direction, and means operable at will during the playing of the instrument for varying the tension of said yielding means to thereby vary the control of said make-and-break device by the pump.

1,750,326. INDICATING DEVICE FOR HIGH-FREQUENCY CURRENTS. ALEXANDER NYMAN, Dobbs Ferry, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 24, 1926. Serial No. 137,486. 10 Claims. (Cl. 171—95.)



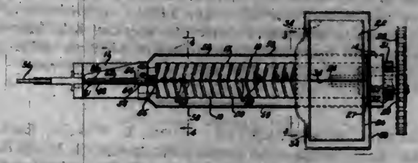
4. An indicating device comprising a condenser, means for connecting the device to an outside operating circuit, a second condenser and a thermoelement in shunt with the first condenser, and at least one device connected to the second condenser and said element to damper disturbing oscillations induced from the outside operating circuit.

1,750,327. APPARATUS FOR ARRANGING ARTICLES. MARVIN ROY OLSEN, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 20, 1928. Serial No. 287,032. 14 Claims. (Cl. 198—33.)



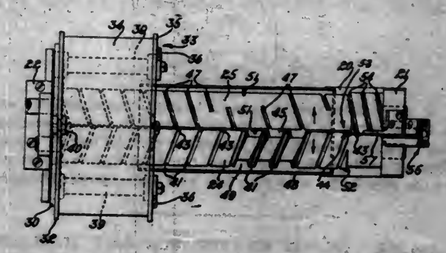
1. In an apparatus for arranging articles, a screw mechanism having a portion for receiving and advancing articles indiscriminately associated therewith, and another portion for reversing improperly positioned articles.

1,750,328. APPARATUS FOR ARRANGING AND MAGAZINING ARTICLES. ROBERT HAND PATCHEN, Chicago, and GEORGE LYNDEN ROCK, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 16, 1926. Serial No. 116,491. 17 Claims. (Cl. 198—33.)



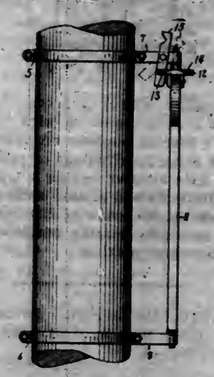
1. In an apparatus for arranging articles, a screw mechanism comprising a pair of parallel screw devices for advancing an article indiscriminately associated therewith, said screw devices having means formed thereon for arranging the advancing article into a predetermined position.

1,750,329. APPARATUS FOR ARRANGING ARTICLES. ROBERT HAND PATCHEN, Chicago, and GEORGE LYNDEN ROCK, Cicero, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 16, 1926. Serial No. 116,492. 16 Claims. (Cl. 198—33.)



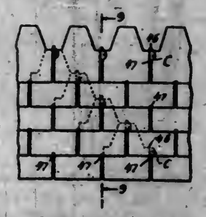
1. In an apparatus for arranging articles, a screw mechanism for advancing an article, and a means cooperating therewith having a groove for arranging the article during the advancement thereof into a predetermined position.

1,750,330. ROAD SIGN. WALTER A. RIDA, West Haven, and HOWARD A. PERRIGO, Whitneyville, Conn. Filed Feb. 20, 1929. Serial No. 341,416. 2 Claims. (Cl. 40—68.)



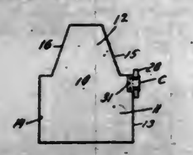
1. A road sign, comprising a pair of horizontal supports, a sign pivotally mounted in said supports and provided at its upper end with a disk having a plurality of notches, and a gravity latch pivoted to the top support and adapted to engage either of the notches in said disk.

1,750,331. SHINGLE. WILLIAM A. SCHOLLMEYER, Yonkers, N. Y. Filed Feb. 12, 1929. Serial No. 339,368. 6 Claims. (Cl. 108—7.)



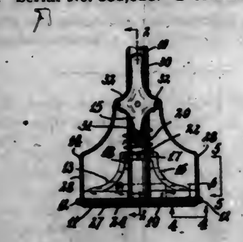
1. A shingle having one end tapered in width and having substantially parallel side edges at the other end, and a tab projecting laterally beyond one of the parallel edges and located at the inner end thereof, said tab being adapted to mount a securing clip.

1,750,332. SHINGLE. WILLIAM A. SCHOLLMEYER, Yonkers, N. Y. Filed Feb. 12, 1929. Serial No. 339,369. 4 Claims. (Cl. 108—83.)



1. In combination, a shingle having a straight edge and a clip secured to said edge and having a portion projecting beyond the edge, the projecting portion having spaced lugs extending laterally from the clip and transversely to the shingle for engaging side edges of adjacent shingles.

1,750,333. GUARD MEMBER FOR MOP HANDLES. FREDERICK SCHWEIGERT, New York, N. Y. Filed Apr. 10, 1929. Serial No. 353,923. 2 Claims. (Cl. 15—152.)



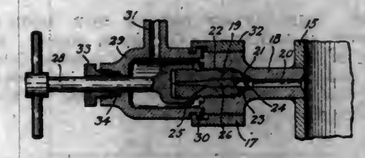
1. The combination with a mop head having a bottom strip portion, of a strip connected with said bottom strip and formed with bearing portions on opposite edges, said bearing portions being longitudinal of said strip and parallel thereto, a wire member having a transverse portion slightly spaced from the end of said strip and right angled co-extending arms at the ends of the transverse portion and extending into said bearing portions, and a rubber tube on said transverse portion.

1,750,334. LIQUID CONTAINER. LOUIS J. STERN, New York, N. Y. Filed Mar. 9, 1929. Serial No. 345,767. 4 Claims. (Cl. 220—1.)



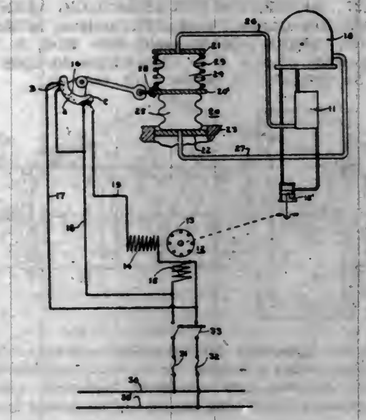
1. In a container, in combination, a beverage container, a removable receptacle closure for said beverage container, a removable cup container closure for said receptacle closure and a removable cover for said cup container closure.

1,750,335. COMBINATION FILLING AND FUSIBLE PLUG FITTING. ROBERT SETH TAYLOR, Brooklyn, N. Y., assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 21, 1927. Serial No. 185,408. 11 Claims. (Cl. 62—119.5.)



1. A combined fusible and filling plug fitting comprising a member having a passageway through the same adapted to receive a plug, a plug for said passageway, said plug and passageway having coacting surfaces forming a valve closure, said plug being formed to permit passage of fluid past the same when said plug is in some positions in said passageway but prevent passage of fluid past the same when said surfaces coact, a channel through said plug and fusible metal in said channel.

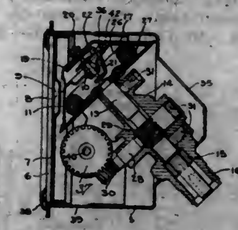
1,750,336. MOTOR-STARTING SWITCH. MATSON C. TERRY, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 15, 1925. Serial No. 43,876. 26 Claims. (Cl. 62—4.)



1. In combination with a machine embodying two chambers wherein it is desired to maintain a predetermined difference of pressure between said chambers, a motor pump device embodying an armature, a starting winding, a running winding and a pump for maintaining said pressure difference, a pressure responsive device subject to the pressures in said chambers, means for energizing said motor pump device and control means subject to movements of said pressure responsive device to energize said starting winding and operative upon excessive pressure difference to stop the energization of said motor pump device.

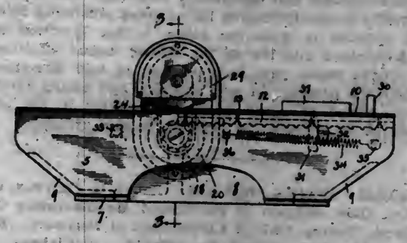
1,750,337. SPEEDOMETER. CYRIL T. WALLIS, Rochester, N. Y., assignor, by mesne assignments, to North East Appliance Corporation, Rochester, N. Y., a Corporation of New York. Filed June 28, 1926. Serial No. 119,070. 2 Claims. (Cl. 264—18.)

2. In a speedometer, the combination of a rotary indicator provided with a pivot staff, a frame-member provided with a bearing for one end of the pivot staff, and an arm provided with a bearing for the other end of the pivot staff, said arm being fixed to said frame member



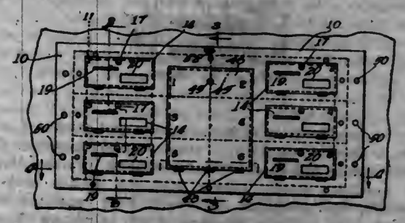
but adjustable rotatively about the axis of the pivot staff, and said arm and the indicator having cooperative engaging portions acting as stops for the indicator.

1,750,338. ENVELOPE-OPENING MACHINE. ALBERT WEISS, New York, N. Y. Filed Nov. 13, 1928. Serial No. 319,131. 5 Claims. (Cl. 164—62.)



1. An envelope opening machine comprising a supporting body and housing, a sliding carriage on said body, a gear rack carried beneath the carriage, a shaft having a pinion meshing with the gear rack, a second shaft within the housing, a pair of cooperating cutting disks mounted on the shafts in proximity to the inner edge of the carriage and meshed gears on said shafts.

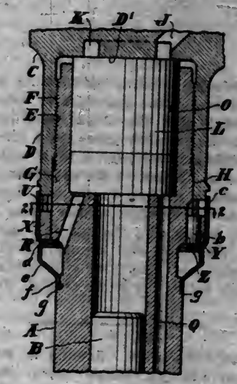
1,750,339. MAIL BOX. ANDREW C. WOOD, Chicago, Ill. Filed June 14, 1926. Serial No. 115,832. 2 Claims. (Cl. 232—24.)



1. In a device of the class described, top, bottom, and side walls and a face plate joined thereto, a rear wall, a plurality of partitions disposed within said walls to form compartments, one of said partitions being common to a plurality of compartments on each side thereof, a door disposed opposite said partition so as to give access to said compartments through adjacent corners thereof, and an individual door in said face plate for each compartment.

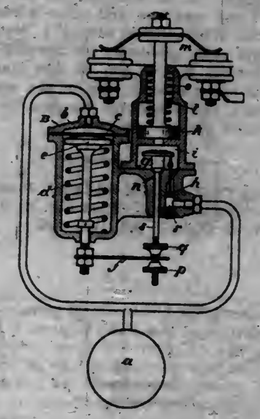
1,750,340. LOCKING DEVICE. WILLIAM FRANK ZIMMERMANN, Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 23, 1928. Serial No. 264,127. 2 Claims. (Cl. 121—36.)

1. In a pneumatic tool, the combination of a cylinder and a handle threaded on the cylinder, a plurality of longitudinal grooves in the periphery of the cylinder, an exhaust deflector embracing the cylinder, a ring on the cylinder having longitudinal grooves to register with the grooves in the cylinder, a pin inserted in a pair of registering grooves to hold the ring against rotation with respect to the cylinder, lugs on the handle and the ring lying in the same transverse plane, a cover encircling the ring,



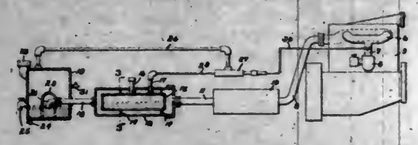
a flange on the cover interposed between the ring and the exhaust deflector, and a tension spring encircling the cylinder and having ends bearing on the lugs to tighten the connection between the handle and the cylinder, said ends being offset with respect to each other to enable the spring to exert a pressure in a longitudinal direction for holding the guard and the exhaust deflector against endwise movement on the cylinder.

1,750,341. AUTOMATIC PRESSURE-OPERATED SWITCH. ALBERT AICHELE, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Filed May 28, 1921, Serial No. 471,684, and in Switzerland June 2, 1920. 11 Claims. (Cl. 200—82.)



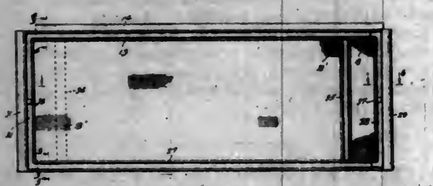
1. In apparatus of the class described, the combination with a switch operating piston and its cooperating cylinder, of an inlet valve and an outlet valve for said cylinder, the outlet valve controlling opening movement of the inlet valve and said valves being movable relative to each other, and a pressure responsive device for operating the outlet valve at critical maximum and minimum pressures.

1,750,342. CARBON-MONOXIDE CONSUMER. WELLS S. BAILEY, Detroit, Mich. Filed Feb. 29, 1928. Serial No. 257,817. 2 Claims. (Cl. 128—119.)



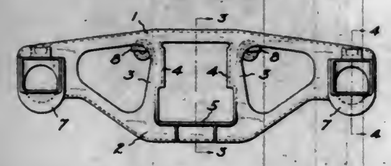
1. The combination with the intake manifold and exhaust pipe of a gasoline engine, of a main fuel supply conduit connected with the intake manifold, a chamber through which the exhaust gases pass as they are discharged from said exhaust pipe, a tank within said chamber for containing alcohol to be vaporized by heat from the exhaust, means tending to remove from the exhaust gases the products of combustion other than carbon monoxide, means for conducting the purified carbon monoxide to the intake manifold, and means for discharging the vaporized alcohol centrally into the stream of purified carbon monoxide before the latter reaches the intake manifold.

1,750,343. AUTO SCREEN. JOSEPH R. BARRY, Fairfield, Conn. Filed Jan. 12, 1929. Serial No. 332,045. 4 Claims. (Cl. 156—38.)



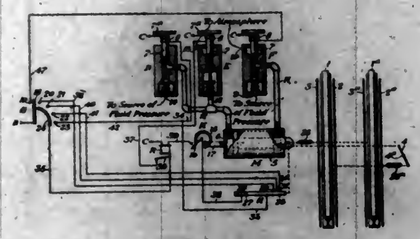
2. An automobile screen comprising two sections each including a frame, a sheet of wire screen secured in each frame, one of said frames having a longitudinal rib on its top and a vertical rib on one end bar to seat in the grooves at the top and one end of a window opening respectively, the other frame having a vertical rib to seat in the glass guide groove at the opposite end of the opening, the bottom bar of one of said frames having a groove in its under side to seat on the upper edge of the window glass, and means for securing the frames together for relative sliding movement.

1,750,344. CAR-TRUCK SIDE FRAME. JOSEPH W. BETTENDORF, Bettendorf, Iowa. Filed Feb. 23, 1928. Serial No. 256,200. 1 Claim. (Cl. 105—205.)



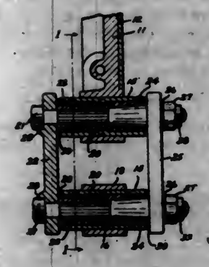
The hereindescribed cast car truck side frame member having integral bolster guides and an integral spring seat, the external surfaces of said frame member as cast being of smooth, fine grained, homogeneous surface structure free from surface imperfections, and said bolster guides and spring seat as cast being fine grained, strong and relatively hard, thereby providing efficient bearing surfaces.

1,750,345. RAILWAY BRAKING APPARATUS. HERBERT L. BONS, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed June 20, 1928. Serial No. 287,006. 15 Claims. (Cl. 303—20.)



3. Railway braking apparatus comprising a braking bar located in the trackway, a cylinder, a piston reciprocable in said cylinder and operatively connected with said bar, manually controlled means for at times admitting fluid to said cylinder to move the piston in one direction to a predetermined position in its stroke, means effective if the piston moves past such position in said direction to reduce the pressure in said cylinder, and means effective if the piston is moved past such position in the other direction to increase the pressure in said cylinder.

1,750,346. SPRING SHACKLE. RALPH H. CHILTON, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 21, 1927. Serial No. 162,649. 10 Claims. (Cl. 267—54.)

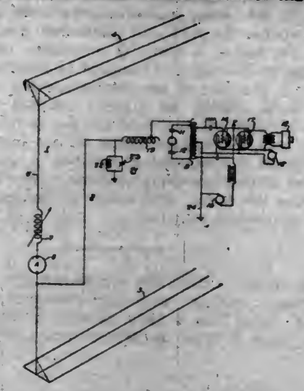


1. In combination with the spring and frame of a vehicle, a shackle comprising: transverse eye members fixed to the spring and frame respectively and located adjacent one another, elastic rubber bushings within said eye members, said bushings in non-distorted condition being shorter than said eye members, a pin extending through each of said bushings and having annular wedges thereabout, means for holding said annular wedges forced inwardly to compress the rubber bushing and to distort it to the full length of the eye member, and two side links interconnecting said pins and non-rotatably secured thereto.

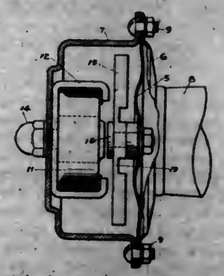
1,750,347. ANTENNA SYSTEM. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 1, 1925. Serial No. 33,903. 4 Claims. (Cl. 250—17.)

1. A radio signalling system comprising an aerial, a counterpoise, a connection therebetween comprising an inductor and a lead wire, an oscillation generating means, a transfer channel therebetween comprising a second lead wire, connected to said first mentioned lead wire and to

said generator and a lumped impedance interposed therein, and a ground connection to said transfer channel having a high impedance to the fundamental frequency of said generator, and a low impedance to all other frequencies.

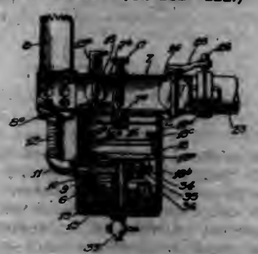


1,750,348. ELECTRIC HORN. FARNUM F. DORSEY, Rochester, N. Y., assignor, by mesne assignments, to North East Appliance Corporation, Rochester, N. Y., a Corporation of New York. Filed July 10, 1925. Serial No. 42,760. 2 Claims. (Cl. 177—7.)



1. In an electric horn, the combination, with a sonorous diaphragm and an electromagnet, of a resonantly vibratory armature attached, at its middle point only, to the middle of the diaphragm and cooperating magnetically with the magnet, the armature being relatively thick and rigid for the greater part of its length, but having limited portions of reduced thickness close to its point of attachment, whereby resonant bending of the armature is substantially restricted to the parts thereof adjacent the point of attachment.

1,750,349. CARBURETOR. ARCHIE G. DOWELL, San Diego, Calif., assignor of one-half to Fred A. Sutherland, San Diego, Calif. Filed Mar. 16, 1925. Serial No. 15,807. 5 Claims. (Cl. 261—121.)

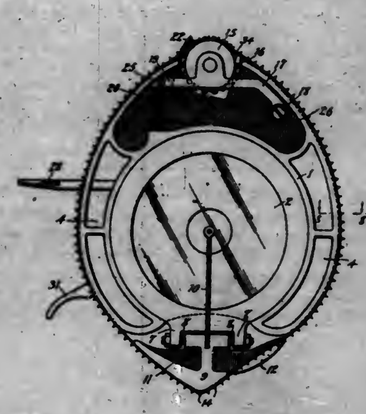


1. In a carburetor structure having a fuel receptacle means, a fuel supply conductor communicating with said fuel receptacle means and float and valve means for controlling and regulating the entrance of fuel into said fuel receptacle, an air conductor having its intake end adjacent to an exhaust manifold of a vehicle and its discharge end within said receptacle below the normal fuel level therein, a valve means mounted in said air conductor within said receptacle above the normal fuel level therein communicating from said air conductor into said receptacle for equalizing the pressure therebetween and permitting the discharge of excess air from said air conductor into said receptacle and aiding the evaporation of fuel globules suspended within said receptacle, a second air conductor connected with said first conductor and extending across the top of said receptacle, a Venturi tube integral with said second air conductor, a choke valve at the entering side of said Venturi tube, a valve controlled passage connecting said receptacle with said second air conductor approximately at the point of least pressure within said air conductor for drawing vaporized fuel from said receptacle.

1,750,350. PROCESS OF REFINING USED OIL. JOSEPH C. PATRICK, Kansas City, Mo. Filed Oct. 28, 1927. Serial No 229,534. 7 Claims. (Cl. 196—16.)

6. The method of refining used mineral lubricating oil containing water and hydrocarbon diluents which consists in heating the oil to approximately 120° F., adding sulphuric acid to the oil while hot, agitating the mixture, removing the oil from the resultant sludge, vaporizing diluents from the oil, and then adding sufficient active adsorptive reagent to clarify, decolorise and neutralize the oil, and finally separating the reagent and adsorbed impurities from the purified oil.

1,750,351. PHONOGRAPH STYLUS AND SOUND BOX. AUGUSTE E. PASCHE, New York, N. Y. Filed July 6, 1928. Serial No. 290,824. 6 Claims. (Cl. 274—25.)

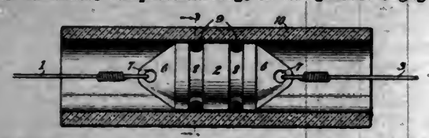


3. In a device of the character described, the combination with a sound box having a peripheral groove of a stylus-carrying band receivable in and movable through said groove in the periphery of said box, and means for tensioning said band within said groove, said means being operative to control the movement of said band through said groove.

1,750,352. ELECTRIC INSULATOR. JOHN F. PHILLIPS, New York, N. Y. Filed Mar. 31, 1928. Serial No. 266,246. 1 Claim. (Cl. 173—28.)

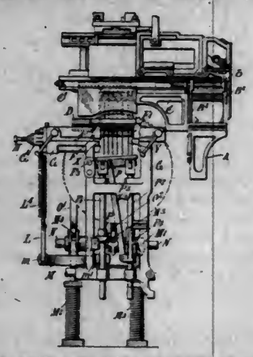
A device of the character described, including an insulator, a tubular casing open at both ends and adapted to receive the insulator and of greater length than the insula-

tor, said insulator having annular grooves around the same and removable compression rings in the grooves engaging



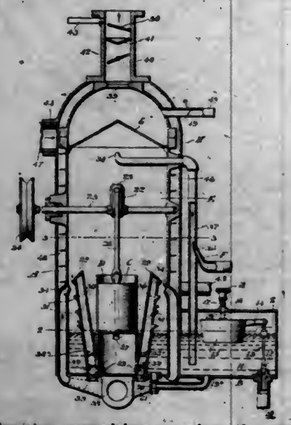
the inner face of the casing and spacing the insulator therefrom, and eyes at the ends of the insulator for the connection of wires thereto.

1,750,353. SLUG-CASTING MACHINE. EDWIN W. PIERSON, Newark, N. J., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Feb. 7, 1929. Serial No 338,131. 12 Claims. (Cl. 199—51.)



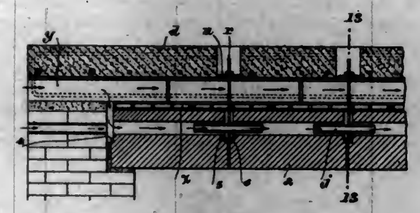
1. In a slug casting machine, the combination of a composed line of matrices and expansible spacebands, a mold for casting a slug against the line, a pair of jaws between which the line is confined in casting relation to the mold, a justification bar movable in two stages to expand the spacebands in effecting respectively a preliminary and final justification of the line, means for operating the bar, and means for causing the bar in the first stage of its operation to engage the spacebands in an inclined position and then to be straightened out in effecting the preliminary justification of the line.

1,750,354. CARBURETOR. CHARLES NELSON POGUE, Winnipeg, Manitoba, Canada, assignor to Alfred Joseph Andrews, trustee, Winnipeg, Canada. Filed Aug. 20, 1927. Serial No. 214,361. 5 Claims. (Cl. 261—36.)



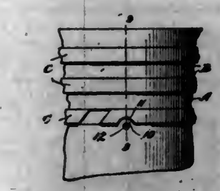
1. A carburetor comprising a casing, the upper part of which is adapted to form a vaporizing chamber, the lower part of which is adapted to contain liquid fuel, a fuel tank connected to the bottom of the casing, a float valve arranged in the same, controlling the level of liquid, a conduit between the tank and the casing, a reciprocating pump in the casing, a plurality of nozzles for the same having spaced openings and designed to discharge the fuel upwardly, a plurality of air nozzles opening adjacent to the aforesaid nozzles, an injector adapted to be connected to a supply of compressed air, and to the fuel in the aforesaid tank, a discharge nozzle for the injector in the upper part of the vaporizing chamber, a screen in the upper part of the vaporizing chamber, a heating chamber surrounding the casing, and means for passing hot gases through the heating chamber.

1,750,355. CONSTRUCTION OF FURNACE OR OVEN ARCHES. ALEXIS CONSTANT RAGOUCY, Bourgoin, France. Filed June 4, 1926, Serial No. 113,745, and in France June 9, 1925. 6 Claims. (Cl. 110—99.)



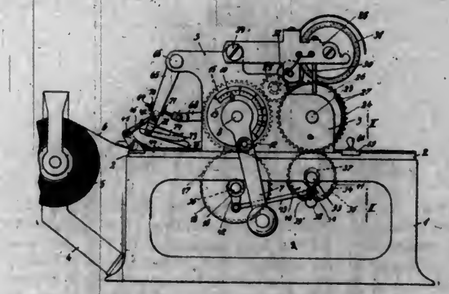
1. In a ceramic or tile furnace in combination with lateral walls, a flat slab resting on said walls and serving as a continuous stay for the arch, refractory bricks arranged in rows, forming a substantially flat roof for the oven and provided with transverse openings, suspension members depending from said slab, the lower end of each of said members being disposed at the junction of a pair of adjacent bricks of a row, and a tube carried by said suspension members and the opposite ends of which tube enter said openings of said adjacent bricks said suspension elements being each provided with a ring freely engaged on the tube.

1,750,356. PISTON AND RINGS. WILLIAM H. RAGSDALE, Silver Spring, Md. Filed Apr. 23, 1928. Serial No. 272,050. 3 Claims. (Cl. 74—109.)



1. A piston having a ring groove and including a puuch mark in such relation to an edge of the groove as to cause the portion of said edge at a place adjacent said mark to protrude outward into the groove to form an integral projection by which an expansible piston ring seated in the groove and having a notch in its edge may be anchored against movement circumferentially of the piston.

1,750,357. STRIP-FEEDING MECHANISM. LEOPOLD RAMDOR, Falkensee, Berlin, Germany. Filed Jan. 11, 1928, Serial No 246,028, and in Germany Jan. 11, 1927. 6 Claims. (Cl. 101—228.)



1. Strip feeding mechanism comprising a pair of feeding members, strip engaging projections extending over part of the effective surface of each member, means for introducing the strip between said members, means for imparting rotation to said members and means for varying the relative position of said projections.

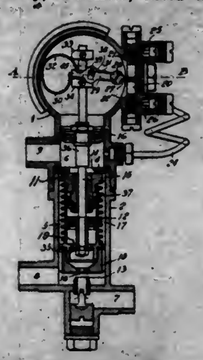
1,750,358. COLOR PHOTOGRAPHY. PIERRE ABEL RICHARD, Paris, France, assignor to La Société du Film en Couleurs Keller-Dorian, Paris, France. Filed Nov. 18, 1926, Serial No. 149,166, and in France Dec. 19, 1925. 2 Claims. (Cl. 88—16.4.)



1. In the production of motion pictures in color, the steps of photographing the objects on a moving film which is goffered on its front face with a multitude of minute lenticular projections, while subjecting the light rays to the action of a polychrome filter so as to select the colors of the rays which reach the film and thereby form images in polychrome corresponding to the colors of the filter; and thereafter reproducing the polychrome images of the goffered film on a nongoffered film while the former is illuminated, and advancing the non-goffered film, for each image-space of the goffered film, a number of image-spaces equal to the number of color values of the polychrome filter, while masking said filter in such a way as to permit the light to pass through only one of its colored elements for each image on the non-goffered film, to obtain on said non-goffered film a plurality of separate monochrome images of the polychrome image corresponding in number to the number of color values of said polychrome image.

1,750,359. PULSATOR VALVE. JOHANNES VALDEMAR MÅRTEN RISBERG and HJALMAR LINDELÖF, Soderteije, Sweden; said Lindelöf assignor to said Risberg. Filed Mar. 15, 1928, Serial No. 262,015, and in Sweden May 31, 1926. 3 Claims. (Cl. 137—139.)

1. In a pulsator-valve the combination of a piston, a relay-valve device connecting the pressure chamber at the one side of the piston alternately with admission and discharge passages for a pressure-medium, spring actuated valves movable between members shifted by the piston and admitting pressure medium to its functioning place and discharging the same, a lever-arm connected to the relay-valve device for moving the same into its operative positions respectively, a shifter, acted upon by members



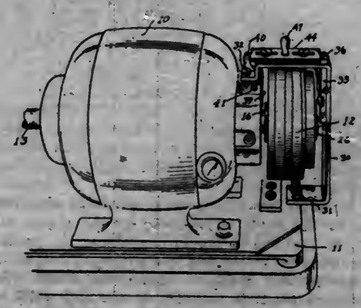
moved by the said piston, said shifter acting upon the said lever arm and throw-over springs actuating the lever-arm and shifter.

1,750,360. FOOT SUPPORT. HARRY R. ROGERS, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,662. 5 Claims. (Cl. 36—76.)



1. A shoe embodying therein an outsole, an insole, and a foot supporting device positioned between said soles, said device comprising a longitudinally arched shank fixed at the heel end to said insole and a clip also fixed to said insole and in which the front end of the shank has sliding engagement, said clip comprising a plate with a depressed bottom wall which opens through a slot at one end and an integral tongue at the other end to overhang the front end of the shank and being so positioned as to come under the arched part of the foot so that no weight is imposed thereon.

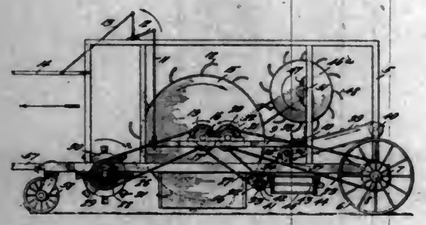
1,750,361. SPEED-ADJUSTING DEVICE FOR MOTOR GOVERNORS. SAMUEL W. ROTHERMEL, Lynbrook, N. Y., and ERNEST W. HEWITT, Stamford, Conn., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1929. Serial No. 393,008. 5 Claims. (Cl. 264—3.)



1. The combination with a motor governor having a cylindrical housing and an adjusting wheel projecting from each end thereof and revolving therewith, of operating means for said adjusting wheel comprising a spring

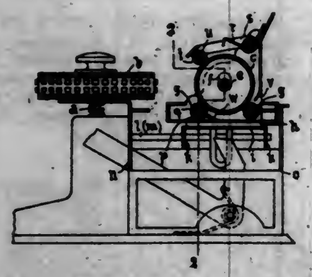
member disposed at each end of said housing normally out of contact with said adjusting wheel and a sliding member mounted to one side of said housing for moving either of said spring members into position for engagement with said adjusting wheel during its revolution with said housing.

1,750,362. POTATO HARVESTER. EDWARD SANDERS, Moorhead, Minn. Filed May 19, 1928. Serial No. 279,067. 3 Claims. (Cl. 55—59.)



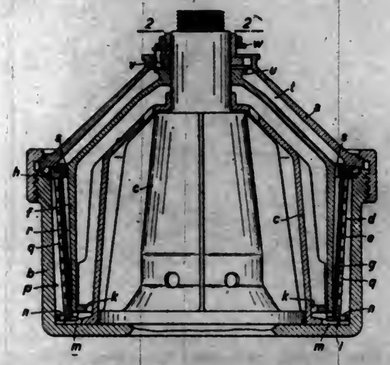
1. In a potato harvester, a frame, arms oscillatably mounted on the frame and extending approximately horizontally, bearings on the said arms, a drum rotatably mounted on the bearings, guards at the ends of the drum for confining soil in the effective zone of operation of the drum, means for moving the arms upwardly and downwardly, means for rotating the drum, teeth carried by the drum, means for dislodging clods from the teeth, means for dislodging vegetation from the teeth, a conveyer for the vegetation, a conveyer thereunder for receiving potatoes, and means for operating said movable parts.

1,750,363. PAPER CARRIAGE FOR TYPEWRITING MACHINES. MAX SCHMID, Nuremberg, Germany. Filed Jan. 15, 1929, Serial No. 332,647, and in Germany Apr. 13, 1928. 3 Claims. (Cl. 197—60.)



1. A carriage for type-writing machines in which the printing of the types is produced by the platen striking against the stationary types, comprising in combination with the machine frame and the platen, a casing for the platen having end walls, a supporting frame for said casing, transverse rods mounted in the end walls of said supporting frame said casing being shiftable on these transverse rods, and rods transversely to the axle of the platen extending through the long walls of said supporting frame so that said frame can be shifted on said latter rods.

1,750,364. SEPARATOR DRUM. AUGUST SCHMÜCKING, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 19, 1928, Serial No. 313,608, and in Germany Oct. 28, 1927. 4 Claims. (Cl. 210—76.)



1. A separator drum of the class described comprising a shell, a filter cloth carrier arranged therein, a filter cloth arranged between said carrier and said shell, tapering annular faces at the top and bottom of said carrier and corresponding counter faces on said shell, said faces being adapted to clamp said filter cloth between them.

1,750,365. RAIL. MAX SCHNEIDER, Duisburg-Ruhrort, Germany, assignor to the Firm Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Filed Feb. 15, 1929, Serial No. 340,134, and in Germany Feb. 27, 1928. 1 Claim. (Cl. 238—148.)



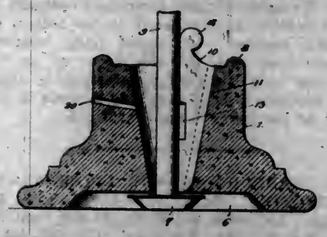
A method of manufacturing rails of rail-way- and tramway-lines, consisting in bringing insertions of special material like hard steel in form of a grate into the mould, in pressing said insertions against the walls of the mould by props, and in casting the rail around said insertions, for the purpose set forth.

1,750,366. CABINET DOOR AND MIRROR FRAME. EDWARD A. SMITH, Chicago, Ill. Filed Sept. 7, 1926. Serial No. 134,006. 1 Claim. (Cl. 45—18.)



A frame stock comprising a filler member of substantially rectangular cross section having a recessed part on one face, a one piece metallic member bent longitudinally into substantially U-cross section, with a long leg and a short leg being depressed toward the long leg below the edge of the connecting part and adapted to seat in a recess of a filler member when the latter is positioned within said metallic member and the long leg of said metallic member having an outwardly depressed marginal flange adapted to receive a shock absorbing filler, said marginal flange extending beyond the face of the filler member substantially as specified.

1,750,367. CHRISTMAS-TREE HOLDER. JAMES C. SMITH, San Francisco, Calif. Filed Dec. 31, 1927. Serial No. 243,997. 3 Claims. (Cl. 248—38.)



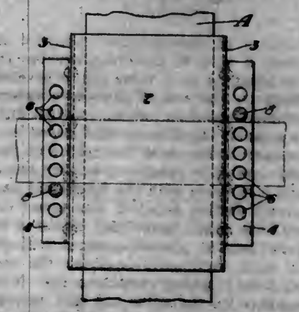
1. A Christmas tree holder comprising a body portion of molded plastic material provided with a vertical Christmas tree receiving opening and having longitudinal recesses in the walls of the opening, and a plurality of wedges slidably mounted in the said recesses and adapted to engage Christmas trees of different diameters, and provide intermediate of their ends with a recess having upper and lower walls and adapted to permit expansion of a Christmas tree within the same.

1,750,368. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. JOHN L. SMITH and FOSTER L. GUSHARD, Cedar Falls, Iowa. Filed Apr. 11, 1928. Serial No. 269,078. 2 Claims. (Cl. 123—190.)



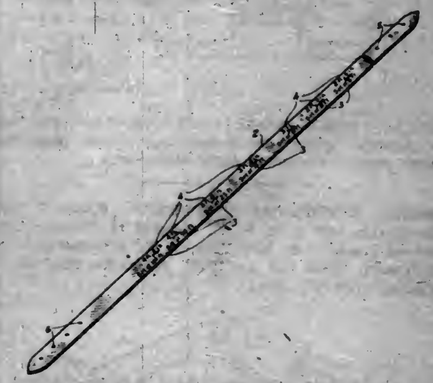
1. In an internal combustion engine, a head therefor having a hollow bearing seat with intake and exhaust ports and a third port in communication with the combustion chamber of the engine, a rotary valve in said seat and not having circumferential contact therewith, said valve having a transverse wall recess positioned to effect communications successively between the intake and exhaust ports and said third port, having also circumferential annular grooves at each side of said passage, and having longitudinal grooves between said annular grooves at each end of and opening into said wall recess, and resiliently controlled wiper devices mounted in the annular and longitudinal grooves, each of the longitudinal devices having a side flange widening its peripheral surface, said valve having passages therein in communication with a supply of liquid lubricant under pressure and leading into said annular and longitudinal grooves.

1,750,369. WORKHOLDING APPARATUS. WALTER K. SEPTER, Duquesne, Pa. Filed July 21, 1928. Serial No. 294,410. 3 Claims. (Cl. 90—59.)



1. A work holder for metal slabs and the like comprising an inverted U-shaped base member, a pair of horizontal vertically spaced flanges extending outwardly from each of the side members of said base, the flanges of each of said pairs of flanges being provided with a series of vertically alined holes, and a plurality of rods adapted to be mounted in selected ones of said holes to hold the work in a substantially vertical position.

1,750,370. CAMERA STRAP FOR MEASURING DISTANCES. PHILIP RAYNER STRAUS, Baltimore, Md. Filed June 12, 1928. Serial No. 284,804. 1 Claim. (Cl. 88—111.)

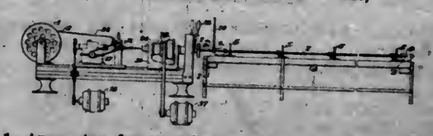


A tape for use with cameras having a short distance or portrait lens substituted for the usual lens; said tape having graduations thereon to indicate distances of a subject from a camera and having legends at each graduation to indicate the scale setting of the lens relative to the usual camera focusing scale to correspond to the said graduation.

1,750,371. COMPOSITION OF MATTER FOR COLORING FLAMES. HERBERT GILES TANNER, Eugene, Oreg. Filed June 1, 1925. Serial No. 34,229. 18 Claims. (Cl. 52—23.)

3. A pyrotechnic article of manufacture comprising flame colorant fashioned into a coherent mass which is non-flammable and as a whole non-combustible.

1,750,372. APPARATUS FOR MAKING CAPILLARY TUBES. KENNETH L. TATE, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Mar. 19, 1929. Serial No. 348,844. 20 Claims. (Cl. 140—71.)

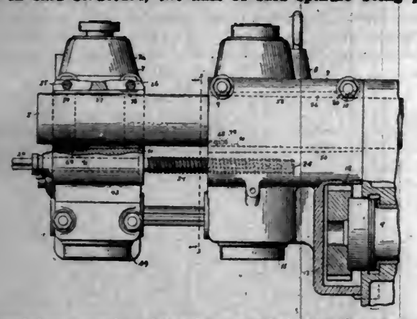


1. Apparatus for entering a wire into a flexible tube, comprising means defining a plurality of aligned bearings constructed and arranged to maintain the flexible tube in a substantially straight line and free to be rotated, means for rotating the tube and means for continuously feeding the wire into the tube.

1,750,373. ATTACHMENT FOR MACHINE TOOLS. THEODORE TRECKER and JOSEPH B. ARMITAGE, Milwaukee, Wis., assignors to Kearney & Trecker Corporation, West Allis, Wis. Filed Aug. 20, 1925. Serial No. 51,316. 16 Claims. (Cl. 90—16.)

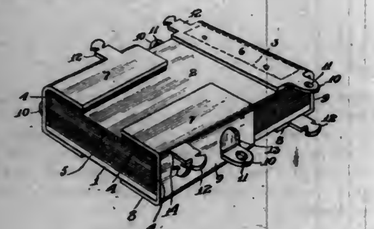
1. In an attachment for machine tools having a plurality of horizontal overarms spaced apart the combination of a structure mounted on and entirely supported

from said overarms and a vertical spindle rotatably mounted in said structure, the axis of said spindle being posi-



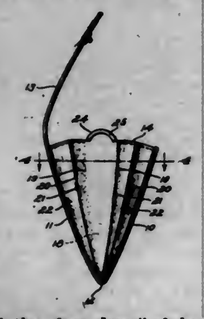
tioned for a portion thereof to pass between the overarms, whereby said spindle has substantially equal resistance against pivoted movement about either arm.

1,750,374. ELECTRICAL CONDENSER. HARRY R. VAN DEVENTER, New York, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 14, 1924. Serial No. 692,785. 2 Claims. (Cl. 175—41.)



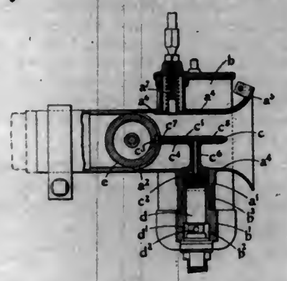
1. A condenser comprising a base plate, sheets of conductive material separated by a dielectric, one of said sheets extending across the end of another, said other sheet projecting a material distance beyond one side of the first sheet, said first sheet having one or both its extremities projecting beyond the adjacent side edge or edges of said other sheet, a clip extending across one end of the condenser and engaging the base plate and the adjacent extremity of said other sheet, and separate clips extending along the opposite sides of the condenser towards the other end, said last named clips engaging the base plate and the ends of the first sheet, whereby the said sheets and said base plate are held firmly together.

1,750,375. BAG GUSSET. ANTHONY M. VINCIGUERA, Brooklyn, N. Y. Filed May 28, 1927. Serial No. 194,962. 3 Claims. (Cl. 150—30.)



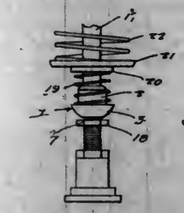
1. A bag of the class described having the combination of side sections, and gussets joining the opposite ends of said side sections to define a pocket, said gussets allowing said side sections to be moved toward and away from each other, each gusset having a non-foldable substantially V-shaped member positioned centrally thereof, and which extends approximately to the bottom juncture of said side sections, each gusset being foldable along lines coincidental with the side edges of its V-shaped member, and both V-shaped members being cooperative with the opposite ends of said side sections to limit the movement of the latter toward each other.

1,750,376. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. HENRY WESLAKE, London, England. Filed Sept. 19, 1925, Serial No. 57,406, and in Great Britain Aug. 4, 1925. 5 Claims. (Cl. 261—62.)



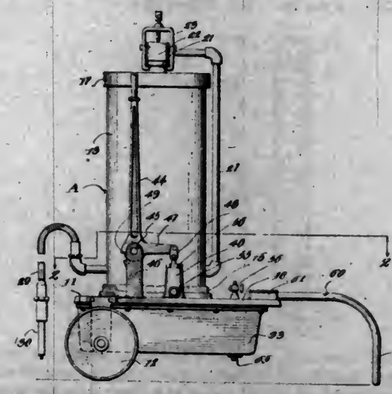
1. A carburetor comprising in combination a mixing tube substantially horizontally disposed, a transversely disposed throttle valve provided in the said mixing tube, a nozzle disposed within the said mixing tube, said nozzle being substantially horizontally disposed with its outlet end adjacent the periphery of the said throttle valve, in a plane parallel with the axis of the said throttle valve, said nozzle being adapted for the passage through it of the volatile liquid fuel, and having at its upper part adjacent its outlet end only air admission apertures which extend to within the interior of the said nozzle adjacent the outlet end, substantially as described.

1,750,377. VALVE SILENCER. ALBERT WIDMAN, Newcastle, Ind. Filed May 23, 1928. Serial No. 279,991. 1 Claim. (Cl. 123—90.)



A valve silencer of the character described comprising a sleeve having a bore of uniform diameter throughout adapted to be mounted on a valve rod, a beveled annular retaining flange on one end of the sleeve extending into the bore, a rounded head on one end portion of the sleeve providing an annular shoulder on said sleeve intermediate its ends, the outer surfaces of the head and flange being concentrically curved, a compressible plug having a convex upper end concentric with the flange and head and an inwardly beveled portion adjacent said upper end for engagement with the flange, detachably mounted in the bore and having its beveled portion engaged with the flange and its side wall frictionally engaging the wall of the bore, an expansible spring encircling the sleeve having one end supported on the valve rod and its opposite end impinged against the shoulder for urging the sleeve longitudinally on said rod.

1,750,378. GREASE GUN. KNIGHT N. WILLMORE, Fairfax, Okla. Filed May 25, 1929. Serial No. 366,056. 6 Claims. (Cl. 221—47.1.)



1. A lubricating device comprising a base plate, ground wheels carried by the base plate, a reservoir tank secured to the lower face of the base plate, a cylinder head formed on the base plate, a cylinder for receiving a lubricant connected with the cylinder head, a removable head carried by the upper end of the cylinder having a lubricant outlet, a piston slidably mounted in the cylinder, and a pump carried by the base plate and communicating with the lower end of the cylinder below the piston and with the reservoir for forcing a liquid from the reservoir into the cylinder.

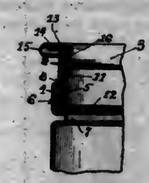
1,750,379. FOLDING UMBRELLA. STANLEY AKRIGG, Dryburg, Mich. Filed Apr. 9, 1928. Serial No. 268,535. 14 Claims. (Cl. 135—26.)



1. In a folding umbrella, a stock formed of telescopically collapsible sections, ribs formed of collapsible sections, means to connect the ribs to the stock, and means actuated by a longitudinal pull on the stock to adjust all collapsible sections to their operative positions.

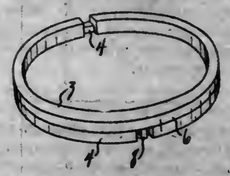
1,750,380. EASY-OPENING CONTAINER. CHARLES J. AULBACH and WILLIAM F. PUNTE, Passaic, N. J., assignors to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 26, 1929. Serial No. 350,027. 4 Claims. (Cl. 220—53.)

1. A container comprising a body portion having score lines adjacent one end thereof forming a rip strip, a container end double seamed to said body portion and a collar located within the body and permanently attached to the



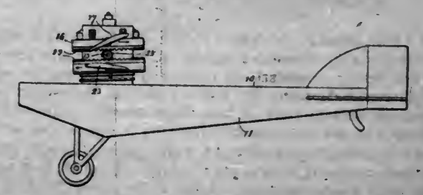
container end and body above the upper score line and adapted to enter the body for reclosure after the rip strip is removed.

1,750,381. PISTON RING. WILLIAM S. BAKER, Fort Worth, Tex., assignor to Illinois Piston and Ring Company, Fort Worth, Tex., a Corporation of Illinois. Filed July 26, 1927. Serial No. 208,510. 3 Claims. (Cl. 74—109.)



1. Piston packing comprising an open ring member having a flange at the top edge projecting radially outward and providing a packing or pressure surface on the top thereof, an open ring member mounted on the exterior of said inner member and having the outer surface thereof flush with the outer surface of said flange and having the bottom edge thereof flush with the bottom edge of said inner member, both members being automatically expansible, and a stop integral with the outer surface of said inner ring and with said flange and projecting between the ends of said outer ring.

1,750,382. PROPELLING DEVICE. WESTINUS BOER, Groton, Conn. Filed Dec. 27, 1928. Serial No. 328,788. 2 Claims. (Cl. 244—19.)



1. The combination in a craft of the class set forth, of a supporting body, a stator on said body, upper and lower rotors on said stator, each rotor having wings extending laterally therefrom and disposed diametrically opposite each other, each wing being turnable on its own axis, means to rotate said rotors in opposite directions to cause the wings on one rotor to revolve opposite to those on the other rotor, and means to impart turning movement to each wing on its own axis, to change the angle of incidence thereof, twice during each revolution of the related rotor.

1,750,383. REFLECTOR WATER GAUGE. RAOUL BOIZARD, Paris, France. Filed May 21, 1927, Serial No. 193,288, and in France Jan. 14, 1927. 2 Claims. (Cl. 73—54.)

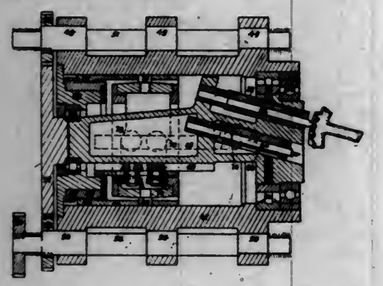
1. A reflector water gauge for boilers and the like, comprising a hollow casing having a sight opening in its front wall; a reflector glass disposed within the casing

directly behind said opening; a fluid container in said casing directly behind said glass, a longitudinal series of independently-adjustable tightening members mounted in the rear wall of the casing; and a structurally-separate spring



individual to each tightening member to be tensioned thereby and interposed between the same and the rear wall of the fluid container, said springs acting to overcome the internal steam pressure in said container, and to maintain tightness of the joints.

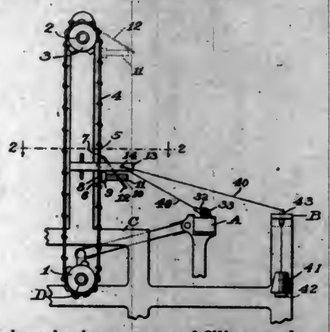
1,750,384. METHOD OF AND APPARATUS FOR CUTTING TOOTHED GEARS. PAUL BÖTTCHER, Jr., Altona-Bahrenfeld, near Hamburg, Germany. Filed Mar. 18, 1927, Serial No. 176,452, and in Germany Mar. 20, 1926. 23 Claims. (Cl. 90—4.)



1. A method of cutting helical, spiral, double helical, herringbone or other cylindrical and bevel gears having curved teeth, consisting in imparting to the cutter edge which generates the tooth blank a cutting movement in a plane parallel to that of imaginary master teeth and in addition to said movement imparting a component movement to said cutting edge at right angles to said plane for the purpose of influencing the depth of the tooth spaces, said component movement of the cutter being relative to the cutter head and in the longitudinal direction of said edge when variable tooth space depths with correctly shaped teeth are to be cut.

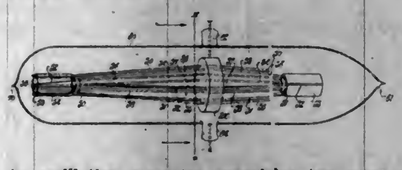
14. Apparatus for cutting helical, spiral, double helical (herringbone) or other cylindrical and bevel wheels with in alignment with the rotational axis of said cutter holder, mounted to rotate and move axially in said cutter head, a cutter mounted in said cutter holder with its cutting edge in alignment with the rotational axis of said cutter holder, means for imparting a rotary movement to said cutter holder, means for imparting an axial movement to said cutter holder, said means for imparting said axial movement to said cutter holder comprising a rail guided in said cutter head at right angles to the plane of imaginary master teeth, and engaging in an annular groove formed in said cutter holder and a controlling member for said rail, said controlling member comprising a circular ring mounted for adjustment about a diameter thereof, said ring having a rise to impart a return movement to said cutter on completion of each cut.

1,750,385. LOOM. JOHN C. BROOKS, Paterson, N. J., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 18, 1927. Serial No. 205,506. 4 Claims. (Cl. 139—122.)



1. In a loom having a source of filling supply and means to insert lengths of filling in the shed, the combination with a sprocket chain, of upper and lower sprocket wheels over which it passes, means on the sprocket chain to engage said filling thread between the filling-inserting means and the source of supply and draw off a length of filling thread, and means on the chain and rendered operative as the chain passes over the upper sprocket wheel to disengage said filling thread from the pulling-off means.

1,750,386. SPACE-CURRENT DEVICE. WALTER JOHN BROWN, Brooklands, England. Filed Dec. 18, 1926, Serial No. 155,734, and in Great Britain Dec. 23, 1925. 13 Claims. (Cl. 250—27.5.)



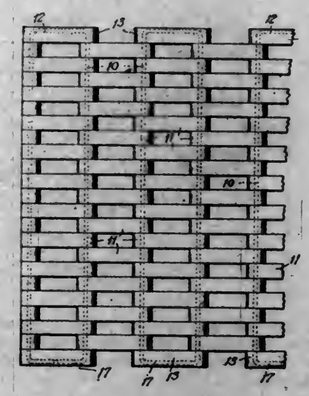
1. An oscillation generator comprising two space current units within a single envelope and conductors, also within the envelope, connecting corresponding electrodes of the two space current units and forming a complete oscillatory circuit therewith.

1,750,387. PLANT AND FLOWER SUPPORT. JACOB J. BURKHARTZMEYER, Rochester, N. Y. Filed Dec. 31, 1926. Serial No. 158,346. 1 Claim. (Cl. 47—45.)



A plant support comprising corner supporting rods, lower supporting eyes formed directly on and offset from said rods intermediate the ends thereof, upper supporting eyes formed directly on said rods at the upper terminals thereof, upper and lower sets of longitudinal and transverse connecting rods having eyes formed on the terminals thereof engaging the upper and lower eyes on said supporting rods, the connecting rods having bight portions formed therein intermediate their ends, and transverse and longitudinal cross rods having eyes formed on the terminals thereof engaging the bight portions.

1,750,388. LINK MAT. JOHN H. CALDWELL, Twin Falls, Idaho. Filed May 31, 1928. Serial No. 281,791. 2 Claims. (Cl. 20—74.)



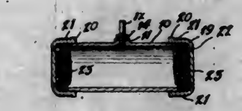
1. In a mat structure, a frame comprising a plurality of parallel rods, each pair of rods formed of a single strand bent to substantially U-shape with its free ends bent inwardly toward each other, body members connecting the several rods and hingedly connecting the adjacent rods of the several pairs, end members having longitudinally disposed bores wholly within the same to enclose the bight portions of said pairs of rods and the bent ends thereof, and said end members having lateral openings near their ends communicating with said bores and through which the adjacent portions of said rods pass; said end members being of flexible material and of the same size as said body members so as to be capable of being flexed around angular portions of said rods.

1,750,389. FILLING-STATION MACHINE. CALVIN F. CHRISTOPHER, Canton, N. C. Filed Sept. 28, 1928. Serial No. 309,079. 1 Claim. (Cl. 40—63.)



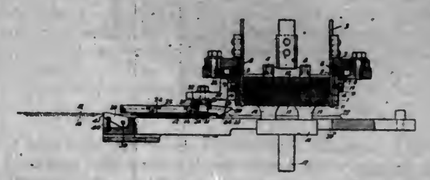
In a machine of the class described, a vertical support provided at its upper end with an angle, and at its lower end with an angle, the angles being arranged symmetrically with respect to the longitudinal axis of the support, the support being provided at a point near to its upper end with a compartment, and at a point near its lower end with a compartment, there being a space between the compartments, closures for the rear of the compartments, pivot elements connecting the upper ends of the closures to the support, whereby the closures will tend to swing downwardly by gravity to closed position with respect to the compartments when the support is vertically disposed, and mechanism for aiding an operator to set the support in a vertical position, said mechanism comprising an index located on the front side of the support, in said space, the index extending along a line joining the aforesaid angles of the support.

1,750,390. DEEP-METAL REFINER. WILLIAM M. CONNOR, Baltimore, Md., assignor to American Tin Company, Inc., Baltimore, Md., a Corporation. Filed Feb. 12, 1929. Serial No. 339,416. 2 Claims. (Cl. 266—34.)



1. A device of the character described comprising a tubular body portion, a handle member secured thereto, said body portion being adapted to receive a fluid, and having an inlet opening, means to close said inlet opening, perforated caps secured to the ends of said tubular body portion, and wads of fibrous material arranged in said caps and adapted to impede the flow of liquid therefrom.

1,750,391. CAN-END-FEEDING MECHANISM. JOHN COYLE, Baltimore, Md., and WALTER PLUMB, Jersey City, N. J., assignors to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed June 5, 1928. Serial No. 282,972. 18 Claims. (Cl. 113—114.)

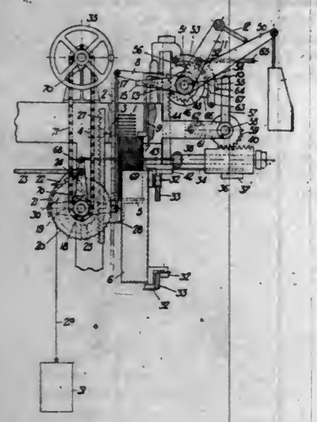


1. A feeding mechanism for non-circular can ends including a stack holder, suction means for withdrawing the ends one at a time from the stack, movable fingers for supporting the can ends in the stack, and a spring means for urging each finger toward the stack.

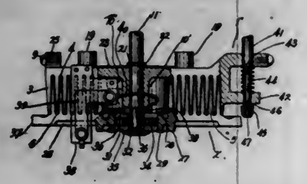
1,750,392. DEVICE FOR COLLECTING FINISHED MATCHES FROM MATCH-MAKING MACHINES. PAUL WILHELM DIETMANN, Jonkoping, Sweden, assignor to Aktiebolaget Siefrert & Fornander, Kalmar, Sweden. Filed June 9, 1928, Serial No. 284,169, and in Sweden July 22, 1927. 5 Claims. (Cl. 226—10.)

1. In an automatic match-making machine having an endless splint carrier to support rows of splints in spaced relation to each other and means for ejecting the finished matches directly into collecting boxes to collect them into piles, the combination with vertically movable pile supports in said boxes, of a mechanism to lower said supports, a feeling member to control the operation of said mechanism, and means to move said feeling member down into contact with the top surface of said piles at intervals and

let it come to stop when touching said top surface, thereby to regulate the lowering of said supports so as automatically to maintain the variation of the level of said top surface within definite limits irrespective of the thickness and percentage of filling of the matches.



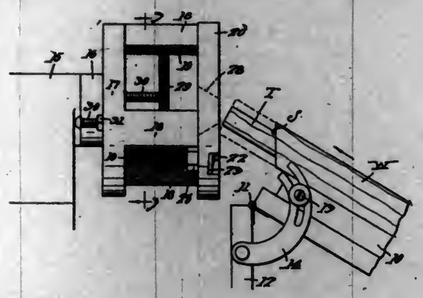
1,750,393. VARIABLE CONDENSER. WILLIAM DUBILIER, New York, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed May 12, 1925. Serial No. 29,783. 5 Claims. (Cl. 175—41.5.)



1. A condenser comprising a stator having a head from one face of which semi-cylindrical armatures project, said armatures being separated by recesses, a rotor comprising a similar head from the face of which substantially similar armatures project into the recesses of the armatures on the stator, the stator having a central bearing, a shaft extending through said bearing, the rotor having a central opening with an inside collar, projections extending in opposite directions disposed at points around the inner edge of the collar, discs of insulation on both sides of said collar receiving said projections, and held in place thereby, a hub having a flange at one end passing through said discs, a washer on said hub between the said discs, and a washer on the other end of said hub and secured by the expanded end of said hub against the face of the adjacent disc, said shaft having a reduced end with a shoulder upon which said hub is secured, a piece of insulation secured on the stator, a contact piece on said piece of insulation, and a flexible insulated conductor connecting the said contact piece to said rotor.

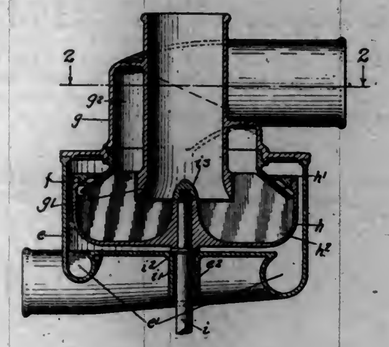
1,750,394. TENONING CUTTER HEAD. JOSEPH DUMONT, Gardner, Mass. Filed July 1, 1929. Serial No. 375,044. 5 Claims. (Cl. 144—205.)

1. As an article of manufacture, a rotary cutter head for forming tenons, comprising a face plate having a plurality of grooves therein, cutting knives secured in said grooves, said face plate having a central perforation flared backwardly from the front face of the plate and means for



supporting the work in a position at an angle to the axis of the cutter, whereby the work can be moved in its own plane into and through said central perforation, for the purposes described.

1,750,395. CENTRIFUGAL STEAM SEPARATOR. JAMES EDWIN ELLOR, Derby, England, assignor to Rolls Royce Limited, Derby, England. Filed Apr. 1, 1929, Serial No. 351,724, and in Great Britain Mar. 8, 1928. 2 Claims. (Cl. 233—21.)

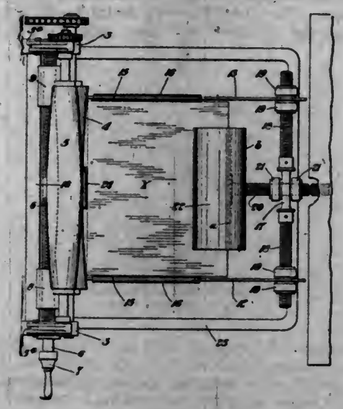


1. An apparatus for the separation of mixed water and steam, comprising a casing, a rotary basin in said casing, spaced therefrom and provided with radial blades, a chimney rising from said basin for the escape therefrom of separated steam, a volute conduit leading to said basin for the passage of mixed water and steam, and an outlet conduit for the water from said basin, located below the latter, the basin having a contracted oulet at its upper edge to form a water seal, and constructed and adapted to cause the water to escape therefrom by overflowing the edge thereof.

1,750,396. PILING AND PACKING APPARATUS. ARCHIBALD D. EVANS and JAMES K. LAMOREE, New Castle, Pa., assignors to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 28, 1927. Serial No. 222,680. 5 Claims. (Cl. 271—86.)

1. In a sheet mill apparatus, means for feeding sheets and plates out over a support, and a stop for limiting the movement of said sheets and plates and for causing said sheets and plates to descend by gravity in an orderly manner forming a pile, said stop comprising a wall member having a straight vertical pile forming portion and a curved guide portion, said curved guide portion being bent

forwardly from the upper end of said vertical portion in the direction of travel of said sheets and plates and then rearwardly and upwardly, said curved guide portion being



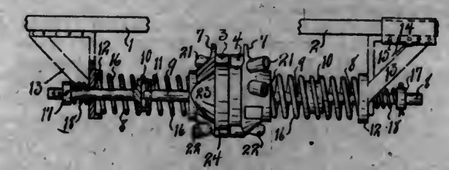
adapted to engage the forward ends of the plates and sheets and direct said sheets and plates downwardly toward said support.

1,750,397. RUSSIAN BOOT. GEORG FAULSTICH, Cassel, Germany. Filed Mar. 9, 1928, Serial No. 260,407, and in Germany Mar. 17, 1927. 2 Claims. (Cl. 36—51.)



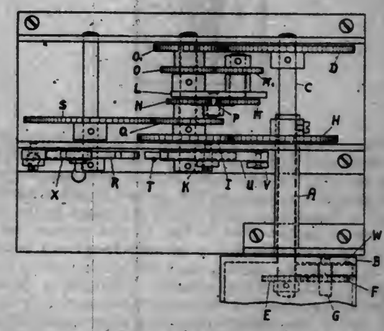
1. In a Russion boot the formation of the front portion of the leather of the leg portion to form a number of deep undulating folds lying close together tapering in downward direction and extending from top to bottom of the leg and a backing of elastic webbing on the folded portion of the leather sewn on the undulations at the lower end of said folds.

1,750,398. TRAIN AIR AND STEAM LINE COUPLER. JOHN L. FRANCIS, Fort Worth, Tex. Filed July 21, 1928. Serial No. 294,466. 4 Claims. (Cl. 285—24.)



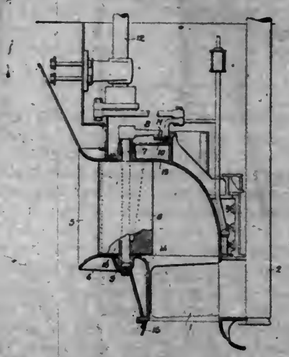
1. Air and steam line couplers comprising two heads provided with openings therethrough for the passage of steam and air, the openings of one head adapted to register with the openings of the other head, means in and on said heads for causing said openings to register, means for directing air and steam through said openings, means for suspending said couplers from drawheads of car couplers including hangers rigidly connected to the drawbars of car couplers, plungers composed of members rigidly connected to said air and steam line couplers and members adjustably connected to said rigid members and projecting through said hangers and movable freely therein, means on the ends of said adjustable members for permitting limited motion in uncoupling operations and shock absorbing means mounted on said plungers for protecting the meeting faces of said air and steam line couplers.

1,750,399. FRANKING MACHINE. WILHELM FRIEDRICHS, Berlin, Germany. Original application filed Aug. 8, 1922, Serial No. 580,450. Divided and this application filed Dec. 22, 1928. Serial No. 327,907. 2 Claims. (Cl. 101—91.)



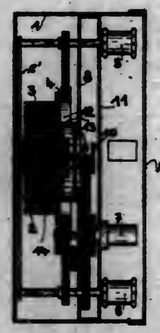
1. In a printing device, a rotatable drum, a type carrier adjustably mounted in said drum, a gear for rotating said drum, a gear for adjusting said type carrier in said drum, a setting mechanism, means for locking said setting mechanism, and a planet gear connecting said drum rotating gear and said setting mechanism to said type carrier adjusting gear, the arrangement being such that said type carrier is freely adjustable by said setting mechanism, while the turning of said drum rotating gear causes the simultaneous rotation of said type carrier adjusting gear to maintain said type carrier in a fixed relation to said drum.

1,750,400. WICKET GATE FOR HYDRAULIC TURBINES. EUGENE U. GIBBS and GEORGE A. JESSOP, York, Pa. Filed Apr. 7, 1928. Serial No. 268,229. 15 Claims. (Cl. 253—122.)



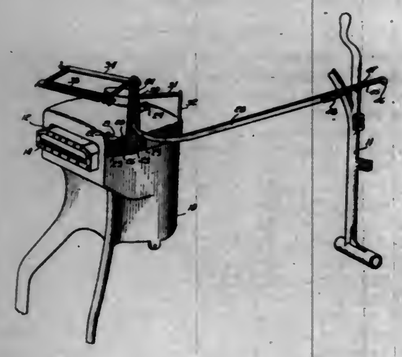
1. A wicket gate for turbines decreasing in thickness downwardly over a substantial part of the gate and increasing the volume of water passing between the gates.

1,750,401. CINEMATOGRAPH CAMERA WITH CLOCKWORK DRIVING MECHANISM. EMANUEL GOLDBERG and OTTO FISCHER, Dresden, Germany, assignors to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Filed Dec. 29, 1927, Serial No. 243,420, and in Germany Feb. 16, 1927. 3 Claims. (Cl. 88—17.)



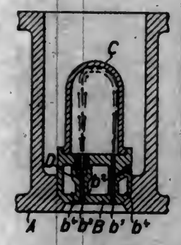
1. In a cinematographic camera, a casing, an inner and outer wall arranged in spaced parallel relation within the casing and subdividing the latter into three compartments, the inner wall having a portion thereof struck inwardly to provide a chamber, a spring motor arranged in the innermost compartment of the casing, a rigid support for said motor mounted transversely of said innermost compartment and extending within the chamber formed in the inner wall, a centrifugal speed relator arranged in the intermediate compartment of the casing and carried by the extended end of said motor supporting shaft and paralleling said spring motor, and film driving means arranged in the outermost compartment of the casing and being operatively connected to said spring motor and centrifugal speed regulator.

1,750,402. MOUTH WIPER. HENRY G. GUIER and ALBIN L. CHALFONTE, Trenton, N. J. Filed Sept. 13, 1928. Serial No. 305,790. 6 Claims. (Cl. 199—62.)



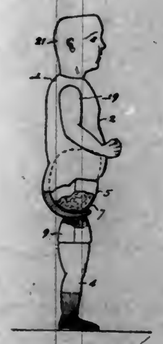
1. A device of the character described comprising a base mounted upon the metal pot, an arm pivotally carried thereby, a wiping member carried by said arm, spring means for normally retaining said arm in raised position, and means for moving said arm, said means including a rearwardly extending operating link movable in response to movement of an ejector lever, said link and ejector lever having a lost motion connection.

1,750,408. DEVICE FOR OPERATING INTERNAL-COMBUSTION ENGINES WITH AN IGNITION CHAMBER. ERNST HERRT, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Filed Aug. 28, 1925, Serial No. 53,158, and in Germany Oct. 27, 1924. 4 Claims. (Cl. 123—33.)



1. In combination with an internal combustion engine of the character described, comprising a cylinder and an ignition chamber on said cylinder, a constantly open ignition channel and an air channel between the ignition chamber and the cylinder, a fuel supply duct terminating in said ignition channel and a freely movable check valve in the air channel adapted to open toward the ignition chamber.

1,750,404. DOLL. LOUIS HERMAN, Brooklyn, N. Y. Filed Mar. 30, 1927. Serial No. 179,541. 4 Claims. (Cl. 46—40.)



4. In a doll, a main body or trunk comprising a casing having a hard outer wall, a portion of the bottom wall being cut away providing an opening extending into the casing, leg members and a lower body portion secured to said leg member, the said lower body portion being formed to interlock with the walls of the casing and to be secured therein by said bottom wall.

1,750,405. WELL-SHOOTING DEVICE. JESSE J. HILL, Independence, Kans. Filed Oct. 13, 1927. Serial No. 225,973. 1 Claim. (Cl. 102—4.)

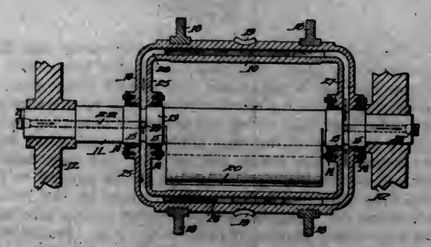
In combination with an outer shell adapted to contain a suitable shattering charge, a device for exploding said charge embedded in said shattering charge and comprising, an upper casing, an intermediate sleeve section having a restricted opening, and a cap connected with said section and having an opening aligning with the opening of said section, an acid container in the upper casing having a depending spout of reduced diameter disposed in the restricted opening of the sleeve or section, a tubular firing

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device fitting in said cap with its upper end contiguous to the lower end of the spout of the container, and a cap or cover for protecting the firing device.

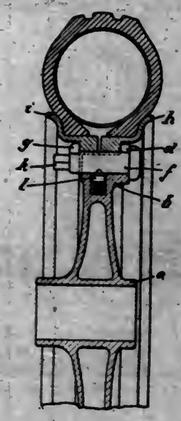
1,750,406. WATER-COOLED PLATE-FINISHING MACHINE. JOHN A. ISBELL, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed July 6, 1927. Serial No. 203,728. 3 Claims. (Cl. 29—21.)



1. In a stereotype plate shaving machine, the combination with a stationary shaft having a stationary shaving blade thereon, said shaft having a pair of hubs, each having a port therein, and the shaft being provided with means for introducing water in the interior of one of the hubs and discharging it from the interior of the other, of a cylinder rotatably mounted on said hubs, means on the outer peripheral surface of the cylinder for rotating the cylinder, said cylinder having a pair of hollow arms at each end contacting with the hubs, each pair of arms being open to communicate with the port of the hub at that end and the walls of the cylinder being hollow to receive water through the arms, said arms being located at an inclination to permit the introduction and discharge of a curved stereotype printing plate endwise.

1,750,407. WHEEL. FRITZ KOPP, Ulm-on-the-Donau, Germany. Filed Jan. 18, 1929, Serial No. 333,303, and in Germany Dec. 7, 1925. 1 Claim. (Cl. 152—21.)

A vehicle wheel of the class described having in combination, a felly portion provided with a transverse opening having a reduced vertical portion extending to the outer edge of the felly portion and a circumferentially disposed flange, a locking bolt having a cylindrical stem arranged to be revolubly mounted in said opening and normally prevented from removal therefrom, said bolt having an enlarged head at one end arranged to abut said flange and a lug adjacent the opposite end, said lug adapted to register with the reduced portion of said opening for permitting the insertion or removal of the bolt from the wheel, a rim comprising circumferential sections mounted on said wheel, said sections having inwardly extending portions



arranged to be confined between said flange and said lug, means on said sections engaging the outer surface of said bolt for preventing movement of the rim relative to the wheel, and yieldable means for preventing rotation of the bolt when the parts are in operative position.

1,750,408. CUSHION WHEEL. ALEX A. KOHN, Chicago, Ill., assignor to Morand Cushion Wheel Co., Chicago, Ill., a Corporation of Illinois. Filed May 24, 1928. Serial No. 280,181. 2 Claims. (Cl. 295—11.)

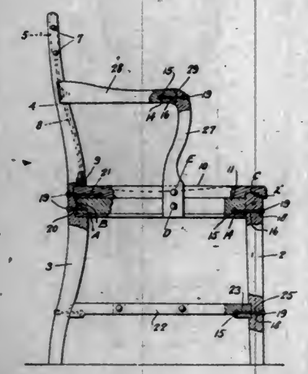


1. A cushion wheel construction comprising; an inner annular channel-form rim and an outer annular channel-form rim, said rims being separated by an annular space and having their flanges extending toward each other, the edges of the flanges of one rim having opposed bevels and the adjacent edges of the flanges of the other rim having complemental bevels to cause interlocking of said flanges upon movement of one rim towards the other; and an interposed cushion element in the annular space between said rims.

1,750,409. CHAIR CONSTRUCTION. EDWARD KOVAC, Jr., New York, N. Y. Filed Mar. 10, 1928. Serial No. 260,624. 1 Claim. (Cl. 155—106.)

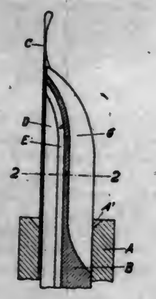
As a new article of manufacture, a chair including front and rear legs, said rear legs being recessed at their upper end portions, horizontal shoulders in the recesses, a supporting frame supported, at its rear end, in the recesses and having its upper face in the horizontal plane of the shoulders therein, means for detachably securing the frame therein, said frame having its forward end in abutting engagement with the side of the front legs adjacent the upper ends thereof and detachably secured thereto, tenons on the upper ends of the front legs, a seat mounted on the frame and extending into the recesses in the rear legs and mounted on the shoulders therein, means for detachably securing the seat therein, said seat extending over

the upper ends of the front legs and being provided adjacent its front ends, with sockets in its bottom face for the reception of the tenons, a back rest extending upwardly from the rear legs, vertical posts on the outer sides of the frame and the seat and extending upwardly therefrom, securing elements extending transversely through



the lower end portions of the posts and into said frame and seat and constituting means for detachably supporting the posts thereon and for detachably maintaining the forward portion of the seat on the frame and the front legs, and arm rests extending between the upper ends of the posts and the back rest.

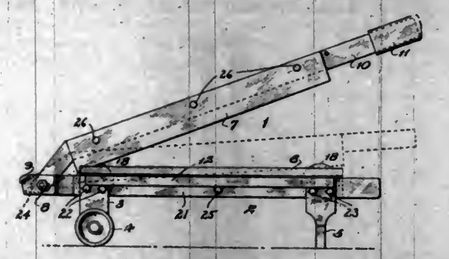
1,750,410. RESERVOIR PEN. THEODOR KOVACS, Hanover, Germany. Filed Apr. 6, 1929, Serial No. 353,027, and in Germany Apr. 11, 1928. 11 Claims. (Cl. 120—50.)



1. A reservoir pen comprising a feed bar below the nib formed with an air supply channel, capillary grooves at the bottom of said channel and a longitudinal groove in the side remote from said nib and in that part which projects from the barrel of said reservoir pen, and a connection between the front end of said groove and the conduit supplying from the reservoir of said pen to the point of said nib.

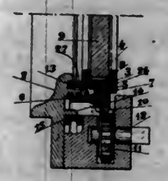
1,750,411. UTILITY SHEAR. DUCLISE J. LA BAUVE, Lake Charles, La. Filed May 8, 1928. Serial No. 276,084. 4 Claims. (Cl. 164—44.)

1. A shearing machine comprising a stationary blade carrying bar, a movable blade carrying bar pivoted at one end to the stationary bar, means at the pivoted end portions of said bars for limiting the movement of said mov-



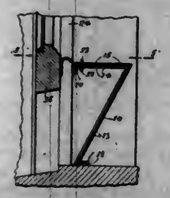
able bar, a work supporting table fixed to the stationary bar at one side thereof, and work receiving members extending from the opposite side of said bar.

1,750,412. SCUTTLE PORT AND LIKE TIGHT-CLOSED WINDOW. LOUIS LALANNE, Marseille, France. Filed Nov. 28, 1928, Serial No. 322,369, and in France Feb. 15, 1928. 4 Claims. (Cl. 114—177.)



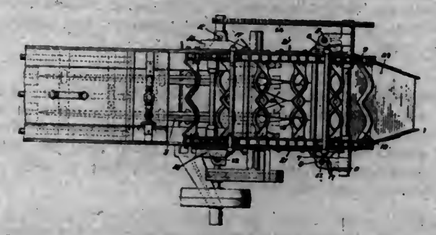
1. In a controlling device for scuttle ports and like tight closed windows the combination of a frame with a circular opening, a watertight ring in said frame next to the opening, a movable circular pane holder resting against said watertight ring, a flat uninterrupted detaching collar fixed to the back of the pane holder, a second collar situated nearer to the frame and fixed to said pane holder, both collars forming together a ring groove parallel to the watertight ring, projecting means carried by the frame, and means for bringing said projecting means into said ring groove and moving it parallel away or towards said watertigbt ring for the purpose of either acting upon said flat detaching collar so as to detach and to remove the pane holder from its watertight ring simultaneously over the whole circumference or acting upon the second collar so as to bring the pane holder parallel to itself to fit tight back on to the tightening ring.

1,750,413. VENTILATOR. ALBERT R. LAUBENSTEIN, Ashland, Pa. Filed Mar. 13, 1929. Serial No. 346,691. 3 Claims. (Cl. 98—99.)



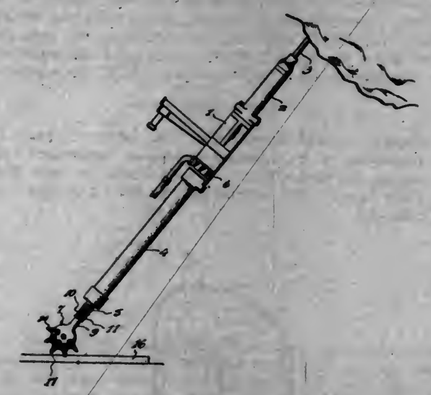
1. A window ventilator consisting of a main deflector section, and a perforated top section extending laterally from the upper edge of the deflector section and equal to the length thereof, and in combination, fasteners each adapted to be fixedly secured to a window frame, and engageable in one of the perforations of said top section, for the purpose of detachably securing the ventilator in place in the window frame opening.

1,750,414. MACHINE FOR TREATING TOMATOES. HAROLD R. LEWIS, Hoopeston, Ill., assignor to Sprague-Sells Corporation, Hoopeston, Ill. Filed Mar. 26, 1925. Serial No. 18,583. 11 Claims. (Cl. 146—81.)



6. A machine for treating tomatoes comprising an endless conveyor for initially receiving and moving tomatoes, a pivoted frame member located adjacent the delivery end of said initial conveyor, an endless conveyor carried by said frame member and adapted to receive tomatoes from said initial conveyor, severing knives mounted on said pivoted member and having vertical adjustment relative to the path of travel of the tomatoes, said frame member, conveyor and slicing knives being movable away from the operative position by swinging on said pivot.

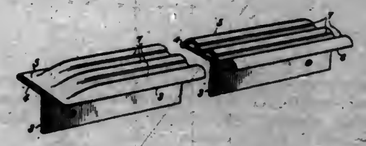
1,750,415. FOOT REST FOR STOPING DRILLS. GAIL G. MARSH, Butte, Mont. Filed Dec. 29, 1927. Serial No. 243,379. 1 Claim. (Cl. 255—52.)



A foot piece of the character described comprising a ball shaped body, said body having spaced series of circularly alined sockets formed therein, calks engaged in the sockets and disposed in angular relation with respect to the longitudinal axis of the body, a single calk connected with the body in alinement with the longitudinal axis thereof for engagement with a support when the longitudinal axis of the body is perpendicular, the calks of the circular series being adapted to engage the support when the longitudinal axis of the body is in an inclined or horizontal position.

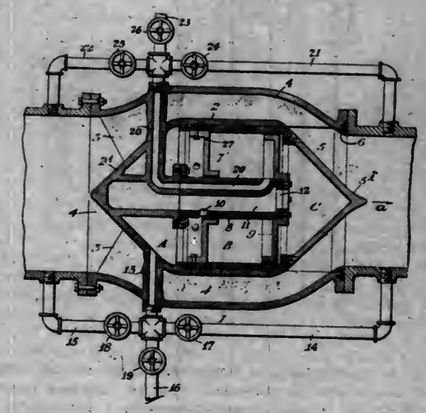
1,750,416. SEALING STRIP FOR BOTTOMS OF VEHICLE BODIES. WALTER A. MAYNE, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a Corporation of Pennsylvania. Filed July 18, 1927. Serial No. 206,620. 1 Claim. (Cl. 296—41.)

In a vehicle body, the combination with a bottom composed of a series of spaced apart floor boards, a sealing device having a vertical portion engaging the edge of one of said floor boards, a horizontal extension spanning the space between such floor boards and resiliently engaging the upper surface of the adjacent board, a returned bent



portion overlying the horizontal and vertical portions aforesaid, said returned bent portion having corrugations formed therein and the convex portions of which engage the horizontal extension at points on each side of the space between said floor boards.

1,750,417. PRESSURE-ACTUATED CONTROL VALVE. LESLIE N. MCCLELLAN, PHILLIP A. KINZIE, JOHN L. SAVAGE, and CHARLES M. DAY, Denver, Colo. Filed Jan. 31, 1928. Serial No. 250,778. 12 Claims. (Cl. 137—139.)

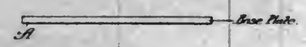


1. In a valve of the character described, the combination with a valve body and a fixed valve element therein, of a movable plunger carried by said valve element and provided with means forming a movable piston cooperating with the valve element, said element provided with a diaphragm cooperating with the movable plunger, said valve member, plunger, piston and diaphragm so associated as to form a plurality of separate pressure chambers, means for introducing pressure fluid into said chambers, means affording communication between all of said chambers, means affording free transference of pressure fluid between certain of said chambers whereby the pressures therein are equalized, means for supplying pressure fluid to a chamber intermediate said certain chambers, and controlling means for said pressure fluid supplying means.

1,750,418. ETCHING AND DECORATING METAL SURFACES. JAMES C. MCFARLAND, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Co., Dayton, Ky., a Corporation of Kentucky. Filed Dec. 5, 1928. Serial No. 324,024. 4 Claims. (Cl. 204—1.)

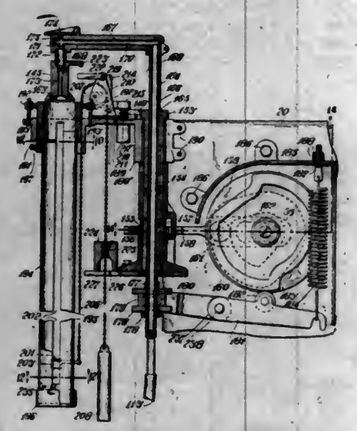
4. The method of treating a base metal surface, which comprises: plating the surface; applying a suitable resist design to said plating; dissolving said plating at the unprotected areas; removing said resist design; electroplat-

ing with chromium the areas presented by one of the metals, using such current density that the other areas will not be plated; removing by means of a suitable solvent



the remainder of the first-mentioned plating; plating with precious metal the last exposed areas; removing the chromium plating; and etching the surface exposed by the removal of the chromium plating.

1,750,419. CAPPING MECHANISM. JULIUS J. MOJONNIER and HARLEY R. PHILLIPS, Oak Park, and HENRY J. CLARKE, Chicago, Ill., assignors to Mojonnier Bros. Co., a Corporation of Illinois. Filed Aug. 17, 1926. Serial No. 129,700. 30 Claims. (C. 226—76.)



1. In combination, a holder for a column of stacked articles, a movable pneumatic cup for engaging the topmost article to seize it and remove it, a member for engaging beneath a number of stacked articles in said holder, a sprocket pulley, a weight, a sprocket chain over said pulley connecting said member and weight, said weight when free being operative to raise said member, a ratchet wheel rotatable with said pulley, a pivoted catch for engaging the teeth of said wheel to lock the same against movement by said weight, lever mechanism operated by the downward travel of said cup to free said catch, and a spring for returning said catch to locking position when said lever mechanism is unrestrained by said cup.

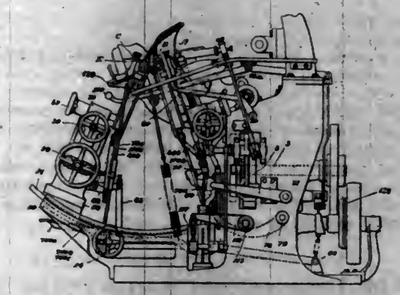
2. In combination, a support, a holder for a column of stacked articles, said holder comprising two segments of a tube divided lengthwise, one segment being secured to said support, the other segment having lugs at its lower end whereby it may be slipped into a carton of stacked articles and withdrawn with the articles upon it in stacked relation, and means for securing the segments together to complete the holder.

25. In combination, a vertical holder for a column of stacked articles, a blade carrier, movable supporting means for said carrier extending lengthwise of said holder whereby said carrier may be placed at desired heights along said holder, a horizontal blade secured to said carrier and movable into and out of the holder to supportingly engage different numbers of articles in the stack, means for causing said blade to press upward, and means for engaging the topmost article as said pressure is applied by said blade.

1,750,420. TREATMENT OF PETROLEUM PRODUCTS. FRANCIS B. MUHLENBERG, Upper Darby, Pa. Filed Dec. 15, 1925. Serial No. 75,618. 5 Claims. (Cl. 196—32.)

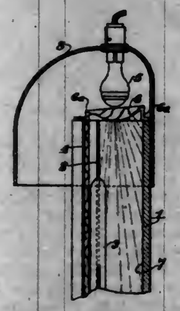
4. The process of desulphurising hydrocarbons comprising treating the hydrocarbons under normal atmospheric conditions with a solution of a compound formed by the reaction of cupric hydroxide and ammonia, and agitating the mass.

1,750,421. PULLING-OVER MACHINE. AUGUST NEUBERT, Weissenfels-on-the-Saale, Germany, assignor to the Firm of Nollesche Werke Kommandit Gesellschaft, Weissenfels-on-the-Saale, Germany. Filed Feb. 28, 1928, Serial No. 257,748, and in Germany Mar. 5, 1927. 5 Claims. (Cl. 12—4.)



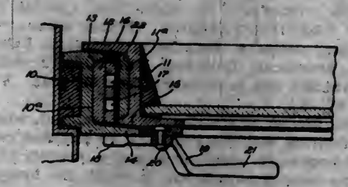
1. In a machine for pulling-over shoes, the combination of a shoe-support, and grippers for operating upon the supported shoe at the rear of its ball with means for adjusting these grippers in curved paths running in vertical planes parallel to the longitudinal axis of the shoe support below the support about points lying approximately on the same level as the supporting face of the support.

1,750,422. THERMOMETER. BRADFORD NOYES, Jr., Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed July 7, 1928. Serial No. 290,999. 5 Claims. (Cl. 240—2.)



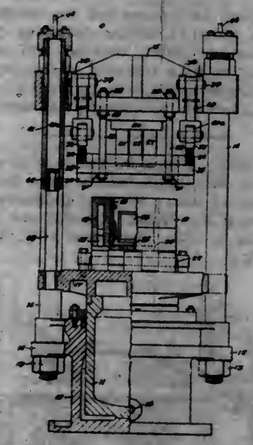
3. In a thermometer assembly, the combination of a thermometer stem, a scale plate having a slot for receiving the stem, a light diffusing member in back of the stem in a position to illuminate the same, means for illuminating the light diffusing member, including a source of light near one end of the stem, optical means between the source and the said member for rendering the density of the light at the surface of the member substantially uniform over an area in longitudinal alignment with the stem, and a hood surrounding the light source, said hood being constructed to direct a fraction of the light downwardly over the scale plate.

1,750,423. CASEMENT-WINDOW LATCH. WALTER S. OGLESBY, New York, N. Y.; Anna A. Oglesby administratrix of said Walter S. Oglesby, deceased. Filed May 28, 1927. Serial No. 194,983. 6 Claims. (Cl. 292—202.)



1. The combination with a casement frame, a sash hingedly mounted therein and a pivoted latch on the inner face of the sash adapted to engage the frame and prevent swinging of the sash to open position, of a grooved keeper on the inner face of the frame adapted to receive the latch for retaining the sash in slightly opened position.

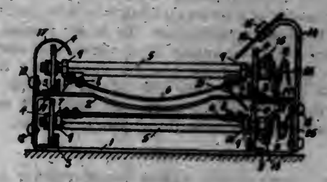
1,750,424. MOLDING APPARATUS. NELS L. OLSON, Highland Park, Mich., assignor to American Rubber Products Corporation, a Corporation of Michigan. Filed Nov. 4, 1927. Serial No. 230,979. 8 Claims. (Cl. 18—19.)



3. In a device of the type described, the combination with a mold having a movable side wall, a core, said mold and core being movable relative to each other, a frame member movable relative to both said mold and core member engageable with said movable wall and the opposite side of said mold, the angle of contact between said frame member and said mold being less than the angle of friction of the material from which said mold or frame member is formed whereby said frame will lock itself to said mold upon engagement therewith, and yieldable means for urging said frame member into close relationship in respect to said mold comprising a pair of pivoted members co-operating to resist movement of said frame member relative to said core member.

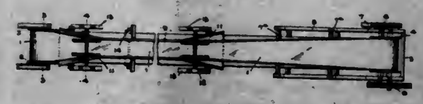
7. A mold having all walls thereof fixed except one which is movable, the side walls adjacent said movable wall being spaced apart a greater distance at said movable wall than at the opposite side of said mold, plates received in said mold in contact with said walls, the plates contacting against said side walls tapering in section oppositely to the direction of taper of said side walls, and means for forcing said plates towards said movable wall, said means comprising a screw parallel with said plate opposite said movable wall and a pin perpendicular thereto and actuated thereby bearing against the rear face of the plate for the wall opposite to said movable wall.

1,750,425. ENDLESS CONVEYER OR ELEVATOR. JOSEPH PARKER, Cowdenbeath, Scotland. Filed Mar. 7, 1929, Serial No. 345,061, and in Great Britain Mar. 18, 1928. 7 Claims. (Cl. 198—208.)



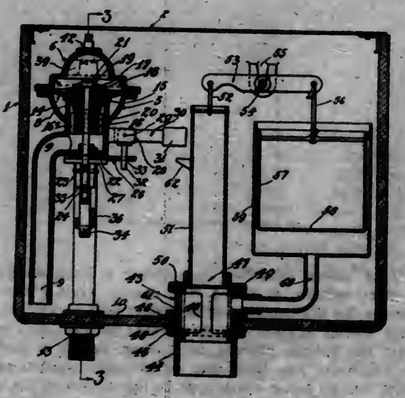
1. A conveyer or elevator comprising an endless belt, a track, rollers movable along said track, axles supporting said rollers, rope grips attached at intervals to the face of the belt and rope grips attached at intervals to the side of the belt.

1,750,426. CONVEYER. HARRY EWART PARTRIDGE, Finchfield, Wolverhampton, England, assignor of one-half to John Thompson (Dudley) Limited, Dudley, England. Filed Jan. 5, 1929, Serial No. 330,459, and in Great Britain Jan. 24, 1928. 3 Claims. (Cl. 266—6.)



1. A conveyer comprising an endless belt constructed from flexible material, guiding drums for supporting the ends of the belt and around which the belt is adapted to pass, means for driving one of said drums and causing said belt to move in an endwise direction, a liquid containing tank for receiving the intermediate part of the belt depending into said tank in the form of a loop and wheels dipping into said liquid containing tank and engaging with the upper surface of the belt and causing that part of said belt passing through said liquid tank to be distorted into channel or trough shape, said wheels being spaced apart to allow material carried by the belt to pass between them.

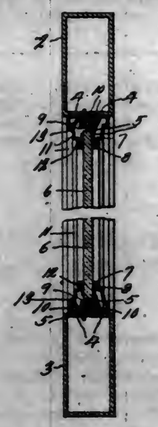
1,750,427. FLUSH TANK. JOHN B. PAUL, Pittsburgh, Pa. Filed June 8, 1928. Serial No. 283,774. 5 Claims. (Cl. 4—41.)



1. In combination with a flush tank, a supply valve comprising a valve body having an inlet pipe and an

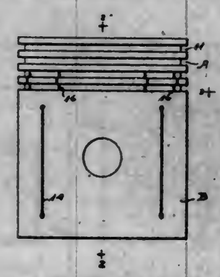
outlet pipe discharging into said tank; a cover for said body; a diaphragm positioned intermediate said body and cover; a valve disc positioned on the lower side of the diaphragm; a seat for said disc; a plug adapted to secure said disc to the diaphragm and having a central aperture; a plunger pin loosely slidable in said aperture and having a head adapted to close the same; means to introduce water from the supply pipe above said diaphragm; means to lift the plunger pin for discharging the water above the diaphragm into the discharge pipe; a slide adapted to engage the plunger pin and hold same into lifted position, and means to actuate said slide.

1,750,428. METALLIC DOOR STRUCTURE OR THE LIKE. JOHN P. PEARSON, La Porte, Ind., assignor to Metal Door & Trim Co., La Porte, Ind. Filed Dec. 1, 1926. Serial No. 151,870. 8 Claims. (Cl. 189—46.)



1. The combination with a device of the character described comprising side members, end members and a panel, of a molding, said molding having a main channel in which the edges of the panel are disposed and a single auxiliary channel, engaging flanges carried by the side and end members and disposed in the auxiliary channel.

1,750,429. PISTON. ARTHUR W. POPE, Jr., Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Oct. 13, 1926. Serial No. 141,253. 7 Claims. (Cl. 74—108.)

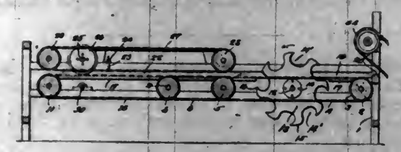


1. A piston structure comprising a head section and a skirt section, a closed ring seated against the inner side of the skirt section at the upper edge thereof, a closed ring seated against the inner side of the skirt section near the bottom thereof, said rings having a coefficient of expansion less than that of the skirt section and the skirt section being continuous in the planes of the respective rings and means connecting the head section to the skirt section and adapting said head section for expansion and contraction independently of the skirt section the skirt section being normally under stress over the rings and the rings being normally under compression due to such stress.

1,750,430. PROCESS OF TREATING CRUDE FIBERS AND TEXTILE FABRICS. RAINER HERMANN POTT, Dresden, Germany, assignor to Chemische Fabrik Pott & Co., Dresden-N., Germany. Filed Jan. 22, 1923, Serial No. 614,308, and in Germany June 15, 1921. 8 Claims. (Cl. 87—5.)

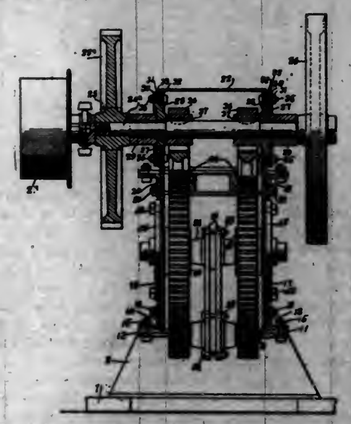
1. The process of treating textile material, which comprises treating such material with an emulsion comprised of a hydrogenated naphthalene and a quantity of saponified fatty substances sufficient to render the hydrogenated naphthalene water miscible.

1,750,431. FISH-CUTTING MACHINE. ARTHUR R. ROGERS, Jonesport, Me. Filed Jan. 28, 1929. Serial No. 335,579. 10 Claims. (Cl. 17—4.)



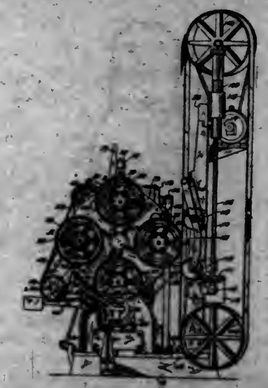
1. In a machine for cutting fish the combination with cutters, and a series of endless conveying elements, of a rotatable cradle working between said elements for successively picking up a plurality of fish from the conveying elements, positioning them by gravity in the cradle, and depositing them on the conveying elements.

1,750,432. PRESS. BRUCE ROLLMAN, Bellevue, Ohio, assignor to The Ohio Cultivator Company, Bellevue, Ohio, a Corporation of Ohio. Original application filed Nov. 16, 1925, Serial No. 69,392. Divided and this application filed May 3, 1926. Serial No. 106,335. 5 Claims. (Cl. 308—72.)



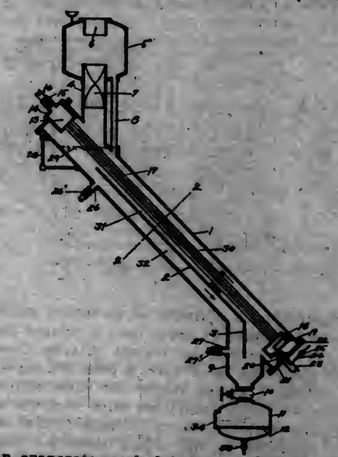
2. In a baler, a base, lower rails and upper rails on either side of said base spaced from one another, and side plates extending from the lower rails upwardly on either side above the upper rails, and a driven shaft supported in the portions of the side plates above said upper rails, and means in said side plates for adjusting the horizontal position of said driven shaft, said adjusting means consisting of a bearing plate having a concave inwardly-disposed bearing flange and a wedge disc having a convex adjacent marginal portion whereby as the wedge disc is shifted vertically or horizontally it will change the position of the driving and driven means carried thereby.

1,750,433. SANDING AND CHAMFERING MACHINE. JOSEPH W. ROSCHE, Minneapolis, Minn. Filed Aug. 7, 1926. Serial No. 127,883. 12 Claims. (Cl. 147—1.)



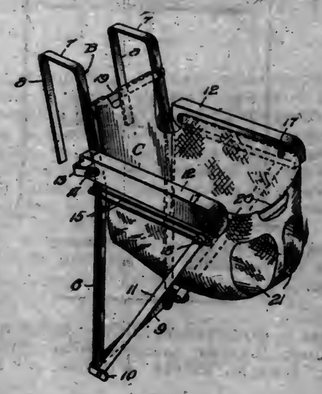
1. A stave receptacle sanding and chamfering machine, comprising a frame, a revoluble holding device journaled on the frame and having a plurality of means for holding staves assembled to form a receptacle, all but one of said holding means being independently rotated and all of said holding means being moved by the holding device to a plurality of positions to permit operations on the receptacle, means at one of its lower positions for clamping a receptacle, means at a second position for removing a temporary holding hoop from the receptacle and for chamfering one edge portion of the receptacle, means at a third position controlled by one of the receptacles in another position for sanding the outer side portion of the receptacle at said third position, means at a fourth position for forcing a hoop on the receptacle, and means at the first mentioned position for stopping the rotation of one of said holding means and for unclamping the receptacle from the holding means to permit its removal and the positioning of another receptacle on the holder.

1,750,434. EVAPORATOR. WILLIAM SIECK, Jr., Winnetka, Ill., assignor to William Garrigue & Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 16, 1928. Serial No. 247,111. 5 Claims. (Cl. 159—23.)



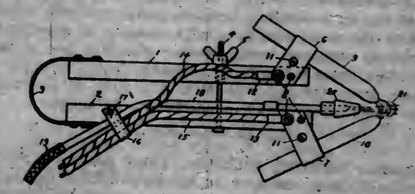
2. An evaporator embodying an elongated and inclined chamber, heating tubes therein and extending throughout the length of the chamber, means for supplying a heating medium into the tubes, means for supplying liquid into the chamber, said tubes being so arranged in said chamber as to cause the liquid to flow against only so much of the heating surfaces as is necessary to convert said liquid into vapor, and means for creating a defined circulation of the liquid within said chamber.

1,750,435. CHILD'S SEAT. B COLEMAN SILVER, Chicago, Ill. Filed Oct. 27, 1928. Serial No. 315,549. 7 Claims. (Cl. 155—79.)



4. In a child's seat, the combination with a back support, of arm rests pivoted at one end thereto, braces extended between the support and arm rests and connected pivotally with one and adjustably and slidably with the other, a bow extended between the free ends of the arm rests and parallel to the same, means joining the bow to the arm rests, and a seat of flexible sheet material suspended from the back support and from the bow throughout the major portion of its length.

1,750,436. ELECTRIC-ARC CUTTING APPARATUS. VLADIMIR B. SOUNITZA, Pasadena, Calif. Filed Aug. 17, 1927. Serial No. 213,583. Renewed Jan. 23, 1930. 3 Claims. (Cl. 219—1.)

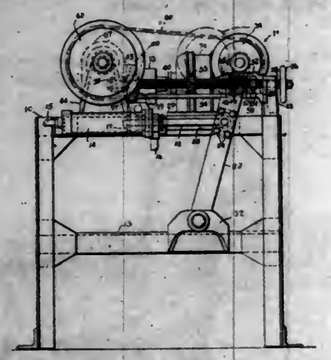


3. In an electric arc cutting apparatus, the combination with electrodes, of supporting means for said electrodes, means to conduct electric current to said electrodes, means to move said electrodes apart, means to adjustably limit said movement of the electrodes apart, said electrodes being adapted to be manually moved together, and means to direct the flow of oxygen against the tips of said electrodes.

1,750,437. TIRE-LINING MACHINE. WILL C. STATE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 9, 1926. Serial No. 134,508. 6 Claims. (Cl. 91—60.)

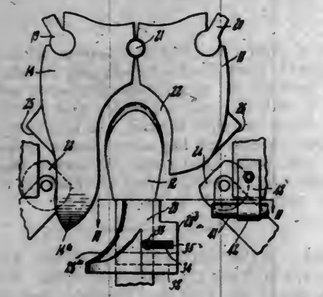
1. An apparatus comprising a frame, relatively movable rotatable members for supporting an endless band, means for driving the rotatable members, a member piv-

oted to the frame and carrying one of the rotatable members, fluid operated means for moving the pivoted member



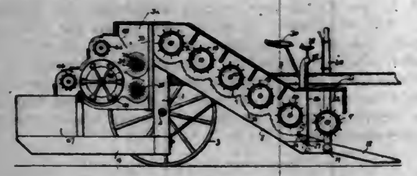
and means controlled by the operation of the pivoted member for controlling the operation of the rotatable members.

1,750,438. COUNTER-MOLDING MACHINE. JOHN HAMMOND STEWART, Lynnfield, Mass. Filed Dec. 17, 1928. Serial No. 326,616. 9 Claims. (Cl. 12—66.)



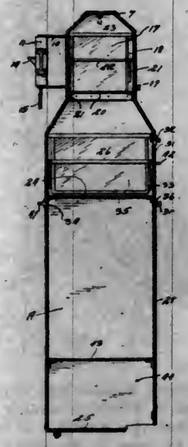
1. A counter molding machine of the type employing complemental inner and outer molding members and a flange presser and having extensions on the inner and one of the outer molding members complementally formed to mold the extension wing of a counter in substantial conformity with the instep portion of a last, one of said extensions being laterally displaceable from the other to provide space for accommodating the wing of a counter blank when being placed in position to be molded.

1,750,439. COTTON PICKER. JOHN ARNOLD STREUN, Sherman, Tex., assignor to Hardwicke-Etter Company, Sherman, Tex. Filed Jan. 8, 1927. Serial No. 159,809. 2 Claims. (Cl. 19—37.)



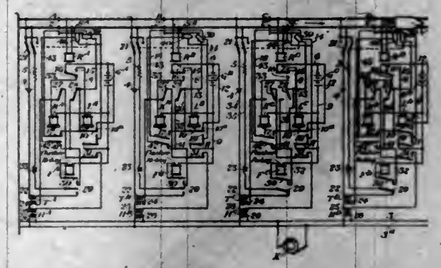
1. A cotton picker and separator vehicle having a forward cotton-receiving opening adjacent the ground, means to pass the cotton rearwardly, an upwardly inclined chute having a perforated wall below the same, separator rolls adapted to pass the cotton upwardly along said wall, and means to eliminate the bulls and dirt thereafter and move the cotton to a receptacle.

1,750,440. DISPLAY CABINET. WILLIAM H. TARVER, Savannah, Ga. Filed June 16, 1927. Serial No. 199,320. 2 Claims. (Cl. 312—100.)



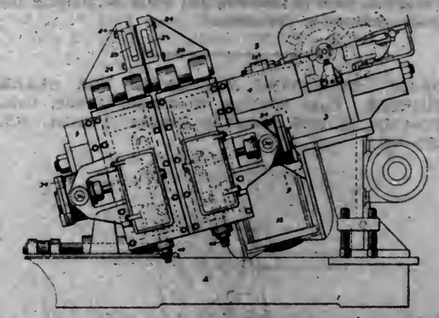
2. A cabinet of the class described comprising vertically disposed corner irons, cross members connecting the upper and lower end portion of said irons, said irons at their upper ends being continued by inwardly and upwardly disposed members terminating in vertically directed supplemental corner members, a crown member operatively supported by the supplemental corner members, panels interposed between and carried by the corner irons, the cross members, the supplemental corner members and the inwardly and upwardly disposed members, opposed panels interposed between the supplemental corner members being provided with windows, and a third of such panels provided with a door.

1,750,441. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 22, 1926. Serial No. 110,922. 11 Claims. (Cl. 246—38.)



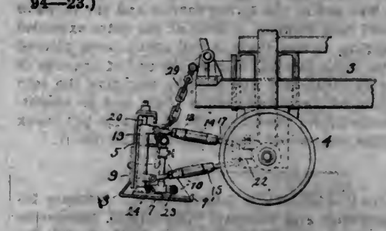
4. In combination, a plurality of successive sections of railway track, a source of track circuit current for supplying current of normal or reverse polarity depending upon traffic conditions in advance, a polarized track relay for each section, a coding device for each section and means controlled by the associated track relay for operating said coding device, a source of train control current, and means controlled by the coding device for supplying intermittent train control current to one track section when one of the two sections next in advance is supplied with track circuit current of normal polarity and the other section is supplied with track circuit current of reverse polarity.

1,750,442. ELECTRICAL WELDING MACHINE. RUSSELL T. TODD, Warren, Ohio, assignor to The Taylor-Winfield Corporation, a Corporation. Filed June 9, 1928. Serial No. 284,083. 8 Claims. (Cl. 219—4.)



1. In an electrical welding machine, a movable table, separate sets of dies, for clamping the work and conducting electric current thereto, said dies extending transversely of said table, separate sets of adjustable toggle devices mounted in slides at opposite sides of said table for operating said separate sets of dies, and separate cylinders and pistons for operating said toggle devices, said toggle devices including stationary blocks adjustably mounted in said slides.

1,750,443. METHOD OF LAYING BITUMEN PAVEMENTS. JASPER G. TULLIS, Cleveland, Ohio, assignor, by mesne assignments, to The Jaeger Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed June 14, 1928. Serial No. 285,232. 4 Claims. (Cl. 94—23.)



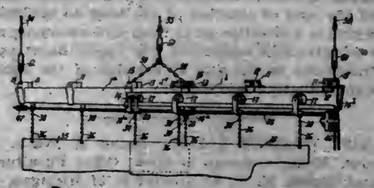
4. The method of laying bitumen pavement, which comprises reciprocating a positively heated compressing member over progressive areas extending completely across the pavement.

1,750,444. CURTAIN TRACK. EARL J. VALLEN, Akron, Ohio. Filed Jan. 7, 1928. Serial No. 245,160. 8 Claims. (Cl. 156—20.)



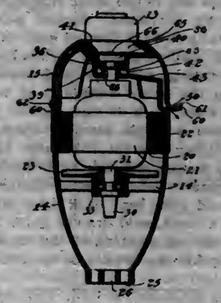
2. In an adjustable sectional curtain track construction, a supporting bracket for securing the track sections in lapped relation, said bracket including a central member extending between the sections and embracing the under surfaces of the track sections, and side members adapted to be secured with their backs to the central member and each embracing the upper portion of a track section, and means for securing the bracket members together.

1,750,445. CURTAIN TRACK. EARL J. VALLEN, Akron, Ohio. Filed May 22, 1928. Serial No. 279,780. 4 Claims. (Cl. 156—46.)



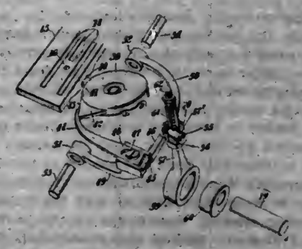
1. In a curtain track structure including master and floating hangers movable along a track and an operating cable connected to the master hanger; each floating hanger comprising a bracket having a spacer sleeve thereon through which the operating cable is extended, and means swiveled onto said bracket to suspend the curtain therefrom, said spacer sleeve being formed of rubber to provide a noiseless bumper when said floating hangers are gathered by operation of the master hanger.

1,750,446. DYNAMO-ELECTRIC MACHINE. JOHN D. WALLACE and CLIFFORD H. LANDIS, Chicago, Ill., assignors to J. D. Wallace & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1928. Serial No. 257,471. 6 Claims. (Cl. 172—36.)



1. A motor comprising a hollow shell-like head having operative mechanism therein and means to produce a ventilating draft therethrough, said head being appropriately apertured to accommodate the necessary inlet and exit of air and being provided with a filter of double walled and fiber lined pocket construction arranged to strain the incoming air and entrap dust particles therein.

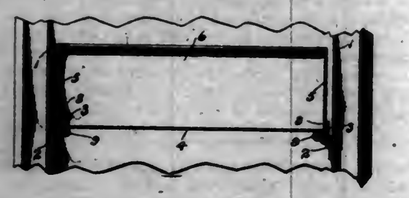
1,750,447. ROTARY-HOOK MECHANISM FOR SEWING MACHINES. MAX LEON WATERMAN, Fairfield, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 31, 1928. Serial No. 266,239. 9 Claims. (Cl. 112—184.)



1. In a sewing machine, a reciprocatory needle, a rotary hook cooperating with said needle in the formation of

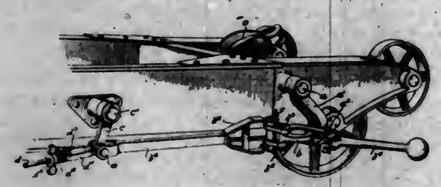
lock-stitches, a thread-case journaled in said rotary hook, stationary means for limiting oscillation of said thread-case in one direction, an opener-finger having a thread-case engaging portion movable in a general direction crosswise of the axis of rotation of the hook to oscillate said thread-case in a direction away from said stationary means, means for pivotally supporting said opener-finger upon an axis transverse to the axis of rotation of the hook, and means for actuating said finger.

1,750,448. DRAWER SLIDE. PETER M. WEGE, Grand Rapids, Mich., assignor to Metal Office Furniture Co., Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 23, 1928. Serial No. 248,598. 3 Claims. (Cl. 45—77.)



1. In a construction of the class described, a casing having spaced apart vertical sides, two angle members immovably secured one to the inner side of each side of the casing and having horizontal drawer guide flanges extending horizontally inward toward each other and in the same plane, and vertical flanges permanently secured to the sides of the casing, a drawer, and drawer guide members attached to the outer sides and at each lower side corner of the drawer, each of said drawer guide members being formed from a single piece of sheet metal with a vertical section lying against the outer side of and immovably secured to the side of the drawer, each of said sections being bent inward underneath the drawer for a short distance and then bent back upon itself in an outwardly opening U-bend, said drawer guide flanges extending into said U-shaped portions of the drawer guide members to thereby guide the drawer in its sliding movements.

1,750,449. HAND-BRAKE-LEVER ASSEMBLY. SIDNEY B. WINN, Lapeer, Mich. Filed July 9, 1928. Serial No. 291,456. 9 Claims. (Cl. 280—33.1.)



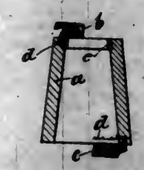
1. In tractor-trailer combinations of the semi-trailer type, wherein the tractor and trailer have a coupling relationship to permit combined and separate service activity, wherein the trailer is under brake control from the tractor during combined service activity, and wherein separation of tractor and trailer is operative to automatically apply the trailer brakes in brake-set condition, brake mechanism for and carried by the trailer, said mechanism including an element manipulable from the tractor to provide trailer brake movements during combined service activity, and connections between said element and the trailer brakes for translating element movements to the brakes of the trailer, said element, brakes and connections forming a unitary mechanism in constant connected relationship, said connections including a pair of pivoted supporting arms located in fore and aft relation and connected to move in unison, a section in advance of and connected to the fore support, and means within the section for temporarily releasing the brakes from element control while maintaining said connected relationship and while maintaining the brake-set position of the element.

1,750,450. OPERATING MECHANISM FOR GLARE SHIELDS. CARL WILLIAM WOODHEAD, Gilman, Colo. Filed Mar. 14, 1929. Serial No. 346,914. 1 Claim. (Cl. 296—97.)



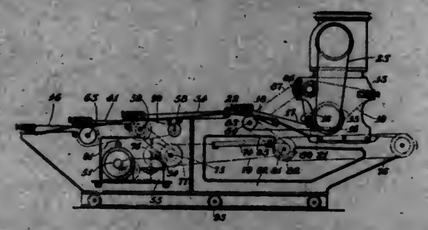
In a device of the kind described, a case for mounting above the windshield of an automobile, a rack segment pivoted in the upper part of the case, a pinion journaled in the case in mesh with the said rack, an arm extended from the said pinion outwardly through the case, a glare shield at the end of the arm, a shaft journaled horizontally and laterally through the lower frontal portion of the case, an elongated spring carrier mounted upon the said shaft within the case, the free end thereof being extended upwardly and backwardly, a retractile coil spring stretched between the free end of the spring carrier and the forward end of the said rack segment, a lever at the outer extended end of the spring carrier shaft, a bell crank lever pivoted upon the outer front face of the case, the end of one arm of this lever being bifurcated and thereby engaging the said lever at the end of the spring carrier shaft, and an operating wire extended from the other arm of the said bell crank lever to a point convenient to the hand of the driver.

1,750,451. NAIL-CLEANING APPLIANCE. WILFRID INGRAM WRIGHTSON and VICTORIA WRIGHTSON, Newcastle-upon-Tyne, England. Filed July 18, 1928, Serial No. 293,659, and in Great Britain July 26, 1927. 4 Claims. (Cl. 132—73.)



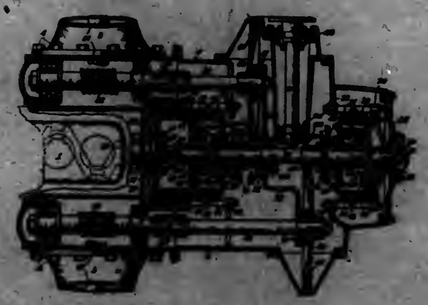
4. A nail-cleaning appliance comprising a stock having a series of tufts of short bristles disposed in a curve at one end thereof adjacent to the rim of said stock, and a concavity in said end to receive the pad of the finger tip, and a disc mounted so as to be free to revolve in said concavity, said tufts being inwardly-inclined so that, when the pad of the finger tip is placed across said end to rest in said concavity, said bristles enter beneath the tip of the finger nail and, by partially revolving the stock to and fro while it rests against said pad, extraneous matter beneath the finger nail is readily removed, said stock being also provided with a polishing pad.

1,750,452. UNLOADING AND STACKING MECHANISM FOR BISCUIT OVENS. GEORGE RALPH BAKER, CLAUDE DUMBLETON, and JOHN CURRIE PATERSON, London, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed June 18, 1929, Serial No. 370,960, and in Great Britain June 12, 1928. 3 Claims. (Cl. 107—45.)



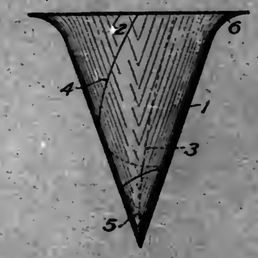
1. In a device for removing biscuits from the trays of a traveling conveyor and for stacking them, the combination of a suction nozzle disposed crosswise the direction of travel of the conveyor and spanning the width thereof, a perforate bottom for said nozzle, an air-pervious traveling band arranged to pass across the perforate bottom in the direction of the length of the conveyor and in close proximity to the biscuits on the trays, three conveyors arranged in succession and driven respectively at decreasing speeds, the first conveyor adapted to receive and carry material delivered to it by said traveling band, the receiving end of the second conveyor underlying the delivery end of the first conveyor, the receiving end of the third conveyor underlying the delivery end of the second, said second conveyor formed near its delivery end with a relatively steep declination, and means for driving said conveyors and said air-pervious band, for the purposes set forth.

1,750,453. TRACTOR. WILLIAM I. BALLENTINE and PAUL R. THOMPSON, La Porte, Ind., assignors to Advance-Rumely Company, La Porte, Ind., a Corporation of Indiana. Filed June 16, 1923. Serial No. 645,751. 35 Claims. (Cl. 180—17.)



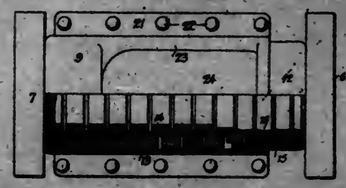
1. A tractor, comprising wheels, power means and means for transmitting power to the wheels, said power transmitting means including a clutch mechanism having a rotatable member rotated by the power means, a stationary member, said rotatable and stationary members having clutch elements, a slidable member and a cooperating member each having clutch elements cooperating with the clutch elements of the rotatable and stationary members and mounted to rotate with said rotatable member when the clutch elements of the rotatable member, the slidable member and the said cooperating members engage, a driving connection to a wheel including means connected to the rotatable member and said cooperating member, and means for controlling the sliding movement of said slidable members.

1,750,454. ROLLED-EDGE-CONE CUP. CESARE BARBERI, New York, N. Y., assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill., a Corporation of Delaware. Filed June 2, 1927. Serial No. 195,899. 1 Claim. (Cl. 229—1.5.)



A conical drinking cup constructed of a blank of substantially quadrantal form shaped to permit overlapping of two of the margins thereof, and means for securing the overlapping margins together, said quadrantal form having one edge thereof deflected during the formation of the cup to form a substantially plain peripheral drinking edge above a curved section.

1,750,455. DRAFT GEAR. FRANK B. BELL and OSCAR R. WIKANDER, Pittsburgh, Pa., assignors to Edgewater Steel Company, Pittsburgh, Pa. Filed Apr. 21, 1927. Serial No. 185,556. 6 Claims. (Cl. 213—29.)



1. In a draft gear, a draft frame, a yoke, a casing in said frame and coacting with said yoke, said casing being open at one end and comprising a body of generally circular cross-section and provided with bosses about its circumference, forming longitudinal guideways and terminating adjacent to the open end of the casing to provide stop shoulders, a shock absorbing spring in the casing, and a plunger slidably mounted in the open end of the casing and receiving one end of the spring, said plunger being provided with outstruck portions forming combined guide members engaging said guideways in the casing and stop members to engage said stop shoulders of the casing, the part of the ring spring contained in the casing having rings of such outside diameter as to fit the same, and the part of the spring extending into the plunger having outside rings of a smaller diameter to fit the inside diameter of said plunger.

6. In a draft gear, a casing open at one end, a chambered plunger open at its inner end and telescopically fitting in the open end of the casing, and a ring spring in said casing, the outer rings of a part of said ring spring being of such diameter as to fit within the casing, and the outer rings of the remainder of said ring spring being of such diameter as to fit within the telescoping plunger, the travel of the part of the ring spring inside of the plunger being less than the width of one ring, whereby liability of the edges of the ring spring catching in the edge of the open end of the plunger is obviated.

1,750,456. REGISTERING-DEVICE ACTUATING MEANS. FERDINAND H. BORM, Chicago, Ill. Filed Mar. 26, 1927. Serial No. 178,524. 4 Claims. (Cl. 74—54.)

1. A device of the class described comprising in combination a casing; a toothed wheel journalled therein; a leaf spring having a U-shaped portion; one side of said

U-shaped portion being curved downwardly and the end thereof engaging teeth in said wheel; the other side of



said U-shaped portion lying along the upper side of said casing, and means for operating said spring for rotating said toothed wheel.

1,750,457. METAL FURNITURE CONSTRUCTION. RICHARD BRADSHAW, Montreal, Quebec, Canada, assignor to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 13, 1926. Serial No. 154,598. 7 Claims. (Cl. 5—131.)



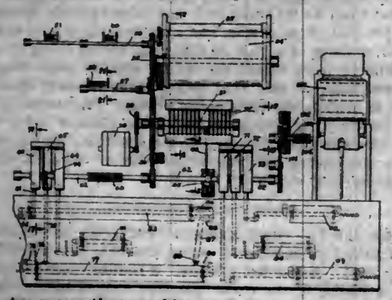
1. In metal furniture, in combination with posts and a panel between the posts, a bottom rail connecting the posts and supporting the lower edge of the panel comprising a plate located in a plane lying forwardly of and parallel with the plane of the panel, a stiffening member behind the upper part of said plate, and a head strip holding the panel to the stiffening member and covering the upper edge of the plate.

1,750,458. VENTILATING SYSTEM. JAMES BURKE, Erie, Pa., assignor to Burke Electric Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,210. 4 Claims. (Cl. 98—39.)



2. A ventilating system comprising a series of sections adapted to be suspended from a ceiling, heating means in certain of said sections and a plurality of separate motor driven fans in others of said sections and conduit means connecting said heating and fan sections.

1,750,459. INDIVIDUALLY-RESETTABLE ACCUMULATOR-UNIT TABULATOR. FRED M. CARROLL, Yonkers, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1926. Serial No. 147,960. 38 Claims. (Cl. 235—58.)



1. An accounting machine including a printing device comprising electrically-operated control means, an accumulating device comprising a differential mechanism and electrically operated control means, separate control circuits for each of said control means and initiating means for listing operations comprising a common actuator for said circuits, an additional control circuit for said printing control means for totaling operations and an actuator for said last named circuit operated by said differential mechanism whereby items may be listed and their totals printed on a common record sheet by said printing device

12. An accounting machine which is provided with a plurality of accumulator units having associated recording devices controlled thereby and forming an accumulating and recording bank, adapted to be split at any point to isolate desired accumulator units with their associated recording devices into independent sub-banks, characterized by the provision of resetting means for said units operable upon a recording operation and means for selectively associating any of such formed sub-banks therewith to effect resetting of the units of any sub-bank so selected without resetting of the units in the other sub-banks on a recording operation.

1,750,460. COMPOSITION OF MATTER AND METHOD OF EMPLOYING SAME. CLARENCE M. CARSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 6, 1927. Serial No. 159,511. 13 Claims. (Cl. 91—68.)

6. A method of rendering balloon fabric impermeable to inflating gas which comprises applying to said fabric a coating material containing latex, a protein and a hygroscopic electrically conductive salt, said salt being potassium chloride.

7. A balloon fabric coated with a material containing latex and fibrin.

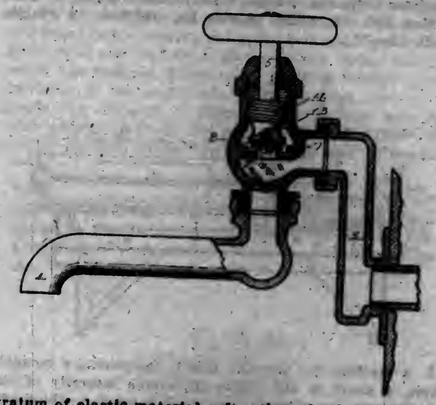
1,750,461. TRUSS PAD. FRANK E. CHESTERMAN, Noble, Pa. Filed May 7, 1928. Serial No. 275,604. 3 Claims. (Cl. 128—117.)



1. A truss structure consisting of a soft cushioning flanged pad having spaced radially arranged lug receiving openings in the flange of said pad, a rigid disc fitted within said pad, radially arranged lugs on said disc for engaging said openings, said disc having a central screw threaded aperture therethrough, a rigid casing arranged to receive said pad, said casing having a central aperture therethrough in alignment with the disc aperture, a cross strap fitted to said casing and having an aperture therethrough in alignment with the aforesaid apertures, a screw having a head which screw is arranged to penetrate said casing and cross strap and to engage said disc, and a belt engaging said casing at right angles to the cross strap and frictionally engaging the head of said screw without engagement with said cross strap.

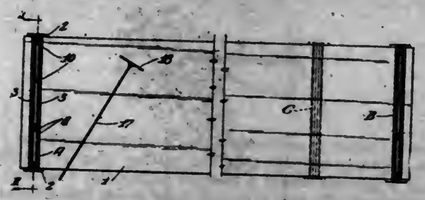
1,750,462. VALVE. LOUIS A. CORNELIUS, Grand Rapids, Mich., assignor to Wolverine Brass Works, Grand Rapids, Mich., a Corporation of Michigan. Filed Jan. 18, 1926. Serial No. 80,923. 2 Claims. (Cl. 251—159.)

1. In a device of the character described: a valve seat; a valve having a member carried thereby comprising a stratum of elastic material adjacent the valve stem and adapted to contact the extremity of the valve seat, and a



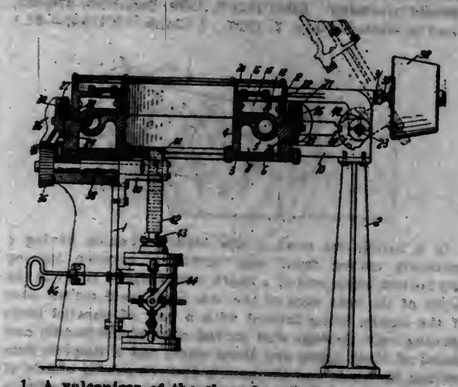
stratum of elastic material softer than the first-mentioned stratum and adapted to contact the side of the valve seat in the valve's seated position.

1,750,463. CLOTH HOLDER. ABRAHAM DEINSTEIN, Chicago, Ill. Filed Nov. 24, 1928. Serial No. 321,532. 12 Claims. (Cl. 164—78.)



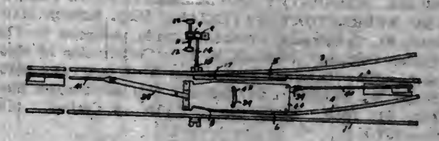
1. A cloth holder comprising a grooved frame, clamping means for engaging the same transversely of a cutter's table, a row of pins slidably engaged in the groove of the frame, and means for clamping the pins in set positions of adjustment.

1,750,464. HORIZONTAL VULCANIZER. ANDREW J. FLEITER, Akron, HENRY C. BOSTWICK, Kenmore, and THEODORE ALBERT MILLER, Akron, Ohio, assignors to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Filed May 4, 1927. Serial No. 188,635. 2 Claims. (Cl. 18—19.)



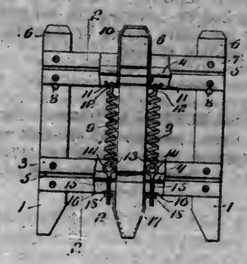
1. A vulcanizer of the class described comprising a stationary section and a movable section, a locking ring about the stationary section, lugs on the ring, mating lugs on the movable section, and means to rotate the ring about the movable section comprising a rack on the ring, a gear in engagement with the rack, a shaft for the gear, a pinion upon the shaft, a second rack in engagement with the pinion, and a hydraulic cylinder to move the second rack.

1,750,465. RAILWAY SWITCH. MACEO GAULT, Taylor, Tex. Filed Sept. 25, 1928. Serial No. 308,184. 3 Claims. (Cl. 246—278.)



1. In a railway track having a switch track and a switch; a mechanism connected to the switch and through which the switch may be thrown into open or closed position said mechanism including a laterally shiftable bar to which the switch is connected, a shift lever pivoted at an intermediate point to a fixed anchor and one end of which is pivoted to said bar, oppositely disposed shifting levers whose adjacent ends are pivotally connected to the other end of the shift lever, said shifting levers being pivoted, intermediate their ends, to fixed anchors, actuating levers pivoted at their outer ends to fixed anchors and at their inner ends to the other ends of the shifting levers, and a yieldably mounted anchor and a toggle lever, pivoted at one end, to said yieldably mounted anchor and, at its other end, to said shift lever.

1,750,466. BALING BLOCK. THOMAS GRAY, Lyndon, Kans. Filed Jan. 28, 1929. Serial No. 335,425. 11 Claims. (Cl. 100—24.)

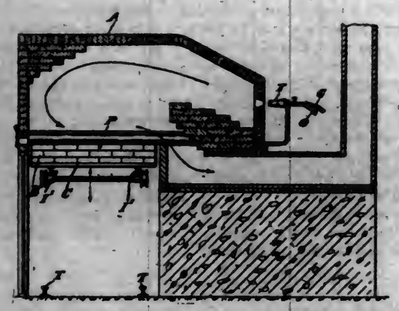


5. A baling block comprising a lower member having a fastening plate provided with a vertical hole therethrough, an upper member pivoted at its lower edge on the upper edge of said lower member so as to swing laterally to and from a position alined with the lower member, said upper member having two transverse plates at opposite sides respectively of and overlapping said lower member, said two plates each having in its outer side a longitudinal wire receiving groove, a spring fastened at its upper end to said upper member, a bolt to which the other end of the spring is fastened slidable in said hole, and a nut on said bolt bearing against the under side of said plate having said hole, the tension of said spring normally swinging said upper member to the alined position.

1,750,467. PROCESS OF TREATING KRAUT. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed Oct. 2, 1924. Serial No. 741,212. 8 Claims. (Cl. 99—8.)

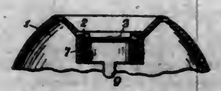
1. The process of preserving kraut, which comprises, introducing kraut in bulk into a bath of hot liquid in order to separate the individual fibres and to simultaneously bleach and sterilize the kraut, and subsequently packing batches of the finally treated kraut in sealed receptacles.

1,750,468. METHOD OF AND APPARATUS FOR TREATING REFRACTORY MATERIAL. EARL LESSON HAUMAN, St. Catherines, Ontario, Canada, assignor to The Exolon Company, Blasdell, N. Y., a Corporation of Massachusetts. Original application filed Oct. 11, 1926, Serial No. 141,021. Divided and this application filed Jan. 31, 1929. Serial No. 336,813. 4 Claims. (Cl. 25—157.)



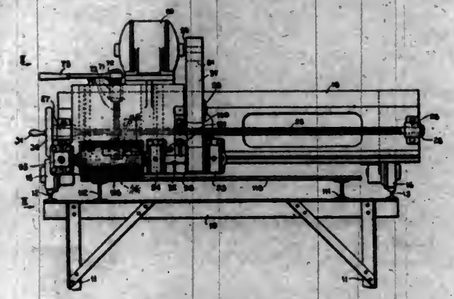
1. In a step by step retort of the class described, an arch, a material support adjustable relative to said arch, and means for progressively lowering the support to maintain the surface of successive layers of material in predetermined spaced relation thereto.

1,750,469. PUSH-BUTTON HOUSING. NEIL G. HAYES, Bridgeport, Conn., assignor of one-half to Adelbert R. Auray, Bridgeport, Conn. Filed Feb. 17, 1928. Serial No. 254,944. 1 Claim. (Cl. 200—168.)



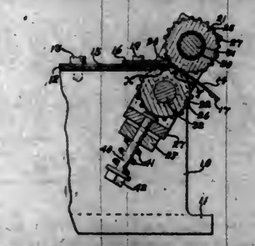
A push button construction formed from a single piece of sheet metal, comprising an outer shell having a central and inwardly depending tubular portion, said tubular portion being adapted to embrace and support the electrical mechanism, and an inwardly projecting push button support formed by folding and upsetting the metal of said tubular portion.

1,750,470. MOLD-CLEANING MACHINE. HERMAN J. HOMMES, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 21, 1928. Serial No. 255,936. 9 Claims. (Cl. 15—77.)



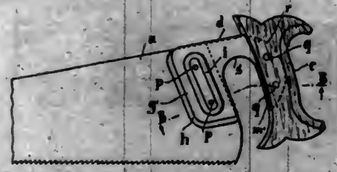
1. A machine for cleaning molds, comprising a movable frame, a shaft in the frame adjustable laterally of the latter, screws for adjusting the shaft, a brush on the shaft, and means for rotating the shaft.

1,750,471. MACHINE FOR FORMING ARTICLES. ALAN C. HOOVER, Chicago, Ill. Filed Mar. 28, 1929. Serial No. 350,482. 5 Claims. (Cl. 153—54.)



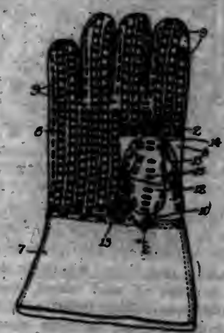
1. A machine for imparting circular form to an element, comprising means for guiding the element, supporting means having rollers therein for advancing and curving the element, and spring actuated means for adjusting and moving one of said rollers and its supporting means with respect to the other roller and its supporting means to compensate for various thicknesses of the elements.

1,750,472. HANDSAW. WILHELM HÜCKINGHAUS, Remscheid, Germany. Filed July 8, 1929, Serial No. 376,552, and in Germany Jan. 7, 1927. 1 Claim. (Cl. 145—31.)



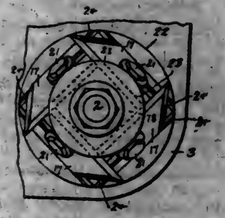
In a handle for saws, a saw blade, a handle having a concavely curved front edge extending between its top and bottom edges and of a depth substantially equal to the depth of the rear edge of the saw blade, said curved edge of the handle being formed with a pair of parallel kerfs opening only through said curved edge of the handle and closed at their upper and lower ends, and a tie-piece connecting the blade and the handle and comprising a pair of rear parallel plates engaging the kerfs of the handle, a pair of front parallel plates lying on opposite sides of the rear end of the saw blade, a pair of arched intermediate plates forming a shank uniting the afore-mentioned plates, and a top plate closing the spaces between the front plates and the intermediate plates, said intermediate plates having inbent flanges closing the space between them at their lower edges and said front plates having inbent marginal flanges and instruck intermediate portions bearing against the faces of the saw blade, rivets passing through the handle and rear pair of plates and uniting the same, and rivets passing through the saw blade and instruck intermediate portions of the front plates and uniting the same.

1,750,473. GLOVE. KARL E. JENSEN, Chicago, Ill., assignor to Industrial Gloves Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 16, 1928. Serial No. 319,781. 3 Claims. (Cl. 2—161.)



1. A glove comprising, in combination, a hand covering including a palm portion having a part thereof cut away to provide a reinforcing flap and a thumb opening, a separately formed thumb stall having a pair of side members arranged to fit on either side of said opening with said palm flap extending outwardly overlying one side of the thumb stall, means for securing said side members to the palm of the glove and said flap to the thumb stall, and a reinforcing patch having a portion secured to the palm of the glove between the ends of said side members and having another portion secured to the thumb stall.

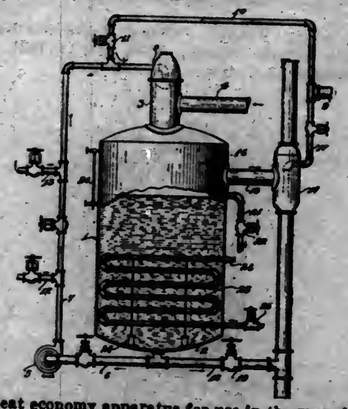
1,750,474. CUTTER HEAD. LUTHER C. JOHNSTON, Morganton, N. C., assignor of one-fourth to J. E. Garrison and one-fourth to Joe Kjellander, Burke County, N. C. Filed July 15, 1927. Serial No. 206,100. 4 Claims. (Cl. 144—231.)



1. In combination a shaft, a pair of clamping blocks fitting the shaft, the blocks provided with triangular channels, and blades of rectangular cross section engaging the channels with the blades at an angle to the axis of the shaft.

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1,750,475. WATER HEATER. ALFRED G. KERNIN, Mosinee, Wis., assignor to Mosinee Paper Mills Company, Mosinee, Wis., a Corporation of Wisconsin. Filed Apr. 2, 1928. Serial No. 266,704. 4 Claims. (Cl. 257—52.)



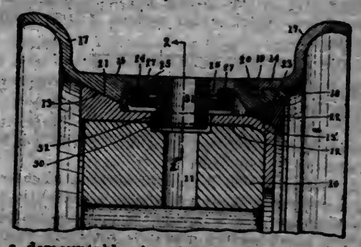
1. A heat economy apparatus for use in the manufacture of pulp, comprising a tank having a mixing dome, means for introducing blow-off steam into said dome, an outside circulating system for drawing water from the bottom of said tank and introducing said water into the top of said dome to condense said steam and be heated thereby and closed pipe coils positioned in said tank for heating water circulated through said coils.

1,750,476. MEANS FOR FACILITATING THE TYING AND SEALING OF PACKAGES. FRITZ KILLING, Cologne, Germany. Filed Nov. 4, 1927, Serial No. 231,126, and in Germany Nov. 13, 1926. 7 Claims. (Cl. 292—325.)



1. A package seal comprising a pair of clamping disks, and a collapsible hollow stem connecting said disks, one of the disks being provided with an inwardly directed marginal retaining flange forming a locking channel, and the other locking disk having an annular series of spaced tongues forming intervening cord passages, said tongues being normally directed toward the first-named disk and the free edges thereof being adapted, upon the collapse of the collapsible stem, to be moved radially outward and interlocked with said locking channel.

1,750,477. DEMOUNTABLE RIM. FRED R. KLAUS, Warren, Ohio, assignor, by mesne assignments, to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 26, 1925. Serial No. 39,689. 8 Claims. (Cl. 301—35.)



5. In a demountable rim structure, the combination of a separable transversely split rim section, a locking mem-

ber spanning the ends of and engaging the base of the rim section adjacent thereto, and a housing apertured to slidably receive a valve stem and adjustably connected to the section to clamp the member in locking relation to the section.

1,750,478. WHEEL. CONRAD ROBERTSON KOEHLER, Toronto, Ontario, Canada. Filed Feb. 14, 1927. Serial No. 168,027. 3 Claims. (Cl. 152—20.)



1. In a wheel, the combination of a hub; a tire-carrying member loose on said hub; a tire mounted on said member; and means independent of said tire-carrying member forming a direct drive connection between the hub and the tread portion of the tire.

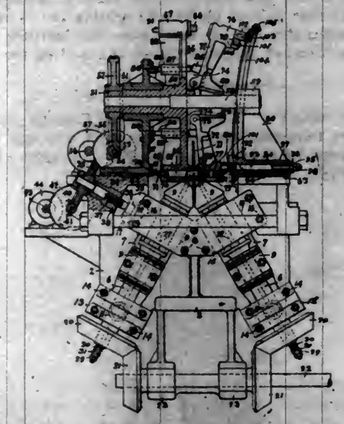
1,750,479. ARCH INSERT. HENRY LIPSCHUTZ, Brooklyn, N. Y., assignor to Elco Shoe Manufacturers, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 7, 1927. Serial No. 231,485. 2 Claims. (Cl. 36—71.)



1. A turn shoe having a bendable leather insert built therein, the front of said insert extending in front of the arch portion of the shoe and being spaced from the toe of the shoe so as to leave the toe portion thereof substantially unobstructed, said insert having a longitudinally curved spring connected to the underside thereof to impart a longitudinally curved contour thereto, said insert having a lateral single wing which is substantially confined to the inside arch portion of the shoe, said wing substantially contacting with the inner side of the arch portion of the upper of the shoe, said wing being confined to the central portion of said insert and projecting laterally from said central portion and being free from metal stiffening means which would prevent it from being built into the shoe.

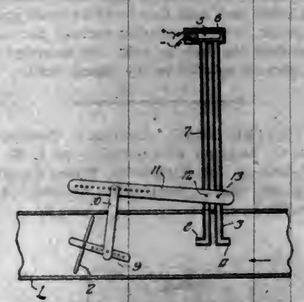
1,750,480. ROLLING MILL FOR TAPERED DISKS. ARTHUR MARTIN, Pittsburgh, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 13, 1921. Serial No. 507,444. 22 Claims. (Cl. 80—16.)

12. A feeding device for metal-working machines comprising a rotatably mounted wheel, a plurality of antifriction bearings equally spaced around the periphery of said wheel, blank-holding mandrels rotatably mounted in said bearings and projecting laterally from the face of said wheel, pins slidably carried by said wheel adjacent to said bearings, clamping arms pivotally carried by said wheel and adapted to co-operate with said mandrels to secure blanks thereon, each of said clamping arms carrying a rotatable socket member adapted to fit over the end of the adjacent mandrel, two rollers carried by each of said clamping arms, a resiliently mounted cam track adapted to operate through one set of said rollers to force each



clamping arm into engagement with the adjacent mandrel during a portion of the rotation of said wheel, a stationary cam track for causing the said pins to move the said clamping arms away from said mandrels during another portion of the rotation of said wheel, and a circularly curved cam track cooperating with the second set of rollers on the clamping arms in their movement toward and away from the mandrels.

1,750,481. CONTROL SYSTEM. CHARLES A. MARTIN, Chicago, Ill. Original application filed Aug. 6, 1925, Serial No. 48,592. Divided and this application filed Dec. 4, 1928. Serial No. 323,739. 9 Claims. (Cl. 137—78.)

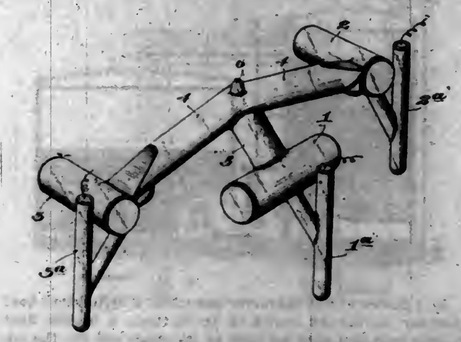


1. A device of the character described comprising a valve for controlling the flow of fluid thru a passage, means for heating a portion only of said fluid during its travel, and means controlled by the thermal condition of said heated fluid for controlling said valve.

1,750,482. MERCURY-VAPOR LAMP FOR ALTERNATING CURRENTS. RUDOLF ANTON FRANZ MATOUCH, Leipzig, Germany, assignor to Adolf Gustav Köllmann, Leipzig-Gohlis, Saxony, Germany. Filed June 5, 1924, Serial No. 718,032, and in Germany Apr. 25, 1924. 2 Claims. (Cl. 176—42.)

1. An alternating current mercury vapor lamp comprising a central illuminating tube, anodes at the end of said tube at right angles thereto and extending in one direction,

a cathode vessel connected with said illuminating tube by a thick walled connecting tube at substantially the center of said illuminating tube, said connecting tube extending in a general direction opposite to that in which the anodes extend, said cathode vessel being horizontally disposed when in use in a direction parallel with said illuminating tube



and at right angles to said anodes and lying in a plane that is laterally displaced from a plane running vertically through said illuminating tube and in a horizontal plane substantially below and parallel to a horizontal plane passing through said illuminating tube at the point where said connecting tube is thereto attached.

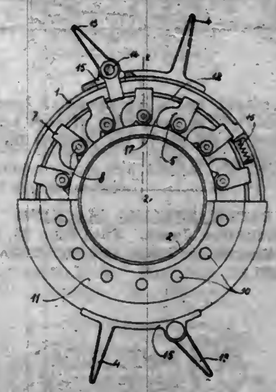
1,750,483. VEHICLE WHEEL. ANDRÉ JULES MICHELIN, Paris, France, assignor to Michelin et Cie., Clermont-Ferrand, France, a Corporation of France. Filed Apr. 10, 1929, Serial No. 354,008, and in France Nov. 19, 1928. 2 Claims. (Cl. 301—9.)



1. In a wheel, the combination with a hub provided with an annular flange projecting therefrom, of a wheel body, provided with an axially disposed annular rib on the inner edge thereof adapted to bear against said flange, said wheel body being also provided with axially disposed perforations, the parts of the wheel body adjacent said perforations being bent over to form stiffening ribs, the inner portions of said ribs bearing against said hub flange, with fastening bolts passing through said wheel body and said hub flange intermediate of the points of engagement of said wheel body ribs and said hub flange, said bolts holding said wheel body in firm engagement with said hub flange.

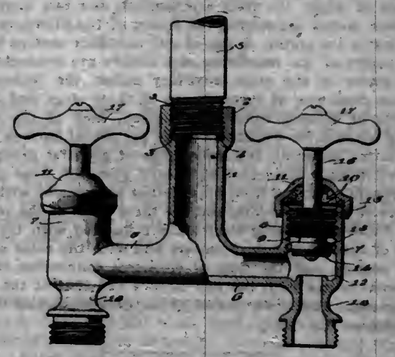
1,750,484. EGG CUTTER. PIERRE MICHELON, Valence, and GEORGES FUOSS, Bourg-les-Valence, France. Filed Dec. 3, 1927, Serial No. 237,474, and in France Dec. 11, 1926. 4 Claims. (Cl. 146—2.)

2. An egg cutter comprising a stationary annular frame; a ring disposed concentrically within the frame and rotatable thereon, said ring having a set of notches equidistantly spaced along its circumference and also having an indentation between two successive notches; fixed and pivoted handles on said frame, the pivoted handle being located opposite said indentation and having a tail engaged in the same so as to rotate the ring when said handle is pressed



toward the fixed handle; and a set of cutters, one for each notch, each cutter embodying an actuating tail engaged in the corresponding notch and a sharp tooth adapted to project into the central aperture of the frame, whereby the rotation of said ring will cause all the cutters to rock simultaneously.

1,750,485. COMPOUND FAUCET. GUSTAV MULLER, Jr., Jacksonville, Fla. Filed July 13, 1927. Serial No. 205,408. 3 Claims. (Cl. 277—67.)

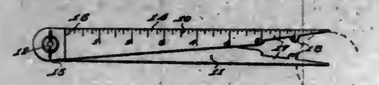


1. As a new article of manufacture, a compound faucet comprising an upstanding inlet pipe enlarged at its upper end and internally threaded for detachable connection with an ordinary spigot, said inlet pipe merging at its lower end into oppositely extending horizontal outlet branches, said inlet pipe and branches being in the same vertical plane, upstanding valve casings at the outer ends of said outlet branches, said casings including independently controlled vertically movable screw valves, and seats therefor, said casings extending above and below the horizontal outlet branches.

1,750,486. COMBINATION CALIPER AND DIVIDER. FRANCIS M. NOLDER, Westboro, Ohio. Filed Feb. 4, 1928. Serial No. 251,940. 1 Claim. (Cl. 33—149.)

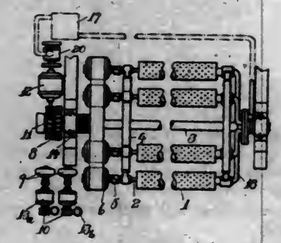
A tool comprising a pair of arms pivotally connected at one end and tapering from their pivoted to their free ends,

one edge of each arm being inset for a relatively short distance inward at its free end and providing straight edges disposed in a plane substantially parallel to the adjacent edge of the arms with the inset portions of the arms being



oppositely arranged, and a lug extending from the intermediate portion of the inset edge of each arm with the outer extremity of the lug in the plane of the major portion of the edge of the arm.

1,750,487. PAPER-REELING MACHINE. WASABURO OKUURA, Muko-Gun, Japan. Filed Sept. 23, 1926, Serial No. 137,345, and in Japan Oct. 13, 1925. 1 Claim. (Cl. 242—75.)



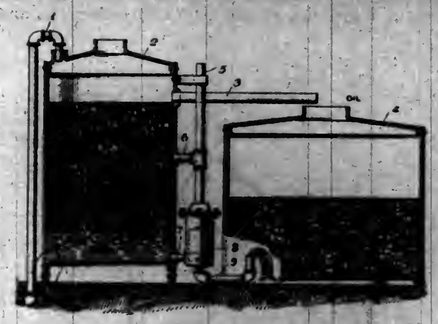
In a paper reeling machine of the type comprising a plurality of reels mounted in a rotary frame, each brought into working position by intermittent rotation of said frame, a plurality of induction motors one for each reel, to the rotors of which the reels are coupled, and two auxiliary motors, means connecting the rotors of the alternate reel motors to the stator of one of said auxiliary motors while the rotors of the remaining reel motors are connected to the stator of the other auxiliary motor, the connecting means consisting of three groups of three rings and three groups of brushes contacting thereon, each of the rings being covered for five-sixths of its peripheral surface with insulating material, the three rings of the first group being electrically connected with each phase of three phase alternating current from an external source and with the rotors of six reel motors, and the three rings of the second and third group being electrically connected with the stators of the two auxiliary motors and with the rotor of six reel motors, and the time of electrical connection of the external source with the reel motors and that of the auxiliary motors being controlled by the proper position of the brushes on the rings.

1,750,488. AUTOMATIC ALARM SIGNAL. THOMAS PERNEK, Sr., Hartford, Conn. Filed July 18, 1925. Serial No. 44,597. 2 Claims. (Cl. 116—61.)



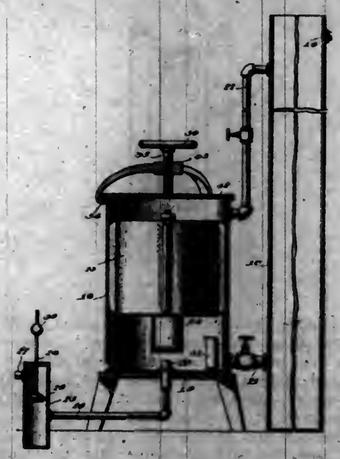
1. An audible alarm, comprising a bell, a V-shaped lever, a clapper for the bell secured to one arm of said lever, an escapement mounting the lever, a motor geared to the escapement, an arm pivotally mounted and provided in one position to hold said lever and escapement inactive, means to hold the arm in said position, and spring means engaging the arm and adapted to move the arm when released to release the lever to actuation by the escapement.

1,750,489. DEVICE FOR SEPARATING WATER FROM OIL. JOHN W. PIPPIN, Hebbronville, Tex. Filed Mar. 2, 1927, Serial No. 172,176. Renewed Sept. 7, 1929. 1 Claim. (Cl. 210—54.)



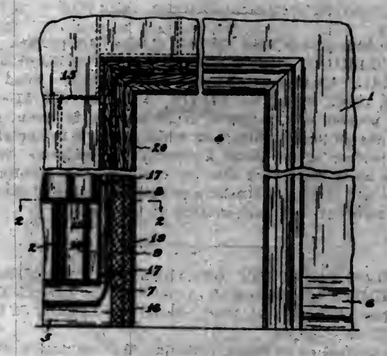
In a device of the character described, a cylindrical float chamber having an outlet in its bottom, a hollow float therein provided with an inlet at its upper end for the admission of ballasting liquid into the float, a closure for the inlet, a valve element carried by the bottom of the float and adapted to seat upon the outlet, and a plurality of radially disposed ribs formed on the vertical walls of the float, the ribs being V-shaped in cross section and having their outer edges in contact with the walls of the float chamber, the ribs serving to guide the float in a true vertical direction, and also to prevent rotation of the float in the liquid contained in the float chamber.

1,750,490. DEVICE FOR SEPARATING WATER FROM OIL. JOHN W. PIPPIN, Hebbronville, Tex. Filed Oct. 19, 1927, Serial No. 227,250. Renewed Sept. 7, 1929. 7 Claims. (Cl. 210—54.)



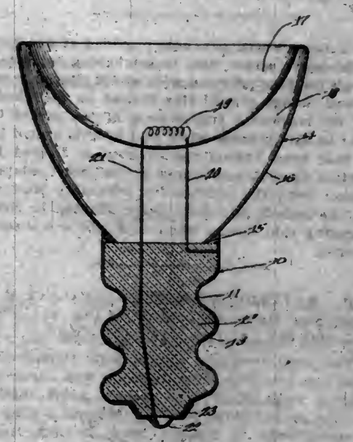
1. In an apparatus for separating liquids of different specific gravity, a separator tank having communication with a source of liquid supply and an outlet, a float valve in the separator tank for controlling the outlet and normally sustained in open position by liquid of one specific gravity but permitted to descend to close the outlet in liquid of a different specific gravity, and means normally sealing the outer end of the outlet to prevent vacuum therein and the consequent sticking of the float valve, such means being actuated to open the outlet to the atmosphere by liquid pressure from the separator tank when the float valve is open.

1,750,491. WALL CONDUIT. HERBERT N. PUTNAM, Lakewood, Ohio. Filed Aug 15, 1927. Serial No. 212,919. 10 Claims. (Cl. 72—98.)



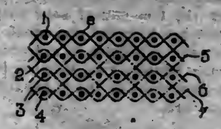
1. A wall structure having an opening therein and a tubular conduit built into the wall and composed of metallic structural members forming wall supports, said conduit extending laterally from opposite sides of the opening and along the margin of the opening around one end thereof.

1,750,492. ELECTRICAL ELEMENT. HURLEY D. RALSTON, Oak Park, Ill., assignor of forty per cent to Robert J. Blum, River Forest, Ill. Filed May 28, 1928. Serial No. 281,277. 2 Claims. (Cl. 219—34.)



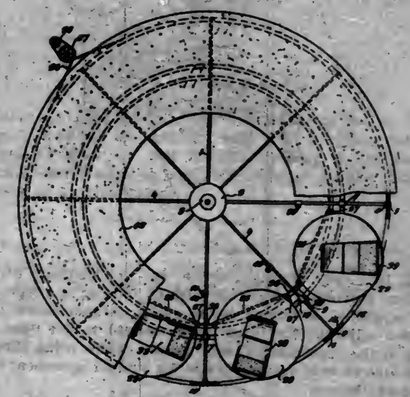
1. A device of the character stated including a substantially bowl-shaped portion having another bowl-shaped portion fitted into the open side thereof, a base member, means for connecting the base member to said first named portion whereby an air tight chamber may be defined between said portions, an electric element mounted in said second named portion at the inward-most disposed section thereof, and means for connecting said element to electric contact portions on said base member, said base member having connecting portions provided thereon to permit the mounting thereof in an electric socket or the like.

1,750,493. MULTIPLE-PLY WOVEN FABRIC. ROWLAND SPENCER, St. Annes-on-Sea, England. Filed May 10, 1928, Serial No. 276,743, and in Great Britain June 27, 1927. 1 Claim. (Cl. 139—408.)



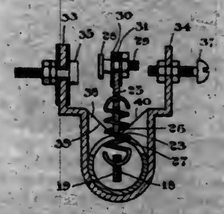
A multiple ply cloth adapted to form a cover for the drying cylinder of a paper-making machine composed of weft of doubled cotton and worsted, the outer ply having a warp of doubled cotton and worsted, the warps of other plies being of doubled cotton.

1,750,494. AMUSEMENT DEVICE. ALBERT SPILLMAN, North Tonawanda, N. Y. Filed Jan. 20, 1927. Serial No. 162,393. 3 Claims. (Cl. 272—44.)



1. In an amusement device, an undulated track, a movable structure supported and functioning independently of the track, a passenger carrying platform pivotally connected to the structure, a plurality of running wheels extending from the platform and rolling upon the track so that the platform receives a wave like motion from its undulations and a passenger carrying car pivotally mounted upon the platform.

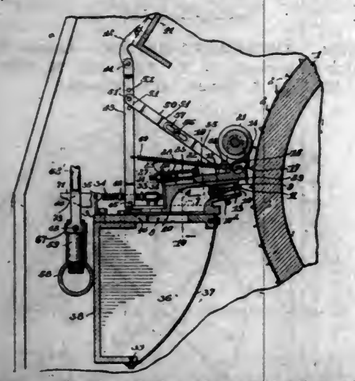
1,750,495. ELECTRIC HEATING DEVICE. EDWARD ARTHUR STANGER, Montreal, Quebec, Canada, assignor of one-half to Aaron Schwartz, Montreal, Quebec, Canada. Filed Nov. 18, 1927. Serial No. 234,258. 2 Claims. (Cl. 200—138.)



1. A heat controlling device for an electrically heated unit comprising a tubular member mounted in the unit near the heating surface thereof, a bi-metallic strip secured at one end to the tubular member at one end thereof, a

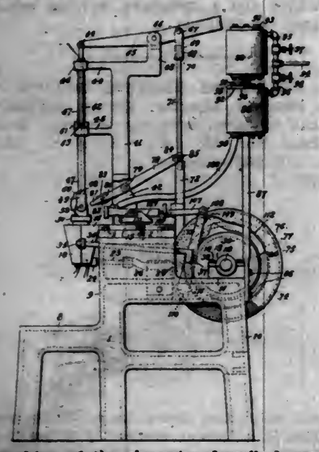
pair of arms extending upwardly from the other end of the member, one of said arms carrying a pair of contacts connected in series with the heater circuit, a bar mounted on a member pivotally mounted on the tube, said bar being adapted to normally bridge the contacts and a resilient connection betwen the free end of said strip and the pivotally mounted member to make and break the circuit, to automatically keep the unit between a predetermined minimum and maximum temperature, said switch being operated through the movement of the bi-metallic strip due to changes in temperature.

1,750,496. RUG-CLEANING MACHINE. WILLIAM T. STRIDE, Rochester, N. Y., assignor to A B C Rug Cleaners Inc., Rochester, N. Y., a Corporation of New York. Filed Oct. 19, 1928. Serial No. 313,453. 21 Claims. (Cl. 15—4.)



2. In a rug cleaning device, the combination with a rotary supporting drum upon which the rug is adapted to be supported, a rinsing device and a vacuum device positioned adjacent the drum and arranged to act upon the rug in the order named, said rinsing device being slidably mounted on said vacuum device for limited movement with respect thereto.

1,750,497. ICE-CREAM-CONE-MAKING MACHINE. JOSEPH ANDREW TALLENT, Alton Park, Tenn., assignor of thirty per cent to David Thomas Jones and thirty per cent to James Ulysses Jones, Chattanooga, Tenn. Filed Mar. 14, 1925. Serial No. 15,487. 15 Claims. (Cl. 107—66.)



1. A machine of the character described comprising a mold, a core adapted to be received in the mold, a slidable support, a plate carried by the support and adjustable thereon, said plate having a passage therein for the discharge of batter, a valve for controlling the discharge through the passage, and means for operating the support for positioning the passage in the plate over the mold.

1,750,498. PROCESS OF DRYING, CLEANING, AND POLISHING SHEET METAL WITH CORNCOB MATERIAL. CHARLES C. TRUAX, Toledo, Ohio. Filed Sept. 22, 1926. Serial No. 137,170. 1 Claim. (Cl. 51—278.)

A process of treating a metal surface to clean, polish and absorb liquids therefrom which consists in applying to the surface of the metal a comminuted material, meal or flour made from corn cobs by crushing and grinding the same and causing a brushing or rubbing action of said corn cob material over said surface of the metal.

1,750,499. METHOD OF TREATING ARTICLES IN TUMBLING BARRELS. CHARLES C. TRUAX, Toledo, Ohio. Filed Oct. 9, 1926. Serial No. 140,679. 1 Claim. (Cl. 51—278.)

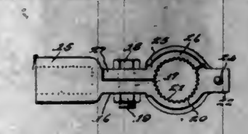
A method of cleaning, polishing and burnishing articles which comprises placing the same loosely in a movable container, along with attrition objects such as balls, and with a quantity of finely divided material, meal or flour made from corn cobs by crushing and grinding the same and then agitating the container.

1,750,500. TOOTHBRUSH. GEORGE REX WEISZ, Chicago, Ill., assignor of one-half to A. S. Shapiro, Chicago, Ill. Filed July 12, 1926. Serial No. 121,872. 2 Claims. (Cl. 15—176.)



1. In a tooth brush, a handle provided at one end with a flat transverse socket, said socket having oppositely disposed wall portions provided with wedge shaped grooves, a brush head, wedge shaped ribs formed on said head and adapted for movement transversely of the socket for engagement in said grooves when said head is seated in said socket, said head having spaced notches formed in one edge portion thereof, and means on the socket adapted for engagement with the notches for releasably latching the head in the socket, said head being adapted to ride over and engaging said means when said ribs are inserted in said grooves.

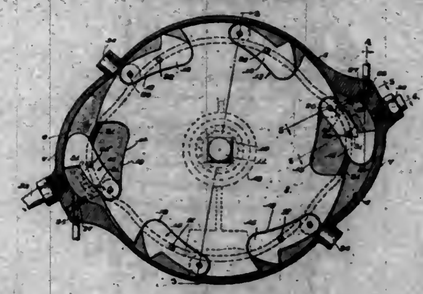
1,750,501. BATTERY CONNECTER. MAURICE M. ARMSTRONG, New Harmony, Ind. Filed Oct. 16, 1926. Serial No. 142,071. 1 Claim. (Cl. 137—259.)



A battery terminal clamp comprising a pair of clamping jaws pivotally connected together at one end, the opposite end portions of said jaws being extended and provided with openings to receive a clamping bolt, the extended end portion of one of said jaws being formed with a socket extending laterally therefrom past the end of the other jaw to receive an electrical conduit, and a clamping bolt passing through the openings in said extended end portions, said socket portion opposite the extended end portion of said other jaw being flattened to provide a side

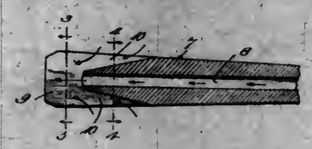
surface, and said extended portion of said other jaw having an end face to oppose the flattened side of said socket when the jaws are closed.

1,750,502. ROTARY INTERNAL-COMBUSTION ENGINE. THOMAS A. BAKER, Bakersfield, Calif. Filed Sept. 28, 1927. Serial No. 222,600. 3 Claims. (Cl. 123—17.)



3. In an internal combustion engine, a circular casing having a plurality of combustion chambers therein, a rotor journalled in the casing and having a plurality of spaced circumferential pockets therein, a swinging vane pivoted in each of the pockets and normally lying therein but successively movable into the combustion chambers, a U-shaped lever pivotally mounted adjacent each combustion chamber, a valve connected with each U-shaped lever and controlling the admission of gaseous fuel to the combustion chambers, and means carried by the rotor for engaging the legs of the U-shaped levers to alternately open and close the valves as the vanes assume operative and inoperative positions.

1,750,503. PIPE OR ANALOGOUS MOUTHPIECE. CHARLES BLOSSOM, Celina, Ohio. Filed Dec. 28, 1928. Serial No. 329,005. 2 Claims. (Cl. 131—12.)



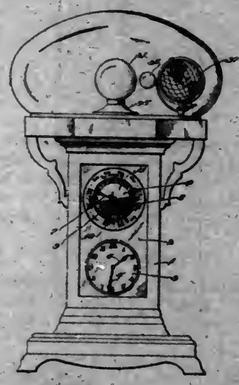
1. A pipe or analogous mouthpiece comprising a horizontally elongated body having a longitudinal smoke passage, the rear end of said body being formed with a transverse horizontal kerf which communicates with said smoke passage and opens through said end and opposite longitudinal sides of said body, said sides being each formed with a longitudinal kerf extending to said transverse kerf from a point exposed to atmosphere when the mouthpiece is in use.

1,750,504. SCISSORS SHARPENER. ALVIN HUDSON BROPHER, Markleton, Pa. Filed June 14, 1924. Serial No. 720,060. 1 Claim. (Cl. 51—58.)

A tool sharpening device comprising a vise including jaw members hingedly secured to each other, means for securing the jaw members with respect to a fixed support, a supporting arm formed with and extending from one of said jaw members, a slotted head formed with the free end of said arm, a rod having one end pivotally secured in the slot of the head, a rack formed with the other arm and arranged concentrically with respect to the pivot of the rod, a handle formed with the free end of said rod, a pinion mounted on the rod, a cylindrical abrasive member mounted on said rod and meshing with the teeth of the rack, a coil spring having its end convolutions engageable with the slotted head and adjacent end of the abrasive member respectively, said jaw members being adapted to receive a tool for arrangement in the path of the abrasive member, and said abrasive member being disposed at an inclination.



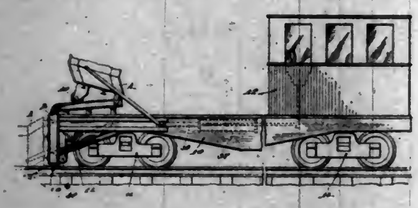
1,750,505. ASTRONOMICAL CLOCK. MICHAEL N. BULKA, Chicago, Ill. Filed July 1, 1922, Serial No. 572,192. Renewed May 10, 1926. 1 Claim. (Cl. 58—8.)



In an astronomical clock, a dial structure including an inner dial member having characters on the face thereof indicating the hours of the day, an outer dial member disposed around said inner dial member and having characters thereon representing the calendar months and the days thereof, hands adapted for cooperation with said dial structures, means for driving said hands including a shaft supporting one of said hands and adapted for a revolution once in twenty-four hours, a rotatable sleeve disposed around said shaft and adapted to carry the other of said hands, said sleeve being operatively connected to said

shaft for rotation therewith in the ratio of 366 to 1, said inner dial being mounted on said sleeve for rotation therewith, said first mentioned hand cooperating with said inner dial whereby to indicate the hour of the day, and said second mentioned hand cooperating with said outer dial whereby to indicate the day of the month.

1,750,506. BALLAST-DRESSING MACHINE FOR RAILROADS. SOLON F. CLAPP, deceased, Temple, Tex., by Clara Clapp, administratrix, Temple, Tex. Filed Aug. 30, 1927. Serial No. 216,480. 4 Claims. (Cl. 37—104.)



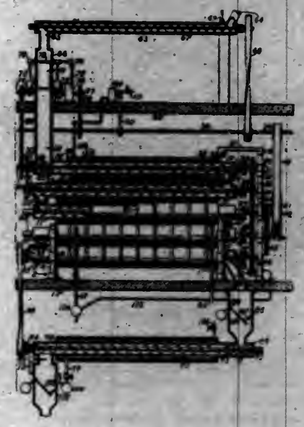
4. In combination, a railroad car, channel members depending from the car to provide outer guide-ways and central guide-ways, and ballast leveling plates independently movable in said guide-ways.

1,750,507. TYPEWRITING MACHINE. GABRIEL DE LA PEÑA CONCEPCION, Habana, Cuba. Filed July 12, 1928, Serial No. 292,137, and in Cuba Apr. 7, 1928. 1 Claim. (Cl. 197—143.)



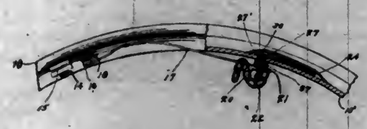
In typewriting machines, a paper guiding attachment which comprises in combination with the platen of the machine, a support including a bar bent at its upper end; a ring of substantially circular form hinged to the bent end of the support and maintained spaced from the same by means of stops; a ring attached to the rear side of the support in concentric relation to the first mentioned ring; and means for mounting the support behind the platen of a typewriting machine.

1,750,508. METHOD FOR CONDITIONING GRAIN. JOHN W. CORNELIUS, Kansas City, Mo., assignor to General Mill Equipment Company, Kansas City, Mo., a Corporation of Missouri. Filed June 28, 1928. Serial No. 287,816. 11 Claims. (Cl. 83—28.)



1. A method of treating grain including moistening the grain, enclosing the moist grain, sealing the grain in the enclosure, and applying heat to the enclosed grain for building up pressure to drive the vapor into the grain kernels.

1,750,509. TIRE-DEFLATION SIGNAL. ARTHUR S. CRAIG, Kansas City, Mo. Filed Mar. 27, 1929. Serial No. 350,307. 11 Claims. (Cl. 116—34.)



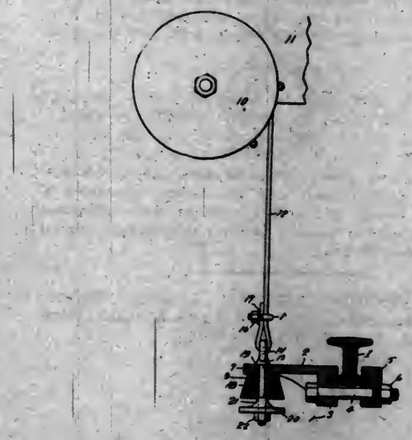
1. A tire deflation signal comprising, in combination with the tire tube and wheel, a releasable alarm-signal element carried by the wheel, and a detent member engaged with the tube and operating in response to a reduction of the air-pressure therein to release said signal element.

1,750,510. SHOCK-ABSORBER ATTACHMENT. WILLIAM PATRICK DAY, Cleveland Heights, Ohio. Filed Sept. 9, 1926. Serial No. 134,415. 12 Claims. (Cl. 267—10.)

1. In combination with a shock absorber of the type having a flexible connection with a vehicle axle, of an auxiliary shock absorbing device comprising an arm adapted to be secured to a vehicle axle and having an opening therethrough, a stud extending through said opening and having its upper end connected with said flexible connection, the lower end of said stud having a frusto-conical resilient block secured thereto and adapted to bear against

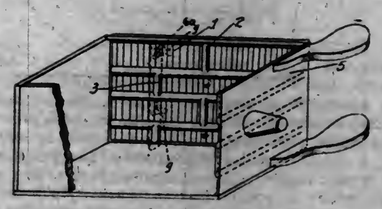
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the lower side of said arm, a disk slidably mounted on the lower end of said stud and having a conical portion



adapted to enter the aperture in said resilient block and compress the same and an operative connection between said stud and disk.

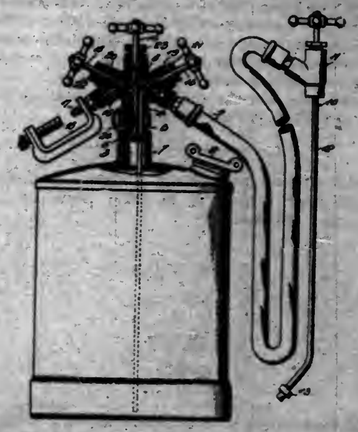
1,750,511. PROCESS OF AND APPARATUS FOR MOLDING BUILDING BLOCKS. GEORGE W. DUNN, Newport, Ky. Filed June 11, 1926. Serial No. 115,366. 8 Claims. (Cl. 25—155.)



1. A process of molding divisional cleavage lines in building blocks, which consists in molding with a standard sized die, a face of a brick with the die provided with portions to indicate staggered courses of a plurality of rows of straight edged bricks, and securing against said die means forming a vertical cleavage groove on the face of the brick along a line adjacent a divisional line between the bricks of one of said indicated courses.

1,750,512. LIQUID-SPRAYING DEVICE. ARNO A. EWALD, Oakfield, Wis., assignor to Romort Manufacturing Company, Oakfield, Wis. Filed Nov. 25, 1927. Serial No. 235,589. 2 Claims. (Cl. 299—95.)

1. In a liquid spraying device, a gas pressure and liquid-containing tank, a valve body projecting therefrom and provided with two laterally projecting bosses, said body having both gas and liquid conducting ports formed longitudinally therein, a main transverse discharge passage leading from said gas and liquid conducting ports through one of said bosses, and a transverse gas inlet port leading through the other boss to said gas conducting port, a liquid conducting tube leading to said liquid conducting port from the lower portion of the tank, a valve threaded in the outer end of said body for controlling discharge of gas from said gas conducting port into said main discharge port, a valve threaded in said one boss for controlling discharge of liquid from said liquid conducting port into said main discharge port, and a valve for said gas inlet port threaded in said other boss.

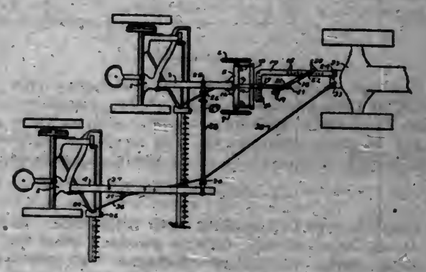


1,750,513. DRAPERY HOOK. BEULAH BEATRICE FICK, Baltimore, Md. Filed June 28, 1929. Serial No. 374,571. 2 Claims. (Cl. 156—21.)



1. A device of the class described comprising a member of substantially inverted U-shape, with one limb longer than the other, said longer limb tapering to a point at its free end and an upwardly and outwardly extending prong on said longer limb adjacent the upper end of the device.

1,750,514. HITCH FOR MOWING MACHINES AND THE LIKE. CHARLES E. GATES, Sedgwick County, Kans. Filed Aug. 11, 1927. Serial No. 212,284. 1 Claim. (Cl. 280—33.44.)



In a device of the class described, an L-shaped draft bar, a guiding element adjustably attached to the base

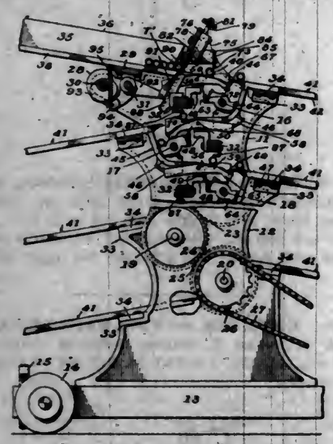
element of said bar and a diagonal brace adjustably connecting between the bar and the guiding element; a truck and a pair of wheels mounted on spindles supporting the truck; a crank arm for each spindle, a link hinged to the guide element and connecting to the spindles; a tongue of a machine carried by the truck; an adjustable brass member, a tongue of another machine, said brace member connecting and spacing said tongues; and a cable associated with said brace member and adapted to connect from the source of draft to the second machine.

1,750,515. TENSION DEVICE. VICTOR J. GOVER, New Haven, Conn. Filed May 26, 1928. Serial No. 280,833. 2 Claims. (Cl. 96—18.)



2. In combination with a spindle having a bobbin rotatably mounted thereon, ratchet teeth provided on the top of said bobbin, a vertical slidable member, a dog pivotally mounted on said member for swinging movement beyond the vertical plane of said bobbin, and a spring catch carried by said member and engaging said dog for locking said dog against swinging movement in a vertical plane with said bobbin for co-action with said ratchet teeth.

1,750,516. GRADING MACHINE. DAVID E. GRAY, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed Apr. 11, 1927. Serial No. 182,896. 20 Claims. (Cl. 209—121.)



1. In an assorting machine, the combination of a plurality of vertically-spaced scales set for progressively increasing weights, guideways between said scales, a plurality of grade-compartments, and means for delivering each article weighed to one of the grade-compartments.

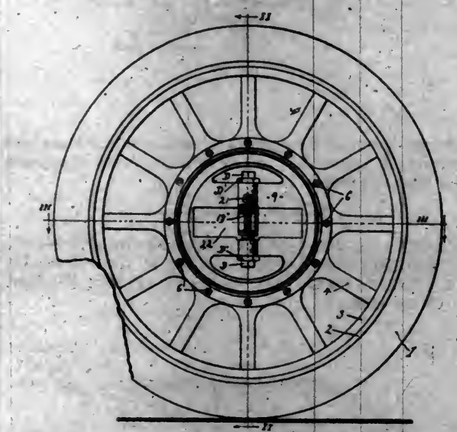
1,750,517. CIRCUIT MAKER AND BREAKER. HAROLD DAVID GROH, Toronto, Ontario, Canada. Filed Oct. 18, 1926. Serial No. 142,449. 4 Claims. (Cl. 200—140.)

1. A circuit maker and breaker comprising a duct containing a column of mercury, a member provided with a cupped recess adapted to contain mercury and form a barrier wall between said mercury and the mercury of the duct, and an expansible vapor subject to temperature changes to exert pressure upon the mercury body to raise



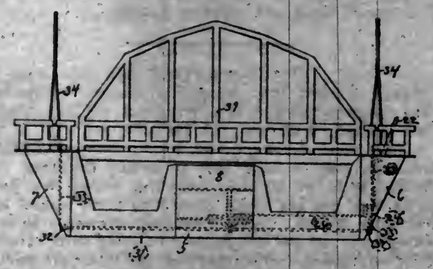
or lower the level thereof above or below the barrier wall to make or break contact with the mercury contained in the cupped recess, and a thin resilient wall interposed between the body of mercury forming the mercury column and the expansible fluid.

1,750,518. STEERING KNUCKLE. ARTHUR P. HELDENBRAND, Three Sands, Okla. Filed Dec. 8, 1925. Serial No. 74,136. 1 Claim. (Cl. 280—96.3.)



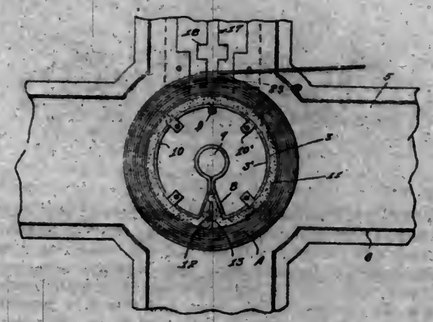
In a front wheel mounting for automotive vehicles and the like, an annular member formed concentric to a wheel at its center and being trunnioned therein by ball bearings, a spindle bracket diametrically positioned on the said annular member, the said spindle bracket being divided at the center to accommodate a knuckle pin mounted in the end of an axle, ball races threadedly engaging in the portions of the divided spindle bracket and forming thrust bearings for the upper and lower portions of the knuckle pin, and means to lock the ball races in the desired position substantially as shown.

1,750,519. TOY BRIDGE. HANS JADE, San Francisco, Calif. Filed Sept. 29, 1926. Serial No. 138,467. 1 Claim. (Cl. 46—37.)



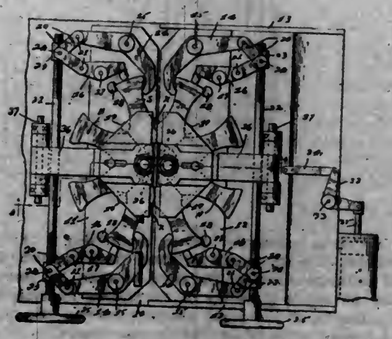
In a toy of the character described, a pair of portable spaced abutments connected to each other, a pier fixedly positioned between said abutments, a bridge portion pivotally supported on said pier and adapted to be rotated into and out of contact with said abutments, a gear mechanism positioned within said pier, and adapted to rotate said bridge, gates positioned on said abutments, a shaft extending between said abutments, means for rocking said shaft when said bridge is actuated and means for transmitting said rocking motion from said shaft to said gates.

1,750,520. CHANGE-OVER SIGNAL FOR MOTION-PICTURE MACHINES. HUBER K. JONES and EDMUND A. CHASE, St. John, New Brunswick, Canada. Filed June 8, 1928, Serial No. 283,981. Renewed Aug. 7, 1929. 2 Claims. (Cl. 116—67.)



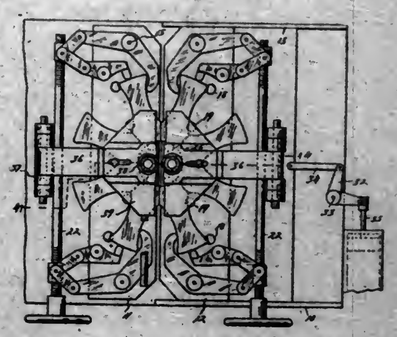
1. A reel for a motion picture apparatus comprising a pair of disks, a hub part connected with the central parts of the disks, a member of resilient material surrounding the hub part and having a slot therein for receiving the inner end of the film placed on the reel.

1,750,521. APPARATUS FOR MAKING WHEEL SPIDERS. IRVING H. JUDD, Detroit, Mich., assignor to Whitehead and Kales Company, River Rouge, Mich., a Corporation of Michigan. Original application filed Jan. 17, 1927, Serial No. 161,669. Divided and this application filed May 7, 1928. Serial No. 275,936. 14 Claims. (Cl. 113—104.)



1. In welding apparatus for forming wheel spiders, a work holding fixture comprising articulated levers, cooperating stops, and means for operating said levers to engage the work.

1,750,522. METHOD OF MANUFACTURING WHEEL SPIDERS. IRVING H. JUDD, Detroit, Mich., assignor to Whitehead and Kales Company, River Rouge, Mich., a Corporation of Michigan. Original application filed Jan. 17, 1927, Serial No. 161,669. Divided and this application filed May 7, 1928. Serial No. 275,937. 2 Claims. (Cl. 29—174.)



1. The method of manufacturing wheel spiders including the steps of arranging individual spokes in pairs on a table and welding the spokes of each pair together so that a plurality of quarter units are produced simultaneously, arranging a plurality of said quarter units as half units upon the table and welding together adjacent spokes of each quarter to form a plurality of half units simultaneously, and arranging two half units on the table and welding together adjacent spokes of said half units to form a complete spider.

1,750,523. NUT-LOCKING DEVICE. ALOIS KASCHTOFSKY, Prague, Czechoslovakia. Filed May 15, 1928. Serial No. 277,862. 3 Claims. (Cl. 151—4.)

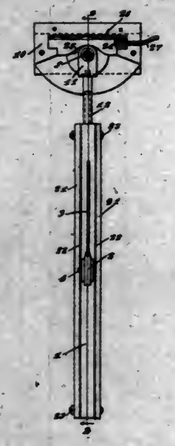


1. A device for securing nuts to bolts, comprising a hollow centrally apertured body portion fitting cap-like on the top and sides of the nut, and an upwardly-extending tubular piece composed of an annular series of longitudinal bendable teeth, whereby diametrically opposite ones of said teeth registering with a diametric slot in the bolt to which the nut is applied can be bent into locking engagement with said slot.

1,750,524. WINDSHIELD WIPER. CHARLES J. KIMMICK, Jr., Rahway, N. J. Filed Mar. 8, 1929. Serial No. 345,339. 2 Claims. (Cl. 15—255.)

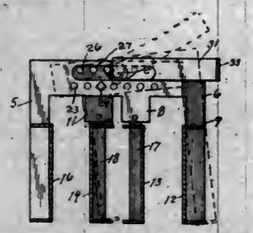
1. A wiper of the class described comprising a wiper arm, a heating coil therein, a shaft, a rod connecting the shaft with the wiper arm, means for grounding one end of the coil on the wiper arm which is electrically connected with the rod and the shaft, an insulated bushing through which the shaft passes, a member rotatably arranged on the bushing, a stem connected with the member and with the upper end of the wiper arm, means for electrically

connecting the other end of the coil with the stem, said stem being insulated from the wiper arm, a casing sur-



rounding the bushing, a spring pressed block arranged in the casing and bearing against the rotary member and a conductor connected with the block.

1,750,525. MOLD-FORM CLAMP. HAMPTON M. KISHPAUGH, Courtland, Calif. Filed Mar. 5, 1928. Serial No. 259,243. 1 Claim. (Cl. 25—131.)



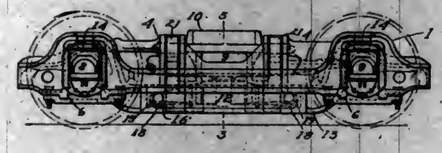
In a clamp of the character described, a pair of overlapping clamp members, each of said clamp members having an integral outer leg and a detachable inner leg, said detachable inner legs being so positioned that they will lie between the integral outer leg and inner detachable leg of the opposite clamping member, means for pivoting said clamping members to each other, means for rotating said clamping members on their pivotal connection for holding said legs in parallel position, said last mentioned means including an operating handle, a cam positioned on said operating handle, said cam being adapted to pivot on one of said clamping members and to engage in a slot in the opposite of said clamping members for the purpose specified.

1,750,526. ROOF FLASHING. ROBERT F. KNOX, Atlanta, Ga. Filed Dec. 9, 1927. Serial No. 238,950. 1 Claim. (Cl. 108—26.)



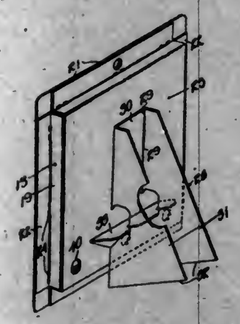
A flashing lock strip comprising a sheet having one edge bent at substantially right angles to the body and with the opposite edge bendable in an opposite direction, the distance between the angles of the two bends being substantially the width of a brick so that the strip can be placed in a brick wall with the right-angled edge embracing the angle of the brick with the other angle aligned with the front face of the brick and inclined downwardly in the direction it is to be bent, the body of the strip between the angles of the two edges being provided with a plurality of downwardly pressed projections spaced from the forward edge to provide a groove for freely receiving the edge of a cooperating flashing strip.

1,750,527. LOCOMOTIVE TRUCK. CHARLES F. KRAUSS, Ambler, and HENRY K. HARWICK, Darby, Pa. Filed Apr. 2, 1929. Serial No. 351,964. 5 Claims. (Cl. 105—189.)



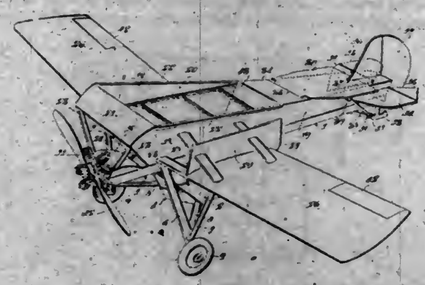
1. The combination in a four-wheeled truck, of a frame made as an integral casting and having two side members at each side thereof; cross-ties and end connecting members; pedestals for axle boxes, said members being connected by a web at the centre; an equalising beam located below the opening in the frame and extending into the opening and having portions extending above and resting upon the boxes, said beam having spring seats; and a spring, the ends of which rest upon the spring seats and the centre of which is adapted to seat in the frame.

1,750,528. ARTICLE DISPLAYING AND VENDING CABINET. GEORGE A. KREBS, Memphis, Tenn., assignor, by mesne assignments, to Plough, Inc., Memphis, Tenn., a Corporation of Delaware. Filed Apr. 3, 1929. Serial No. 352,239. 3 Claims. (Cl. 312—42.)



1. A display cabinet or carton comprising a relatively stiff front member, a compartment forming member secured to the rear face of the front member and including a body having a plurality of transverse folds disposed longitudinally of the front member defining rectangular compartments disposed in slightly spaced parallel relation and of a depth to house articles therein, the ends of said compartments being closed by portions formed integrally with the compartment forming blank and secured to the front member of the cabinet, and means for supporting the cabinet in a position for displaying articles contained therein, substantially as set forth.

1,750,529. AEROPLANE. EDWARD H. LANIER, Miami, Fla. Filed Oct. 14, 1929. Serial No. 399,632. 27 Claims. (Cl. 244—12.)



25. In an aeroplane, a body including a cabin, wings extending laterally from the cabin but spaced apart to provide air passages, elevators, and a rudder at the rear of said body, said body having an open top chamber above the cabin between the wings and having an air deflecting nose at the front of said chamber for the purposes described.

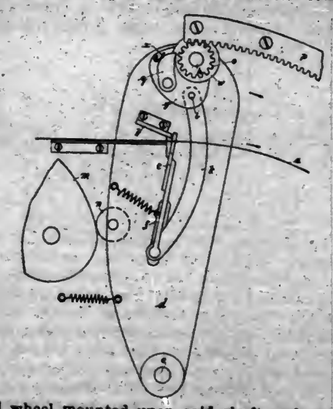
1,750,530. COMBINED EYEDROPPER AND EYEWASH CUP. LOUIS T. LA PAUGH and ELIZABETH C. SHEA, Oakland, Calif. Filed July 11, 1928. Serial No. 291,955. 3 Claims. (Cl. 128—249.)



1. In a combined eye dropper and eye wash cup, a cup portion having a conformation adapted to fit the eye socket and being provided with an opening in the base thereof, a sac carrying tube slidably positioned in the opening of the cup and having a shoulder adjacent its end adapted to contact the base of said cup and an adjustable member carried by said tube and positioned thereon exteriorly of said cup, whereby the shoulder of the tube is tightened against the base of said cup.

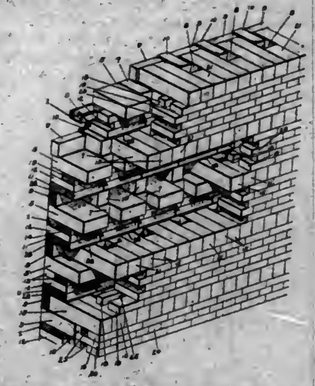
1,750,531. CUTTING DEVICE FOR TRANSVERSELY CUTTING MOVING PAPER WEBS. EDMUND LICHTENSTEIN, Berlin, Germany, assignor to the Firm: Deutsche Maschinenbau- und Vertriebs-Gesellschaft m. b. H., Berlin, Germany. Filed Sept. 26, 1925, Serial No. 58,910, and in Germany Nov. 11, 1924. 7 Claims. (Cl. 164—40.)

1. A cutting device for transversely cutting moving paper webs in duplicators operating upon the offset principle comprising an oscillatory frame, a shaft upon said frame, means for moving said frame with said moving web, fixed and movable cutters mounted in the frame, and means for operating said movable cutter comprising a



toothed wheel mounted upon said shaft and a stationary rack co-operating with said wheel, said operating means acting in response to the movement of said frame.

1,750,532. FIRE WALL. MICHAEL LIPTAK, St. Paul, Minn. Filed Nov. 1, 1928. Serial No. 316,513. 19 Claims. (Cl. 72—102.)



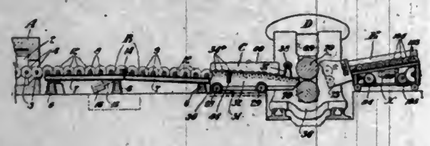
1. A permanent wall and a replaceable wall spaced therefrom, headers extending into both walls and across the space between them, and elements as part of the permanent wall arranged below the first mentioned headers as supports and extending into the space between the walls, but not into the replaceable wall.

1,750,533. TAKE-UP DEVICE FOR RIBBON LOOMS. GUSTAV LÜDORF, Barmen, Germany, assignor to Artur Schulte, Velbert, Rhineland; Karl Küch, Barmen; and Wilhelm Hof, Elberfeld, Germany. Filed Dec. 28, 1927, Serial No. 243,158, and in Germany July 26, 1926. 2 Claims. (Cl. 139—305.)



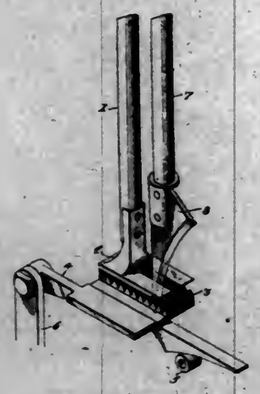
1. A take up device for weaving curved ribbon, including in combination, a flat surface for supporting the ribbon and take up means cooperating with said support and rotatable on an axis coincident with the center of curvature of the ribbon to move the ribbon over the support in the direction of its curvature.

1,750,534. SHEET-MAKING APPARATUS. ARTHUR R. MCARTHUR, Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 21, 1928. Serial No. 263,572. 5 Claims. (Cl. 29—17.)



5. The combination with a sheet hot mill, of a continuous heating furnace for supplying heated sheets to said mill, a conveying table for receiving the heated sheets from said furnaces, an automatic mechanical feeding table for feeding the sheets into the bite of the hot mill rolls, said feeding table including a plurality of power operated conveying rollers inclined downwardly toward said mill so as to feed said sheets by combined gravity and power, and side guides on said feeding table for guiding the hot sheets square into said mill, said guides being adjustable for various sizes of sheets, and an automatic mechanical catcher on the exit side of said mill for catching and gaging the rolled sheets, said catcher being adapted to return all sheets under a predetermined gage to said feeding table for rerolling.

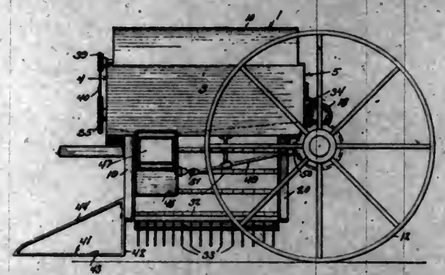
1,750,535. MECHANICAL MEANS FOR SEVERING OR TRIMMING THE EDGES OF CARPETS. ALFRED F. MCCOLLUM, Bloomsburg, Pa., assignor to The Magee Carpet Co., Bloomsburg, Pa., a Corporation of Pennsylvania. Filed Mar. 23, 1926. Serial No. 96,897. 2 Claims. (Cl. 164—48.)



2. In a fabric-cutting machine, the combination with a vertically reciprocatory blade having an inclined cutting edge, of cooperating elements adapted respectively to engage the top and bottom of the fabric at points immediately adjacent the said blade for anchoring the fabric during the cutting operation, and mechanism including one of said elements for intermittently advancing the fabric with respect to and in timed relation with the movements of said blade.

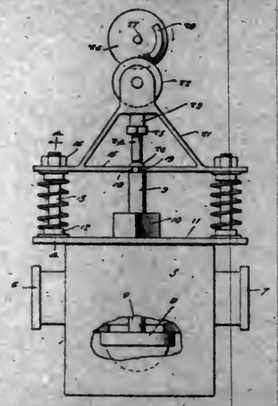
1,750,536. COTTON-BOLL PICKER. ALBERT B. MCDONALD, Vernon, Tex. Filed Dec. 27, 1926. Serial No. 157,397. 2 Claims. (Cl. 56—49.)

1. A cotton boll picker comprising a wheel supported housing, a pair of columns secured to and depending from each of the front and rear walls of the housing and provided at their lower ends with bearings and at their upper ends with vertical slots, bearing blocks slidably arranged in said slots, brackets secured to and extending upwardly from the upper ends of the columns, adjusting screws having threaded engagement with the brackets and extending into said slots and connected to the bearing blocks, lower rollers journaled in the bearings, upper rollers jour-



naled in the bearing blocks, a belt passing over each vertically alined pair of rollers and provided with picker fingers, cylinders arranged above the upper rollers and journaled in the brackets and provided with brush fingers, means establishing driving connections between the wheels and upper rollers, and means establishing driving connections between the upper rollers and the cylinders.

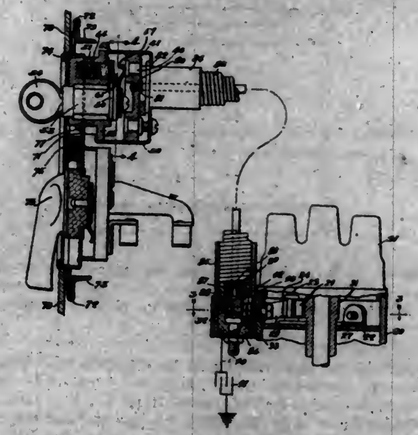
1,750,537. VALVE-OPERATING MECHANISM. DANIEL J. MURRAY, Chicago, Ill., assignor of one-half to Thomas Gasparic, Chicago, Ill. Filed Jan. 12, 1928. Serial No. 246,255. 1 Claim. (Cl. 137—145.)



A mechanism of the class described comprising a plate adapted to be mounted on a valve, bolts projecting from the plate, a second plate having openings for slidably receiving the bolts, nuts on the bolts to limit the movement of the second plate, springs about the bolt to hold the plates separated, means for attaching a valve stem to the second plate, a frame rising from the second plate, a roller journaled in the frame, a wheel having a cam thereon engageable with the roller so that the second plate may be moved toward said first-mentioned plate, said frame having a hollow boss projecting therefrom, a stem threaded in the boss so that the boss may be adjusted with respect to the second plate for clamping the valve stem thereto.

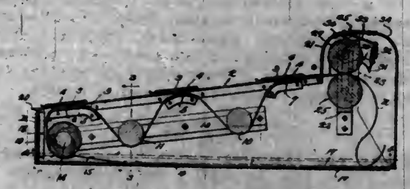
1,750,538. LOCK SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Aug. 5, 1927. Serial No. 210,904. 9 Claims. (Cl. 200—19.)

1. Theft-preventing apparatus for automobiles comprising, in combination, an ignition lock switch, an ignition timer having a threaded terminal member, a wire armor, connected with the lock switch and communicating with its case, an electric conductor insulatingly supported within the armor adjacent its other end and having threaded means cooperating with the threaded terminal to provide



for connecting the conductor and terminal by bodily rotating the timer and the armor relative to each other, a wire connected with said conductor and extending through the armor and connected within the switch case with one of the switch contacts, said switch having means for grounding said wire when in the ignition-circuit open position.

1,750,539. RECORDING MACHINE. RUDOLPH H. PAULSON, Colfax, Wis. Filed Mar. 16, 1929. Serial No. 347,669. 3 Claims. (Cl. 281—8.)

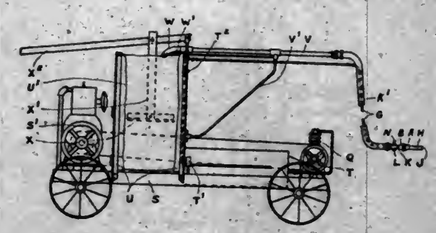


1. Apparatus of the class described including a casing having a transverse window, a closure for the window, rolls in the casing, a guide under the window and between the rolls, means for supporting a rolled record strip in one end portion of the casing, said strip being adapted to extend over the guide and under the rolls, feed rolls in the casing for the reception of the record strip therebetween, means for binding said rolls upon the strip, means for rotating the rolls to draw the strip longitudinally across the window, and means for holding the strip against free and unrestrained movement, said means including a removable bottom plate slidably connected to the casing, and springs carried by said plate for wedging engagement with a rolled record strip.

1,750,540. MANUFACTURE OF RUBBER. UGO PESTALOZZA, Milan, Italy, assignor to Società Italiana Pirelli, Milan, Italy. Filed Mar. 9, 1929, Serial No. 345,901, and in Italy Mar. 13, 1928. 12 Claims. (Cl. 18—58.)

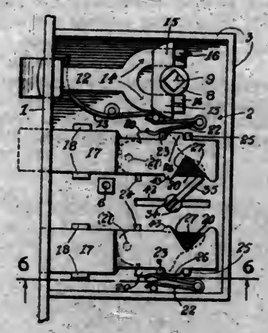
1. The process of manufacture of rubber articles from latex which comprises adding to the latex a suitable proportion of an aromatic disubstituted guanidine and then subjecting the latex to local heating to the forming temperature at the surface whereat the rubber is to be formed so as there to produce a local thickening of the latex and the formation therefrom at said surface of a layer of compact coagulated rubber.

1,750,541. AIR-BLAST COTTON PICKER. WILLIAM ALEXANDER PRESTON, Brisbane, Queensland, Australia. Filed Nov. 24, 1926. Serial No. 150,568. 6 Claims. (Cl. 56—13.)



1. In an air blast cotton picker, a pipe, a chamber formed in the wall of said pipe, a passage leading from said chamber to within said pipe, said passage being arranged diagonally towards the outlet of said pipe, as and for the purposes herein set forth.

1,750,542. LOCK AND KEY STRUCTURE. FELIX PUCEK, Chicago, Ill., assignor of one-third to Frank Diblick and one-third to John Forman, Chicago, Ill. Filed July 8, 1926. Serial No. 121,168. 1 Claim. (Cl. 70—75.)

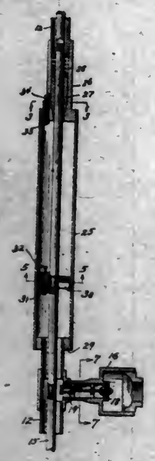


A lock comprising a casing having a key opening and provided at one side of said opening with spaced lugs, said lugs being located one at one side of the point midway between the ends of the key opening and the other at the opposite side of said point, a bolt slidably mounted between said lugs and having at its edge an extension, said bolt having one side portion cut away forming a recess, a latch plate pivoted to the bolt at a point within said recess and having at its edge a lug disposed transversely across the bolt and located at a point between the pivot of the bolt and one of the first-mentioned lugs carried by the casing, and the bolt having at its edge adjacent the key opening a cut away recess provided with inclined side edges.

1,750,543. PRESSURE HEAD. JOHN F. PULFORD, Boise, Idaho, assignor of one-half to Daniel F. Hackett, Boise, Idaho. Filed Apr. 20, 1928. Serial No. 271,512. 1 Claim. (Cl. 103—9.)

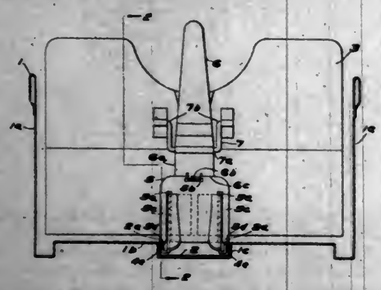
In a hydro-pneumatic pumping system, a pump including a drop pipe and a plunger rod operating therein, a storage tank, a supply pipe extending from the drop pipe and having communication with said tank, a check valve to control communication between the drop pipe and supply pipe, and a pressure head located in the drop pipe above

the supply pipe, said head including a pressure cylinder of relatively large diameter having its opposite ends connected to and in communication with the drop pipe, a plunger carried by the plunger rod of the pump and operat-



ing within the pressure cylinder, a valve controlled air inlet for the pressure cylinder, a check valve for the plunger, and a tapered yieldingly seated combined plunger rod guide and packing surrounding the plunger rod at the juncture of the pressure cylinder and drop pipe.

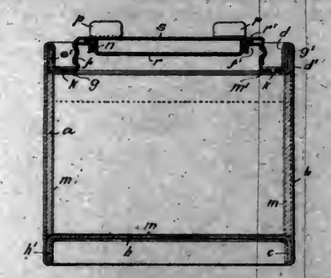
1,750,544. FILE FOLLOWER. FRED A. SCHMITZ, Canton, Ohio, assignor to The Berger Manufacturing Company, a Corporation of Ohio. Filed June 8, 1929. Serial No. 369,284. 3 Claims. (Cl. 129—29.)



1. In combination with a drawer having a track therein provided with inturned flanges, a file follower adapted to be moved longitudinally along said track and comprising a resilient sheet-metal follower board capable of being flexed, shoes secured to said follower board and having portions which underlie said inturned flanges, a clutch plate having portions overlying said inturned flanges, and toggle means for moving the clutch plate toward or away from the portions of the shoes which underlie said inturned flanges to thereby lock the follower board against longitudinal displacement or release the same, operation of the toggle means being permitted by the flexing of said follower board.

1,750,545. PACKING CONTAINER. GEORG STABERNACK and RICHARD STABERNACK, Offenbach-on-the-Main, Germany. Filed June 28, 1928, Serial No. 288,884, and in Germany July 8, 1927. 5 Claims. (Cl. 229—5.5.)

1. A packing container, comprising in combination, a card board lid, the inner edge of which is folded over, a sheet metal ring having an upwardly bent outer edge engaging between the folded inner edge of said lid, an inner upwardly bent flange on said ring, which flange is



threaded to form a screw neck, the upper edge of said inner bent flange being bent horizontally and then downwardly, and a screw cap threaded on said screw neck.

1,750,546. CORN-HUSKING MECHANISM. HENRY SYNCK, Coldwater, Ohio, assignor to The New Idea Spreader Company, Coldwater, Ohio, a Corporation of Ohio. Filed Aug. 20, 1928. Serial No. 300,692. 9 Claims. (Cl. 130—5.)



3. In a corn husking mechanism, husking rolls, an endless apron comprising sprocket chains and cross connecting strips, sprocket wheels about which said chains are passed, the lower run of said apron being permitted to sag, and means for intermittently tightening the said chains to relieve a portion of the sag of said apron.

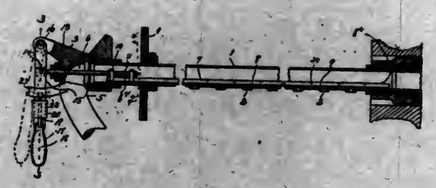
1,750,547. TOY VEHICLE. FRANK F. TAYLOR, Norwood, Ohio. Filed Jan. 31, 1924. Serial No. 689,787. 4 Claims. (Cl. 155—22.)



1. In a toy vehicle of the character specified, a board forming the seat with wheels for supporting the same at the rear, an upright rotatably mounted post at the front provided with connecting means for supporting and guiding a single wheel, caster mounting element with two widely interspaced caster wheels to give a wide wheel base having means for securing it to the vehicle interchangeably with said single wheel, and a guard ring to hold and protect the user, provided with means for engaging and locking the post when the caster element is used.

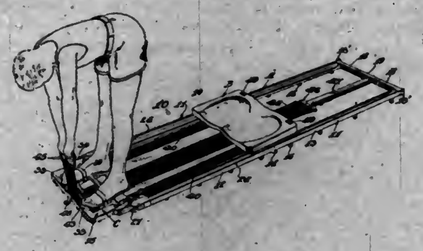
CARNEGIE LIBRARY OF ATLANTA

1,750,548. BOILER CLEANER. WILLIS P. THOMAS, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed Apr. 16, 1928. Serial No. 632,837. 17 Claims. (Cl. 122—392.)



1. The combination with a rotatable blower pipe having a plurality of discharge openings, of a member adjustable within said pipe closing all of said openings in one position and different groups of said openings in other positions, and means for imparting rotation to said pipe.

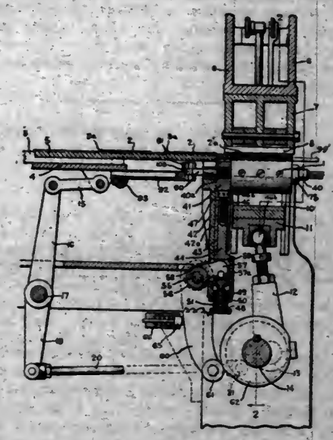
1,750,549. EXERCISING APPARATUS. JOHN MALCOLM THOMSON, Long Island City, N. Y., and PETER HARDY, Bridgeport, Conn. Filed Nov. 7, 1927. Serial No. 231,640. 4 Claims. (Cl. 272—72.)



1. An exercising apparatus comprising a track, a seat movable over said track, a foot rest at the forward end of said track, pulleys on said track adjacent said foot rest, elastic cables having their ends respectively attached to said seat and to a stationary part at the forward end of said track, elastic pull cables attached to the rear end of said track and extending forward about said pulleys, and hand grips attached to the free ends of said elastic pull cables.

1,750,550. EXPANDER AND CLAMP MECHANISM FOR CAN-BODY MACHINES. NELSON TROYER and PAUL E. PEARSON, Seattle, Wash., assignors to Seattle Astoria Iron Works, Seattle, Wash., a Corporation of Washington. Filed Oct. 1, 1928. Serial No. 309,662. 16 Claims. (Cl. 113—11.)

1. In a can body forming machine, a forming horn comprising a central body portion, side plates fitted thereto and adapted for outward and inward adjustment, horn expanding means, leaf springs disposed lengthwise within the horn and centrally attached to the horn body and engaging at their opposite ends with the side plates to draw them inwardly against the central portion and means

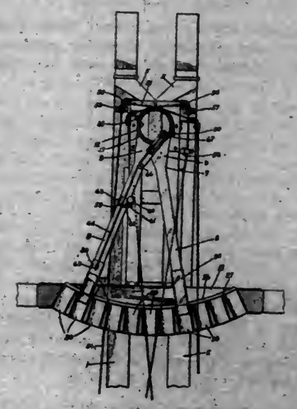


interposed between the expanding means and side plates for moving the plates outwardly incident to movement of the bar.

1,750,551. METHOD FOR SYNTHETICALLY PRODUCING AMMONIA FROM ITS ELEMENTS. GEORG FRIEDRICH UHDE, Bovinghausen, Germany. Filed June 30, 1927, Serial No. 202,747, and in Germany July 2, 1926. 8 Claims. (Cl. 23—199.)

1. In the process of synthesizing ammonia from a gaseous nitrogen-hydrogen mixture, the step which comprises contacting the gaseous mixture with a catalyst comprising a complex cyanide containing combined alkali-metal, aluminum and iron.

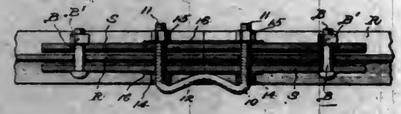
1,750,552. DISTRIBUTING APPARATUS. EMIL C. UMBREIT, Rocklake, N. Dak. Filed Oct. 22, 1928. Serial No. 314,147. 8 Claims. (Cl. 214—16.)



2. In combination with an elevator leg a structure providing a row of passages, a hollow cylindrical structure supported above said passages and having an arcuate opening in the lowermost portion of its wall, a spout having an upper open end engaged with the outer surface of the cylindrical structure and in register with said arcuate opening, means securing the spout to the support for pendular motion about the support as a center, a

spout extension translatable upon said spout to enter any passage when aligned therewith, and a spout establishing communication between the delivery end of said leg and said arcuate opening to deliver therethrough, the areas of the arcuate opening and of the upper open end of the pendular spout being such that delivery communication is maintained for all angular positions of said pendular spout.

1,750,553. RAIL BOND. ROBERT S. WALLACE, Pocahontas, Va. Filed Feb. 11, 1927. Serial No. 167,463. 1 Claim. (Cl. 173—262.)



A rail bond and splice embodying in combination with joined rails, splice bars at opposite sides of and across the joined rail ends, and a readily removable rail bonding and splice securing member comprising a bar of electrical conducting material formed into approximately U-shape to provide spaced bolt members connected at one end by a bridge forming base, said bolt members extended transversely through the splice bars and rails at opposite sides of the rail joint with the base bridging the rail joint, clamping members on said bolt members at the inner ends thereof adjacent said connecting base, an electrical conductor plate mounted over and across said bolt members between said clamping members and the adjacent splice bar, an electrical conductor plate mounted over and across the outer extended ends of said bolt members, nuts on the outer ends of said bolt members with the splice bars, rails ends and conductor plates clamped between said nuts and clamping members, and the said bridge forming base extended inwardly between said clamping members to provide the intermediate portion thereof positioned within and between said clamping members and in electrical contact with the adjacent conductor plate, the said rail bonding and splice securing member with the conductor plates being removable from the rail splice without injury for reuse.

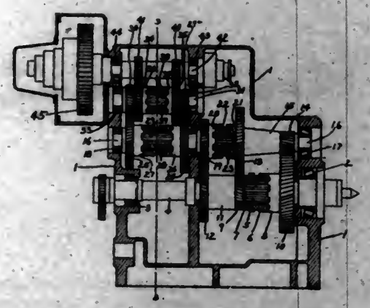
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1. An arrangement for lining the bores of joints particularly for use in connection with railway shunts including a one piece bushing having a slot extending parallel to its axis, the walls of said slot extending in converging planes in the axial direction of the bushing, and a wedge member adapted to be driven into the slot in the axial direction of the bushing whereby to cause the latter to firmly press against the wall of a member receiving it, and external screw threads on said bushing adapted to be fitted into a member receiving the latter.

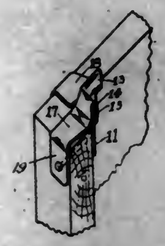
1,750,555. GEARED HEADSTOCK FOR LATHES. WENDELL E. WHIPP, Sidney, Ohio, assignor to The Monarch Machine Tool Company, Sidney, Ohio, a Corporation of Ohio. Filed May 21, 1928. Serial No. 279,383. 3 Claims. (Cl. 74—69.)

3. A geared headstock for lathes, comprising an initial driving shaft, a first intermediate shaft, a second intermediate shaft and a spindle, gears fixed on the initial driving shaft, gears loosely mounted on the first intermediate shaft in mesh with the fixed gears, fixed gears on the last named shaft, loose gears on the second intermediate shaft, two of said gears being in mesh with the fixed gears on the first intermediate shaft, loose gears on the spindle in mesh with some of the loose gears on



the second intermediate shaft, clutches splined on the first and second intermediate shafts and the spindle, free to be moved into operative relation with the selected gears thereon to provide different gear ratios between the initial driving shaft and the spindle, and a four lever control for said clutches.

1,750,556. CORNER IRON FOR BOXES. RICHARD M. WILDBERG, Cincinnati, Ohio, assignor, by mesne assignments, to United Milk Crate Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed June 17, 1926. Serial No. 116,680. 1 Claim. (Cl. 217—69.)

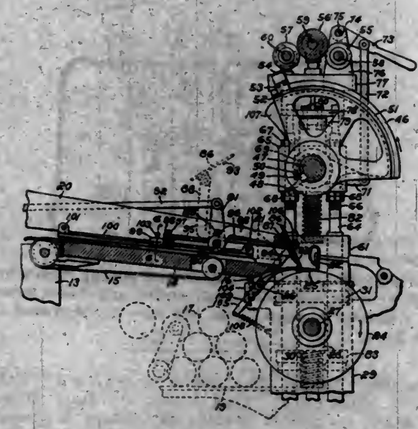


A corner iron for open boxes, formed substantially without waste from an integral blank of sheet metal cut and scored to fold longitudinally to form sides, with tongues integral with the sides folded to form a pair of upwardly two ply return bent projecting portions to form stacking guides and then horizontally and downwardly to fit over corners of a wooden box, with rivet openings in the respective sides and tongues for riveting metal to metal.

1,750,557. PRINTING PRESS. FRANK T. WOOD, Brookline, Mass., assignor to American Bank Note Company, New York, N. Y., a Corporation of New York. Filed July 10, 1928. Serial No. 291,526. 20 Claims. (Cl. 102—214.)

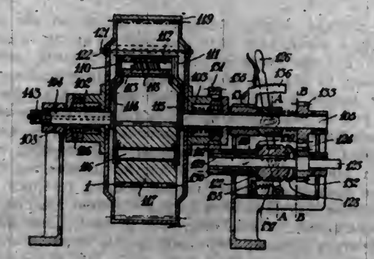
1. In a printing press, the combination of a printing couple including an impression cylinder and a type-carrier, the former being above the latter, an auxiliary type

carrier coacting with said impression cylinder above the latter, a feed board along which a sheet is fed toward said impression cylinder, a support which supports said



sheet between said feed board and said impression cylinder, and means for moving said support toward and from said impression cylinder.

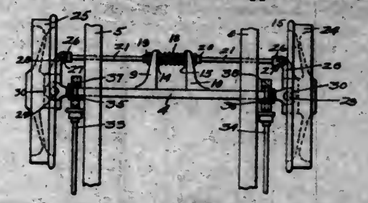
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1. A machine of the character described comprising a rotatable drum having a cylindrical peripheral wall and two vertical side walls, said cylindrical wall being provided with a port and a closure therefor to allow introduction and removal of the material to be treated or having been treated in the drum, a roller within said drum extending substantially along the entire axial length of the drum, two horizontal shafts, each extending through an individual one of the side walls of the drum, means secured to said shafts to carry a spindle within said drum eccentrically with respect to the axis of the drum so as to allow it to move in a circular path parallel to the peripheral wall of the drum due to relative rotation of the shafts and the drum, and a pair of arms loosely mounted on said spindle to carry said roller.

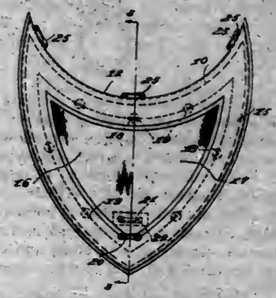
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1. In an axle structure having wheel mounting knuckles at its opposed ends, means on said axle for supporting a shaft, said shaft having opposed threads near its center and being pivotally connected at its opposite ends to said



wheel knuckles, a spring around said shaft between said first-mentioned means, and means threaded on said shaft for retaining said spring in position.

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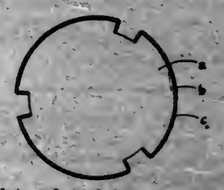


1. A reversible shield of the character described comprising two substantially triangular sections each having one edge thereof curved to correspond to the curvature of the sleeve opening of a garment, a pivotal connection between said sections at said edges affording longitudinally spaced openings and securing elements connected to the sections at the openings and movable through the openings to lie between the sections in either position thereof.

1,750,561. STERILIZING OF WATER. OSCAR ADLER and RUDOLF ADLER, Karlsbad, Czechoslovakia. Filed June 11, 1928, Serial No. 284,678, and in Czechoslovakia June 13, 1927. 5 Claims. (Cl. 210—28.)

1. A process for sterilizing water by means of chlorine comprising first passing the chlorine containing water over substances which cause the heavy metal compounds dissolved in the water to separate out and thereupon over carbon in sufficient quantity to quantitatively and continuously convert the excess of chlorine into the chlorine ion.

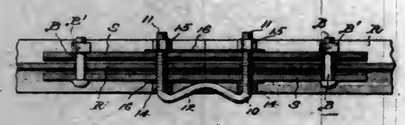
1,750,562. PRINTING SURFACE. PETER ALLMAN, Manchester, England. Filed Mar. 16, 1929, Serial No. 347,708, and in Great Britain Feb. 16, 1928. 1 Claim. (Cl. 101—395.)



A printing plate, adapted for use on cylinders of printing presses, and a backing on said plate comprising a resilient layer of hardened bituminous composition closely adherent to the plate.

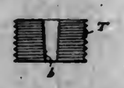
spout extension translatable upon said spout to enter any passage when aligned therewith, and a spout establishing communication between the delivery end of said leg and said arcuate opening to deliver therethrough, the areas of the arcuate opening and of the upper open end of the pendular spout being such that delivery communication is maintained for all angular positions of said pendular spout.

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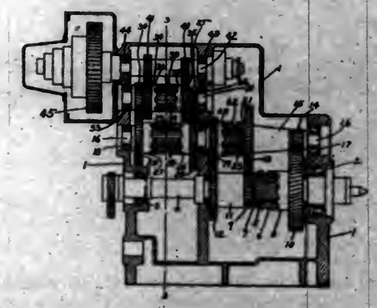
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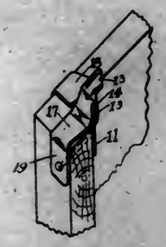
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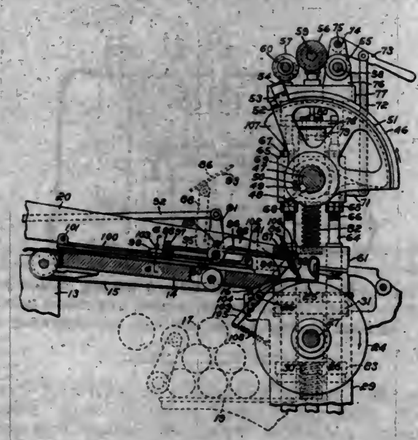
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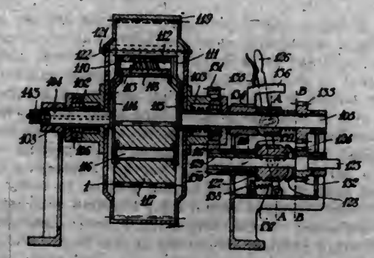
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1. In a printing press, the combination of a printing couple including an impression cylinder and a type-carrier, the former being above the latter, an auxiliary type carrier coacting with said impression cylinder above the latter, a feed board along which a sheet is fed toward said impression cylinder, a support which supports said



sheet between said feed board and said impression cylinder, and means for moving said support toward and from said impression cylinder.

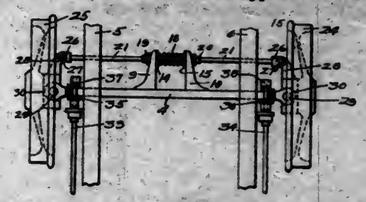
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1. A machine of the character described comprising a rotatable drum having a cylindrical peripheral wall and two vertical side walls, said cylindrical wall being provided with a port and a closure therefor to allow introduction and removal of the material to be treated or having been treated in the drum, a roller within said drum extending substantially along the entire axial length of the drum, two horizontal shafts, each extending through an individual one of the side walls of the drum, means secured to said shafts to carry a spindle within said drum eccentrically with respect to the axis of the drum so as to allow it to move in a circular path parallel to the peripheral wall of the drum due to relative rotation of the shafts and the drum, and a pair of arms loosely mounted on said spindle to carry said roller.

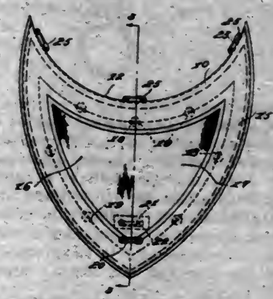
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1. In an axle structure having wheel mounting knuckles at its opposed ends, means on said axle for supporting a shaft, said shaft having opposed threads near its center and being pivotally connected at its opposite ends to said



wheel knuckles, a spring around said shaft between said first-mentioned means, and means threaded on said shaft for retaining said spring in position.

1,750,560. CLOTHING SHIELD. JOSEPH ABRAMOFSKY, Toledo, Ohio. Filed Apr. 11, 1929. Serial No. 354,898. 4 Claims. (Cl. 2—56.)

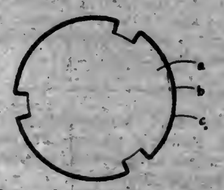


1. A reversible shield of the character described comprising two substantially triangular sections each having one edge thereof curved to correspond to the curvature of the sleeve opening of a garment, a pivotal connection between said sections at said edges affording longitudinally spaced openings and securing elements connected to the sections at the openings and movable through the openings to lie between the sections in either position thereof.

1,750,561. STERILIZING OF WATER. OSCAR ADLER and RUDOLF ADLER, Karlsbad, Czechoslovakia. Filed June 11, 1928, Serial No. 284,678, and in Czechoslovakia June 13, 1927. 5 Claims. (Cl. 210—28.)

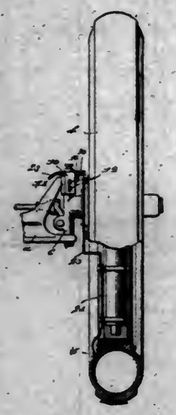
1. A process for sterilizing water by means of chlorine comprising first passing the chlorine containing water over substances which cause the heavy metal compounds dissolved in the water to separate out and thereupon over carbon in sufficient quantity to quantitatively and continuously convert the excess of chlorine into the chlorine ion.

1,750,562. PRINTING SURFACE. PETER ALLMAN, Manchester, England. Filed Mar. 16, 1929, Serial No. 347,708, and in Great Britain Feb. 16, 1928. 1 Claim. (Cl. 101—395.)



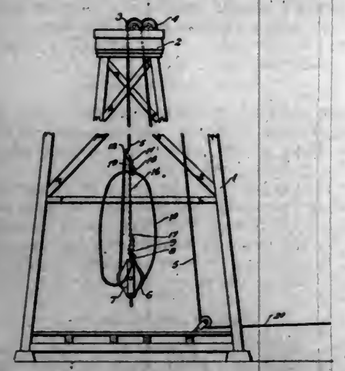
A printing plate, adapted for use on cylinders of printing presses, and a backing on said plate comprising a resilient layer of hardened bituminous composition closely adherent to the plate.

1,750,563. TIRE-DEFLATION SWITCH. JOSEPH BERGER, Carson City, Nev. Filed Jan. 24, 1927. Serial No. 163,173. 4 Claims. (Cl. 200—58.)



1. A circuit closure comprising a two-part clamp to be attached to a part of the running gear of a motor vehicle, a hollow cylindrical portion formed at one end of one part of said clamp, a contact extension formed at one end of said cylindrical portion, a resilient contact member supported within the said cylindrical portion and insulated therefrom and having a portion cooperative with the said contact extension, and means for flexing said resilient contact member to make and break the circuit between the same and said contact extension.

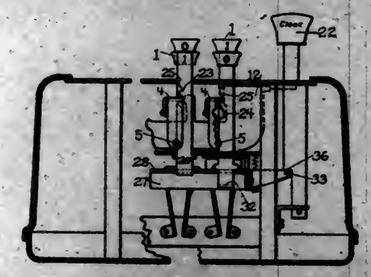
1,750,564. TUBING-LINE ATTACHMENT. ALBERT L. BILLENWILLMS, Augusta, Kans. Filed Dec. 10, 1928. Serial No. 325,112. 7 Claims. (Cl. 254—135.)



1. A line tie chain for oil well rigs comprising an elongated cable engaging bar, a flexible connection suspended from one end of the bar having pulley block engaging means and a flexible connection connected to the bar for engaging a bight in the line.

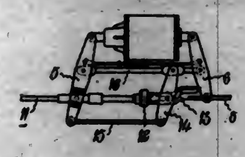
1,750,565. ZERO-KEY MECHANISM FOR KEY-SET REGISTERS. EDWIN F. BRITTEN, Jr., Maplewood, N. J., assignor, by mesne assignments, to Munroe Calculating Machine Company, Orange, N. J., a Corporation of Delaware. Filed Sept. 22, 1925. Serial No. 57,868. 7 Claims. (Cl. 235—79.)

1. Selecting mechanism for key-set calculating machines, including a plurality of columns of digital value and zero keys, holding means for each column, said keys being each adapted when depressed to be so held by the related holding means and each further adapted



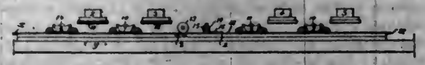
upon depression to move the related holding means and release any set key of the same column, and means including a member common to the zero keys for depressing all zero keys.

1,750,566. BRAKE RIGGING FOR RAILWAY CARS AND THE LIKE. BERT HENRY BROWALL, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a Corporation of Sweden. Filed Dec. 23, 1927, Serial No. 242,195, and in Germany Feb. 24, 1927. 5 Claims. (Cl. 188—53.)



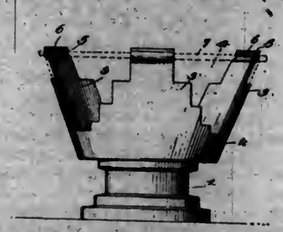
1. A brake rigging, especially designed for use on cars having a small axle base, comprising an air brake cylinder, a brake lever having a fixed fulcrum positioned adjacent to one end of the brake cylinder, another brake lever having a floating fulcrum positioned at the opposite end of said cylinder, a third brake lever positioned intermediate two first mentioned brake levers and also provided with a floating fulcrum, a connecting rod between all of the levers and another connecting rod between both of the levers having floating fulcrums, a pull rod connected to the lever having the fixed fulcrum, a pull rod connected to the intermediate lever, and an automatic slack adjuster interposed in this lastmentioned pull rod.

1,750,567. APPARATUS FOR MAKING MOTTLED FLOOR COVERINGS. NEIL L. CAMPBELL, Salem, N. J., assignor to Mannington Mills, Inc., Salem, N. J., a Corporation of New Jersey. Original application filed Apr. 16, 1928, Serial No. 270,346. Divided and this application filed Apr. 2, 1929. Serial No. 351,985. 7 Claims. (Cl. 41—1.)



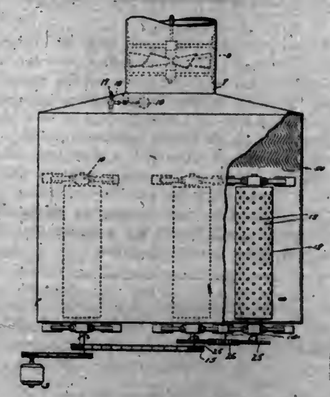
1. In a printing machine for floor coverings and the like the combination of a plurality of printing elements adapted to engage the surface of a web of base material passing between said printing elements and an adjacently positioned platen, a series of irregularly shaped printing fins on one of said printing elements, a series of rectilinear printing fins on another of said printing elements, means for supplying paint to the web engaging surfaces of said printing fins, and means for interspersing and blending the paint deposits placed on the web by said printing fins.

1,750,568. DISH HOLDER. HERMAN CAREW, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Jan. 6, 1930. Serial No. 418,811. 2 Claims. (Cl. 65—61.)



1. A dish holder of the character described including a body portion having upwardly extending arms, each of the arms having a circumferentially extending groove formed in its inner face to receive a bead formed around the upper edge of the dish.

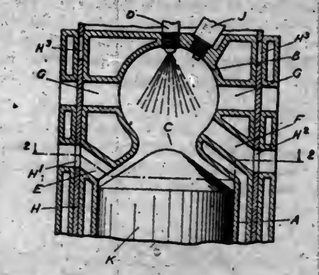
1,750,569. HUMIDIFYING APPARATUS. JOHN W. CHASON, Chandler, Aris. Filed June 11, 1928. Serial No. 284,616. 1 Claim. (Cl. 261—92.)



A humidifying apparatus comprising a spray tank having a liquid reservoir formed in its lower portion and provided with air intake and discharge openings at its opposite sides and above said reservoir, a plurality of spray drums rotatably mounted in the tank and with a portion of each drum submerged in the liquid of the reservoir and adapted through the rotation thereof to form a spray in the upper portion of the tank, a suction fan mounted adjacent to the air discharge opening and arranged above said drums and at one end thereof, whereby to cause a movement of the air longitudinally thereof, one of said drums being arranged adjacent to one end of the tank, and the other drums being in spaced relation adjacent to the opposite end of the tank, means for rotating the first mentioned drum, means for rotating one of the last mentioned drums from the first mentioned drum, said last mentioned drums being provided each with a gear wheel, and an idler wheel meshing with said gear wheels for causing the rotation of the last mentioned drums in opposite directions.

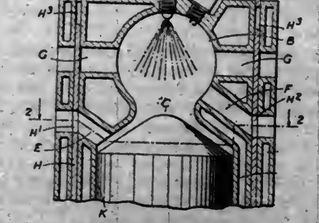
1,750,570. INTERNAL-COMBUSTION ENGINE. ALAN ERNEST LEOFRIC CHORLTON, London, England, assignor of one-half to William Beardmore, London, England. Filed May 22, 1924, Serial No. 715,281, and in Great Britain May 29, 1923. 4 Claims. (Cl. 123—32.)

1. The method of operating an internal combustion engine having a cylinder provided with combustion and piston chambers connected by a short restricted passage which consists in admitting air and hydrogen at separate points into the combustion chamber on the suction stroke of the piston, compressing this charge of air and hydrogen into the combustion chamber, igniting the hydrogen in the



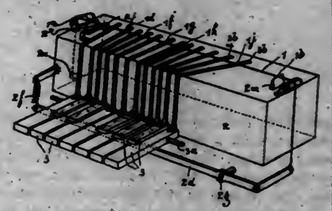
combustion chamber near the end of the compression stroke and injecting a charge of liquid fuel into the hot gaseous media in the combustion chamber, the charge of air being sufficient for burning both the hydrogen and the charge of liquid fuel.

1,750,571. INTERNAL-COMBUSTION ENGINE. ALAN ERNEST LEOFRIC CHORLTON, London, England, assignor of one-half to William Beardmore, London, England. Original application filed May 22, 1924, Serial No. 715,231, and in Great Britain May 29, 1923. Divided and this application filed Nov. 13, 1925, Serial No. 68,859. Renewed June 19, 1928. 14 Claims. (Cl. 123—32.)



1. In an internal combustion engine, in combination a cylinder, a combustion chamber, a restricted passage connecting the cylinder with the combustion chamber, means for injecting a charge of fuel in a liquid state directly into the combustion chamber, ports through which gases can enter and leave the cylinder and combustion chamber, at least one of said inflow ports leading directly into the combustion chamber while the others of said entry ports lead into the cylinder, and a sleeve valve controlling all of the inflow and outflow ports.

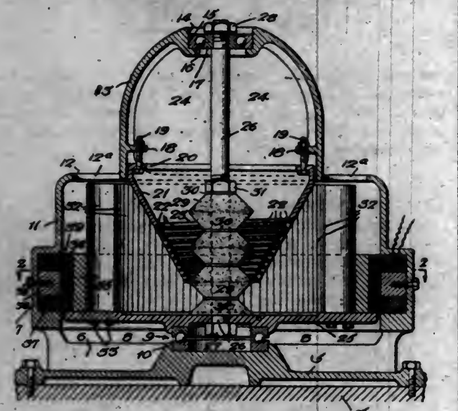
1,750,572. MUSICAL INSTRUMENT. GEORGES CLOSTENS, Brussels, Belgium. Filed Sept. 26, 1927, Serial No. 222,131, and in Belgium Apr. 30, 1927. 16 Claims. (Cl. 84—173.)



16. The method of operating a musical instrument having a single string, actuated by percussive elements from

an ordinary key-board, comprising, striking the string percussively, maintaining the percussive element in contact with the string long enough after the moment of percussion to inhibit the vibration of the string as a whole, so as to cause the complementary parts of the string determined by the point of percussive contact to emit, simultaneously, two notes and withdrawing the percussive element from the string while the said complementary parts thereof are independently vibrating, thereby permitting the string as a whole to vibrate simultaneously with the vibrations of its said parts.

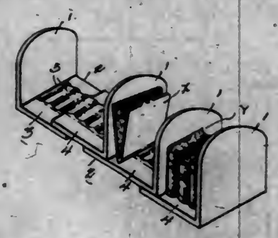
1,750,573. ABRADING AND CRUSHING MACHINE. PAUL L. CROWE, Baltimore, Md. Filed July 27, 1928. Serial No. 295,754. 7 Claims. (Cl. 83—13.)



1. In a machine of the character described, the combination of a hopper which is open at its upper and lower ends, a shaft extending upward through the lower and upper openings of the hopper and provided with an abrading element which is disposed in the lower end of the hopper and has various diameters, means to effect a relative rotary movement between said shaft and hopper, means to effect an air current thru said hopper, and means to effect a relative vertical adjustment between said shaft and hopper, for the purposes specified.

1,750,574. [WITHDRAWN.]

1,750,575. SECTIONAL DESK ACCESSORY. WARNER I. CUBBERLY, Washington, D. C. Filed Aug. 2, 1929. Serial No. 382,856. 4 Claims. (Cl. 211—11.)



1. Interlocking devices serving as supports for files and the like having each a substantially vertical portion, and a horizontal portion, the horizontal portions overlapping part way their length, and provided with series of protuberances, and certain of the protuberances of one device being pocketed in certain of the protuberances of the next adjacent device to be locked against longitudinal or side slipping, and to self-align said devices.

1,750,576. DESK DISTRIBUTOR SET. WARNER I. CUBBERLY, Washington, D. C. Filed Sept. 5, 1929. Serial No. 390,584. 6 Claims. (Cl. 211—11.)



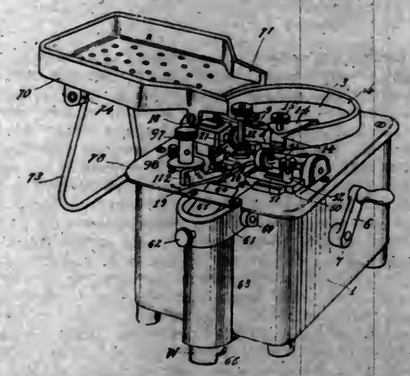
1. An office accessory of the type described comprising a plurality of members, certain of which have substantially vertical portions and horizontally arranged tongues formed with corrugations, and others having substantially vertical portions and horizontal corrugated portions formed each with a slot to receive the tongue of the first mentioned devices; said devices being relatively interengaging to form a compartmented assembly when set up.

1,750,577. KNIFE ATTACHMENT. JOSEPH DE BRACHT, Altoona, Pa., assignor of one-half to Corie H. Smith, Bedford, Pa. Filed Mar. 6, 1928. Serial No. 259,466. 2 Claims. (Cl. 30—9.)



1. A finger grip for the back edge of cutting blades comprising a spring clip for mounting over the back edge of the blade having anchoring abutments thereon and a finger grip member having spaced sides embracing said clip and engaging and anchored thereto by said abutments, said member having its upper portion longitudinally concaved and transversely extended to a width substantially greater than the back of the blade edge to form a relatively broad finger gripping surface extending longitudinally of the blade edge and having an upstanding ridge forming a gripping abutment for a finger traversing and overlying said upper concave portion.

1,750,578. COIN-COUNTING MACHINE. CLEMENT LEE DOWNEY, Cincinnati, Ohio. Filed July 27, 1923. Serial No. 654,286. 4 Claims. (Cl. 133—8.)

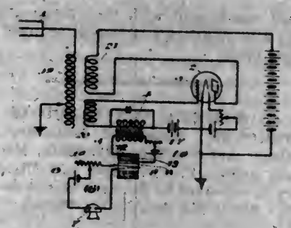


1. A coin counting machine, comprising a coin counting device, adapted to be operated by the coins, and means for feeding the coins past said counting device, comprising rollers to engage the top and bottom of the coin, and means for driving both rollers, and means for mounting one of said rollers, at least, so as to move to and from the coins being fed to adapt itself to the thickness of the coin, said means comprising a shaft for the roller, a long journal piece for said shaft, and means for pivotally mounting said journal piece so as to permit an oscillation thereof, the driving means for said roller comprising a gear on the

roller shaft, and a resiliently mounted and driven gear meshing with the gear first named, whereby resilient action is imparted to said journal piece and feed roller.

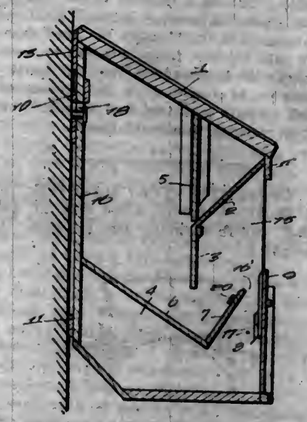
3. In a coin counting machine, the combination of a rotary device energized by the coins being counted, a limit means adapted to control the number of rotary movements of said device, comprising a member intermeshing with said rotary device, a stop device adapted to block the passage of coins to the rotary device, and means adapted to automatically control the stop and the limit means comprising a pawl movable from an adjustable stop to a fixed stop, said fixed stop formed as an arm having a small pivotal movement, a rock shaft connected to the stop device to actuate it, and said arm being adapted to clear said rock shaft in one position, and to engage the rock shaft in another position, said pawl adapted when coming into contact with said arm to move it to the said one position, and manually controlled means for tripping said pawl, said means being formed so as to force over the rock shaft to coin stop release position, and to force the said stop arm to its other position.

1,750,579. MODULATOR FOR RADIOTELEPHONES. HENRY H. C. DUNWOODY, Interlaken, N. Y. Filed Apr. 20, 1926. Serial No. 103,397. 2 Claims. (Cl. 179—171.)



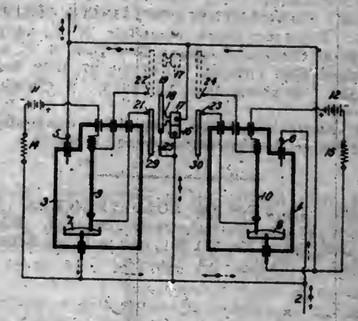
1. In a system of radio communication, an oscillator including a grid circuit, said oscillator having an associated antenna, and a modulator for varying the amplitude of the oscillator current impressed upon the antenna, comprising a transformer having one side connected in the grid circuit of said oscillator, a microphone circuit including a filament, and means connected with the other side of the transformer being variable in electrical conductivity by variations in the light emitted by the filament.

1,750,580. CHICKEN-FEEDING HOPPER. GREGORY N. EBEL, St. Paul, Minn. Filed May 3, 1929. Serial No. 360,254. 4 Claims. (Cl. 119—52.)



1. In a poultry feeding device, a box provided with a vertical side wall, a hopper within the box, the base of the hopper depending within the box at an acute angle to the side wall and terminating in an upwardly extending portion at substantially right angles to the depending portion, and a septum within the box forming a side wall of the hopper and extending vertically above the depending portion and spaced apart from the depending portion to form a feeding neck, the hopper provided with an incline extending from the said upwardly extending portion and a sliding septum in alinement with the said vertical septum.

1,750,581. VACUUM SWITCH FOR ALTERNATING CURRENTS. HARTMANN EGG, Zurich, Switzerland, assignor to the Firm Maschinenfabrik Oerlikon, Oerlikon, near Zurich, Switzerland, a Corporation of Switzerland. Filed Feb. 25, 1928, Serial No. 257,030, and in Switzerland Feb. 25, 1927. 3 Claims. (Cl. 175—294.)



1. In a vacuum switch for alternating currents, vacuum valves permeable to opposite semi-cycles of said current connected in parallel, starting-up and excitation circuits of said valves, switches in said starting-up and excitation circuits, and mechanical switching means arranged in parallel with said valves, said switches closing said starting-up and excitation circuits prior to opening of said mechanical switching means and opening said excitation circuits after opening beyond arcing range of said mechanical switching means.

1,750,582. MEANS FOR HANDLING, HOLDING, STORING, AND DISPLAYING ROLLS OF LINOLEUM, FABRIC, AND OTHER MATERIAL IN THE FORM OF ROLLS. HENRY ELLIOTT, Glasgow, Scotland. Filed Sept. 5, 1925, Serial No. 54,720, and in Great Britain Sept. 19, 1924. 9 Claims. (Cl. 242—55.3.)



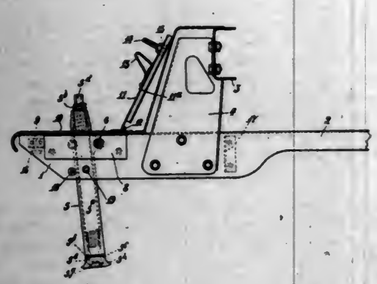
5. An apparatus for handling, storing and displaying rolls of linoleum, fabric and other rolled goods compris-

ing the combination of a series of vertically arranged brackets with shafts to be inserted in the cores of the rolls and means whereby the shafts with rolls thereon can be raised, deposited, and rotatably supported on said brackets, means for securing the rolls to their shafts, half clutch members on the ends of said shafts, a series of spindles, complementary half clutch members carried by said spindles and capable of an axial movement thereon, gear wheels on said spindles, spring means tending to force the co-operating half clutch members into engagement, independent spring means tending to force the spindle axially with respect to their gear wheels, means whereby the clutch members of any selected roll can be brought into engagement, and means whereby any selected roll can be driven through its clutch.

1,750,583. COMPOSITION CONTAINING CHLOR RUBBER. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y., a Corporation of West Virginia. Filed Oct. 27, 1922, Serial No. 597,416. Renewed Dec. 11, 1929. 3 Claims. (Cl. 106—23.)

1. A chlorinated rubber composition comprising chlorinated rubber, di-ethyl phthalate and camphor.

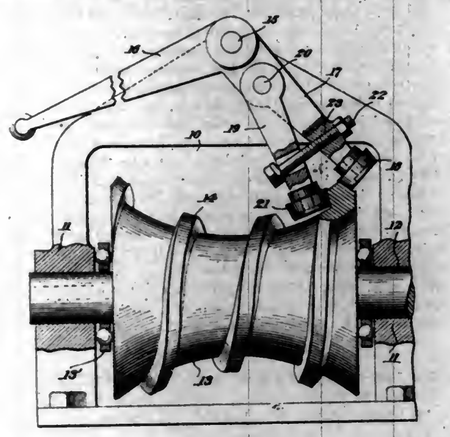
1,750,584. JACKING OF ROAD VEHICLES. WALTER ERNEST EVANS, Wolverhampton, England. Filed Oct. 10, 1928, Serial No. 311,691, and in Great Britain Dec. 9, 1927. 4 Claims. (Cl. 254—86.)



1. In a road vehicle, a chassis frame including a side member, a running board adjacent said side member, an opening in said running board, means on said side member projecting outwardly beyond said frame, and jacking means on said projecting means adapted to be swung into an operative position in which it is accessible at said opening and into an inoperative position in which it is stowed in a substantially horizontal position.

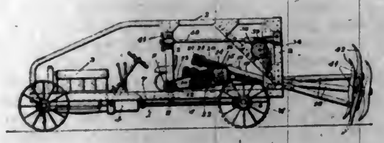
1,750,585. STEERING DEVICE. OTIS N. FARLEY, Lynden, Wash. Filed Dec. 21, 1927. Serial No. 241,645. 1 Claim. (Cl. 74—79.)

A steering device comprising a concaved worm gear, the tooth for the gear being spaced for greater distances than the usual and pitched toward a common center, a steering arm pivotally mounted at the common center having one end disposed in juxtaposition to the tooth, a bearing member carried upon the particular end of the steering member and adapted for engagement with one side of the tooth, an arm being pivotally connected with the aforementioned end of the steering arm, having a bearing member upon the extremity thereof engageable with the tooth in diametrically opposed relation to the first mentioned bearing, and a bolt member carried by the pivoted arm and adapted



for threaded engagement with the aforementioned end of the steering arm to afford adjustment between the bearing members and tooth.

1,750,586. AUTOMATIC CONSTRUCTION PICK AND DIRT REMOVER. ARTHUR E. FIELD and ULYSSES G. FIELD, Gray, and NICOLAUS HARITHAS, Mechanic Falls, Me.; said Arthur E. Field and said Ulysses G. Field assignors of one-sixth to Nicolaus Harithas. Filed Mar. 13, 1928. Serial No. 261,346. 4 Claims. (Cl. 37—1.)



1. In apparatus of the class described the combination with a tractionally mounted frame, a crank-shaft having thereon a plurality of cranks, a pick-arm journalled on each of said cranks, means whereby said crank may be yieldingly held against longitudinal movement in one direction in said pick arm, a fulcrum frame, means to locate said fulcrum frame in various vertical positions on and with relation to said tractionally mounted frame, a fulcrum roll in said fulcrum frame adapted to normally support said pick-arm intermediate its ends as it oscillates and reciprocates in response to the movement of said crank, a pick on said pick-arm, and means to rotate said crank-shaft at various rotational speeds.

1,750,587. OFFSET-PRINTING MACHINE. FERDINAND FISCHER, Berlin, Germany. Filed Mar. 21, 1928, Serial No. 263,841, and in Germany Apr. 16, 1927. 11 Claims. (Cl. 101—217.)



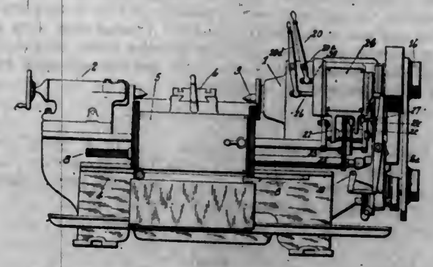
1. An offset printing machine in which the printing is effected by an offset roll and an impression roll and between which rolls the paper is to be fed, comprising, in combination with said rolls, means for collecting said sheets after passing between said rolls, and means on said offset roll for guiding said sheets into said collecting means.

1,750,588. FASTENER FOR WOMEN'S APPAREL. HELEN M. GILMORE, New York, N. Y. Filed Apr. 13, 1928. Serial No. 269,632. 1 Claim. (Cl. 24—73.)



In combination with a garment having a shoulder portion, of a ribbon-holding device including disks adapted to be attached to the shoulder portion in spaced relation to each other, flexible prongs projecting from the periphery of each disk to be pushed through the fabric of the shoulder portion and bent back on the body part of the disk to fasten detachably the disk to the fabric, one of said disks comprising a member of a snap-fastener, a chain secured at one end to the other disk, and a third disk secured to the free end of the chain and comprising the complementary member of the snap-fastener, said chain and the adjacent fabric of the shoulder portion forming a loop between the disks attached to the shoulder portion when the two disks forming the snap-fastener are mutually engaged, said loop so formed operating to hold in place, a ribbon passing therethrough.

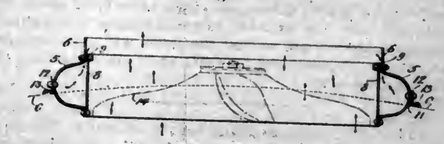
1,750,589. AUTOMATIC LATHE CONTROL. WILLIAM F. GROENE, Cincinnati, Ohio, assignor to The R. R. Le Blond Machine Tool Company, Cincinnati, Ohio, a Corporation of Delaware. Filed Nov. 30, 1927. Serial No. 236,831. 12 Claims. (Cl. 82—2.)



1. In a machine tool, a control mechanism comprising a shaft for controlling rapid drive, a shaft for controlling work drive, clutches operable by reciprocation of said shafts for rapid and work drives respectively, and means operated by the machine tool for alternately reciprocating said shafts, said means comprising cylindrical cams about said shafts, rotatable but not slidable thereon, members having substantially fixed position against movement with said shafts, and arranged, when actuated, to engage said cams, means for rotating the cams, and a timing mechanism adapted to actuate said members.

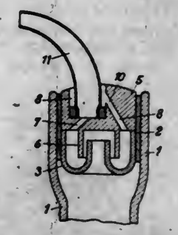
8. In a control device for machine tools, a member to be moved, a rock shaft, a double cam on the member to be moved, double cam engaging means on the rock shaft, means to rock the said shaft so that one of the cam engaging means engages one of the cams selectively depending upon the direction in which the shaft is rocked, means to rotate said cams so as to force the member to be moved into a desired path of motion when the engaging means are effective, said cams arranged to force the cam engaging means out of engagement at the end of an operation, thus rocking the shaft, and a locating device for said shaft arranged to hold said rock shaft resiliently against movement in four positions, i. e. when in the position of being rocked into engagement with either of the cams, and when rocked out of engagement by either of the cams, said means comprising a notched sector and an engaging member therefor having terminal notches in which the engaging member rests to secure the shaft in cam engagement position, and having intermediate partial width notches, in which the engaging member secures the forced out positions, said rock shaft being slidable sufficiently to move the partial width notches alternately into position for engagement with said member.

1,750,590. MUFFLER. CHARLES O. GUERNSEY, Philadelphia, Pa. Filed Dec. 31, 1926. Serial No. 158,260. 2 Claims. (Cl. 137—160.)



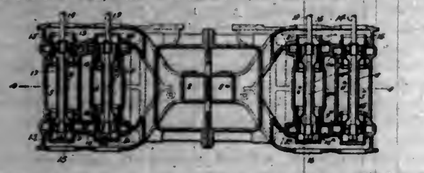
1. Means for discharging the exhaust gases from an internal combustion engine including a U-shaped ring provided with an inlet on its exterior and having upper and lower vertically disposed flanges, the diameter of the lower flange being less than the diameter of the upper flange, a cylindrical band mounted inside of the said ring and secured to said flanges to produce an unobstructed annular chamber, the exterior of the band being spaced from the upper flange so as to provide a substantially unobstructed circumferential outlet for the chamber, and a rotary fan disposed centrally within the said ring and adapted to create an up-draft therethrough, said inlet being substantially tangential to said cylindrical band.

1,750,591. CLOSURE FOR NONREFILLABLE BOTTLES. ALFRED HAFERMANN, Berlin-Lichtenrade, Germany. Filed Aug. 15, 1927, Serial No. 213,128, and in Germany Sept. 6, 1926. 2 Claims. (Cl. 215—15.)



1. A closure for non-refillable bottles comprising in combination an annular dished member inserted in the neck of the bottle, said member having an upwardly extending inner rim, an outer closing member inserted in the neck of the bottle above said annular dished member, an inverted dished member below the said closing member and extending downwardly into the said annular dished member over the inner rim thereof without touching the walls of the dished member, passages in said outer closing member, extending upwardly therein from the part of the bottom thereof outside the said inverted dished member, for allowing the escape of liquid from the bottle and the admission of air thereto when pouring out the contents of the bottle, the inverted dished member below said closing member being adapted to coact with said upwardly extending inner rim so as to trap a quantity of liquid in the annular dished member, sufficient to prevent liquid being poured into the bottle, through said passages, as set forth.

1,750,592. TWIN VALVE FOR LOCOMOTIVES. LAWRENCE W. HANCE, Philadelphia, Pa. Filed Nov. 28, 1928. Serial No. 322,542. 3 Claims. (Cl. 121—193.)



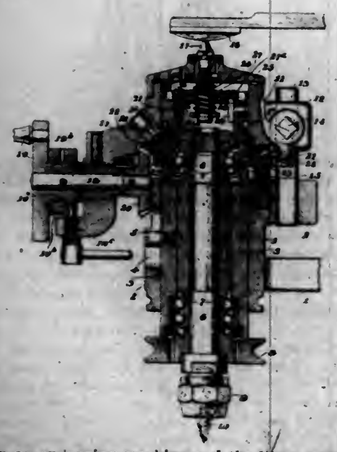
3. The combination in a locomotive, of a cylinder; a piston therein; two valve chambers arranged side-by-side and communicating with the cylinder, one of said valve chambers being a steam inlet chamber and the other being an exhaust chamber; two reciprocating valves in each valve chamber; and an exhaust passage extending past the ends of each of said valves, the steam valve being closed at each end, and the exhaust valve having a longitudinal passage therethrough, so that the steam will pass through the exhaust chamber and its valve and from either end of the steam chamber.

1,750,593. HYDROPNEUMATIC GLIDER. REIDAR HAUGAN, White Sulphur Springs, W. Va. Filed Mar. 26, 1929. Serial No. 350,042. 1 Claim. (Cl. 114—67.)



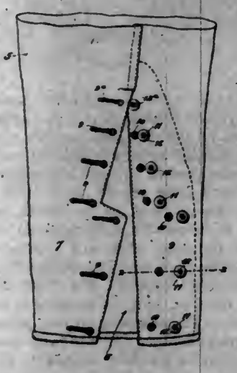
A glider of the character described comprising opposed side walls having a portion of their lower ends turned inwardly, said portions being remote from the forward end of each side wall and terminating in vertical upturned ends, a bottom wall connecting the upturned end and the forward lower edges of the side walls, an upwardly and downwardly curved air conducting tube extending from the front of the glider and terminating under the rear thereof, and an upper wall connecting the forward portions of the upper end of the side plates and having a downturned rear end portion connected to the tube for supporting same.

1,750,594. ENGRAVING MACHINE. PETER M. HENKES, Racine, Wis., assignor to George Gorton Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Jan. 25, 1928. Serial No. 249,410. 11 Claims. (Cl. 90—13.)



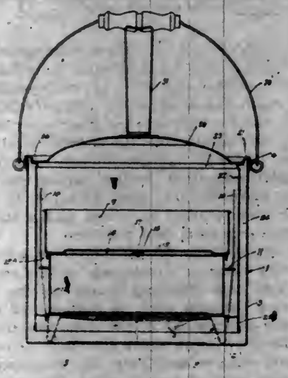
1. In an engraving machine and the like; a cutter head, a non-rotary barrel slidably confined thereto; a rotary cutter spindle carried by said barrel and adapted to carry and drive a cutter; feed mechanism for feeding the barrel to carry the cutter toward and from the work; and a cutter depth stop mechanism embodying manually actuated adjusting means and annular stop members arranged in said barrel concentric with the axis of the cutter spindle and cooperating with the barrel and supported independently of said spindle.

1,750,595. ADJUSTABLE RIDING-BREECHES LEG. JOHN K. HICKS, El Paso, Tex. Filed Apr. 1, 1929. Serial No. 351,735. 3 Claims. (Cl. 2—228.)



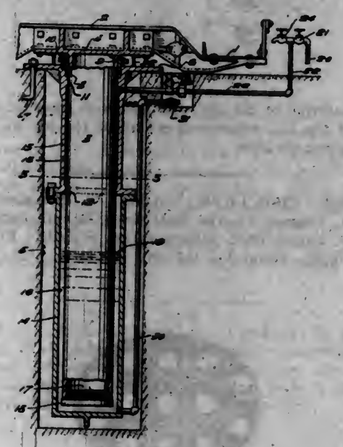
1. An adjustable riding breeches leg having a slit extending upwardly from its lower end, the leg portion at one side of said slit being provided with a row of button holes, the leg portion at the other side of said slit being provided with a plurality of rows of small openings, said small openings being horizontally spaced apart distances which gradually decrease from the lower towards the upper end of the slit, one set of buttons having eyes insertable through said small openings of any of said rows, and one set of fasteners insertable through said eyes at the interior of the leg, said button-holes being co-operable with said buttons when the latter are engaged with any of said rows of small openings.

1,750,596. STEAMER COOKER. LOUIS J. HOIS, Milwaukee, Wis., assignor to Geuder, Paeschke & Frey Company, Milwaukee, Wis. Filed May 23, 1927. Serial No. 193,471. 2 Claims. (Cl. 53—2.)



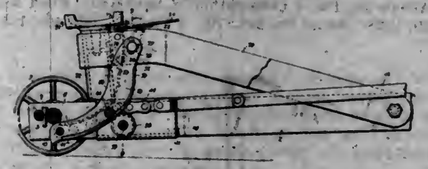
1. A steamer cooker comprising an outer container adapted to hold a quantity of water, a cover for the container and an inner cylinder supported by the cover and forming a steam tight bell-jar therewith, said inner cylinder projecting down into the outer container to a point adjacent the bottom of the container when the cover is placed thereon and said cylinder having restricted openings therein slightly spaced from the lower end thereof for permitting the escape of steam from the bell-jar to the space between the inner cylinder and the outer container when the pressure in the bell-jar is sufficient to lower the water level in the container to a point opposite said openings.

1,750,597. AIR-ACTUATED LIFTING DEVICE. EDWARD E. HOLLISTER, Quincy, Ill., assignor to Hollister-Whitney Company, Quincy, Ill., a Corporation of Illinois. Filed Aug. 24, 1926. Serial No. 131,262. 2 Claims. (Cl. 254—93.)



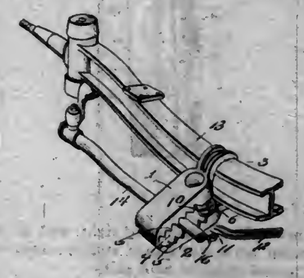
1. A lifting device comprising a cylinder, a plunger reciprocable therein, means for supplying compressed air to the upper portion of the cylinder to actuate the plunger, and a body of liquid contained in the cylinder and displaceable by the plunger into a clearance space surrounding the plunger to expel air from the cylinder.

1,750,598. AUTOMOBILE JACK. ERNEST W. HOLMES, Chattanooga, Tenn., assignor to Ernest Holmes Company, Chattanooga, Tenn. Filed Nov. 2, 1925. Serial No. 66,284. 47 Claims. (Cl. 254—2.)



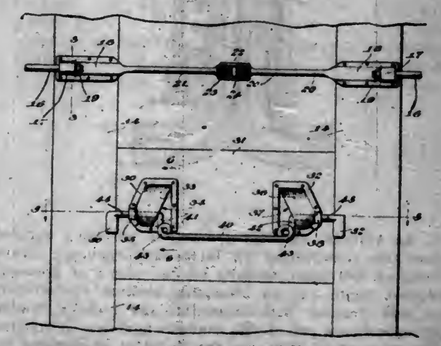
1. A lifting jack including a frame, a lever, pivotally supported and constructed to carry a load at its free end, elevatable means pivotally connected to said lever adjacent to the free end thereof, means extending longitudinally from the free end of said lever to the opposite end thereof for operating said elevatable means, said elevatable means being curved so as to maintain substantially constant the lifting component of the force applied to said operating means, and means carried by said frame against which said elevatable means cams for changing the direction of movement of said elevatable means.

1,750,599. STEERING-GEAR CLAMP FOR TOWED AUTOMOBILES. ERNEST W. HOLMES and EARL E. CLINE, Chattanooga, Tenn., assignors to Ernest Holmes Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed Oct. 16, 1926. Serial No. 142,096. 3 Claims. (Cl. 280—89.)



1. A clamp for holding the steering rod of an automobile immovable with respect to the front axle thereof, comprising upper and lower members adjustably connected intermediately of their ends and having jaws at their ends to engage the steering rod and axle respectively, one jaw of one of said members being relatively broad and the other jaw thereof relatively narrow, said narrow jaw being longitudinally concave and transversely convex on the side thereof confronting the other of said members.

1,750,600. DOOR FOR SILOS. LEVI D. HOUGHTALING, Reading, Pa. Filed Jan. 14, 1929. Serial No. 332,533. 1 Claim. (Cl. 20—1.4.)



A device of the character described comprising a door, spaced brackets secured to the door and provided with cams, a bail having a body portion spaced from the door, legs formed of resilient material and extending inwardly from the body portion and engaged by the cams for moving the inner ends of the legs towards each other when the bail is rocked, an arm projecting laterally from each leg and guided for reciprocation by a bracket, a foot projecting laterally from each arm and provided with a friction pad adapted to engage a fixed support beyond the ends of the door for holding the door to the fixed support, the feet being adapted to be moved out of engagement with the support when the bail is rocked.

1,750,601. INSTRUMENT PANEL. DON E. KEENEY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Sept. 26, 1927. Serial No. 222,116. 4 Claims. (Cl. 248—30.)

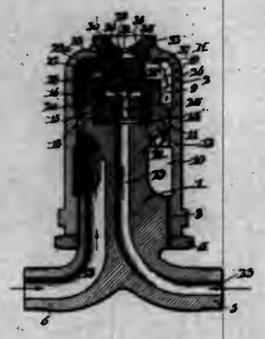
1. In an instrument mounting, a supporting strip provided with an aperture serving as an observation opening,

a locating cover secured by means extending through said aperture and provided with a cylindrical flange which has



a slot for permitting entrance of light, and an instrument case connected with said flange and provided with light-admitting means opposite said slot.

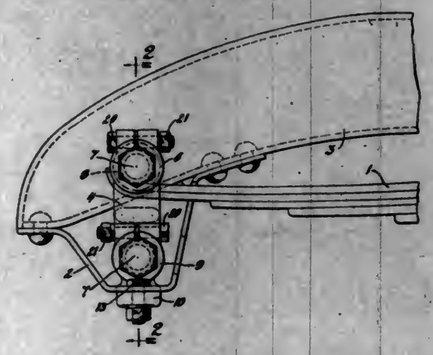
1,750,602. DEVICE FOR VAPORIZING LIQUIDS. JAMES D. LALOR, Baltimore, Md., assignor, by mesne assignments, to The Fluid Heat Company. Filed Feb. 18, 1925. Serial No. 10,048. 7 Claims. (Cl. 299—140.)



1. An atomizer embodying members providing opposed concavities constituting an interacting chamber, means serving as individual conduits for the supply of pressure-delivered liquid and an atomizing medium concurrently into said chamber with tangential and radially inward flow respectively, one of said conduits having a constricted orifice adapted to discharge the liquid at accelerated velocity, and the other of said conduits being adjustable to control the radially-inward flow of the atomizing medium into said chamber whereby the liquid is thoroughly vaporized and discharges as a tangentially-expanding combustible mist from the atomizer.

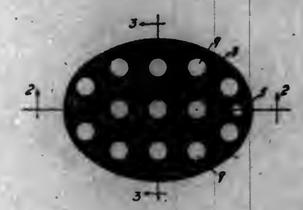
1,750,603. SPRING SHACKLE. EDWIN GEORGE LANE, Pontiac, Mich., assignor to Yellow Truck and Coach Manufacturing Company, Pontiac, Mich., a Corporation of Maine. Filed Nov. 7, 1927. Serial No. 231,568. 7 Claims. (Cl. 267—54.)

1. In a pivot joint, the combination with a pair of split ears and a member interposed therebetween, of a nut carried in one of the ears and having an axial groove in its periphery, an adjustable element connecting the split ends of said ear to contract the ear about the nut and hold it against movement, a key carried by said element and projecting into said axial groove to hold the nut against rotation but permit its axial sliding movement in the ear when the split ends are expanded, a pivot pin extending thru the other of said ears and the member into threaded engagement with the nut whereby to move the nut axially



upon rotation of the pin, and means to contract the split ends of the last mentioned ear about the pin to hold the pin against rotation.

1,750,604. FISH LURE. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 23, 1926. Serial No. 117,990. 1 Claim. (Cl. 43—45.)



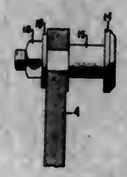
A fish lure having a surface of bright reflecting metal overlaid with a comparatively dull coating except in a plurality of isolated spots, at which points the bright reflecting metal is exposed to afford a plurality of separated and isolated shafts of reflected light.

1,750,605. EMBLEM HOLDER. CHARLES S. PRICE, Bethlehem, Pa., assignor to L. F. Grammes & Sons, Inc., Allentown, Pa., a Corporation of Maryland. Filed Aug. 29, 1928. Serial No. 302,770. 4 Claims. (Cl. 40—125.)



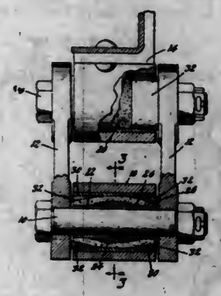
1. A holder for sustaining objects such as plate emblems comprising opposing clamp members, one to directly engage one edge of the emblem, a supplemental member adapted to interlock with the other clamp member and to engage the opposite edge of the emblem, and means operable to draw the two clamp members together in effecting concurrent gripping of the emblem and securing of the holder to a support.

1,750,606. DRIVING-ROD CONNECTION FOR LOOM LET-OFF MECHANISM. THOMAS E. REID, Concord, N. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 23, 1928. Serial No. 314,445. 3 Claims. (Cl. 139—100.)



1. In a let-off mechanism for looms, a rocker arm having a polygonal aperture in its free end, a pallet lever, a driving rod pivoted at one end to the pallet lever and having a longitudinally slotted casting at the other end, a steel stud having a head, a cylindrical shank and a polygonal end fitting the aperture in the arm, and means for detachably securing the stud in the end of the rocker arm with the casting guided between the arm and the head of the stud and with the slot riding in the shank of the stud.

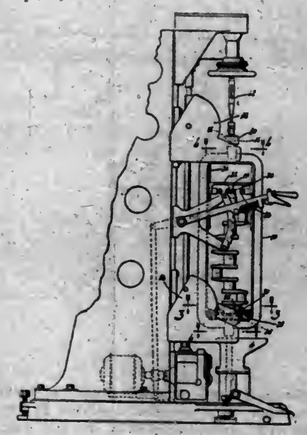
1,750,607. SPRING SHACKLE. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 9, 1926. Serial No. 100,891. 6 Claims. (Cl. 267—54.)



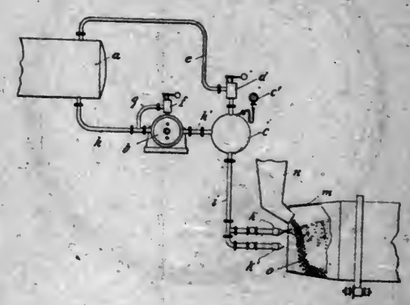
1. A joint comprising a plurality of relatively movable concentric members, a rubber bushing having a wall of uniform dimension throughout interposed between said members, and cooperating wedge devices on respective members adapted to force said bushing into gripping engagement with the members.

1,750,608. BALANCING-MACHINE FIXTURE. CALEB E. SUMMERS, Pontiac, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 2, 1927. Serial No. 188,384. 6 Claims. (Cl. 73—51.)

1. A balancing machine fixture consisting of a balanced holder adapted to receive an article to be balanced, said holder being adapted for mounting in a balancing machine, and having parts adapted for engagement with parts of the machine to indicate the state of balance of the assembled article and fixture, said holder being provided with spaced members receiving the article between them, one of the members being adjustable to permit the reception of articles of different sizes.

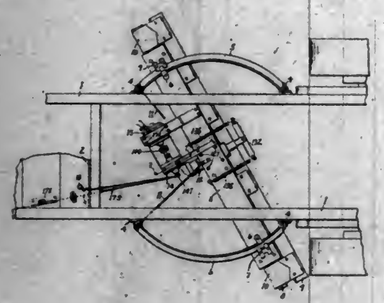


1,750,609. APPARATUS FOR BINDING PULVERULENT FUEL. JOHANNES TÜRKE, Beuthen, Germany, assignor to Emil Kleinschmidt, Frankfort-on-the-Main, Germany. Filed May 24, 1928, Serial No. 280,341, and in Germany Aug. 9, 1926. 1 Claim. (Cl. 44—02.)



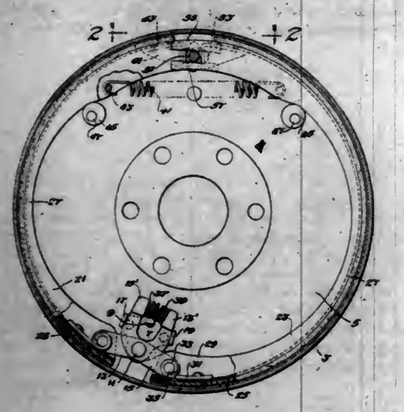
Apparatus for applying liquid binder to pulverulent fuel comprising a supply tank for the liquid binder, a pump, a conduit connecting the tank and pump, a by-pass between the pump and conduit, a relief valve controlling said by-pass, a pressure tank, a supply connection between the pump and pressure tank, a return pipe connecting the pressure tank and supply tank, a relief valve controlling said return pipe, a spray nozzle in connection with said pressure tank, and means for directing an exposed flow of the pulverulent fuel into the spray issuing from said nozzle.

1,750,610. ROAD SCRAPER. ERNEST A. WEEKS, Kalamazoo, Mich., assignor to Root Spring Scraper Company, Kalamazoo, Mich. Filed Dec. 7, 1928. Serial No. 324,442. 4 Claims. (Cl. 37—155.)



3. The combination of a motor truck, a hanger board therefor, a scraper on a rockshaft carried by the hanger board, an electric motor supported on the said hanger board, and power connections from the motor for operating the said scraper, as specified.

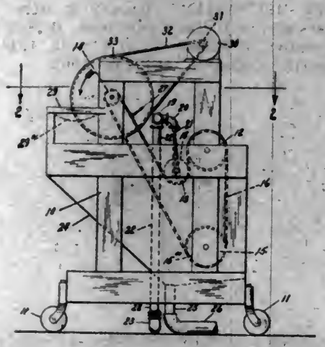
1,750,611. INTERNAL BRAKE. LLOYD BLACKMORE, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 30, 1927. Serial No. 236,766. 10 Claims. (Cl. 188—78.)



1. In a brake, a drum, brake means to frictionally engage the drum, actuating means therefor, a rock shaft carrying said actuating means, means on the adjacent ends of said brake means to support said rock shaft.

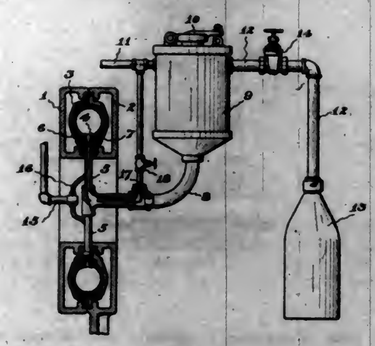
1,750,612. VEGETABLE WASHER. CHARLES L. DALLINGA, Akron, Ohio. Filed Jan. 16, 1929. Serial No. 332,814. 8 Claims. (Cl. 146—194.)

1. A vegetable washer comprising a belt from which water may drain to effectively carry dirt therefrom, means over which the belt is trained to form a pocket therein to receive and support the vegetables, means for directing a spray into the pocket, means to drive the belt whereby the vegetables will be tumbled or rotated in the pocket while sprayed, conveying lug means so mounted on the



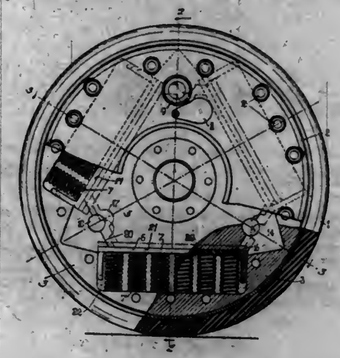
belt as to pass through said pocket at intervals to remove the washed vegetables from the pocket after repeated tumbling of the vegetables therein, a tray having a draining bottom to receive the washed vegetables from the belt, and a drain pan under the pocket and tray.

1,750,613. APPARATUS AND METHOD OF VULCANIZATION. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 26, 1927. Serial No. 194,280. 7 Claims. (Cl. 18—2.)



7. Means for expanding tire casings during vulcanization that consists in an air-tight container adapted to receive finely divided solid material, a mold for receiving a tire casing, a sealing ring interposed between the bead portions of the casing and having a plurality of distributed apertures therethrough, means connecting the container with each of the apertures, pressure supply apertures formed in said sealing ring intermediate said communicating apertures, means for supplying fluid pressure to the interior of said casing through said intermediate apertures for removing the finely divided material from the tire casing, and collecting means in communication with said container for collecting the finely divided material.

1,750,614. RESILIENT WHEEL. HENRY ASPDEN HOWSON, Osbaldeston, near Blackburn, England. Filed July 13, 1929, Serial No. 378,072, and in Great Britain June 18, 1928. 2 Claims. (Cl. 152—28.)



1. In a resilient wheel having a cylindrical outer casing and a floating center plate, the combination of sliding box elements guided in said outer casing for movement in a respective radial direction of said wheel, springs located between said box elements and said outer casing and operating to oppose outward radial movement of the respective box elements, said box elements and center plate having sliding surfaces to permit relative movement thereof in a direction at a respective right angle to the permitted radial movement of said box elements.

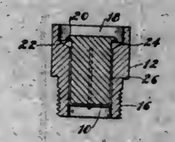
1,750,615. ELECTRIC-CIRCUIT-CONTROL APPARATUS. JOHN E. LONG, Multnomah, Oreg. Filed June 14, 1928. Serial No. 285,306. 9 Claims. (Cl. 200—46.)

1. In circuit control apparatus of the character described, including a container adapted to hold a body of electrically conductive liquid and devices for guiding a non-conducting tape element into such container, thru such body, and out of such container, the combination



therewith of a wiper for such tape arranged at a side of the path of such tape near the point where it leaves the container.

1,750,616. BURNER FOR NATURAL GAS. PHILIP W. McCOY, Toledo, Ohio, assignor to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Jan. 10, 1929. Serial No. 331,541. 6 Claims. (Cl. 158—99.)



5. A gas burner for premixed gas comprising a cylindrical plug, a tubular body within which said plug is supported in concentrically spaced relation to provide an annular feed passage for the gaseous mixture to be burned, a radial baffle on said plug against which the mixture impinges upon issuing from said feed passage, and a relatively shallow well within which said baffle is positioned in spaced relation with respect to the sides and bottom of the well, the bottom of the well sloping upwardly and outwardly from beneath said baffle, and the underside of said baffle being curved outwardly and downwardly so as to tend to direct the impinging mixture downwardly against the bottom of the well.

Patents Nos. 1,750,617 to 1,751,460

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Trade-Marks	490	No. 368,449 to No.	368,938,	inclusive.
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Labels	29	No. 37,249 to No.	37,276,	inclusive.
Prints	7	No. 12,450 to No.	12,456,	inclusive.
Reissues	5	No. 17,632 to No.	17,636,	inclusive.
Designs	51	No. 80,717 to No.	80,767,	inclusive.
Patents	344	No. 1,750,617 to No.	1,751,460,	inclusive.
Total	1,485			

Adjudicated Patents

(C. C. A. N. Y.) Moyer patent, No. 1,195,252, for rim tool, claims 1 and 2 *Held* invalid. *General Rim Co.* v. *Firestone Tire & Rubber Co.*, 36 F. (2d) 774.

(C. C. A. N. Y.) Ensign patent, No. 1,506,229, for carburetor, claims 1 and 8 *Held* not infringed. *Ensign Carburetor Co.* v. *Zenith-Detroit Corporation*, 36 F. (2d) 684.

(C. C. A. Minn.) Wheaton patent, No. 1,586,764, for method of manufacturing water-softening compounds, claims 6 and 19 *Held* valid and infringed, claim 7 *Held* invalid. *American Dowell Co.* v. *Twin City Water Softener Co.*, 36 F. (2d) 673.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,435,249, T. G. Martin, Automatic telephone system, decided January 3, 1930, claim 4.

Pat. 1,612,473, E. G. Shalkhauser, Variable condenser, decided December 20, 1929, claims 1, 2, 3, and 4.

Pat. 1,665,434, A. C. Bennett, Air cleaners for carburetors, decided January 24, 1930, claim 1.

Pat. 1,675,002, P. H. Steiner, Fuel burner, decided January 28, 1920, claims 1, 2, 3, 4, 9, 10, 11, 12, 17, 18, 19, and 20.

Pat. 1,723,852, J. T. Hohberger, Overhead railway, decided February 7, 1930, claim 1.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 235,228, Hosiery, aprons, dresses, etc., A. B. Eggers, Huntington Park, Calif. Registered November 15, 1927. Decided January 24, 1930.

T. M. 246,606, Shirts, M. H. Raab Co., Philadelphia, Pa. Registered September 11, 1928. Decided January 17, 1930.

Trade-Marks Canceled

142,043. Nonalcoholic, maltless beverage. Howard P. Miller, Cincinnati, Ohio. Registered May 3, 1921. Canceled February 21, 1930.

178,507. Radio receiving and transmitting sets and parts thereof. Baldwin Radio Electrical Manufacturing Co., Inc., Brooklyn, N. Y. Registered January 15, 1924. Canceled February 21, 1930.

238,785. Candy laxative. Purette Products Company, Logan, Utah. Registered February 14, 1928. Canceled February 21, 1930.

250,145. Piston rings. Osborne P. Sells, doing business as Double Seal Ring Company, New York, N. Y. Registered November 27, 1928. Canceled February 21, 1930.

260,294. Ladies' shoes. Johnson-Stephens & Shinkle Shoe Company, St. Louis, Mo. Registered August 20, 1929. Canceled February 21, 1930.

Suggestion for Use of Coupons

The execution of orders for printed copies of U. S. patents, trade-marks, etc., will be considerably expedited if coupons are used. Such coupons may be purchased at the Patent Office in lots of 20 at $2.00 and 100 at $10.00.

Coupon orders do not have to be accompanied by letters of transmittal. They require nothing but the filling in of the patent number, the name of the inventor, the date of issue, and the name and address of the party desiring the service.

Condition of Applications Under Examination at Close of Business March 7, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 116,672; Trade-Mark Division, 1,523. Oldest new case, May 6, 1929; oldest amended, May 1, 1929. The dates given are 1929 except where † indicates 1930.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	July 1	July 24	1,345
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	June 12	June 16	2,043
231	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	June 12	Sept. 14	1,572
264	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Aug. 2	July 27	1,272
105*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	June 3	June 1	1,555
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	May 6	May 1	3,224
106	7. JARBOE, C. G., Optics; Photography	May 22	May 22	2,853
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	June 24	Sept. 5	1,570
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Aug. 12	Aug. 10	1,613
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	June 15	July 12	1,796
149*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Sept. 17	Oct. 4	948
260	12. PIERCE, P. P., Machine Elements	Aug. 12	July 19	1,467
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	June 3	June 14	1,632
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	May 18	June 6	1,464
320	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	May 9	May 11	3,005
242*	16. SPENCER, C. J., Telegraphy; Telephony	June 22	Aug. 14	1,245
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 6	June 17	1,628
220	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	July 6	July 10	1,497
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	June 5	June 8	2,165
170	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	July 10	July 15	1,614
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 3	Sept. 21	874
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 12	Aug. 10	1,686
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	May 11	May 21	1,231
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 14	June 5	1,289
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	June 26	July 12	1,608
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	May 27	July 3	1,252
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 22	May 27	1,617
225	28. BENSON, A. R., Internal-Combustion Engines	July 9	July 10	2,064
160*	29. MORRIS, E. N., Woodworking; Tools; Compound Tools	Sept. 18	Sept. 12	791
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	June 13	Nov. 13	1,259
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	June 22	June 27	2,549
260	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	July 30	July 30	1,809
182	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 20	May 21	2,267
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 27	July 8	1,162
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Aug. 28	Sept. 12	1,930
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	June 22	July 10	2,316
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	May 31	June 3	2,219
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	May 13	May 31	2,110
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 13	May 13	2,063
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	May 22	Aug. 10	3,043
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	July 6	July 22	1,405
228*	42. CUTTING, H. O., Electric Signaling	July 26	Aug. 22	1,619
134*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	May 14	May 14	2,433
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	May 8	May 18	2,376
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	May 13	May 21	2,813
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 5	July 9	1,727
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	May 7	June 15	3,613
212*	48. ROEPKE, O. B., Electricity, General Applications	June 12	June 12	1,415
289	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Aug. 22	Aug. 31	1,211
222	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	May 20	June 5	2,949
240*	51. BACKUS, O. D., Radiant Energy, Wave Transmission	June 12	June 12	2,367
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	July 16	July 16	2,580
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 12	July 10	1,335
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	June 1	June 1	2,778
102	55. BOWEN, S. T... {Bread, Pastry, and Confection Making; Cutlery	†Feb. 7	†Feb. 22	420
	{Designs	Nov. 5	Nov. 5	476
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	June 4	June 7	2,307
267*	57. NICOLSON, C. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 25	July 2	1,261
270*	58. DOWELL, E. F., Abrading; Typewriting	May 11	May 11	1,466
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	May 27	May 27	2,927
313*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	May 29	May 28	2,340
280	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	May 17	May 23	2,569
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Packages and Article Carriers.	June 13	June 20	2,779
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND.. {Trade-Marks	†Feb. 7	†Feb. 24	1,412
	{Labels and Prints	†Feb. 14	†Feb. 21	111

* Refers to room numbers in the annex.

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DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

MINERALS SEPARATION NORTH AMERICAN CORPORATION *v.* MAGMA COPPER COMPANY

No. 71. Decided February 24, 1930

1. PATENTABILITY—ANTICIPATION—PRIOR PATENT—WHAT IS TO BE CONSIDERED.

In considering whether a patent is anticipated by a prior patent the question is not what is the precise scope of the claims of the prior patent, but what is disclosed in the specification and made known to the world.

2. SAME—EXTENSIVE USE.

"The petitioner adverts to the success that has attended the later patent and to the fact that the world waited until it appeared. But interlopers naturally would be slow to venture into the field occupied by a powerful company armed with Patent No. 835,120 and supported by a subtle ingenuity that we can not doubt would have been exercised with even more effect to show that a process like that in No. 962,678 was an infringement than it now is to prove that the later patent was a revelation that transformed the art."

3. SAME.

Sulman et al. Patent No. 962,678 for ore concentration, claims 1 and 2 *Held* invalid.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the First Circuit.

Mr. Henry D. Williams, Mr. William Honston Kenyon, Mr. Lindley M. Garrison, Mr. Frederic D. McKenney, and *Mr. Sidney St. F. Thaxter* for Minerals Separation North American Corporation.

Mr. William H. Davis and *Mr. Morton W. Sage* for Magma Copper Company.

Mr. Justice HOLMES delivered the opinion of the Court.

This is a suit for the infringement of Letters Patent, No. 962,678, claims 1 and 2, brought by the petitioner in the District Court of Maine, where the petitioner prevailed (23 F. (2d) 931,) the Court acting partly in deference to the decision of the Circuit Court of Appeals for the Third Circuit in *Miami Copper Co.* v. *Minerals Separation, Ltd.*, 244 F. 752. The decision of the District Court was reversed by the Circuit Court of Appeals for the First Circuit, 30 F. (2d) 67, and because of the conflict with the third circuit, a writ of certiorari was granted by this Court.

The claims are (1) for a "process of concentrating ores which consists in mixing the powdered ore with water containing in solution a small quantity of a mineral frothing agent, agitating the mixture to form a froth and separating the froth," and (2) the same as (1) except that it inserts the word "organic" before "mineral frothing agent." The only defence that it is necessary to consider is that the disclosure is anticipated by the earlier patent, No. 835,120, which has been before this Court in *Minerals Separation, Ltd.*, v. *Hyde*, 242 U. S. 261, 234 O. G. 1311, and *Minerals Separation, Ltd.*, v. *Butte & Superior Mining Co.*, 250 U. S. 336, 264 O. G. 701. It is enough to refer to those cases without repeating them. The process described in 835,120—

consists in mixing the powdered ore with water, adding a small proportion of an oily liquid having a preferential affinity for metalliferous matter, (amounting to a fraction of one per cent on the ore), agitating the mixture until the oil coated mineral matter forms into a froth, and separating the froth from the remainder by flotation.

The specification describes the object as being to separate metalliferous matter, etc., from gangue by means of oils, fatty acids, "or other substances which have a preferential affinity for metalliferous matter over gangue." It refers to a previous patent to Cattermole by which a considerable amount of oil is used to form granules, and announces the discovery that if the proportion of oily substance is reduced to, say, a fraction of 1 per cent on the ores, granulation ceases to take place, and on vigorous agitation the ore instead of sinking forms a froth on the surface that can be removed. The process is helped by the addition of a little acid, by warming and the fine pulverization of the pulp.

The petitioners, admitting that both patents are for processes, say that they are fundamentally different in their respective principles of action; that in the present patent, 962,678, the mineral frothing agent is dissolved in the water and produces the metal bearing bubbles, no one knows exactly how, by "modifying the water"; whereas in the earlier, 835,120, oil is used which does not dissolve in the water but coats the particles of metal with a thin coating of oil, which it could not do if it were soluble, and thus shows its preferential affinity when shaken up with the metal pulp.

The question is not what is the precise scope of the claims in 835,120, but what is disclosed in the specification and made known to the world. *Alexander Milburn Co.* v. *Davis-Bournonville Co.*, 270 U. S. 390; 344 O. G. 817. Therefore we are relieved of the inquiry whether the words "oily liquid" in claim (1) can be read as a shorthand expression for the previously mentioned oils "and other substances which have a preferential affinity for metalliferous matter over gangue," as "oil" was expressly interpreted in earlier patents, including one to Cattermole referred to at some length in 835,120, and as there is evidence that it thus was understood by men skilled in the art. It is disclosed that it was well known there were other substances besides oil that had the preferential affinity and that could be used. The nature of the affinity is not specified and it cannot be confined to the kind of action shown by oil. It is neither said nor implied that the added element must be insoluble or that it must coat the metal, although it is assumed in accordance with the prevailing theory that the metal will be coated when the oil mentioned in the claims is used. All that is required is that in some effective way the other substance should pick the metal out. It is said that oil does it by coating the metal particles and that of course a substance in solution could not do that. There is no

"of course" as to what nature can do, except as proved by observation and experiment. A substance in solution can combine chemically with another and become a solid. Whether a given thing will unite mechanically or whether by its presence it will promote an activity in which it does not share, it is to be found out by trial not by reasoning, and the petitioner agrees that in this case we do not know. It is a matter of reasoning rather than of observation that the oil coats the mineral particles. The experts differ whether the same thing does not take place when a soluble substance is used. But we agree with the defendant's argument that no one concerned in this business would care a straw as to the intimate nature of the action if it produced the result, and that No. 835,120 was not describing the work of insolubles alone. It was not attempting to anticipate a theory of the invisible, but to tell how the practical end could be achieved with any of the different things named.

The discovery was that a very minute portion of the oil worked in an unexpectedly different way from that familiar with larger quantities—not in the matter of coating the particles, but in helping to produce a froth that floated instead of granules that sank, and thus in preserving the slime made by the smaller particles with the water, and so saving a large proportion of metal that otherwise would have been lost. The fact was a general one. No particular oil was mentioned and the fact was not confined to oils. The public was directed to make a "simple preliminary test to determine which oily substance yields the proportion of froth or scum desired". The patent having been held good as to the oils although experiment was necessary to find out what oil would work best with a given ore the disclosure was an anticipation although experiment might be necessary to choose among the substances having the required affinity the one that would produce the best result.

The petitioner adverts to the success that has attended the later patent and to the fact that the world waited until it appeared. But interlopers naturally would be slow to venture into the field occupied by a powerful company armed with Patent No. 835,120 and supported by a subtle ingenuity that we cannot doubt would have been exercised with even more effect to show that a process like that in No. 962,678 was an infringement than it now is to prove that the later patent was a revelation that transformed the art.

Decree affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GILL

No. 2,176. Decided December 19, 1929

PATENTABILITY—THE METHOD OF ASSEMBLING INTERNAL-COMBUSTION ENGINES.

Claims for the method of assembling internal-combustion engines in which the pistons are mechanically clamped in a common vertical plane *Held* anticipated by the prior art in which the pistons were held in place by hand.

APPEAL from the Patent Office. Affirmed.

Mr. W. B. Kerkham and *Mr. F. B. Smith* for Gill.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from a decision of the Board of Appeals affirming the decision of the Examiner denying all claims in appellant's application for a patent for an alleged invention relating to a method of assembling "certain major units" of internal-combustion engines, during manufacture, including the crank case, crank shaft, pistons, connecting rods, and cylinder blocks.

Claims 1, 4, and 9 are illustrative and read as follows:

1. The method of assembling internal combustion engines which consists in first placing the crank shaft in its bearings in the crank case of said engine, then securing the connecting rods and pistons to the crank shaft, then mechanically clamping all the pistons in a common vertical plane, then lowering the cylinder block to the crank case while mechanically guiding the cylinders in a predetermined, fixed path over the pistons.

4. The method of assembling the cylinder blocks and crank cases in internal combustion engines which consists in first securing the crank case in position to receive the cylinder block, then suspending the cylinder block over the crank case, then mechanically securing the pistons in the vertical plane of the cylinder block and securing the crank shaft in its corresponding position, then in lowering and mechanically guiding the block into position on the crank case over the pistons and vibrating the block during the lowering thereof.

9. The method of assembling the pistons in the cylinder block of an internal combustion engine which consists in arranging the pistons in a common axial plane and a pair of parallel planes at right angles thereto, then compressing the rings of said piston in the grooves thereof, then mechanically clamping the pistons to retain them in position and to retain said rings in their grooves, then alining the cylinder blocks in the axial plane of the pistons, and then moving the cylinder block into cooperation with the pistons while mechanically maintaining said alinement.

The application of appellant also discloses an apparatus for carrying out the alleged novel process. The apparatus, however, is not involved in this appeal. With reference to the prior art, appellant states in his application that:

In the assembly of these engines as heretofore practiced, it has been customary to lower such cylinder blocks over the pistons toward the crank case either by hand, or by the use of an ordinary chain block. As the heavy casting was lowered, the pistons, secured to their respective connecting rods on the engine crank shaft, were individually started into their proper cylinders in the cylinder block, the rings on each of the pistons being compressed in turn, as necessary. In this process of handling the work, there is no adequate control over motions of the cylinder block, especially lateral motions thereof. As a result, pistons have frequently stuck in their cylinders, because of difficulty in adequately compressing the rings in their grooves and for other reasons, and it has not been uncommon practice to pull and shake the cylinder block, and even to rap it with a hammer, in an endeavor to free a stuck piston. Such practices result in more or less lateral motion of the block with respect to the crank case, and as will be readily understood, such lateral motion puts a tremendous strain upon the rods and bearings of those pistons that are already engaged in their cylinders, and rods were frequently sprung and bent, and bearings distorted and cracked for this reason.

Appellant was allowed certain claims in his divisional application for an apparatus patent.

It appears from the record that prior to the invention of appellant's apparatus, the pistons were secured to their respective connecting rods, the piston rings were held in position by compression clamps, and the cylinder block, suspended over the pistons, was lowered "either by hand, or by the use of an ordinary chain block." The cylinder block was held in place or guided by workmen as it approached the crank case and the pistons were held and inserted into the cylinders by other workmen. Frequently, because of the inability of the workmen to hold it precisely in its predetermined plane, the cylinder block moved laterally as the pistons were being inserted causing one or more of them to "stick" in the cylinders. The strain thus placed upon the rods and bearings caused injury to them. In an effort to overcome these difficulties the cylinder block was sometimes shaken or struck with a hammer in order to cause it to vibrate.

The apparatus disclosed by appellant provides a means for mechanically clamping and holding the pistons in the desired positions. The cylinder block is not only mechanically guided in its descent to the crank case, but it is, also, mechanically vibrated as it comes in contact with the pistons. These mechanical operations save time and effort, prevent the pistons sticking in the cylinders, and, also, prevent injury to the connecting rods and bearings.

In denying the process claims of appellant, the Board of Appeals, among other things, said:

• • • Stating the ground of rejection broadly it is that the essential steps of the claimed method are old in the procedure followed in assembling pistons in cylinder blocks as set forth on pages 3 and 4 of appellant's specification. In the memorandum filed with the request for rehearing it is pointed out that the prior art does not disclose the step incinded in certain of the claims of "clamping all the pistons in a common vertical plane" or guiding the cylinder block while lowering the same in a predetermined rectilinear path." The point is also made that the limitation to "vibrating" the cylinder block "within fixed limits" and included in certain claims is not disclosed in the prior art. But the prior art procedure was attempting to do these things although not with entire success. Thus when the pistons were moved to vertical positions under the cylinder block they were held there as rigidly as they could be manually and the only difference between appellant's method and the prior art so far as holding the pistons in an upright position is concerned is the difference between holding a thing manually and holding it by a machine. The same situation exists with respect to the lowering of the cylinder block in a predetermined rectilinear path. Obviously, that is the way in which the block would be lowered in prior art procedure so far as it was possible to guide the block in its lowering movement manually. Here again there is no new conception so far as a method is concerned but only the selection or invention it may be of a better apparatus for controlling the lowering movement. Touching the limitation in some of the appealed claims to vibrating the cylinder block "within fixed limits" the prior art procedure as acknowledged in appellant's specification was to rap the cylinder block with a hammer when the piston stuck in the cylinder. So far as the vibrating step is concerned this is merely a refinement based on the particular machine employed to effect the vibration.

If the process disclosed by appellant is novel, he is entitled to be protected by the patent. If, on the contrary, as held by the Board of Appeals, the claimed process is old, and the invention of a new and improved apparatus is appellant's sole contribution to the art, he is not entitled to a patent and the decision of the Board of Appeals should be affirmed.

It is contended by counsel for appellant that prior to the use of the method disclosed in appellant's application, it was impossible to control the lateral motions of the cylinder block as it came in contact with the pistons, and that, as a consequence, the cylinders, rods, and bearings were sometimes injured; that no one had "conceived the possibility of rigidly clamping the pistons in position to facilitate" their insertion into the cylinders, and that the old method of inserting them by hand was a time-consuming "diddling and fiddling" process; that in the old "hand" method of vibrating the cylinder block, it was impossible to secure the precise degree of vibration desired; and that time and money have been saved, and accuracy attained, by the use of appellant's new and improved process.

The Solicitor for the Patent Office concedes that appellant has invented a new and valuable apparatus for assembling internal-combustion engines, but he insists that the claimed process is old.

We think it clearly appears that the difficulties encountered in assembling certain major units of internal-combustion engines by "hand," have been considerably, if not entirely, eliminated by the use of the apparatus invented by appellant. We are unable, however, to accept the view that a novel process has been devised.

The process of lowering the cylinder block and causing it to vibrate as the pistons were inserted in the cylinders is old. Under the alleged novel process the pistons are held in place by clamps; formerly they were held in place by workmen. So, it seems to us, the claimed process is old, and the new and beneficial results are obtained by the means, and not by the process, employed.

We are in accord with the views expressed by the Board of Appeals, and its decision is, therefore, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GILL

No 2,177. Decided December 19, 1929

PATENTABILITY—MEANS FOR ASSEMBLING INTERNAL-COMBUSTION ENGINES.

Certain claims for means for assembling internal-combustion engines *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Cameron & Kerkham and *Mr. W. B. Kerkham* and *Mr. F. B. Smith* for Gill.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.*:

This is an appeal from the action of the Board of Appeals of the Patent Office affirming a decision of the Examiner rejecting claim 6 and claims 11 to 15, inclusive, made by appellant relative to claimed invention or inventions of "improvements in means for assembling internal-combustion engines." It differs from appeal No. 2,176, in that 2,176 constitutes a method application and this one relates to the apparatus.

To express the matter nontechnically, it is the claim of appellant that his structure, taken as a whole, constitutes a device by means of which a great improvement has been wrought over the method of assembling certain parts of automobile engines, which method had been utilized prior to his claimed invention, and which is still utilized in many factories, the function particularly emphasized being that of lowering the cylinder block to the pistons and inserting the pistons into the cylinders.

It is explained that before appellant's structure was devised the customary method was to perform these operations wholly by hand, except that the block might be lowered by means of an ordinary chain block. Workmen stationed at each end would steady and guide the block on its downward

"of course" as to what nature can do, except as proved by observation and experiment. A substance in solution can combine chemically with another and become a solid. Whether a given thing will unite mechanically or whether by its presence it will promote an activity in which it does not share, it is to be found out by trial not by reasoning, and the petitioner agrees that in this case we do not know. It is a matter of reasoning rather than of observation that the oil coats the mineral particles. The experts differ whether the same thing does not take place when a soluble substance is used. But we agree with the defendant's argument that no one concerned in this business would care a straw as to the intimate nature of the action if it produced the result, and that No. 835,120 was not describing the work of insolubles alone. It was not attempting to anticipate a theory of the invisible, but to tell how the practical end could be achieved with any of the different things named.

The discovery was that a very minute portion of the oil worked in an unexpectedly different way from that familiar with larger quantities—not in the matter of coating the particles, but in helping to produce a froth that floated instead of granules that sank, and thus in preserving the slime made by the smaller particles with the water, and so saving a large proportion of metal that otherwise would have been lost. The fact was a general one. No particular oil was mentioned and the fact was not confined to oils. The public was directed to make a "simple preliminary test to determine which oily substance yields the proportion of froth or scum desired". The patent having been held good as to the oils although experiment was necessary to find out what oil would work best with a given ore the disclosure was an anticipation although experiment might be necessary to choose among the substances having the required affinity the one that would produce the best result.

The petitioner adverts to the success that has attended the later patent and to the fact that the world waited until it appeared. But interlopers naturally would be slow to venture into the field occupied by a powerful company armed with Patent No. 835,120 and supported by a subtle ingenuity that we cannot doubt would have been exercised with even more effect to show that a process like that in No. 962,678 was an infringement than it now is to prove that the later patent was a revelation that transformed the art.

Decree affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GILL

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PATENTABILITY—THE METHOD OF ASSEMBLING INTERNAL-COMBUSTION ENGINES.

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Mr. W. B. Kerkham and *Mr. F. B. Smith* for Gill.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from a decision of the Board of Appeals affirming the decision of the Examiner denying all claims in appellant's application for a patent for an alleged invention relating to a method of assembling "certain major units" of internal-combustion engines, during manufacture, including the crank case, crank shaft, pistons, connecting rods, and cylinder blocks.

Claims 1, 4, and 9 are illustrative and read as follows:

1. The method of assembling internal combustion engines which consists in first placing the crank shaft in its bearings in the crank case of said engine, then securing the connecting rods and pistons to the crank shaft, then mechanically clamping all the pistons in a common vertical plane, then lowering the cylinder block to the crank case while mechanically guiding the cylinders in a predetermined, fixed path over the pistons.

4. The method of assembling the cylinder blocks and crank cases in internal combustion engines which consists in first securing the crank case in position to receive the cylinder block, then suspending the cylinder block over the crank case, then mechanically securing the pistons in the vertical plane of the cylinder block and securing the crank shaft in its corresponding position, then in lowering and mechanically guiding the block into position on the crank case over the pistons and vibrating the block during the lowering thereof.

9. The method of assembling the pistons in the cylinder block of an internal combustion engine which consists in arranging the pistons in a common axial plane and a pair of parallel planes at right angles thereto, then compressing the rings of said piston in the grooves thereof, then mechanically clamping the pistons to retain them in position and to retain said rings in their grooves, then alining the cylinder blocks in the axial plane of the pistons, and then moving the cylinder block into cooperation with the pistons while mechanically maintaining said alinement.

The application of appellant also discloses an apparatus for carrying out the alleged novel process. The apparatus, however, is not involved in this appeal. With reference to the prior art, appellant states in his application that:

In the assembly of these engines as heretofore practiced, it has been customary to lower such cylinder blocks over the pistons toward the crank case either by hand, or by the use of an ordinary chain block. As the heavy casting was lowered, the pistons, secured to their respective connecting rods on the engine crank shaft, were individually started into their proper cylinders in the cylinder block, the rings on each of the pistons being compressed in turn, as necessary. In this process of handling the work, there is no adequate control over motions of the cylinder block, especially lateral motions thereof. As a result, pistons have frequently stuck in their cylinders, because of difficulty in adequately compressing the rings in their grooves and for other reasons, and it has not been uncommon practice to pull and shake the cylinder block, and even to rap it with a hammer, in an endeavor to free a stuck piston. Such practices result in more or less lateral motion of the block with respect to the crank case, and as will be readily understood, such lateral motion puts a tremendous strain upon the rods and bearings of those pistons that are already engaged in their cylinders, and rods were frequently sprung and bent, and bearings distorted and cracked for this reason.

Appellant was allowed certain claims in his divisional application for an apparatus patent.

It appears from the record that prior to the invention of appellant's apparatus, the pistons were secured to their respective connecting rods, the piston rings were held in position by compression clamps, and the cylinder block, suspended over the pistons, was lowered "either by hand, or by the use of an ordinary chain block." The cylinder block was held in place or guided by workmen as it approached the crank case and the pistons were held and inserted into the cylinders by other workmen. Frequently, because of the inability of the workmen to hold it precisely in its predetermined plane, the cylinder block moved laterally as the pistons were being inserted causing one or more of them to "stick" in the cylinders. The strain thus placed upon the rods and bearings caused injury to them. In an effort to overcome these difficulties the cylinder block was sometimes shaken or struck with a hammer in order to cause it to vibrate.

The apparatus disclosed by appellant provides a means for mechanically clamping and holding the pistons in the desired positions. The cylinder block is not only mechanically guided in its descent to the crank case, but it is, also, mechanically vibrated as it comes in contact with the pistons. These mechanical operations save time and effort, prevent the pistons sticking in the cylinders, and, also, prevent injury to the connecting rods and bearings.

In denying the process claims of appellant, the Board of Appeals, among other things, said:

* * * Stating the ground of rejection broadly it is that the essential steps of the claimed method are old in the procedure followed in assembling pistons in cylinder blocks as set forth on pages 3 and 4 of appellant's specification. In the memorandum filed with the request for rehearing it is pointed out that the prior art does not disclose the step included in certain of the claims of "clamping all the pistons in a common vertical plane" or guiding the cylinder block while lowering the same in a "predetermined rectilinear path." The point is also made that the limitation to "vibrating" the cylinder block "within fixed limits" and included in certain claims is not disclosed in the prior art. But the prior art procedure was attempting to do these things although not with entire success. Thus when the pistons were moved to vertical positions under the cylinder block they were held there as rigidly as they could be manually and the only difference between appellant's method and the prior art so far as holding the pistons in an upright position is concerned is the difference between holding a thing manually and holding it by a machine. The same situation exists with respect to the lowering of the cylinder block in a predetermined rectilinear path. Obviously, that is the way in which the block would be lowered in prior art procedure so far as it was possible to guide the block in its lowering movement manually. Here again there is no new conception so far as a method is concerned but only the selection or invention it may be of a better apparatus for controlling the lowering movement. Touching the limitation in some of the appealed claims to vibrating the cylinder block "within fixed limits" the prior art procedure as acknowledged in appellant's specification was to rap the cylinder block with a hammer when the piston stuck in the cylinder. So far as the vibrating step is concerned this is merely a refinement based on the particular machine employed to effect the vibration.

If the process disclosed by appellant is novel, he is entitled to be protected by the patent. If, on the contrary, as held by the Board of Appeals, the claimed process is old, and the invention of a new and improved apparatus is appellant's sole contribution to the art, he is not entitled to a patent and the decision of the Board of Appeals should be affirmed.

It is contended by counsel for appellant that prior to the use of the method disclosed in appellant's application, it was impossible to control the lateral motions of the cylinder block as it came in contact with the pistons, and that, as a consequence, the cylinders, rods, and bearings were sometimes injured; that no one had "conceived the possibility of rigidly clamping the pistons in position to facilitate" their insertion into the cylinders, and that the old method of inserting them by hand was a time-consuming "diddling and fiddling" process; that in the old "hand" method of vibrating the cylinder block, it was impossible to secure the precise degree of vibration desired; and that time and money have been saved, and accuracy attained, by the use of appellant's new and improved process.

The Solicitor for the Patent Office concedes that appellant has invented a new and valuable apparatus for assembling internal-combustion engines, but he insists that the claimed process is old.

We think it clearly appears that the difficulties encountered in assembling certain major units of internal-combustion engines by "hand," have been considerably, if not entirely, eliminated by the use of the apparatus invented by appellant. We are unable, however, to accept the view that a novel process has been devised.

The process of lowering the cylinder block and causing it to vibrate as the pistons were inserted in the cylinders is old. Under the alleged novel process the pistons are held in place by clamps; formerly they were held in place by workmen. So, it seems to us, the claimed process is old, and the new and beneficial results are obtained by the means, and not by the process, employed.

We are in accord with the views expressed by the Board of Appeals, and its decision is, therefore, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE GILL

No 2,177. Decided December 19, 1929

PATENTABILITY—MEANS FOR ASSEMBLING INTERNAL-COMBUSTION ENGINES.

Certain claims for means for assembling internal-combustion engines *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Messrs. Cameron & Kerkham and *Mr. W. B. Kerkham* and *Mr. F. B. Smith* for Gill.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.*:

This is an appeal from the action of the Board of Appeals of the Patent Office affirming a decision of the Examiner rejecting claim 6 and claims 11 to 15, inclusive, made by appellant relative to claimed invention or inventions of "improvements in means for assembling internal-combustion engines." It differs from appeal No. 2,176, in that 2,176 constitutes a method application and this one relates to the apparatus.

To express the matter nontechnically, it is the claim of appellant that his structure, taken as a whole, constitutes a device by means of which a great improvement has been wrought over the method of assembling certain parts of automobile engines, which method had been utilized prior to his claimed invention, and which is still utilized in many factories, the function particularly emphasized being that of lowering the cylinder block to the pistons and inserting the pistons into the cylinders.

It is explained that before appellant's structure was devised the customary method was to perform these operations wholly by hand, except that the block might be lowered by means of an ordinary chain block. Workmen stationed at each end would steady and guide the block on its downward

course to the point of contact with the pistons and other workmen were then required to hold the pistons rigid while they were guided into the cylinders. It is asserted that this method was a difficult and unsatisfactory one, not only because of the requirement for extra labor in making the assembly, but because of the great trouble in securing such precision of alignment with the different pistons as to enable the block to go down over them to its base. The statement is that frequently it would be necessary to strike the block with a hammer or other tool so as to obtain a vibration sufficient to slip the closely fitting pistons in their proper places and that these strokes sometimes resulted in injury to the pistons by bending them; and that if the block moved slightly just as the pistons were entering the cylinder the former would stick and it would be necessary to raise the block and lower it again. Affidavits on file allege ill effects from this hand method assembly to include (*a*) bent connecting rods, (*b*) damaged pistons, (*c*) scored pistons or cylinders, due to misalignment, (*d*) broken piston rings, (*e*) piston knock, due to a bent connecting rod, and (*f*) gas leaks in the engine, due to scored cylinders.

It is claimed by appellant that his machine is so devised as that in operation it will hold the pistons rigid and lower the cylinder block in a predetermined rectilinear path, so that the pistons will enter the cylinders in perfect alignment, the block being given any slight oscillation essential by means of a pneumatic vibrating mechanism.

Appellant's brief gives a technical description of the machine and its method of operation as follows:

> The Gill machine, constituting the subject-matter of the present invention, comprises a frame 36 adapted to be moved along a track, which frame carries hoisting mechanism that is preferably of the pneumatic type, the cylinder for the pneumatic hoisting and lowering device being designated by the numeral 41 in the application drawings. Rigidly attached to the piston rod 45 which projects from cylinder 41 is a fixture 53, which is rigidly secured to a cylinder block, to be assembled, by means of wing nuts 63 and lugs 61 which engage the stud bolt 62 on the cylinder. The construction is such that the heavy cylinder block can be lowered in a predetermined rectilinear path. The crank case 11 with the crankshaft 19 mounted therein and with the connecting rods 18 and pistons 17 attached thereto, is mounted by means of grooved wheels 28 on rails 32, constituting an assembly track. Mounted alongside the assembly track is a stationary fixture 65 which has a horizontally disposed portion 66 that overhangs the track and which supports a pair of vertically disposed guide posts 67 which, as the block is lowered, extend into and through openings 60 of the fixture or bracket 53. By this means the cylinder block is restrained in its lowering movement to a predetermined rectilinear path, and is lowered in absolute alignment with the pistons.

The Patent Office tribunals held that there were certain features of invention in the structure and some of the claims were granted, but Nos. 6 and 11–15 were disallowed, and these constitute the issue before us.

Claim 12 is taken by appellant as illustrative of all six, but we observe from the record that before the tribunals of the Patent Office No. 6 was very earnestly pressed and think it well to quote both of them in full:

> 6. The combination in a device for assembling internal combustion engines having a crank case and a cylinder block adapted for mounting on said crank case, of means for lowering the cylinder block into position on said crank case, and members adapted to guide said cylinder block in a rectilinear path while being lowered.

> 12. A device for assembling the pistons of an internal combustion engine in the cylinders of the cylinder block thereof comprising clamping means to secure the pistons in the plane of said cylinders, and means including guiding members for moving the said block into position with respect to said cylinders in a rectilinear path in the said plane of the cylinders.

The reference cited in the rejection of the claims is to a patent to Somers of August 20, 1872, being No. 130,758, entitled, "An improvement in tube-making machines."

It may be stated that after the rendition of the Board's decision on November 29, 1927, a petition for rehearing was filed and therewith were presented copies of affidavits filed in a co-pending appeal which is now the appeal No. 2,176, supra, and these affidavits are a part of the printed record in the instant case. The final decision upon the re-hearing was rendered January 16, 1928, the Board stating "we * * * find no reason for departing from the conclusions announced in our former decision."

The Board in its final decision says:

> The request for rehearing is accompanied by certain affidavits which establish the commercial unity of the claimed invention. But the affidavits do not, in our judgment, establish appellant's right to claims of the scope of those rejected in this application. In a companion case Serial No. 692,506 we have discussed at some length in a decision rendered this day on a request for rehearing the relation to the prior art of appellant's contribution. While the claims of the companion case are directed to a method the disclosures of the two cases are identical.

Referring to the decision in Serial No. 692,506, we find the language of the Board of Appeals:

> Stating the ground of rejection broadly it is that the essential steps of the claimed method are old in the procedure followed in assembling pistons in cylinder blocks as set forth on pages 3 and 4 of appellant's specification. In the memorandum filed with the request for rehearing it is pointed out that the prior art does not disclose the step included in certain of the claims of "clamping all the pistons in a common vertical plane" or guiding the cylinder block while lowering the same in a "predetermined rectilinear path." The point is also made that the limitation to "vibrating" the cylinder block "within fixed limits" and included in certain claims is not disclosed in the prior art. But the prior art procedure was attempting to do these things although not with entire success. Thus when the pistons were moved to vertical positions under the cylinder block they were held there as rigidly as they could be manually and the only difference between appellant's method and the prior art so far as holding the pistons in an upright position is concerned is the difference between holding a thing manually and holding it by a machine. The same situation exists with respect to the lowering of the cylinder block in a predetermined rectilinear path. Obviously that is the way in which the block would be lowered in prior art procedure so far as it was possible to guide the block in its lowering movement manually. Here again there is no new conception so far as a method is concerned but only the selection or invention it may be of a better apparatus for controlling the lowering movement.

The paragraph just quoted applied immediately to the method application involved in appeal No. 2,176, but the reasoning seems also to apply to the apparatus claims herein involved. and, as has been stated, certain apparatus invention was found and allowed in connection with appellant's structure.

We are unable to discover invention in those claims which were disallowed and are here involved. *Murray Rubber Co.* v. *De Laski & Thropp Circular Woven Co.*, 21 F. (2d) 822,825, seems to be directly in point, where it was said by the Circuit Court of Appeals of the Third Circuit, speaking through Judge Woolley:

> Although invention may be found in mechanism that supplants hand operation, particularly where mechanism, in way of its own, dispenses with human element, where there has been no substantial change in mechanism or method of making product, and steps are same, and succession from one step to the other is the same as those in manual art, general rule of patent law is against "invention."

We find no error in the decision of the Board of Patent Appeals, and the same is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MARSON

No. 2,140. Decided December 23, 1929

1. PATENTABILITY—FOLDING CHAIR.

   A claim for a folding chair including "links pivotally connecting said back and brace legs" *Held* unpatentable to applicant as not reading upon his disclosure, in which the parts are connected by a pivoted sleeve sliding on the lower portion of the back.

2. SAME—SAME.

   Certain claims for a folding chair including sliding and pivoted sleeves connecting the back and legs *Held* patentable, since that feature does not appear in the references cited and is not suggested by them.

APPEAL from the Patent Office. Reversed in part.

Mr. B. G. Foster for Marson.

Mr. T. A. Hostetler for the Commissioner of Patents.

GARRETT, *J.*:

This is an ex parte appeal from a decision of the Board of Patent Appeals affirming the action of the Examiner in rejecting claims 1, 2, 3, and 4 made by appellant for a patent for a claimed invention of a folding chair.

The application in the form first rejected by the Examiner rested upon three claims, which read as follows:

> 1. A folding chair comprising front leg members, a back pivoted at its upper end to and between the upper end portions of the front leg members, rear legs pivoted at their upper ends to intermediate portions of the front leg members and being located at the inner sides of the same, a seat having its main body extending between and pivoted directly to the front leg members below the upper ends of the rear legs, the rear end of the main body of said seat being reduced in width and located between the upper ends of the rear legs, sliding connections between said reduced rear end of the main body of the seat and the rear legs, and sliding connections between the lower end of the back and the rear legs between the pivotal connections and the sliding connections of the seat therewith.
>
> 2. A folding chair comprising front leg members, a back pivoted at its upper end to and between the upper end portions of the front leg members, rear legs pivoted at their upper ends to intermediate portions of the front leg members and being located at the inner sides of the same, a seat having its main body extending between and pivoted directly to the front leg members below the upper ends of the rear legs, said rear legs having longitudinal slots and the rear end of the seat having lugs slidable in the slots, and sliding sleeve connections between the lower end of the back and the upper ends of the rear legs above the slots.
>
> 3. A folding chair, comprising front leg members, a back pivoted at its upper end to and between the upper end portions of the front leg members, rear legs pivoted at their upper ends to intermediate portions of the front leg members and being located at the inner sides of the same, a seat having its main body extending between and pivoted directly to the front leg members below the upper ends of the rear legs, said rear legs having longitudinal slots and the rear end of the main body of the seat being reduced in width and extending between the rear legs, said reduced portions having outstanding lugs slidable in the slots, the lower end of the back being reduced in width and extending between the upper ends of the rear legs above the seat, and sliding sleeve connections between the reduced lower end of the back and the upper end of the rear legs above the slots and the seat.

These were rejected upon three prior patents, to wit: Wolfe, No. 1,284,528, November 12, 1918; Travers, No. 1,396,794, November 15, 1921; Decker, No. 274,730, March 27, 1883.

The final decision by the Examiner as to these three claims was rendered September 1, 1925. An appeal was taken to the Board and while same was pending it was discovered that a patent, No. 1,609,689, had been issued on December 7, 1926, to George H. Bugenhagen, which was and is claimed to contain subject matter that constitutes an interference with appellant's application. Appellant, on May 27, 1927, filed a petition, asking that the case be withdrawn temporarily from appeal and that an amendment adding an additional claim as No. 4 be entered. This claim reads:

> 4. A folding chair, comprising rigid side bars extending throughout the length of the chair, brace legs pivoted thereto adjacent the centers thereof, a seat between and pivoted to said bars in a plane below the pivotal connection of the brace legs to the bars, a back between and pivoted at its upper end to said side bars, links pivotally connecting said back and brace legs, and means for limiting movement of the seat in one direction.

By direction of the Acting Commissioner, the petition was allowed to the extent necessary for the requisite procedure in the Patent Office, and the proposed amendment was directed to be entered and the Examiners in Chief authorized to consider it in connection with the claims on appeal. The Examiner rejected the claim made by this amendment and on October 6, 1927, the appeal having been prosecuted, the Board of Appeals affirmed the decision of the Examiner upon all four claims, and from this decision the present appeal has been taken, bringing the matter before this court.

Error is assigned upon the rejection of all four claims, but appellant here argues that the issue revolves primarily about claim No. 4, and invloves the question whether claim No. 1, in the Bugenhagen patent, embraces subject matter that constitutes an interference with appellant's application which was filed prior to the Bugenhagen application.

Appellant's claim 4 inserted by way of amendment is in the exact language of Bugenhagen's claim 1. Discussing it the Board of Appeals, in its decision, says:

> Applicant has copied a claim from the patent to Bugenhagen, No. 1,609,689, with a view to an interference. This claim was rejected as not supported by applicant's disclosure. In Bugenhagen the lower end of the back is connected to the rear legs by links 30, 31 and these links are an element of the claim. In applicant's chair the back is connected to the rear legs by the pivoted sleeve 23 sliding on the lower portion of the back. The Examiner holds that the term links in the claim is not broad enough to cover the pivoted sleeves 23. The word "link" is sometimes used very broadly to cover any connection or joining of parts together but when used to define a mechanical structure it is generally understood to refer to a bar pivoted at each end to other parts of the structure. The Examiner holds that it was used in this sense in allowing the Bugenhagen claim and if construed more broadly the claim would not be patentable over Wolfe of record. However this may be we are of the opinion that the word has a well understood meaning in the art and cannot be broadened to cover any and all forms of pivotal connections. In considering the right of a party to make a claim we are not concerned with the question of equivalents and if the structures were held to be equivalents, the patent to Wolfe would be a reference for both.

It seems from a study of the decisions of the Examiner and the Board of Appeals that they differentiated between the devices referred to in the Bugenhagen claim as links and those which they refer to in appellant's application as "sliding and pivoted sleeves." Relative to the former, the Examiner says:

> The links are links 30 and 31 of Bugenhagen, shown clearly in his Fig. 1 as elongated elements pivoted at one

end to the back 29 and at the other end to brace legs 18 and 19, respectively.

Of the latter he says:

Instead of these (links as immediately above described) applicant discloses sleeves 22 which are pivoted to the respective brace legs 5 and 6 by pivot 25 and have flanges 23, 24 slidingly embracing the lateral edges respectively of the back 14.

[1] We are not convinced that the "sliding and pivoted sleeves" of appellant's claim are so nearly identical with the "links" of the Bugenhagen patent as to justify us in holding that claim 4 of appellant, which was claim 1 of Bugenhagen, covers the device and entitles appellant to have the Bugenhagen patent declared an interference.

[2] We do think, however, that sliding and pivoted sleeve means as claimed by appellant in claims 1, 2 and 3 constitute invention and that he is entitled to patent thereon under the record before us.

The Board of Appeals, while stating in effect that they do not read directly upon Wolfe or upon any single reference, suggest that certain modifications may be made by substituting the seat-supporting construction of Travers for that of Wolfe so that the claims will be anticipated and that such substitution does not involve invention.

We think that in deducing this suggestion the Board has overlooked the fact that in the sliding operation of the sleeves there is presented a feature which does not appear in either of the references cited, nor, so far as we can determine, is it even suggested by them.

We have held with the Board that the sliding sleeves are not sufficiently similar to the Bugenhagen links to justify the declaration of an interference. We think they differ quite as much from any of the analogous parts of the reference patents as they do from the Bugenhagen links. *In re Levy*, 2 Fed. (2d) 193, the court said:

However, it appears from the Examiner's answer, as well as from appellant's brief, that some modification of the references at least is essential in order to literally meet the terms of the appealed claims. * * * It appearing that the Assistant Commissioner failed to give these claims the broad interpretation of which they reasonably were capable and that when so interpreted they probably would have been allowable to the applicant, we follow our usual course and resolve any doubt in applicant's favor.

It appears to us that the "sliding and pivoted sleeve" feature involved in claims 1, 2, and 3 as patentable.

The decision of the Board is affirmed as to claim 4 and reversed as to claims 1, 2, and 4.

Modified.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 19, 1922]

1,018,502, Just and Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., S. D. Calif. (Los Angeles), Doc. E O–1–M, *General Electric Co.* v. *G. Hohenstein et al.* Patents held valid and infringed Nov. 5, 1928.

1,180,159. (See 1,018,502.)

1,224,632, W. Ghiglieri, Traffic signal; 1,236,441, F. J. Husbands, Automatic traffic signal; 1,524,247, same, Automatic traffic regulator, D. C., S. D. Calif. (Los Angeles), Doc. L–105–M, *Acme Traffic Signal Co.* v. *Waterhouse Signal Corp. et al.* Dismissed Jan. 7, 1930.

1,236,441. (See 1,224,632.) 1,267,409. (See Re. 14,393.)

1,334,302, L. Hicks, Heat-insulating container, D. C., S. D. N. Y., Doc. E 45/81, *Thermopak Co., Inc., et al.* v. *The Hinde & Dauch Paper Co.* Dismissed Jan. 18, 1930.

1,339,395, 1,382,633, 1,547,155, H. L. Ingersoll, Booster motor for locomotives; 1,380,348; R. M. Brown, Controlling mechanism for booster motors, C. C. A., 2d Cir., Doc. 10522, *H. L. Ingersoll et al.* v. *Delaware & Hudson Co.* Decree reversed (notice Jan. 18, 1930).

1,380,348. (See 1,339,395.) 1,383,633. (See 1,339,395.)

1,462,453, W. G. Lerch, Tire construction, D. C., N. D. Ohio (E. Div.), Doc. 2911, *The India Tire & Rubber Co.* v. *The Goodyear Tire & Rubber Co.* Patent held valid and infringed Jan. 17, 1930.

1,483,861, J. P. McCarthy, Method of reclaiming waste, filed Jan. 18, 1930, D. C., S. D. Ohio (W. Div.), Doc. E 653, *The American Laundry Machine Co.* v. *W. C. Dunn.*

1,494,156, C. De Atley, Pressing apparatus, filed Jan. 17, 1930, D. C., S. D. N. Y., Doc. E 51/362, *Superior Steam Iron Co., Inc.*, v. *Rosenbaum Mfg. Co., Inc.*

1,497,095, W. Dubilier, Electrical condenser, C. C. A., 2d Cir., Doc. 10504, *Dubilier Condenser & Radio Corp.* v. *Aerovox Wireless Corp.* Decree affirmed (notice Jan. 18, 1930).

1,524,247. (See 1,224,632.)

1,534,527, H. Joseph, Rubber fabrication, D. C., N. D. Ohio (E. Div.), Doc. 2890, *J. H. Joseph* v. *The Kristee Mfg. Co.* Dismissed Jan. 14, 1930.

1,547,155. (See 1,339,395.)

1,557,376, F. E. Stevens, Hanger structure for meters, C. C. A., 3d Cir., Doc. 4225, *The Kitson Co.* v. *The Lattimer-Stevens Co.* Decree affirmed (notice Jan. 17, 1930).

1,564,909, Steimer and Steimer, Glass-feeding mechanism; 1,573,742, 1,589,304, K. E. Peiler, Feeding molten glass, D. C., S. D. Ohio (W. Div.), Doc. E 413, *Hartford Empire Co.* v. *The Nivison-Weiskopf Co.* Patents 1,564,909 and 1,589,304 held invalid, Patent 1,573,742 held valid and infringed (notice Jan. 10, 1930).

1,573,742. (See 1,564,909.)

1,577,606, E. T. Bennington, Crane, appeal filed Aug. 12, 1929, C. C. A., 3d Cir., Doc. 4238, *Cleveland Crane & Engineering Co.* v. *Reading Chain & Block Corp.*

1,589,304. (See 1,564,909.) 1,591,707. (See 1,591,772.)

1,591,772, 1,591,773, A. H. Nero Attachment-plug receptacle; 1,591,707, W. H. Harrington, same, filed Jan. 6, 1930, D. C. Conn. (New Haven), Doc. E 2038, *The Arrow Electric Co. et al.* v. *The Bridgeport Electrical Mfg. Co. et al.*

1,591,773. (See 1,591,772.)

1,600,073, H. C. Smith, Rotary core barrel and drilling bit, D. C., S. D. Calif. (Los Angeles), Doc. L–119–H, *H. C. Smith* v. *Ellicott Core Drilling Co.* Dismissed Jan. 7, 1930.

1,660,832, R. Conti, Tube forming machine, D. C., S. D. Calif. (Los Angeles), Doc. P–40–J, *A. Hers* v. *Gates-Burns Paper Products Co., Inc.* Patent held valid and infringed Jan. 7, 1930.

1,716,962, H. L. Johnson, Water propulsion device, filed Jan. 17, 1930, D. C., E. D. Mich. (S. Div.), Doc. 3928, *Johnson Bros. Engineering Corp. et al.* v. *Caille Bros. Co.*

Re. 14,393, A. W. George, Hinge-wiring machine; 1,267,409, H. Hermani, Apparatus for applying hinge pintles to box-part blanks, C. C. A., 2d Cir., Doc. 10503, *The Tin Decorating Co. of Baltimore* v. *Metal Package Corp.* Decree affirmed (notice Jan. 18, 1930).

Re. 17,131, O. S. Caesar, Heating apparatus for automotive vehicles, appeal filed Dec. 31, 1929, C. C. A., 8th Cir. (St. Louis), Doc. 8797, *Sears, Roebuck & Co.* v. *Tropic-Aire, Inc.*

Re. 17,323, R. D. Davies, Process of facing the cutting edges of drilling tools, D. C., S. D. Calif. (Los Angeles), Doc. E G–17–M, *P. L. & M. Co.* v. *H. B. Ruggles (The Carboloy Co.).* Patent held valid and infringed Jan. 15, 1930.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 18, 1930

[VOL. 392. No. 8]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 294,638. INDUSTRIAL CHEMICAL SALES COMPANY, INC., New York, N. Y. Filed Jan. 10, 1930.

DIAFILT

For Diatomaceous Earth.
Claims use since Oct. 26, 1929.

CLASS 2

Receptacles

Ser. No. 294,208. THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Dec. 30, 1929.

DIAMOND

For Dishes of Paper or Fibre.
Claims use since April, 1925.

Ser. No. 294,210. THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Dec. 30, 1929.



For Dishes of Paper or Fibre.
Claims use since April, 1925.

Ser. No. 294,827. SAFEWAY SALES CORPORATION, Boston, Mass. Filed Jan. 15, 1930.

SAFEWAY

For Merchandise and Photograph Envelopes.
Claims use since Jan. 7, 1930.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 294,667. FRANKLIN STEEL WORKS, Joliet, Ill. Filed Jan. 11, 1930.



The trade-mark consists of a comparatively large letter S coloured red and superposed upon the term "Sweet's Toe Calks" printed black. No claim is made for the descriptive words "Toe Calks" which are therefore disclaimed from the mark as shown in the drawing.
For Toe Calks for Horseshoes.
Claims use since Nov. 1, 1929.

Ser. No. 295,325. THE BANKETTE CO., Boston, Mass. Filed Jan. 29, 1930.

SCOTTIE

For Pocket Coin Holders.
Claims use since Dec. 26, 1929.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 266,946. THE NORTH AMERICAN POLISH COMPANY, Cleveland, Ohio. Filed May 24, 1928.

NAPCO

For Soaps, Scouring Powders, Spot Removers, Grease Eradicators, Dry-Cleaning Preparations, Paint and Varnish Cleaners, Automobile and Furniture Cleaning Preparations, Metal Polish, Metal-Polishing Cream, Washing Powder; Cleansers for Household, Kitchen, Laundry, Bathroom, and Dairy Use; Liquid Soaps and Shampoo Soaps.
Claims use since Apr. 28, 1926.

Ser. No. 275,293. PARFUMERIE ROGER ET GALLET, SOCIÉTÉ ANONYME, Paris, France. Filed Nov. 14, 1928.



The signature appearing on the drawing is the facsimile signature of Jean Marie Farina, deceased. The words "Eau de Cologne" and "Roger & Gallet Successeurs" are disclaimed apart from the mark as shown on the drawing.
For Soaps.
Claims use since about Dec. 26, 1862.

Ser. No. 278,133. LOOKOUT CHEMICAL CO., Chattanooga, Tenn. Filed Jan. 18, 1929.



The drawing is lined for the color blue.
For Cleanser for Automobiles, Battery Terminals, Carpets, Rugs, Dishes, Furniture, Linoleum, Painted Surfaces, Bathtubs, and Washable Silks and Woolens.
Claims use since January, 1927.

Ser. No. 287,193. MILWAUKEE LUBRICANTS CO., Milwaukee, Wis. Filed July 16, 1929.

FIRST SUDS

For Powdered Soap.
Claims use since June 25, 1928.

Ser. No. 287,261. LLOYD WILLIAM MILTON, doing business as Milton Laboratories, Chicago, Ill. Filed July 17, 1929.



No claim is made for the word "Savoy" apart from the mark shown in the drawing.
For Metal-Polishing Cream, Windshield Cloth, and Glass Cleaner.
Claims use since June 3, 1929.

Ser. No. 289,305. G. C. TAYLOR CO., Fairport, N. Y. Filed Sept. 3, 1929.



The words "Soap Powder" appearing on the drawing are disclaimed by applicant as apart from the mark shown.
For Soap Powder.
Claims use since Feb. 20, 1929.

Ser. No. 294,167. MISSOURI CHROMIUM PLATING COMPANY, St. Louis, Mo. Filed Dec. 28, 1929.



Applicant expressly disclaims the word "Chrome" appearing on the drawing apart from the mark shown.
For Metal Cleaner and Polish.
Claims use since Dec. 20, 1929.

Ser. No. 294,286. THOMAS FRANCIS CARROLL, New York, N. Y. Filed Dec. 31, 1929.

WOW!!

For Treated Cleaning, Polishing, and Wiping Cloths for Furniture, Autos, Etc.
Claims use since Nov. 28, 1929.

Ser. No. 294,455. WHITTEMORE BROS. CORP., Cambridge, Mass. Filed Jan. 6, 1930.

SUEDEDENE

For Powder for Cleaning and Recoloring Suede, Ooze, Buck, Castor, and All Undressed Leathers.
Claims use since 1890.

Ser. No. 294,626. DI-OX PRODUCTS CO., INC., New York, N. Y. Filed Jan. 10, 1930.

DI-OX

For General Cleanser for Household and Commercial Use.
Claims use since July 11, 1929.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 278,473. THE LOTAN PRODUCTS COMPANY, Cleveland, Ohio. Filed Jan. 26, 1929.

KA-TAR-OL

For Medicine for the Treatment of Colds and Catarrh.
Claims use since about Dec. 1, 1928.

Ser. No. 282,820. "HEILIT" CHEMISCHES LABORATORIUM INH. APOTHEKER WAGNER & GOEDICKE, Salzwedel, Germany. Filed Apr. 22, 1929.

Heilit

For Medicinal Tea for Use in the Treatment of Rheumatism, Lumbago, Backache, and Nervous Pains of All Kinds.
Claims use since Apr. 19, 1916.

Ser. No. 283,577. GOTTFRIED MILBRANDT, Croswell, Mich. Filed May 6, 1929.

Milbrandt's

The signature "Milbrandt's" is in the handwriting of the applicant.
For Bitters for Indigestion, Dyspepsia, and Asthma, Catarrh Medicine, Eye Medicine, Fever Powder; Green Salve for Burns, Boils, Cuts, Bruises, and Wounds; Cancer Salve, Eczema Ointment; and Tonic for Constipation, Neuralgia, and Rheumatic Conditions.
Claims use since June 6, 1893.

Ser. No. 289,356. H. L. LADD CHEMIST, INC., San Francisco, Calif. Filed Sept. 5, 1929.

KABIMA

For Antacid and Digestant.
Claims use since July 1, 1929.

Ser. No. 290,451. CHAS. C. CARROLL, Jacksonville, Fla. Filed Oct. 1, 1929.



The word "Pilease" is disclaimed apart from the mark as shown in the drawing.
For Medicinal Preparation for Treating Piles.
Claims use since Sept. 1, 1929.

Ser. No. 290,623. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Oct. 3, 1929.

STANCO INCORPORATED

For Insecticides, Deodorants, Disinfectants, Nose and Throat Sprays, Medicinal Mineral Oils, Isopropyl Alcohols, and Petrolatums.
Claims use since Apr. 9, 1928.

Ser. No. 291,510. VIOLA JACKSON, doing business as W. V. L. Jackson, Catskill, N. Y. Filed Oct. 24, 1929.

AMAWUNDA

For Salve for Use in the Treatment of Blood Poisoning, Burns, Bruises, Cuts, Piles, Felons, Boils, Carbuncles, Chilblains, and All Infections of the Skin.
Claims use since Oct. 1, 1929.

Ser. No. 292,592. ORLWEIN CHEMICAL COMPANY, Oelwein, Iowa. Filed Nov. 19, 1929.



The drawing is lined for the colors red and blue, but specific coloring is not an essential feature of the trademark.
For Mineral Compounds—Namely, Physics, Tonics, and Conditioners for Hogs, Sheep, and Poultry.
Claims use since on or about Oct. 1, 1929.

Ser. No. 292,657. MATILDA CREGER, doing business as Dicitrin Laboratories, Los Angeles, Calif. Filed Nov. 21, 1929.

DICITRIN

For Chemicals—Namely, Solvents; Medicines—Namely, Digestion Tablets; Toilet Preparations—Namely, Cold Cream and Hair Wash; Dentifrices, Mouth Washes, Disinfectants, Deodorants, Insecticides, and Douches.
Claims use since Jan. 1, 1921.

Ser. No. 292,919. ANCIENS ETABLISSEMENTS BAIGNOL ET FARJON, Boulogne-sur-Mer, France. Filed Nov. 26, 1929.

YAMILÉ

For Cologne, Toilet Waters, Bath Salts, Face and Body Powders, Paints (Thick and Thin) for the Face, Hands, and Body; Creams for the Face and Hands, Cosmetics and Lotions for the Hair, Brilliantines, Rouge for the Lips, Crayons for the Eyes, Polish for the Nails; and Dentifrices, Including Pastes, Powders, and Liquids.
Claims use since June 22, 1923.

Ser. No. 293,738. MARJORIE JOHNSON, INC., New York, N. Y. Filed Dec. 16, 1929.

Marjorie Johnson

The trade-mark comprises the words "Marjorie Johnson" in script, and is printed in red wherever used on labels or nonmetallic packages. The trade-mark comprises a facsimile of the signature of the secretary of Marjorie Johnson, Inc.

For Finishing Lotion, a Liquid Used for the Exposed Parts of the Body Except the Face for Whitening of the Skin; Foundation Cream, Face Powder, Cleansing Cream; Night Cream, a Lubricating Cream Used for the Face and Designed to Remain Thereon Over Night; Eyebrow Pencil; Eyelash Beautifier, a Mascara Cake for Purposes of Coloring the Eyelash; Lip and Face Rouges; and Eye Paste, a Paste Applied to the Eyelids to Make the Eye Appear Larger.
Claims use since Dec. 20, 1926.

Ser. No. 293,822. CURELLJO G. M. B. H., Wernigerode, near the Harz, Germany. Filed Dec. 18, 1929.

Curelljo

For Preparations for the Hair, Comprising a Dry Shampoo Powder.
Claims use since Sept. 27, 1912.

Ser. No. 294,089. WILLIAM SIEGEL, doing business as Williams Specialty Co., New York, N. Y. Filed Dec. 26, 1929.

CARNOVITA.

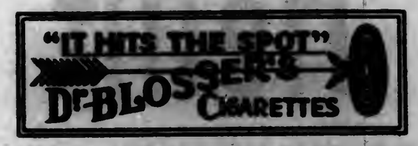
For Tonic for the Relief of Anemia, General Debility, and Mental and Nervous Depression.
Claims use since Nov. 1, 1927.

Ser. No. 294,164. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Dec. 28, 1929.

ANTABS

For Medicinal Preparation for the Relief of Indigestion.
Claims use since Dec. 6, 1929.

Ser. No. 294,203. THE BLOSSER COMPANY, Atlanta, Ga. Filed Dec. 30, 1929.



The word "Cigarettes" is hereby disclaimed apart from the mark as shown in the drawing.
For Medicinal Smoking Preparations Free from Tobacco for Relief of Paroxysms of Asthma.
Claims use since Dec. 11, 1906.

Ser. No. 294,470. CATHERINE'S CHEMICAL LABORATORY, Oklahoma City, Okla. Filed Jan. 7, 1930.



CATHERINE'S
VAPO-BALM

Applicant disclaims the descriptive word "Balm" apart from the mark. The portrait used as a part of the trade-mark is that of a living person and is of one of the applicants, to wit, Catherine Langmack.
For Vapo-Balm or Ointment for External Application for Colds, Influenza, Congestion, Pain, and Neuritis.
Claims use since Sept. 1, 1929.

Ser. No. 294,544. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Jan. 8, 1930.

SOJAL

For Preparation for Dehairing Hides and Preparing Them for Tanning.
Claims use since about Oct. 16, 1928.

Ser. No. 294,686. MAXMILLIAN PFAFFINGER, doing business as Quality Poultry Ranch, Van Nuys, Calif. Filed Jan. 11, 1930.

CU-RO

For Preparation Used in the Treatment of Poultry Diseases—Namely, Roup, Bronchial Pneumonia, Bronchitis, Influenza, Pox, and Canker.
Claims use since about Dec. 30, 1929.

Ser. No. 294,772. ELSIE GRAY, doing business as Ferris & Wright of New York City, Flushing, N. Y. Filed Jan. 14, 1930.

CuFeTone

For Tonic Medicine for All Conditions Where Lowered Hemoglobin Content or Malnutrition is a Factor, Particularly in Simple Anemia, Secondary Anemias (Postoperative or Postinfectious), During Convalescence, and in Malnutrition or Cachexia.
Claims use since October, 1929.

Ser. No. 294,832. JOHN T. WILLIAMS, Jr., doing business as Williams & Co., Brooklyn, N. Y. Filed Jan. 15, 1930.

RHODINE

The drawing is lined to indicate the color red.
For Two Per Centum (2%) Solution of the Drug Dibrom-Oxymercuri Fluorescein.
Claims use since Oct. 25, 1929.

Ser. No. 294,889. PENN-STANDARD SOLE CEMENTING PROCESS, INC., Philadelphia, Pa. Filed Jan. 17, 1930.



For Bottom Finish for Shoe Soles.
Claims use since Jan. 4, 1930.

Ser. No. 294,890. PENN-STANDARD SOLE CEMENTING PROCESS, INC., Philadelphia, Pa. Filed Jan. 17, 1930.



For Bottom Finish for Shoe Soles.
Claims use since Jan. 4, 1930.

Ser. No. 294,930. ELMER SMITH, Wichita, Kans. Filed Jan. 18, 1930.

Sea-foam

For Salve for Cuts, Burns, Bruises, Boils, Pimples, Bone Felon, Corns, Bunions, Callouses, Itching Skin, and Chilblain.
Claims use since Jan. 15, 1930.

Ser. No. 294,934. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y. Filed Jan. 18, 1930.

TITANAMEL

For Ceramic Materials Used in the Manufacture of Enamels and Glazes.
Claims use since May 3, 1929.

Ser. No. 294,961. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Jan. 20, 1930.

BROWNIE

For Developing Powders for Photographic Purposes.
Claims use since Jan. 1, 1901.

Ser. No. 295,118. DE MUSSET, INC., New York, N. Y. Filed Jan. 23, 1930.

pour l'amour

For Perfumes, Face Powders, Toilet Waters, Face Creams, Massage Creams, Rouge, Lip Stick, Eyebrow Pencils, Skin Lotions, Sachets, Bath Salts, Lavender Water and Verbena Water, Talcum and Dusting Powder, Hair Tonics, Shampoos, Pomades, and Brilliantine.
Claims use since about July, 1928.

Ser. No. 295,182. LABORATOIRE DE PHARMACOLOGIE, INC., New York, N. Y. Filed Jan. 24, 1930.

DEPUROSAN



The words "Morbinon Eloquentia Sed Remediis Curantur" are disclaimed apart from the mark shown.
For Horse-Radish Syrup Used as a Vehicle for Iodine Administered Internally.
Claims use since Jan. 11, 1930.

Ser. No. 295,203. R. AVENARIUS & Co., Stuttgart, Germany. Filed Jan. 25, 1930.

Dendrin

For Chemical Preparations for the Protection of Trees and Their Culture, Particularly Fruit Trees and Other Plants, Against Parasites of an Animal or Plant Nature.
Claims use since 1903.

Ser. No. 295,328. ANGELES CAUSA Y RAMIREZ, Habana, Cuba. Filed Jan. 29, 1930.

DIABECARD

For Medicinal Preparation for Treating Diabetes.
Claims use since July, 1928.

Ser. No. 295,523. LUDLOW LABORATORIES INC., Chicago, Ill. Filed Feb. 3, 1930.

NO-BO

For Deodorant.
Claims use since Jan. 2, 1928.

Ser. No 295,537. SIMON L. RUSKIN, doing business as Pasteurol Company, Brooklyn, N. Y. Filed Feb. 3, 1930.

PASTEUROL

For Medicinal Preparation Used in the Treatment of Head Colds.
Claims use since Jan. 28, 1930.

CLASS 7

Cordage

Ser. No. 295,663. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Clotheslines.
Claims use since Oct. 26, 1926.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No 291,643. VULCAN MATCH CO., INC., New York, N. Y. Filed Oct. 26, 1929.



No claim being made to the exclusive use of the outline of the label nor of the words "Safety Matches, Made in Sweden" apart from the mark as shown in the drawing.
For Matches.
Claims use since Sept. 4, 1929.

CLASS 10

Fertilizers

Ser. No. 278,807. CHAS. W. PRIDDY & COMPANY, INCORPORATED, Norfolk, Va. Filed Feb. 2, 1929.

SUNSHINE TOBACCO GROWER

No claim is made to the words "Tobacco Grower" except those rights arising when used in combination as shown.
For Fertilizer.
Claims use since Feb. 1, 1920.

CLASS 11

Inks and Inking Materials

Ser. No. 294,583. THE INTERNATIONAL PRINTING INK CORPORATION, New York, N. Y. Filed Jan. 6, 1930.

ipi

The shading on the drawing is intended to indicate the color red, and this is a particular feature of the mark as shown.
For Intaglio Ink, News Ink, Lithographic Ink, Printing Ink, Stamp Pads, and Inking Ribbons.
Claims use since Dec. 18, 1929.

CLASS 12

Construction Materials

Ser. No. 281,329. WRIGHT METAL INCORPORATED, Jamestown, N. Y. Filed Mar. 25, 1929.



No claim is made to the word and abbreviation "Jamestown, N. Y." and the showing of a partition apart from other elements of the mark as disclosed.
For Partitions.
Claims use since Feb. 23, 1929.

Ser. No. 283,110. FRANKLIN POTTERY (INC.), Lansdale, Pa. Filed Apr. 27, 1929.

POLYCHROME FLINTS

For Wall and Floor Tiles Used for their Decorative, Sanitary, or Surface-Wearing Qualities.
Claims use since January, 1928.

Ser. No. 286,637. INTERNATIONAL CASEMENT COMPANY, Jamestown, N. Y. Filed July 5, 1929.

COTSWOLD CASEMENTS

No claim is made to the word "Casements" apart from the mark as shown in the drawing.
For Casement Windows.
Claims use since Apr. 26, 1929.

Ser. No. 289,992. W. M. RITTER LUMBER COMPANY, Columbus, Ohio. Filed Sept. 19, 1929.

HF

For Rough and Dressed Lumber.
Claims use since 1903.

Ser. No. 291,730. MADERA SUGAR PINE COMPANY, San Francisco, Calif. Filed Oct. 29, 1929.

MADERA SUGAR PINE

The words "Madera Sugar Pine" are disclaimed apart from the other features of the mark shown in the drawings.

For Lumber.

Claims use since on or about Feb. 1, 1921.

Ser. No. 293,318. W. P. FULLER & CO., San Francisco, Calif. Filed Dec. 6, 1929.

Etcht-Kraft

For Sand-Blast Wood Used for Construction Purposes.

Claims use since Nov. 1, 1928.

Ser. No. 293,860. WISCONSIN LAND & LUMBER CO., Hermansville, Mich. Filed Dec. 18, 1929. Under 10-year proviso.

IXL

For Hardwood and Softwood Lumber, Hardwood Flooring and Shingles.

Claims use since on or about Dec. 1, 1889.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 276,516. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed Dec. 10, 1928.

REX

For Blow-Off Valves, Needle Valves, Gas Cocks, Pressure Relief Valves, Water Valves, Fuel Strainers and Traps, and Metal Pipe Fittings.

Claims use since January, 1908, on gas cocks and needle valves and water valves; since September, 1924, on pressure relief valves and blow-off valves; and since January, 1928, on remaining goods.

Ser. No. 286,846. SLOAN VALVE COMPANY, Chicago, Ill. Filed July 10, 1929.

XPELOR

For Valves for Use in Water-Supply Systems.

Claims use since about Oct. 15, 1928.

Ser. No. 293,402. GEO. BAKER & SONS, INC., Brockton, Mass. Filed Dec. 9, 1929.



No registration rights are claimed in the lining which indicates green color on the drawing. No registration rights are claimed for the representation of a tack apart from the mark shown in the drawing.

For Tacks.

Claims use since Nov. 27, 1929.

Ser. No. 293,870. CENTRAL ALLOY STEEL CORPORATION, doing business as Toncan Culvert Manufacturers Association, Massillon, Ohio. Filed Dec. 19, 1929.

TYTON

For Culvert Gates.

Claims use since Oct. 1, 1929.

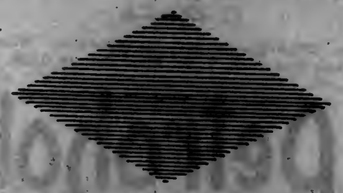
Ser. No. 293,995. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 21, 1929.

GE

For Shut-Off Valves.

Claims use since 1914.

Ser. No. 294,098. UTILITY MANUFACTURING CO., INC., Baltimore, Md. Filed Dec. 26, 1929.

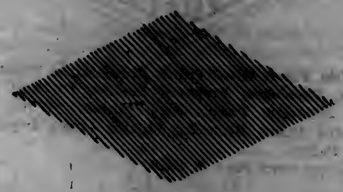


The trade-mark consists of a blue rhomb-shaped figure. The drawing is lined for blue.

For Wire Goods—to wit, Tea and Coffee Strainers, Fruit and Vegetable Strainers, Soup Strainers of Both the Ordinary and Extension Type, Jelly Strainers, Sink Strainers, Plain Ladles, Strainer Ladles, Soap Savers, Soap Dishes, Sponge Baskets, Tumbler Holders, Towel Bars, Toothbrush Holders, Tooth-Paste Holders, Shaving-Brush Holders, Shaving-Cream Holders, Shelf Brackets, Robe Hooks, and Toilet-Paper Holders.

Claims use since Dec. 10, 1929.

Ser. No. 294,100. UTILITY MANUFACTURING CO., INC., Baltimore, Md. Filed Dec. 26, 1929.



The trade-mark consists of a green diamond-shaped figure. The drawing is lined for green.

For Tea and Coffee Strainers, Fruit and Vegetable Strainers, Soup Strainers of Both the Ordinary and Extension Type, Jelly Strainers, Sink Strainers, Plain Ladles, Strainer Ladles, Soap Savers, Soap Dishes, Sponge Baskets, Tumbler Holders, Towel Bars, Toothbrush Holders, Tooth-Paste Holders, Shaving-Brush Holders, Shaving-Cream Holders, Shelf Brackets, Robe Hooks, and Toilet-Paper Holders.

Claims use since Dec. 10, 1929.

Ser. No. 294,597. THE STRUCTURAL SLATE CO., Pen Argyl, Pa. Filed Jan. 9, 1930.

THE STRUCTURAL SLATE CO. PYRAMID PENN-MONT SLATE PEN ARGYL, PA.

Applicant disclaims the use of the words "Trade Mark, Roofing, Flooring, Flagging, Structural Slate," and "Pen Argyl, Pa." apart from the association as shown.

For Natural or Artificial Colored Slate Products—Namely, Urinal Stalls, Shower Stalls, Sinks, Sink Tops, and Toilet Enclosures.

Claims use since June 28, 1929.

Ser. No. 294,600. THE STRUCTURAL SLATE CO., Pen Argyl, Pa. Filed Jan. 9, 1930.

PENN-MONT

For Natural or Artificial Colored Slate Products—Namely, Urinal Stalls, Shower Stalls, Sinks, Sink Tops, and Toilet Enclosures.

Claims use since June 28, 1929.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 292,568. THE INGALLS IRON WORKS CO., Birmingham, Ala. Filed Nov. 18, 1929.

TRIPLE-ITE

For Babbitt and Bearing Metals.

Claims use since Nov. 8, 1929.

CLASS 15

Oils and Greases

Ser. No. 293,504. WEBER OIL COMPANY, INC., New York, N. Y. Filed Dec. 4, 1929.



For Lubricating Oils.
Claims use since Jan. 1, 1927.

CLASS 16

Paints and Painters' Materials

Ser. No. 282,380. FLORENCE L. THOMAS, Palo Alto, Calif. Filed Apr. 13, 1929.



All the wording appearing on the drawing with the exception of the word "Dec-O-Tec-O" and the name "F. L. Thomas" is disclaimed apart from the mark as shown.
For Ready-Mixed Art Paints and Plastic or Stucco Paint Which are Used for Decorative Purposes, and Paint Diluter.
Claims use since Mar. 29, 1929.

Ser. No. 290,865. WISHNICK-TUMPEER, INC., New York, N. Y. Filed Oct. 9, 1929.

DISPERSO

For Carbon Black.
Claims use since Aug. 1, 1929.

Ser. No. 291,478. ROXALIN FLEXIBLE LACQUER COMPANY, INCORPORATED, Long Island City, N. Y. Filed Oct. 23, 1929.



No claim of trade-mark use is made for the words "Quality" and "Integrity" on the accompanying drawing.
For Lacquers and Lacquer Enamels.
Claims use since Aug. 15, 1928.

Ser. No. 293,644. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Dec. 18, 1929.

Petrohol

For Solvents for Paints.
Claims use since Dec. 22, 1919.

Ser. No. 294,247. L. FRANCIS CASSOFF, doing business as The Central Paint and Varnish Works, Brooklyn, N. Y. Filed Dec. 31, 1929.



For Flat Paint, Gloss Paint, Ready-Mixed Paint, Paint Enamels, Varnishes, Prepared Shellac, Oil and Shingle Stains, Concrete Paint, Sign-Painters' White Paint, Banana-Oil Paint, Bronzing Liquid, Japan Dryers, and Asphalt Paint.
Claims use since Sept. 1, 1928.

Ser. No. 294,497. KARL L. TEUBNER, doing business as "Tech Laboratories," Asheville, N. C. Filed Jan. 7, 1930.

LACQUAX

For Polish for Lacquered, Varnished, or Painted Surfaces.
Claims use since March, 1927.

Ser. No. 294,534. THE INTERNATIONAL PRINTING INK CORPORATION, New York, N. Y. Filed Jan. 8, 1930.

ipi

The shading on the drawing is intended to indicate the color red and this is a particular feature of the mark as used.
For Varnishes and Lacquers.
Claims use since Dec. 18, 1929.

CLASS 17

Tobacco Products

Ser. No. 292,508. POWELL & GOLDSTEIN, INC., Oneida, N. Y. Filed Nov. 16, 1929.



In the drawing the portrait of Napoleon is shown and said Napoleon died in the year 1821. The word "Clippings" which appears on the drawing is descriptive of the goods and is disclaimed apart from the mark shown.
For Smoking and Chewing Tobacco.
Claims use since 1889.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 294,633. GUY MOTORS LTD., Wolverhampton, England. Filed Jan. 10, 1930.

GUY

For Automobiles, Motor Boats, Aeroplanes, and Motor Cycles.
Claims use since Oct. 2, 1914.

Ser. No. 294,658. ANCHOR SAWMILLS COMPANY, Pelham Manor, N. Y. Filed Jan. 11, 1930.



The word "Brand" is disclaimed apart from the other features of the mark shown in the drawings.
For Canoe Paddles.
Claims use since Nov. 15, 1929.

Ser. No. 295,245. AMERICAN EAGLE AIRCRAFT CORPORATION, Kansas City, Kans. Filed Jan. 27, 1930.

TOUROPLANE

For Airplanes.
Claims use since July 1, 1929.

Ser. No. 295,370. HAMPDEN AUTOMOTIVE PRODUCTS, INC., Springfield, Mass. Filed Jan. 30, 1930.

UNIVERSAL

For Mud Guards for Attachments to the Fenders of Automobiles.
Claims use since Aug. 17, 1928.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 284,978. ELECTROLUX, INC., New York, N. Y. Filed June 3, 1929.



For Electrical Floor Polishers and Vacuum Cleaners and Parts Therefor.
Claims use since Mar. 1, 1928.

Ser. No. 294,833. ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis. Filed Jan. 3, 1930.

DIXIE QUEEN

For Electric Percolators, Electric Baby-Bottle Warmers, and Electric Lamps.
Claims use since May 1, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 291,048. GEORGE H. BURNETT, JR., Houston, Tex. Filed Oct. 14, 1929.

PATSY

For Sectional Foldable Mechanical Toy Composed of Rectangular Blocks Shiftably Connected by Tie Members.
Claims use since June 1, 1929.

Ser. No. 295,323. AMOS 'N' ANDY DOLL CO., New York, N. Y. Filed Jan. 29, 1930.

AMOS "N" ANDY

For Dolls.
Claims use since Jan. 25, 1930.

Ser. No. 295,429. JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Jan. 31, 1930.

SPOOK

For Artificial Baits.
Claims use since July 1, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 291,992. MANUFACTURE METALLURGIQUE DE TOURNUS, Tournus, France. Filed Nov. 4, 1929.

"ACINOX"

For All Kinds of Table and Kitchen Knives, Forks, and Spoons of Base Metal; Also Butchers' and Gardeners' Knives, Pocketknives, Chopping Knives, and Hatchets, All of Base Metal.
Claims use since about Feb. 1, 1929.

Ser. No. 294,151. CHARLES L. EVERWINE, Newark, N. J. Filed Dec. 28, 1929.

Carbo Vac

For a Mechanical Device Used as an Attachment for an Internal-Combustion Engine for the Removal of Carbon from the Combustion Chambers and Valves Thereof, Otherwise Known as a Carbon-Eliminating Device.
Claims use since Sept. 1, 1929.

Ser. No. 295,115. CHAIN BELT COMPANY, Milwaukee, Wis. Filed Jan. 23, 1930.

MECHANICAL MAN

For Mechanism for Automatically Controlling the Sequence of Operation of Concrete Mixers.
Claims use since January, 1927.

Ser. No. 295,526. HUGH S. MACNAIR, doing business as Mac Blade and Razor Wks., Fremont, Ohio. Filed Feb. 3, 1930.

MAC
SUPER
RAZOR



The word "Razor" is disclaimed except in association with the other features of the mark. The picture forming a part of the mark is that of applicant.
For Razors.
Claims use since Jan. 21, 1930.

Ser. No. 295,527. HUGH S. MACNAIR, doing business as MacBlade Works, Fremont, Ohio. Filed Feb. 3, 1930.

MAC
SUPER
BLADES



The word "Blades" is disclaimed except in association with the other features of the mark. The picture forming a part of the mark is that of applicant.
For Razor Blades.
Claims use since Jan. 21, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 294,990. NATIONAL WASHBOARD COMPANY, Chicago, Ill. Filed Jan. 20, 1930.

BLUE BIRD

For Washboards.
Claims use since May, 1916.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 294,841. THE CONDE NAST PUBLICATIONS, INC., New York, N. Y. Filed Jan. 8, 1930.

VANITY

For Paper Dress Patterns.
Claims use since Dec. 18, 1929.

Ser. No. 294,844. BURLEIGH BROOKS, New York, N. Y. Filed Jan. 16, 1930.

Rolleiflex

For Cameras.
Claims use since Mar. 1, 1929.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 292,868. PHI ALPHA DELTA LAW FRATERNITY, Los Angeles, Calif. Filed Nov. 18, 1929.

ΦΑΔ

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since about Dec. 31, 1921.

Ser. No. 294,512. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

BELMONT

No claim is made to the word "Belmont" apart from the mark shown in the drawing.
For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,513. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

CARLTON

No claim is made to the word "Carlton" apart from the mark shown in the drawing.
For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,515. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

CLARIDGE

No claim is made to the word "Claridge" apart from the mark as shown in the drawing.
For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,516. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

CONSTANCE

For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,517. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

LASALLE

For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,518. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

ISABELLA

For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,519. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

DORA

For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 294,520. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

IRENE

For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 295,477. HERBERT & COMPANY, Detroit, Mich. Filed Feb. 1, 1930.

MANIPOL

For Nail and Cuticle Brushes.
Claims use since Feb. 1, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 283,837. ALBANY DOOR COMPANY, Albany, Oreg. Filed May 11, 1929.

Aldco

For Tables, Table Tops, Chairs, Cabinets, Stools, Cake Boards, and Bread Boards.
Claims use since September, 1928.

Ser. No. 295,446. SPRAGUE & CARLETON, INC., Keene, N. H. Filed Jan. 31, 1930.

"CANDLEBACK"

For Settees and Chairs, Not Including Such as are Used for Dental, Surgical Purposes.
Claims use since Sept. 1, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 289,928. FIRE-O-MATIC, INC., Portland, Oreg. Filed Sept. 18, 1929.

FIRE-O-MATIC

For Comminuted Hard-Fuel Burners.
Claims use since Aug. 15, 1928.

Ser. No. 294,382. BLACK SERVANT MANUFACTURING COMPANY, St. Louis, Mo. Filed Jan. 4, 1930.

BLACK SERVANT

For Automatic Coal Stokers for Furnaces.
Claims use since May 28, 1929.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 284,159. BIGGS & BLACK, INC., New York, N. Y. Filed May 17, 1929.

FAURE IMPERIAL CORD

The word "Cord" is disclaimed apart from the other features of the mark shown in the drawing.
For Rubber Tires for Vehicles.
Claims use since Dec. 1, 1909.

Ser. No. 295,134. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio. Filed Jan. 23, 1930.

LONG DRIVE

For Motor Vehicle Rubber Tires, Casings, and Tubes.
Claims use since Jan. 2, 1930.

Ser. No. 295,201. ALLTEX PISTON RING COMPANY, Brooklyn, N. Y. Filed Jan. 25, 1930.

ALLTEX

For Piston Rings.
Claims use since June 28, 1928.

Ser. No. 295,389. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Jan. 30, 1930.

TANNATE

For U Leathers, Cup Leathers, and Hat or Flange Leathers, the Purpose of said Leathers Being to Eliminate Leakage.
Claims use since Sept. 21, 1929, on U leathers; since Nov. 15, 1929, on cup leathers; and since Jan. 20, 1930, on hat or flange leathers.

Ser. No. 295,558. CORDUROY TIRE COMPANY, Grand Rapids, Mich. Filed Feb. 4, 1930.

BROGAN

For Vehicle Tires Made Wholly or in Part of Rubber.
Claims use since Jan. 8, 1930.

Ser. No. 295,744. THE MOHAWK RUBBER COMPANY, Akron, Ohio. Filed Feb. 7, 1930.

SUPERFECT

For Vehicle Tires of Rubber or Rubber Composition or Rubber and Fabric and Inner Tubes Therefor.
Claims use since on or about Sept. 20, 1929.

CLASS 36

Musical Instruments and Supplies

Ser. No. 291,648. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Oct. 26, 1929.

Western Electric SOUND SYSTEM — The VOICE of ACTION

Applicant disclaims the words "Sound System" apart from the mark as shown in the drawing.
For Apparatus for Recording Sound Effects Upon and Projecting Sound Effects from Records of the Phonograph Type, and Parts Thereof—Namely, Motors, Turntables, Shafts, Drives, Electrical Recorders, Electromagnetic Pick-Ups, Assembled Amplifier Units, Amplifying Horns and Magnets Therefor, Vibration-Absorbing Drives for Disc Recording Turntables, Vibration-Absorbing Drives for Disc Reproducing Turntables, and Equalizers and Attenuators.
Claims use since Mar. 11, 1929.

Ser. No. 294,910. THE BACON BANJO CO., INC., Groton, Conn. Filed Jan. 18, 1930.

Sultana

For Banjo.
Claims use since May 15, 1929.

CLASS 37

Paper and Stationery

Ser. No. 288,402. DUDLEY H. STILES, doing business as Serval System, Kansas City, Kans. Filed Aug. 10, 1929.

THE SERVAL-SYSTEM

No claim is made to the word "System" appearing on the drawing apart from the mark as shown.
For Portable Accounting Records, Individual Record Sheets, and Tables of Figures for Use in Preparing Said Records for Use by Farmers.
Claims use since July 27, 1929.

Ser. No. 292,052. M. & F. SCHLOSSER PAPER CORPORATION, New York, N. Y. Filed Nov. 5, 1929.

DELMA BOND

The exclusive use of the word "Bond" is disclaimed excepting in connection with the mark as shown.
For Writing Paper, Correspondence Cards, and Mailing and Correspondence Envelopes.
Claims use since 1922.

Ser. No. 292,836. THE ULLMAN MANUFACTURING CO., Long Island City, N. Y. Filed Nov. 23, 1929.

ELEPHANT

For Large Toy Crayons for Children.
Claims use since Oct. 25, 1929.

Ser. No. 294,082. THE OHIO WAX PAPER COMPANY, Columbus, Ohio. Filed Dec. 26, 1929.



The lining in the accompanying drawing is for the purpose of shading only.
For Wrapping Paper.
Claims use since Nov. 15, 1929.

Ser. No. 294,506. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed Jan. 8, 1930.

VENCEDOR

For Sulfite Wrapping Paper.
Claims use since October, 1929.

Ser. No. 294,508. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed Jan. 8, 1930.

CISNE

For Sulfite Paper for Printing.
Claims use since October, 1929.

CLASS 38

Prints and Publications

Ser. No. 278,754. SIMMONS-BOARDMAN PUBLISHING CO., New York, N. Y. Filed Feb. 1, 1929.

Airway Age — The FORMERLY SLIPSTREAM

The word "Formerly" being disclaimed.
For Magazine.
Claims use since on or about August, 1919.

Ser. No. 294,475. FIELD PUBLICATIONS, INC., New York, N. Y. Filed Jan. 7, 1930.

HOME & FIELD

For Monthly Periodical.
Claims use since Dec. 30, 1929.

Ser. No. 295,081. NEW METROPOLITAN FICTION, INC., New York, N. Y. Filed Jan. 22, 1930.

Reducing and How!

For Magazine Published Periodically at Least Every Three Months.
Claims use since Dec. 16, 1929.

Ser. No. 295,146. AUTOMOBILE OWNERS ASSOCIATION OF AMERICA, Baltimore, Md. Filed Jan. 28, 1930.

AUTOMOBILE OWNERS ASSOCIATION OF AMERICA

For Maps.
Claims use since Dec. 26, 1929.

Ser. No. 295,292. PAUL W. BOSWELL, doing business as Boswell Oil Company, Cincinnati, Ohio. Filed Jan. 28, 1930.

SUPERBAGRAM

For Semiweekly Publication Devoted to Petroleum Products.
Claims use since Mar. 14, 1927.

Ser. No. 295,346. PEABODY AND COMPANY, Chicago, Ill. Filed Jan. 29, 1930.



For House Business Publications Issued from Time to Time Relative to Investments.
Claims use since on or about Sept. 1, 1929.

Ser. No. 295,368. DR. PETER FAHRNEY & SONS CO., Chicago, Ill. Filed Jan. 30, 1930.

SVIT NÁDEJE

For Periodical Published Annually.
Claims use since Nov. 1, 1929.

Ser. No. 295,424. DAILY GRAPHIC, INC., New York, N. Y. Filed Jan. 31, 1930.

ANIMAL ANTICS

For Series of Cartoons or Comic Strips in a Daily Newspaper.
Claims use since Jan. 8, 1930.

Ser. No. 295,822. WHALEY-EATON SERVICE, INC., Washington, D. C. Filed Feb. 8, 1930.

NATIONAL SPHERE

For Monthly Publication.
Claims use since on or about Feb. 7, 1930.

Ser. No. 295,837. EMPIRE STAMP COMPANY, Imperial, Calif. Filed Feb. 10, 1930.

RED STAR

For Trading Stamps and Trading Coupons.
Claims use since July 21, 1926.

Ser. No. 295,840. FAWCET PUBLICATIONS, INC., Robbinsdale, Minn. Filed Feb. 10, 1930.

MYSTIC MAGAZINE

For Magazines Published Every Month.
Claims use since Jan. 1, 1930.

CLASS 39

Clothing

Ser. No. 288,721. PERKINS DRY GOODS COMPANY, Dallas, Tex. Filed Aug. 19, 1929.

BEAU MONDE

For Hosiery.
Claims use since Apr. 1, 1929.

Ser. No. 290,255. I. JANOV-ABELES SHIRT CO., New York, N. Y. Filed Sept. 26, 1929.

STYLECREST

For Men's Dress Shirts and Negligee Shirts.
Claims use since Jan. 1, 1929.

Ser. No. 293,138. THE P. HAGERTY SHOE COMPANY, Washington Court House, Ohio. Filed Dec. 2, 1929.

DUO-FLEX

For Shoes of Leather and of Leather and Fabrics Combinations.
Claims use since Aug. 1, 1929.

Ser. No. 293,577. A. L. FRIEDLANDER, doing business as E. Friedlander & Sons, San Francisco, Calif. Filed Dec. 12, 1929.

Efson

For Men's, Women's, and Children's Knit Underwear and Pajamas and Nightgowns.
Claims use since Oct. 30, 1929.

Ser. No. 293,680. NATHAN NEUMAN, Philadelphia, Pa. Filed Dec. 14, 1929.



Applicant disclaims the descriptive word "Sportswear."
For Sweaters, Knitted Jackets, and Knitted Bathing Suits.
Claims use since Jan. 1, 1929.

Ser. No. 294,033. MOSES WERTHEIMER, Philadelphia, Pa. Filed Dec. 23, 1929.

3 IN 2

For Children's Combination Garment Comprising a Dress, Waist, and Panty.
Claims use since Aug. 1, 1929.

Ser. No. 294,250. GRUNEWALD NOVICK COMPANY, Chicago, Ill. Filed Dec. 31, 1929.

NUTREND

For Dresses for Misses.
Claims use since Oct. 1, 1929.

Ser. No. 294,758. VICTOR BROWN, doing business as Victor Brown Co., New York, N. Y. Filed Jan. 14, 1930.



No claim being made to the exclusive use of the words "All Silk French Crepe" apart from the mark as shown in the accompanying drawing.
For Women's Silk Underwear—Namely, Bloomers, Slips, Nightgowns, Chemises, Step-Ins, Dance Sets, Pajamas, and Lounging Robes.
Claims use since June 1, 1929.

Ser. No. 294,867. BLAIR BROS., Chicago, Ill. Filed Jan. 17, 1930.

BLAIRBRO

For Ladies' Ready-to-Wear Clothes—Namely, Coats, Suits, Dresses, and Hats.
Claims use since June, 1928.

Ser. No. 294,868. BROOKLYN OVERALL CO., Brooklyn, N. Y. Filed Jan. 17, 1930.



The drawing is lined for the colors dark blue, red, and yellow. No claim is made to the words "Overall, Guaranteed Never to Rip," or "Union Made" apart from the other features of the mark.
For Overalls.
Claims use since about Oct. 15, 1928.

Ser. No. 295,085. SHERWIN & JALLER, New York, N. Y. Filed Jan. 22, 1930.

MODERN BOY

For Boys' Shirts and Blouses.
Claims use since September, 1929.

Ser. No. 295,682. LEBANON TEXTILE MILLS, INC., Lebanon, Pa. Filed Feb. 6, 1930.

PLA-A-WAY

For Boys' and Girls' Play Suits, Overalls, Shorts, Knickers, Wash Suits, and One-Piece Suits.
Claims use since Dec. 1, 1929.

Ser. No. 295,703. WILSON BROTHERS, Chicago, Ill. Filed Feb. 6, 1930.

FAN-FLARE

For Neckties and Cravats.
Claims use since Jan. 18, 1930.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 285,276. KRAFFT & SCHÜLL, Duren, Germany. Filed June 8, 1929.



For Hooks and Eyes and Buckles Made of Nonprecious Metal.
Claims use since Apr. 17, 1895.

Ser. No. 286,375. A. MEYERS & SONS, New York, N. Y. Filed June 29, 1929.

LITTLE DOROTHY SATIN

For Pins Made of Base Metal.
Claims use since June 20, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 276,672. VALWAY RUG MILLS, INC., Lagrange, Ga. Filed Dec. 13, 1928.

VALWAY
SUNTONES

MADE BY
VALWAY RUG MILLS
Division Calloway Mills
LAGRANGE, GEORGIA

The words "Lagrange, Georgia" are disclaimed apart from the mark shown.
For Textiles Comprising Towels, Toweling, Wash Cloths, and Bedspreads.
Claims use since September, 1928.

Ser. No. 289,225. L. BAMBERGER & CO., Newark, N. J. Filed Aug. 31, 1929.

CELESTE

For Hair Nets.
Claims use since July, 1929.

Ser. No. 292,950. LEVY & ANSPACH, New York, N. Y. Filed Nov. 26, 1929.

FROSTONE PRINTS

The word "Prints" is disclaimed apart from the mark shown.
For Piece Goods of Silk, Rayon, Cotton, and Mixtures Thereof.
Claims use since July 1, 1928.

Ser. No. 294,069. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Dec. 26, 1929.

Lacetta

For Piece Goods Made of Silk, Cotton, and Wool.
Claims use since Oct. 26, 1929.

Ser. No. 294,360. MORRIS & COMPANY, INCORPORATED, Baltimore, Md. Filed Jan. 3, 1930.

LUSTROUS MOLETTE

No claim is made to the word "Lustrous" apart from the mark shown in the drawing.
For Cotton Piece Goods.
Claims use since Sept. 10, 1929.

Ser. No. 294,913. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Jan. 18, 1930.

CREPESELA

For Fabrics Made Wholly or Partially of Cellulose Derivatives.
Claims use since Jan. 17, 1930.

Ser. No. 295,076. H. R. MALLINSON & COMPANY, INC., New York, N. Y. Filed Jan. 22, 1930.

Java Willow

Applicant disclaims the word "Java" apart from the mark as shown.
For Silk Piece Goods.
Claims use since Oct. 9, 1929.

Ser. No. 295,148. BROWNING, KING & CO., New York, N. Y. Filed Jan. 24, 1930.

Tri-Value

For Handkerchiefs.
Claims use since Jan. 18, 1930.

Ser. No. 295,580. GREGORY W. SPURR, trustee for Jno. Dunlop's Sons, Inc., doing business as Otesaga Silk Co., New York, N. Y. Filed Feb. 4, 1930.

OTESAGA PRINTS

Exclusive use of the word "Prints" is not claimed apart from the mark shown.
For Silk Piece Goods—Namely, Crepe de Chine, Flat Crepe, Printed Crepe de Chine, Printed Flat Crepe, Printed Rayon Crepe, Printed Silk and Wool Crepe.
Claims use since Sept. 17, 1929.

Ser. No. 295,618. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Feb. 5, 1930.

CREPANA

For Piece Goods of Silk, Cotton, and Wool.
Claims use since Jan. 20, 1928.

Ser. No. 295,671. GAY BROTHERS COMPANY, Cavendish, Vt. Filed Feb. 6, 1930.

GAYCO

For Woolen Piece Goods.
Claims use since Jan. 1, 1930.

CLASS 43

Thread and Yarn

Ser. No. 294,156. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Dec. 28, 1929.

Distra

For Artificial-Silk Thread and Artificial Spinning Fibers.
Claims use since about June 12, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 284,666. BLACKMAN & BLACKMAN, INC., New York, N. Y. Filed May 27, 1929.

FRACTURA

For Bandages Comprising Elastic and Porous Material Having an Adhesive Healing Preparation Thereon.
Claims use since Feb. 10, 1926.

Ser. No. 294,622. JULIUS CHARLESTEIN, doing business as Premier Dental Products Co., Philadelphia, Pa. Filed Jan. 10, 1930.

Premier

For Alloy, Cement, Impression Compound, Copper Bands, Carborundum Points, Broaches, Temporary Stopping, All Such Goods Being Used for Dental Purposes.
Claims use since June, 1929.

Ser. No. 294,746. THE SWARTZBAUGH MANUFACTURING CO., Toledo, Ohio. Filed Jan. 13, 1930.

CLEER-HED

For Electric Inhaler Device.
Claims use since Nov. 15, 1929.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 287,020. SIMONS BROTHERS, Charleston and Johns Island, S. C. Filed July 12, 1929.

THE VINEYARD BRAND

The words "The Vineyard Brand" are hereby withdrawn and disclaimed by applicants.
For Grape Juice.
Claims use since Feb. 15, 1929.

Ser. No. 295,665. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Ginger Ale, Sarsaparilla, Vanilla Soda, Lemon Soda, Raspberry Soda, Strawberry Soda, Cherry Soda, Pineapple Soda, Orangeade, Root Beer, Birch Beer, Lemon and Lime, Lime Juice, and Grape Juice.
Claims use since Oct. 26, 1926.

Ser. No. 295,704. WAUKESHA PURE SPRING WATER COMPANY, Mukwonago, Wis. Filed Feb. 6, 1930.

"HEC-O-LAX"

For Medicated Spring Water.
Claims use since Jan. 2, 1930.

Ser. No. 295,705. WAUKESHA PURE SPRING WATER COMPANY, Mukwonago, Wis. Filed Feb. 6, 1930.

"HECO"

For Spring Water in its Natural State, Carbonated, and Medicated.
Claims use since Jan. 2, 1930.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 251,409. NORTHLAND MILLING COMPANY, Minneapolis, Minn. Filed July 1, 1927.

NORTHLAND

For Wheat Flour.
Claims use since Apr. 2, 1901.

Ser. No. 277,057. DILLING & COMPANY, Indianapolis, Ind. Filed Dec. 21, 1928.

Dilling's Bridge Party

For Candy.
Claims use since Nov. 23, 1928.

Ser. No. 283,182. BENJAMIN DORMAN, Brooklyn, N. Y. Filed Apr. 29, 1929.



The figures shown are fanciful. Exclusive use of the word "Brand" is not claimed apart from the mark shown.
For Olive Oil.
Claims use since 1923.

Ser. No. 287,455. DE COURSEY CREAMERY COMPANY, Kansas City, Kans. Filed July 22, 1929.

CHIP-O-CHOC

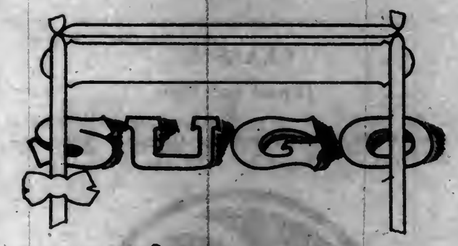
For Ice Cream.
Claims use since Aug. 19, 1924.

Ser. No. 287,925. HILLIARD'S GLASS HOUSE GOODIES, INC., Boston and West Roxbury, Mass. Filed July 31, 1929.

Glass House

For Chocolates, Hard Candies, and Bonbons.
Claims use since Feb. 4, 1925.

Ser. No. 290,715. MERCURIO BROS. SPAGHETTI MFG. CO., St. Louis, Mo. Filed Oct. 5, 1929.



For Alimentary Products—Namely, Macaroni, Spaghetti, and Noodles.
Claims use since about May, 1909.

Ser. No. 291,324. DOROTHY CRANE CHIDLOW, Fort Myers, Fla. Filed Oct. 21, 1929.

MINJOL

For Bread and Biscuits.
Claims use since Mar. 1, 1929.

Ser. No. 292,751. WALTER J. RICKEL, Chicago, Ill. Filed Nov. 22, 1920.

PEP STIX

For Materials to be Used in Place of Sugar for Beverages.
Claims use since Sept. 1, 1928.

Ser. No. 293,198. TEXAS COFFEE COMPANY, INCORPORATED, Beaumont, Tex. Filed Dec. 3, 1929.

TexJoy

For Coffee.
Claims use since Sept. 14, 1926.

Ser. No. 293,608. STROHMEYER & ARPE COMPANY, doing business as United Pure Food Co., New York, N. Y. Filed Dec. 12, 1929.

ANITA

For Canned Fish, Canned Vegetables, Olives in Bulk, and Antipasto.
Claims use since 1906.

Ser. No 293,622. MOLLIE R. HAND, Norwich, N. Y. Filed Dec. 13, 1929.

MOLLIE'S MUSTARD

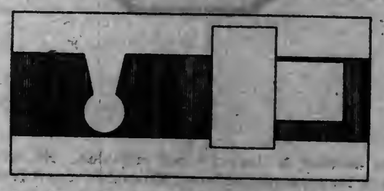
The word "Mustard" is disclaimed apart from the other features of the mark shown in the drawings.
For Prepared Mustard.
Claims use since Nov. 21, 1929.

Ser. No. 294,379. GEORGE ANDREWS, Winter Haven, Fla. Filed Jan. 4, 1930.

NEW ERA

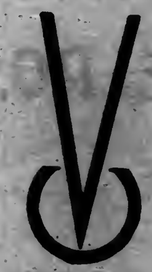
For Fresh Oranges and Grapefruit.
Claims use since Dec. 12, 1929.

Ser. No. 294,652. THE VAN CAMP PACKING COMPANY, INCORPORATED, Indianapolis, Ind. Filed Jan. 10, 1930.



The drawing is lined to represent the color red.
For Canned Foods—viz, Vegetables, Pureed Vegetables, and Soup.
Claims use since Nov. 1, 1929.

Ser. No. 294,653. THE VAN CAMP PACKING COMPANY, INCORPORATED, Indianapolis, Ind. Filed Jan. 10, 1930.



For Canned Foods and Canned Vegetable Juices—viz, Vegetables, Soup, and Tomato Juice.
Claims use since Nov. 1, 1929.

Ser. No. 294,654. THE VAN CAMP PACKING COMPANY, INCORPORATED, Indianapolis, Ind. Filed Jan. 10, 1930.

Tomato-Vites

The word "Tomato" is disclaimed except in the connection shown.
For Canned Tomato Juice.
Claims use since Nov. 1, 1929.

Ser. No. 294,963. EXCELSIOR MACARONI COMPANY, INC., Brooklyn, N. Y. Filed Jan. 20, 1930.

MAIZ-AL

For Cornstarch.
Claims use since Sept. 1, 1928.

Ser. No. 295,500. ANDY'S CHOCOLATE SHOPS, INC., Chicago, Ill. Filed Feb. 3, 1930.



For Candies.
Claims use since Jan. 1, 1921.

Ser. No. 295,539. PAUL SCHULZE BISCUIT CO., Chicago, Ill. Filed Feb. 3, 1930.

BRACKLE

For Crackerlike or Biscuitlike Food Products.
Claims use since Nov. 1, 1928.

Ser. No. 295,586. JAMES VAN DYK COMPANY, New York, N. Y. Filed Feb. 4, 1930.

MELROSE

For Butter and Eggs.
Claims use since June, 1922, on butter; since October, 1925, on eggs.

Ser. No. 295,587. JAMES VAN DYK COMPANY, New York, N. Y. Filed Feb. 4, 1930.

SanBo

For Coffee.
Claims use since November, 1917.

Ser. No. 295,680. KOHRS PACKING COMPANY, Iowa City, and Davenport, Iowa. Filed Feb. 6, 1930.

LITTLE FRIARS

For Pork Link Sausage.
Claims use since Sept. 1, 1929.

Ser. No. 295,696. SHELBY CANNING CO., Shelbyville, Ind. Filed Feb. 6, 1930.



For Canned Vegetables.
Claims use since Aug. 31, 1928.

Ser. No. 295,747. NORTHERN ILLINOIS CEREAL COMPANY, Lockport, Ill. Filed Feb. 7, 1930.

Little Joe



For Grits.
Claims use since Feb. 3, 1930.

CLASS 48

Malt Beverages and Liquors

Ser. No. 294,274. PABST CORPORATION, Milwaukee, Wis. Filed Dec. 31, 1929.



The drawing is lined for red and blue. No claim is made to the geographical term "Milwaukee" apart from the mark as shown.
For Cereal Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol.
Claims use since March, 1890.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 281,990. CRESCENT METAL WORKS, INC., Newark, N. J. Filed Apr. 8, 1929.



No claim is made to the words "Creators of Work of Art in Metal" apart from the mark as shown.
For Ornamental Articles Made of Molded Metal—Namely, Statuettes.
Claims use since Mar. 1, 1929.

Ser. No. 293,062. MOTOLOGUE ADVERTISING CORPORATION, New York, N. Y. Filed Nov. 29, 1929.

MOTOLOG

For Advertising Signs Which May be Used with or without Illumination.
Claims use since on or about January, 1928.

Ser. No. 294,240. PITTSBURGH WATERPROOF COMPANY, Pittsburgh, Pa. Filed Dec. 30, 1929.



No claim is made for the words "Brand, Trade," and "Mark," apart from the mark shown in the drawing.
For Tarpaulins.
Claims use since 1888.

Ser. No. 294,268. LEATHER FINISH FABRICS, INC., Newark, N. J. Filed Dec. 31, 1929.

RAYOLEA
The Rayon of Leather

For Leather Substitutes.
Claims use since Sept. 1, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 18, 1930

268,449. PRIMERS, SURFACERS, AND LACQUERS. VALENTINE & COMPANY, New York, N. Y.
Filed November 26, 1929. Serial No. 292,914. PUBLISHED JANUARY 7, 1930. Class 16.

268,450. WOMEN'S RAYON UNDERWEAR. BUTLER BROTHERS, Chicago, Ill.
Filed November 21, 1929. Serial No. 292,654. PUBLISHED JANUARY 7, 1930. Class 39.

268,451. LADIES' COATS. WILTSHIRE GARMENT CO., INC., Watertown, N. Y.
Filed November 18, 1929. Serial No. 292,380. PUBLISHED JANUARY 7, 1930. Class 39.

268,452. HOSIERY. RUFUS W. SCOTT COMPANY, New York, N. Y.
Filed November 9, 1929. Serial No. 292,230. PUBLISHED DECEMBER 31, 1929. Class 39.

268,453. EAR PHONES FOR THE USE OF PERSONS WITH DEFECTIVE HEARING. HUGO LIEBER, New York, N. Y.
Filed November 9, 1929. Serial No. 292,216. PUBLISHED DECEMBER 31, 1929. Class 44.

268,454. BOYS' HOSIERY. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed November 9, 1929. Serial No. 292,210. PUBLISHED DECEMBER 31, 1929. Class 39.

268,455. HOSIERY. RUFUS W. SCOTT COMPANY, New York, N. Y.
Filed November 7, 1929. Serial No. 292,126. PUBLISHED DECEMBER 31, 1929. Class 39.

268,456. BATHING SUITS. E. L. GREENE KNITTING MILLS, INC., Bath, N. Y.
Filed November 7, 1929. Serial No. 292,107. PUBLISHED DECEMBER 31, 1929. Class 39.

268,457. MEN'S HATS AND CAPS. BOWMAN HAT COMPANY, Knoxville, Tenn.
Filed November 7, 1929. Serial No. 292,093. PUBLISHED DECEMBER 31, 1929. Class 39.

268,458. MEN'S UNDERWEAR AND MEN'S PAJAMAS. R. F. POOL, JR., MANUFACTURING CO., McKinney, Tex.
Filed November 5, 1929. Serial No. 292,046. PUBLISHED DECEMBER 31, 1929. Class 39.

268,459. CORSETS AND BRASSIÈRES. BERLEI LIMITED, Sydney, New South Wales, Australia.
Filed November 4, 1929. Serial No. 291,959. PUBLISHED DECEMBER 31, 1929. Class 39.

268,460. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR, INCLUDING SPORT SHIRTS, UNDERSHIRTS, UNION SUITS, DRAWERS, TIGHTS, TRUNKS, BLOOMERS, AND ON INFANTS' SHIRTS AND BANDS. WINSHIP, BOIT & CO., Wakefield, Mass.
Filed November 2, 1929. Serial No. 291,946. PUBLISHED DECEMBER 31, 1929. Class 39.

268,461. PAINTS, PAINT ENAMELS, STAINS, AND VARNISHES. F. O. PIERCE COMPANY, New York, N. Y.
Filed October 29, 1929. Serial No. 291,736. PUBLISHED JANUARY 7, 1930. Class 16.

268,462. NEGLIGEE SHIRTS, PAJAMAS, AND UNDERWEAR—NAMELY, UNDERSHIRTS AND UNDERDRAWERS. THE MANHATTAN SHIRT CO., New York, N. Y.
Filed October 24, 1929. Serial No. 291,517. PUBLISHED DECEMBER 31, 1929. Class 39.

268,463. SILK PIECE GOODS. HOLLAND & SON, New York, N. Y.
Filed November 23, 1929. Serial No. 292,806. PUBLISHED DECEMBER 31, 1929. Class 42.

268,464. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed November 22, 1929. Serial No. 292,711. PUBLISHED DECEMBER 31, 1929. Class 42.

268,465. BED SHEETS, PILLOWCASES, SHEETINGS AND MUSLINS IN THE PIECE, BOTH BLEACHED AND BROWN. INTERSTATE DEPARTMENT STORES, INC., New York, N. Y.
Filed November 19, 1929. Serial No. 292,581. PUBLISHED JANUARY 7, 1930. Class 42.

268,466. WOOLEN PIECE GOODS AND WOOLEN PIECE GOODS ESPECIALLY ADAPTED TO BE USED FOR LADIES' COATS. MADISON WOOLEN COMPANY, Madison, Me.
Filed November 16, 1929. Serial No. 292,501. PUBLISHED DECEMBER 31, 1929. Class 42.

268,467. WOOLEN PIECE GOODS AND WOOLEN PIECE GOODS ESPECIALLY ADAPTED TO BE USED FOR LADIES' COATS. MADISON WOOLEN COMPANY, Madison, Me.
Filed November 16, 1929. Serial No. 292,502. PUBLISHED DECEMBER 31, 1929. Class 42.

268,468. WOOLEN CLOAKING FABRIC. SANFORD MILLS, Sanford, Me.
Filed November 15, 1929. Serial No. 292,464. PUBLISHED JANUARY 7, 1930. Class 42.

268,469. LINGERIE CLOTH IN THE PIECE. ALBERT GODDE, BEDIN, INC., New York, N. Y.
Filed November 7, 1929. Serial No. 292,104. PUBLISHED JANUARY 7, 1930. Class 42.

268,470. SALAD DRESSING. THE RHEINSTROM BROS. COMPANY, Cincinnati, Ohio.
Filed November 11, 1929. Serial No. 292,288. PUBLISHED DECEMBER 31, 1929. Class 46.

268,471. MALT SYRUP. MAX EPSTEIN, doing business as Western Malt Products Co., College Point, N. Y.
Filed November 2, 1929. Serial No. 291,915. PUBLISHED JANUARY 7, 1930. Class 46.

268,472. MACARONI. LINCOLN MACARONI MFG. COMPANY, Brooklyn, N. Y.
Filed November 4, 1929. Serial No. 291,989. PUBLISHED DECEMBER 31, 1929. Class 46.

268,473. HONEY. GEORGE MORRISON, Poughkeepsie, N. Y.
Filed October 25, 1929. Serial No. 291,572. PUBLISHED DECEMBER 24, 1929. Class 46.

268,474. HONEY. E. W. PEIRCE, doing business as E. W. Peirce Co., Zanesville, Ohio.
Filed October 26, 1929. Serial No. 291,633. PUBLISHED DECEMBER 24, 1929. Class 46.

268,475. SWEET PICKLE RELISH. THE BEST FOODS, INC., New York, N. Y.
Filed October 24, 1929. Serial No. 291,493. PUBLISHED JANUARY 7, 1930. Class 46.

268,476. ICING BASE. THE BEST FOODS, INC., New York, N. Y.
Filed October 24, 1929. Serial No. 291,492. PUBLISHED JANUARY 7, 1930. Class 46.

268,477. MALT SYRUP. L. A. PODESTA, doing business as Chicago Specialty Co., San Francisco, Calif.
Filed October 23, 1929. Serial No. 291,472. PUBLISHED DECEMBER 31, 1929. Class 46.

268,478. MAYONNAISE DRESSING, SANDWICH SPREAD, ETC. SHERWOOD P. SNYDER, doing business as Snyder's Community Kitchen Co., Dayton, Ohio.
Filed October 11, 1929. Serial No. 290,977. PUBLISHED DECEMBER 24, 1929. Class 46.

268,479. DESSERT POWDER. ALFRED BIRD & SONS, LIMITED, Birmingham, England.
Filed October 8, 1929. Serial No. 290,539. PUBLISHED NOVEMBER 26, 1929. Class 46.

268,480. EGGS, HAM, BACON, ETC. H. L. HANDY COMPANY, Springfield, Mass.
Filed October 2, 1929. Serial No. 290,511. PUBLISHED DECEMBER 24, 1929. Class 46.

268,481. MAYONNAISE. EDWARD E. PRAY, doing business as Ce-Re-Ol Pure Food Products Co., Los Angeles, Calif.
Filed September 30, 1929. Serial No. 290,425. PUBLISHED JANUARY 7, 1930. Class 46.

268,482. WHITE MALT-SUGAR POWDER. SCHREIBER PRODUCTS CORPORATION, Buffalo, N. Y.
Filed September 21, 1929. Serial No. 290,091. PUBLISHED JANUARY 7, 1930. Class 46.

268,483. COLLARS, DRESS AND NEGLIGEE SHIRTS, PAJAMAS, AND KNITTED AND TEXTILE UNDERWEAR FOR MEN AND BOYS. THE ENRO SHIRT COMPANY, Louisville, Ky.
Filed October 24, 1929. Serial No. 291,503. PUBLISHED JANUARY 7, 1930. Class 39.

268,484. CERTAIN NAMED PAINT PRODUCTS. THE KOHLER-MCLISTER PAINT COMPANY, Denver, Colo.
Filed October 22, 1929. Serial No. 291,394. PUBLISHED JANUARY 7, 1930. Class 16.

268,485. MEN'S AND WOMEN'S FUR-FELT HATS, COMMONLY CALLED FELT HATS. G. W. ALEXANDER & CO., INC., Reading, Pa.
Filed May 29, 1929. Serial No. 284,767. PUBLISHED DECEMBER 31, 1929. Class 39.

268,486. RIFLE CARTRIDGES. WESTERN CARTRIDGE COMPANY, East Alton, Ill.
Filed May 27, 1929. Serial No. 284,709. PUBLISHED DECEMBER 31, 1929. Class 9.

268,487. RADIO RECEIVING SETS AND PARTS THEREOF. THE CABLE COMPANY, Chicago, Ill.
Filed May 20, 1929. Serial No. 284,322. PUBLISHED DECEMBER 31, 1929. Class 21.

268,488. METAL MEDICINE AND KITCHEN CABINETS, HOSPITAL CABINETS, MIRROR FRAMES, RADIATOR ENCLOSURES, IRONING-BOARD CABINETS, AND PACKAGE-RECEIVER CABINETS. EXCEL METAL CABINET COMPANY, INCORPORATED, Falconer, N. Y.
Filed May 18, 1929. Serial No. 284,225. PUBLISHED JANUARY 7, 1930. Class 32.

268,489. FRESH CELERY. ROBERT E. BALDWIN, Sanford, Fla.
Filed May 11, 1929. Serial No. 283,841. PUBLISHED DECEMBER 31, 1929. Class 46.

268,490. LADIES', MEN'S, AND CHILDREN'S HOSIERY AND KNITTED AND TEXTILE UNDERWEAR IN ONE AND TWO PIECE GARMENTS. THE PRIMPIT TEXTILE COMPANY, INC., Cincinnati, Ohio.
Filed November 1, 1929. Serial No. 291,888. PUBLISHED DECEMBER 31, 1929. Class 39.

268,491. SOCKS. PILOT HOSIERY MILLS, INCORPORATED, Lexington, N. C.
Filed October 31, 1929. Serial No. 291,838. PUBLISHED DECEMBER 31, 1929. Class 39.

268,492. WOMEN'S HATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 30, 1929. Serial No. 291,795. PUBLISHED DECEMBER 31, 1929. Class 39.

268,493. CERTAIN NAMED WEARING APPAREL. THE JAEGER COMPANY, INC., New York, N. Y.
Filed October 30, 1929. Serial No. 291,770. PUBLISHED DECEMBER 31, 1929. Class 39.

268,494. CEREAL PRODUCT IN THE FORM OF A BREAKFAST FOOD. PURITY OATS COMPANY, Keokuk, Iowa.
Filed November 25, 1929. Serial No. 292,902. PUBLISHED JANUARY 7, 1930. Class 46.

268,495. FRESH PRICKLY PEARS. PHILLIP LO BUE, San Jose, Calif.
Filed October 19, 1929. Serial No. 291,280. PUBLISHED JANUARY 7, 1930. Class 46.

268,496. FRESH POTATOES. T. J. REARDON, INC., Charlestown, Mass.
Filed October 17, 1929. Serial No. 291,177. PUBLISHED JANUARY 7, 1930. Class 46.

268,497. FRESH GRAPES AND FRESH VEGETABLES. HY E. JACOB, Fresno, Calif.
Filed October 1, 1929. Serial No. 290,466. PUBLISHED JANUARY 7, 1930. Class 46.

268,498. CANNED FISH. QUONG SANG CHONG CO., San Francisco, Calif.
Filed October 1, 1929. Serial No. 290,477. PUBLISHED JANUARY 7, 1930. Class 46.

268,499. COFFEE. FRANK C. WEBER & COMPANY, Chicago, Ill.
Filed September 18, 1929. Serial No. 289,951. PUBLISHED JANUARY 7, 1930. Class 46.

268,500. CANDY. HEIT-MILLER-LAU COMPANY, Fort Wayne, Ind.
Filed September 18, 1929. Serial No. 289,926. PUBLISHED JANUARY 7, 1930. Class 46.

268,501. COFFEE AND CHICORY COMPOUND. WM. B. REILY & COMPANY, INCORPORATED, New Orleans, La.
Filed August 19, 1929. Serial No. 288,726. PUBLISHED JANUARY 7, 1930. Class 46.

268,502. COCOA, CHOCOLATE, TOFFEES, AND A SUGAR CANDY WITH COFFEE FLAVOR CALLED "HOPJES." NAAMLOOZE VENNOOTSCHAP HELM CACAOEN CHOCOLADEFABRIEK, Helmond, Netherlands.
Filed August 9, 1929. Serial No. 288,347. PUBLISHED JANUARY 7, 1930. Class 46.

268,503. CANDY. THE CRACKER JACK CO., Chicago, Ill.
Filed July 26, 1929. Serial No. 287,696. PUBLISHED JANUARY 7, 1930. Class 46.

268,504. FOOD PRODUCTS—NAMELY, CANNED ANCHOVIES. B. WESTERGAARD & Co., Brooklyn, N. Y.
Filed July 22, 1929. Serial No. 287,514. PUBLISHED JANUARY 7, 1930. Class 46.

268,505. CREOLE CANNED GUMBO SOUP. EUCLID B. SMITH, New Orleans, La.
Filed July 20, 1929. Serial No. 287,480. PUBLISHED JANUARY 7, 1930. Class 46.

268,506. RAW DATES. LEO V. WALSH, doing business as California Date Merchants, Los Angeles, Calif.
Filed July 15, 1929. Serial No. 287,166. PUBLISHED JANUARY 7, 1930. Class 46.

268,507. CANNED FISH. CUSTOM HOUSE PACKING CORPORATION, Monterey, Calif.
Filed July 13, 1929. Serial No. 287,051. PUBLISHED JANUARY 7, 1930. Class 46.

268,508. LEATHER SHOES. BROCKTON SHOE MANUFACTURING COMPANY, INC., Holbrook, Mass.
Filed May 23, 1927. Serial No. 249,404. PUBLISHED FEBRUARY 28, 1928. Class 39.

268,509. APPARATUS AND PARTS THEREOF FOR THE SYNCHRONOUS PRODUCTION AND REPRODUCTION OF TALKING MOTION PICTURES OR OTHER SOUND AND LIGHT EFFECTS. POWERS CINEPHONE EQUIPMENT CORPORATION, New York, N. Y.
Filed July 31, 1929. Serial No. 287,985. PUBLISHED JANUARY 7, 1930. Class 26.

268,510. TEA. JOSEPH TETLEY & CO., INC., New York, N. Y.
Filed September 10, 1929. Serial No. 289,598. PUBLISHED NOVEMBER 5, 1929. Class 46.

268,511. TEA. JOSEPH TETLEY & CO., INC., New York, N. Y.
Filed September 10, 1929. Serial No. 289,597. PUBLISHED NOVEMBER 5, 1929. Class 46.

268,512. COTTON, LINEN, ARTIFICIAL AND NATURAL SILK GOODS IN PIECES. MARVLO MILLS, INC., New York, N. Y.
Filed July 24, 1929. Serial No. 287,582. PUBLISHED JANUARY 7, 1930. Class 42.

268,513. FRESH APPLES. C. H. DE MONTEMAR, Phoenix, Ariz.
Filed July 13, 1929. Serial No. 287,054. PUBLISHED JANUARY 7, 1930. Class 46.

268,514. SPRING WATER. SARATOGA-CARLSBAD COMPANY, Saratoga Springs, N. Y.
Filed July 3, 1929. Serial No. 286,545. PUBLISHED DECEMBER 31, 1929. Class 45.

268,515. AWLS, HAMMERS, PINCERS, SCREW DRIVERS, AND KNIVES MADE OF BASE METAL. UNITED SHOE MACHINERY CORPORATION, Boston, Mass.
Filed June 29, 1929. Serial No. 286,397. PUBLISHED JANUARY 7, 1930. Class 23.

268,516. VEGETABLE-FIBER YARNS AND THREADS. THE ENGLISH TEXTILOSE MANUFACTURING COMPANY LIMITED, Manchester, England.
Filed June 24, 1929. Serial No. 286,042. PUBLISHED DECEMBER 31, 1929. Class 43.

268,517. OPTICAL GOODS FOR USE IN HUMAN VISION—NAMELY, SPECTACLES AND EYEGLASSES. HENRY W. VON UNRUH, doing business as Von's, Cincinnati, Ohio.
Filed June 21, 1929. Serial No. 285,954. PUBLISHED JANUARY 7, 1930. Class 26.

268,518. SHEET PACKINGS, JOINTINGS IN THE NATURE OF PACKINGS, FLEXIBLE COUPLINGS, WASHERS, FAN BELTS, MACHINE BELTS, AND GASKETS, ALL MADE OF LEATHER MANUFACTURED FROM SCRAPS OF REAL LEATHER. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,834. PUBLISHED DECEMBER 31, 1929. Class 35.

268,519. SHEET PACKINGS, JOINTINGS IN THE NATURE OF PACKING, FLEXIBLE COUPLINGS, WASHERS, FAN BELTS, MACHINE BELTS, AND GASKETS, ALL MADE OF LEATHER MANUFACTURED FROM SCRAPS OF REAL LEATHER. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,833. PUBLISHED DECEMBER 31, 1929. Class 35.

268,520. CARBURETORS. ARTHUR E. DOBBS, Miami, Fla.
Filed June 17, 1929. Serial No. 285,710. PUBLISHED JANUARY 7, 1930. Class 23.

268,521. GIN MADE FROM JUNIPER BERRIES. DR. HERBERT SCHLICHTE, doing business as H. W. Schlichte, Steinhagen, Germany.
Filed June 8, 1929. Serial No. 285,303. PUBLISHED JANUARY 7, 1930. Class 49.

268,522. PREPARATION FOR TREATING HAIR AND SCALP. ISA DANIELS, Kansas City, Mo.
Filed November 11, 1929. Serial No. 292,257. PUBLISHED DECEMBER 24, 1929. Class 6.

268,523. HAIRDRESSING. THEO. A. KOCHS COMPANY, Chicago, Ill.
Filed November 9, 1929. Serial No. 292,214. PUBLISHED DECEMBER 24, 1929. Class 6.

268,524. NECKLACES AND BRACELETS. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed October 10, 1929. Serial No. 290,901. PUBLISHED DECEMBER 31, 1929. Class 28.

268,525. LUBRICATING COMPOUNDS AND OILS. WM. JAMES CRAFT, doing business as Craftoil Company, Glendale, Calif.
Filed October 7, 1929. Serial No. 290,745. PUBLISHED DECEMBER 31, 1929. Class 15.

268,526. UNITARY DEVICES FOR TRANSMITTING AND DISPLAYING MESSAGES, CHARACTERS, VIEWS, ETC. BAIRD TELEVISION DEVELOPMENT COMPANY LIMITED, London, England.
Filed October 7, 1929. Serial No. 290,737. PUBLISHED JANUARY 7, 1930. Class 21.

268,527. ELECTRICAL DEVICES USED IN THE KITCHEN FOR BEATING, WHIPPING, GRATING, POLISHING GRINDING, AND MIXING. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 3, 1929. Serial No. 290,611. PUBLISHED DECEMBER 31, 1929. Class 21.

268,528. ELECTRICAL ADVERTISING DISPLAY CABINETS AND ELECTRICAL ADVERTISING MATCH AND TOOTHPICK DISPENSERS. JAMES D. HENDERSON, Chicago, Ill.
Filed October 3, 1929. Serial No. 290,572. PUBLISHED DECEMBER 31, 1929. Class 21.

268,529. BRACELETS, BROOCHES, PENDANTS, ETC. L. BAMBERGER & CO., Newark, N. J.
Filed September 27, 1929. Serial No. 290,300. PUBLISHED JANUARY 7, 1930. Class 28.

268,530. LUBRICANT FOR INTERNAL-COMBUSTION ENGINES. JOHN BALCH, doing business as Nu-Car-Oil Sales Co., Chicago, Ill.
Filed September 24, 1929. Serial No. 290,173. PUBLISHED JANUARY 7, 1930. Class 15.

268,531. ELECTRIC-LIGHTING FIXTURES AND ELECTRIC-LIGHTING-FIXTURE UNITS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed September 23, 1929. Serial No. 290,162. PUBLISHED JANUARY 7, 1930. Class 21.

268,532. LUBRICATING OILS AND GREASES AND MOTOR-FUEL OILS. STANAVO SPECIFICATION BOARD, New York, N. Y., assignor to Stanavo Specification Board, Inc., New York, N. Y., a Corporation of Delaware.
Filed September 19, 1929. Serial No. 289,996. PUBLISHED DECEMBER 31, 1929. Class 15.

268,533. RADIO RECEIVING SETS. THE HADLEY COMPANY, Charleston, W. Va.
Filed September 9, 1929. Serial No. 289,562. PUBLISHED JANUARY 7, 1930. Class 21.

268,534. THERMIONIC VACUUM TUBES, VACUUM-TUBE VALVES AND RECTIFIERS, PHOTO-ELECTRIC CELLS, AND TELEVISION TUBES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed August 22, 1929. Serial No. 288,865. PUBLISHED JANUARY 7, 1930. Class 21.

268,535. ELECTRIC TOASTERS, ELECTRIC HEATING PADS, ETC. KNAPP-MONARCH COMPANY, St. Louis, Mo., and Webster City, Iowa.
Filed August 20, 1929. Serial No. 288,748. PUBLISHED DECEMBER 31, 1929. Class 21.

268,536. SYNTHETIC STONES FOR JEWELERS' USE. S. NATHAN & CO. INC., New York, N. Y.
Filed August 17, 1929. Serial No. 288,660. PUBLISHED JANUARY 7, 1930. Class 28.

268,537. TALKING MACHINES AND PARTS THEREOF. PAUL JARAS, La Chaux de Fonds, Switzerland.
Filed August 16, 1929. Serial No. 288,617. PUBLISHED JANUARY 7, 1930. Class 36.

268,538. ELECTRIC FANS, ELECTRIC REFLECTING HEATERS, AND ELECTRIC HEATERS COMPRISING A COMBINED RESISTANCE ELEMENT AND FAN. THE CINCINNATI VICTOR COMPANY, Cincinnati, Ohio.
Filed August 7, 1929. Serial No. 288,221. PUBLISHED DECEMBER 31, 1929. Class 21.

268,539. LUBRICATING OILS AND GREASES AND MOTOR-FUEL OILS. STANAVO SPECIFICATION BOARD, New York, N. Y., assignor to Stanavo Specification Board, Inc., New York, N. Y., a Corporation of Delaware.
Filed July 22, 1929. Serial No. 287,502. PUBLISHED DECEMBER 31, 1929. Class 15.

268,540. ELECTRIC VACUUM CLEANERS AND PARTS THEREOF. SIEMENS-SCHUCKERTWERKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed June 14, 1929. Serial No. 285,594. PUBLISHED JANUARY 7, 1930. Class 21.

268,541. COMPOUND USED AS A VULCANIZATION ACCELERATOR IN THE CURING OF RUBBER ARTICLES. CHARLES P. HALL, doing business as The C. P. Hall Company, Akron, Ohio.
Filed November 13, 1929. Serial No. 292,355. PUBLISHED DECEMBER 31, 1929. Class 6.

268,542. PREPARATIONS FOR THE PREVENTION AND TREATMENT OF COLDS AND CERTAIN IRRITATIONS OF THE RESPIRATORY, INTESTINAL, AND URINARY SYSTEMS. LEONARD J. PICCOLI, doing business as Leonard Research Laboratories, New York, N. Y.
Filed November 11, 1929. Serial No. 292,284. PUBLISHED DECEMBER 24, 1929. Class 6.

268,543. MEDICINAL PREPARATION DESIGNED FOR DYSFUNCTIONS OF THE CORPUS LUTEUM. DIGESTIVE FERMENTS COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,260. PUBLISHED DECEMBER 24, 1929. Class 6.

268,544. MEDICINAL PREPARATION DESIGNED FOR DYSFUNCTIONS OF THE WHOLE OVARIAN GLAND. DIGESTIVE FERMENTS COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,259. PUBLISHED DECEMBER 24, 1929. Class 6.

268,545. MEDICINAL PREPARATION DESIGNED FOR DYSFUNCTIONS OF THE ORCHIC GLAND. DIGESTIVE FERMENTS COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,258. PUBLISHED DECEMBER 24, 1929. Class 6.

268,546. CANDLES. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y.
Filed November 13, 1929. Serial No. 292,379. PUBLISHED JANUARY 7, 1930. Class 15.

268,547. LUBRICATING OILS. SINCLAIR REFINING COMPANY, New York, N. Y.
Filed November 13, 1929. Serial No. 292,374. PUBLISHED JANUARY 7, 1930. Class 15.

268,548. PETROLEUM AND PRODUCTS OF PETROLEUM, MINERAL WAX, CANDLES, ETC. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed November 7, 1929. Serial No. 292,128. PUBLISHED JANUARY 7, 1930. Class 15.

268,549. GASOLINE, LUBRICATING GREASES, LUBRICATING OILS. SUNSET PACIFIC OIL COMPANY, Los Angeles, Calif.
Filed November 5, 1929. Serial No. 292,057. PUBLISHED JANUARY 7, 1930. Class 15.

268,550. ELECTRICAL INSULATING COMPOUND. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed November 4, 1929. Serial No. 292,022. PUBLISHED JANUARY 7, 1930. Class 21.

268,551. SILVER-PLATED FLAT TABLEWARE. INTERNATIONAL SILVER COMPANY, Meriden and Bridgeport, Conn.
Filed November 4, 1929. Serial No. 291,984. PUBLISHED JANUARY 7, 1930. Class 28.

268,552. MOUTH HARMONICAS. M. HOHNER, INC., New York, N. Y.
Filed October 31, 1929. Serial No. 291,830. PUBLISHED DECEMBER 31, 1929. Class 36.

268,553. NECKLACES, BRACELETS, EARRINGS, ETC. COHN & ROSENBERGER, INC., New York, N. Y.
Filed October 31, 1929. Serial No. 291,817. PUBLISHED DECEMBER 31, 1929. Class 28.

268,554. NECKLACES, BRACELETS, EARRINGS, ETC. COHN & ROSENBERGER, INC., New York, N. Y.
Filed October 31, 1929. Serial No. 291,816. PUBLISHED DECEMBER 31, 1929. Class 28.

268,555. LUBRICANTS FOR GEARS, BEARINGS, WORM DRIVES, CHAIN DRIVES, AND TRANSMISSIONS AND LUBRICATING OILS AND GREASES. THE METAL LUBRICANT COMPANY, Columbus, Ohio.
Filed October 29, 1929. Serial No. 291,733. PUBLISHED DECEMBER 31, 1929. Class 15.

268,556. GASOLINE AND LUBRICATING OIL AND GREASE. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 29, 1929. Serial No. 291,720. PUBLISHED JANUARY 7, 1930. Class 15.

268,557. ELECTRIC BATTERIES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed October 28, 1929. Serial No. 291,687. PUBLISHED JANUARY 7, 1930. Class 21.

268,558. ELECTRIC WARM-AIR DRIER FOR THE HANDS. EDNA CLAIRE DAVIS, doing business as Paxette, Brookline, Mass.
Filed October 28, 1929. Serial No. 291,656. PUBLISHED JANUARY 7, 1930. Class 21.

268,559. RESISTANCE WIRE, RODS, AND STRANDS, RIBBON, STRIPS, AND SHEETS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed October 26, 1929. Serial No. 291,611. PUBLISHED DECEMBER 31, 1929. Class 21.

268,560. RESISTANCE WIRE, RODS, AND STRANDS. RIBBON, STRIPS, AND SHEETS. DRIVER-HARRIS COMPANY, Harrison, N. J.
Filed October 26, 1929. Serial No. 291,610. PUBLISHED DECEMBER 31, 1929. Class 21.

268,561. KEYBOARD MUSICAL INSTRUMENTS COMPRISING ORGANS AND PIANOS, WHETHER PLAYABLE BY HAND OR MUSIC ROLL, AND MUSIC-ROLL MAGAZINES FOR SAID INSTRUMENTS PERMITTING THE SELECTIVE PLAYING OF ANY MUSIC ROLL IN THE MAGAZINE. THE AEOLIAN COMPANY, Meriden, Conn., and New York, N. Y.
Filed October 25, 1929. Serial No. 291,542. PUBLISHED JANUARY 7, 1930. Class 36.

268,562. SPARK PLUGS. WARNER D. HINTON, Oakland, Ky.
Filed October 22, 1929. Serial No. 291,389. PUBLISHED DECEMBER 31, 1929. Class 21.

268,563. GASOLINE, KEROSENE, GREASES, FUEL OILS, AND LUBRICATING OIL. WESTCHESTER COUNTY AUTOMOTIVE SERVICE ASSOCIATION, INC., Yonkers, N. Y.
Filed October 21, 1929. Serial No. 291,375. PUBLISHED DECEMBER 31, 1929. Class 15.

268,564. RADIO RECEIVING SETS, LOUD-SPEAKERS, TRANSFORMERS, CHOKE COILS, AND POWER PACKS. TRANSFORMER CORPORATION OF AMERICA, Chicago, Ill.
Filed October 21, 1929. Serial No. 291,366. PUBLISHED JANUARY 7, 1930. Class 21.

268,565. GASOLINE. THE HEVIS OIL COMPANY, Cleveland, Ohio.
Filed October 17, 1929. Serial No. 291,162. PUBLISHED JANUARY 7, 1930. Class 15.

268,566. DOUGHNUTS. THE CREAM FRIED CAKE CO., Brighton, Mass.
Filed November 23, 1929. Serial No. 292,795. PUBLISHED JANUARY 7, 1930. Class 46.

268,567. DEVIL'S-FOOD CAKE MIXTURE. BEAR-STEWART CO., Chicago, Ill.
Filed November 23, 1929. Serial No. 292,789. PUBLISHED JANUARY 7, 1930. Class 46.

268,568. WATCHES. EDWARD GOLDSTEIN, doing business as Baguette Watch Company, New York, N. Y.
Filed November 9, 1929. Serial No. 292,207. PUBLISHED DECEMBER 31, 1929. Class 27.

268,569. ADHESIVE RUBBER CEMENT. THE HOLTITE MFG. CO., Baltimore, Md.
Filed November 8, 1929. Serial No. 292,168. PUBLISHED JANUARY 7, 1930. Class 5.

268,570. ADHESIVE RUBBER CEMENT. THE HOLTITE MFG. CO., Baltimore, Md.
Filed November 8, 1929. Serial No. 292,167. PUBLISHED JANUARY 7, 1930. Class 5.

268,571. ADHESIVE RUBBER CEMENT. THE HOLTITE MFG. CO., Baltimore, Md.
Filed November 8, 1929. Serial No. 292,166. PUBLISHED JANUARY 7, 1930. Class 5.

268,572. CIGARS. C. FLOYD, Tampa, Fla.
Filed November 8, 1929. Serial No. 292,159. PUBLISHED DECEMBER 31, 1929. Class 17.

268,573. CIGARS. C. FLOYD, Tampa, Fla.
Filed November 8, 1929. Serial No. 292,160. PUBLISHED DECEMBER 31, 1929. Class 17.

268,574. FERTILIZER. EASTERN COTTON OIL COMPANY, Norfolk, Va.
Filed November 8, 1929. Serial No. 292,157. PUBLISHED DECEMBER 31, 1929. Class 10.

268,575. TOOTHBRUSHES AND SHAVING BRUSHES. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,135. PUBLISHED DECEMBER 31, 1929. Class 29.

268,576. CHEESE MADE IN SWITZERLAND. SWITZERLAND CHEESE ASSOCIATION, INC., New York, N. Y.
Filed November 7, 1929. Serial No. 292,130. PUBLISHED JANUARY 7, 1930. Class 46.

268,577. BREAD. HERMAN HECHT, doing business as Hecht's Bakery, Bristol, Tenn.
Filed November 7, 1929. Serial No. 292,108. PUBLISHED DECEMBER 31, 1929. Class 46.

268,578. FERTILIZERS. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y.
Filed November 7, 1929. Serial No. 292,110. PUBLISHED DECEMBER 31, 1929. Class 10.

268,579. INK PASTE. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed November 7, 1929. Serial No. 292,087. PUBLISHED DECEMBER 31, 1929. Class 11.

268,580. TEXTILE RUGS AND CARPETS. A. & M. KARAGHEUSIAN, INC., New York, N. Y.
Filed November 25, 1929. Serial No. 292,880. PUBLISHED JANUARY 7, 1930. Class 42.

268,581. TEXTILE RUGS AND CARPETS. A. & M. KARAGHEUSIAN, INC., New York, N. Y.
Filed November 25, 1929. Serial No. 292,879. PUBLISHED JANUARY 7, 1930. Class 42.

268,582. PEANUT BRITTLE. TOM HUSTON PEANUT COMPANY, Columbus, Ga.
Filed November 25, 1929. Serial No. 292,878. PUBLISHED JANUARY 7, 1930. Class 46.

268,583. FRESH CITRUS FRUITS. HOMELAND CITRUS GROWERS ASSOCIATION, Homeland, Fla.
Filed November 22, 1929. Serial No. 292,728. PUBLISHED JANUARY 7, 1930. Class 46.

268,584. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed November 22, 1929. Serial No. 292,716. PUBLISHED JANUARY 7, 1930. Class 42.

268,585. PERFUME, TOILET WATER, FACE POWDER, ETC. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,945. PUBLISHED JANUARY 7, 1930. Class 6.

268,586. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, DUSTING POWDER, SACHET, COLD CREAMS, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS, AND VEGETAL. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,939. PUBLISHED JANUARY 7, 1930. Class 6.

268,587. PERFUMES, TOILET WATER, FACE POWDER, ETC. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,937. PUBLISHED JANUARY 7, 1930. Class 6.

268,588. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, DUSTING POWDER, SACHET, COLD CREAMS, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS, AND VEGETAL. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,936. PUBLISHED JANUARY 7, 1930. Class 6.

268,589. PERFUMES, TOILET WATERS, FACE POWDERS, ETC. CHERAMY, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,924. PUBLISHED JANUARY 7, 1930. Class 6.

268,590. PREPARATION FOR USE IN THE TREATMENT OF CERTAIN DISEASES OF THE HEART. THE HARROWER LABORATORY, INC., Glendale, Calif.
Filed November 25, 1929. Serial No. 292,873. PUBLISHED JANUARY 7, 1930. Class 6.

268,591. MEDICINAL OINTMENT AND LIQUID FOR THE TREATMENT OF ECZEMA AND OTHER FORMS OF SKIN TROUBLE. CONLEY OINTMENT CORPORATION, Muncie, Ind.
Filed November 25, 1929. Serial No. 292,867. PUBLISHED JANUARY 7, 1930. Class 6.

268,592. GENERAL MEDICINAL TONIC. THE SARGON LABORATORIES, INC., doing business as The Aphrodol Laboratories, Dayton, Ohio.
Filed November 23, 1929. Serial No. 292,828. PUBLISHED JANUARY 7, 1930. Class 6.

268,593. CARMINATIVE-ANTACID CORRECTIVE FOR STOMACH DISTRESS. THE A. H. LEWIS MEDICINE CO., St. Louis, Mo.
Filed November 21, 1929. Serial No. 292,675. PUBLISHED DECEMBER 31, 1929. Class 6.

268,594. CHEMICAL PREPARATION. AMERICAN MINING & CHEMICAL CO., INC., Shreveport, La.
Filed November 21, 1929. Serial No. 292,647. PUBLISHED JANUARY 7, 1930. Class 6.

268,595. CAPSULES FOR THE RELIEF OF HEADACHES AND COLDS. JAY G. HOBSON & CO. INC., Chillicothe, Ohio.
Filed November 18, 1929. Serial No. 292,532. PUBLISHED DECEMBER 31, 1929. Class 6.

268,596. A PREPARATION OF CHEMICALLY-PURE TETRACHLORETHYLENE TOGETHER WITH A SPECIALLY-PREPARED EFFECTIVE TÆNIACIDE IN THE FORM OF A LIQUID IN SOLUBLE GELATIN CAPSULES FOR THE TREATMENT OF ROUNDWORMS AND TAPEWORMS IN POULTRY. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed November 16, 1929. Serial No. 292,507. PUBLISHED DECEMBER 31, 1929. Class 6.

268,597. MINERAL OIL FOR CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PURPOSES ONLY. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed November 15, 1929. Serial No. 292,466. PUBLISHED JANUARY 7, 1930. Class 6.

268,598. INSECTICIDES, DEODORANTS, AND DISINFECTANTS. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed November 15, 1929. Serial No. 292,465. PUBLISHED JANUARY 7, 1930. Class 6.

268,599. AMELIORATIVE FOR RED AND YELLOW SKIN, SORES, AND PERSPIRING FEET. POLIDORO LATTANZIO, Astoria, N. Y.
Filed November 14, 1929. Serial No. 292,405. PUBLISHED DECEMBER 31, 1929. Class 6.

268,600. DENTAL CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,137. PUBLISHED DECEMBER 31, 1929. Class 6.

268,601. FLUXES—NAMELY, SOLDERING FLUXES. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed November 7, 1929. Serial No. 292,106. PUBLISHED DECEMBER 31, 1929. Class 6.

268,602. PERMANENT HAIR-WAVING SUPPLIES. CHANEY PRODUCTS, INC., New York, N. Y.
Filed November 7, 1929. Serial No. 292,097. PUBLISHED JANUARY 7, 1930. Class 6.

268,603. TABLETS FOR TREATING CONDITIONS OF HYPERACIDITY. THE GAZETTE COMPANY, New London, Conn.
Filed November 4, 1929. Serial No. 291,972. PUBLISHED JANUARY 7, 1930. Class 6.

268,604. WORM TABLETS FOR ADULT DOGS AND FOXES. GEORGE W. BROWNING, Mobile, Ala.
Filed November 4, 1929. Serial No. 291,963. PUBLISHED JANUARY 7, 1930. Class 6.

268,605. MEDICINAL PREPARATION DESIGNED TO BE USED IN THE TREATMENT OF ECZEMA. THE MEDICO LABORATORIES, Chicago, Ill.
Filed January 19, 1928. Serial No. 260,839. PUBLISHED NOVEMBER 6, 1928. Class 6.

268,606. SUITS, STOCKINGS, SKIRTS, ETC. LÉON GASTON LÉVY, Paris, France.
Filed January 14, 1928. Serial No. 260,127. PUBLISHED JANUARY 7, 1930. Class 39.

268,607. SUITS, STOCKINGS, SKIRTS, ETC. LÉON GASTON LÉVY, Paris, France.
Filed January 14, 1928. Serial No. 260,126. PUBLISHED JANUARY 7, 1930. Class 39.

268,608. PORTFOLIOS, POCKETBOOKS, WALLETS, KEY CASES, ALL MADE OF LEATHER. BROWN & BIGELOW, St. Paul, Minn.
Filed November 25, 1927. Serial No. 258,017. PUBLISHED JANUARY 7, 1930. Class 3.

268,609. CHEMICAL PREPARATION TO BE MIXED WITH FUEL FOR INTERNAL-COMBUSTION ENGINES FOR PROMOTING THE EFFICIENCY OF THE FUEL AND FOR PREVENTING AND REMOVING CARBON. JOSEPH B. GILDERSLEEVE, doing business as The Motormite Company, New York, N. Y.
Filed November 9, 1929. Serial No. 292,206. PUBLISHED DECEMBER 31, 1929. Class 6.

268,610. SILKS IN THE PIECE. DAVISON-PAXON COMPANY, Atlanta, Ga.
Filed October 15, 1927. Serial No. 256,102. PUBLISHED JANUARY 7, 1930. Class 42.

268,611. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Cambridge, Mass.
Filed October 5, 1927. Serial No. 255,669. PUBLISHED APRIL 9, 1929. Class 46.

268,612. MAGNET WIRE. THE MARING WIRE COMPANY, Muskegon, Mich.
Filed October 3, 1927. Serial No. 255,565. PUBLISHED DECEMBER 31, 1929. Class 21.

268,613. COMBINATION SYRUP MADE OF CORN SYRUPS AND PURE SORGHUM SYRUP. RODDENBERY BROTHERS, Cairo, Ga.
Filed April 23, 1928. Serial No. 265,295. PUBLISHED JULY 24, 1928. Class 46.

268,614. MAPLE SYRUP. GREEN MOUNTAIN PACKING COMPANY, Portland, Me.
Filed April 3, 1928. Serial No. 264,230. PUBLISHED JANUARY 8, 1929. Class 46.

268,615. FRESH GRAPES. KINGS RIVER FRUIT ASSOCIATION, Minkler, Calif.
Filed March 15, 1928. Serial No. 263,216. PUBLISHED JANUARY 7, 1930. Class 46.

268,616. CITRUS OILS AND CITRIC ACID. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif.
Filed March 8, 1928. Serial No. 262,797. PUBLISHED DECEMBER 17, 1929. Class 6.

268,617. VEGETABLE MUCILAGE OF HEMICELLULOSE CONSTITUTION FOR USE AS AN ELEMENT IN SIZE MIXINGS FOR THE SIZING AND DRESSING OF YARNS, ROPES, TWINE, THREAD, AND TEXTILE MATERIALS OF ALL KINDS, FOR LEATHER, WATERPROOFING MATERIALS, ETC. TRAGASOL PRODUCTS LIMITED, Hooton, near Birkenhead, England.
Filed February 17, 1928. Serial No. 261,847. PUBLISHED DECEMBER 31, 1929. Class 6.

268,618. VEGETABLE MUCILAGE OF HEMICELLULOSE CONSTITUTION FOR USE AS AN ELEMENT IN SIZE MIXINGS FOR THE SIZING AND DRESSING OF YARNS, ROPES, TWINE, THREAD, AND TEXTILE MATERIALS OF ALL KINDS, FOR LEATHER, WATERPROOFING MATERIALS, ETC. TRAGASOL PRODUCTS LIMITED, Hooton, near Birkenhead, England.
Filed February 17, 1928. Serial No. 261,845. PUBLISHED JANUARY 7, 1930. Class 6.

268,619. CANDY, JELLY, ETC. AUSTIN W. LANDQUIST, New York, N. Y., assignor to Lukutate Corporation of America, New York, N. Y.
Filed February 8, 1928. Serial No. 261,366. PUBLISHED JANUARY 7, 1930. Class 46.

268,620. FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed November 29, 1929. Serial No. 293,083. PUBLISHED JANUARY 7, 1930. Class 42.

268,621. LUBRICATING OILS AND GREASES. SINCLAIR REFINING COMPANY, New York, N. Y.
Filed November 27, 1929. Serial No. 293,008. PUBLISHED JANUARY 7, 1930. Class 15.

268,622. MEN'S BUSINESS, SEMIFORMAL, AND FORMAL SUITS AND OVERCOATS. SAM HOFFMAN, New York, N. Y., assignor to Bunsdorf-Hoffman Co. Inc., New York, N. Y., a Corporation of New York.
Filed July 20, 1927. Serial No. 252,328. PUBLISHED OCTOBER 18, 1927. Class 39.

268,623. PEACH PRESERVES, APPLE BUTTER, GRAPE JAM, PICKLES, ETC. MARCUS S. WOODS, doing business as The M. S. Woods Company, Chattanooga, Tenn.
Filed April 22, 1927. Serial No. 247,878. PUBLISHED JANUARY 7, 1930. Class 46.

268,624. RADIO RECEIVING SETS, POWER TUBES, AND RECTIFYING TUBES. CHAS. FRESHMAN CO., INC., New York, N. Y.
Filed April 19, 1927. Serial No. 247,686. PUBLISHED JANUARY 10, 1928. Class 21.

268,625. MALT SYRUP FOR FOOD PURPOSES. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed October 4, 1926. Serial No. 238,141. PUBLISHED JANUARY 11, 1927. Class 46.

268,626. COMBINATION UNDERGARMENTS OF KNITTED SILK FABRIC. VAN RAALTE CO. INC., New York, N. Y.
Filed January 2, 1926. Serial No. 225,456. PUBLISHED MARCH 16, 1926. Class 39.

268,627. FACE POWDERS. THE CRYSTAL CHEMICAL COMPANY, INC., Bronx, N. Y.
Filed July 11, 1929. Serial No. 286,927. PUBLISHED DECEMBER 17, 1929. Class 6.

268,628. FEEDS. MERIDIAN GRAIN & ELEVATOR CO., Meridian, Miss.
Filed November 4, 1929. Serial No. 291,994. PUBLISHED JANUARY 7, 1930. Class 46.

268,629. CIGARETTE-PACKAGE COVERS. STERN-BROWN, INC., New York, N. Y.
Filed November 2, 1929. Serial No. 291,939. PUBLISHED JANUARY 7, 1930. Class 8.

268,630. BAKERY PRODUCTS—NAMELY, BISCUITS. AMBROSIUS UMBERTO TERRABUSI, doing business as Establecimiento Modelo Terrabusi, Buenos Aires, Argentina.
Filed October 19, 1929. Serial No. 291,299. PUBLISHED DECEMBER 31, 1929. Class 46.

268,631. CIGARS. COMPAÑIA TABACALERA NACIONAL, S. A., Habana, Cuba.
Filed October 9, 1929. Serial No. 290,822. PUBLISHED DECEMBER 31, 1929. Class 17.

268,632. KNITTED CLOTH TO BE USED FOR THE PURPOSE OF CLEANING AUTOMOBILES, FURNITURE, AND THE POLISHED SURFACES OF OTHER ARTICLES. VELVETKNIT CORPORATION, Syracuse, N. Y.
Filed October 8, 1929. Serial No. 290,805. PUBLISHED DECEMBER 31, 1929. Class 29.

268,633. GRAIN PRODUCTS—NAMELY, A CEREAL CONSISTING OF CRACKED AND WHOLE GRAINS. MAPLE LEAF MILLING COMPANY LIMITED, Toronto, Ontario, Canada.
Filed October 5, 1929. Serial No. 290,712. PUBLISHED DECEMBER 31, 1929. Class 46.

268,634. WALLETS AND BILL FOLDS. SECO LEATHER PRODUCTS COMPANY, New York, N. Y.
Filed October 4, 1929. Serial No. 290,669. PUBLISHED DECEMBER 31, 1929. Class 3.

268,635. WALLETS AND BILL FOLDS. SECO LEATHER PRODUCTS COMPANY, New York, N. Y.
Filed October 4, 1929. Serial No. 290,668. PUBLISHED DECEMBER 31, 1929. Class 3.

268,636. WALLETS AND BILL FOLDS. SECO LEATHER PRODUCTS COMPANY, New York, N. Y.
Filed October 4, 1929. Serial No. 290,666. PUBLISHED DECEMBER 31, 1929. Class 3.

268,637. WALLETS AND BILL FOLDS. SECO LEATHER PRODUCTS COMPANY, New York, N. Y.
Filed October 4, 1929. Serial No. 290,665. PUBLISHED DECEMBER 31, 1929. Class 3.

268,638. WHEAT FLOUR, SELF-RISING FLOUR, CAKE FLOUR, GRAHAM FLOUR, AND PANCAKE FLOUR. BLISH MILLING COMPANY, Seymour, Ind.
Filed August 17, 1929. Serial No. 288,636. PUBLISHED DECEMBER 31, 1929. Class 46.

268,639. CIGARETTE PAPER AND CIGARETTE-PAPER TUBES. GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria.
Filed July 17, 1929. Serial No. 287,249. PUBLISHED JANUARY 7, 1930. Class 8.

268,640. ADHESIVES USED IN THE MANUFACTURING AND REPAIR OF SHOES AND SHOE PARTS. UNITED SHOE MACHINERY CORPORATION, Boston, Mass.
Filed June 29, 1929. Serial No. 286,399. PUBLISHED JANUARY 7, 1930. Class 5.

268,641. WHEAT FLOUR. FEDERAL MILL & ELEVATOR CO., INC., Lockport, N. Y.
Filed June 10, 1929. Serial No. 285,350. PUBLISHED JANUARY 7, 1930. Class 46.

268,642. LOTIONS FOR THE FACE AND HANDS, HAIR, EYES, AND FEET, CREAMS, ETC. MRS. POMEROY, LIMITED, Walham Green, London, and London, England.
Filed October 24, 1929. Serial No. 291,527. PUBLISHED DECEMBER 17, 1929. Class 6.

268,643. FIREPROOFING SOLUTIONS AND CHEMICALS. UNITED FIREPROOFING CORP., New York, N. Y.
Filed October 16, 1929. Serial No. 291,152. PUBLISHED DECEMBER 24, 1929. Class 6.

268,644. FIREPROOFING SOLUTIONS AND CHEMICALS. UNITED FIREPROOFING CORP., New York, N. Y.
Filed October 16, 1929. Serial No. 291,151. PUBLISHED DECEMBER 24, 1929. Class 6.

268,645. VANISHING CREAM, LIP STICK, FACE POWDER, AND PERFUME. MARY BLANCHE OLMSTED, Friend, Nebr.
Filed October 16, 1929. Serial No. 291,136. PUBLISHED DECEMBER 31, 1929. Class 6.

268,646. INTERNAL MEDICAL PREPARATIONS IN POWDERED AND TABLET FORM FOR HEADACHE, MIGRAINE, TOOTHACHE, DYSMENORRHEA, RHEUMATISM, NEURALGIA, NEURITIS, COLDS, AND INFLUENZA. LEWIS J. RUSKIN, doing business as Faber Neophen Company, Chicago, Ill.
Filed October 7, 1929. Serial No. 290,748. PUBLISHED DECEMBER 24, 1929. Class 6.

268,647. MEDICINAL PREPARATIONS. ALFRED BISHOP LTD., London, England.
Filed September 18, 1929. Serial No. 289,915. PUBLISHED DECEMBER 31, 1929. Class 6.

268,648. MEDICINAL PREPARATIONS FOR THE TREATMENT OF ASTHMA, HAY FEVER, AND BRONCHITIS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed September 17, 1929. Serial No. 289,885. PUBLISHED DECEMBER 24, 1929. Class 6.

268,649. TABLE SALT. SEBASTIAN GYSIN, doing business as Milwaukee Whole Food Products, Milwaukee, Wis.
Filed October 31, 1929. Serial No. 291,824. PUBLISHED DECEMBER 31, 1929. Class 6.

268,650. PREPARATION IN THE FORM OF A POMADE FOR STRAIGHTENING CURLY OR KINKY HAIR. EDNA J. LEWIS, doing business as Hawaiian Beauty Products Co., West Hollywood, Calif.
Filed October 30, 1929. Serial No. 291,776. PUBLISHED JANUARY 7, 1930. Class 6.

268,651. GENERAL TONIC. BENDINER & SCHLESINGER, INC., New York, N. Y.
Filed October 30, 1929. Serial No. 291,755. PUBLISHED DECEMBER 31, 1929. Class 6.

268,652. PREPARATION FOR THE RELIEF OF AILMENTS IN THE KIDNEYS. RALPH CLOSSON, doing business as Kavatex Co., Logansport, Ind.
Filed October 29, 1929. Serial No. 291,716. PUBLISHED DECEMBER 31, 1929. Class 6.

268,653. DENATURED ALCOHOL AND METHYLATED SPIRITS. CANADIAN INDUSTRIAL ALCOHOL COMPANY LIMITED, Montreal, Quebec, Canada.
Filed October 24, 1929. Serial No. 291,498. PUBLISHED JANUARY 7, 1930. Class 6.

268,654. PREPARATIONS FOR THE TREATMENT OF PYORRHEA, TRENCH MOUTH, BLEEDING GUMS, BAD BREATH, AND TO CLEAN AND WHITEN THE TEETH. JAMES A. COCHRANE, doing business as J. A. Cochrane & Co., Keokuk, Iowa.
Filed October 18, 1929. Serial No. 291,202. PUBLISHED DECEMBER 31, 1929. Class 6.

268,655. SCIENTIFIC PREPARATION. SHARP & DOHME, INCORPORATED, Baltimore, Md.
Filed October 12, 1929. Serial No. 291,029. PUBLISHED JANUARY 7, 1930. Class 6.

268,656. GENERAL MEDICINAL TONIC TABLET PREPARATION CONTAINING CALCIUM, PHOSPHORUS, AND IRON OF PLANT ORIGIN COMBINED WITH A BITTER TONIC. THE PHYTAMIN CORPORATION, doing business as The Genogen Company, Battle Creek, Mich.
Filed October 12, 1929. Serial No. 291,023. PUBLISHED DECEMBER 31, 1929. Class 6.

268,657. HAIR SHAMPOO. STEIN COSMETICS COMPANY, INC., New York, N. Y.
Filed September 16, 1929. Serial No. 289,850. PUBLISHED DECEMBER 31, 1929. Class 6.

268,658. PREPARATION FOR THE TREATMENT OF NERVOUS AFFECTIONS. TROPONWERKE DINKLAGE & CO., Cologne-Mulheim, Germany.
Filed September 10, 1929. Serial No. 289,604. PUBLISHED DECEMBER 17, 1929. Class 6.

268,659. CHEMICAL MATERIALS FOR CONDITIONING METAL SURFACES PREPARATORY TO ENAMELING. PARKER RUST-PROOF COMPANY, Detroit, Mich.
Filed August 10, 1929. Serial No. 288,392. PUBLISHED DECEMBER 3, 1929. Class 6.

268,660. STOCK AND POULTRY MINERALS, A CONDITIONER FOR ALL KINDS OF LIVESTOCK AND POULTRY. DAVID C. GAMBLE, Lima, Ohio.
Filed July 24, 1929. Serial No. 287,578. PUBLISHED DECEMBER 31, 1929. Class 6.

268,661. A PREPARATION FOR KILLING DANDELIONS. NORTHERN PRODUCTS, INC., Denver, Colo.
Filed July 5, 1929. Serial No. 286,651. PUBLISHED DECEMBER 31, 1929. Class 6.

268,662. COLD CREAMS, MASSAGE CREAM, HAIR DYE, ETC. M. CURTIS OGLESBY, Pomona, Calif.
Filed June 27, 1929. Serial No. 286,259. PUBLISHED DECEMBER 31, 1929. Class 6.

268,663. LINIMENT FOR RELIEVING RHEUMATIC AND MUSCULAR PAIN, NEURALGIA, SCIATICA, STIFF NECK, SPRAINS, STIFFNESS, SORENESS OF MUSCLES, AND SIMILAR AILMENTS. SAMUEL COOPER, doing business as Purr Chemical Co., Woodside, N. Y.
Filed June 4, 1929. Serial No. 285,017. PUBLISHED JANUARY 7, 1930. Class 6.

268,664. BABY POWDER. SAMUEL COOPER, doing business as Purr Chemical Co., Woodside, N. Y.
Filed June 4, 1929. Serial No. 285,016. PUBLISHED JANUARY 7, 1930. Class 6.

268,665. BABY POWDER. SAMUEL COOPER, doing business as Purr Chemical Co., Woodside, N. Y.
Filed June 4, 1929. Serial No. 285,015. PUBLISHED JANUARY 7, 1930. Class 6.

268,666. SALVE FOR THE TREATMENT OF CARBUNCLES, BLOOD POISONING, CUTS, AND WOUNDS. PATRICK J. BRESLIN, doing business as Robin Hood Salve Co., Brooklyn, N. Y.
Filed November 4, 1929. Serial No. 291,962. PUBLISHED JANUARY 7, 1930. Class 6.

268,667. LAXATIVE COMPOUNDED FROM HERBS AND VEGETABLES. SEBASTIAN GYSIN, doing business as Milwaukee Whole Food Products, Milwaukee, Wis.
Filed October 31, 1929. Serial No. 291,825. PUBLISHED JANUARY 7, 1930. Class 6.

268,668. TALKING MACHINES, DISC RECORDS, AND PARTS THEREOF—TO WIT, DISC BLANKS, DIAPHRAGMS, SOUND BOXES, TONE ARMS, AND LOUD-SPEAKERS. COMPAGNIE GENERALE DES MACHINES PARLANTES "PATHE-FRERES," Paris, France.
Filed May 10, 1929. Serial No. 283,784. PUBLISHED JANUARY 7, 1930. Class 36.

268,669. RESILIENT SEATS FOR COUCHES, CHAIRS, AND DAVENPORTS, INCLUDING ATTACHMENT CLAMPS, WIRES, WOVEN MATERIAL, AND SUSPENSION SPRINGS FOR SUCH SEATS. JACOB KRONHEIM, Cleveland, Ohio.
Filed May 8, 1929. Serial No. 283,648. PUBLISHED DECEMBER 31, 1929. Class 32.

268,670. HORSESHOES. THE VICTORY RACING PLATE COMPANY, Baltimore, Md.
Filed May 1, 1929. Serial No. 283,357. PUBLISHED DECEMBER 31, 1929. Class 8.

268,671. ANTISEPTIC AND ASTRINGENT POWDERS. MARIE K. WOLVERTON, doing business as Riddo-Girms Chemical Co., Detroit, Mich.
Filed April 29, 1929. Serial No. 283,244. PUBLISHED DECEMBER 31, 1929. Class 6.

268,672. LEAD STORAGE BATTERIES. LONGLIFE BATTERY INC., South Boston, Mass.
Filed April 27, 1929. Serial No. 283,126. PUBLISHED JANUARY 7, 1930. Class 21.

268,673. INCANDESCENT ELECTRIC LAMPS. WESLEY H. BACKER, East Orange, N. J.
Filed April 27, 1929. Serial No. 283,081. PUBLISHED JANUARY 7, 1930. Class 21.

268,674. MOTOR ROBES, CARRIAGE ROBES, AND STEAMER, TRAVELING, AND SPORT RUGS. SANFORD MILLS, Sanford, Me., and Boston, Mass.
Filed April 26, 1929. Serial No. 283,061. PUBLISHED AUGUST 13, 1929. Class 42.

268,675. GRAPH BOARDS. BENJAMIN LEWIS PADGETT, Los Angeles, Calif.
Filed April 22, 1929. Serial No. 282,791. PUBLISHED DECEMBER 31, 1929. Class 26.

268,676. SOUND-PICTURE APPARATUS—NAMELY, APPARATUS FOR RECORDING AND REPRODUCING SOUND AND LIGHT EFFECTS, AND APPARATUS FOR RECORDING SOUND EFFECTS UPON AND REPRODUCING SOUND EFFECTS FROM FILMS. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed April 19, 1929. Serial No. 282,690. PUBLISHED JANUARY 7, 1930. Class 26.

268,677. GASOLINE. THE GREAT WESTERN OIL COMPANY, Cleveland, Ohio.
Filed April 19, 1929. Serial No. 282,646. PUBLISHED JANUARY 7, 1930. Class 15.

268,678. CANNED FRUITS AND VEGETABLES, DRIED FRUIT, PICKLES, ETC. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed April 19, 1929. Serial No. 282,638. PUBLISHED DECEMBER 31, 1929. Class 46.

268,679. SHOP AND HAND TRUCKS. HOWE CHAIN COMPANY, Muskegon, Mich.
Filed April 17, 1929. Serial No. 282,554. PUBLISHED JANUARY 7, 1930. Class 19.

268,680. ELECTRICALLY-OPERATED HOUSEHOLD MIXERS. CERAMIC MACHINERY COMPANY, doing business as Columbia Manufacturing Company, Hamilton, Ohio.
Filed April 17, 1929. Serial No. 282,528. PUBLISHED DECEMBER 31, 1929. Class 21.

268,681. RESISTANCE ELEMENTS IN LIGHTNING ARRESTERS. EDWARD A. EVERETT, Long Island City, N. Y.
Filed April 16, 1929. Serial No. 282,457. PUBLISHED JANUARY 7, 1930. Class 21.

268,682. CANNED CAVIAR. ANGUS WATSON & CO. (AMERICA) LTD., San Francisco, Calif.
Filed April 13, 1929. Serial No. 282,834. PUBLISHED JANUARY 7, 1930. Class 46.

268,683. OLIVE OIL. GERALDI-DORMAN, INC., Brooklyn, N. Y.
Filed January 4, 1929. Serial No. 277,580. PUBLISHED JANUARY 7, 1930. Class 46.

268,684. BEDCOVERS, COVERLETS, COVERINGS, COUNTERPANES, MADE OF COTTON, ARTIFICIAL SILK, AND OF A MIXTURE OF COTTON AND ARTIFICIAL SILK. R. A. FIGLI DI GIUSEPPE GALLINA, Chieri, Italy.
Filed January 4, 1929. Serial No. 277,577. PUBLISHED DECEMBER 31, 1929. Class 42.

268,685. CANNED SNACKS, KIPPERED HERRING, AND CRAB MEAT. ANGUS WATSON & CO. (AMERICA) LTD., San Francisco, Calif.
Filed December 28, 1928. Serial No. 277,383. PUBLISHED JANUARY 7, 1930. Class 46.

268,686. NAIL POLISH. JOHN A. SCHMITZ, doing business as Silver Moon Specialty Co., Chicago, Ill.
Filed December 28, 1928. Serial No. 277,318. PUBLISHED MARCH 5, 1929. Class 6.

268,687. CAT MEDICINE. DR. A. C. DANIELS INC., Boston, Mass.
Filed December 22, 1928. Serial No. 277,099. PUBLISHED DECEMBER 24, 1929. Class 6.

268,688. QUICK-SETTING COMPOUND FOR ALL CEMENT MIXTURES. THE SULLIVAN COMPANY, Memphis, Tenn.
Filed November 21, 1929. Serial No. 292,688. PUBLISHED DECEMBER 31, 1929. Class 6.

268,689. INSECTICIDE FOR ROACHES, ANTS, BEDBUGS, FLEAS, FLIES, HOUSE SPIDERS, AND OTHER INSECT PESTS. BENJAMIN COHEN, doing business as Insene Manufacturing Co., Philadelphia, Pa.
Filed November 20, 1929. Serial No. 292,615. PUBLISHED DECEMBER 31, 1929. Class 6.

268,690. CHESTNUT-WOOD TANNIN EXTRACTS. THE CHAMPION FIBRE COMPANY, Canton, N. C.
Filed November 18, 1929. Serial No. 292,600. PUBLISHED DECEMBER 31, 1929. Class 6.

268,691. GENERAL NUTRITIVE AND RESTORATIVE TONIC. VITAGENOL MEDICINE CO., El Paso, Tex.
Filed November 19, 1929. Serial No. 292,598. PUBLISHED DECEMBER 31, 1929. Class 6.

268,692. URIC-ACID SOLVENT AND PREPARATION EFFICIENT IN THE TREATMENT OF LITHÆMIA RHEUMATISM, GOUT, AND MANY KINDRED AFFECTIONS. ALLIED DRUG AND CHEMICAL CORPORATION, New York, N. Y.
Filed November 15, 1929. Serial No. 292,433. PUBLISHED DECEMBER 31, 1929. Class 6.

268,693. INSECTICIDE FOR FLIES, GNATS, MOSQUITOES, ROACHES, MOTHS, BEDBUGS, ETC. M. & B. PRODUCTS CO., Philadelphia, Pa.
Filed November 14, 1929. Serial No. 292,408. PUBLISHED DECEMBER 31, 1929. Class 6.

268,694. HOME AND HOSPITAL ANTISEPTIC. E. R. SQUIBB & SONS, New York, N. Y.
Filed November 13, 1929. Serial No. 292,375. PUBLISHED DECEMBER 24, 1929. Class 6.

268,695. MEDICINAL PREPARATION FOR THE RELIEF OF COUGHS AND BRONCHITIS. R. J. STRASENBURGH CO., Rochester, N. Y.
Filed November 9, 1929. Serial No. 292,234. PUBLISHED DECEMBER 31, 1929. Class 6.

268,696. ANTISEPTICS. THE PEPSODENT CO., Chicago, Ill.
Filed November 9, 1929. Serial No. 292,228. PUBLISHED DECEMBER 24, 1929. Class 6.

268,697. MEDICINAL PREPARATION FOR INTERNAL USE WITH PROPERTIES HAVING A DIURETIC AND ANTACID EFFECT ON THE KIDNEYS AND BLADDER AND A DIRECT ACTION ON THE BOWELS. MAGAY CORPORATION, New York, N. Y.
Filed November 9, 1929. Serial No. 292,217. PUBLISHED DECEMBER 31, 1929. Class 6.

268,698. PERFUMES, TOILET WATERS, FACE LOTIONS, FACE CREAMS, FACE POWDERS, ROUGES, AND LIP STICKS. HYMAN & OPPENHEIM, INC., New York, N. Y.
Filed November 13, 1929. Serial No. 292,359. PUBLISHED DECEMBER 31, 1929. Class 6.

268,699. BAKING POWDER. STANDARD BRANDS INCORPORATED, Dover, Del., Cincinnati, Ohio, and New York, N. Y.
Filed November 8, 1929. Serial No. 292,184. PUBLISHED DECEMBER 31, 1929. Class 6.

268,700. CHEMICAL PREPARATIONS CONTAINING SODA USED FOR WASHING AND BLEACHING. BENZIT AKTIENGESELLSCHAFT, Berlin, Germany.
Filed November 1, 1929. Serial No. 291,865. PUBLISHED DECEMBER 24, 1929. Class 6.

268,701. DEODORIZERS AND DISINFECTANTS WITH STYPTIC, ANTISEPTIC, AND ALTERATIVE QUALITIES. THE TILDEN COMPANY, New Lebanon, N. Y.
Filed October 28, 1929. Serial No. 291,703. PUBLISHED DECEMBER 24, 1929. Class 6.

268,702. MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATISM AND FOR PURIFYING THE BLOOD. BESSIE L. JOLES, Eau Claire, Wis.
Filed October 28, 1929. Serial No. 291,673. PUBLISHED DECEMBER 31, 1929. Class 6.

268,703. BROMINIZED OILS FOR RADIOGRAPHIC VISUALIZATION. ABBOTT LABORATORIES, North Chicago, Ill.
Filed October 28, 1929. Serial No. 291,651. PUBLISHED DECEMBER 24, 1929. Class 6.

268,704. PERFUMES AND TOILET WATERS. EDWARD A. WELTERS, Jacksonville, Fla.
Filed October 26, 1929. Serial No. 291,650. PUBLISHED DECEMBER 17, 1929. Class 6.

268,705. PILE OINTMENT. PILO-O-CHASE CHEMICAL COMPANY, Foxburg, Pa.
Filed October 26, 1929. Serial No. 291,634. PUBLISHED DECEMBER 31, 1929. Class 6.

268,706. ROUGE. BERTIE KELLY, doing business as The Eneblend Co., Weatherford, Tex.
Filed October 25, 1929. Serial No. 291,566. PUBLISHED DECEMBER 31, 1929. Class 6.

268,707. TOOTH PASTE. CHESTER E. SAWYER COMPANY, Boston, Mass.
Filed October 24, 1929. Serial No. 291,581. PUBLISHED DECEMBER 17, 1929. Class 6.

268,708. COMB HONEY AND EXTRACTED HONEY. COLORADO HONEY PRODUCERS ASSOCIATION, Denver, Colo.
Filed April 11, 1929. Serial No. 282,225. PUBLISHED JULY 16, 1929. Class 46.

268,709. LIVESTOCK FEED. SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo.
Filed April 8, 1929. Serial No. 282,065. PUBLISHED JANUARY 7, 1930. Class 46.

268,710. POULTRY FEED. SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo.
Filed April 8, 1929. Serial No. 282,064. PUBLISHED JANUARY 7, 1930. Class 46.

268,711. LIVESTOCK AND POULTRY FEED. SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo.
Filed April 8, 1929. Serial No. 282,062. PUBLISHED JANUARY 7, 1930. Class 46.

268,712. BLEACHING LIQUID. ZIPAL PRODUCTS CO., Rochester, N. Y.
Filed March 22, 1929. Serial No. 281,184. PUBLISHED DECEMBER 31, 1929. Class 6.

268,713. READING GLASSES, OPHTHALMIC LENSES, EYEGLASSES, ETC. CARL ZEISS, Jena, Germany.
Filed March 16, 1929. Serial No. 280,866. PUBLISHED JANUARY 7, 1930. Class 26.

268,714. SOLVENT AND DILUENT FOR LACQUERS, VARNISHES, PAINTS, AND OTHER ALLIED PRODUCTS. HYDROCARBON PRODUCTS COMPANY, INC., New York, N. Y.
Filed March 13, 1929. Serial No. 280,645. PUBLISHED JUNE 11, 1929. Class 16.

268,715. APPARATUS FOR PREPARING INFUSIONS SUCH AS THOSE OF COFFEE AND TEA. AUTOMATIC DRIP-O-LATOR COMPANY, Kansas City, Mo., assignor, by mesne assignments, to The Enterprise Aluminum Company, Massillon, Ohio, a Corporation of Ohio.
Filed March 13, 1929. Serial No. 280,629. PUBLISHED JULY 2, 1929. Class 13.

268,716. CANE, FIBRE, WOOD, LEATHER, METAL, AND COMPO BOARD (AND OTHER MACHINE PRESSED), FLAG, SPLINE, AND SPLINT SEATS FOR CHAIRS AND OTHER ARTICLES OF FURNITURE AND PLAIN UPHOLSTERY. THE INDUSTRIAL HOME FOR THE BLIND, Brooklyn, N. Y.
Filed February 16, 1929. Serial No. 279,518. PUBLISHED DECEMBER 31, 1929. Class 32.

268,717. CHOCOLATE AND CHOCOLATE-COATED NUTS. TOM HUSTON PEANUT COMPANY, Columbus, Ga.
Filed February 8, 1929. Serial No. 279,073. PUBLISHED JANUARY 7, 1930. Class 46.

268,718. LIGHTER FLUID FOR USE IN POCKET LIGHTERS. THE TOLEDO REX SPRAY COMPANY, Toledo, Ohio.
Filed January 18, 1929. Serial No. 278,143. PUBLISHED DECEMBER 31, 1929. Class 6.

268,719. BREAD. HOMADE BAKING CO., Scranton, Pa.
Filed January 18, 1929. Serial No. 278,126. PUBLISHED JANUARY 7, 1930. Class 46.

268,720. MUSICAL INSTRUMENTS AND SUPPLIES, ACCESSORIES THEREFOR, ENVELOPES, AND ALBUMS. CHARLES J. KRONBERG, doing business as National Record Company, New York, N. Y.
Filed January 11, 1929. Serial No. 277,846. PUBLISHED JANUARY 7, 1930. Class 36.

268,721. MEDICINE FOR RHEUMATISM. ARTHUR VALLEY, Manchester, N. H.
Filed February 2, 1929. Serial No. 278,822. PUBLISHED OCTOBER 29, 1929. Class 6.

268,722. MEDICINAL PREPARATION FOR INDIGESTION. THOMAS H. JONES, doing business as Calcimint Laboratory, Cleveland, Ohio.
Filed January 9, 1929. Serial No. 277,761. PUBLISHED APRIL 16, 1929. Class 6.

268,723. POULTRY FEED. SCHREIBER MILLING & GRAIN CO., St. Joseph, Mo.
Filed April 8, 1929. Serial No. 282,061. PUBLISHED JANUARY 7, 1930. Class 46.

268,724. LUMINESCENT TUBES, BEING GAS-FILLED TUBES SUPPLIED WITH A CURRENT OF ELECTRICITY AND USED IN DISPLAY SIGNS, AND LUMINESCENT TUBE PRODUCTS CONSISTING OF SUPPORTS FOR LUMINESCENT GAS-FILLED TUBES, HIGH-TENSION INSULATORS, ELECTRODE HOUSINGS. SUN-GLO NEON CORPORATION, Fort Worth, Tex.
Filed April 8, 1929. Serial No. 282,015. PUBLISHED DECEMBER 3, 1929. Class 21.

268,725. COFFEE. NO M. POON, doing business as Aroma Coffee Co., San Antonio, Tex.
Filed March 28, 1929. Serial No. 281,520. PUBLISHED JANUARY 7, 1930. Class 46.

268,726. ICE CREAM, ICES, AND FROZEN CUSTARDS. FUSSELL-YOUNG ICE CREAM CO., Washington, D. C.
Filed March 27, 1929. Serial No. 281,417. PUBLISHED JANUARY 7, 1930. Class 46.

268,727. ALIMENTARY PASTE GOODS. THE JOHN B. CANEPA COMPANY, Chicago, Ill.
Filed March 25, 1929. Serial No. 281,257. PUBLISHED DECEMBER 31, 1929. Class 46.

268,728. INSTRUMENTS FOR REPRODUCING SOUND, CONSISTING OF LOUD-SPEAKER MOTORS AND LOUD-SPEAKERS. B. B. LABORATORIES, INC., Irvington, N. J.
Filed December 14, 1928. Serial No. 276,682. PUBLISHED MAY 21, 1929. Class 21.

268,729. PREPARATION USED FOR TREATING COLDS AND CATARRH. OTTO KARL QUAST, doing business as "The Nix-Lix Mfg. Co." Spokane, Wash.
Filed December 10, 1928. Serial No. 276,536. PUBLISHED DECEMBER 31, 1929. Class 6.

268,730. PUDDING IN POWDERED FORM. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed December 5, 1928. Serial No. 276,384. PUBLISHED DECEMBER 24, 1929. Class 46.

268,731. ELECTRICAL SPOTLIGHTS, FLOOD LIGHTS, AND ELECTRIC LIGHTS FOR PHOTO-ENGRAVING AND STUDIO LIGHTING EQUIPMENT. HALL & CONNOLLY, INC., New York, N. Y.
Filed December 3, 1928. Serial No. 276,183. PUBLISHED JANUARY 7, 1930. Class 21.

268,732. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 1, 1928. Serial No. 276,129. PUBLISHED JANUARY 7, 1930. Class 42.

268,733. MEN'S WORK SHIRTS. BROWN DURRELL CO., Boston, Mass.
Filed November 22, 1928. Serial No. 275,657. PUBLISHED JANUARY 7, 1930. Class 39.

268,734. RAYON YARN FOR USE BY MANUFACTURERS TO PRODUCE RAYON FABRICS OR RAYON ARTICLES OF WEARING APPAREL. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.
Filed November 15, 1928. Serial No. 275,357. PUBLISHED DECEMBER 31, 1929. Class 43.

268,735. HAT-RENOVATING MACHINES. RHODES ELECTRIC HAT-MAN, INC., Seattle, Wash.
Filed November 10, 1928. Serial No. 275,131. PUBLISHED JANUARY 7, 1930. Class 24.

268,736. TABLETS HAVING THE GENERAL PROPERTIES OF A TONIC AND BODY BUILDER. HENRY S. WOOLSEY, doing business as Valrose Chemical Co., Kingston, N. Y.
Filed November 1, 1928. Serial No. 274,687. PUBLISHED DECEMBER 31, 1929. Class 6.

268,737. PRESERVED FRUITS. TEXAS PRESERVING COMPANY, Alvin, Tex.
Filed October 25, 1928. Serial No. 274,295. PUBLISHED JANUARY 7, 1930. Class 46.

268,738. MEDICINAL REMEDY FOR ASTHMA. ANNA YAFFE, doing business as Yaffe Company, Philadelphia, Pa.
Filed October 24, 1928. Serial No. 274,248. PUBLISHED DECEMBER 17, 1929. Class 6.

268,739. VIBRATORY CONVERTORS FOR ALTERNATING CURRENTS. THE COLSON COMPANY, Elyria, Ohio.
Filed October 24, 1928. Serial No. 274,205. PUBLISHED DECEMBER 31, 1929. Class 21.

268,740. BOXES, CASES, AND FLASKS OF STAMPED METAL FOR PACKING PURPOSES. SOCIETE INDUSTRIELLE DE REALISATION ARTISTIQUE ANCIENS ETABLISSEMENTS BERLAN, LEDERLIN ET CIE. (SOCIETE ANONYME), Paris, France.
Filed October 19, 1928. Serial No. 274,019. PUBLISHED JANUARY 7, 1930. Class 2.

268,741. PECTIN. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif.
Filed October 16, 1928. Serial No. 273,861. PUBLISHED DECEMBER 31, 1929. Class 46.

268,742. BURGLAR ALARMS AND BURGLAR-ALARM SYSTEMS. NATIONAL WIRING & PROTECTIVE CO. INC., Brooklyn, N. Y.
Filed October 15, 1928. Serial No. 273,832. PUBLISHED DECEMBER 31, 1929. Class 21.

268,743. SURGICAL APPLIANCES MADE IN WHOLE OR IN PART OF RUBBER. HANOVER RUBBER CO. "EXCELSIOR" INC., New York, N. Y.
Filed October 12, 1928. Serial No. 273,700. PUBLISHED DECEMBER 31, 1929. Class 44.

268,744. CANDY, CHEWING GUM, CANDIED NUTS; SHELLED NUTS—NAMELY, PEANUTS; AND NUTS IN THEIR SHELLS. ROBERT G. LINDSAY, Miami, Fla.
Filed October 11, 1928. Serial No. 273,661. PUBLISHED JANUARY 7, 1930. Class 46.

268,745. MECHANICAL COUNTING AND INDICATING DEVICES. VEEDER-ROOT INCORPORATED, Hartford, Conn.
Filed October 6, 1928. Serial No. 273,482. PUBLISHED DECEMBER 31, 1929. Class 26.

268,746. MOTOR-LUBRICATING OIL. THE ARROW OIL COMPANY, Wooster, Ohio.
Filed December 19, 1928. Serial No. 276,944. PUBLISHED DECEMBER 17, 1929. Class 15.

268,747. METAL MEMORIAL VASE. WILLIAM H. SAYAGE, Fitchburg, Mass., assignor to Samuel W. Dodge, Leominster, Mass.
Filed December 17, 1928. Serial No. 276,863. PUBLISHED JANUARY 7, 1930. Class 13.

268,748. WORK CLOTHING—NAMELY, OVERALLS, WORK SHIRTS, WORK PANTS, AND COVERALLS OR COMBINATION OVERALL SUITS. WASHINGTON MANUFACTURING CO., Nashville, Tenn.
Filed September 12, 1929. Serial No. 289,700. PUBLISHED DECEMBER 31, 1929. Class 39.

268,749. FURNITURE AND AUTO POLISH. EDGAR J. GRIFFING, Waterbury, Conn.
Filed September 9, 1929. Serial No. 289,515. PUBLISHED DECEMBER 31, 1929. Class 16.

268,750. HATS AND CAPS FOR MEN AND BOYS. PERLMAN BROTHERS, New York, N. Y.
Filed August 27, 1929. Serial No. 289,085. PUBLISHED DECEMBER 31, 1929. Class 39.

268,751. LADIES' STOCKINGS. CHETWODE INC., New York, N. Y.
Filed August 26, 1929. Serial No. 289,006. PUBLISHED DECEMBER 31, 1929. Class 39.

268,752. LEATHER BOOTS AND SHOES. CARLISLE SHOE COMPANY, Carlisle, Pa.
Filed August 6, 1929. Serial No. 288,176. PUBLISHED DECEMBER 31, 1929. Class 39.

268,753. LEATHER AND FABRIC GLOVES. STEINBERGER BROS. GLOVE CORP., San Francisco, Calif., and New York, N. Y.
Filed September 30, 1929. Serial No. 290,436. PUBLISHED DECEMBER 31, 1929. Class 39.

268,754. LADIES' HATS. ERNEST L. RHODES COMPANY, Atlanta, Ga.
Filed September 23, 1929. Serial No. 290,147. PUBLISHED DECEMBER 31, 1929. Class 39.

268,755. FUR GARMENTS—NAMELY, COATS AND SCARFS, CONSISTING OF DRESSED SKINS, FOR MEN, WOMEN, AND CHILDREN. A. PAUL & SONS, INC., New York, N. Y.
Filed September 17, 1929. Serial No. 289,899. PUBLISHED DECEMBER 17, 1929. Class 39.

268,756. DRESS AND NEGLIGEE SHIRTS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.
Filed October 9, 1929. Serial No. 290,849. PUBLISHED JANUARY 7, 1930. Class 39.

268,757. DRESS AND NEGLIGEE SHIRTS. THE MAY DEPARMENT STORES COMPANY, New York, N. Y.
Filed October 9, 1929. Serial No. 290,848. PUBLISHED JANUARY 7, 1930. Class 39.

268,758. MILLINERY—NAMELY, MISSES' AND CHILDREN'S HATS. CONSOLIDATED MILLINERY COMPANY, Chicago, Ill.
Filed October 9, 1929. Serial No. 290,824. PUBLISHED DECEMBER 31, 1929. Class 39.

268,759. MEN'S AND WOMEN'S OUTER CLOTHING—NAMELY, SUITS, PANTS, KNICKERS, TOP AND OVER COATS. AARON I. BINSKY, INC., New York, N. Y.
Filed October 4, 1929. Serial No. 290,648. PUBLISHED DECEMBER 31, 1929. Class 39.

268,760. WORK PANTS, WORK SHIRTS, WORK COATS, OVERALLS FOR MEN AND BOYS; PLAY SUITS FOR CHILDREN. C. R. ANTHONY COMPANY, Oklahoma City, Okla.
Filed October 18, 1929. Serial No. 291,197. PUBLISHED DECEMBER 10, 1929. Class 39.

268,761. WORK GLOVES MADE OF FABRIC. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed October 16, 1929. Serial No. 291,112. PUBLISHED DECEMBER 24, 1929. Class 39.

268,762. MEN'S KNITTED AND TEXTILE UNDERWEAR. S. H. KRESS & Co., New York, N. Y.
Filed October 11, 1929. Serial No. 290,957. PUBLISHED DECEMBER 24, 1929. Class 39.

268,763. SKIRTS. BERNARD EPSTEIN, New York, N. Y.
Filed October 11, 1929. Serial No. 290,941. PUBLISHED DECEMBER 31, 1929. Class 39.

268,764. DRESS AND NEGLIGEE SHIRTS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.
Filed October 9, 1929. Serial No. 290,850. PUBLISHED JANUARY 7, 1930. Class 39.

268,765. SHOES CONSTRUCTED OF THE COMBINATION OF LEATHER, RUBBER, AND FABRIC. SOBEL SHOE CO. INC., Boston, Mass.
Filed October 19, 1929. Serial No. 291,297. PUBLISHED DECEMBER 31, 1929. Class 39.

268,766. MEN'S FELT HATS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 18, 1929. Serial No. 291,242. PUBLISHED DECEMBER 31, 1929. Class 39.

268,767. MEN'S CLOTH COATS. NEW PROCESS COMPANY, Warren, Pa.
Filed October 18, 1929. Serial No. 291,234. PUBLISHED JANUARY 7, 1930. Class 39.

268,768. ELECTRICALLY-OPERATED EXERCISERS. WOLCOTT, INCORPORATED, Hartford, Conn.
Filed July 17, 1929. Serial No. 287,271. PUBLISHED DECEMBER 31, 1929. Class 44.

268,769. BOOT AND SHOE SOCKS. LEWIS SILVANUS WILLIAMS, doing business as E. Randall & Co., Romsey, England.
Filed July 2, 1929. Serial No. 286,525. PUBLISHED JANUARY 7, 1930. Class 39.

268,770. DRY CLEANER. YANKEE POLISH CO., INC., New York, N. Y.
Filed June 6, 1929. Serial No. 285,185. PUBLISHED SEPTEMBER 3, 1929. Class 4.

268,771. PAINT FOR USE UPON BLACK BOARDS. WILLIAM W. CONNER, Washington, D. C.
Filed June 6, 1929. Serial No. 285,147. PUBLISHED JANUARY 7, 1930. Class 16.

268,772. EXTRACT OF WHOLE OVARIES AND CORPUS LUTEUM CONTAINING ESTRUS-PRODUCING HORMONES WITH THE HORMONES PRESENT IN CORPUS LUTEUM FOR THE TREATMENT OF OVARIAN DISORDERS. THE VITALAIT LABORATORY OF CALIFORNIA, INC., Pasadena, Calif.
Filed November 8, 1929. Serial No. 292,189. PUBLISHED DECEMBER 24, 1929. Class 6.

268,773. BITTER MEDICATED MINERAL OIL FOR USE AS A TONIC, LAXATIVE, AND INTERNAL LUBRICANT. EUGENE E. BEADLE, doing business as United Pharmacal Laboratories, Waterbury, Conn.
Filed November 8, 1929. Serial No. 292,153. PUBLISHED DECEMBER 31, 1929. Class 6.

268,774. GALVANIZED DUST BINS, PAILS, AND BUCKETS, AND PARTS THEREOF. SCHMIDT & MELMER, Weidenau-on-the-Sieg, Germany.
Filed November 2, 1929. Serial No. 291,937. PUBLISHED JANUARY 7, 1930. Class 2.

268,775. VULCANIZER HEATERS AND VULCANIZER-HEATER DOORS. NATIONAL-ERIE COMPANY, Erie, Pa.
Filed November 2, 1929. Serial No. 291,926. PUBLISHED JANUARY 7, 1930. Class 34.

268,776. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 2, 1929. Serial No. 291,914. PUBLISHED DECEMBER 24, 1929. Class 6.

268,777. CAPSULES FOR RHEUMATISM, NEURITIS, AND LUMBAGO. WILLIAM P. MOONEY, doing business as Mooney's Laboratory, Milwaukee, Wis.
Filed October 26, 1929. Serial No. 291,632. PUBLISHED DECEMBER 31, 1929. Class 6.

268,778. PREPARATION FOR THE TREATMENT OF CONSTIPATION, SOUR STOMACH, ETC. ZERBST PHARMACAL COMPANY INC., St. Joseph, Mo.
Filed October 19, 1929. Serial No. 291,308. PUBLISHED DECEMBER 17, 1929. Class 6.

268,779. CERTAIN TOILET PREPARATIONS. RENER THORNTON, New York, N. Y.
Filed October 17, 1929. Serial No. 291,182. PUBLISHED DECEMBER 24, 1929. Class 6.

268,780. SHIPPING CASES. CONTAINER CORPORATION OF AMERICA, Chicago, Ill.
Filed October 14, 1929. Serial No. 291,050. PUBLISHED JANUARY 7, 1930. Class 2.

268,781. ANTACID DIGESTANT. THE NADOX CO., New Rochelle, N. Y.
Filed November 1, 1929. Serial No. 291,887. PUBLISHED DECEMBER 17, 1929. Class 6.

268,782. HAIR RESTORER. BARLOW AND GRISLER MFG. CO., Brooklyn, N. Y.
Filed October 10, 1929. Serial No. 290,871. PUBLISHED DECEMBER 17, 1929. Class 6.

268,783. CARTONS. STANCO INCORPORATED, New York, N. Y.
Filed October 3, 1929. Serial No. 290,620. PUBLISHED JANUARY 7, 1930. Class 2.

268,784. CHEMICAL WASHING FLUID FOR USE IN BLEACHING, REMOVING STAINS, AND STERILIZING CLOTHES. PAUL BIANCONE, doing business as K-O-K Cleanser Company, Columbus, Ohio.
Filed October 1, 1929. Serial No. 290,445. PUBLISHED DECEMBER 24, 1929. Class 6.

268,785. RUNNER PROPULSION ATTACHMENT FOR AUTOMOBILES. THE SNOW FLYER CORPORATION, New Holstein, Wis.
Filed September 28, 1929. Serial No. 290,380. PUBLISHED JANUARY 7, 1930. Class 19.

268,786. BATHROOM FIXTURES. UNITED WIRE GOODS MFG. CO., New York, N. Y.
Filed September 27, 1929. Serial No. 290,327. PUBLISHED JANUARY 7, 1930. Class 13.

268,787. BATHROOM FIXTURES. UNITED WIRE GOODS MFG. CO., New York, N. Y.
Filed September 27, 1929. Serial No. 290,326. PUBLISHED JANUARY 7, 1930. Class 13.

268,788. SIPHON BOTTLES, PORTABLE EMERGENCY FUEL TANKS, AND STORAGE TANKS. JOSEPH LOEB, Portland, Oreg.
Filed September 25, 1929. Serial No. 290,217. PUBLISHED JANUARY 7, 1930. Class 2.

268,789. DEPILATORY. NEET, INCORPORATED, St. Louis, Mo.
Filed September 23, 1929. Serial No. 290,141. PUBLISHED DECEMBER 24, 1929. Class 6.

268,790. HAIR POMADE AND BLEMISH CREAM. WILBERT E. PEASE, doing business as The P. C. Laboratory, Chicago, Ill.
Filed September 20, 1929. Serial No. 290,029. PUBLISHED DECEMBER 17, 1929. Class 6.

268,791. HOUSE-HEATING BOILERS BURNING SOLID, LIQUID, OR GASEOUS FUEL. UNITED STATES RADIATOR CORPORATION, Detroit, Mich.
Filed September 9, 1929. Serial No. 289,556. PUBLISHED JANUARY 7, 1930. Class 34.

268,792. CANNED GRAPEFRUIT. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed November 12, 1929. Serial No. 292,322. PUBLISHED JANUARY 7, 1930. Class 46.

268,793. CANNED VEGETABLES, FRUIT PRESERVES, MARMALADE, AND PICKLES. DADE CANNING & PRESERVING CO., Coconut Grove, Fla.
Filed November 9, 1929. Serial No. 292,202. PUBLISHED JANUARY 7, 1930. Class 46.

268,794. FRESH VEGETABLES. HOWARD P. STAGGFORTH, doing business as California Mexico Sales Co., Los Angeles, Calif.
Filed November 5, 1929. Serial No. 292,056. PUBLISHED JANUARY 7, 1930. Class 46.

268,795. FRESH VEGETABLES, FRESH DECIDUOUS FRUIT. PAUL P. SCHOENBURG, doing business as Schoenburg Bros., Salinas, Calif.
Filed November 5, 1929. Serial No. 292,053. PUBLISHED JANUARY 7, 1930. Class 46.

268,796. CANDY. F. H. ROBERTS COMPANY, Boston, Mass.
Filed November 4, 1929. Serial No. 292,011. PUBLISHED JANUARY 7, 1930. Class 46.

268,797. CANDIES. HAZEL BARNER, El Paso, Tex.
Filed November 4, 1929. Serial No. 291,958. PUBLISHED JANUARY 7, 1930. Class 46.

268,798. BEEF BOUILLON. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y.
Filed November 1, 1929. Serial No. 291,876. PUBLISHED JANUARY 7, 1930. Class 46.

268,799. CHOCOLATE-COVERED DATES. THE HILLS BROTHERS COMPANY, New York, N. Y.
Filed October 31, 1929. Serial No. 291,829. PUBLISHED JANUARY 7, 1930. Class 46.

268,800. COFFEE, TEA, AND COCOA. EDWARD J. BUTLER, Boston, Mass.
Filed October 28, 1929. Serial No. 291,655. PUBLISHED JANUARY 7, 1930. Class 46.

268,801. CANNED OYSTERS. A. S. JOHNSON FISH CO., Duluth, Minn.
Filed October 25, 1929. Serial No. 291,565. PUBLISHED JANUARY 7, 1930. Class 46.

268,802. CHOCOLATE CANDY IN CAKES OF FORTY SQUARES EACH. AMBROSIA CHOCOLATE COMPANY, Milwaukee, Wis.
Filed October 24, 1929. Serial No. 291,490. PUBLISHED JANUARY 7, 1930. Class 46.

268,803. FRESH DECIDUOUS FRUITS AND FRESH CITRUS FRUITS. S. V. CHRISTIERSON, Salinas, Calif.
Filed October 23, 1929. Serial No. 291,488. PUBLISHED JANUARY 7, 1930. Class 46.

268,804. CONFECTIONERY. ARTHUR SOTERAS, doing business as Arthur's, Chicago, Ill.
Filed October 21, 1929. Serial No. 291,363. PUBLISHED JANUARY 7, 1930. Class 46.

268,805. CANNED FISH. MCGOVERN & MCGOVERN, Seattle, Wash.
Filed November 25, 1929. Serial No. 292,883. PUBLISHED JANUARY 7, 1930. Class 46.

268,806. CANDY. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed November 25, 1929. Serial No. 292,871. PUBLISHED JANUARY 7, 1930. Class 46.

268,807. COFFEE. C. D. KENNY CO., Baltimore, Md.
Filed November 23, 1929. Serial No. 292,808. PUBLISHED JANUARY 7, 1930. Class 46.

268,808. MIXED CANNED VEGETABLES. FAIRMONT CANNING CO., Fairmont, Minn.
Filed November 23, 1929. Serial No. 292,800. PUBLISHED JANUARY 7, 1930. Class 46.

268,809. SALTED MIXED NUTS. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, New York, N. Y.
Filed November 22, 1929. Serial No. 292,708. PUBLISHED JANUARY 7, 1930. Class 46.

268,810. CANDY. HENRY MAILLARD, INC., Long Island City, N. Y.
Filed November 15, 1929. Serial No. 292,455. PUBLISHED JANUARY 7, 1930. Class 46.

268,811. SAUSAGE SPECIALTY. ROBERTS AND OAKE, INC., Chicago, Ill.
Filed November 12, 1929. Serial No. 292,336. PUBLISHED JANUARY 7, 1930. Class 46.

268,812. INTERNAL-COMBUSTION ENGINES FOR AERONAUTICAL PURPOSES. WRIGHT AERONAUTICAL CORPORATION, Paterson, N. J.
Filed November 21, 1929. Serial No. 292,700. PUBLISHED JANUARY 7, 1930. Class 23.

268,813. WINDOW-SHADE CLOTH. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill.
Filed November 21, 1929. Serial No. 292,696. PUBLISHED DECEMBER 31, 1929. Class 42.

268,814. NONALCOHOLIC, CEREAL, MALT BEVERAGES. MILLER HIGH LIFE COMPANY, Milwaukee, Wis.
Filed November 21, 1929. Serial No. 292,677. PUBLISHED JANUARY 7, 1930. Class 48.

268,815. CALCULATING, COMPUTING, AND ACCOUNTING MACHINES, ETC. THE NATIONAL CASH REGISTER COMPANY, Dayton, Ohio.
Filed November 20, 1929. Serial No. 292,637. PUBLISHED JANUARY 7, 1930. Class 26.

268,816. SHEARS AND SCISSORS. THE ACME SHEAR COMPANY, INCORPORATED, Bridgeport, Conn.
Filed November 18, 1929. Serial No. 292,514. PUBLISHED DECEMBER 31, 1929. Class 23.

268,817. WOOLEN PIECE GOODS AND WOOLEN PIECE GOODS ESPECIALLY ADAPTED TO BE USED FOR LADIES' COATS. MADISON WOOLEN COMPANY, Madison, Me.
Filed November 16, 1929. Serial No. 292,503. PUBLISHED DECEMBER 31, 1929. Class 42.

268,818. FABRICS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed November 14, 1929. Serial No. 292,393. PUBLISHED DECEMBER 31, 1929. Class 42.

268,819. FURNITURE CONSISTING OF CHAIRS, NOT INCLUDING SURGICAL AND DENTAL CHAIRS, SOFAS, AND DAVENPORTS. JAMES MCCREERY & COMPANY, New York, N. Y.
Filed November 12, 1929. Serial No. 292,328. PUBLISHED JANUARY 7, 1930. Class 32.

268,820. OPHTHALMIC LENSES AND BLANKS. SOFT-LITE LENS CO., INC., New York, N. Y.
Filed November 11, 1929. Serial No. 292,292. PUBLISHED DECEMBER 31, 1929. Class 26.

268,821. MACHINE KEYS SUCH AS THOSE EMPLOYED TO ATTACH PULLEYS TO SHAFTS AND FOR SIMILAR PURPOSES. MORTON MANUFACTURING COMPANY, Muskegon Heights, Mich.
Filed November 9, 1929. Serial No. 292,222. PUBLISHED JANUARY 7, 1930. Class 23.

268,822. BINOCULARS. MIRAKEL OPTICAL CO., Mount Vernon, N. Y.
Filed November 7, 1929. Serial No. 292,113. PUBLISHED DECEMBER 31, 1929. Class 26.

268,823. NOISELESS GEARS AND PINIONS. ATLANTIC GEAR WORKS INC., Brooklyn, N. Y.
Filed November 7, 1929. Serial No. 292,091. PUBLISHED DECEMBER 31, 1929. Class 23.

268,824. HAND TOOLS IN THE NATURE OF SHOVELS PECULIARLY ADAPTED FOR REMOVING SNOW AND SLUSH FROM SIDEWALKS AND THE LIKE. ARDMORE MANUFACTURING COMPANY, Chicago, Ill.
Filed November 6, 1929. Serial No. 292,084. PUBLISHED DECEMBER 31, 1929. Class 23.

268,825. DRINKING WATER. ANTHONY L. OSWALD, Hutchinson, Kans.
Filed November 6, 1929. Serial No. 292,077. PUBLISHED DECEMBER 31, 1929. Class 45.

268,826. ILLUMINATED READING GLASSES. HANOVER ELECTRIC COMPANY, INC., New York, N. Y.
Filed November 4, 1929. Serial No. 291,981. PUBLISHED DECEMBER 31, 1929. Class 26.

268,827. SOLID WOVEN BELT. VICTOR BALATA & TEXTILE BELTING CO., New York, N. Y.
Filed November 4, 1929. Serial No. 291,957. PUBLISHED DECEMBER 31, 1929. Class 35.

268,828. SOLID WOVEN BELT. VICTOR BALATA & TEXTILE BELTING CO., New York, N. Y.
Filed November 4, 1929. Serial No. 291,956. PUBLISHED DECEMBER 31, 1929. Class 35.

268,829. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed October 25, 1929. Serial No. 291,594. PUBLISHED JANUARY 7, 1930. Class 9.

268,830. FIREWORKS—NAMELY, TRICOLOR AND RAINBOW FLASH GRENADES. HITT FLASH-CRACKA COMPANY, Seattle, Wash.
Filed October 23, 1929. Serial No. 291,453. PUBLISHED JANUARY 7, 1930. Class 9.

268,831. FRESH DECIDUOUS FRUITS. BERNEY & COMPANY, Walla Walla, Wash.
Filed October 14, 1929. Serial No. 291,046. PUBLISHED JANUARY 7, 1930. Class 46.

268,832. BLANKETS MADE OF COTTON AND WOOL AND COMBINATIONS OF THESE MATERIALS. W. S. LIBBEY COMPANY, Lewiston, Me.
Filed October 7, 1929. Serial No. 290,756. PUBLISHED DECEMBER 31, 1929. Class 42.

268,833. CLOTH-DRYING MACHINES AND DRYING MACHINES FOR PULP PAPER, YARN. THE NATIONAL DRYING MACHINERY CO., Philadelphia, Pa.
Filed October 3, 1929. Serial No. 290,588. PUBLISHED DECEMBER 31, 1929. Class 23.

268,834. HAMMERS, CHISELS, BITS, ETC. L. BAMBERGER & CO., Newark, N. J.
Filed September 27, 1929. Serial No. 290,293. PUBLISHED JANUARY 7, 1930. Class 23.

268,835. WEIGHING SCALES. JOHN CHATILLON & SONS, New York, N. Y.
Filed September 17, 1929. Serial No. 289,873. PUBLISHED DECEMBER 31, 1929. Class 26.

268,836. GOULASH, WHICH IS A CANNED, COOKED, EDIBLE MIXTURE OF BEEF, ONIONS, AND SPICES. VICTOR GOULASH CO., Chicago, Ill.
Filed September 16, 1929. Serial No. 289,858. PUBLISHED DECEMBER 31, 1929. Class 46.

268,837. NONALCOHOLIC, NONCEREAL, MALTLESS SODA WATER SOLD AS SOFT DRINKS. THE COCA COLA BOTTLING CO., Wichita, Kans.
Filed September 5, 1929. Serial No. 289,338. PUBLISHED DECEMBER 31, 1929. Class 45.

268,838. MACHINE OR APPARATUS FOR RECLAIMING LUBRICATING OILS. REFINOIL MANUFACTURING CORPORATION, Kansas City, Mo.
Filed October 4, 1928. Serial No. 273,379. PUBLISHED DECEMBER 31, 1929. Class 23.

268,839. CERTAIN NAMED WEARING APPAREL. THE FASHION SHOP, Washington, D. C.
Filed October 3, 1928. Serial No. 273,291. PUBLISHED DECEMBER 31, 1929. Class 39.

268,840. CERTAIN NAMED WEARING APPAREL. THE FASHION SHOP, Washington, D. C.
Filed October 3, 1928. Serial No. 273,290. PUBLISHED DECEMBER 31, 1929. Class 39.

268,841. CANNED FRUITS. SUTTER PACKING CO., Mayfield, Calif.
Filed September 26, 1928. Serial No. 273,024. PUBLISHED JANUARY 7, 1930. Class 46.

268,842. LUBRICATING OILS AND GREASES. W. H. BARBER COMPANY, Minneapolis, Minn.
Filed September 26, 1928. Serial No. 272,972. PUBLISHED DECEMBER 11, 1928. Class 15.

268,843. MALT SYRUP. ANDREW H. ROSENBAUM, doing business as Andrews Products Co., Atlantic City, N. J.
Filed September 13, 1928. Serial No. 272,353. PUBLISHED MAY 28, 1929. Class 46.

268,844. CERTAIN NAMED FANCY GOODS AND FURNISHINGS. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,781. PUBLISHED DECEMBER 31, 1929. Class 40.

268,845. CERTAIN NAMED WEARING APPAREL. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,780. PUBLISHED DECEMBER 31, 1929. Class 39.

268,846. TAILORED COVERS MADE OF LEATHER. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,779. PUBLISHED DECEMBER 31, 1929. Class 32.

268,847. VALISES, SUITCASES, TRUNKS, ETC. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,778. PUBLISHED DECEMBER 31, 1929. Class 3.

268,848. CERTAIN NAMED FANCY GOODS AND FURNISHINGS. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,776. PUBLISHED DECEMBER 31, 1929. Class 40.

268,849. CERTAIN NAMED WEARING APPAREL. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,775. PUBLISHED DECEMBER 31, 1929. Class 39.

268,850. TAILORED COVERS MADE OF LEATHER MANUFACTURED FROM SCRAPS OF REAL LEATHER. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,774. PUBLISHED DECEMBER 31, 1929. Class 32.

268,851. VALISES, SUITCASES, TRUNKS, ETC. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,773. PUBLISHED DECEMBER 31, 1929. Class 3.

268,852. TOILET CREAM. MERCK & CO., INC., Rahway, N. J.
Filed August 18, 1928. Serial No. 271,261. PUBLISHED DECEMBER 31, 1929. Class 6.

268,853. HEALING LINIMENT FOR USE AS A DOUCHE, MOUTH WASH, AND A BODY RUB. MITCHELL MEDICINE COMPANY, INC., Birmingham, Ala.
Filed August 8, 1928. Serial No. 270,752. PUBLISHED DECEMBER 31, 1929. Class 6.

268,854. LUBRICATING OILS AND GREASES. W. H. BARBER COMPANY, Minneapolis, Minn.
Filed August 6, 1928. Serial No. 270,622. PUBLISHED OCTOBER 16, 1928. Class 15.

268,855. SANITARY OIL FOR USE IN LINING DITCHES, FOR PREVENTING THE GROWTH OF VEGETATION, AND FOR MOSQUITO PREVENTION. THE TRINIDAD LAKE PETROLEUM COMPANY, LIMITED, Brighton, Trinidad, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Brighton, Trinidad, British West Indies, a Corporation of Trinidad, British West Indies.
Filed August 8, 1928. Serial No. 270,562. PUBLISHED DECEMBER 21, 1929. Class 6.

268,856. MAYONNAISE, CELERY SAUCE, SALAD DRESSING, AND SANDWICH SPREAD. H. and F. FOOD PRODUCTS CORPORATION, Buffalo, N. Y.
Filed July 31, 1928. Serial No. 270,376. PUBLISHED DECEMBER 24, 1929. Class 46.

268,857. FRESH APPLES. COLUMBIA-OKANOGAN ORCHARDS, INC., Brewster, Wash.
Filed July 5, 1928. Serial No. 269,089. PUBLISHED DECEMBER 31, 1929. Class 46.

268,858. TRAILERS, BOTH PASSENGER-CARRYING AND COMMERCIAL. THE AEROCAR CORPORATION, New York, N. Y.
Filed November 27, 1929. Serial No. 293,203. Class 19.

268,859. AUTOGENOUS CUTTING AND WELDING TORCHES, CUTTING AND WELDING MACHINES, ETC. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed July 29, 1929. Serial No. 287,802. PUBLISHED JANUARY 7, 1930. Class 34.

268,860. BASE-METAL COOKING MOULDS AND BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed June 24, 1929. Serial No. 286,059. PUBLISHED JANUARY 7, 1930. Class 13.

268,861. BASE-METAL COOKING MOULDS AND BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed June 24, 1929. Serial No. 286,058. PUBLISHED JANUARY 7, 1930. Class 13.

268,862. BASE-METAL COOKING MOULDS AND BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed June 24, 1929. Serial No. 286,057. PUBLISHED JANUARY 7, 1930. Class 13.

268,863. BASE-METAL COOKING MOULDS AND BAKING PANS. EDWARD KATZINGER COMPANY, Chicago, Ill.
Filed June 24, 1929. Serial No. 286,056. PUBLISHED JANUARY 7, 1930. Class 13.

268,864. DIETETIC FOODS FOR CONVALESCENTS. TROPONWERKE DINKLAGE & CO., Cologne, Mulheim, Germany.
Filed September 10, 1929. Serial No. 289,607. PUBLISHED DECEMBER 17, 1929. Class 46.

268,865. CANDY. FRANK W. METTLER, doing business as Honey Heart Candy Co., Helena, Mont.
Filed September 7, 1929. Serial No. 289,472. PUBLISHED JANUARY 7, 1930. Class 46.

268,866. WOVEN TEXTILE RUGS AND CARPETS. BIGELOW-HARTFORD CARPET COMPANY, Thompsonville, Conn., now by change of name Bigelow-Sanford Carpet Co., Inc.,
Filed September 6, 1929. Serial No. 289,386. PUBLISHED DECEMBER 31, 1929. Class 42.

268,867. CEREAL BREAKFAST FOODS ADAPTED ALSO FOR USE AS DESSERTS. ALVITA FOOD PRODUCTS INC., Boston, Mass.
Filed August 13, 1929. Serial No. 288,458. PUBLISHED DECEMBER 31, 1929. Class 46.

268,868. CANNED OLIVES. FLAVEL SHURTLEFF, doing business as Co-Operative Olive Producers Association, Los Angeles, Calif.
Filed August 12, 1929. Serial No. 288,441. PUBLISHED DECEMBER 31, 1929. Class 46.

268,869. COTTON WASH RAGS. STARR KITTING MILLS, INC., Pleasantville, N. J.
Filed July 19, 1929. Serial No. 287,381. PUBLISHED SEPTEMBER 24, 1929. Class 42.

268,870. SALAD DRESSING AND SANDWICH SPREAD. JOSEPH JOHN DAVILLA, doing business as Gold Ribbon Products Co., New Orleans, La.
Filed June 22, 1929. Serial No. 285,964. PUBLISHED JANUARY 7, 1930. Class 46.

268,871. CANNED VEGETABLES, CANNED SAUERKRAUT, CANNED SAUERKRAUT JUICE. TEXAS CANNING COMPANY, Laredo, Tex.
Filed June 18, 1929. Serial No. 285,536. PUBLISHED JANUARY 7, 1930. Class 46.

268,872. EXTERNAL MEDICINAL PREPARATION FOR A DUSTING POWDER FOR PRICKLY HEAT, NETTLE RASH, TENDER FEET, ETC. JOSEPH CLEMENT POWELL, doing business as Podolac Co., Charlotte, N. C.
Filed September 6, 1929. Serial No. 289,419. PUBLISHED DECEMBER 24, 1929. Class 6.

268,873. NATURAL HAIR RESTORER. LOUIS NATURAL HAIR RESTORER COMPANY, Jourdanton, Tex.
Filed September 4, 1929. Serial No. 289,319. PUBLISHED DECEMBER 17, 1929. Class 6.

268,874. HAIR RESTORER AND HAIR DYE. STEVE MARTIN, St. Louis, Mo.
Filed August 30, 1929. Serial No. 289,198. PUBLISHED DECEMBER 17, 1929. Class 6.

268,875. ANTISEPTIC MOSQUITO BALM. HILBERT A. RANDALL, doing business as Bi-Jo Specialty Co., Dallas, Tex.
Filed August 20, 1929. Serial No. 289,162. PUBLISHED DECEMBER 31, 1929. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

268,876. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. LASKIN & SONS, INC., New York, N. Y. Filed Sept. 15, 1928. Serial No. 272,502.

Laskin
EUROPEAN
LAMBSKIN

For Furs and Skins.
Claims use since July 20, 1928.

268,877. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. LASKIN & SONS, INC., New York, N. Y. Filed Sept. 15, 1928. Serial No. 272,501.

Laskin
AMERICAN
WOMBAT

For Furs and Skins.
Claims use since July 20, 1928.

268,878. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LYDIA BUSH-BROWN, New York, N. Y. Filed Feb. 1, 1930. Serial No. 295,458.

Silk-Murals

For Silk Wall Drapes.
Claims use since 1920.

268,879. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COGSWELL LABORATORIES, INC., Lowell, Mass. Filed Jan. 27, 1930. Serial No. 295,253.

COGSWELL'S
Not A
Blemish

For Skin Lotion.
Claims use since May 1, 1923.

268,880. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ZIV STEEL & WIRE COMPANY, Chicago, Ill. Filed Dec. 30, 1929. Serial No. 294,246.

ZIV'S SECTION "B" AUGER STEEL

For Drill and Tool Steel.
Claims use since September, 1921.

268,881. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ZIV STEEL & WIRE COMPANY, Chicago, Ill. Filed Dec. 30, 1929. Serial No. 294,245.

ZIV'S SECTION "A" AUGER STEEL

For Drill and Tool Steel.
Claims use since September, 1921.

268,882. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE CARPENTER STEEL COMPANY, Reading, Pa. Filed Dec. 30, 1929. Serial No. 294,206.

HAMPDEN

For Tool Steel in Bars, Billets, and Shapes.
Claims use since June 3, 1926.

268,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CUSHING GROCERY CO., Hastings, Nebr. Filed Dec. 17, 1929. Serial No. 293,771.

CUSHING
BRAND

For Canned Peas, Pineapple, Spinach, Salmon, Sweet Potatoes, Tomatoes, Apricots, Asparagus Tips, Pork and Beans, Blackberries, Cherries, Loganberries, Sugar Corn, Hominy, Pears, Beets, Beans, Sauerkraut, Corn, Oysters, Pumpkins, Peaches, and Tomato Catsup.
Claims use since Aug. 8, 1928.

268,884. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OMAHA COLD STORAGE COMPANY, Omaha, Nebr. Filed Dec. 14, 1929. Serial No. 293,682.

BEST MAKE

For Butter.
Claims use since 1910.

268,885. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J. Filed Oct. 19, 1928. Serial No. 274,022.

ONEIDA

For Shoes Made of Fabric and Rubber.
Claims use since Feb. 17, 1928.

268,886. (CLASS 39. CLOTHING.) VANDERBILT MILLS, INC., New York, N. Y. Filed Nov. 10, 1928. Serial No. 275,140.

VANDERBILT

For Men's and Boys' Collars, Pajamas, Night Robes, Underwear of Textile Fabric; Dress, Negligee, and Work Shirts; and Necktles.
Claims use since Sept. 15, 1928.

268,887. (CLASS 39. CLOTHING.) SARAH E. B. SHEPARD, Lowell, Mass. Filed Dec. 3, 1928. Serial No. 276,223.

Windaround
Miker

For Textile Garment Consisting of a New Type of Ladies' Underwear in the Nature of a Combination Bloomer, Vest, and Girdle.
Claims use since Nov. 1, 1928.

268,888. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN MATCH CO., San Francisco, Calif. Filed Jan. 19, 1929. Serial No. 278,198.

PIGGLY WIGGLY

For Matches.
Claims use since Dec. 28, 1928.

268,889. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SPORTWEAR ATTIRE CORP., New York, N. Y. Filed Jan. 25, 1929. Serial No. 278,442.

KORDUROY WALE

For Knitted Fabrics Made of Yarn, Cotton, Silk, and Rayon and Combinations of the Same in the Piece.
Claims use since Jan. 1, 1929.

268,890. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AARON ROSS, New York, N. Y. Filed Feb. 1, 1929. Serial No. 278,751.

JUST WASH

For Skin Conditioner and Make-Up Remover.
Claims use since October, 1928.

268,891. (CLASS 17. TOBACCO PRODUCTS.) GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed Feb. 16, 1929. Serial No. 279,465.

AUSTRIAREGIE

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since Sept. 11, 1928.

268,892. (CLASS 17. TOBACCO PRODUCTS.) GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed Feb. 16, 1929. Serial No. 279,466.

AUSTROREGIE

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since Sept. 11, 1928.

268,893. (CLASS 17. TOBACCO PRODUCTS.) GENERAL-DIREKTION DER ÖSTERR. TABAKREGIE, Vienna, Austria. Filed Feb. 16, 1929. Serial No. 279,467.

AUSTRIA-REGIE

For Chewing, Smoking, Snuffing Tobaccos, Cigars, and Cigarettes.
Claims use since Sept. 11, 1928.

268,894. (CLASS 39. CLOTHING.) NEW ERA SHIRT COMPANY, St. Louis, Mo. Filed Feb. 25, 1929. Serial No. 279,866.

EVER-SET

For Collars.
Claims use since about Jan. 2, 1929.

268,895. (CLASS 39. CLOTHING.) M. FINE & SONS, New York, N. Y. Filed Feb. 27, 1929. Serial No. 280,019.

My-T-Fine

For Adults' Negligee and Children's Shirts, Work Shirts, and Men's Underwear of Textile Fabric.
Claims use since Jan. 15, 1929.

268,896. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MERKLE COFFEE COMPANY, Columbus, Ohio. Filed Mar. 11, 1929. Serial No. 280,558.

MERKLE

There is a Saving Use ¼ Less in making

COFFEE

For Coffee.
Claims use since Feb. 23, 1926.

268,897. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHARLES ARNAO COMPANY, Minneapolis, Minn. Filed Apr. 26, 1929. Serial No. 283,025.

EVENDRY JR

For Electrical Hair Driers.
Claims use since on or about Sept. 1, 1928.

268,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. C. BOOTH, doing business as B & W Company, Sacramento, Calif. Filed Apr. 30, 1929. Serial No. 283,253.

BOOTH'S
NO BLAIN

For a Medicinal Preparation for Treating Chilblains.
Claims use since Jan. 1, 1919.

268,899. (CLASS 2. RECEPTACLES.) GRAHAM PAPER COMPANY, St. Louis, Mo. Filed June 24, 1929. Serial No. 286,049.

SAFE T CANS

For Paper Cans Commonly Employed for Delivering Food Products.
Claims use since Dec. 15, 1928.

268,900. (CLASS 39. CLOTHING.) THE BLUM STORE, Philadelphia, Pa. Filed July 26, 1929. Serial No. 287,691.

The Blum Store

For Women's and Misses', Juniors' and Children's Suits, Coats, Dresses, Wraps, Capes, Gowns, Raincoats, Trimmed and Untrimmed Hats, Hosiery, Shoes Constructed of Leather, Rubber or Fabric, or Combinations of These Materials, Knitted and Textile Underwear, Negligees, Slips, Chemises, Underdrawers, Panties, Vests for Underwear, Brassières, and Women's and Misses' Bloomers, Sweaters, Shirts for Underwear, Corsets, and Bathing Suits.
Claims use since Oct. 6, 1914.

268,901. (CLASS 39. CLOTHING.) FOREST CITY MFG. CO., St. Louis, Mo. Filed July 27, 1929. Serial No. 287,747.

Peggy Palmer

For Women's and Girls' Washable Dresses.
Claims use since Aug. 1, 1924.

268,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAROLINA CHEMICAL COMPANY, Union, S. C. Filed July 29, 1929. Serial No. 287,839.

Owen's OIL

For Liniment for the Treatment of Swollen Joints, Stiff Joints, Neuralgia, Stiff Neck, Tonsilitis, Bronchial Cough, Pleurisy, Croup, Sprains, Bruises, Lumbago, Cramps, Arthritis, Colds, Influenza, Asthma, Earache, Toothache, Infantile Paralysis.
Claims use since Apr. 25, 1926.

268,903. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BREWER-TITCHENER CORPORATION, Cortland, N. Y. Filed Oct. 5, 1929. Serial No. 290,688.

Rumbletop

For Vehicle Tops.
Claims use since 1928.

268,904. (CLASS 39. CLOTHING.) MANOLIS MANUFACTURING CO., Chicago, Ill. Filed Nov. 9, 1929. Serial No. 292,218.

IDEAL

For Overgaiters and Spats.
Claims use since March, 1919.

268,905. (CLASS 39. CLOTHING.) NORTON BROS. AND MORRIS, Los Angeles, Calif. Filed Nov. 25, 1929. Serial No. 292,892.

Reel Hollywood Style

For Dress Shirts, Lumberjackets, and Blazers for Men and Boys.
Claims use since Feb. 1, 1928.

268,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WOLFF & OWENS, Hamilton, Ind. Filed Dec. 3, 1929. Serial No. 293,202.

PERFECTION

For Fresh Potatoes and Onions.
Claims use since September, 1921.

268,907. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CARL W. FORD, Chicago, Ill. Filed Aug. 9, 1929. Serial No. 288,325.

SHURSTART

For Electric Storage Batteries.
Claims use since about Jan. 1, 1929.

268,908. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FROMM BROS., INC., Hamburg, Wis. Filed June 20, 1929. Serial No. 285,853.

FROMM
Pedigreed
SILVER
FOX

For Raw Fox Pelts.
Claims use since Jan. 1, 1929.

268,909. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE COOPER CORPORATION, Cincinnati, Ohio. Filed Oct. 14, 1929. Serial No. 291,051.

Cooper

For Storage Batteries.
Claims use since October, 1919.

268,910. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WOONSOCKET MACHINE & PRESS COMPANY INCORPORATED, Woonsocket, R. I. Filed July 5, 1928. Serial No. 269,167.

TRAKE THE TAD

For Textile Machinery—Namely, Fiber Conveying and Distributing Machinery Accessory to Textile-Machinery Operation.
Claims use since about Dec. 19, 1927.

268,911. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLANKE BAER EXTRACT & PRESERVING COMPANY, St. Louis, Mo. Filed Aug. 8, 1928. Serial No. 270,737.

NUTKOTE

For Ice-Cream Bars and Coating Therefor.
Claims use since Aug. 1, 1928, on coating; Aug. 2, 1928, on ice-cream bar.

268,912. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BROWN DURRELL CO., Boston, Mass. Filed Nov. 29, 1929. Serial No. 293,026.

Lasell

For Dress Shields and Elastic Tape.
Claims use since about Feb. 1, 1927.

268,913. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SLIP-NOT BELTING CORPORATION, Kingsport, Tenn. Filed Dec. 6, 1929. Serial No. 293,354.

SLIP-NOT

THE BELT WITH THE CATERPILLAR GRIP

For Laminated Belting Composed of Leather, Woven Fabric, and Cementing Material.
Claims use since January, 1921.

268,914. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOSEPH FLEISCHER, doing business as Fleischer & Co., New York, N. Y. Filed Dec. 9, 1929. Serial No. 293,421.

FITWELL

For Combs not Made of Precious Metal.
Claims use since September, 1917.

268,915. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) THE SALEM POTTERY CO., Salem, Ohio. Filed Dec. 10, 1929. Serial No. 293,489.

ANTIQUE IVORY

For Chinaware or Pottery—Namely, Plates, Cups, Saucers, Platters, Casseroles, Cake and Berry Sets.
Claims use since July, 1927.

268,916. (CLASS 15. OILS AND GREASES.) IOWA AUTO MARKET, INC., Des Moines, Iowa. Filed Dec. 12, 1929. Serial No. 293,584.

"EASY SHIFT"

For Lubricating Oils for Automobiles and Other Mechanical Devices.
Claims use since Sept. 1, 1928.

268,917. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRANDYWINE FIBRE PRODUCTS COMPANY, Wilmington, Del. Filed Jan. 8, 1930. Serial No. 294,499.

"BRANDYWINE FIBRE"

For Flash-Light and Fuse Casings Formed of Vulcanized Hard Fibre Tubing.
Claims use since September, 1917.

268,918. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PORTO RICO PALE DRY CO., Philadelphia, Pa. Filed Jan. 15, 1930. Serial No. 294,824.

PORTO RICO

For Ginger Ale and Root Beer.
Claims use since Jan. 15, 1928.

268,919. (CLASS 2. RECEPTACLES.) THE THOMAS & ARMSTRONG COMPANY, London, Ohio. Filed Jan. 11, 1930. Serial No. 294,833.

COPPER=IZED

For Metal Silo.
Claims use since Jan. 1, 1924.

268,920. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES B. STUART, doing business as Deep Point Canning Co., Stratford, Va. Filed Jan. 16, 1930. Serial No. 294,860.

STRATFORD

For Canned Tomatoes.
Claims use since Aug. 12, 1925.

268,921. (CLASS 39. CLOTHING.) PHOENIX HOSIERY COMPANY, Milwaukee, Wis. Filed June 17, 1929. Serial No. 285,686.

Barbara Newberry

For Hosiery.
Claims use since Jan. 1, 1929.

268,922. (CLASS 37. PAPER AND STATIONERY.) STANDARD PRODUCTS CORPORATION, New York, N. Y. Filed Dec. 2, 1927. Serial No. 288,859.

FRANKLIN

For Tissue Paper.
Claims use since about September, 1912.

268,923. (CLASS 15. OILS AND GREASES.) RIO GRANDE OIL COMPANY, Los Angeles, Calif. Filed June 3, 1929. Serial No. 284,998.

RIO GRANDE

For Gasoline, Kerosene, Petroleum Distillate for Fuel Purposes, and Motor-Fuel Oil and Furnace-Fuel Oil.
Claims use since January, 1926.

268,924. (CLASS 39. CLOTHING.) BEST SHIRT COMPANY, New York, N. Y. Filed May 17, 1929. Serial No. 284,158.

Beresford BROAD CLOTH

For Dress Shirts.
Claims use since July 15, 1928.

268,925. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) W. ATLEE BURPEE CO., Philadelphia, Pa. Filed May 9, 1929. Serial No. 283,715.

Seeds That Grow

For Seeds.
Claims use since July 14, 1911.

268,926. (CLASS 39. CLOTHING.) THE GOODMATE CO., INC., Philadelphia, Pa. Filed May 8, 1929. Serial No. 283,451.

FAIRMOUNT

For Men's Overcoats and Topcoats.
Claims use since Jan. 15, 1929.

268,927. (CLASS 39. CLOTHING.) EDNA S. WARD, New York, N. Y. Filed Apr. 26, 1929. Serial No. 288,070.

CHIC

For Bathing Shoes.
Claims use since September, 1928.

268,928. (CLASS 31. FILTERS AND REFRIGERATORS.) BIRDSONG & SHOWERS, Vernon, Tex. Filed Apr. 18, 1929. Serial No. 282,876.

Kooldaire

For Vegetable Cooler and Display Stand, Equipped with a Ten-Inch Fan, a Water Tank, and a Motor and Pump, All Used to Circulate Moist Air.
Claims use since Jan. 1, 1928.

268,929. (CLASS 37. PAPER AND STATIONERY.) NORTH STAR STRAWBOARD MILLS, Quincy, Ill. Filed Mar. 2, 1929. Serial No. 280,189.

STRAWKRAFT

For Strawboard.
Claims use since Feb. 6, 1929.

268,930. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) INTERNATIONAL RESISTANCE COMPANY, Philadelphia, Pa. Filed Feb. 26, 1929. Serial No. 279,921.

DURHAM

For Electrical Resistors for Use in the Control of Electrical Currents in Circuits and Particularly in Signalling Apparatus.
Claims use since May, 1922.

268,931. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CENTURY RIBBON MILLS, INC. (ERNEST & HERMAN LEVY), New York, N. Y. Filed Feb. 15, 1929. Serial No. 279,380.

TenCenter

For Ribbons in Cut Lengths.
Claims use since December, 1928.

268,932. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE STANDARD STOKER COMPANY, INC., New York, N. Y. Filed Feb. 6, 1929. Serial No. 278,958.

STANDARD STOKERS

For Stokers and Repair Parts Thereof Used with Locomotives and Other Steam Boilers.
Claims use since Jan. 20, 1929.

268,933. (CLASS 39. CLOTHING.) U-PROFIT CAP MFG. CO., INC., Linden, N. J. Filed Feb. 5, 1929. Serial No. 278,916.

RIPRUF

For Men's and Boys' Caps.
Claims use since about Jan. 15, 1929.

268,934. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORWIN W. HOLIBAUGH, Jamaica, N. Y. Filed Feb. 4, 1929. Serial No. 278,838.

Corwins

GOLDEN BROWN WAFFLE FLOUR

For Waffle Flour.
Claims use since Jan. 21, 1929.

268,935. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE EDWIN F. GUTH COMPANY, St. Louis, Mo. Filed Jan. 29, 1929. Serial No. 278,593.

GUTH-FAN

For Electric Fans.
Claims use since Oct. 10, 1928.

268,936. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE SWINEHART TIRE AND RUBBER COMPANY, Akron, Ohio. Filed Dec. 17, 1928. Serial No. 276,867.

CUSTOM BUILT

For Tires Made Wholly or Partly of Rubber.
Claims use since Dec. 1, 1928.

268,937. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BISHOP & BABCOCK MFG. CO., Cleveland, Ohio. Filed Oct. 11, 1928. Serial No. 273,627.

MASSACHUSETTS

For Electric Fans, Blowers, and Electric Motors Therefor.
Claims use since on or about Jan. 1, 1907.

268,938. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIERRA VISTA PACKING ASSOCIATION, Riverside, Calif. Filed July 13, 1927. Serial No. 251,994.

KENILWORTH

For Fresh Oranges, Lemons, and Grapefruit.
Claims use since Jan. 2, 1909.

TRADE-MARK REGISTRATIONS RENEWED

32,434. BOOTS AND SHOES AND SOLES AND UPPERS FOR SAME. Registered January 31, 1899. STRONG & GARFIELD CO., Portland, Me., and Boston, Mass. Renewed January 31, 1929, to Jeremiah Fitzpatrick, doing business as George Strong Company, East Weymouth, Mass., successor.

32,854. CARBON RODS FOR ELECTRICAL PURPOSES. Registered May 9, 1899. Actiengesellschaft für Fabrikation von Kohlenstiften, vormals F. Hardtmuth & Co., Ratibor, Germany. Renewed May 9, 1929, to Siemens-Planiawerke A. G. für Kohlefabrikate, Berlin-Lichtenberg, Germany, a Corporation of Germany, successor.

33,753. CHARCOAL. Registered November 14, 1899. CHEMICAL CHARCOAL COMPANY, Buffalo, N. Y., a Corporation of New York. Renewed November 14, 1929.

34,103. MEDICAL COMPOUND FOR CERTAIN NAMED DISEASES. Registered January 30, 1900. J. LEE CROCE CO. Renewed January 30, 1930, to Swamp & Dixie Laboratories, Inc., Fort Smith, Ark., a Corporation of Arkansas, successor.

34,148. BUTTER. Registered February 6, 1900. THE FOX RIVER BUTTER COMPANY, Aurora and Oswego, Ill. Renewed February 6, 1930, to Beatrice Creamery Company, Chicago, Ill., a Corporation of Delaware, assignee.

34,150. WHEAT-FLOUR. Registered February 6, 1900. PHOENIX FLOUR MILL, Evansville, Ind. Renewed February 6, 1930, to Igleheart Brothers, Incorporated, New York, N. Y., a Corporation of Delaware, assignee.

34,157. LIQUID COMPOUND FOR FIXING COLORS OF DYED FIBERS AND FABRICS. Registered February 6, 1900. LOUIS B. FORTNER, Philadelphia, Pa. Renewed February 6, 1930.

34,209. PENS. Registered February 20, 1900. PERRY & COMPANY, LIMITED, Birmingham, England, a Corporation of Great Britain. Renewed February 20, 1930.

34,242. FOOD FOR INFANTS AND INVALIDS. Registered February 27, 1900. FAIRCHILD BROS. & FOSTER, Elizabeth, N. J., and New York, N. Y. Renewed February 27, 1930, to Fairchild Bros. & Foster, New York, N. Y., a Corporation of New York, successor.

34,265. HARNESS AND SADDLERY. Registered February 27, 1900. DODSON, FISHER, BROCKMANN COMPANY. Renewed February 27, 1930, to Dodson-Fisher Co., Minneapolis, Minn., a Corporation of Delaware, assignee.

34,335. SYRUPS AND MOLASSES. Registered March 20, 1900. THE TOWLE SYRUP COMPANY, St. Paul, Minn. Renewed March 20, 1930, to The Log Cabin Products Company, New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

34,414. SUBSTANCES USED AS FOOD OR AS INGREDIENTS IN FOOD, SUCH AS MEAT EXTRACT, ETC. Registered April 3, 1900. LIEBIG'S EXTRACT OF MEAT COMPANY, LIMITED, London, England, and Fray Bentos, Uruguay. Renewed April 3, 1930, to Oxo, Limited, London, England, a Corporation of Great Britain, assignee.

34,517. TYPEWRITER RIBBONS. Registered April 24, 1900. MITTAG & VOLGER. Renewed April 24, 1930, to Mittag & Volger, Incorporated, Park Ridge, N. J., a Corporation of New Jersey, assignee.

34,518. TYPEWRITER RIBBONS AND CARBON PAPERS. Registered April 24, 1900. MITTAG & VOLGER. Renewed April 24, 1930, to Mittag & Volger, Incorporated, Park Ridge, N. J., a Corporation of New Jersey, assignee.

34,668. CERTAIN NAMED BAKERY PRODUCTS. Registered May 22, 1900. FLEISCHMANN'S VIENNA MODEL BAKERY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed May 22, 1930.

34,706. CERTAIN NAMED MEDICAL COMPOUNDS. Registered May 29, 1900. BENNO, JAFFÉ & DARMSTAEDTER, Martinikenfelde, Germany. Renewed May 29, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee, by mesne assignments.

34,741. METABOLIC PRODUCT OF TUBERCLE BACILLI. Registered June 5, 1900. THE FIRM OF E. MERCK, Darmstadt, Germany. Renewed June 5, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee, by mesne assignments.

34,742. HÆMOGLOBIN PREPARATIONS. Registered June 5, 1900. FRIEDRICH GUSTAV SAUER, Berlin, Germany. Renewed June 5, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee, by mesne assignments.

34,777. CANNED OR PRESERVED FRUITS AND VEGETABLES. Registered June 12, 1900. EDWARD V. STOCKHAM, Perryman, Md. Renewed June 12, 1930, to Edward V. Stockham, Inc., Havre de Grace, Md., a Corporation of Maryland, assignee.

34,937. CAVIAR AND PRESERVED FISH. Registered July 24, 1900. HANSEN & DIECKMANN. Renewed July 24, 1930, to John Dieckmann, doing business as Hansen & Dieckmann, New York, N. Y., successor.

71,420. HOSIERY. Registered November 24, 1908. A. B. ANDREWS COMPANY. Renewed November 24, 1928, to Peter V. Sherwood, New York, N. Y., assignee, by mesne assignments.

76,013. SUITINGS, SHIRTINGS, AND SHEETINGS. Registered December 7, 1909. L. S. BAUMGARDNER & COMPANY. Renewed December 7, 1929, to Baumgardner & Co., Toledo, Ohio, a Partnership, successor.

76,104. FISHLINES. Registered December 14, 1909. CHAFFEE MANUFACTURING COMPANY. Renewed December 14, 1929, to J. D. Chaffee, doing business as The Chaffee Manufacturing Company, Willimantic, Conn., successor.

76,569. CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR. Registered February 1, 1910. J. T. CLAY & SONS, LIMITED, Rastrick, England, a Corporation of Great Britain. Renewed February 1, 1930.

76,663. CALCIMINE. Registered February 8, 1910. ADAMS & ELTING COMPANY, Chicago, Ill. Renewed February 8, 1930, to The Glidden Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

76,664. CALCIMINE. Registered February 8, 1910. ADAMS & ELTING COMPANY, Chicago, Ill. Renewed February 8, 1930, to The Glidden Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

76,815. CERTAIN FOOD. Registered February 15, 1910. THE LIPPINCOTT COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed February 15, 1930.

77,150. LUBRICATING OILS. Registered March 15, 1910. INDIAN REFINING COMPANY, INC., Augusta, Me., and Cincinnati, Ohio. Renewed March 15, 1930, to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey, assignee.

77,177. EFFERVESCENT GRANULAR SALTS FOR ELIMINATION OF URIC ACID. Registered March 15, 1910. THE MU-COL COMPANY, Buffalo, N. Y., a Corporation of Rhode Island. Renewed March 15, 1930.

77,178. PICKLING AND BAITING SUBSTANCES USED IN TANNING. Registered March 15, 1910. RÖHM & HAAS, Esslingen, Germany. Renewed March 15, 1930, to Rohm & Haas Company, Philadelphia, Pa., a Corporation of Delaware, assignee.

77,330. DRESS, WORK, AND NEGLIGÉE SHIRTS AND UNDERSHIRTS. Registered March 29, 1910. RAUH BROS. & COMPANY, Pittsburgh, Pa. Renewed March 29, 1930.

77,401. STEEL. Registered April 5, 1910. J. J. SAVILLE & Co. LIMITED, Sheffield, England, an Incorporated Company of Great Britain. Renewed April 5, 1930.

77,411. STONEWARE, CROCKERY, AND EARTHENWARE. Registered April 5, 1910. WESTERN STONEWARE CO., Portland, Me., and Monmouth, Ill. Renewed April 5, 1930, to Western Stoneware Company, Monmouth, Ill., a Corporation of Maine.

77,420. STEEL. Registered April 5, 1910. J. J. SAVILLE & Co. LIMITED, Sheffield, England, an Incorporated Company of Great Britain. Renewed April 5, 1930.

77,628. BAKING POWDER. Registered April 26, 1910. F. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo., a Corporation of Illinois. Renewed April 26, 1930.

77,630. STEAM AND WATER VALVES. Registered April 26, 1910. THE FAIRBANKS COMPANY, New York, N. Y., a Corporation of New Jersey. Renewed April 26, 1930.

77,634. WATER-METERS. Registered April 26, 1910. ERNEST B. GAMON. Renewed April 26, 1930, to Gamon Meter Company, Newark, N. J., a Corporation of New Jersey, successor.

77,711. WATCHES AND WATCH MOVEMENTS. Registered May 3, 1910. HIPP. DIDISHEIM & BRO. Renewed May 3, 1930, to Hipp. Didisheim Co. Inc., New York, N. Y., a Corporation of New York, successor.

77,790. LINOLEUM. Registered May 10, 1910. BREMER LINOLEUMWERKE DELMENHORST, Delmenhorst, Germany. Renewed May 10, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

77,890. CANDIES KNOWN AS WILD-CHERRY DROPS. Registered May 17, 1910. ADVANCE NOVELTY CANDY MANUFACTURING COMPANY. Renewed May 17, 1930, to Advance Candy Co., Inc., New York, N. Y., a Corporation of New York, successor.

77,916. MONTHLY MAGAZINES. Registered May 17, 1910. GOOD HEALTH PUBLISHING COMPANY, Battle Creek, Mich., a Corporation of Michigan. Renewed May 17, 1930.

77,982. BEER. Registered May 17, 1910. LOS ANGELES BREWING CO., Los Angeles, Calif., a Corporation of California. Renewed May 17, 1930.

78,020. TEAS. Registered May 24, 1910. PARK & TILFORD, New York, N. Y., a Corporation of New York. Renewed May 24, 1930.

78,065. AN ANTISEPTIC MOUTH WASH. Registered May 31, 1910. CHEMISCHE WERKE VORM. DR. HEINRICH BYK, Berlin, Germany. Renewed May 31, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

78,217. FRESH FRUITS. Registered May 31, 1910. E. G. AND A. H. VIVELL, Rio Piedras, Porto Rico. Renewed May 31, 1930.

78,221. SHUTTER FASTENERS. Registered May 31, 1910. G. F. S. ZIMMERMAN & COMPANY. Renewed May 31, 1930, to The G. F. S. Zimmerman Co., Inc., Frederick, Md., a Corporation of Maryland, successor.

78,434. CERTAIN KNIT GARMENTS. Registered June 14, 1910. MINNEAPOLIS KNITTING WORKS, Minneapolis, Minn., a Corporation of Minnesota. Renewed June 14, 1930.

78,439. A MONTHLY PERIODICAL. Registered June 14, 1910. OSWALD PUBLISHING COMPANY. Renewed June 14, 1930, to The American Printer, Inc., New York, N. Y., a Corporation of New York, by change of name.

78,457. AUTOMOBILES. Registered June 14, 1910. SELDEN MOTOR VEHICLE CO., Rochester, N. Y. Renewed June 14, 1930, to Selden Truck Corporation, Allentown, Pa., a Corporation of New York, assignee.

78,598. TABLETS AND CAPSULES OF MEDICAMENTS. Registered June 28, 1910. FARBWERKE VORM. MEISTER LUCIUS & BRÜNING, Höchst-on-the-Main, Germany. Renewed June 28, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

78,617. A MEDICINAL PREPARATION. Registered June 28, 1910. KARL AUGUST LINGNER, Dresden, Germany. Renewed June 28, 1930, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

78,649. TOILET PREPARATIONS. Registered June 28, 1910. JEAN SÉNÉGAS, New York, N. Y. Renewed June 28, 1930.

78,703. WIRE STRAIGHTENING AND CUTTING-OFF MACHINES. Registered July 5, 1910. THE FRANKLIN MANUFACTURING COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed July 5, 1930.

78,754. RIVETING MACHINES. Registered July 5, 1910. THE F. B. SHUSTER COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed July 5, 1930.

78,755. RIVETING MACHINES. Registered July 5, 1910. THE F. B. SHUSTER COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed July 5, 1930.

78,756. RIVETING MACHINES. Registered July 5, 1910. THE F. B. SHUSTER COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed July 5, 1930.

78,828. BAKING POWDER. Registered July 12, 1910. ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y. Renewed July 12, 1930, to Royal Baking Powder Company, New York, N. Y., a Corporation of New Jersey.

78,890. WOVEN AND PRINTED SILKS IN PIECE GOODS. Registered July 19, 1910. M. C. MIGEL & COMPANY. Renewed July 19, 1930, to H. R. Mallinson & Co. Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

78,975. ADVERTISING SIGNS. Registered July 26, 1910. INGRAM-RICHARDSON MANUFACTURING CO., Beaver Falls, Pa., a Corporation of Pennsylvania. Renewed July 26, 1930.

79,011. GOLF BALLS. Registered July 26, 1910. ST. MUNGO MANUFACTURING COMPANY, Glasgow, Scotland. Renewed July 26, 1930, to St. Mungo Manufacturing Company of America, Newark, N. J., a Corporation of New Jersey, assignee.

LABELS

REGISTERED MARCH 18, 1930

37,249.—*Title:* KRO-KLING. For Paints. THE ALLENTOWN PAINT MANUFACTURING CO., Allentown, Pa. Published September 1, 1929.

37,250.—*Title:* BIGEOIL FOR ATHLETIC AND FAMILY USE. For a Medical Oil Suitable for Human Beings and Animals Intended for External Use. BEGELOW-CLARK, INC., New York, N. Y. Published September 14, 1929.

37,251.—*Title:* E-A-P PEWTER, EARLY AMERICAN PEWTEN COMPANY. For Pewter. EARLY AMERICAN PEWTER CO., Boston, Mass. Published January 2, 1929.

37,252.—*Title:* PEARL CREAM. For Face Cream. ELSNERS PEARL CREAM CO., Chicago, Ill. Published June 1, 1929.

37,253.—*Title:* DR. WHITES HYGENIC POWDER. For Powder for Personal Hygienic Use. FIRST NATIONAL LABORATORIES INC., Lehighton, Pa. Published January 9, 1930.

37,254.—*Title:* DR. WHITES HEM-O-RO LIQUID PILE MEDICINE. For Medicine. FIRST NATIONAL LABORATORIES INC., Lehighton, Pa. Published January 9, 1930.

37,255.—*Title:* DR. WHITES HEM-O-RO PILE PILLS. For Medicine. FIRST NATIONAL LABORATORIES INC., Lehighton, Pa. Published January 9, 1930.

37,256.—*Title:* DR. WHITES HEM-O-RO PILE TREATMENT. For Medicine. FIRST NATIONAL LABORATORIES INC., Lehighton, Pa. Published October 11, 1929.

37,257.—*Title:* DR. WHITES HEM-O-RO LIQUID PILE MEDICINE. For Medicine. FIRST NATIONAL LABORATORIES INC., Lehighton, Pa. Published December 18, 1929.

37,258.—*Title:* DR. WHITES HYGENIC POWDER. For Powder for Personal Hygiene. FIRST NATIONAL LABORATORIES INC., Lehighton, Pa. Published January 9, 1930.

37,259.—*Title:* SAVIGNE DOUBLE DIPPED RAISINS. For Chocolate-Covered Raisins. GENERAL NUT CO., Chicago, Ill. Published February 1, 1930.

37,260.—*Title:* SAVIGNE DOUBLE DIPPED JUMBO PEANUTS. For Chocolate-Covered Peanuts. GENERAL NUT CO., Chicago, Ill. Published February 1, 1930.

37,261.—*Title:* GOLD BOND. For Baby Powder. GOLD BOND STERILIZING POWDER CO. INC., Fairhaven, Mass. Published January 15, 1908.

37,262.—*Title:* FRESHBAKE. For Bread. THE GRAND UNION COMPANY, New York, N. Y. Published February 21, 1928.

37,263.—*Title:* ANTIKAUMA. For a Salve. GREEK BURN REMEDY CO., New York, N. Y. Published December 20, 1929.

37,264.—*Title:* PLAY TAPE FOR THE KIDDIES. For Gummed Paper. THE GUMMED PRODUCTS CO., Troy, Ohio. Published December 17, 1929.

37,265.—*Title:* T. B. K. LINIMENT. For Liniment. MRS. M. A. HAMMOND, Woodward, Okla. Published June 20, 1928.

37,266.—*Title:* GLOBE WHITE LIME FINISH. For Polishing Abrasive. HANSON-VAN WINKLE-MUNNING CO., Matawan, N. J. Published February 3, 1930.

37,267.—*Title:* DIXIE DUKE'S FAMOUS HAMBURGS. For Sandwiches. FRANK T. HELMS, San Diego, Calif. Published December 15, 1929.

37,268.—*Title:* KASPER'S SIP OF GOLD COFFEE. For Coffee. A. J. KASPER COMPANY, Chicago, Ill. Published February 3, 1930.

37,269.—*Title:* MONTANA SAPPHIRE BREAD. For Bread. MONTANA FLOUR MILLS COMPANY, Great Falls, Mont. Published December 19, 1929.

37,270.—*Title:* ZANZA-GUM. For Chewing Gum. NATIONAL PEPSIN GUM COMPANY, San Francisco, Calif. Published September 21, 1929.

37,271.—*Title:* SHINE PROOF. For Garments. THE NAVYTONE CO., Philadelphia, Pa. Published October 8, 1929.

37,272.—*Title:* SUE-PREME. For Fresh Grapes. RICHMAN & SAMUELS INC., New York, N. Y. Published July 30, 1929.

37,273.—*Title:* FOOTBALL BREAD. For Bread. M. RONZONE, doing business as Sweetheart Baking Company, Elkhart, Ind. Published November 1, 1929.

37,274.—*Title:* SCHAUB'S DIXIE BRAND PRODUCTS. For Potato Chips. ARNOLD A. SCHAUB, Buffalo, N. Y. Published July 24, 1929.

37,275.—*Title:* SENORITA HOSIERY. For Hosiery. SENORITA HOSIERY COMPANY, Dallas, Tex. Published November 8, 1929.

37,276.—*Title:* RONN DYKAREE. For Flavoring Sirups and Sauces. J. CEDERLUNDS SONER, Stockholm, Sweden. Published January 3, 1930.

PRINTS

REGISTERED MARCH 18, 1930

12,450.—*Title:* CHAMPION HARDWARE FOR BETTER BUILDINGS. For Hardware. THE CHAMPION HARDWARE CO., Geneva, Ohio. Published February 28, 1930.

12,451.—*Title:* LA FRANCE. For Hosiery. MARSHALL FIELD & Co., Chicago, Ill. Published January 3, 1930.

12,452.—*Title:* EL PRODUCTO FOR REAL ENJOYMENT. For Cigars. G. H. P. CIGAR CO. INC., Philadelphia, Pa. Published January 6, 1930.

12,453.—*Title:* COFFEE FRESH AS THE DAWN. For Coffee. MANNINGS, INC., San Francisco, Calif. Published December 23, 1929.

12,454.—*Title:* DRINK MOXIE DISTINCTIVELY DIFFERENT. For Beverages. THE MOXIE COMPANY OF AMERICA, Boston, Mass. Published December 15, 1929.

12,455.—*Title:* FRANK ARCHER SAYS—MOXIE IS THE BEST DRINK IN THE WORLD. For Beverages. THE MOXIE COMPANY OF AMERICA, Boston, Mass. Published December 15, 1929.

12,456.—*Title:* THE NEW AND BETTER SUSPENDERS. For Suspenders. WALTER SCHNABEL, New York, N. Y. Published February 6, 1930.

REISSUES

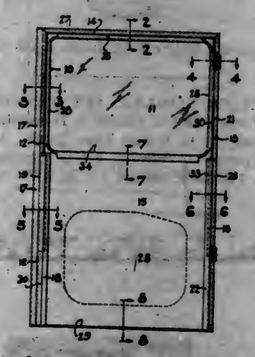
MARCH 18, 1930

17,622. MARCEL WAVER. ANNA J. JANDA, Chicago, Ill., assignor to John J. Ryan, Chicago, Ill. Filed Nov. 15, 1928. Serial No. 319,535. Original No. 1,615,702, dated Jan. 25, 1927, Serial No. 118,978, filed June 5, 1926. 8 Claims. (Cl. 132—38.)



1. A hair marcelling device including a head-gear defining a front frame member formed of a resilient wire and defining a portion extending in serpentine formation, interior frame members formed of resilient wire having corresponding end portions connected to the serpentine formation part of the front frame member, said front frame member including a portion extending in circular direction rearwardly of the serpentine formation portion and having an end portion connected to the opposite end portion of the front frame member, the opposite corresponding end portions of the interior frame members being connected to the circular portion of the front frame member.

17,623. DOOR FOR AUTOMOBILE BODIES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 29, 1929. Serial No. 367,109. Original No. 1,663,519, dated Mar. 20, 1928, Serial No. 80,797, filed Jan. 12, 1926. 9 Claims. (Cl. 296—44.)



1. In a pressed metal automobile door, in combination, a pair of pressed metal side rails, inwardly-extending integral tabs at the tops of said side rails, and a top rail having its ends seated under and secured to said inwardly-extending tabs.

17,624. HARD-METAL ALLOY AND THE PROCESS OF MAKING SAME. KARL SCHRÖTER, Lichtenberg, near Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed July 22, 1929. Serial No. 380,249. Original No. 1,549,615, dated Aug. 11, 1925, Serial No. 672,014, filed Oct. 31, 1923. 18 Claims. (Cl. 75—1.)

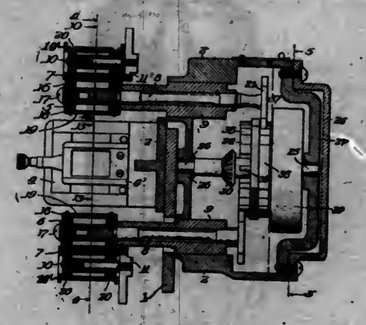
1. A hard metal alloy comprising a carbide of tungsten, the carbon content of which ranges from 8 to 10% of the carbide, said alloy having, in addition, a metal of a considerably lower melting point than the carbide, said metal forming not more than 10% of the alloy.

17,625. CINEMATOGRAPH FILM. ALBERT HENRY SMITH, Birmingham, England. Filed May 21, 1929. Serial No. 364,922. Original No. 1,674,528, dated June 19, 1928, Serial No. 116,928, filed June 18, 1926, and in Great Britain June 3, 1926. 11 Claims. (Cl. 88—19.5.)



1. In a device of the class described, a film having driving wheel perforations arranged in a longitudinal line adjacent to one edge of the film, and a reinforcing strip on one surface of the film and extended longitudinally of the film, the strip being provided with perforations registering with the perforations of the film, the material freed in the formation of the perforations of the strip being fashioned into tongues which are extended through the perforations of the film and overlapped on the opposite surface of the film, spaced pairs of adjoining tongues being extended toward each other in opposite directions, and all of the tongues intervening between the said pairs projecting in one direction, the edge of the perforation in the strip that is opposite to each of said intervening tongues being plain.

17,626. MOTION-PICTURE APPARATUS. RALPH P. DU VAULT, Chicago, Ill., assignor, by mesne assignments, to Acme Motion Picture Projector Company, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1922. Serial No. 575,826. Original No. 1,347,826, dated July 20, 1920, Serial No. 248,851, filed Aug. 8, 1918. 16 Claims. (Cl. 88—18.3.)



5. In a structure of the class described, in combination, film advancing means and means for operating said advancing means comprising a driven member and driving

member, said driving member having a plurality of periods of movement in one of which it is out of engagement with said driven member, in a second of which it is in non-driving engagement with said driven member and in the third of which it is in driving engagement with said driven member, and means for locking said driven member against movement while the driving member is in said second period of movement.

15. In a device of the character described and including in combination an aperture gate, a film advancing means on each side of the gate and means for operating said film advancing means comprising a driving member having a plurality of driving elements, each of which operates only one of the film advancing means, of a film sprocket associated with each of said film advancing means, said sprockets being disposed substantially above and below said aperture gate, with the perimeter of the one disposed below the gate extending a substantial distance to the back of the aperture gate and means for causing the film to be held against the gate.

DESIGNS

MARCH 18, 1930

80,717. COFFEE PERCOLATOR. CHARLES C. ARMSTRONG, Huntington, W. Va., assignor to The Armstrong Electric and Manufacturing Corporation, Huntington, W. Va., a Corporation of West Virginia. Filed Dec. 26, 1929. Serial No. 33,919. Term of patent 14 years.



The ornamental design for a coffee percolator, as shown.

80,718. SLIPPER. SAMUEL BERNFELD, Worcester, Mass., assignor to International Footwear Co. Inc., Worcester, Mass., a Corporation of New York. Filed Nov. 11, 1929. Serial No. 33,408. Term of patent 3½ years.



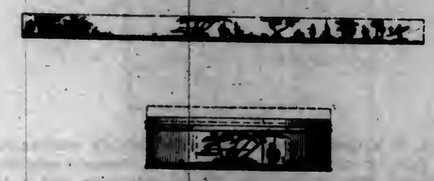
The ornamental design for a slipper as shown.

80,719. DRAPERY-POLE END. WILLIAM A. BLAKE, East Chattanooga, Tenn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 8, 1929. Serial No. 31,136. Term of patent 3½ years.



The ornamental design for a drapery pole end, as shown.

80,720. BOX OR SIMILAR ARTICLE OF MANUFACTURE. JOHN ARTHUR CORBETT, Honolulu, Territory of Hawaii, assignor to Robert Love Estate, Limited, Honolulu, Territory of Hawaii, a Corporation of Hawaii. Filed Dec. 12, 1929. Serial No. 33,767. Term of patent 14 years.



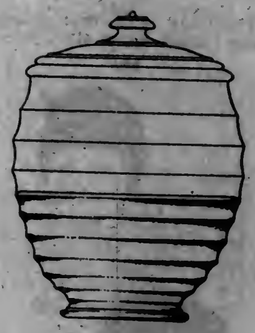
The ornamental design for a box or similar article of manufacture, as shown.

80,721. CLOSET. CHARLES R. CRANE, 2d, Chicago, Ill. Filed Sept. 25, 1929. Serial No. 32,863. Term of patent 14 years.



The ornamental design for a closet as shown and described.

80,722. BOWL OR SIMILAR ARTICLE. EDDY FAIRCHILD, Glen Ridge, N. J. Filed Aug. 10, 1929. Serial No. 32,371. Term of patent 7 years.



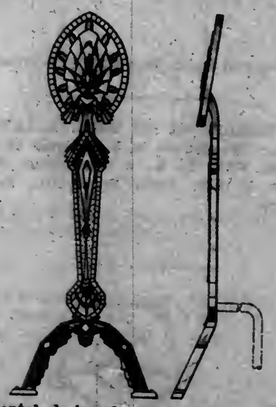
The ornamental design for a bowl or similar article, as shown and described.

80,723. SALT OR PEPPER SHAKER. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Sept. 18, 1929. Serial No. 32,781. Term of patent 7 years.



The ornamental design for a salt or pepper shaker substantially as shown.

80,724. ANDIRON. HENRY JOHN GROSS, Chicago, Ill. Filed Dec. 30, 1929. Serial No. 33,981. Term of patent 7 years.



The ornamental design for an andiron as shown and described.

80,725. GRILLE FOR SOUND REPRODUCER. ISAAC HARRIS, Buffalo, N. Y., assignor, by mesne assignments, to United Reproducers Corporation, Rochester, N. Y., a Corporation of New Jersey. Filed Apr. 17, 1928. Serial No. 26,360. Term of patent 3½ years.



The ornamental design for a grille for sound reproducer, substantially as shown.

80,726. STOVE. FRANK H. HAYES, Morris, Ill., assignor to Hayes-Custer Stove and Furnace Co., Bloomington, Ill., a Corporation of Illinois. Filed Dec. 26, 1929. Serial No. 33,933. Term of patent 7 years.



The ornamental design for a stove substantially as shown.

80,727. CHANDELIER OR SIMILAR ARTICLE. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 8, 1930. Serial No. 34,051. Term of patent 3½ years.



The ornamental design for a chandelier or similar article as shown.

80,728. RADIATOR. JAMES R. HUGHES, South Bend, Ind., assignor to The Studebaker Corportion, South Bend, Ind., a Corporation of New Jersey. Filed Jan. 2, 1930. Serial No. 33,996. Term of patent 14 years.



The ornamental design for a radiator as shown.

80,729. BOTTLE. GEORGES HUBET, Paris, France, assignor to Societe Anonyme Jean Patou, Paris, France, a Corporation of France. Filed Apr. 16, 1929. Serial No. 30,917. Term of patent 7 years.



The ornamental design for a bottle as shown.

80,730. KNITTED CAP. PAUL IWAN, Chicago, Ill. Filed May 27, 1929. Serial No. 31,413. Term of patent 7 years.



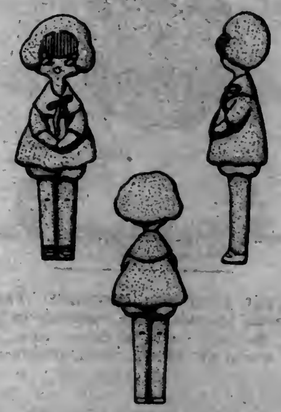
The ornamental design for a knitted cap substantially as shown and described.

80,731. GARTER OR SIMILAR ARTICLE. ANTONIOS G. KATSOUNAKIS, Steubenville, Ohio. Filed Dec. 6, 1929. Serial No. 33,674. Term of patent 7 years.



The ornamental design for a garter or similar article, as shown.

80,732. DOLL FIGURE. FANNY KEELER, New York, N. Y. Filed Dec. 7, 1928. Serial No. 29,147. Term of patent 14 years.



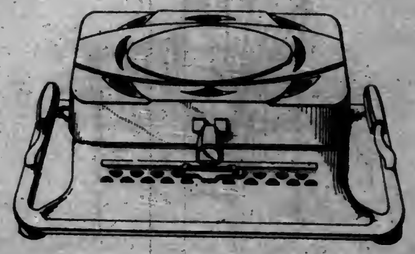
The ornamental design for a doll figure, as shown.

80,733. DOLL FIGURE. FANNY KEELER, New York, N. Y. Filed Dec. 7, 1928. Serial No. 29,148. Term of patent 14 years.



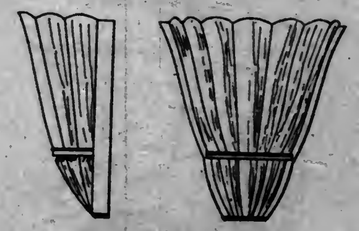
The ornamental design for a doll figure, as shown.

80,734. TOASTER. BRIAN A. LAPIN, Philadelphia, Pa., assignor to Proctor & Schwartz Electric Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 18, 1930. Serial No. 34,180. Term of patent 14 years.



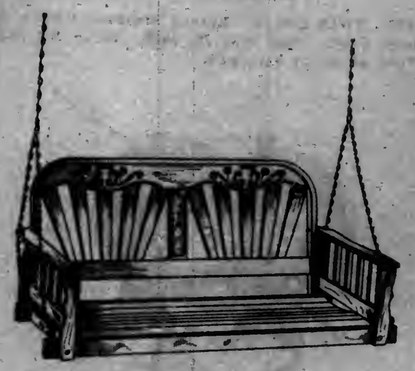
An ornamental design for a toaster, substantially as shown.

80,735. WALL BRACKET FOR LIGHTING FIXTURES. ABRAHAM LAZERSON, Chicago, Ill., assignor to Solar Illuminating Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1928. Serial No. 26,681. Term of patent 7 years.



The ornamental design for a wall bracket for lighting fixtures, substantially as shown.

80,736. SWING OR SIMILAR ARTICLE. ARTHUR J. LEHMAN, Cannelton, Ind. Filed Nov. 18, 1929. Serial No. 33,479. Term of patent 14 years.



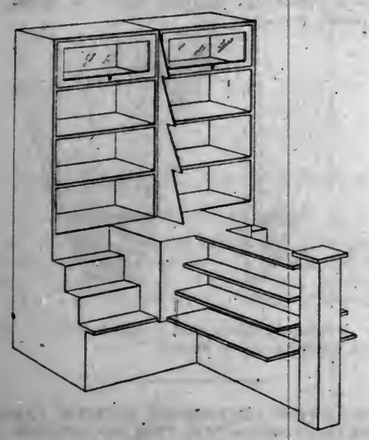
The ornamental design for a swing or similar article, as shown.

80,737. CHAIR. ARTHUR J. LEHMAN, Cannelton, Ind. Filed Nov. 18, 1929. Serial No. 33,480. Term of patent 14 years.



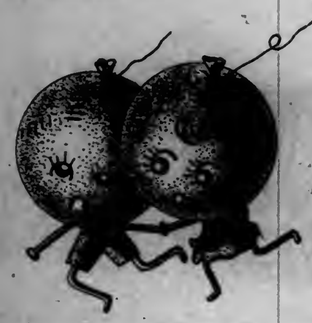
The ornamental design for a chair, as shown.

80,738. DISPLAY CASE. MAX M. ORR and CHESTER B. DOXEY, Minneapolis, Minn. Filed July 13, 1929. Serial No. 32,045. Term of patent 7 years.



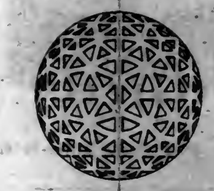
The ornamental design for a display case, as shown.

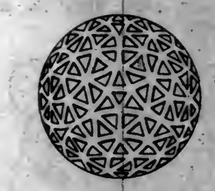
80,739. TWIN DOLLS. EVALYN STRATTON PARSON, Oakland, Calif. Filed Nov. 25, 1929. Serial No. 33,548. Term of patent 3½ years.



The ornamental design for twin dolls substantially as shown.

80,740. GOLF BALL. WILLIAM JOSEPH PERRY, Shooter's Hill, London, England, assignor to The India Rubber Gutta Percha & Telegraph Works Company Limited, London, England. Filed Jan. 3, 1930. Serial No. 34,013. Term of patent 14 years.





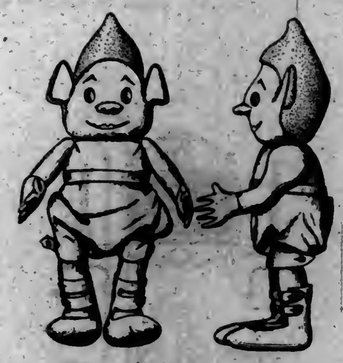
The ornamental design for a golf ball as shown.

80,741. METAL UNIT FOR JEWELRY. FREDERICK W. RETTENMEYER, Meriden, Conn., assignor to The Napier Company, Meriden, Conn., a Corporation. Filed Dec. 16, 1929. Serial No. 33,799. Term of patent 3½ years.



The ornamental design for a metal unit for jewelry, as shown and described.

80,742. DOLL. HILLMERT ROSS, Oakland, Calif. Filed Dec. 23, 1929. Serial No. 33,896. Term of patent 3½ years.



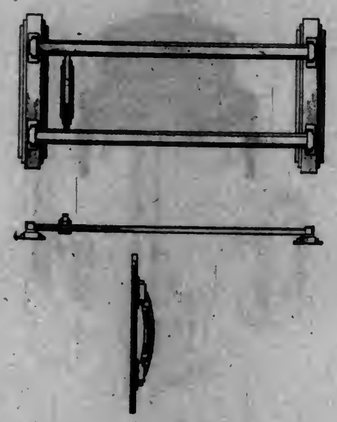
The ornamental design for doll, substantially as shown.

80,743. RING. ABRAHAM SAGER, Chicago, Ill. Filed Aug. 11, 1928. Serial No. 27,791. Term of patent 14 years.



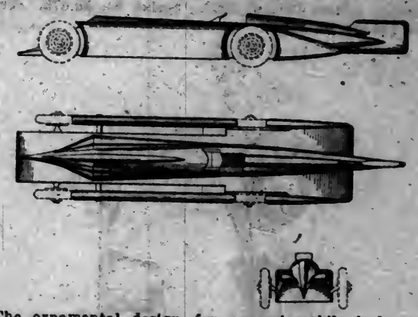
The ornamental design for a ring as shown.

80,744. PUSH AND PULL BAR. OSWALD G. SEIDENSTICKER, Chicago, Ill., assignor to The Payson Manufacturing Company, a Corporation of Illinois. Filed Dec. 4, 1929. Serial No. 33,638. Term of patent 7 years.



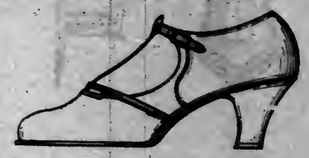
The ornamental design for a push and pull bar as shown.

80,745. AUTOMOBILE BODY. HENRY O. DE H. SEGRAVE, London, England. Filed Apr. 15, 1929. Serial No. 30,904. Term of patent 7 years.



The ornamental design for an automobile body substantially as shown.

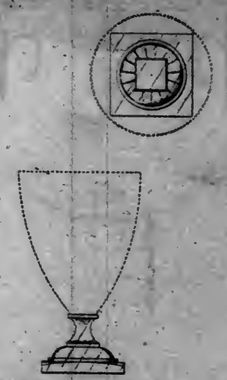
80,746. SHOE. ROGER A. SELBY, Portsmouth, Ohio, assignor to The Selby Shoe Company, Portsmouth, Ohio, a Corporation of Ohio. Filed July 5, 1929. Serial No. 31,949. Term of patent 3½ years.





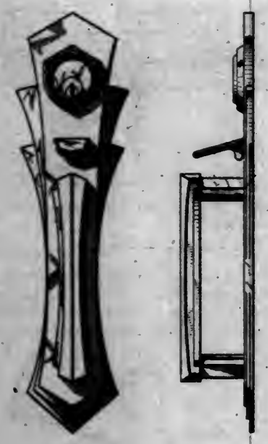
The ornamental design for a shoe, as shown.

80,747. GOBLET OR SIMILAR ARTICLE. EDWARD J. SCHAUB, Wheeling, W. Va., assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Dec. 18, 1929. Serial No. 33,880. Term of patent 7 years.



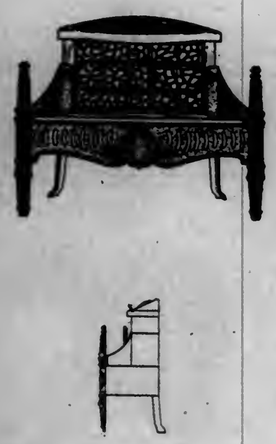
The ornamental design for a goblet or similar article, substantially as shown.

80,748. FRONT-DOOR-HANDLE PLATE. WALTER R. SCHLAGE, San Francisco, Calif., assignor to Schlage Lock Co., San Francisco, Calif., a Corporation of California. Filed Dec. 6, 1929. Serial No. 33,676. Term of patent 14 years.



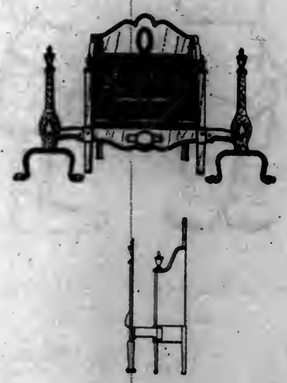
The ornamental design for a front door handle plate, substantially as shown.

80,749. GAS HEATER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio, a Corporation of Ohio. Filed Jan. 24, 1930. Serial No. 34,268. Term of patent 7 years.



The ornamental design for a gas heater, as shown.

80,750. GAS HEATER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio, a Corporation of Ohio. Filed Jan. 24, 1930. Serial No. 34,269. Term of patent 7 years.



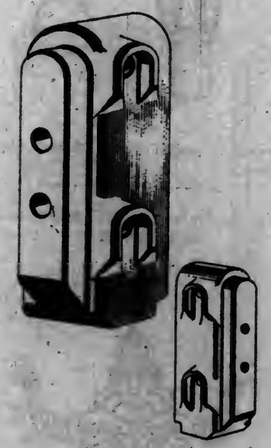
The ornamental design for a gas heater, as shown.

80,751. GAS HEATER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio, a Corporation of Ohio. Filed Jan. 24, 1930. Serial No. 34,270. Term of patent 7 years.



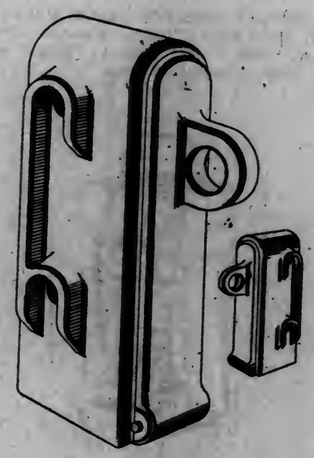
The ornamental design for a gas heater, as shown.

80,752. FUSE BOX. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 21, 1928. Serial No. 28,977. Term of patent 14 years.



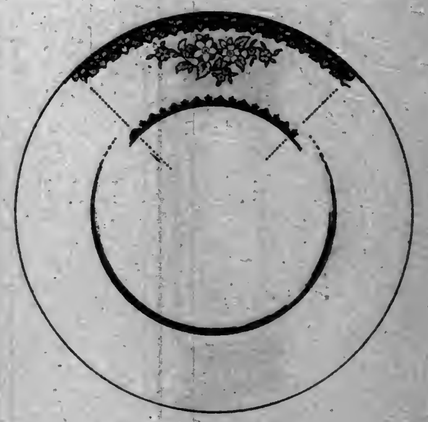
The ornamental design for a fuse box, as shown.

80,753. FUSE BOX. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 8, 1929. Serial No. 30,726. Term of patent 14 years.



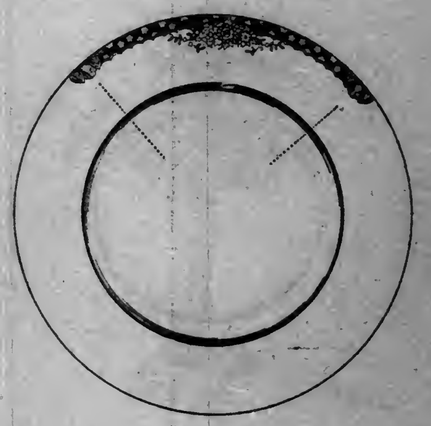
The ornamental design for a fuse box, as shown.

80,754. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 21, 1930. Serial No. 34,199. Term of patent 7 years.



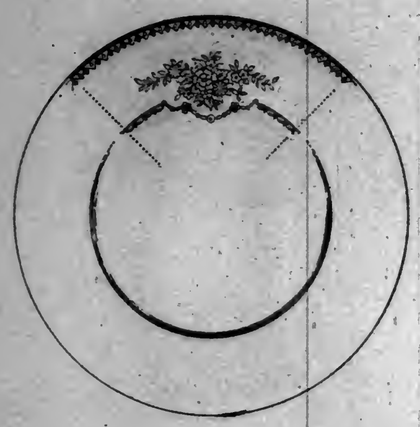
The ornamental design for a plate or similar article, as shown and described.

80,755. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 21, 1930. Serial No. 34,200. Term of patent 7 years.



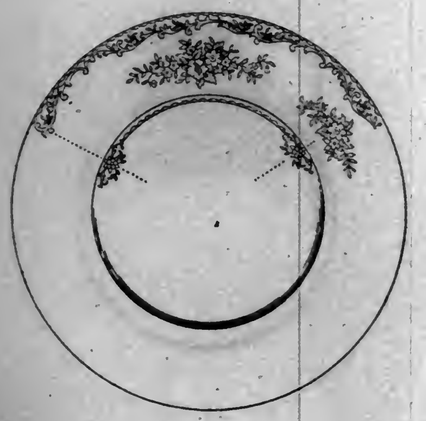
The ornamental design for a plate or similar article, as shown and described.

80,756. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 21, 1930. Serial No. 34,201. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

80,757. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 21, 1930. Serial No. 34,202. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

80,758. BOTTLE STOPPER. FERNAND TOURTOIS, New York, N. Y., assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1929. Serial No. 33,881. Term of patent 14 years.



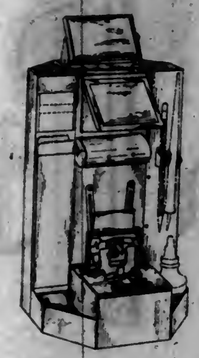
The ornamental design for a bottle stopper substantially as shown.

80,759. TOY. GOTTLIEB TRUMPF, Wilkinsburg, Pa. Filed July 17, 1929. Serial No. 32,093. Term of patent 7 years.



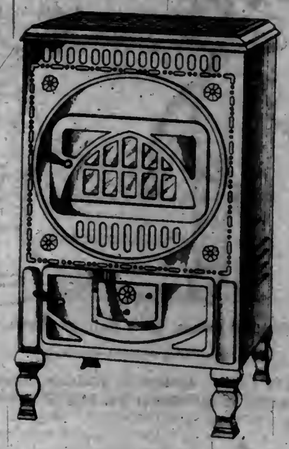
The ornamental design for a toy as shown.

80,760. DISPLAY-DESK-APPLIANCE MACHINE CASING OR SIMILAR ARTICLE. WILLIAM A. UTTZ, Sr., Cleveland, Ohio. Filed July 12, 1929. Serial No. 32,011. Term of patent 14 years.



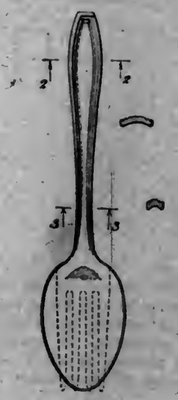
The ornamental design for a display desk appliance machine casing or similar article as shown.

80,761. HEATER CASING. GEORGE D. WILKINSON, Oak Park, Ill., assignor to Cribben & Sexton Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 12, 1929. Serial No. 33,762. Term of patent 3½ years.



The ornamental design for a heater casing as shown.

80,762. SPOON OR SIMILAR ARTICLE. GEORGE P. ITTIG, Bridgeport, Conn., assignor to Blackstone Silver Company, Inc., Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 21, 1929. Serial No. 32,489. Term of patent 7 years.



The ornamental design for a spoon or similar article substantially as shown and described.

80,763. HOUSING OF AIR-COOLING UNIT. HARRY D. BURR, Kansas City, Mo. Filed Jan. 27, 1930. Serial No. 34,310. Term of patent 7 years.



The ornamental design for a housing of air cooling unit, as shown.

80,764. ASH STAND. LOUIS HOFFBERG, Chicago, Ill., assignor to Vidrio Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 16, 1929. Serial No. 33,808. Term of patent 14 years.



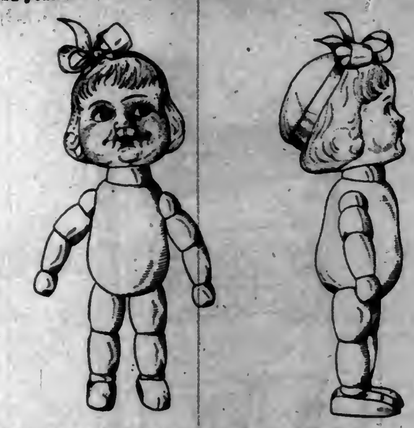
The ornamental design for an ash stand as shown.

80,765. COMBINED ASH TRAY AND STAND. Louis Hoffberg, Chicago, Ill., assignor to Vidrio Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 16, 1929. Serial No. 33,809. Term of patent 14 years.



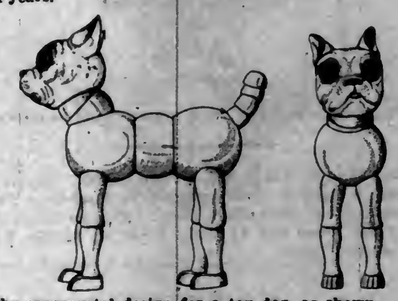
The ornamental design for a combined ash tray and stand as shown.

80,766. DOLL. Joseph L. Kallus, Brooklyn, N. Y. Filed Jan. 15, 1930. Serial No. 34,135. Term of patent 14 years.



The ornamental design for a doll, as shown.

80,767. TOY DOG. Joseph L. Kallus, Brooklyn, N. Y. Filed Jan. 15, 1930. Serial No. 34,136. Term of patent 14 years.

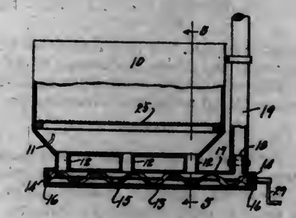


The ornamental design for a toy dog, as shown.

PATENTS

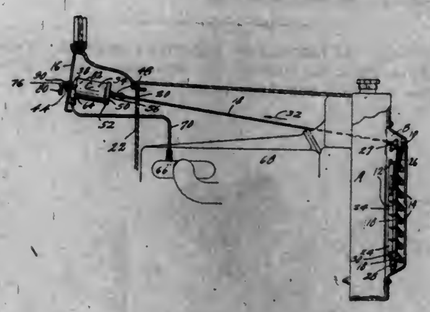
GRANTED MARCH 18, 1930

1,750,617. CHEMICAL APPARATUS. William H. Allen, Detroit, Mich., assignor, by mesne assignments, to Parker Rust Proof Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 14, 1927. Serial No. 175,164. 4 Claims. (Cl. 23—285.)



1. Apparatus for chemical treatment of articles comprising a tank adapted to contain liquid having a sediment chamber open thereto, a conveyor in said chamber and an outlet conduit leading from said chamber and extending to near the top of the tank when not discharging and means permitting lowering of said conduit to permit discharge.

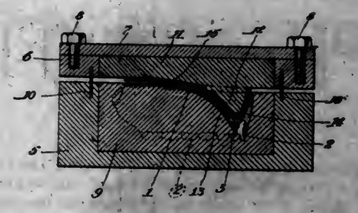
1,750,618. RADIATOR-SHUTTER-CONTROL STRUCTURE. Bartlett R. Bennett, Mineola, N. Y. Filed July 2, 1928. Serial No. 289,947. 9 Claims. (Cl. 123—174.)



1. In a radiator shutter control structure, a cylinder, a piston therein and adapted to be operated by a reduction of air pressure within the cylinder and a manually controlled valve structure for controlling such reduction of pressure, said valve structure serving to support the cylinder and piston relative to an automobile instrument panel.

1,750,619. DENTURE. Charles E. Bradley, Mishawaka, Ind. Filed Aug. 23, 1927. Serial No. 214,846. 7 Claims. (Cl. 32—4.)

1. A vulcanite denture comprising a hard rubber mounting with artificial teeth thereon and having a layer of soft rubber containing an organic accelerator and from two to five parts combined sulphur vulcanized on the palatine side thereof.



6. A vulcanite denture comprising a hard rubber mounting for artificial teeth and a layer of soft rubber vulcanized thereon in the initial stage of vulcanization of the hard rubber.

1,750,620. ARITHMETICAL TOP AND DICE GAME. Vertner D. Brittingham, San Antonio, Tex., assignor of one-half to Joe Oliver Naylor, San Antonio, Tex. Filed May 2, 1929. Serial No. 359,972. 3 Claims. (Cl. 273—134.)

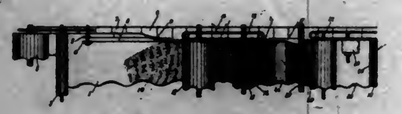


1. An arithmetical game comprising, a chart having a single continuous curved path outlined thereon, said path being divided into a plurality of spaces, each of which is numbered, said numbers comprising a plurality of similar groups, two markers, each of which serves to identify a numbered space, and means having areas provided with indicia representing the four arithmetical signs for determining by chance the arithmetical operation to which the two numbers corresponding to the positions of the markers must be subjected so as to determine the number of spaces each player may move his marker.

1,750,621. PLASTER WALL BOARD AND METHOD OF MAKING SAME. Harry E. Brookby, Evanston, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1926. Serial No. 113,845. 18 Claims. (Cl. 154—2.)

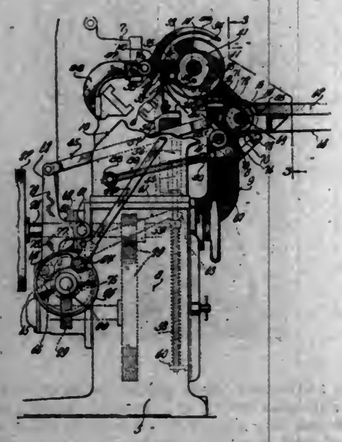
18. The method of making plaster wall board with a longitudinally fluted core which consists in continuously

advancing a fibrous cover sheet with a plastic material thereon, in scoring the opposite edges of the cover sheet and turning them up edgewise to contain the plastic material, in leveling and partially gauging the thickness of the plastic material on the cover sheet, and in supporting the turned up edges of the cover sheet during this operation; in longitudinally grooving the upper face of the plastic material in folding over inwardly the upstanding edges of the



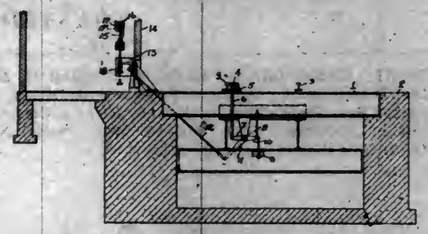
bottom cover sheet, in passing the lower cover sheet and the core thus formed through board forming rolls and in applying an upper cover sheet to the ridges of the core thus formed, the cover sheets bonding to the plastic core, in supporting the edges of the board during the board forming operation and thereafter, and in pressing down the edges of the board thus formed after the board forming operation until the plastic core is partially set.

1,750,622. DELIVERY MECHANISM FOR SIGNATURE-STITCHING MACHINES. ELMER W. BELLUCHE, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed May 4, 1928. Serial No. 275,222. 3 Claims. (Cl. 270—58.)



1. In a delivery mechanism for signature stitching machines, the combination with a substantially inverted V shaped saddle member, of a delivery roll mounted with its axis substantially parallel to the saddle whereby a line drawn vertically through the apex of the saddle is tangentially disposed with respect to the circumference of the roll, of means for oscillating the delivery roll, gripper fingers carried by the delivery roll and adapted to open at each limit of movement of the roll, means for elevating a completed book from the saddle into the gripper fingers when the delivery roll is at one limit of movement, the completed book being carried through its cycle by the delivery roll, and means for removing the completed book from the path of the delivery roll after the same reaches its other limit of movement.

1,750,623. LOCKING DEVICE FOR WEIGHING SCALES. JESSE H. BRANT, Youngstown, Ohio. Filed June 2, 1927. Serial No. 195,036. 7 Claims. (Cl. 265—72.)



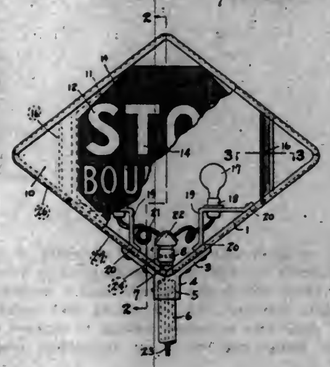
1. In a weighing scale, the combination of a scale-platform, a scale-beam, and means including a catch controlled by the load to be weighed for holding the beam inoperative until the load is placed properly on the platform.

1,750,624. BOX-TRAY SUPPORT. WILLIAM L. BUEDINGEN, Milwaukee, Wis. Original application filed July 12, 1919, Serial No. 310,877. Divided and this application filed Mar. 2, 1922. Serial No. 540,471. 1 Claim. (Cl. 248—20.)



A support for readily removably securing a tray in the top open portion of a box and formed from bendable sheet metal and having its medial portion cut away to form two spaced arms connected by a transverse part at their inner ends, laterally struck hook members on the outer ends of the arms adapted to be engaged over the adjacent edges of the box to readily removably suspend the tray support therefrom, and a longitudinal shelf portion struck inwardly from the transverse part and upon which the tray is readily removably supported.

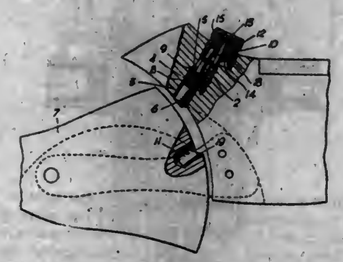
1,750,625. ILLUMINATED HIGHWAY SIGNAL. VETABELLE PHILLIPS CARTER, San Francisco, Calif. Filed Dec. 6, 1926. Serial No. 152,961. 3 Claims. (Cl. 40—132.)



1. A sign signal of the character described comprising a relatively flat box arranged vertically on edge, illuminating means within said box, a bracket provided with a depending pipe socket secured to the lower edge of the box, said box being formed of an inwardly turned channel member, a second wider inwardly turned channel covering the

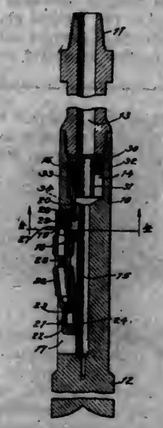
upper run of said first channel, with the downwardly extending flanges of said second channel spaced outwardly from the downwardly extending flanges of said first mentioned channel and sides of the box bearing translucent cut-out indicia marginally inserted in the space therebetween.

1,750,626. HINGED LAST. WALTER CREBER, Leicester, England. Filed Dec. 20, 1927, Serial No. 241,298, and in Great Britain Feb. 11, 1927. 17 Claims. (Cl. 12—136.)



1. In a two-part hinged last, locking means comprising a locking element slidable in one part of the last and adapted to engage with the other part of the last to lock the two parts in straightened condition, and a member on the last adapted for turning to operate said slidable element.

1,750,627. EXPANSIBLE UNDERREAMER. ROLAND R. CRUM, Whittier, Calif., assignor to H. C. Smith Manufacturing Company, Whittier, Calif., a Corporation of California. Filed Oct. 15, 1928. Serial No. 312,474. 14 Claims. (Cl. 255—75.)



1. In an underreamer, the combination of a body, having a longitudinally extending cavity in its periphery with a stepped inner surface at one end and an outwardly sloping ramp intermediate the steps, a cutter accommodated in said cavity for longitudinal play therein and having a connection to said body so that it may be moved laterally thereon into and out of expanded position, a supporting block secured to said cutter adjacent to said ramp, said block having a supporting surface to engage and coact with the outer step and a sloping bearing surface for engaging said ramp to cause said cutter to be projected upon upward movement thereof into expanded position, a cylinder chamber communicating with a source of fluid pressure, a piston in said cylinder, and a connecting rod for actuating said cutter to move the latter longitudinally upon introduction of fluid under pressure into said chamber so as to cause said block to ride outwardly over said ramp into position with said supporting surface overlaping the outer stepped surface.

1,750,628. EXPANSIBLE UNDERREAMER. ROLAND R. CRUM, Whittier, Calif., assignor to H. C. Smith Manufacturing Company, Whittier, Calif., a Corporation of California. Filed Oct. 15, 1928. Serial No. 312,475. 14 Claims. (Cl. 225—75.)



1. In an underreamer, the combination of a body having a longitudinally extending cavity in its periphery with an outwardly sloping ramp at one end, a cutter accommodated in said cavity for longitudinal play therein and having a connection to said body so that it may be moved laterally thereon into and out of expanded position, means tending to move said cutter toward said ramp, a catch secured to said cutter and having an outer lateral bearing surface, the tip of said catch engaging said ramp to cause said cutter to be retracted and projected upon longitudinal movement thereof, and a longitudinally movable latch on said body having a retaining surface complementary to and engaging the bearing surface on said catch to prevent outward lateral displacement of said cutter.

1,750,629. EXPANSIBLE UNDERREAMER. ROLAND R. CRUM, Whittier, Calif., assignor to H. C. Smith Manufacturing Company, Whittier, Calif., a Corporation of California. Filed Oct. 15, 1928. Serial No. 312,476. 20 Claims. (Cl. 255—75.)

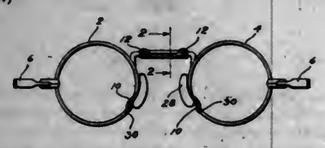
1. In an underreamer, the combination of a body having a longitudinally extending cavity in its periphery with a pocket at the upper end, said pocket having an outer wall, a cutter accommodated in said cavity for longitudinal play therein and having a connection to said body so that it may be moved laterally into and out of expanded position, means tending to move said cutter to its upper longitudinal position, a catch secured to the upper end of said cutter having a bearing surface, said catch having its tip within said pocket, a guide in said pocket having a coacting surface for sliding engagement by said bearing surface, one of said surfaces sloping to direct said catch outwardly against the outer wall of said pocket on its upward movement and dispose said cutter in expanded position and inwardly to the rear of said guide on downward movement with said

cutter in collapsed position, a longitudinally shiftable latch movable in said pocket to engage and retain said catch



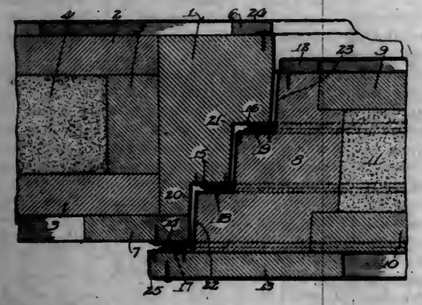
at its lower position, and means urging said latch into lower positon with said bearing surface out of engagement with said coacting surface.

1,750,630. OPHTHALMIC MOUNTING. GEORGE H. DAY, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 10, 1927. Serial No. 232,431. 3 Claims. (Cl. 88—43.)



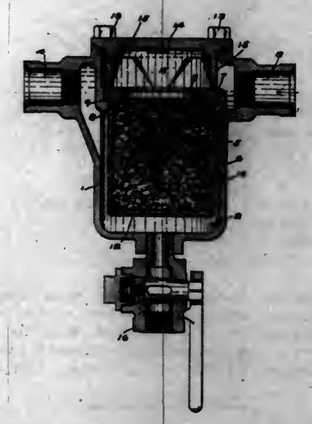
1. An ophthalmic mounting comprising two lens-holding members each having a projection, a tube longitudinally slotted along one side only of the tube, the projections extending into the tube through opposite ends of the tube, and clamping means for contracting the edges of the tube along the slot to force the walls of the tube into engagement with the projections.

1,750,631. CLOSURE. FREDERICK R. EAGLESFIELD, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a Corporation of Michigan. Filed Nov. 18, 1926. Serial No. 149,075. 12 Claims. (Cl. 20—69.)



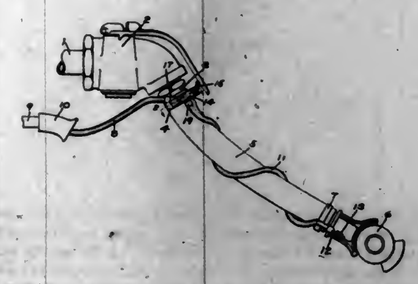
1. In a closure device having relatively movable parts, sheet material facings for said parts, and insulating means carried by the facing of one of said parts and adapted to form a sealing contact with the facing of the other of said parts.

1,750,632. AIR-STRAINING DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 1, 1927. Serial No. 180,156. 2 Claims. (Cl. 183—48.)



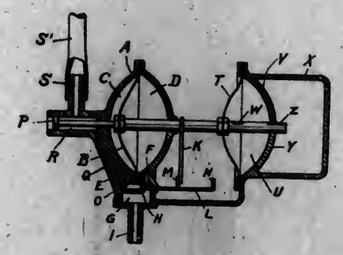
1. In an air straining device for fluid pressure systems, the combination with a casing having an internal horizontally disposed lug, of a strainer supported by said lug, a member removably secured to said casing, and a plurality of spaced lugs integral with said member adapted to engage said strainer in the vertical plane of said horizontally disposed lug, the space between said lugs being adapted to permit fluid to flow into said strainer.

1,750,633. ELECTRIC TRAIN-WIRE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1928. Serial No. 258,238. 5 Claims. (Cl. 173—333.)



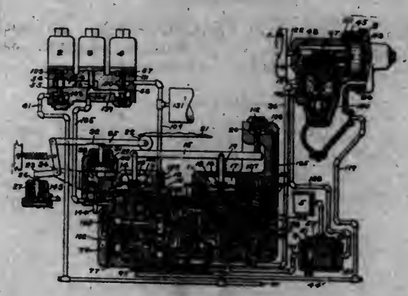
1. The combination with a section of flexible hose and a hose coupling carried at one end of the hose section, of a cable section having one end electrically connected to said coupling, a member associated with the other end of the hose section to which the other end of said cable section is electrically connected, a train wire cable, and strain detachable means for connecting the terminal of said train wire cable to said member.

1,750,634. PULSATOR FOR MILKING MACHINES. ERIK AUGUST FORSBERG, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 8, 1928, Serial No. 274,803, and in Sweden Nov. 4, 1927. 8 Claims. (Cl. 31—61.)



1. A milking machine pulsator comprising a pneumatically operable working member, a pneumatic pulsation tube, means controlled by said member to effect pneumatic pulsations in said tube, and a fluid braking device connected with, operable by, and controlling the speed of, said working member; said braking device comprising walls forming two chambers shut off from the atmosphere, the exterior wall of one of said chambers comprising a movable diaphragm, and ports affording communication between said chambers.

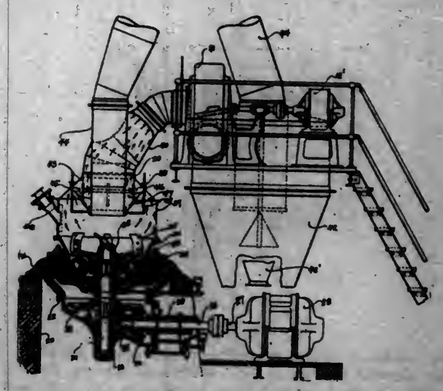
1,750,635. VARIABLE-LOAD BRAKE. JOHN N. GOOD, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 3, 1928. Serial No. 290,118. 14 Claims. (Cl. 303—22.)



3. In a braking apparatus, the combination with means for controlling the brakes electrically and means for controlling the brakes pneumatically, of a slide valve operative to render either the electric brake controlling means or the pneumatic brake controlling means effective to control the brakes, pistons subject to the pressure of fluid for operating said slide valve, pressure sensitive valve means operative to control the operation of said pistons, and valve means included in the pneumatically controlled means adapted to control the operation of said pressure sensitive valve means.

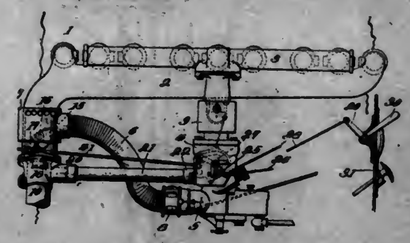
1,750,636. PULVERIZER MILL. RUSSELL ORLANDO GROMAN, Catasauqua, Pa., assignor to Fuller-Lehigh Company, Fullerton, Pa., a Corporation of Pennsylvania. Filed Feb. 11, 1927. Serial No. 167,421. 18 Claims. (Cl. 83—45.)

1. In a pulverizer mill, which includes pulverizing elements, the combination of a casing at one end of which said elements are disposed, an air inlet duct entering the casing at its opposite end for introducing air into the casing above the elements and in a downward direction, an air outlet duct at the said end of the casing surrounding and concentric with the air inlet duct for the outward flow of air from the casing in an upward direction, a baffle of inverted truncated form mounted within the casing in



the path of air flowing into the outlet duct and causing the air to flow along the casing wall prior to its entrance into the said outlet duct, and a vertically adjustable end section for the air inlet duct movable to different positions of adjustment with reference to the elements to vary the point at which air is admitted into the casing, this end section being movable through the baffle.

1,750,637. HEAT-CONTROLLING MEANS FOR CHARGE-FORMING DEVICES. WALTER G. HEGINBOTTOM, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Indiana. Filed Mar. 14, 1923, Serial No. 625,055. Renewed Feb. 1, 1927. 32 Claims. (Cl. 123—122.)

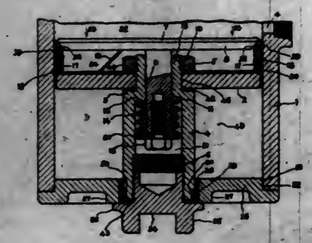


1. The combination with an internal combustion engine having an exhaust passage, intake manifold and charge forming device connected thereto, of a heater for heating the charge in its passage to the engine, a valve for controlling the passage of exhaust gases to said heater, a valve for controlling the passage of explosive charge to said engine, a member, a connection between said valves and member and adjustable means arranged in the path of travel of said member to vary the effect of movement of the charge controlling valve on the exhaust controlling valve.

1,750,638. PISTON. WILLIAM MCLEAN STEWART JACKSON, Cleveland, Ohio, assignor to The Guardian Trust Company, a Corporation of Ohio. Filed July 17, 1926. Serial No. 123,059. 12 Claims. (Cl. 74—108.)

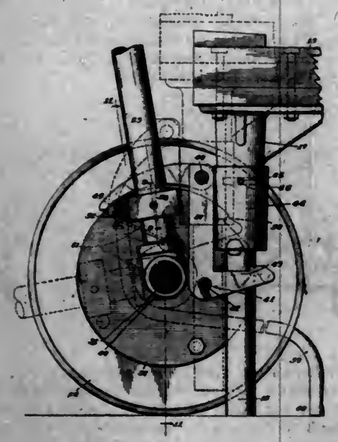
1. In a piston, the combination with a metallic cup having resilient thin side walls, of a split metallic ring tele-

scoped within the cup, a piston body carrying said cup, the cup side walls being projected forwardly therefrom, of a piston head normally spring pressed toward the piston body and making at an edge portion engagement with an inner upper portion of the ring, said head movable under



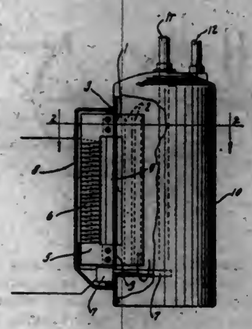
the combined effects of spring pressure and pressure of fluid exerted against its outer surface to cam the ring outwardly to effect expansion of portions of cup side walls adjacent its rim into sealing engagement with enclosing cylinder walls.

1,750,639. INDUSTRIAL TRUCK AND THE LIKE. LEE B. JONES, Kansas City, Mo. Filed Feb. 17, 1927. Serial No. 168,944. 13 Claims. (Cl. 280—46.)



13. In a truck capable of normally carrying a superimposed load on a pair of wheels and a leg support, means for shifting the load from the support to an auxiliary set of wheels, said means comprising a pair of wheels, a body carried by the wheels, and a post pivotally swung from the body adapted to be raised and lowered by rocking said body between said wheels, said post being formed to pivotally engage said truck, and releasable means cooperating between said body and said post to secure said post in its elevated position.

1,750,640. ELECTRICAL WATER HEATER. ERNEST E. KITTREDGE, Alameda, JOSEPH A. FORSTER, Oakland, and RASMUS D. JOHANSEN, Alameda, Calif. Filed Mar. 19, 1928. Serial No. 262,722. 1 Claim. (Cl. 219—47.)



A water heater comprising a transformer of laminated construction, a heating element being substantially solid and having a plurality of longitudinal bores extending therethrough and opening at both ends of said element, arms carried by the transformer and complementary arms carried by the heating element for spacing said element from said transformer, said arms being adapted to extend through the side wall of a boiler for securing the heating element within the boiler.

1,750,641. CAGE FOR BALL BEARINGS. ANDREW H. LINDS, Philadelphia, Pa. Filed Jan. 8, 1927. Serial No. 159,758. 7 Claims. (Cl. 308—201.)



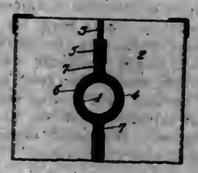
1. A ball bearing comprising a cage and balls therein; the cage comprising two circular members each of an approximate U-shape in cross-section and porvided at intervals along their free edges with pairs of flanges arranged opposite to the pairs of flanges in the other cage member and forming therewith ball pockets, each of said flanges extending through an arc substantially shorter than 180°, the corresponding ends of the corresponding flanges of the two cage members being spaced apart a substantial distance to prevent contact with the pockets of the fastest moving surfaces of contained balls.

1,750,642. DISPLAY APPARATUS. LESLIE R. MCDONALD, Montreal, Quebec, Canada. Filed June 28, 1928. Serial No. 287,719. 5 Claims. (Cl. 40—36.)



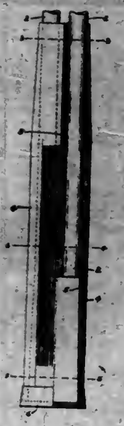
1. In a display apparatus, the combination of a case provided with a plurality of placard compartments, a series of placard carriers slidably disposed therein, means for shifting a placard carrier laterally, means for shifting a placard carrier transversely, embodying a shaft provided with a lower spring arm and with an upper spring arm pressing resiliently forward to engage the top of each placard carrier successively.

1,750,643. WELDING COPPER AND THE LIKE. THOMAS E. MURRAY, Jr., and IRVING T. BENNETT, Brooklyn, N. Y.; said Bennett assignor to Thomas E. Murray, Brooklyn, N. Y. Filed July 5, 1927. Serial No. 203,438. 7 Claims. (Cl. 219—10.)



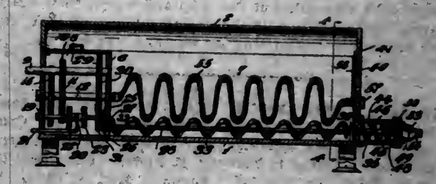
1. The method of making a lap joint between two pieces of metal of comparatively high conductivity which consists in applying at opposite sides thereof pieces of metal of comparatively low conductivity and electrically welding the latter together through the metal of the pieces of higher conductivity.

1,750,644. HANDLE FOR TENNIS RACKETS AND THE LIKE. HAROLD W. NORTON, Dayton, Ohio, assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 20, 1922. Serial No. 602,056. 3 Claims. (Cl. 273—73.)



1. The combination with a tennis racket frame, of a hard rubber handle having a porous interior molded to the legs thereof.

1,750,645. CUTTING AND MIXING MACHINE. CHRISTOPHER OFFENHAUSER, Philadelphia, Pa. Filed July 5, 1928. Serial No. 290,447. 11 Claims. (Cl. 146—182.)

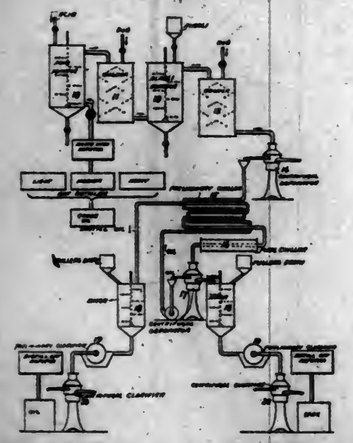


11. In a cutting and mixing machine, a casing having a mixing chamber provided with a discharge opening, a gate for said opening, cutting mechanism to which the material is discharged from said opening, side feed screws in said chamber connected to revolve in opposite directions, a central feed screw, means to drive said central feed screw in a forward or a reverse direction, driving means for said side feed screws, said feed screws being detachably connected with their driving means, means to actuate said cutting mechanism, and a discharge spout to receive the material from said cutting mechanism and detachably connected therewith and the discharge end of said spout being adapted to give a predetermined contour in cross section to the material being discharged.

1,750,646. PROCESS OF PURIFYING WAX DISTILLATES. EARL PETTY, Winfield, Kans., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 24, 1921. Serial No. 495,079. 6 Claims. (Cl. 196—21.)

5. The process of producing wax-free oil of different specific gravities from a mineral oil stock containing wax and hydrocarbons having higher and lower boiling points than the wax, which comprises first distilling off from said stock a plurality of wax distillates of different specific gravities and afterward subjecting each wax distillate

separately to dilution with a light petroleum distillate and agitation with acid and alkali, with separation of the water and soap, then refrigerating and centrifugally separating the oil and wax, and then decolorizing each wax-free oil and distilling off the diluent, thereby avoiding a final distillation of the wax-free oil to separate the mixed distillates and the resultant impairment of color.



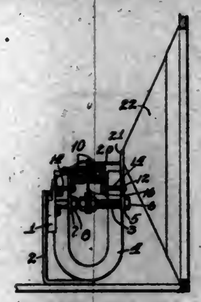
6. The process of producing refined wax and wax-free oil of different specific gravities from a mineral oil stock containing wax and hydrocarbons having higher and lower boiling points than the wax, which comprises first successively distilling off from said stock a plurality of wax distillates of different specific gravities and afterward subjecting each wax distillate separately to dilution with a light petroleum distillate and agitation with acid and alkali, with separation of the soap and water, then refrigerating and centrifugally separating the oil and wax, and then separately decolorizing the wax and wax-free oil.

1,750,647. LEAD PENCIL. EARL F. PIERCE and JOHN DAVID DICKINSON, Chicago, Ill.; Central Trust Company of Illinois, administrator of said Earl F. Pierce, deceased, assignor to Florence E. Pierce. Filed Dec. 13, 1922, Serial No. 606,581. Renewed Mar. 9, 1929. 16 Claims. (Cl. 120—18.)



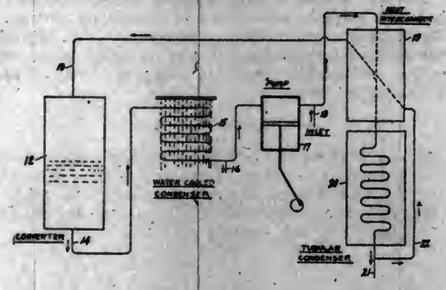
9. In a lead pencil a lead guiding tube having a longitudinally extending slot therein, lead containing means around said tube communicating therewith, closing means for said slot and means for actuating said closing means.

1,750,648. LOUD-SPEAKER UNIT. JAMES P. QUAM, Chicago, Ill. Filed Oct. 20, 1928. Serial No. 313,690. 4 Claims. (Cl. 179—114.)



3. In a loud speaker unit, a supporting bracket, a pair of spaced threaded studs projecting laterally therefrom, a horseshoe magnet positioned between the studs, means threaded on the studs for securing the magnet in position relative thereto and for adjusting the relative spacing of the legs of the magnet, an armature adjustably supported by said studs and projecting between the poles of the magnet, and means threaded on the studs for securing the armature in vertical and lateral adjustment.

1,750,649. SYNTHETIC PRODUCTION OF AMMONIA. RALPH S. RICHARDSON, Teaneck, N. J., assignor to Chemical Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1927. Serial No. 174,904. 7 Claims. (Cl. 23—199.)

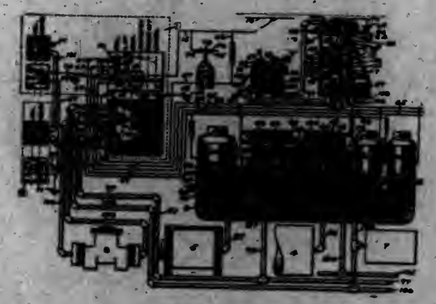


2. In the synthetic production of ammonia, the method of removing ammonia products from the circulation system which comprises condensing the synthesized ammonia gases to liquid anhydrous ammonia and removing the latter from the system, then adding fresh gases to the gases in the circulation system, then cooling the resultant gases with production of liquefied ammonia, and finally removing the latter along with condensable impurities which may have been introduced into the system.

1,750,650. ELECTROPNEUMATIC BRAKE EQUIPMENT. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1928. Serial No. 299,135. 20 Claims. (Cl. 303—3.)

1. In an electro-pneumatic brake, the combination with three electro-magnets normally energized, of an application pipe normally charged with fluid under pressure, and means operative upon a reduction in the pressure of fluid

in said pipe and the deenergization of two of said electromagnets for effecting a service application of the brakes,

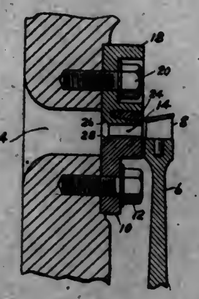


and operative upon a reduction in the pressure of fluid in said pipe and the deenergization of all of said magnets for effecting an emergency application of the brakes.

1,750,651. MEANS OF CLEANING AND PROTECTING METAL SURFACES. JAMES C. VIGNOS, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 19, 1927. Serial No. 234,547. 14 Claims. (Cl. 148—8.)

1. A metal treating compound comprising a highly ionized mineral pickle acid solution containing less than 1% by weight of a sulfonated mercaptan.

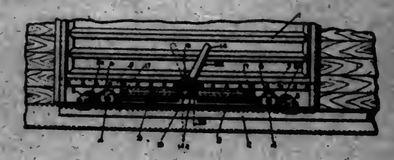
1,750,652. NOZZLE CONSTRUCTION. CARL R. WALLER, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey. Filed Oct. 28, 1927. Serial No. 229,818. 4 Claims. (Cl. 253—78.)



1. A nozzle construction for turbines comprising a vane supporting structure having opposed circumferentially extending walls forming a passage therebetween, a vane located in said passage and between said walls, and means for moving one of said walls towards the other to tightly clamp the vane therebetween, said means comprising a surface on the wall tapering relatively to a fixed surface, the angle between the surfaces opening in a direction substantially parallel to the walls, and a wedge engaging between said surfaces.

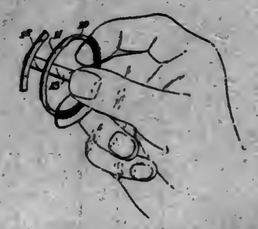
1,750,653. DOOR-LIFTING MEANS. AXEL WASBERG and KENNETH J. TOBIN, Chicago, Ill., assignors to Camel Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 24, 1928. Serial No. 308,120. 7 Claims. (Cl. 16—99.)

1. The combination with a track, of a sliding door having a support for frictionally engaging said track, a pair of guide members on the door, an element slidably confined with respect to said guide members, rollers carried by said element, said element having a horizontal flange, spaced housings upon said door enclosing said flange, a shaft ex-



tending through said housings above said flange, a pair of double acting cams upon said shaft, a third cam positioned between said double acting cams, and a lever for actuating said third mentioned cam.

1,750,654. URETHRAL CLIP. REINHOLD H. WAPPLER, Yonkers, N. Y. Filed Apr. 17, 1929. Serial No. 355,708. 8 Claims. (Cl. 128—346.)



1. A surgical clip of the character described comprising a loop element having a portion thereof constructed to form a jaw, a cross-piece element provided with a complementary jaw, and resilient means conforming to said loop for pivotally associating said elements at a point diametrically opposite to said jaws.

1,750,655. WHEEL. JOHN WILLIAM WHITE, Buffalo, N. Y., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed Nov. 3, 1924, Serial No. 747,520. Renewed Apr. 16, 1928. 3 Claims. (Cl. 301—9.)

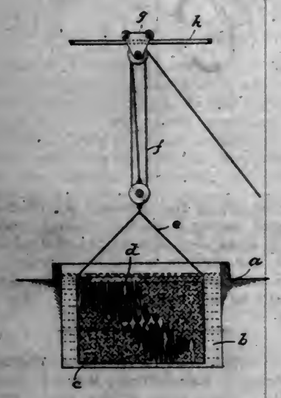


1. In a disc wheel a hub having adjacent its inner end, an annular flange projecting radially therefrom, an annular seat on said hub in front of said flange, a second annular seat on said hub in front of and smaller in diameter than said first named seat, a wheel disc, a brake drum

mounted behind said disc, on said first named seat, a clamping ring mounted in front of said disc on said second named seat and means for permanently securing said brake drum to said flange and for removably clamping said disc between said brake drum and said clamping means.

2. In a disc wheel a hub having, adjacent its inner end, an annular flange projecting radially therefrom, a brake drum mounted upon said hub, means securing said drum to said flange, said drum having an outwardly inclined annular portion outside said securing means, a wheel disc in front of said drum, an annular plate mounted upon said hub in front of said disc and means for clamping said disc between said plate and said drum, said disc being clamped by the plate adjacent its periphery against the outwardly inclined annular portion of said drum whereby the portion of the disc inside the periphery of the plate is unconfined.

1,750,656. METHOD OF CASING TOBACCO. HARRY P. WUHMAN, Brooklyn, N. Y., assignor to Bayuk Cigars Incorporated, Philadelphia, Pa., a Corporation of Maryland. Filed Mar. 10, 1926. Serial No. 93,546. 2 Claims. (Cl. 131—55.)



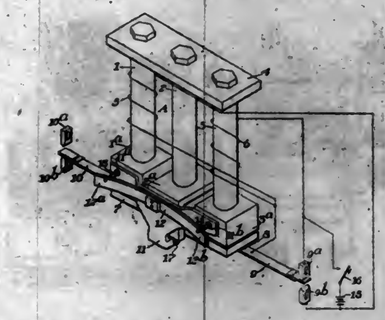
1. The method of treating a bale of tobacco consisting of hands arranged in parallelism, including lowering the bale into water with the leaves composing the hands extending substantially vertically.

1,750,657. BLEACHING PROCESS. GUSTAV ADOLPH and ALBERT PIETZSCH, Hoellriegelskreuth, near Munich, Germany. Filed Mar. 11, 1927, Serial No. 174,691, and in Germany Mar. 29, 1926. 2 Claims. (Cl. 8—2.)

1. In the process of bleaching, the step which consists in treating the articles to be bleached in a bath containing hydrogen peroxide and a persulphate.

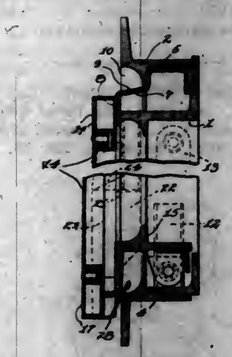
1,750,658. ELECTRICAL RELAY. HARRY E. ASHWORTH and BRANKO LAZICH, Pittsburgh, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1929. Serial No. 396,225. 10 Claims. (Cl. 175—336.)

1. In combination, an electromagnet, an armature controlled by said electromagnet, an auxiliary magnetic path between the pole pieces of said electromagnet for shunting a portion of the flux from said electromagnet away



from said armature, and means for varying the reluctance of said path in response to variations in the ambient temperature.

1,750,659. WINDOW SCREEN. GUSTAF IVAR BARCLAY, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 8, 1927. Serial No. 158,743. 8 Claims. (Cl. 156—14.)

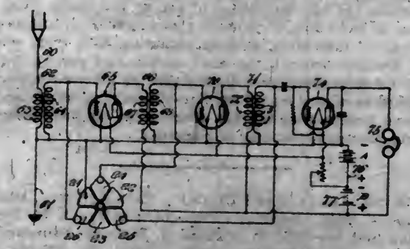


4. In a screen support of the type used with a swinging window sash, comprising retaining members secured in spaced relation upon the screen and having portions insertable into inwardly opening pockets formed in the frame for holding a portion of the frame in position upon the window frame, and supporting elements carried by the window frame and having inclined surfaces operable to guide the portions aforesaid of the retaining members into said pockets, said surface terminating in shoulders engageable with the retaining members to hold the remaining portions of the frame in position.

1,750,660. METHOD OF SELECTIVE ELECTRICAL TUNING. HAROLD N. BLISS, Ithaca, N. Y. Original application filed Nov. 4, 1924, Serial No. 747,846, Patent No. 1,588,438. Divided and this application filed May 18, 1926. Serial No. 109,902. 5 Claims. (Cl. 179—171.)

1. In an electrical tuning system, the combination of two or more stages each including cooperating elements whose position relative to each other determines the tuning, uni-control means for smoothly changing the relative positions of the cooperating elements within the various stages simultaneously to effect the broad tuning,

separately calibrated correctional means for one or more of said stages operating differentially to vary the relative position of the cooperating elements to accord with the individual corrections necessary to obtain accurate resonance, said correctional means being also operated by said



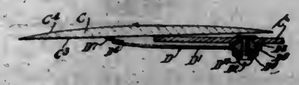
uni-control, whereby separate small corrections may be superposed differentially on the broad tuning simultaneously with the operation of the uni-control to afford a succession of accurate resonances in tuning from a uni-control.

1,750,661. CATHODE-RAY OSCILLOGRAPH. RALPH BOWN, Maplewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 22, 1928. Serial No. 263,875. 7 Claims. (Cl. 250—27.5.)



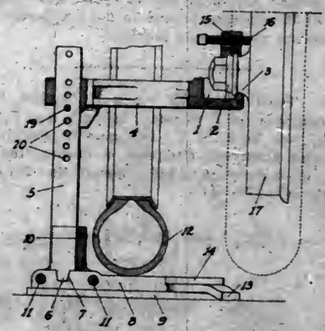
1. A cathode ray oscillograph tube provided with a screen at one end having a curved surface whose curvature is such that at least one plane intersection thereof will lie in a straight line.

1,750,662. SLICING MACHINE. WILLIAM J. CAMPBELL, Indianapolis, Ind., assignor to American Slicing Machine Company, Chicago, Ill., a Corporation of New York. Filed Jan. 19, 1929. Serial No. 333,652. 15 Claims. (Cl. 146—102.)



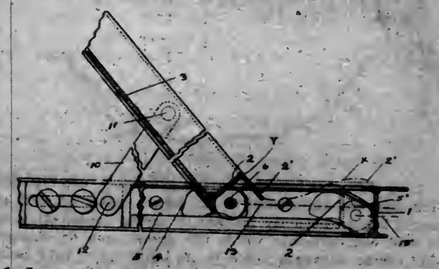
1. In a slicing machine, a knife and means for rotating it, and a scraper member adapted to engage the face of said knife, and a tiltable supporting and adjusting means for said scraper member, said supporting means including a generally spherical surfaced member.

1,750,663. AUTOMOBILE JACK. ROBERT H. DART, Sacramento, Calif. Filed Sept. 5, 1928. Serial No. 304,085. 7 Claims. (Cl. 248—2.)



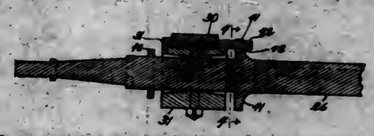
1. A wheel supporting structure comprising a base adapted to rest on the ground and project outwardly from a wheel in substantially parallel relation to the axis thereof, a vertical bar removably mounted on the base toward the outer end thereof, a horizontal arm in one end of which the bar is removably slidable said arm overhanging the base, a cradle rigid on the other end of the arm to detachably engage the hub of the wheel, and means on the bar for supporting the arm at different heights thereon.

1,750,664. SWINGING-WINDOW CONSTRUCTION. WILLIAM DREUSIKE, Oakland, Calif., assignor to United States Metal Products Co., San Francisco, Calif., a Corporation of California. Filed Dec. 18, 1928. Serial No. 326,758. 3 Claims. (Cl. 189—66.)



1. In a window of the swinging sash type a fixed frame, a sash fitting therein provided with a flange overlapping the frame, shoes at opposite edges of the sash, tracks provided whereby said shoes are slidable parallel with and along the frame, means pivotally connecting the shoes and sash at one edge of the sash so that the sash can swing open and closed with respect to the frame, and means for guiding said shoes to draw the pivoted edge of the sash toward the frame for seating said flange thereagainst upon closing the same, said shoes being formed to cooperate with the guiding means.

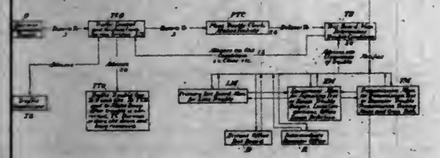
1,750,665. TRUCK CONSTRUCTION. ORLANDER W. FRY, Los Angeles, Calif., assignor to O. R. Fuller Co., Los Angeles, Calif., a Corporation. Filed Mar. 19, 1928. Serial No. 262,811. 2 Claims. (Cl. 280—106.5.)



1. In a motor vehicle having a frame, a driving axle, a parallel following rear axle, a leaf spring supporting each

side of the frame and with their front ends suitably supported on said driving axle, a bearing for mounting each spring on said rear axle having its central part formed so as to snugly surround the axle and with the lateral portions of the bearing formed to have a flaring opening so the axle can rock in said bearing.

1,750,666. TOLL CIRCUIT. LEE L. GLEZEN, Millburn, N. J., and MORTON J. STIGERS, Baldwin, and EDMUND R. TAYLOR, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed July 10, 1928. Serial No. 291,682. 14 Claims. (Cl. 179—41.)



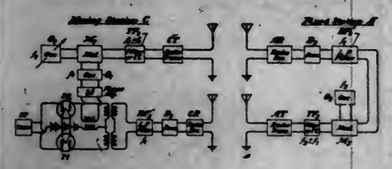
7. In a toll system, a toll line, an operator's toll board, said line being multipled to a plurality of positions of said toll board to enable operators to establish connections therewith, signaling and transmission elements associated with said line, a circuit control board and multiple connections from said line to a plurality of positions of said circuit control board, said multiple connections being associated with the line at a point between its connection to the toll board and said signaling and transmission elements.

1,750,667. CLASP FOR A BRACELET. HENRY GRASMERE, Newark, N. J., assignor to Krementz & Company, Newark, N. J. Filed Sept. 30, 1926. Serial No. 138,621. 4 Claims. (Cl. 24—71.)



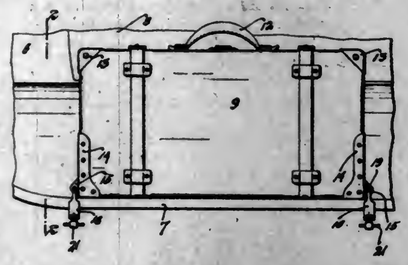
1. In a flexible bracelet having extensible, non-separable link elements interposed in its length, some of said elements being compactly foldable, a casing constituting one of said elements into which the others may be disposed, said casing having a notch in its outer wall; said casing having longitudinal slots in its side walls, a spring detent on one of said link elements to retain all of said elements firmly within the casing by engagement in the mentioned notch, projections extending through the slots in said casing and a corrugated knob on said detent to facilitate its release.

1,750,668. DETERMINING MOVEMENT AND POSITION OF MOVING OBJECTS. ESTILL I. GREEN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 8, 1927. Serial No. 238,546. 17 Claims. (Cl. 250—2.)



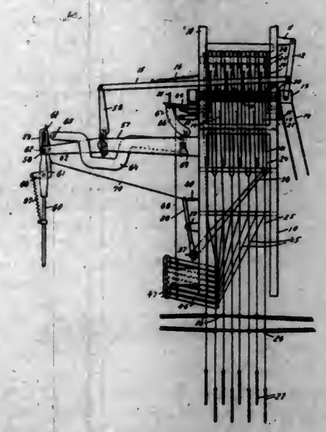
14. The method of ascertaining the position of a moving object, which consists in generating a frequency at the observing station, transmitting in both directions between the fixed and moving station frequencies whose phase is definitely related to the frequency generated at the observing station, comparing the phase of the frequency generated at the observing station with the phase of a frequency which has been shifted in phase by transmission, changing the effective phase of one of the waves with respect to the other to produce a measurable instantaneous change of indication, thereby obtaining data from which the distance between the fixed station and moving object may be determined, and making similar observations with respect to waves transmitted to the moving object and a second transmitting station whereby the absolute position of the moving object may be computed.

1,750,669. AUTO CASE CLAMP. PAUL J. HUBER, Minneapolis, Minn., assignor of one-third to Frank W. Peterson and one-third to William H. Wallraff, Minneapolis, Minn. Filed May 16, 1928. Serial No. 278,078. 3 Claims. (Cl. 224—29.)



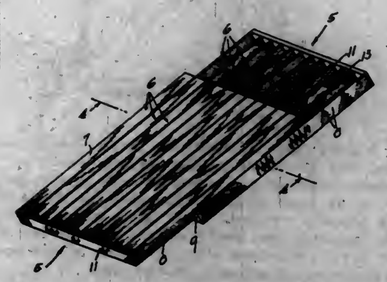
1. In combination with a case provided at its bottom with corner-reinforcing caps, a lug on each of said caps, a hole in each of said lugs, aligned with the hole in the other lug on its end of the case, U-shaped brackets each comprising a relatively long upper arm insertable through the aligned holes in the lugs on one side of the case, a relatively short lower arm, and a clamping device near the inner end of said lower arm and capable of engaging the under side of a suitable base of support upon which said case is to be secured.

1,750,670. JACQUARD MECHANISM. GEORGE HUNTER, Pompton Lakes, N. J. Filed Jan. 30, 1929. Serial No. 336,135. 19 Claims. (Cl. 139—59.)



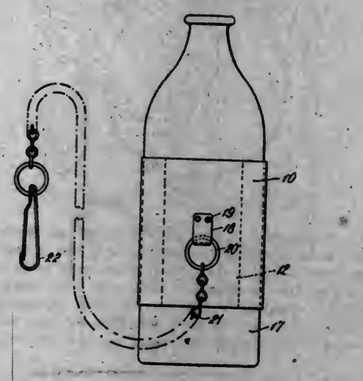
1. In a jacquard mechanism for looms, the combination of a plurality of needles and up-standers connected thereto, a card barrel, a single set of cards carried by the barrel, means for moving the barrel to bring the cards successively against the needles, means controlled by selected cards of the set for rendering the barrel-moving means inoperative, and means controlled by other cards of the set for acting on the up-standers to place them in position for the production of a ground shot shed.

1,750,671. ALLOY BLOCK FOR SOLDERING. FREDERICK W. KOCH, Oakland, Calif. Filed Nov. 20, 1928. Serial No. 320,594. 8 Claims. (Cl. 113—110.)



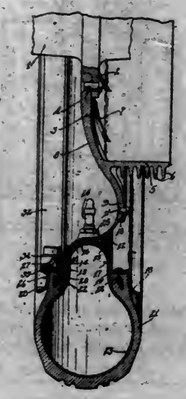
1. A set of solder bars disposed in parallel, spaced position, alongside each other and joined at an end thereof so as to allow the bending of each bar at its joint; each bar being of triangular cross section, the bases of the triangular bars being in alignment with each other to form a substantially continuous surface, the remaining sides of the adjacent triangular bars defining longitudinal troughs between the bars for receiving a complemental set of bars therein.

1,750,672. RECEPTACLE HOLDER AND GUARD. MAX KRISCHER, Brooklyn, N. Y., assignor to Krischer's Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 17, 1928. Serial No. 270,603. 3 Claims. (Cl. 215—11.)



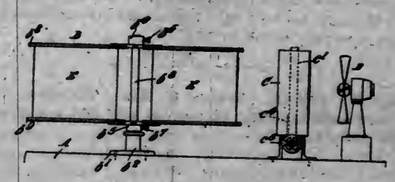
1. A receptacle holder comprising a permanently closed cylindrical sleeve to receive and encase the receptacle, this sleeve being made up of a pair of flexible sections extending lengthwise of the sleeve and together completing it cylindrically, one of these sections being distendable, and means attached to the non-resilient section for attaching the sleeve to a fixed object.

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8. Tire carrying means comprising, in combination, a rim having a central depressed portion approximately semicircular in cross-section and flanges extending laterally from said depressed portion, said flanges adapted to support the side walls of a tire casing, the rim depression adapted to nest an inflated inner tube, said rim having at one side a substantially radially extending tire supporting flange and at its other side a detachable ring adapted to support one side of a tire casing, said ring provided with a part fitting under one laterally extending flange, and radially expansible means for locking the detachable ring in place.

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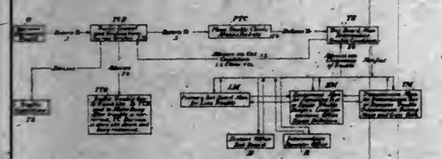
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3. A beverage dispensing and cooling box comprising a box having a lid, a cooling compartment in the box, a

side of the frame and with their front ends suitably supported on said driving axle, a bearing for mounting each spring on said rear axle having its central part formed so as to snugly surround the axle and with the lateral portions of the bearing formed to have a flaring opening so the axle can rock in said bearing.

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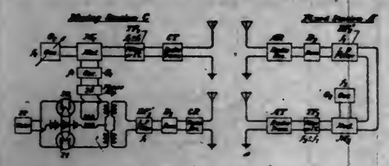
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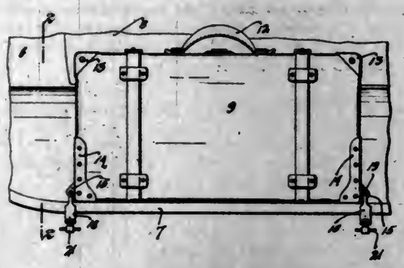
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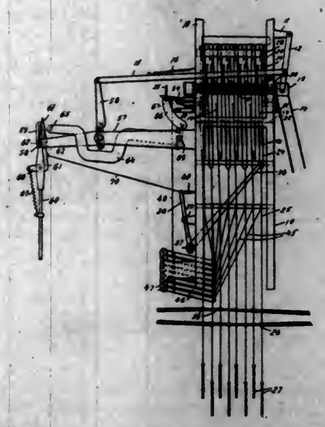
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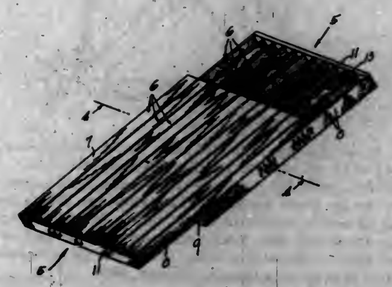
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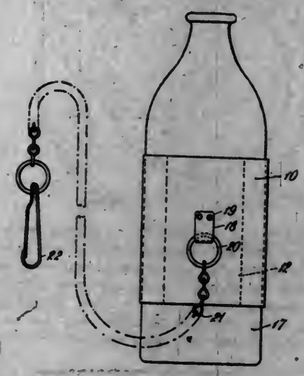
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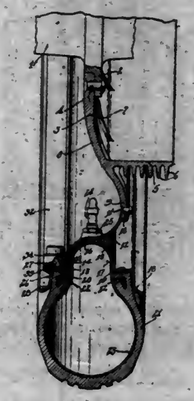
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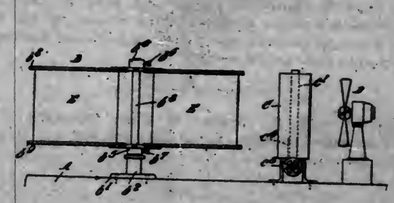
1. A receptacle holder comprising a permanently closed cylindrical sleeve to receive and encase the receptacle, this sleeve being made up of a pair of flexible sections extending lengthwise of the sleeve and together completing it cylindrically, one of these sections being distendable, and means attached to the non-resilient section for attaching the sleeve to a fixed object.

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8. Tire carrying means comprising, in combination, a rim having a central depressed portion approximately semicircular in cross-section and flanges extending laterally from said depressed portion, said flanges adapted to support the side walls of a tire casing, the rim depression adapted to nest an inflated inner tube, said rim having at one side a substantially radially extending tire supporting flange and at its other side a detachable ring adapted to support one side of a tire casing, said ring provided with a part fitting under one laterally extending flange, and radially expansible means for locking the detachable ring in place.

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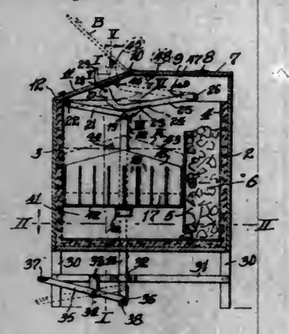


1. A drying apparatus of the class described having in combination, a stationary spindle, a frame revolubly mounted on said spindle and having vertically spaced upper and lower radial arms, said upper and lower arms having opposed grooves, print supporting plates slidably mounted in said grooves, and an air impeller positioned to one side of said frame for causing a current of air to impinge in a tangential direction against said plates whereby to rotate the frame and dry the prints on the plates.

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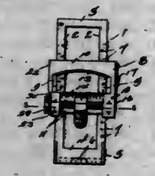
3. A beverage dispensing and cooling box comprising a box having a lid, a cooling compartment in the box, a

tray in said compartment, a pair of bars extending upwardly into the box each having its upper end bended downwardly and secured to said tray, a lever mechanism



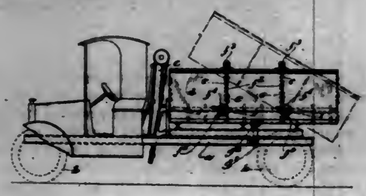
cooperable with said bar adapted to raise said bars and elevate said tray, and lifting means cooperable with said bars and said lid for opening said lid when the tray is elevated.

1,750,676. GUN SIGHT. CHARLES E. LYMAN, Jr., Middlefield, Conn. Filed July 6, 1928. Serial No. 290,796. 3 Claims. (Cl. 33—56.)



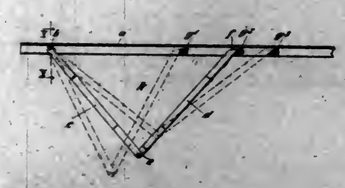
1. A gun sight comprising a sight leaf, a peep sight carrier having side bars notched to receive and slide upon the sight leaf, a pair of spaced bars horizontally of the carrier, a peep sight having a groove and a notch, the groove to receive one horizontal bar to support the peep sight, and the notch to engage and slide on the other horizontal bar, and a screw adjusting member for the peep sight arranged between said horizontal bars and journalled in the side bars of the carrier.

1,750,677. TRUCK. ROBERT D. MARX, Brooklyn, N. Y. Filed Aug. 3, 1928. Serial No. 297,358. 2 Claims. (Cl. 298—1.)



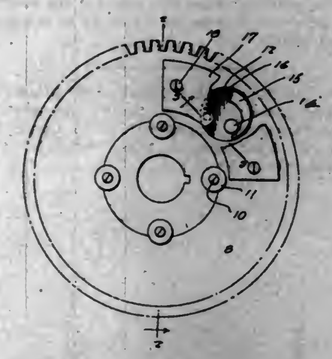
1. The combination in a truck of a supporting frame, a truck body tiltable to the rear, means to tilt the body to the rear, a floor for the body tiltable to the side independently of the body, a transverse partition comprising a relatively fixed portion spaced at its lower edge from the floor and a relatively movable portion adapted to rest normally on the floor, said partition forming compartments in the body, and means to raise the movable portion from the floor.

1,750,678. SUPPORTS OF ARTICLES SUCH AS FURNITURE AND THE LIKE. FRITZ MENG, Bern, Switzerland. Filed Mar. 30, 1928, Serial No. 266,019, and in Switzerland Apr. 12, 1927. 2 Claims. (Cl. 155—151.)



1. Supports, for an article, each thereof comprising two struts that slant downwardly towards each other, and pivotally connected at their lower ends against one another at an angle which is adjustable, one of the struts being pivotally connected at its upper end to the article being supported, and means whereby the free end of the other strut is adjustable along the article to be supported for the purpose of adjusting its elevation.

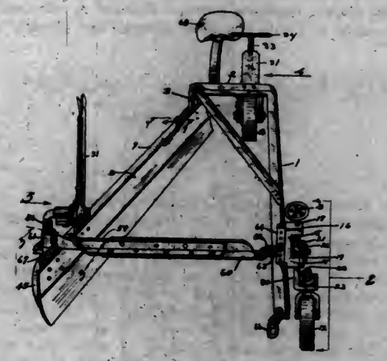
1,750,679. GEAR. HAROLD U. MITCHELL, Medford, Oreg. Filed May 5, 1928. Serial No. 275,442. 1 Claim. (Cl. 74—28.)



In combination, a gear having peripheral teeth and provided with an annular concentric shoulder, a ring movable about the shoulder and having peripheral teeth associated with the first mentioned teeth, said ring being provided with an opening, a pin on the gear extending in the opening, a wedge between the pin and one wall of the opening, and a spring impinging against the wedge.

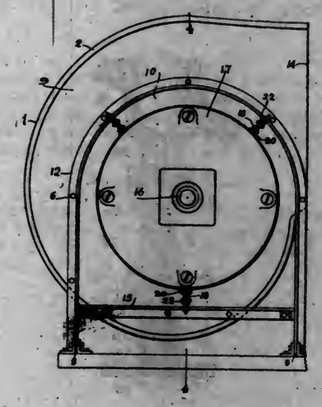
1,750,680. DITCHING MACHINE. ANTONIO MONTANO, La Jara, Colo., assignor of one-half to Belarmino Gonsales, La Jara, Colo., and one-sixth to Eugenio R. Romero, Antonito, Colo. Filed Apr. 9, 1929. Serial No. 353,863. 4 Claims. (Cl. 37—178.)

1. In a device of the class described, in combination, a frame comprising an L-shaped member, a ditching blade, means for attaching one end of the blade directly to the outer end of the short leg of the frame member, means for adjustably connecting the blade to the other end of the



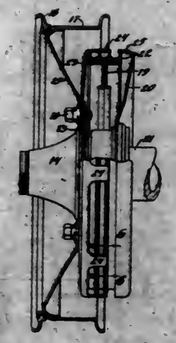
frame and means for independently raising and lowering both ends of the blade with respect to the supporting surface on which the device rests.

1,750,681. BLOWER. CLARK T. MORSE, Detroit, Mich., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 22, 1927. Serial No. 221,375. 4 Claims. (Cl. 230—132.)



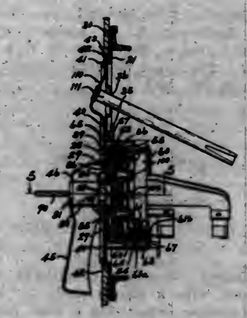
1. In a blower, a sheet metal scroll, sheet metal side walls, a fan within the side walls and scroll, inverted, U-shaped, angle iron, reinforcing members mounted on said side walls, a motor flexibly suspended from one of said U-shaped supports having its armature shaft projecting within said scroll through one of said side walls and the fan mounted thereon in such a manner that the fan and armature shaft as well as the motor do not touch the side walls or the scroll.

1,750,682. BRAKE-DRUM CONSTRUCTION. EMIL A. NELSON, Detroit, Mich. Filed Apr. 16, 1928. Serial No. 270,179. 10 Claims. (Cl. 188—218.)



1. In combination, a brake drum comprising a ring open at both ends, and means for externally supporting said ring between the edges thereof.

1,750,683. LIGHTING AND IGNITION SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 15, 1925. Serial No. 23,245. 23 Claims. (Cl. 200—14.)

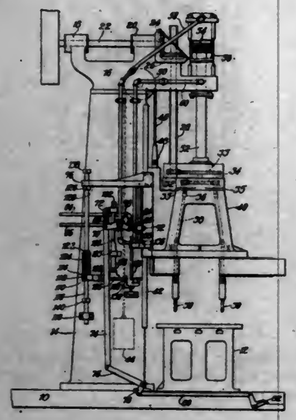


1. An electric switch comprising, in combination, a case including a nonconducting member carrying a battery terminal, a plurality of lamp terminals and an ignition terminal, stationary contacts connected with said terminals, a movable contact for connecting the battery and ignition terminals, and a movable contact for connecting certain of the lamp terminals with the battery terminal independent of movement of the first movable contact, and for connecting other of the lamp terminals with the battery terminal only when the first movable contact connects the battery and ignition terminals and is so maintained.

1,750,684. HYDRAULIC FEED MECHANISM FOR DRILLING MACHINES. JOHN OAKLEY, Springfield, Mass., assignor to Baush Machine Tool Company, Springfield, Mass., a Corporation of Massachusetts. Filed Nov. 16, 1925. Serial No. 69,232. 2 Claims. (Cl. 77—32.)

1. The combination with a drill head, of a fluid motor for moving the latter, a valve controlling the rate at which fluid pressure is supplied to said motor and means

for shifting the valve to admit fluid at a fast rate to cause the head to rapidly approach the work and means for automatically shifting the valve to cause the head to feed the drills into the work at a slower rate, a member arranged to store energy as the drill head moves, and devices co-



acting with said member and said valve arranged to release the stored energy and transmit movement to said valve after the drills have travelled a predetermined distance into the work so as to cause the fluid motor to rapidly retract the drill head from the work.

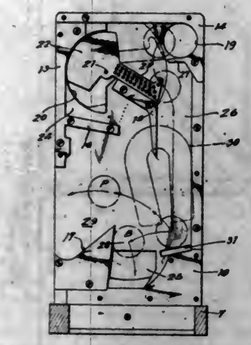
1,750,685. OPHTHALMIC MOUNTING. WILLIAM ROBERT OLSEN, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 29, 1926. Serial No. 84,759. 7 Claims. (Cl. 88—53.)



1. An ophthalmic mounting comprising a non-metal member provided with a substantially flat-bottomed recess, a hinge member comprising a base portion having two oppositely disposed sides, one of the sides being substantially flat, the hinge member lying in the recess with the said one side in contact with the bottom of the recess, the hinge member having an integral projection extending from the said one side and into the non-metal member through the said bottom, the hinge member having an integral attachment member extending from the said one side into the non-metal member, the hinge member having a hinge knuckle disposed on the other of the said two sides, the hinge member having a threaded opening extending through the hinge member between the said two sides and through the projection, and a screw extending through the non-metal member and the hinge member and threaded into the threaded opening for securing the non-metal member and the hinge member together, the screw being upset.

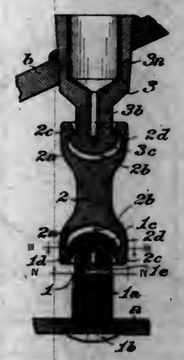
1,750,686. COIN SELECTOR. JAMES E. OLVIS, Los Angeles, Calif. Filed Jan. 28, 1929. Serial No. 335,501. 2 Claims. (Cl. 194—103.)

1. An apparatus of the class described including a coin inlet, a primary passage in registration with the inlet for the descent of a coin therethrough by gravity, a tiltable weight classifier having a channel for passage of coins therethrough with its intake end disposed intermediate said inlet and primary passage to arrest coins introduced therein and to be tilted by a proper coin to deliver it to said primary passage, a secondary passage in registration with the outlet of said channel for reception of underweight coins, a magnetic retarder disposed to influence the acceleration of a coin travelling through said primary pas-



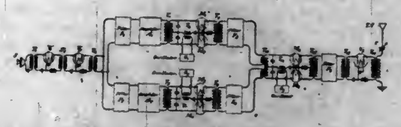
sage, a rebound buffer disposed in the path of travel of a descending coin in said primary passage so as to hurl the coin laterally, and spaced rejection and reception passages disposed laterally of said buffer, said rejection passage being adjacent to said buffer and said reception passage remote from said buffer whereby a proper coin will be hurled over said rejection passage into said reception passage and an improper coin will fall short of said reception passage and be hurled into said rejection passage.

1,750,687. STEAM-BOILER STAY BOLT. ARTHUR F. PITKIN, Schenectady, N. Y. Filed Oct. 29, 1927. Serial No. 229,612. 4 Claims. (Cl. 85—1.5.)



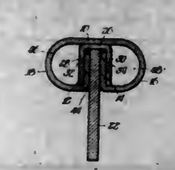
1. An articulated staybolt having opposed end portions adapted to be secured respectively in the inner and outer sheets of a steam boiler, and a tension resisting intermediate section having a substantially flat face at each end, said end portions being provided at one end thereof with a substantially flat face engaging a corresponding face of the tension resisting section when in the assembled position, said co-acting faces providing a rocking relative movement between the end portions and the tension resisting intermediate portion without creating relative sliding movement.

1,750,688. SIGNALING SYSTEM. RALPH K. POTTER, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 3, 1927. Serial No. 230,908. 11 Claims. (Cl. 179—1.)



1. The method of transmission of waves having a band of frequency components, which comprises dividing said band into a plurality of sub-bands which overlap each other, modulating said sub-bands on a plurality of carrier waves of different frequencies, one corresponding to each sub-band, so as to produce a plurality of side bands within substantially the same frequency limits as were occupied by these sub-bands before modulation though separated from each other in the frequency spectrum, and transmitting all of said spaced side bands simultaneously.

1,750,689. SKATE-RUNNER SUPPORT AND METHOD OF MAKING SAME. GUSTAV E. SCHMIDT, Chicago, Ill. Filed Jan. 23, 1928. Serial No. 248,683. 19 Claims. (Cl. 208—167.)



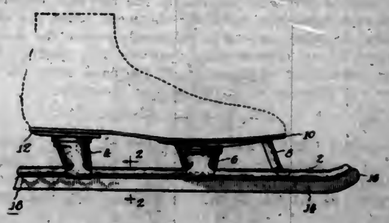
1. In an ice skate, the combination of a tubular support carrying the usual foot and toe plate cups, said support being formed of sheet metal and constructed and arranged to provide a longitudinal socket having tubular members arranged in covering relation on each side thereof and a skate runner mounted in said socket.

1,750,690. TUBULAR SUPPORT FOR SKATE RUNNERS AND PROCESS. GUSTAV E. SCHMIDT, Chicago, Ill. Filed Jan. 23, 1928. Serial No. 248,684. 9 Claims. (Cl. 208—167.)



1. An ice skate having a tubular support formed of sheet metal, said sheet metal being bent to provide spaced apart tubular portions extending longitudinally of the support, the adjacent walls of the tubular portions being interfolded and arranged to provide a pocket extending longitudinally of and between the tubular portions, and a skate runner seated in said pocket and permanently mounted therein.

1,750,691. TUBULAR SUPPORT FOR SKATE RUNNERS AND PROCESS. GUSTAV E. SCHMIDT, Chicago, Ill. Filed Jan. 24, 1928. Serial No. 249,045. 9 Claims. (Cl. 208—167.)



1. An ice skate having a support formed of an integral tube of sheet metal having a reentrant pocket and a runner mounted in said pocket.

1,750,692. SKELETON STRUCTURE SUCH AS AIRCRAFT FUSELAGE. FREDERICK SIGRIST, Oxshott, and SYDNEY CAMM, Long Ditton, England. Filed Feb. 25, 1928, Serial No. 256,886, and in Great Britain Dec. 23, 1927. 2 Claims. (Cl. 244—31.)



2. A skeleton structure such as a fuselage for aircraft, comprising a metal tubular member, another metal tubular member with its end abutting the first mentioned member intermediate its ends to constitute a joint, the second member being of a different diameter at its joint end from that of the other portion thereof, an inverted U-shaped clamping plate embracing at its closed end, the first mentioned member, the arms of said plate projecting over the end of the second mentioned member, a single bolt for the opposite sides of the clamping plate and first mentioned tubular member, and further fastening means for securing the sides of the clamping plate to the second tubular member.

1,750,693. SWITCH. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 15, 1927. Serial No. 184,077. 6 Claims. (Cl. 200—169.)



1. In an electric switch having an upper and lower contact, a movable switch element and means pivotally

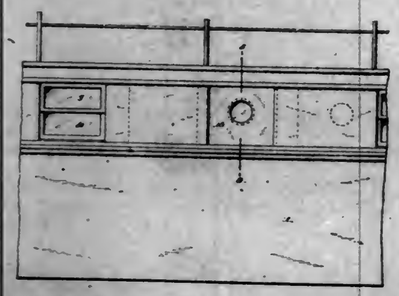
mounting the movable switch element for selective engagement with either of the contacts, a member carried by the mounting means adjacent the pivotal mounting of the movable switch element, an abutment on said member, and a pawl pivotally carried by the movable switch element and engageable with the abutment when the switch element is slowly moved to releasably secure the movable element in an intermediate position, the inertia of the parts preventing engagement of the pawl with the stop when the element is quickly moved therepast.

1,750,694. DRIVE RING. EVERETT ST. JOHN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 24, 1925. Serial No. 77,642. 1 Claim. (Cl. 248—36.)



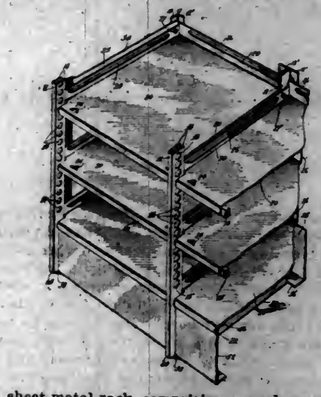
A drive ring comprising a piece of wire material of which one end forms a shank portion, said material being bent at substantially right angles at the upper end of the shank to form a horizontal portion of which the end is bent to form an open ring, said open ring extending upwardly from the horizontal portion and in offset relation to the plane thereof, the wire being also bent at the juncture of the shank and horizontal portion to form a substantially semi-circular loop portion of uniform cross-section extending outwardly and upwardly from the shank and horizontal portions, the curved uppermost portion of said loop forming a striking surface positioned in alinement with the axis of the shank and elevated above said horizontal portion so that hammer blows may be applied thereto to transmit a direct driving force to said shank without striking said horizontal portion, and said ring being spaced sufficiently far to one side of the axis of said shank to allow clearance for the hammer and permit of striking the upper surface of said loop portion without hitting said ring, the outwardly extending portion of said loop also forming a shoulder to enter the surface of a supporting wall and interlock therewith to prevent the rotation of the drive ring when it is positioned.

1,750,695. PROTECTED WINDOW FOR SHIPS' HULLS. JOHN TRUMPY, Haddonfield, N. J., assignor to Mathis Yacht Building Company, a Corporation of New Jersey. Filed Dec. 28, 1928. Serial No. 328,944. 11 Claims. (Cl. 114—177.)



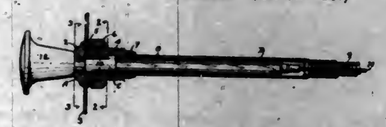
1. A ship's hull provided below the deck thereof with a window having a sash, and a shutter closing the window exteriorly of the sash and removable to and from such position and provided with a deadlight.

1,750,696. SHEET-METAL RACK. WALTER N. VANCE, Chicago Heights, Ill., assignor, by mesne assignments, to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed May 16, 1927. Serial No. 191,584. 18 Claims. (Cl. 211—135.)



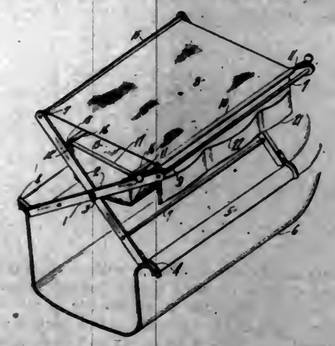
2. A sheet metal rack, comprising spaced apart U-shaped front uprights and rear uprights, each of said U-shaped uprights having a vertical series of spaced apart slots, each slot being rectangular in shape and having opposed arcuate portions, bearers for engaging in said slots, each bearer having arcuately notched ends to correspond with the opposed arcuate portions of a slot, whereby a bearer may be inserted in a slot and angularly turned and locked in position, and shelf members mounted on said bearers.

1,750,697. CONTROLLING DEVICE. ALBERT J. WEATHERHEAD, Jr., Cleveland, Ohio. Filed May 25, 1929. Serial No. 365,964. 10 Claims. (Cl. 74—39.)



1. A controlling device, substantially as herein described, comprising a tubular fitting having a reciprocable control rod extending therethrough, and a flat spring outlet housed within said fitting and completely encircling and gripping said rod equally at different radial places therein.

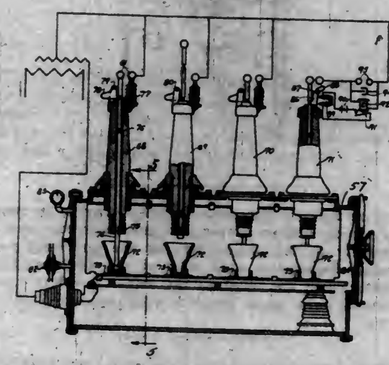
1,750,698. INFANT'S BATH AND DRIER. WELCOME FREDERICK ABBOTT, Mount Vernon, Ill. Filed Aug. 3, 1928. Serial No. 297,168. 2 Claims. (Cl. 4—177.)



1. In a device of the kind described, two spaced end frames each made up of two bars pivoted together medially

and having hooked feet for engaging the rim of a bath tub, two upper and two lower connecting tie rods extended longitudinally between the two spaced end frames, a flexible dressing or drying sheet having one margin fastened to one of the said upper tie rods, a free supporting rod fastened to the opposite margin of the said drying sheet, latches arranged near the upper ends of the two end bars opposite to the other two end bars supporting at one margin in the said drying sheet, the said latches being adapted to releasably engage the said free supporting rod carrying the opposite margin of the said drying sheet.

1,750,699. PROCESS AND APPARATUS FOR TESTING INSULATORS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 2, 1922. Serial No. 579,133. 12 Claims. (Cl. 175—183.)



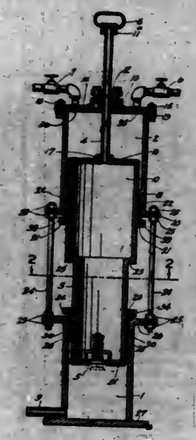
1. An insulator testing device, comprising a housing, means for supporting an insulator within said housing, a pair of terminals for subjecting said insulator to electric pressure while within said housing, and means for supplying air pressure to the interior of said housing, said terminals being separated at their point of closest approach by said insulator when in test position.

1,750,700. ALLOY. PIERRE BERTHÉLEMY and HENRY DE MONTBY, Paris, France. Filed Aug. 9, 1927, Serial No. 211,849, and in France May 20, 1927. 2 Claims. (Cl. 75—1.)

1. In the art of introducing cadmium into an alloy having an aluminum base, that step in the art which consists in adding the cadmium intermixed with aluminum and magnesium so that the cadmium is incorporated in the alloy in the form of a uniformly distributed solid solution, the proportion of cadmium in the final alloy being not less than .2%.

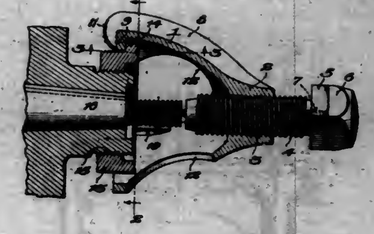
1,750,701. PRESSURE-FEED LUBRICATOR. WALTER BRAUER, Seminole, Okla. Filed Oct. 17, 1928. Serial No. 313,123. 6 Claims. (Cl. 184—39.)

1. A device of the class described, comprising an oil cylinder at its lower end adapted for feeding oil to parts to be lubricated, and a larger vertically alined cylinder at its upper end adapted for delivering steam to a pressure plunger, a hollow plunger adapted for holding oil and for reciprocation within said lower and upper cylinders, a filler pipe and gauge pole in its upper end adapted for filling said plunger and gauging said device, the upper end of said plunger being adapted for receiving pressure within said steam cylinder and its lower end being adapted for delivering pressure on the oil in said oil cylinder, spacer



and holding means for holding said upper and lower cylinders apart and in vertical alinement and for holding said plunger in reciprocating relationship with said cylinders.

1,750,702. WHEEL PULLER. FREDERICK CARL, Washington, D. C. Filed Oct. 16, 1925. Serial No. 62,894. 10 Claims. (Cl. 29—85.)

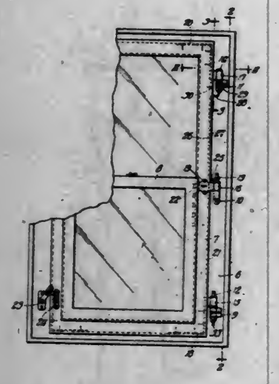


1. A wheel puller, comprising a hollow pulling member open at one end and having a feed screw extending through its opposite closed end, and an adapter provided with means for detachable connection with a wheel, one end of the adapter having a plurality of external lugs distributed equally around the adapter, the external diameter of the lugged portion of the adapter being less than the internal diameter of the open end of the pulling member so as to be received within the latter, and the pulling member having internal lugs spaced equally around the pulling member and disposed to be engaged with the rear faces of the lugs on the adapter, and reinforcing abutments extending longitudinally upon the interior of the pulling member and disposed for engagement with corresponding ends of the lugs on the adapter.

1,750,703. WINDOW CONSTRUCTION. GUSTAV RICHARD CARL, Chicago, Ill. Filed Apr. 29, 1929. Serial No. 358,967. 6 Claims. (Cl. 20—53.)

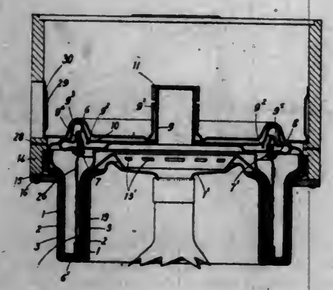
1. A device of the character described, a window casing, a window and means connecting said window to said casing for swinging movement about a horizontal and about a vertical axis comprising hinge members at one side of

said window having pins movable from a position permitting horizontal swinging of said window to a position permitting swinging of said window about a horizontal,



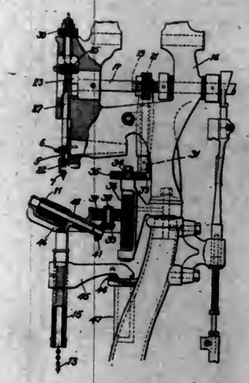
and means connecting a pair of said pins, said means being concealed in the frame of said window between said pins.

1,750,704. APPARATUS FOR THE PREPARATION OF CINEMATOGRAPHIC FILMS. LOUIS CAUTE, Ezanville, France, assignor to Louis Henry, Changai, China. Filed Apr. 26, 1928, Serial No. 273,132, and in France May 3, 1927. 3 Claims. (Cl. 95—90.5.)



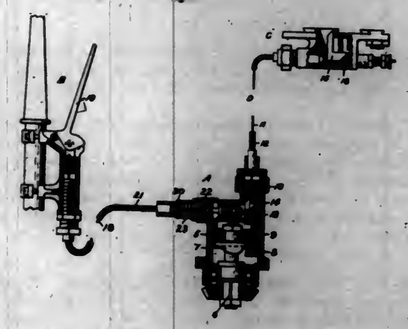
1. An apparatus utilizable in full light for the preparation of cinematographic films, comprising in combination a set of vessels having an annular form and fitting into one another, the outer vessel being disposed as to form near its centre a discharge outlet, a sleeve forming a partition placed between the inner vessel and the vessel immediately next the said inner vessel, an upper downturned flange on the said partition leading to the discharge outlet of the outer vessel, a drum upon which is wound the film to be treated removably disposed inside the inner vessel, a light-proof cover fitting with a light-tight joint over the said vessels, means connecting the film-drum to the cover, means for rotating the said drum about its axis exteriorly to the said cover, a dark chamber removably disposed upon the set of vessels, and in which the film drum may be removed from the set of vessels, a device exteriorly disposed on the side of the said chamber and allowing the film to be treated to be wound in the dark chamber on the film-drum.

1,750,705. NAIL-BEDDING MACHINE FOR CLOG MAKING. GEORGE CHIASSON, known as Chisholm, Paris, France, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 17, 1928, Serial No. 270,767, and in Great Britain Apr. 26, 1927. 17 Claims. (Cl. 1—19.)



1. A machine of the class described, having in combination a reciprocatory driver, and guiding means movable transversely to the driver path at the operating point and being disposed on both sides of the driver and acting continuously to constrain the driver to follow a predetermined path upon grooved work presented to the machine.

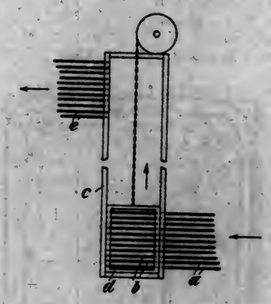
1,750,706. SYNCHRONIZED CONTROL SYSTEM FOR MACHINE GUNS. RICHARD C. COUPLAND, U. S. Army, Norfolk, Va. Original application filed Aug. 1, 1927, Serial No. 209,893. Divided and this application filed Nov. 6, 1928. Serial No. 317,553. 2 Claims. (Cl. 89—27.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. An impulse generator for synchronizing gear, including a housing having means for the interchangeable attachment of either mechanical or electrical control.

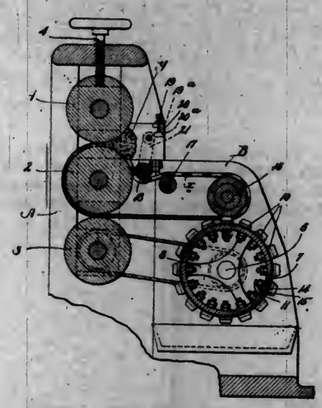
2. An impulse generator embodying an impulse transmitting member and a plunger for holding said member inoperative including means for adjusting said plunger.

1,750,707. MATRIX-SETTING AND LINE-CASTING MACHINE. JULIUS DORNETH, Konradshohe, near Tegel, Germany, assignor to the Firm Typograph G. m. b. H., Berlin, Germany. Filed Dec. 26, 1928, Serial No. 328,451, and in Germany Aug. 9, 1928. 3 Claims. (Cl. 199—4.)



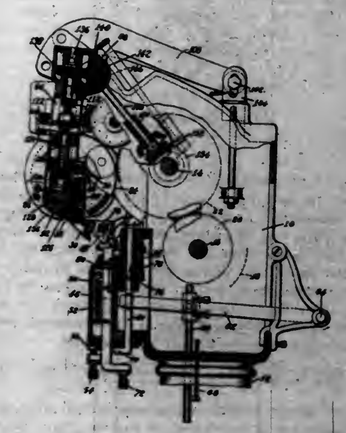
1. In a matrix-setting and line-casting machine a frame, wires guiding the matrices, pins on the ends of the wires, holders for the pins, each holder consisting of a folded sheet metal forming in the middle an eye for receiving the pin and a right-angle bent portion secured to the frame.

1,750,708. MEANS FOR DIEING-OUT RUBBER HEELS. ARTHUR J. EDWARDS, Cambridge, Mass., assignor of one-half to George N. Goddard, Newton, Mass.; Patrick E. Edwards administrator of said Arthur J. Edwards, deceased. Filed June 11, 1926, Serial No. 115,401. Renewed July 3, 1928. 3 Claims. (Cl. 164—28.)



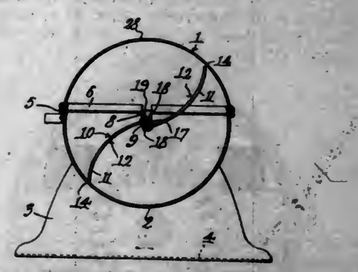
1. In a machine for dieing out heel blanks from a sheet rubber composition while in a plastic condition, the combination of a bed-roll arranged to receive the plastic sheet as formed by a calender, a revolving series of hollow blank-cutting dies mounted to have rolling contact with the periphery of said bed-roll to cut out blanks of appropriate size and contour from the interposed plastic sheet, yielding plungers fitting the contours of said dies and normally pressed outward to substantially flush relation with the cutting edges of their respective dies to exert a predetermined yielding pressure upon the opposed blank-forming areas of the sheet and acting to expel the several blanks from the dies.

1,750,709. MACHINE FOR OPERATING UPON SHOES. ANDREW EPPLER, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 22, 1927. Serial No. 241,926. 24 Claims. (Cl. 12—88.)



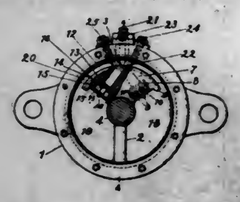
1. A machine for operating upon a shoe having a projecting shoe margin comprising a sole margin and a sole attaching flange of non-uniform thickness having, in combination, a reducing knife, work feeding means arranged to support the sole margin, and a feed member for engaging the sole attaching flange and co-operating with said means to feed the work past the knife to cause the knife to reduce the thickness of the sole margin to compensate for variations in the thickness of the sole attaching flange, said feed member being capable of yielding during the feeding of the work to accommodate portions of different thickness.

1,750,710. DOUGH MIXER AND BREAKER. HENRY GANS FAIN, Little Rock, Ark. Filed Jan. 23, 1928. Serial No. 248,881. 1 Claim. (Cl. 259—109.)



In a device of the class described, a receptacle including a body, plate-like standards secured to the ends of the body, the upper ends of the standards being formed into depending reinforcing flanges, the ends of the body, the standards, and the flanges, being supplied with bearing notches, a rotor movable in the body, a shaft carrying the rotor and journaled in the bearing notches, keepers mounted on the reinforcing flanges, pivot elements carried by the said flanges, and latches cooperating with the shaft to hold it for rotation in the bearing notches, the latches being detachably engaged with the keepers, and being mounted to swing on the pivot elements.

1,750,711. SHOCK ABSORBER. HENRY O. FLETCHER, Bridgeport, Conn. Filed Dec. 31, 1924. Serial No. 759,069. 8 Claims. (Cl. 188—89.)



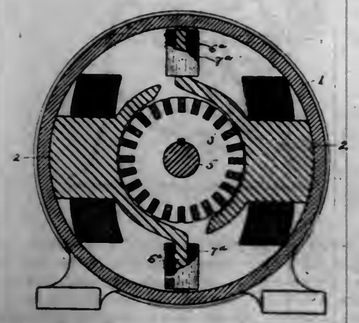
1. In a shock absorber, two members relatively movable in relation to each other, one of said members constituting a liquid container and the other member dividing said container into two chambers, means to permit free passage of the liquid from one chamber to the other during the relative movement of the two members in either direction away from their normal position, means to restrict the flow of the liquid to a passage varying in size as they return in either direction toward their normal position, and means to adjust the size of said passage.

1,750,712. HEEL LIFT. BENJAMIN GILOWITZ, New York, N. Y., assignor of one-fourth to Samuel Thau, New York, N. Y. Filed Aug. 16, 1928. Serial No. 300,024. 3 Claims. (Cl. 36—35.)



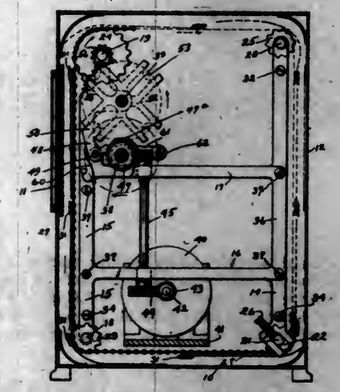
1. A heel lift, an attaching plate secured to said lift, said plate and lift having alined fastener-receiving openings, and an upstanding relatively long and narrow flange on the front end of said plate adapted to abut the breast of a shoe heel, said flange having free horizontally projecting ends adapted to be cut off in accordance with the width of the shoe heel.

1,750,713. VOLTAGE-REGULATION WINDING FOR ELECTRIC GENERATORS. EDWARD A. HOBART, Troy, Ohio. Filed June 18, 1923. Serial No. 646,109. 10 Claims. (Cl. 171—223.)



1. A generator comprising a field including a frame and pole pieces, an armature, diverting means arranged to divert magnetism from the pole pieces around the armature instead of through it, and means acting automatically to vary the amount of magnetism so diverted in accordance with changes in the amount of generated current, said diverting means being so constructed that there is no substantial increase in diverted magnetism and no substantial decrease in the main field strength upon reversal of current when the generator acts as a motor, whereby the generator may safely operate as a motor without excessive speed.

1,750,714. CHANGEABLE SIGN. FRED L. HOLT, Winston-Salem, N. C., assignor of one-half to John T. Benbow, Winston-Salem, N. C. Filed Jan. 31, 1929, Serial No. 336,491. Renewed Jan. 31, 1930. 2 Claims. (Cl. 40—97.)



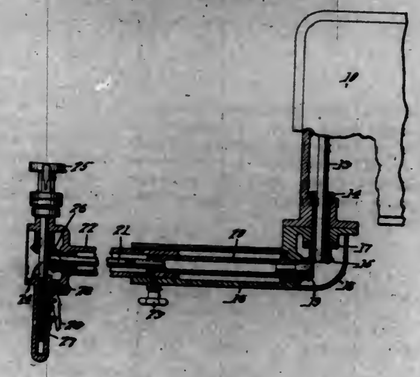
1. In an exhibiting machine, a casing, a window in said casing, a framework in said casing, four transversely disposed shafts in said framework, a Geneva stop movement, a wheel associated with said Geneva stop movement, teeth on the periphery of said wheel, a pinion on one of said transversely disposed shafts adapted to be engaged by said teeth, means for imparting movement to said Geneva movement, means for preventing movement of the said Geneva movement when the first-named operating means are inoperative, sprockets on the said transversely disposed shafts, continuous sprocket chains mounted on the said sprockets, and means on said sprocket chains for detachably securing objects for exhibition.

1,750,715. WINDOW REGULATOR. CLARENCE E. JEFFERS, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a Corporation of Delaware. Filed Apr. 9, 1927. Serial No. 182,343. 3 Claims. (Cl. 292—228.)



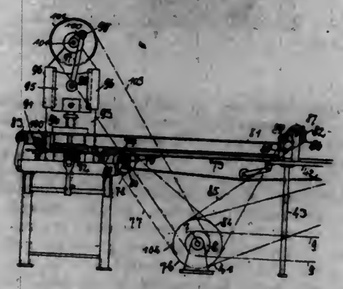
1. The combination with a vehicle door having a well therein, a sliding pane, a bracket carried by said pane, a vertically disposed rack in said well, a pintle carried by said bracket, a rocking latch, offset ears on said latch having apertures therein through which said pintle passes, a pawl carried by said latch, resilient means normally maintaining said pawl in operative relation with the rack, a stop projecting from said latch, a control lever pivoted on said pintle intermediate said ears, said control lever having a portion to engage said stop upon a lifting thereof to disengage the ratchet from said rack.

1,750,716. BOX-FORM ATTACHMENT FOR COVERING MACHINES. FREDERICK A. JONES and GEORGE W. KLAUCKE, Worcester, Mass., assignors to Hobbs Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 18, 1928. Serial No. 278,809. 4 Claims. (Cl. 93—54.)

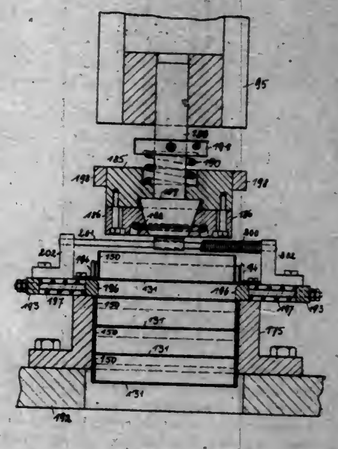


1. In a box covering machine, the combination of an arm pivotally mounted on the machine, a telescoping arm slidably connected therewith and means on the second arm for supporting a box form head thereon, with a telescoping shaft, means for rotating the telescoping shaft and a spindle carried by the telescoping arm for rotating said head which is geared to the telescoping shaft.

1,750,717. BOX-MAKING MACHINE. CLEMENS OTTO KURT LAUBE, deceased, Dresden, Germany, by Friedrich Bernhard Fischer, executor, Dresden, Germany. Filed Jan. 26, 1927, Serial No. 163,813, and in Austria Nov. 29, 1926. 7 Claims. (Cl. 93—55.)

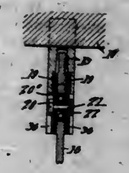


1. A machine for the manufacture of cardboard boxes with inserted border tenon strips comprising a two-part conveyor device for the conveyance of the box member containing the border tenon strip, a locking device, and a movable stop coupled to the locking device, the two-part conveyer device for the box members containing the border tenon strips consisting of a conveyer belt (73) to carry the box member and a second conveyer belt (81) adapted to engage the border tenon strip from above, and press it into the correct position on the bottom of the box member, the belt (81) extending beyond the belt (73) and guiding the box right up to the movable stop coupled to the locking device, and the machine further comprising a table (90) forming a continuation of the upper side of the conveyer belt (73).



6. A machine for the manufacture of cardboard boxes with inserted border tenon strips comprising a press, and a lower stamp and an expansible upper stamp in said press, the lower stamp of the press being a rectangular through-jacket (175) without a bottom whereby the border tenon strips are pressed against the side walls of the box bottom to make a firm union.

1,750,718. SCORING WHEEL. CHARLES S. LENSTON, Worcester, Mass., assignor to Hobbs Manufacturing Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1927. Serial No. 220,004. 5 Claims. (Cl. 164—70.)

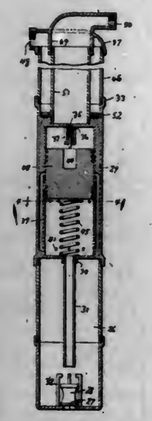


1. In a supporting device for a circular scorer, the combination with a support having an opening providing opposite cheeks, a holder arranged to fit against the inner sides of the opposite cheeks, a ball bearing having an inner race just fitting in the holder and an outer race narrower than the inner race, and a circular scorer fixed to said outer race.

1,750,719. COMPRESSED-AIR PUMP. CLAUD C. MARTIN, Hillsboro, Tex., assignor of one-half to Thos. W. Mitchell, Hillsboro, Tex. Filed Dec. 8, 1928. Serial No. 324,708. 2 Claims. (Cl. 103—234.)

1. A compressed air pump comprising a pair of tandem cylinders having communicating ends, one of said cylinders having a valved water inlet and the other cylinder having a valved compressed air inlet, said other

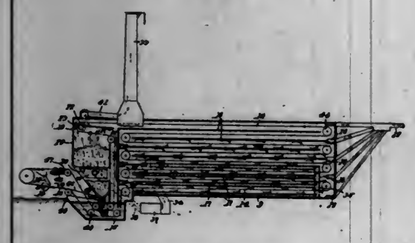
cylinder having its wall provided with longitudinally extending water passages having communication with the water inlet cylinder, said other cylinder being also provided with interiorly and longitudinal air passages extending between and communicating with the upper and lower portions respectively of the cylinders, a reciprocatory piston within said other cylinder, a spring supporting the said piston and positioning the same within the cylinder so as to normally close the inlet end of the said air passages, and a water receiving chamber carried by said other cylinder and having valved communication with the outlet ends of the said water passages.



1,750,720. PROCESS FOR THE MANUFACTURE OF BREAD. JEAN MATTI, Pully, Switzerland, assignor to Augmentine Holding S. A., Lausanne, Roquebrune, Switzerland. Filed Apr. 5, 1928, Serial No. 267,803, and in Germany Apr. 21, 1927. 3 Claims. (Cl. 99—10.)

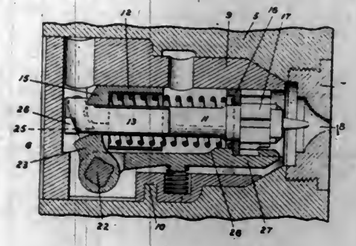
1. In a process for the manufacture of bread, wherein the preparation of the dough takes place in the usual manner by mixing flour, water, salt and yeast, the improvement which consists in adding an emulsion of paraffin oil, glycerine and water to the dough during its preparation.

1,750,721. OVEN. HENRY F. MAUREL, Providence, R. I., assignor to Maurel Investment Corporation, a Corporation of Rhode Island. Filed Jan. 27, 1928. Serial No. 250,047. 11 Claims. (Cl. 34—12.)



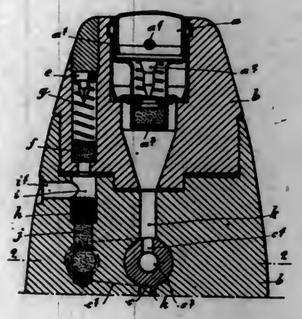
1. In an oven for baking purposes, the combination with an air-tight casing, of a conveyor therein having loading and discharge points outside the oven, and a single liquid seal through which the conveyor enters and leaves the oven, the discharge strand of the conveyor being located above the feed strand, whereby the water can be lowered to permit the discharge to take place in a dry state without interfering with the liquid seal for the feed strand.

1,750,722. FIRING MECHANISM. GEORGE M. MCCANN, New Castle, Del. Filed June 19, 1929. Serial No. 372,059. 4 Claims. (Cl. 89—27.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



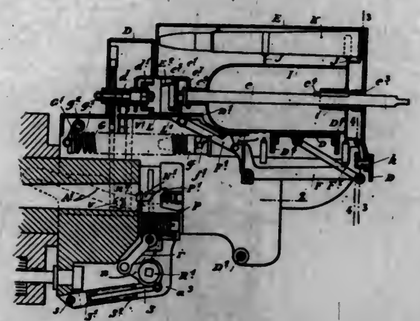
4. In a firing mechanism, a casing, an actuator in the casing, a firing pin in the casing, a spring seat associated with the firing pin, a spring confined between the actuator and spring seat, a stop member limiting forward movement of the firing pin, and means for limiting the forward movement of the spring seat short of the firing pin.

1,750,723. PERCUSSION FUSE. NICOLAS EMILIEN METHLIN, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed Apr. 29, 1929, Serial No. 359,089, and in France July 20, 1928. 2 Claims. (Cl. 102—39.)



1. Safety device for preventing the operation of supersensitive percussion fuses before the projectile reaches a sufficient distance from the muzzle of the gun, the said safety device comprising an obturator which is arranged on the path of the gases between the percussion device and the charge of the projectile and is adapted to be thrown out under the action of the pressure from a charge of powder which is ignited when the shot is fired by a striking mechanism and being characterized by the feature that the obturator, housed in a transverse duct in the fuse body, is provided at its end which communicates with the outside, with an enlarged portion upon which the gases produced by the striking mechanism act directly or through the medium of a hammer the powder producing these gases and the striking mechanism being arranged in a duct having no communication through the fuse body with the duct connecting the firing mechanism with the charge of the projectile.

1,750,724. COMBINED AUTOMATIC BREECH CLOSING AND OPENING AND LOADING MECHANISM FOR AUTOMATIC GUNS. NICOLAS EMILIEN METHLIN, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France. Filed July 1, 1929, Serial No. 375,194, and in France July 23, 1928. 2 Claims. (Cl. 89—4.)

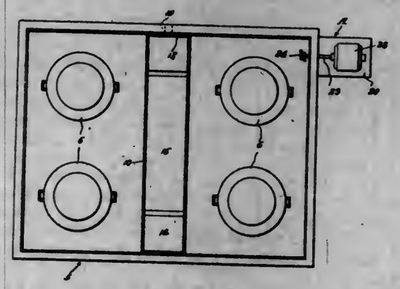


1. Combined automatic breech closing and opening and loading mechanisms for automatic guns comprising a drum loader characterized by the feature that the shaft of this drum which is movable longitudinally in the magazine casing, is provided at its front end with a clutch member guided in a helical guide in the said casing of the magazine so that a pull exerted upon the shaft of the drum imparts an angular movement to the said drum which causes a first cartridge to descend on to a loading and driving in tray suspended by rods from a fixed part while the clutch member carried by the shaft of the drum becomes coupled with a complementary clutch member carried by a release mechanism of any known type controlled by the movements of recoil and return into battery position of the gun barrel, the projectile being driven by a stressed spring pivoted at one end to the suspension links of the loading tray and at the other end to a shaft journalled in the fixed part.

1,750,725. METHOD OF TREATING AMPHIBOLE OF THE ASBESTOS VARIETY. CARLTON E. MILLER, San Francisco, Calif. Filed Jan. 31, 1927, Serial No. 165,048. Renewed Jan. 31, 1930. 4 Claims. (Cl. 252—1.)

3. The herein described method of producing a flocculent mass from amphibole asbestos, which consists in separating the closely matted parallel fibres of the amphibole, and beating the same while in suspension until they become distinct and independent felted pellets.

1,750,726. LIQUID AGITATION COOLER. CHARLES J. NAGLE, Herkimer, N. Y. Filed June 10, 1929. Serial No. 369,910. 3 Claims. (Cl. 257—208.)



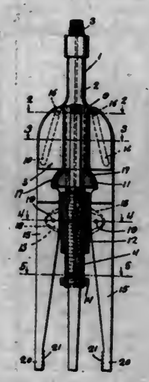
1. In a cooler of the class described, a cabinet of substantially rectangular configuration open at one end, hingedly mounted doors for closing the opening, an elongated trough located within the cabinet, means for supporting the trough transversely of the cabinet, said trough being of substantially T-shaped formation and having its lower end in spaced relation with the bottom of the cabinet, an electric motor disposed exteriorly of the cabinet, a propeller located within the cabinet, and means operatively associating the propeller with the electric motor.

1,750,727. ALL-METAL RACKET FOR TENNIS AND LIKE GAMES. HAROLD W. NORTON, Dayton, Ohio, assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 22, 1926. Serial No. 143,361. 1 Claim. (Cl. 273—73.)



A racket for tennis and similar games, comprising a tubular metal frame, an elastic metal stringing therein, a hollow metal handle secured to the legs of said frame, and formed with channeled ends, and a cap formed with a flange that is crimped between the walls of the channeled ends of said handle to firmly secure it to the latter.

1,750,728. WELL-TOOL GRAB. GEORGE A. ROBISON, Bakersfield, Calif. Filed Apr. 30, 1928. Serial No. 274,002. 5 Claims. (Cl. 294—116.)

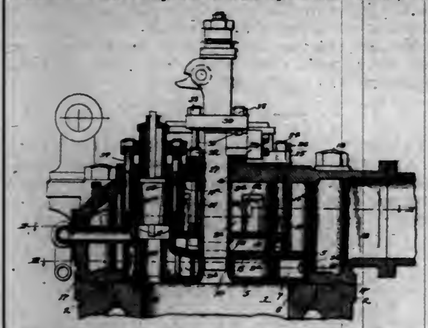


1. A tool grab comprising a head member, a stem extending through and rotatably supported by the head member, a sleeve arranged below the head member and screw threadedly engaged with the stem for downward movement with respect to the head member on the turning of the stem in one direction, arms connected between their ends to the sleeve for movement therewith and for pivotal movement with respect thereto, and means associated with the head member and the upper ends of the arms for swinging the lower ends of the arms inwardly during the downward movement of the arms.

1,750,729. CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES. CLEMENT RUEGG, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 13, 1927. Serial No. 198,566. 6 Claims. (Cl. 123—173.)

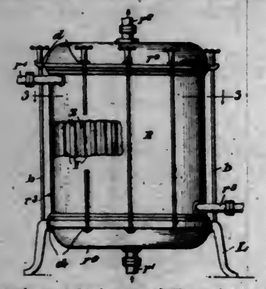
1. In a cylinder head for engines of the internal combustion type, the combination of an inner cylinder end closing member having a water cooling chamber formed therein; an outer member surrounding and overlying the

said inner member in spaced relation thereto; operation valves; aligned openings formed in said inner and outer members for the reception of said operation valves; valve



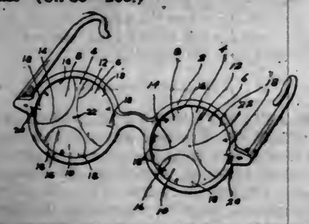
cages; and means extending freely through the outer member and connected to the inner member for drawing said members together and for forcing the valve cages into close contact with the inner member.

1,750,730. HEAT-EXCHANGE DEVICE FOR FOOD LIQUIDS. EMIL SCHMID, Washington, D. C. Continuation of application Serial No. 717,300, filed June 2, 1924. This application filed Feb. 1, 1926, Serial No. 85,371. Renewed Aug. 12, 1929. 7 Claims. (Cl. 257—242.)



1. A heat exchange device consisting of a section having two separate end plates, openings in the end plates, flat tubes extending between corresponding openings in the end plates, the transverse dimension of each tube extending substantially the full width of the plate, an easily removable shell which may be placed around said section, removable closures for the ends of the section and means for holding the section, shell and closures in co-operative relationship to each other.

1,750,731. BIFOCAL FITTING DEVICE. GEORGE M. SMITH, deceased, Arlington, Mass., by George W. Perkins, administrator, Everett, Mass., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 25, 1925. Serial No. 39,509. 15 Claims. (Cl. 33—200.)

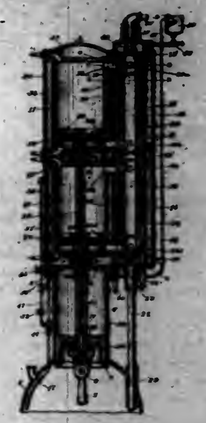


3. A bifocal fitting device comprising a fitting lens having an imitation bifocal wafer marked thereon and an index associated with the wafer.

1,750,732. LEATHER-DRESSING PROCESS. OTTO LUDWIG STEVEN, Berlin, Germany. Filed June 30, 1928, Serial No. 289,624, and in Germany July 22, 1927. 3 Claims. (Cl. 149—6.)

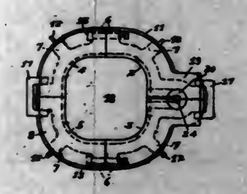
1. In the art of tanning hides the step which comprises filling the leather with a substance which can be fixed therein by a water soluble salt of a carbocyclic amine, and the step of causing the so-filled leather to absorb from an aqueous solution thereof the amount of a salt of a carbocyclic amine almost sufficient to fix the said filling agent therein.

1,750,733. ROTARY VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ALBERT F. STUART, Portland, Me. Filed Dec. 1, 1927. Serial No. 237,006. 4 Claims. (Cl. 123—190.)



1. A rotary valve mechanism for internal combustion engines comprising in combination a casing having ports therein so arranged as to provide communication between its interor and the interior of each cylinder in a plurality of multi-cylinder blocks, a fixed gas-inlet pipe concentrically disposed in said casing and spaced therefrom, a plurality of ports in said pipe radially and axially aligning, respectively, with the ports in said casing, a sleeve revolubly mounted interjacent said casing and said fixed gas-inlet pipe, a plurality of gas inlet ports in said sleeve adapted to intermittently register, respectively, with the ports in said gas-inlet pipe and the ports in said casing, a plurality of peripheral exhaust ports and channels cut on the outer periphery of said sleeve, a plurality of discharge openings leading out from the interior of said casing and into register with which said peripheral exhaust channels are adapted to be intermittently brought, and means to lubricate both the inner and the outer surfaces of said sleeve by oil from a supply in common and in which one end of said sleeve is submersed.

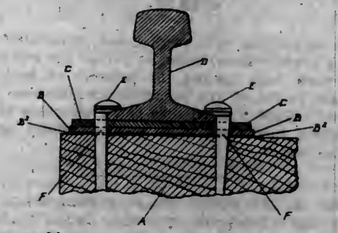
1,750,734. INGOT-MOLD FLASK. VINCENT TOPE, Sharpsville, Pa. Filed Feb. 25, 1929. Serial No. 342,360. 5 Claims. (Cl. 22—96.)



5. In an ingot mold flask of the character described, a hollow body portion having its periphery provided with

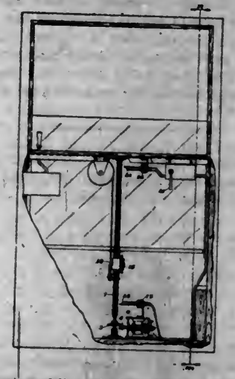
a plurality of reenforcing ribs, said body portion being divided vertically into four complemental quarter sections, means mounted in respective ribs for securing one side of each of said sections to the adjacent side of one of the adjacent sections and operable for effecting only the partial release thereof, means engaging respective ribs for clamping the other side of each of said sections to the adjacent side of the other of the adjacent sections and removable for effecting the full release of said sections secured thereby, one pair of adjacent sections combinedly formed to provide a vertical[illegible]y extending pouring gate and further to provide a horiz...ally disposed recess communicating with said pouring gate and with the interior of said body portion, and means fixed in each of said sections to facilitate the handling thereof.

1,750,735. RAILWAY PAD. RUSSELL E. TUPPER, Salem, Mass. Filed Dec. 11, 1928. Serial No. 325,192. 6 Claims. (Cl. 238—283.)



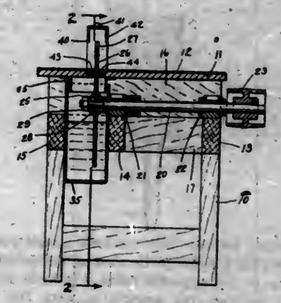
6. The combination with a railroad rail, tie plate and tie, of an intervening pad, having its underside coated with a waterproof adhesive material, as and for the purposes stated.

1,750,736. ELECTRICAL WINDOW LIFT FOR AUTOMOBILES. GEORGE H. VOLLE, Springfield, Ill. Filed Apr. 6, 1927. Serial No. 181,386. 3 Claims. (Cl. 268—124.)



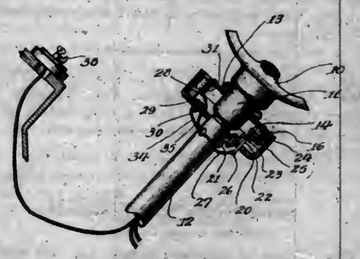
1. In an automobile window lift of the character described the combination with an upright adjustment screw, a reversible motor adapted to operatively rotate the same through gears and a pair of oppositely disposed limit switches, of a balancing spring for balancing the weight of the window, a threaded sleeve and an integral lift pin adjustably supported on said upright screw, a slotted sleeve spring casing controllably secured to the adjustable window; said integral lift pin of said adjustable sleeve controllably and resiliently engaging said adjustable window through said slotted sleeve by a bearing resiliently mounted within this sleeve; and switch means for the optional control of said electric source of energy, whereby said window may be suitably balanced and controlled in its movements at the will of the operator through the motor actuated control of the lifting screw.

1,750,737. TILE-CUTTING MACHINE. OTTO WALTER, Perrysville, Ind. Filed Oct. 3, 1927. Serial No. 223,598. 4 Claims. (Cl. 125—13.)



1. A machine for cutting tile and the like having a stationary frame, a water tank mounted therein with its top open, a vertically disposed rotary cutter having its periphery formed of emery and the like and mounted in the machine so that the lower portion thereof will run in the water in the tank and the upper portion thereof will extend above the tank, an upper portion of the frame including a table which portion is hinged at the rear end to the stationary portion of the frame and arranged so that the front end thereof may be lifted and tilted upward and backward and the table thereof being provided with a slot through which the upper part of the cutter projects, and a water deflector secured at the rear end of said upper part of the frame and extending forward and free above the cutter with the sides and front end thereof extending below the upper edge of the cutter for concentrating the water which is thrown upward against said reflector down on the cutter, substantially as set forth.

1,750,738. CIRCUIT CLOSER. HENRY D. WALTRIP and RUPERT M. HORTON, Chicago, Ill. Filed Jan. 18, 1929. Serial No. 333,325. 4 Claims. (Cl. 200—59.)



1. In a direction indicating mechanism of the character described, the combination with a steering post and a sleeve of a steering mechanism, of an annular track mounted and insulated from said post and adapted for rotation therewith, a depending flange extending from said track and having the ends thereof spaced from each other, a spring pressed button mounted on said sleeve and insulated therefrom, said button being adapted for constant engagement with said track, and a double contact switch also mounted on said sleeve and insulated therefrom, one contact of said double contact switch being adapted for engagement with the depending flange when the steering post is rotated in one direction, and the other contact of said double contact switch being adapted for engagement with the depending flange when the steering post is moved in the other direction.

1,750,739. LAMP-SOCKET RHEOSTAT. CARL L. WEICHELT, Philadelphia, Pa., assignor to Wirt Company, Philadelphia, Pa., a Corporation of Maine. Filed Mar. 29, 1926. Serial No. 98,170. 8 Claims. (Cl. 201—49.)



1. A current reducer for electric lamps comprising a socket embodying a shell portion mounted on an insulating disc carrying on its opposite faces a pair of joined center contacts, a rheostat ring associated with the socket and including an outer shell connected thereto, and having internally disposed resistance windings provided with circularly disposed terminals at one end of the ring, a rotary brush engaging one of the center contacts and adapted to successively cooperate with the rheostat terminals while in contact with said center contact.

1,750,740. CURRENT REGULATOR FOR ELECTRIC LAMPS. CARL L. WEICHELT, Philadelphia, Pa., assignor to Wirt Company, Philadelphia, Pa., a Corporation of Maine. Filed May 12, 1928. Serial No. 277,246. 7 Claims. (Cl. 201—49.)



1. In an electric lamp attachment, a rotary rheostat ring and a protective casing forming an annular air chamber around said rheostat ring, said casing having two ears formed thereon projecting into the chamber, and said ring comprising an outer tubular shell having a portion of one of its edges flanged outwardly and forming stops cooperating with said ears to limit the rotational movement of the ring.

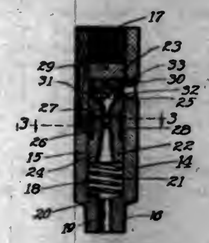
1,750,741. METHOD OF FINISHING COTTON-GIN RIBS. JOSEPH BEHLE, Dallas, Tex., assignor to The Murray Company, Dallas, Tex., a Corporation of Texas. Filed Jan. 10, 1929. Serial No. 331,467. 5 Claims. (Cl. 51—278.)



1. The method of finishing cotton gin ribs which consists in passing each rib between means for removing material from the ends of its feet, then passing said rib between means for removing material from the side edges of the feet, then presenting the feet of said rib to means for removing material from the under faces of said rib feet, then subjecting said rib to means for finishing the working face of the rib body between means for removing material, whereby each rib is finished and also gauged as to width and length.

1,750,742. SUCTION-PRODUCING MECHANISM. CLIFFORD C. BRADBURY, Oak Park, Ill., assignor, by mesne assignments, to Curtis B. Camp, trustee, Oak Park, Ill. Filed May 17, 1920. Serial No. 381,825. 3 Claims. (Cl. 158—36.1.)

1. In a fuel feeding system, a device for amplifying the suction for lifting fuel from a low level reservoir to a position above the level of the carburetor of an engine, said device comprising a plug in the suction line of said system having a bore extending therethrough a slidably mounted Venturi tube in said bore, the posterior end of said Venturi tube being subject to said suction, and the anterior end thereof being subject to atmosphere, and a spring for normally holding said Venturi tube in a position for amplifying said suction and when said suction attains a predetermined value, to permit the movement of said Venturi tube against the pressure of said spring, and means to cut off the communication between the anterior end of said Venturi tube and atmosphere to render said Venturi tube inoperative as an amplifier when the tube is so moved.

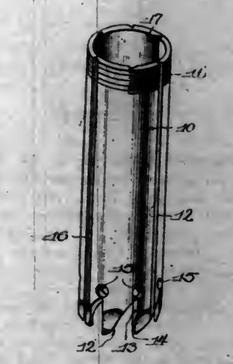


1,750,743. SPEED BOAT. FRANK B. BREMERMAN, Indianapolis, Ind. Filed Oct. 22, 1929. Serial No. 401,536. 3 Claims. (Cl. 114—66.5.)



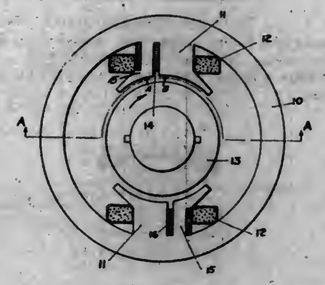
1. In a boat having a cockpit, a cowl extending rearwardly from the bow to a point adjacent the cockpit, said cowl having near its rear end a central raised portion from which the cowl slopes forwardly and laterally to the bow and sides, the cowl being outwardly convex at said raised portion and outwardly concave near the sides and bow.

1,750,744. ROTARY CORE BIT. MAURICE S. CHAMBERLAIN, Malvern, Ark. Filed Sept. 22, 1926. Serial No. 136,987. 3 Claims. (Cl. 255—72.)



A rotary core bit comprising a body having beveled teeth, said body having openings therein adjacent the base of said teeth for facilitating the inward bending of said teeth by a force acting on the beveled surfaces thereof.

1,750,745. UNIVERSAL MOTOR. BROOKS L. CONLEY, Canton, Ohio, assignor to The Hoover Company, a Corporation of Ohio. Filed Dec. 15, 1924. Serial No. 755,829. 7 Claims. (Cl. 172—276.)



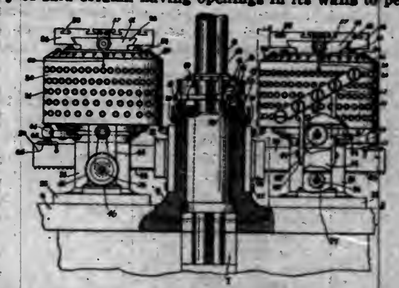
1. In a motor operable on either alternating or direct current, the combination of a stator arranged to form a magnetic circuit including a pole having leading and lagging pole tips, and an endless electrically conductive loop arranged to encircle a portion only of the sectional area of said magnetic circuit but including the leading tip of the field pole and accordingly be inductively energized through the magnetic flux variations of said magnetic circuit, said loop being unconnected with respect to all other sources of electrical energy and arranged to embody an electrical resistance gauged to balance said induced energy to attain a current value whereby the counter magnetomotive force created thereby will effect the speed of the motor to correspond with that speed which is normal when the motor is operating merely under the influence of direct current.

2. In a motor operable on either alternating or direct current, the combination of a stator arranged to form a magnetic circuit including a pole having leading and lagging tips, and an endless electrically conductive loop arranged to encircle a portion only of the sectional area of said magnetic circuit but including the leading pole tip and accordingly be inductively energized through the magnetic flux variations of said magnetic circuit, said loop being unconnected with respect to all other sources of electrical energy and arranged to embody an electrical resistance gauged to balance said induced energy to attain a current value whereby the counter magnetomotive force created thereby will effect the speed of the motor to a predetermined extent relative to that speed which is normal when the motor is operating merely under the influence of direct current.

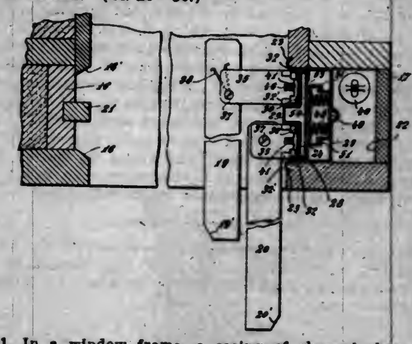
7. In a motor operable on alternating or direct current, a magnetic circuit including a field pole having leading and lagging tips, said field pole being divided into a plurality of spaced parallel magnetic flux paths one of which includes said leading pole tip and means to increase the reluctance of said path including said leading pole tip when the motor is using alternating current, said means comprising a short-circuited coil encircling said path.

1,750,746. MACHINE-TOOL WORK HOLDER. HERMANN DEUTSCH, Chicago, Ill. Filed Apr. 10, 1929. Serial No. 353,945. 9 Claims. (Cl. 90—58.)

1. In a device of the class described a base, a standard on said base, a sleeve resting on said base and surrounding the standard, a working table, a hollow column slidingly resting on said base, said working table being supported by said column, a rack on said sleeve and extending horizontally of said column having openings in its walls to permit said rack to extend therethrough, a pinion rotatably mounted in said column and adapted to engage said rack, and means for rotating said pinion.

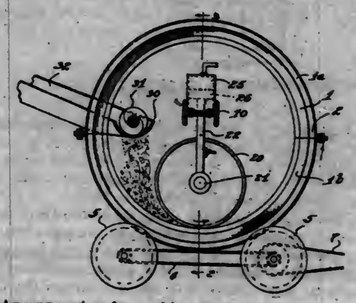


1,750,747. WINDOW. FREDERICK E. DOMBCHEIT, Brooklyn, N. Y. Filed July 21, 1928. Serial No. 294,330. 17 Claims. (Cl. 20—50.)



1. In a window frame, a casing of channel shape in cross section fixedly mounted in one side member of the frame and extending longitudinally thereof, a plate arranged for the slidable mounting of sash thereon mounted in said casing to extend longitudinally thereof and have movement in a direction into and out of the casing, yielding abutments mounted on the connecting portion of and within the casing, and means adapted to be positioned between said yielding abutments and the plate to move and urge the latter in a direction out of the casing.

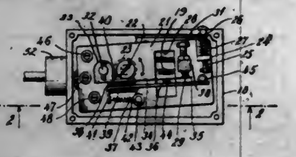
1,750,748. METHOD AND APPARATUS FOR MAKING ARTICLES FROM A PLASTIC SUBSTANCE. STANLEY H. EDMUNDS, Detroit, Mich. Filed Jan. 16, 1928. Serial No. 246,971. 13 Claims. (Cl. 25—30.)



11. An apparatus for making a concrete pipe or the like, comprising a cylindrical form mounted for rotational

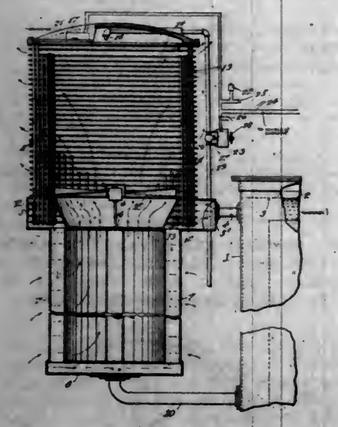
movement, a compression roller within the form adapted to compress the concrete against the cylindrical form, thus to shape the walls of the pipe, and means for locking this compression roller against movement whereby the same smooths off the inside surface of the formed pipe.

1,750,749. LIQUID-HEATER CONTROL MECHANISM. EDWARD L. FONSECA, Newark, N. J., assignor to The Wilcolator Company, Newark, N. J., a Corporation of Delaware. Filed Nov. 20, 1925. Serial No. 70,239. 19 Claims. (Cl. 200—138.)



1. A thermostatic control device comprising the combination of a thermostatic element having a portion movable to different positions in accordance with temperature variations, a base, a stationary contact carried by the base, a movable arm mounted on the base and carrying a pair of spaced contacts, one of which normally engages the stationary contact, a second movable arm mounted within the casing and carrying a contact adapted to be engaged by the second contact carried by the first mentioned movable arm, the first movable arm lying in the path of travel of the movable portion of the thermostatic element and being movable thereby both relative to the second movable arm and also with the latter, and means for moving the base to different positions of adjustment to vary the action of the thermostatic element upon the movable arms.

1,750,750. COOLING MEANS FOR ELECTRICAL AND OTHER APPARATUS. FRAZER W. GAY, Newark, N. J. Filed Apr. 20, 1928. Serial No. 271,478. 12 Claims. (Cl. 257—191.)

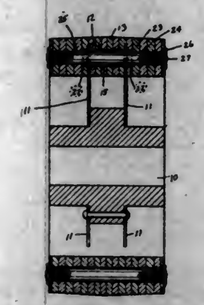


12. A radiator in the form of a chimney comprising, a plurality of spaced annularly arranged tubes, a cover for said radiator arranged to close the top thereof and a bottom member for said radiator arranged to close the bottom thereof, whereby cooling medium is caused to enter the lower part of said radiator by passing inwardly between the lower portions of said tubes and to leave the upper part of said radiator by passing outwardly between the upper portions of said tubes, and a fan positioned within said radiator intermediate the top and bottom thereof and adapted to accelerate the cooling medium in its passage through the radiator.

1,750,751. ALUMINUM ALLOY. ANDRÉ GEYER, Paris, France. Filed June 25, 1927, Serial No. 201,564, and in France Feb. 4, 1927. 2 Claims. (Cl. 75—1.)

2. A process for the manufacture of aluminum alloys containing carbon which consists in introducing powdered charcoal wetted with water into the molten bath, protecting the surface of the said molten bath with broken up charcoal and operating at a temperature above 900° C.

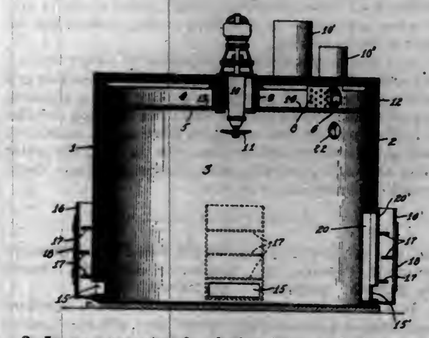
1,750,752. PULLEY CONSTRUCTION. WILLIAM D. HAMERSTADT, Indianapolis, Ind., assignor to Rockwood Manufacturing Company, Indianapolis, Ind., a Corporation. Filed Aug. 26, 1927. Serial No. 215,611. 9 Claims. (Cl. 64—17.)



3. In a paper pulley and the like, the combination of a hub, a rigid annular driving and supporting portion concentric therewith comprising a plurality of compressed laminations retained under compression, a plurality of pairs of supporting arms connecting the hub to the annular portion, said arms being paired, and each pair including laminations therebetween, means uniting each pair of arms together for retaining the laminations therebetween in compressed relation, a laterally projecting pulley rim forming portion composed of laminations, and dowels extending through all of the laminations for uniting the portions and laminations together for support and driving.

5. A device as defined by claim 3, characterized by the paired arms being positioned opposite each other in lamination straddling relation and the arm uniting means extending through the arms including the laminations and having enlarged ends bearing on the arm exteriors, said arm uniting means being tubular and certain of said dowels extending therethrough and projecting beyond said tubular arm uniting means and into the adjacent laminations.

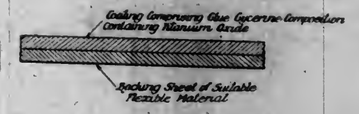
1,750,753. DRYING APPARATUS. ERNEST HOPKINSON, New York, N. Y., assignor to General Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 10, 1926. Serial No. 101,060. 5 Claims. (Cl. 18—2.)



2. In an apparatus for drying latex and similar material, a drying chamber, a disk sprayer centrally disposed

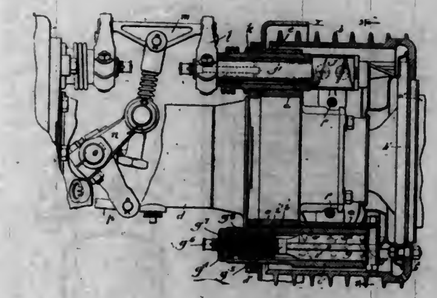
adjacent the top thereof, means for supplying spaced downwardly directed currents of drying medium in annular form at points adjacent the sprayer and spaced from the side wall of the chamber, a plurality of equidistant exhaust openings in the side wall adjacent the bottom of the chamber, and exhaust boxes disposed around the outside of the drying chamber and communicating with said openings, one of said boxes being hingedly mounted and forming a doorway to the drying chamber.

1,750,754. HECTOGRAPH BLANKET. WILLIAM HOSKINS, Jr., Chicago, Ill., assignor to Ditto Incorporated, Chicago, Ill., a Corporation of Illinois. Filed July 2, 1928. Serial No. 290,037. 2 Claims. (Cl. 41—31.6.)



1. A hectograph blanket, comprising a backing sheet and a coating on one face thereof of the usual glue and glycerin composition, said coating containing titanium oxide.

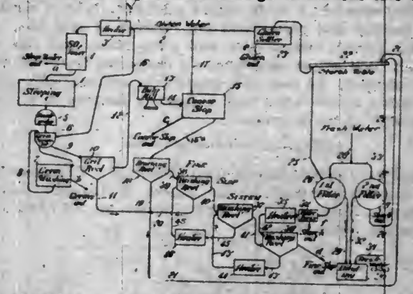
1,750,755. BRAKE MECHANISM. AXEL JANSSON, Hillside, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 11, 1926. Serial No. 115,155. 2 Claims. (Cl. 188—79.5.)



1. In brake mechanism, in combination, a brake anchor, brake shoes formed with curvilinear brake anchor bearings, cylindrical bearing members for each brake shoe formed respectively with opposed grooves of varying depth, a wedge member cruciform in cross section seated in the grooves and carried with the brake anchor and having a threaded shank, a nut carried with the shank and bearing on the brake anchor, and a spring surrounding the shank and bearing, respectively, on the nut and anchor bearing.

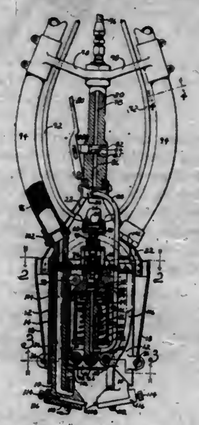
1,750,756. MANUFACTURE OF STARCH. FREDERICK L. JEFFERIES, La Grange, Ill., assignor to International Patents Development Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 8, 1928. Serial No. 304,687. 3 Claims. (Cl. 127—69.)

1. In the manufacture of starch from corn by a method comprising subjecting the starch liquor derived from germ and coarse slop separations to a fine slop separation in a system of sieving devices through which the fine slop



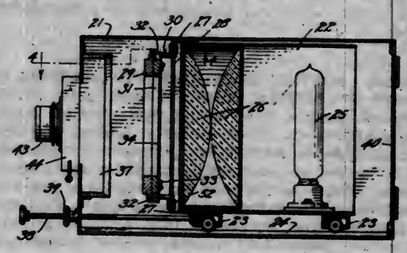
mixed with water is passed successively: the improvement which consists in heating the fine slop liquids at intervals during their passage through the fine slop system.

1,750,757. ELECTRIC WELDING MACHINE. FREDERICK H. JOHNSON, Detroit, Mich. Filed May 19, 1927. Serial No. 192,714. 10 Claims. (Cl. 219—4.)



1. In an electric welding machine, the combination of a pair of pivotally supported electric terminals, an electric welding circuit for said terminals, means for producing a predetermined pressure between the working ends of said terminals, means dependent on said pressure for automatically completing said welding circuit, and means for increasing the pressure between the working ends of said terminals after the welding circuit has been completed.

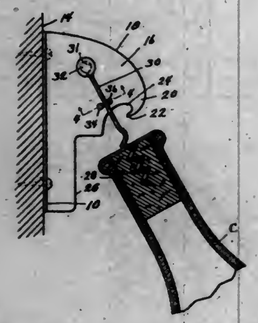
1,750,758. PHOTOGRAPHIC CAMERA. JESSE HOYT JOHNSON, Denver, Colo. Filed Feb. 1, 1929. Serial No. 336,748. 4 Claims. (Cl. 95—11.)



1. A photographic camera comprising: a camera box; a lens arranged at one extremity of said box; a supporting

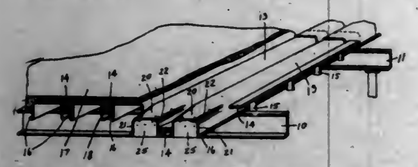
member longitudinally movable within said box; means for detachably mounting a plate holder upon said supporting member; a plate within said plate holder; means for sealing said plate from the interior of said box, so as to prevent exposure of said plate when said box is opened, said means comprising: a projecting frame within one extremity of said box adapted to contact with said mounting means when said supporting member is at one extremity of its movement.

1,750,759. BOTTLE-OPENING DEVICE. CLEMENT E. KENNEDY, Swampscott, and ELMER E. SANBORN, Lynn, Mass. Filed June 4, 1926. Serial No. 113,807. 7 Claims. (Cl. 65—48.)



1. A bottle-opening device comprising a bracket having an attaching plate provided with a forward vertical flat extension, a cork-screw carried by and having a permanent pivotal connection at its upper end with said extension and adapted normally to be disposed adjacent said attaching plate and beside said extension and arranged to be moved away from said attaching plate and beyond and mainly below said extension for use.

1,750,760. SUPPORTING STRUCTURE FOR CONCRETE CONSTRUCTION. JOHN C. KEPPLE, Indianapolis, Ind. Filed July 20, 1928. Serial No. 294,201. 4 Claims. (Cl. 25—131.5.)

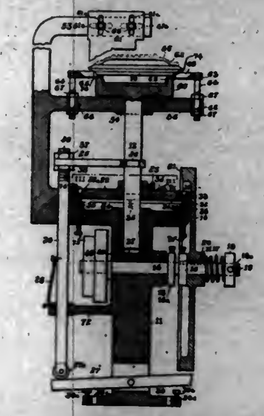


3. In a concrete structure, a centering form therefor made of sheet metal having a tapered end, said tapered end comprising a tapered top portion continuing from the top surface of the form, and inwardly bent sides having top portions separate from the before mentioned tapered top portion adapted to inter-engage therewith for forming a reduced outer end substantially as shown and described.

1,750,761. METHOD OF INHIBITING CORROSIVE EFFECT OF BRINES TOWARD IRON AND STEEL. OTTO V. MARTIN, Sand Spring, Okla., assignor to The Martin-Colvin Co., a Corporation of Illinois. Filed Oct. 26, 1927. Serial No. 228,983. 4 Claims. (Cl. 23—239.)

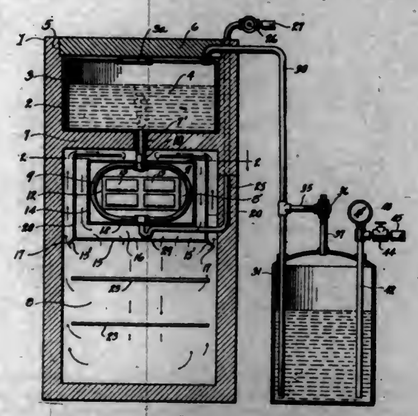
1. A method of substantially inhibiting the corrosive effect of brines and salt solutions toward iron and steel, which comprises creating in said brines and salt solutions a magnesium hydroxide content in excess of its solubility therein and maintaining a slight excess of magnesium hydroxide during the period of contact of said brines and salt solutions with iron and steel.

1,750,762. JIGGER FOR USE IN THE MANUFACTURE OF ARTICLES FROM PLASTIC MATERIALS. WILLIAM J. MILLER, Swissvale, Pa. Filed Oct. 25, 1926. Serial No. 143,994. 15 Claims. (Cl. 25—24.)



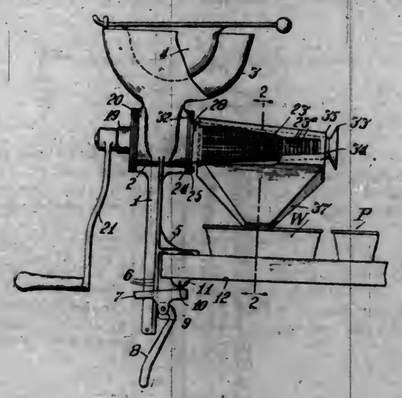
1. A pottery forming machine including a mold, a chuck for rotating the mold, means for automatically engaging and disengaging the chuck and mold, and means for stopping the rotation of the chuck before the mold is disengaged therefrom.

1,750,763. APPARATUS FOR REFRIGERATION. CLYDE E. MOLESWORTH, JOHN DUDMAN, and CARL G. ZOKELT, Seattle, Wash. Filed Sept. 12, 1927. Serial No. 219,028. 3 Claims. (Cl. 62—98.)



1. A device of the character described comprising an insulated housing providing an insulated compartment in the top portion thereof and a refrigerating chamber below said compartment, an insulated tank disposed within the top compartment for containing a supply of liquid refrigerant, a vent pipe leading from the top of said tank, an expansion coil located within the top of the refrigerating chamber having a pipe connection with the base of the refrigerant container through which the coil may be supplied by gravity flow and through which gas may be vented from the coils, a filling pipe connected with the base of the coil and extended upwardly to a point above the refrigerant container and a trap in said filling pipe adjacent its connection with the coil for preventing outward passage of the refrigerant.

1,750,764. SEPARATOR. FRANK M. SCHAEFER, Chicago, Ill., assignor to American Utensil Company, a Corporation of Illinois. Filed Dec. 17, 1926. Serial No. 155,480. 3 Claims. (Cl. 100—48.)



1. In a separator of the class described, a rotary pressure member, a screen having perforations of different size arranged in different zones of the screen, and a rotary cover for said screen for covering any of said zones.

3. In a separator of the class described, a feeding hopper having an outlet, a screen having a flange surrounding said outlet, a slotted ring positioned adjacent said flange, headed members extending through said slotted member and into the wall of said inlet, said ring having cam surfaces whereby rotational movement thereof will clamp said screen to said hopper.

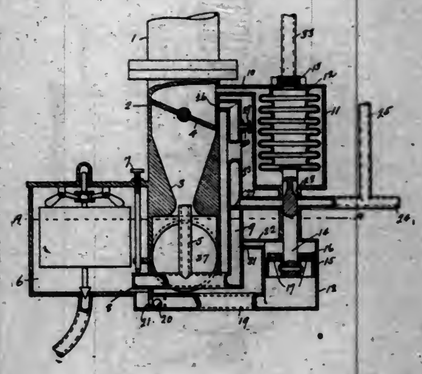
1,750,765. PROPELLING MEANS FOR DIRIGBILE AIRSHIPS. JESSE W. SILVER, Tacoma, Wash. Filed Feb. 7, 1928. Serial No. 252,504. 4 Claims. (Cl. 244—6.)



1. In an airship of the character described, a propeller unit comprising a plurality of paired sets of guide sheaves and belt driving sheaves mounted at space intervals circumferentially about the body of the ship, flexible cable belts mounted for travel about the ship on the said sheaves, propeller vanes fixed to the belts and driving devices connected with the several driving sheaves for operating the belts.

1,750,766. METHOD AND MEANS FOR REGULATING FUEL. CHARLES L. STOKES, Los Angeles, Calif., assignor to Curtis B. Camp, trustee, Glencoe, Ill. Filed June 12, 1923. Serial No. 644,923. 19 Claims. (Cl. 123—180.)

1. The method of supplying fuel to an internal combustion engine which consists in applying the engine vacuum and pressures varied by and in accordance with the engine temperature to a pressure responsive element, supplying an excess of fuel to start the engine, reducing



the amount of excess fuel suddenly and then gradually after the engine is started, and feeding an excess of fuel to the engine upon the reduction of vacuum applied to the pressure responsive element.

1,750,767. METHOD FOR TREATING AQUEOUS DISPERSIONS OF RUBBER AND PRODUCTS OBTAINED THEREBY. MERWYN C. TEAGUE, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Oct. 28, 1925. Serial No. 65,492. 7 Claims. (Cl. 87—17.)

1. A method of forming stable compositions from acidic substantially water-insoluble wood distillation products and aqueous dispersions of rubber which consists in neutralizing said wood distillation products, mixing an approximately neutral hydrocarbon containing material therewith, emulsifying the mixture in a substantially non-solvent thereof, and combining said emulsion with aqueous dispersions of rubber.

1,750,768. FLAVORING TEA. LOUIS ARONSON and ALBERT FELDBLET, Brooklyn, N. Y. Filed Dec. 31, 1927. Serial No. 244,040. 3 Claims. (Cl. 99—11.)

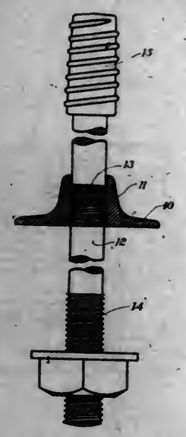
3. A process of treating tea by impregating same with a small proportion of a solution of citric acid and then subjecting the tea to the vapors of a solution of essential oil dissolved in ethyl alcohol.

1,750,769. INSULATOR PIN. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 29, 1922. Serial No. 578,466. 10 Claims. (Cl. 178—321.)

1. An insulator pin having rolled threads thereon, the points of which project outwardly beyond the periphery of the unthreaded portion of said pin while the roots of said threads extend inwardly beyond the peripheral surface of the unthreaded portion of said pin, and a support having a threaded opening meshing with the tips of the threads of said pin but having a minimum diameter large enough to receive the unthreaded portion of said pin.

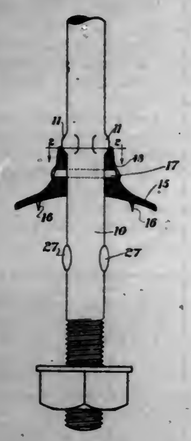
10. An insulator pin having a radially extending portion between the ends thereof and a flange secured to

aid portion, said flange having the upper extremity thereof formed inwardly over said extending portion substan-



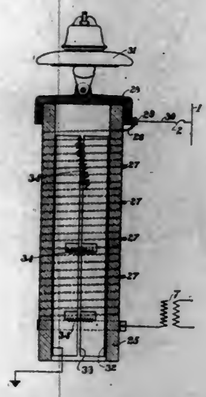
tially throughout the peripheral extent of said portion to enclose said extending portion and lock said flange to said pin.

1,750,770. INSULATOR PIN. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 2, 1922. Serial No. 579,136. 2 Claims. (Cl. 173—321.)



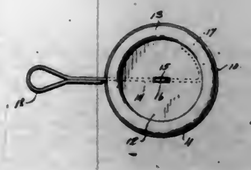
1. An insulator support comprising a rod of substantially uniform cross-sectional area throughout its length, said rod having a portion of the metal thereof pinched outwardly at a point between the ends of the rod to provide oppositely disposed outwardly-projecting flanges substantially equal in circumferential width to the ribs of metal left between said flanges, a support for said pin having a sleeve portion, and a radially extending flange connected with said sleeve portion, said sleeve portion having a circumferential recess in the top thereof for receiving said projecting flanges, there being a projection extending into said recess for engaging the projecting flanges on said pin to limit rotation of said pin in said sleeve, the portion of said pin below said sleeve being substantially equal in diameter to the portion of said pin above said outwardly extending flanges.

1,750,771. CONDENSER LIGHTNING PROTECTION DEVICE. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,499. 14 Claims. (Cl. 175—30.)



12. The combination with a transmission line and electrical apparatus connected therewith of a resistance element connected in series between said line and apparatus for protecting said apparatus against excess current due to high frequency disturbances on said line, and means for diverting current from said resistance element to ground, said means comprising a grounded conductor spaced from said resistance element and extending along the length thereof, and a dielectric member interposed between said resistance element and grounded conductor and forming with said element and conductor a condenser, the capacitance of said condenser and the impedance of said resistance element being sufficient to divert enough of the energy of disturbances on said line to protect said apparatus from injury for all voltages against which said protecting apparatus is designed to protect said apparatus, said resistance element being sufficiently insulated from ground to prevent arcing to ground for such voltages.

1,750,772. LICENSE BUTTON AND FASTENER THEREFOR. WILLIAM F. BLACKBURN, Columbia, S. C. Filed Mar. 19, 1929. Serial No. 348,258. 6 Claims. (Cl. 40—1.5.)



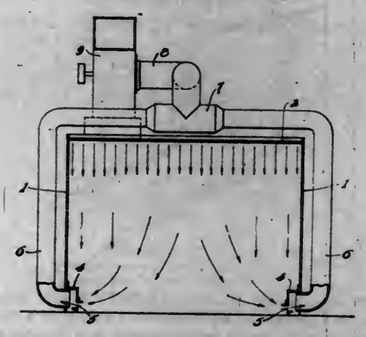
1. A button badge comprising a body having a front face, a rear face, means securing said faces together and frangible means projecting partly from said body to indicate that the badge has not been applied to its intended use, said frangible means providing a loop arranged to cooperate with the projecting portion after the removal of the latter from its original position to secure the badge to the clothing of the user.

1,750,773. BOAT. ERNST BURMESTER, Burg, near Bremen, and HERMANN HEIN, Bremen, Germany, assignors to Yacht- und Bootswerft Burmester m. b. H., Burg, near Bremen, Germany, a Corporation of Germany. Filed Nov. 26, 1928, Serial No. 322,019, and in Germany Dec. 15, 1927. 5 Claims. (Cl. 9—8.)



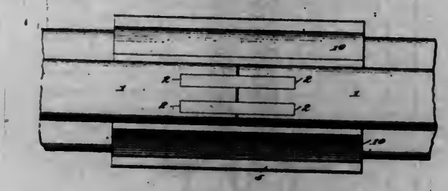
1. A boat comprising floating means arranged on the sides of the boat and projecting above the upper edge of the normal gunwale level, said floating means having channels therein at a level below the upper edge thereof.

1,750,774. BOOTH FOR SPRAY PAINTING. JOHN G. FAHLSTROM, Kansas City, Mo., assignor to Butler Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed May 28, 1928. Serial No. 281,077. 1 Claim. (Cl. 91—60.)



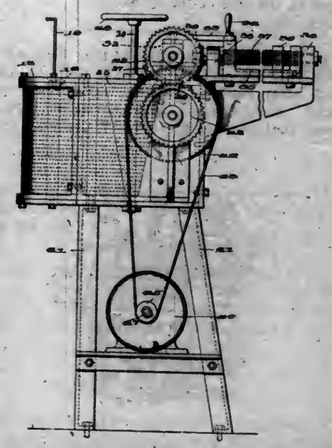
An enclosure for spraying fluids, having a roof with openings uniformly distributed over the surface thereof, air discharge hoods along the lateral edges of the floor of the enclosure, means for creating a suction in the hoods and withdrawing air from the enclosure and thereby creating a relatively uniform vertical air flow in the enclosure from the roof to the discharge hoods.

1,750,775. RAILWAY-RAIL JOINT. SEPTIMUS H. GRIFFITHS, Wheeling, W. Va. Filed Sept. 11, 1929. Serial No. 391,791. 7 Claims. (Cl. 238—218.)



1. A rail joint of the character described, comprising track rails formed with a slotted portion at each end thereof, a base plate disposed beneath the end portions of the rails, an upper splice bar formed with an upward extension adapted to be fitted within the slotted portion of each rail, and a lower splice bar slidably disposed beneath the upper splice bar and in contact with said base plate.

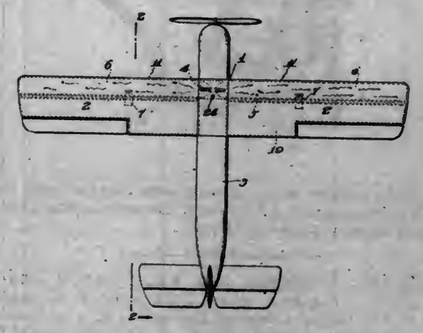
1,750,776. TWISTING NONCIRCULAR BLANKS FOR DRILLS, ETC. FERRIS T. HARRINGTON, Detroit, Mich., assignor to Whitman & Barnes, Inc., Detroit, Mich., a Corporation of Michigan. Filed Apr. 25, 1928. Serial No. 272,839. 9 Claims. (Cl. 158—78.)



1. A machine for twisting non-circular drill blanks and the like, comprising a series of rotatable carriers having axial openings to receive the work, dies carried by said carriers to engage the work and cause it to turn with said carriers, gear teeth on said carriers of uniform pitch diameter, and a series of gears of progressively and uniformly increasing driving ratio with respect to said carrier gears for turning the latter at progressively and uniformly increasing angular velocity conforming to the degree of twist desired.

9. The process of twisting non-circular drill shapes and the like which comprises grasping the work at uniformly spaced points along its length and twisting it at positively controlled progressively and uniformly increasing rates of angular movement applied to said points simultaneously, whereby the amount of twist thereby produced is uniform in the intervals between said points throughout the twisting operation.

1,750,777. ELECTRICAL HEATING MEANS FOR AEROPLANE WINGS TO PREVENT ACCUMULATION OF ICE AND SNOW. WILLIAM S. INGRAM, Philadelphia, Pa. Filed Aug. 28, 1928. Serial No. 302,524. 6 Claims. (Cl. 244—31.)



1. In an aeroplane, the combination with the load plane and side wings with intercommunicating chambers forming a heating chamber in the nose of the side wings, said

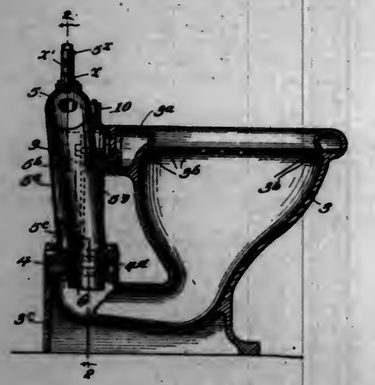
chambers being enclosed and extending through the load plane to the ends of the side wings, said wings having a storage space in rear of said heating chamber and the air driven electric generators carried by the side wings, of an electric heater contained wholly within the chamber of the load plane and electrically connected with said generators at the will of the operator.

1,750,778. MEANS OF CONTROLLING THE ANGLE OF INCIDENCE OF AERO REVOLVING BLADES OR WINGS AND PROPELLERS. DAVID KAY, Blackford, Scotland. Filed Dec. 15, 1927, Serial No. 240,288, and in Great Britain Jan. 4, 1927. 7 Claims. (Cl. 170—164.)



1. Means to mount a propeller blade on its shaft so that its angle of incidence can be varied, comprising a hinge-pin journaled transversely on the end of the shaft, bearing means for the boss of the blade carried by said pin, the bearing surfaces of said means being so inclined that the axis of the boss mounted thereon lies at an angle to the axis of said pin, and means to control the rotation of said pin.

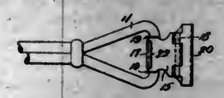
1,750,779. WATER-CLOSET. ULYSSES G. LEE, Chicago, Ill. Filed Nov 1, 1929. Serial No. 404,183. 9 Claims. (Cl. 4—76.)



1. In a water closet, a bowl, a discharge passage from the bowl, a water jet for said discharge passage, and a valve between the jet and bowl.

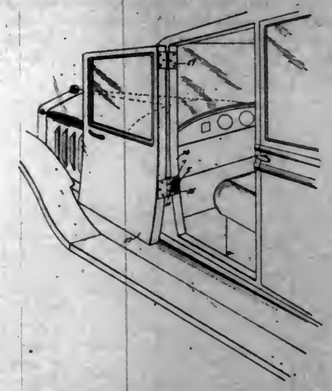
1,750,780. FASTENER FOR WRIST-WATCH BRACELETS. CHARLES A. MEALY, Nyatt Point, R. I., assignor to The Hadley Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 24, 1929. Serial No. 334,717. 2 Claims. (Cl. 24—265.)

1. A fastener for connecting the looped ends of a bracelet to a wrist watch bail, comprising a pair of jaws hinged together near the bail end of the fastener and having a pair of correspondingly curved free ends adapted to be sprung into overlapping relation to enclose the watch bail at said bail end and the looped bracelet end at the oppo-



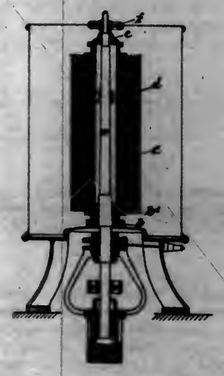
site end of the fastener, the inner portion of said overlapping jaw ends having side flanges covering the edges of the outer jaw end, thereby to protect the looped end from contact with said edges.

1,750,781. CUSHIONING DEVICE FOR DOORS AND WINDOWS. JACOB MILHANDER, Los Angeles, Calif. Filed Dec. 24, 1928. Serial No. 328,189. 2 Claims. (Cl. 16—86.)



1. In combination with the frame of a door having a door hinged therein, of a base member formed of a resilient material provided with a cavity therein, said member adapted to be secured to that portion of the door frame to which the door is hinged with the rim of the cavity engaging the face of said door frame, whereby to seal the door in its frame against movement.

1,750,782. EXTRACTOR FOR WARP BEAMS. OTTO JULIUS OBERMAIER, Neustadt, Germany. Filed Jan. 2, 1929, Serial No. 329,934, and in Germany Nov. 24, 1924. 1 Claim. (Cl. 34—26.)



A centrifugal extractor for a warp beam, comprising a rotary shaft, a conical support for the beam secured on

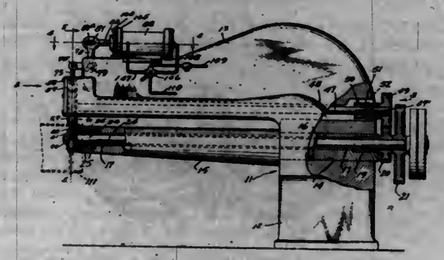
the lower part of the shaft, means at the upper part of the shaft for clamping the beam against the said support, and a guide piece mounted on the shaft and having vertical ribs which project around it and are adapted to bear against the inside surface of the beam.

1,750,783. ARTIFICIAL BAIT. UZ C. PEMBERTON, Seffner, Fla. Filed Jan. 16, 1929. Serial No. 332,783. 11 Claims. (Cl. 43—40.)



1. An artificial bait comprising a body member; a vertically disposed slot in said body member; and a combined hook assembly and tail piece pivotally mounted to move in a vertical plane within said slot.

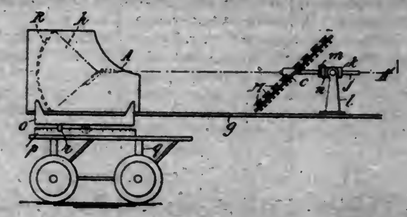
1,750,784. MACHINE FOR ROLLING BEADS IN STOVE-PIPE CASINGS. THORVALD A. M. PETERSEN, Los Angeles, Calif., assignor to Union Tank & Pipe Co., Los Angeles, Calif., a Corporation of California. Filed Feb. 13, 1929. Serial No. 339,576. 5 Claims. (Cl. 153—9.)



1. In a device for rolling corrugations in a tubular member, the combination of a primary forming element; a secondary forming element; means for synchronously operating said elements; a supporting body; walls forming a recess in said body; a plate covering said recess and secured to said body; a head operating in said recess; walls forming a notch in said head; a cover closing one side of said notch and secured to said head, said operating means extending through openings in said head and said cover, said secondary forming element secured to said operating means and operable therewith within said notch; retaining members securing said element to said operating means; a pivot bearing, said operating means supported in said pivot bearing; a gear train, said gear train synchronously operating said primary and secondary forming elements; and mechanism for moving said head and moving said element associated therewith toward or away from the other of said elements.

1,750,785. OPTICAL APPARATUS FOR PROJECTING ILLUMINATED SIGNS UPON SCREENS. CYRIL ERNEST RANDALL and LEONARD ROBERT THOMPSON, London, England, assignors to John Clifford Savage, London, England. Filed Dec. 13, 1928, Serial No. 325,848, and in Great Britain Dec. 14, 1927. 17 Claims. (Cl. 40—130.)

1. Method of projecting signs on to distant screens, consisting in projecting an approximately parallel beam of light on to an assemblage of light transmitters said assemblage intersecting the beam of light at a relatively short distance from the projector and adjusting indi-



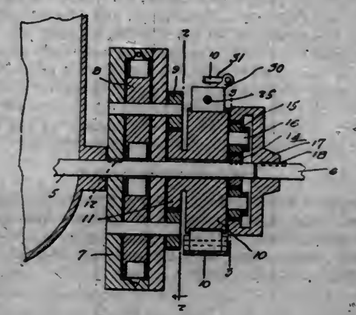
vidual transmitters so that light spots are brown on to the distant screen in predetermined disposition for constituting the sign.

1,750,786. BRACELET CHAIN. WILFRED J. ROY, East Orange, N. J., assignor to Gemex Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 20, 1928. Serial No. 300,784. 4 Claims. (Cl. 59—80.)



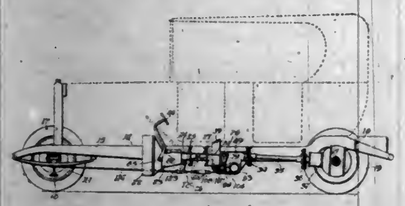
1. A bracelet chain structure comprising a series of units each having side walls with the end portions of the side walls of one unit overlapping the end portions of the side walls of the next unit, said overlapping portions being provided with registering openings, a member comprising a shell, a pin device slidably mounted in said shell with its ends extending into said openings to connect adjacent units together, a spring within said shell normally urging said pin device to extend into said openings while permitting yielding movement for withdrawal from said openings, a fingerpiece on said pin device extending outwardly thru said shell for withdrawing said pin device from the openings, and means for retaining said fingerpiece in withdrawn position.

1,750,787. TRANSMISSION MECHANISM. KARL JOSEF STRIGL, New York, N. Y. Filed July 6, 1928. Serial No. 290,721. 2 Claims. (Cl. 74—34.)



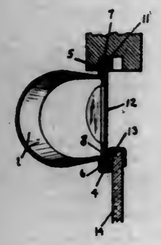
1. In combination, a drive shaft, a driven shaft, a fly wheel rotatable with the drive shaft, control members on the fly wheel for retarding the same under influence of centrifugal action, a brake drum rotatably mounted on the drive shaft, a gear carried by one end of the drum, planetary gears on the fly wheel for mesh with the gear carried by the drum, a brake band for co-action with the drum, a ring gear carried by the driven shaft, smaller gears carried by the opposite end of the drum, a gear on the drive shaft for mesh with the gears on the last-mentioned end of the drum whereby reverse motion may be imparted to the driven shaft upon the retardation of the drum.

1,750,788. VEHICLE BRAKE. CECIL HAMELIN TAYLOR, Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed May 19, 1924, Serial No. 714,187. Renewed June 14, 1929. 14 Claims. (Cl. 188—140.)



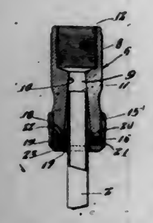
3. In combination, a vehicle having front and rear wheels, brakes for said wheels, brake actuating mechanism, and brake control mechanism operative to apply the greatest braking pressure to the wheels carrying the greatest load.

1,750,789. VENTILATOR. EUGENE A. THOMPSON, Syracuse, N. Y., assignor to Steadfast Manufacturing Company, Inc., Geneva, N. Y., a Corporation of New York. Filed Mar. 14, 1927. Serial No. 175,399. 1 Claim. (Cl. 98—2.)



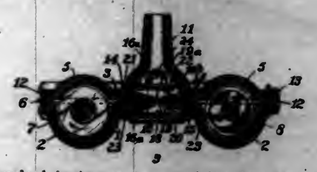
In a device of the class described, a plate having its central portion formed into an open sided cylinder, a second plate having a plurality of spaced apertures and having an outwardly extending baffle adjacent the edge of each aperture, a recess formed on the top longitudinal edge of the first named plate for the reception of one longitudinal edge of the second named plate, a recess formed on the bottom longitudinal edge of the first named plate for the reception of the other longitudinal edge of the second named plate and a glass receiving recess formed on the second-named plate adjacent the last named reception.

1,750,790. COUPLING. LELAND S. BESSONETT, San Francisco, Calif., assignor, by mesne assignments, to Standard Oil Company of California, a Corporation of Delaware. Filed Mar. 23, 1925. Serial No. 17,651. 1 Claim. (Cl. 285—123.)



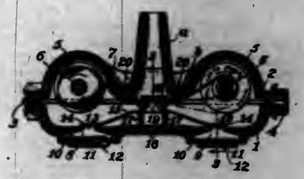
A suction hose coupling comprising a body having a tapered central passage, means for securing the body to a flexible conduit, a packing ring mounted within the tapered central passage at one end thereof and adapted to seat upon a seat formed within the body so that the packing ring will extend into said central passage at the end of the central passage, and means secured to said body for holding the packing ring in position, said latter means having a central bore larger than the bore of the packing ring so as to permit tubes of variant diameters to be removably inserted through the packing ring to engage the tapered walls of the bore of the said body to hold said tubes from being drawn through the body.

1,750,791. MUSICAL INSTRUMENT. HERBERT G. BEYER, Baltimore, Md. Filed Nov. 3, 1928. Serial No. 317,025. 8 Claims. (Cl. 84—93.)



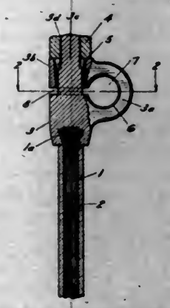
2. A musical instrument comprising two separable casing members with spaced roll receiving pockets connected by a narrow passage, the walls of the said casing at said narrow passage being re-entrant relative to the walls of the pockets, said narrow passage having on each side thereof a tracker board surface, and a reed carrying member on each side of said narrow passage seated in the re-entrant wall, substantially as described.

1,750,792. MUSICAL INSTRUMENT. HERBERT G. BEYER, Baltimore, Md. Filed Nov. 17, 1928. Serial No. 320,148. 6 Claims. (Cl. 84—93.)



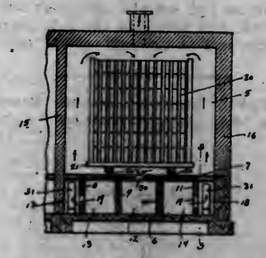
5. A musical instrument comprising a casing having a centrally disposed mouth piece, rolls in the casing on opposite sides of the mouth piece, feeler fingers disposed centrally of the casing in line with the mouth piece, wind chests carried by the casing, valves controlling the wind chests and operated by the fingers controlled by the perforated sheet passing from one roll to the other.

1,750,793. TERMINAL FOR ELECTRIC WIRES. OLIVER H. BROWN, Davenport, Iowa. Filed Dec. 16, 1927. Serial No. 240,457. 2 Claims. (Cl. 175—259.)



1. A clamp comprising a body, a threaded post united thereto, a split annular member having one end united to the body and its opposite end formed with a tapered opening adjacent and surrounding the post, the outer end of said tapered opening being the larger.

1,750,794. METHOD OF AND APPARATUS FOR DRYING LUMBER. CLIFFORD A. CUTLER, Buffalo, N. Y. Filed Jan. 14, 1925. Serial No. 2,274. 2 Claims. (Cl. 34—46.)



1. A lumber drying kiln comprising a chamber having a trackway extending lengthwise thereof and adapted to receive lumber carrying trucks, a suction duct located below the rails, a discharge duct at each side of the suction duct, a compartment at one side of each of the discharge ducts, the wall between each discharge duct and adjacent compartment being formed with openings, air reheating means, and means for withdrawing air from the kiln through the suction duct, passing it through the discharge ducts and into the compartments, and then discharging it upwardly into the kiln and bringing it in contact with the heating means.

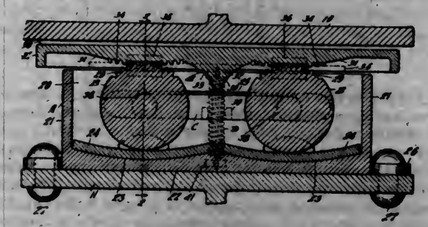
1,750,795. PROCESS OF TREATING CACAO BEANS. GEORGE DEFREN, Newton, Mass. Filed Jan. 4, 1926. Serial No. 79,269. 4 Claims. (Cl. 99—11.)

4. The process of treating raw cacao beans preparatory to roasting which comprises soaking the raw beans in water, which is initially free from constituents that are to be extracted from the beans, for a sufficient period of time whereby to remove at least the greater part of the soluble bitter constituents of the beans, and changing the water to keep down the concentration of the extracted constituents in the water.

1,750,796. ALLOY, AND CUTTING TOOL MADE THEREFROM. BURNHAM E. FIELD, Douglaston, N. Y., assignor to Haynes Stellite Company, a Corporation of Indiana. Filed Aug. 29, 1925, Serial No. 53,429. Renewed Jan. 11, 1929. 6 Claims. (Cl. 75—1.)

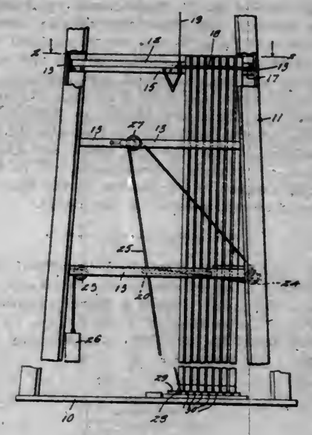
1. An alloy consisting chiefly of tungsten, cobalt, and chromium, and containing upward of 35% tungsten, upward of 30% cobalt, a substantial proportion of chromium less than 12%, and between 0.2% and 1.25% of boron.

1,750,797. ANTIFRICTION BEARING. WILLIAM A. GEIGER, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 5, 1926. Serial No. 86,171. 8 Claims. (Cl. 308—226.)



1. In an anti-friction bearing, the combination with a retainer provided with horizontally extending guideways; and anti-friction means adapted to move to either side of central position with respect to said retainer; transmitting members detachably associated with said anti-friction means, said transmitting members extending through said guideways; and vertically arranged springs extending through said transmitting members to maintain the same in cooperative relation with said anti-friction means, said springs being adapted to be flexed intermediate their ends upon movement of said anti-friction means to either side of central position, whereby said anti-friction means are returned to central position when free from load.

1,750,798. PIPE-HANDLING APPARATUS FOR DERRICKS. COLUMBUS MONROE GIDLEY, Corsicana, Tex. Filed Apr. 28, 1928. Serial No. 273,725. 9 Claims. (Cl. 255—1.)



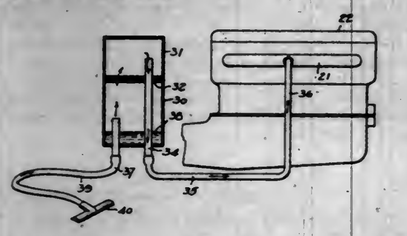
1. In racking apparatus for racking pipe in oil well derricks, a platform upon the derrick floor for the reception of the lower end of the pipe, a rack at the upper end of the derrick for the reception of the upper end of the pipe, a horizontally swinging arm adjacent the upper end of the derrick, and means for connecting said arm with the lower end of a pipe section to cause said arm to be horizontally swung as the pipe is lowered to place the same upon the platform, said arm in its swinging movement engaging the upper end of the pipe to direct the same into said rack.

1,750,799. ORNAMENTED ARTICLE OF WEARING APPAREL. ALFRED A. GLIDDEN, Watertown, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Massachusetts. Filed Aug. 22, 1927. Serial No. 214,621. 1 Claim. (Cl. 41—10.)



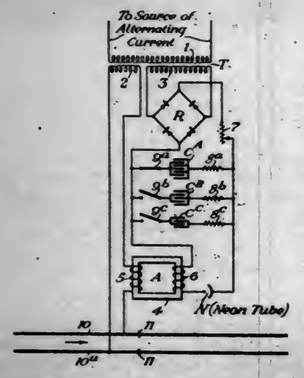
A shoe comprising an upper consisting of a single piece of fabric, and a sole, the upper having imprinted with ink impressed thereinto lines sub-dividing the same into conventional shoe upper parts.

1,750,800. VACUUM-CLEANER ATTACHMENT FOR AUTOMOBILE ENGINES. SYDNEY R. GOULD, Bakersfield, Calif. Filed Jan. 18, 1927. Serial No. 161,897. 1 Claim. (Cl. 183—51.)



In a vacuum cleaner attachment for internal combustion engines, a tank, a body of liquid adapted to contain a filtering element in the tank above the liquid, a pipe extending through and above the filtering element and adapted for connection to the intake manifold of an engine to create an induced suction within the tank above the filtering element, a second pipe adapted for connection to a nozzle and extending into the tank to a point above the liquid and below the filtering element, so that the induced suction created within the tank will be transmitted to the pipe and nozzle and the air discharged into the tank as a consequence will be filtered by the filtering element in its passage to the first pipe and the filtered matter deposited on the liquid.

1,750,801. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. LARS O. GRONDAHL, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927, Serial No. 218,772. Renewed Aug. 29, 1929. 9 Claims. (Cl. 246—40.)



2. In combination with the rails of a railway track and a source of alternating current connected therewith, an impedance interposed between said source and a track rail, and means including a neon tube for periodically varying the value of said impedance and thereby periodically varying the amplitude of the current supplied to the rails from said source.

1,750,802. SWITCH RAIL FOR MONORAIL SUSPENDED RAILWAYS. OSWALD HAFERKORN, Poppitz, near Rochlitz, Germany. Filed Mar. 9, 1928, Serial No. 260,405, and in Germany Nov. 22, 1927. 2 Claims. (Cl. 104—100.)

2. In a switch for mono-rail suspended railways and in combination with a track rail and a branch rail having a free notched end, the arrangement of a switch rail pivoted to the free end of said track rail and movable



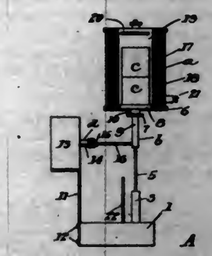
thereon in upward and sidewise directions and having a free notched end, and means on the said branch rail for guiding the free end of the said switch rail.

1,750,803. STAND. ARTHUR C. HAYDEN, Brockton, Mass. Filed Apr. 6, 1928. Serial No. 268,030. 2 Claims. (Cl. 248—41.)



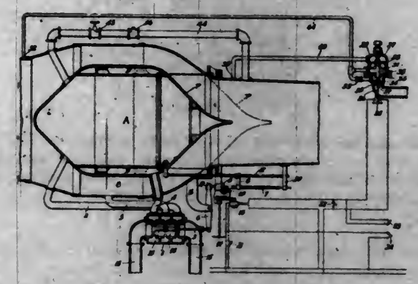
1. A stand comprising a base, a post rising therefrom, a head on the post having forks, each having axially alined smooth and threaded holes therein, removable screws in the fork holes, arms pivotally mounted on the screws and having seats adapted to receive the base of a motion picture projector or the like, and screws threaded into the arms for abutting engagement with the post to cause the seats to press against the projector base and to relatively adjust the arms in levelling the base.

1,750,804. DENTAL DEVICE. GEORGE M. HOLLENBACK, Los Angeles, Calif. Filed Feb. 12, 1927. Serial No. 167,826. 4 Claims. (Cl. 161—16.)



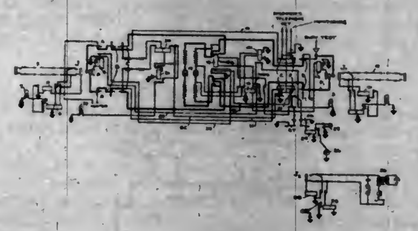
1. In a device of the character as described, a heating oven having a chamber open at its lower end and formed to receive a flask, a flask carrier movable vertically into and out of the oven, means for supporting said flask within the heating oven for a predetermined length of time and for releasing the carrier at the end of said time, and means for enabling said carrier to drop a sufficient distance to withdraw the flask completely from the heating oven when the carrier is released.

1,750,805. FLUID-CONTROL SYSTEM. OTTO V. KRUSE, Narberth, Pa., assignor, by mesne assignments, to I. P. Morris Corporation, a Corporation of Delaware. Filed Jan. 31, 1925. Serial No. 6,126. 41 Claims. (Cl. 137—139.)



1. In a fluid control system the combination with a conduit having a valve provided with a casing, and a plunger telescoping therewith to form a fluid chamber, of fluid pressure operating means for opening and closing said valve, and control means for said operating means comprising connections to said conduit adapted to develop different pressures upon changes in the velocity of the flow in said conduit and means whereby the difference between said pressures actuates said control means to cause continuous closing movement of said valve after it has once started.

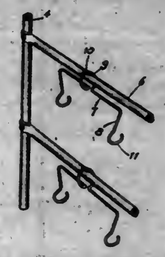
1,750,806. MANUAL TELEPHONE SYSTEM. JOHN H. LEWIS, Jr., Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 23, 1928. Serial No. 272,111. 10 Claims. (Cl. 179—41.)



1. In a telephone system, an incoming line, a plurality of outgoing lines, a plurality of cord circuits for interconnecting said incoming line with any of said outgoing lines, each of said cord circuits normally having its ends conductively connected together, and means including a manually controlled device for conductively separating but inductively connecting the ends of any desired one of said cord circuits.

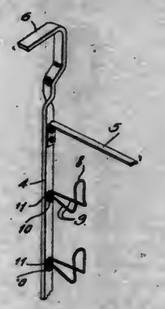
1,750,807. HANGER FOR ARTICLES TO BE PLATED. LOUIS LICHTMAN, New York, N. Y., assignor to Chromeplate, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1928. Serial No. 322,223. 5 Claims. (Cl. 204—5.)

4. A hanger for articles having reduced ends, of substantially yoke shape and provided intermediate the ends of the body, and at the end of each arm with an open ring, the ring of the body being adapted for connection with a support, and the rings of the arms being adapted to receive the pointed ends of the article, the yoke being of resilient material, and the arms normally converging



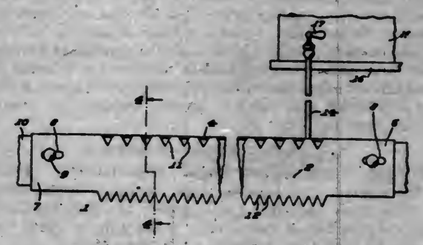
toward their free ends for the purpose set forth, and a supporting bar over which the open ring of the body engages, said ring being secured to the bar.

1,750,808. RACK FOR SUPPORTING ARTICLES TO BE ELECTROPLATED. LOUIS LICHTMAN, New York, N. Y., assignor to Chromeplate, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1928. Serial No. 322,224. 5 Claims. (Cl. 204—5.)



5. A rack or hanger for elongated articles having end openings, including a substantially rectangular frame, opposite members thereof having hangers, each hanger including a substantially horizontal portion connected with the member and a substantially vertical portion at the outer end thereof, said last named portion compressible to enter an opening of the article and resilient to expand to close contact with the walls thereof, the horizontal portions serving as stops to limit the downward movement of the article.

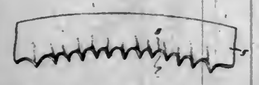
1,750,809. BASTER FOR MEATS. GEORGE JOSEPH LIEBER and PATRICK C. MURPHY, Chicago, Ill. Filed Apr. 22, 1929. Serial No. 357,165. 7 Claims. (Cl. 53—6.)



7. In a baster for meats, a container comprising front and rear faces and an open top, one of said faces being

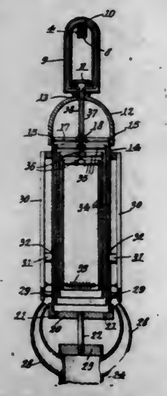
perpendicular and serrated along its upper edge to permit the overflow of the contents of the container, said front and rear edges being brazed together along one edge, teeth formed in said perpendicular edge below its junction with said rear edge, and supply means for said container.

1,750,810. CARVED VENEER FOR ARTIFICIAL TEETH. FREDERICK C. MILLER, Detroit, Mich., assignor of one-half to William H. Warren, Detroit, Mich. Filed Mar. 7, 1927. Serial No. 173,434. 2 Claims. (Cl. 32—4.)



1. A method of producing a dental plate, which method consists in providing a pattern having teeth mounted therein, applying a pliable veneer to said pattern at the teeth thereof, forming an impression of said pattern, teeth and veneer in a mold, removing the pattern and veneer from the mold, and pouring into the impression.

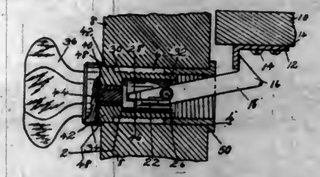
1,750,811. CIRCUIT CLOSER. WILLIAM J. MULLIGAN, Parkersburg, W. Va. Filed Mar. 2, 1926. Serial No. 91,759. 2 Claims. (Cl. 200—52.)



1. In apparatus of the class described a circuit closer including a supporting cap, a tubular contact member suspended therefrom, a tubular contact member concentrically disposed within the first named member and mounted for oscillation relative thereto, one contact member being electrically connected to one terminal of a circuit and the remaining contact member being electrically connected to the other terminal of the circuit, spring arms carried by the outer contact member, means thereon adapted when released from normal position, to contact with the inner contact member, thereby to close a circuit between the members, a spring connection between the arms extending diametrically through but out of contact with all of the contact members, fusible means interposed between each arm and the outer contact member for holding the arm against actuation by the connecting spring, and means for oscillating the tubular contact members to close a circuit therethrough.

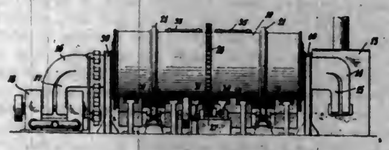
1,750,812. COMBINED KNOB AND LATCH. FRANZ NETSCHERT, Los Angeles, Calif., assignor to The Technical Glass Company, Incorporated, Los Angeles, Calif., a Corporation of California. Filed July 6, 1927. Serial No. 203,708. 1 Claim. (Cl. 292—98.)

In a cupboard catch, an externally threaded sleeve, closed at one end, a knob having a shank threaded into said closed end, a cam member secured to said shank, and positioned in said sleeve, a cam on the lower end of said member, a catch pivoted within said sleeve at its opened end, a spring for opposing the movement of said catch,



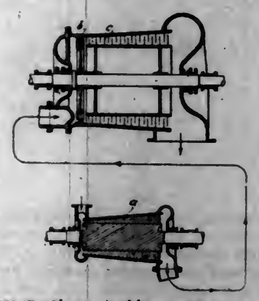
means on the inner end of said catch adapted to be engaged by said cam when said knob is turned to operate said catch, and an open ended threaded sleeve adapted to be adjusted on the threads of said first sleeve.

1,750,813. DRYING APPARATUS. ALFRED T. OAKLEY, Thompson, Ohio, and PAUL LUPKE, Jr., Trenton, N. J., assignors to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Nov. 10, 1926. Serial No. 147,414. 11 Claims. (Cl. 34—5.)



1. In drying apparatus of the character described, in combination, a rotatable drum, means for circulating gases through said drum comprising an inlet and outlet conduits supported independently of the drum but within the drum and having spaced openings distributed along the length of the drum substantially as and for the purpose described.

1,750,814. HIGH-PRESSURE STEAM TURBINE. WILHELM PAPE, Berlin, Germany, assignor to Bergmann-Elektricitätswerke Aktiengesellschaft, Berlin, Germany, a Corporation. Filed Feb. 10, 1925, Serial No. 8,250, and in Germany Feb. 22, 1924. 1 Claim. (Cl. 60—70.)

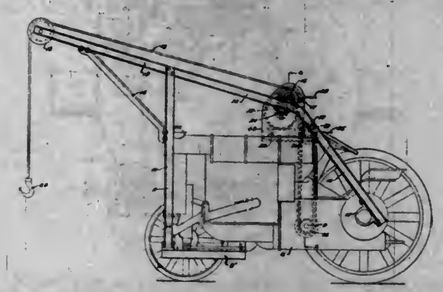


A high pressure steam turbine comprising a drum turbine for the high pressure stages, a drum turbine for the low pressure stages, and a wheel turbine for the medium pressure stages, said wheel turbine being arranged intermediate said drum turbine and immediately adjacent the high pressure stage.

1,750,815. HOISTING DEVICE. GLENWAY M. RIX, Cedarburg, Wis., assignor to Squier-Rix Company, Milwaukee, Wis. Filed Jan. 5, 1925. Serial No. 635. 4 Claims. (Cl. 212—142.)

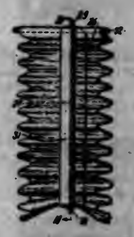
1. The combination with a tractor having a driving shaft, of a hoisting device therefor, comprising a frame

mounted on the tractor and having an extension forming a boom, a shaft journaled on the frame, a drum journaled on the shaft, a clutch means for connecting the drum to the shaft, a counter shaft journaled on the frame and having a geared connection with the drum shaft, a second counter shaft journaled on the frame and having a non-reversible worm and worm-wheel connection with the first counter



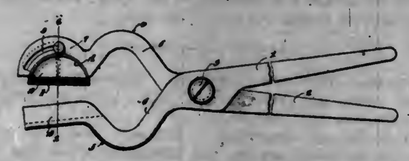
shaft, a third counter shaft journaled on the frame, gears journaled on the third counter shaft and having a geared connection with the second counter shaft, clutch means for positively connecting either one of the last mentioned gears to the third shaft, means for drivingly connecting the third counter shaft to the driving shaft, and a cable connected to the drum and extending towards the boom.

1,750,816. CURTAIN CONFINER. CATHERINE ROGERS, Taunton, Mass. Filed May 28, 1929. Serial No. 366,746. 4 Claims. (Cl. 156—33.)



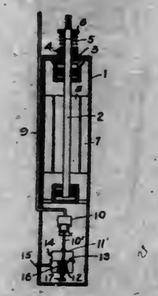
3. A curtain confiner comprising a rod adapted to penetrate the folds of a portion of a shirred curtain and provided with a detachable stop at its penetrating end, the opposite end of the rod being provided with a hinge pintle member and with a hinge socket member attachable to a window casing, and having means for limiting turning movements of the pintle member and swinging movements of the rod.

1,750,817. TONGS. WILLIAM E. ROOT, Bloomfield, Conn. Filed Mar. 31, 1928. Serial No. 266,316. 1 Claim. (Cl. 81—51.4.)



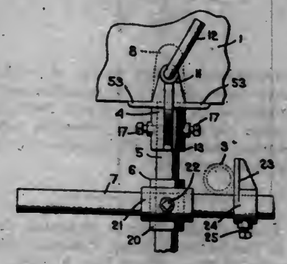
A tong of the character described, comprising a pair of handles being in crossed relation, pivotal means between said handles, each of said handle members being extended forwardly of the pivotal point and offset with respect thereto, one of said offset portions terminating in a straight jaw member, a curved jaw member extending from the other offset portion and having a groove in the inner face thereof and laterally opening slots communicating with said groove, a jaw element having a curved edge designed to fit in said curved jaw member, a securing pin carried by said curved jaw member having one end extended in said grooves, a retaining pin extending transversely of the curved jaw member and engaging and holding the extended end of said pin, said straight jaw member being of substantially V-shaped cross sectional design to receive said jaw element.

1,750,818. MEANS FOR PREVENTING LEAKAGE. HARRY SAUVEUR, Hanover, Germany. Filed Aug. 15, 1927, Serial No. 213,180, and in Germany Aug. 12, 1926. 4 Claims. (Cl. 286—9.)



1. In a high-speed machine comprising a casing filled with a fluid under pressure and having an aperture therein, a shaft extending through said aperture and into said casing, packing means on said casing and around said shaft comprising a rotatable packing member which is subjected to the combined action of the pressures within and without said casing, a stationary packing member around said shaft, the pressure outside the casing tending to press one member against the other member, means for applying an additional pressure on said rotatable member which tends to hold it engaged with said stationary member against a surplus of the pressure within said casing, and means for maintaining a pressure within said casing to a value somewhat in excess of the outside pressure.

1,750,819. TEMPORARY PIPE SUPPORT. JOHN L. SCHALLER, Wellesley, Mass. Filed Jan. 2, 1929. Serial No. 329,903. 7 Claims. (Cl. 248—34.)



1. A temporary pipe support for use in running a length of pipe, said support comprising a clamping member adapt-

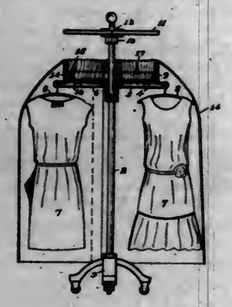
ed to be clamped to an overhead support, a suspender detachably but rigidly secured to the clamping member and depending therefrom, a bracket fitting adjustable on said suspender, a pipe-supporting arm carried by the fitting and adjustable horizontally relative thereto, and a pipe-positioning element adjustably secured on said arm.

1,750,820. TOOL FOR REMOVING CAPS FROM JARS. JOHN SCHLEINZER, Rochester, N. Y. Filed Apr. 6, 1928. Serial No. 267,971. 4 Claims. (Cl. 81—3.1.)



1. A wrench for removing the caps of jars comprising a disc, fingers formed on the periphery of said disc and extending downward therefrom, said fingers being adapted to engage the rim of the cap to turn and lift the cap, said wrench having fingers extending up therefrom by which said wrench may be better grasped and turned and raised.

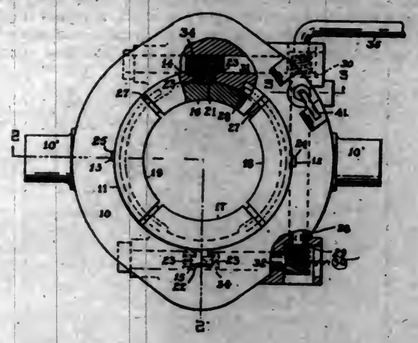
1,750,821. MERCHANDISE-COVER CONTAINER. WILLIAM EDWARD SNAMAN, Pittsburgh, Pa. Filed Dec. 2, 1927. Serial No. 237,251. 3 Claims. (Cl. 312—3.)



3. In a merchandise display device, the combination of a textile fabric cover member for enclosing said device, a container supported on the top of said device for storing said cover when not in use, and removable means for detachably securing the upper end of said cover member on the inside of said container.

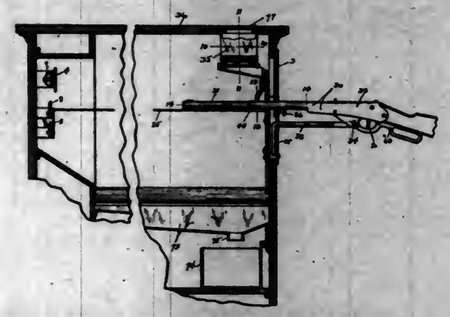
1,750,822. ELEVATOR. JOHN D. SPALDING, Crafton, Pa., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 5, 1928. Serial No. 259,120. 3 Claims. (Cl. 24—263.)

1. In an elevator or the like, a frame having a downwardly tapering opening, slips guided on the wall of the opening, shafts, means for rotating the shafts, and connections between the shafts and the slips whereby the rotation of the shafts operate the slips, in combination



with means to lock the shafts from rotation in either direction while permitting the locked shafts to be rotated in the opposite direction.

1,750,823. RIFLE RANGE. RICHARD W. STEWART, Auburn, N. Y. Filed Apr. 28, 1928. Serial No. 272,185. 4 Claims. (Cl. 273—101.)

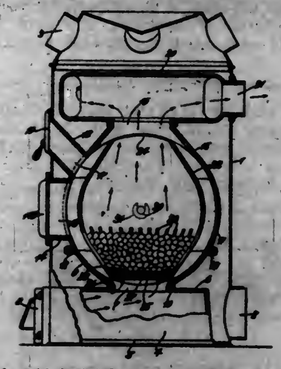


1. In a device of the class described, a cabinet, a plurality of targets secured in one end of the cabinet, a window in the opposite end of the cabinet, a rifle movably mounted on the cabinet, a hopper, a supply of bullets in the hopper, a movable bottom for the hopper, a plurality of apertures positioned in echelon on one edge of the bottom for the reception of bullets, a trough secured to the bottom of the hopper, a flexible conduit connecting the trough and the rifle, and means for moving such bottom whereby the bullets in the apertures are moved out from the hopper and deposited in the trough for movement through the flexible conduit to the rifle.

1,750,824. HOT-AIR FURNACE. HENRY TIELKEMEYER, St. Louis, Mo. Filed July 11, 1929. Serial No. 377,381. 8 Claims. (Cl. 126—99.)

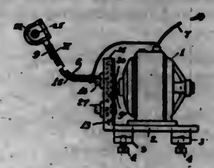
1. A furnace comprising an enclosure having an opening at its lower end for the admission of air and the discharge of solid products of combustion and having an opening at its upper end for the discharge of smoke and fumes of combustion, means forming a fuel inlet passage at one side of said enclosure, an approximately oval fire pot supported in a horizontal axis in said enclosure and having an opening at its upper end, a grate

forming a fuel support at the lower end of said fire pot, and means for turning said fire pot to place said opening



in line with said fuel inlet passage to receive fuel and in line with said opening at the upper end of said enclosure to discharge smoke and fumes of combustion.

1,750,825. POWER-DRIVEN WRENCH. HARRY A. THOMPSON, Bronxville, N. Y. Filed Nov. 12, 1926. Serial No. 147,978. 6 Claims. (Cl. 81—54.)



1. In combination, a support; a pair of rotary members mounted on said support; means for rotating the members in opposite directions; couplings respectively yieldably and rigidly mounted on said members; a flexible shaft adapted to interlock with either of said couplings; and a wrench driven by said shaft and including a member having oppositely opening sockets connected to said shaft.

1,750,826. WELL-DRILLING APPARATUS. GEORGE R. WATSON, Waterloo, Iowa, assignor to Armstrong Manufacturing Company, Waterloo, Iowa. Filed Nov. 9, 1928. Serial No. 318,207. 2 Claims. (Cl. 254—189.)



1. In combination, a relatively fixed support, a resilient device mounted thereon and comprising a pile of alternated centrally apertured rigid plates and soft rubber cushions, said sheave-block having a threaded shank passed through the central apertures of said pile and adjustably secured thereto to be resiliently supported thereon.

1,750,827. VIBRATION DAMPENER. ERNEST E. WEMP, Detroit, Mich. Filed Jan. 29, 1927. Serial No. 164,631. 6 Claims. (Cl. 192—55.)



6. In a clutch, the combination of a driving member, a driven disc frictionally engaging the driving member near the periphery of the driven disc, a shaft, a hub for the driven disc, means connecting the hub and shaft so as to provide for a positive driving connection between said hub and shaft, said means permitting of limited relative movement between the hub and shaft, means tightly fixed to said shaft and having a frictional surface to surface engagement with said hub, said connection between the hub and shaft permitting relative movement when vibrations are received by the driven member from the driving member, said relative movement being materially multiplied near the periphery of the driven disc where it frictionally engages the driving member, and said tightly fixed means on the shaft frictionally opposing said relative movement.

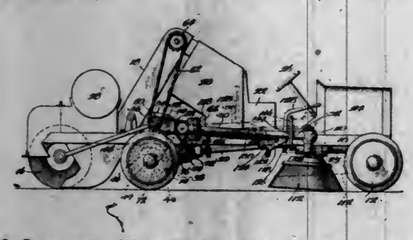
1,750,828. CLUTCH. ERNEST E. WEMP, Detroit, Mich. Filed Aug. 24, 1927. Serial No. 215,171. 4 Claims. (Cl. 192—68.)



1. In a clutch, the combination of a driven disk provided with laterally projecting spring-abutment studs, a

hub provided with a hub flange having spring-abutment lugs and an annulus of coil springs interposed between the lugs and the studs for yieldingly resisting the relative movement, the said coil springs acting as shock absorbers and centralizers in a small lost motion between the disk and hub flange, and means entirely enclosed in said annulus for dissipating energy during such lost motion.

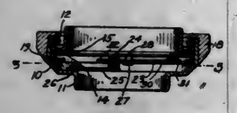
1,750,829. GUTTER-BROOM STREET SWEEPER. FRED D. WILSON, Harvey, Ill., assignor to Austin Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1925. Serial No. 9,600. 9 Claims. (Cl. 15—87.)



8. In a power driven street sweeper, a frame, front and rear wheels therefor, a transversely disposed power shaft in front of a rear wheel, a longitudinal power transmitting means operated by said power shaft, a gutter broom rotatable on a vertical axis, said longitudinal power transmitting means being pivoted to the frame at one end and at the other end rotatably supporting said broom, said broom being mounted to rock about said power transmitting means, means for placing said broom in different vertical positions, means for restricting the rocking of said broom about said power transmitting means, means on said transverse power shaft supplying power to the transmitting means to rotate the brush in all its adjusted positions, and guiding means on the frame controlling the lateral movement of the broom.

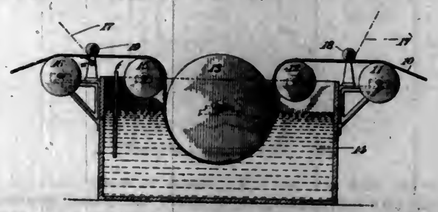
9. In a power driven street sweeper, a vertically disposed gutter broom, a horizontally disposed rotatable member supporting said broom, means supporting said member, means for rotating said broom, a lever connected to said member, said lever having oppositely extended arms, a spring connected to one of said arms so as to normally apply a tension tending to rotate said member in one direction, and means positioned to engage the other arm of said lever so as to limit said rotative movement in opposite directions.

1,750,830. VIGNETTING SHUTTER. ANDREW WOLLENSAK, Rochester, N. Y., assignor to Wollensak Optical Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 31, 1928. Serial No. 316,233. 1 Claim. (Cl. 95—63.)



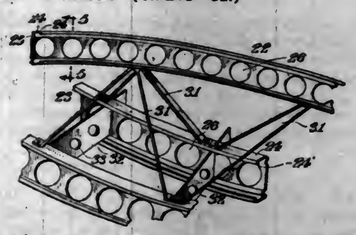
In a vignetting shutter, the combination of an iris diaphragm, a shutter blade pivoted near the periphery of the diaphragm, a spring tending to swing said blade into position to cover the diaphragm opening, manually operable means for moving the diaphragm at a speed directly under the control of the operator, and interengaging members, on the shutter blade and said manually operable member, for swinging the blade positively to open position as the diaphragm is opened, and for holding the blade in open position, against the opposition of its spring, as the diaphragm is moved toward closed position, said interengaging members being arranged to release the blade as the diaphragm reaches its position of minimum opening, to permit the blade to swing freely to closed position, under the influence of the spring, at a speed independent of the speed with which the manually-operable member is moved.

1,750,831. ART OF MAKING METAL FABRICS. EDMUND BURKE CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 5, 1927. Serial No. 173,085. 1 Claim. (Cl. 204—6.)



The improvement in the art of producing a metal fabric which comprises covering one side of a wire mesh with a fabric sheet having conducting material next to the mesh, passing the wire mesh and fabric sheet through an electroplating bath whereby the metal of the bath is deposited on the wire mesh and the conducting material of the fabric sheet, and then removing the fabric sheet.

1,750,832. WING CONSTRUCTION FOR AIRCRAFT. EDMUND B. CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,844. 6 Claims. (Cl. 244—31.)



1. A wing construction comprising spar members, each having upper and lower chords formed of spaced channel members with their side portions united and struts connecting said chords, upper and lower cross ribs in staggered relation recessed to fit over the upper and lower parts of the spar members and gussets connecting the rigs and spars.

1,750,833. TUBULAR MEMBER. EDMUND B. CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed May 18, 1927. Serial No. 192,245. 5 Claims. (Cl. 189—34.)



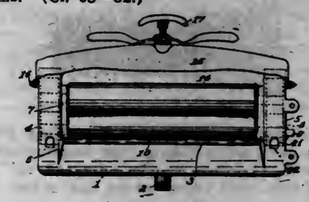
1. A tubular member formed of a one piece tapering blank folded to triangular cross section with two overlapping sides substantially equal in width the inner of which has its terminal edge fitting in a corner of said tubular member, said overlapping sides having registering holes with flanges around one set of holes extending through the other set of holes and clinched to fasten the sides together.

1,750,834. METAL FUSELAGE. EDMUND B. CARNS, New York, N. Y., assignor to Cairns Development Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 2, 1929. Serial No. 351,870. 3 Claims. (Cl. 244—30.)



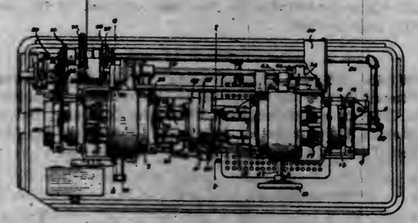
1. A fuselage for aircraft, substantially triangular in cross section and made of three preformed sides tapering in wall thickness from a section of maximum stress to a section of minimum stress, each side having a convex curvature from one end to the other and having a continuous convex transverse curvature at all points along its length, whereby each side is longitudinally and transversely arched, such arched assembly of the three sides being substantially rigid in all dimensions.

1,750,835. WRINGER. FLOYD L. CHAMBERLAIN, Waterloo, Iowa, assignor to Chamberlain Corporation, Waterloo, Iowa. Filed Nov. 9, 1928. Serial No. 318,225. 2 Claims. (Cl. 68—32.)



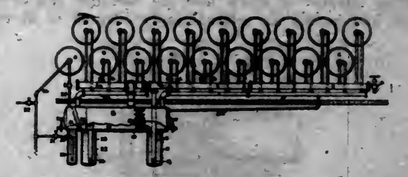
1. In a wringer, a U-shaped unitary sheet metal frame structure, consisting of like longitudinally united halves, the structure including inwardly troughed erect standards, and a basal connecting member therefor, being an upwardly troughed part with upwardly divergent walls wider at the top than said standards, the lower parts of said standards having pressed in tongues to support apertured bearings for roller terminations, and an end wall of one standard having an aperture to be traversed by one of the roller terminations, said basal member having a drainage outlet.

1,750,836. AUTOMATIC MACHINE TOOL. WILLIAM S. DAVENPORT and WILLIAM A. THOMAS, Rochester, N. Y., assignors to Davenport Machine Tool Co., Inc., Rochester, N. Y., a Corporation. Filed Feb. 13, 1926. Serial No. 88,042. 11 Claims. (Cl. 77—23.)



1. An automatic machine tool comprising two rotary tool carrying heads, two spaced bearings surrounding said heads and in which said heads turn about a common axis, means supporting one of said bearings so that it may be moved in the direction of the axis of rotation of its head, toward and from the other to vary the distance between the heads and a work supporting connection detachably secured to both of the heads and rotatable coaxially with the latter.

1,750,837. DRYING SYSTEM. FREDERICK C. FARNSWORTH, Bala, Pa. Filed Mar. 8, 1929. Serial No. 345,287. 7 Claims. (Cl. 34—48.)

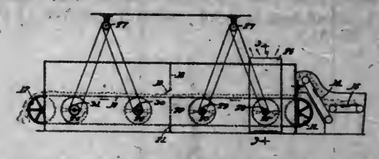


1. The herein described automatic method for supplying steam to a series of drying cylinders arranged in sections over which paper or other material in web form travels successively while being dried, which consists in supplying steam to the cylinders of the dry end section from which the web to be dried passes in its dried condition, separating the steam and water of condensation which passes from the said drying cylinders and delivering the uncondensed steam into another portion of the drying cylinders of a section nearer to the wet end of the apparatus, and similarly separating the water of condensation from the steam as it passes from said cylinders, and finally supplying the uncondensed steam to one or more cylinders at the wet end section or where the web to be dried is in its wettest condition, and wherein further, the steam is circulated from the cylinders of one section to the cylinders of the next section nearer the wet end and so on from section to section at a substantially constant pressure differential by supplying the steam from the supply side of the cylinders of one section through a water seal and static head to the supply side of the next section of cylinders whenever the differential between successive sections shall increase materially above the predetermined static head and differential thereby to be maintained.

1,750,838. CLEANER. HERMAN FUHRBERG and CONRAD T. JOHNSON, Seattle, Wash. Filed Mar. 5, 1927. Serial No. 173,213. 1 Claim. (Cl. 87—5.)

A composition of matter comprising a combination of flour, sodium carbonate, soap, water and thymol, the said ingredients being used in the following proportions; 12 level tablespoons full of flour, 6 ounces of water, 36 level tablespoons full of a composition of sodium carbonate and soap, 1 quart of luke warm water and 23 grains of thymol.

1,750,839. ONE-APRON DRIER. FRANK L. FURBUSH, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed July 1, 1929. Serial No. 375,042. 5 Claims. (Cl. 34—12.)

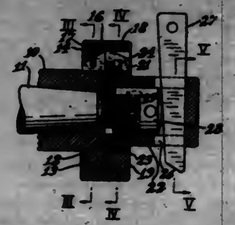


1. In a drier, the combination with an apron for conveying the material to be dried, of a series of fans located between the strands of the apron, and means for driving the fans at the feed or wet end of the apron faster than the fans at the discharge or dry end of the conveyor.

1,750,840. WHEEL PULLER. PERCY C. GROVER, Birmingham, Ala. Filed Mar. 11, 1929. Serial No. 346,206. 8 Claims. (Cl. 29—85.)

1. In a wheel puller of the character described, a sleeve internally threaded at one end and having an internally tapered bore at the other end, a compressible member having threads to cooperate with the threads of a wheel

hub and being externally tapered to cooperate with the internal taper of the sleeve, a plunger guide having at one end an external taper, an expansible externally threaded bushing adapted to screw into the threaded end of the sleeve and having an internal taper adapted to fit over



the tapered end of the plunger guide and be expanded by force applied to the plunger guide, a plunger in the plunger guide and adapted to cooperate with a wheel axle, and a wedge member positioned to cooperate with the plunger and the plunger guide.

1,750,841. ANCHORAGE MEANS. CHARLES HOPPER and WILLIAM L. ARNOLD, Manhattan, Kans.; said Hopper assignor to said Arnold. Filed Jan. 18, 1926. Serial No. 82,038. 2 Claims. (Cl. 72—105.)



2. In an anchorage means, a housing having laterally and obliquely extending spur members, all being formed from a single sheet of metal, the housing functioning as a support for reinforcing rods, the spurs as attaching means to form boards and spacing means for the bottom of the housing from the form boards simultaneously, the housing having a circular aperture and a slot axially extending therefrom, and a stop member laterally extending inward and in close proximity to the intersection of the slot and the aperture, all substantially as shown.

1,750,842. FISHING TACKLE. JOSEPH HERN, Kingston, N. Y. Filed Aug. 31, 1926. Serial No. 132,700. 1 Claim. (Cl. 43—51.)



An article of manufacture comprising a fishing float, loops at the ends thereof and centrally arranged headless pins projecting from the sides of said float in opposite alignment.

1,750,843. STRINGED MUSICAL INSTRUMENT. WALTER I. KIRK, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 454,724. 10 Claims. (Cl. 84—291.)



1. A stringed musical instrument having a body comprising an annular wooden rim, a flat wooden top forming a sounding board, and a wooden bottom, the bottom being separated from the lower edge of the rim by an air space affording communication with the interior of the instrument and having a central aperture.

1,750,844. DECORATING MATERIAL. WILLIAM G. JOPSON, Williamsport, Pa., assignor to C. A. Reed Company, Williamsport, Pa., a Corporation of Delaware. Filed Aug. 3, 1926. Serial No. 126,861. 4 Claims. (Cl. 41—10.)



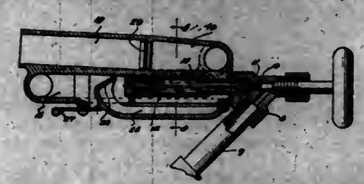
1. Pliant decorating material comprising superposed strips fastened together along their longitudinal median portions with a flexible medium only and cut inwardly diagonally from their edges toward said median portions.

1,750,845. BODY-DRYING IMPLEMENT. FRANK H. LACH, Chicago, Ill. Filed July 25, 1928. Serial No. 295,329. 2 Claims. (Cl. 15—245.)



1. A drying implement for the purpose described comprising a body having a plurality of slotted edge portions of different contour, strips of flexible material secured in said edge portions, with marginal portions of substantially uniform width projecting therefrom, and having their edges conforming to the edge contour of its associated edge portion.

1,750,846. TORCH STRUCTURE. CHARLES F. LAMBERT, Grosse Pointe, Mich., assignor, by mesne assignments, to Clayton & Lambert Manufacturing Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 19, 1927. Serial No. 240,961. 16 Claims. (Cl. 158—33.)

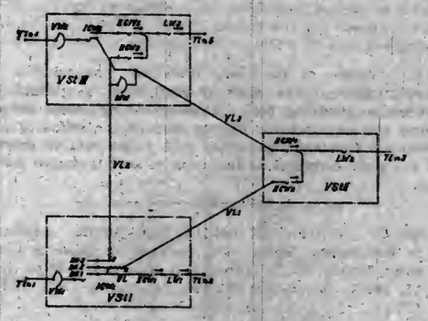


1. The method of starting, generating and conducting liquid fuel in torch structures of the type having generating tubes, which comprises passing liquid fuel through a generator tube, entrapping and heating a portion of the same while in the tube to expel the generated fuel therefrom, deflecting fuel vapors initially issuing from the tube backwardly against the tube to accelerate starting of the same, and then directly conducting the fuel vapor issuing from the generator tube backwardly and directing only a small portion against the generator in the form of flames for maintaining vaporization.

1,750,847. PROCESS OF TREATING GREENSAND OR GLAUCONITE FOR THE PURPOSE OF RENDERING IT AN EFFICIENT WATER-SOFTENING AGENT. FREDERICK K. LINDSAY, La Grange, Ill., assignor to Arizona Minerals Corporation, Yuma, Ariz. Filed Feb. 19, 1925, Serial No. 10,417. Renewed Jan. 8, 1930. 4 Claims. (Cl. 23—112.)

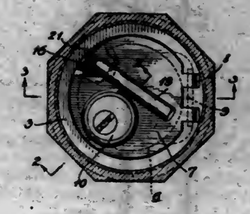
1. A process of producing an improved water-softening material which consists in producing a gel material from a mixture of sodium silicate with a soluble metal salt, agitating this mixture, adding greensand or glauconite while the mixture is being agitated and at the time gelation has begun to take place, and after complete gelation drying the resulting product.

1,750,848. AUTOMATIC TELEPHONE SYSTEM. FRITZ LUBBERGER, Berlin-Schmargendorf, and MAX LANGER, Hermsdorf, near Berlin, Germany, assignors to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemenstadt, near Berlin, Germany. Filed Nov. 26, 1926, Serial No. 150,911, and in Germany Jan. 5, 1926. 11 Claims. (Cl. 179—18.)



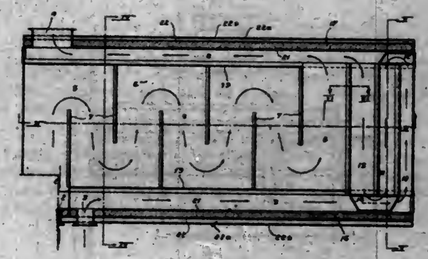
1. In a multioffice telephone system, three offices, trunks from the first office to the second office, trunks from the first office to the third office, trunks from the second office to the third office, switching mechanism in the first office operative for extending a connection over one of said trunks to the third office, said switch mechanism further operative responsive to a busy condition of the trunks from the first to the third office to extend said connection to the second office by way of one of said trunks instead of to said third office, a non-numerical hunting switch in said second office, and means responsive to said last mentioned extension for automatically operating said switch to hunt for a trunk extending from the second office to the third office.

1,750,849. COMBINED CLOSURE AND GAUGE ROD FOR OIL TANKS. ASSAD M. MALLUK, New York, N. Y., assignor to Standard Lock and Measure Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 6, 1928. Serial No. 304,224. 3 Claims. (Cl. 220—86.)



1. A tank, a filling neck thereon, a gauge rod within the neck, a lockable cover on the neck, a slot in the cover permitting opening and closing of the cover without removing the rod and permitting use of the rod without opening the cover, and means for sealing the slot when the cover is closed.

1,750,850. RECUPERATOR. GREGORY D. MANTLE and THEODORE W. MUNFORD, Pittsburgh, Pa., assignors, by mesne assignments, to Surface Combustion Company, Toledo, Ohio, a Corporation of New York. Filed May 23, 1927. Serial No. 193,446. 16 Claims. (Cl. 257—245.)

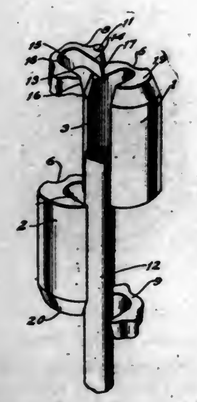


1. A recuperator having passages adapted to conduct air and having spaces through which hot gases are circulated, said recuperator comprising plates joined together, said joints being all disposed within the air passages out of contact with the hot gases.

1,750,851. SUCKER-ROD GUIDE. EARL C. MEIER, Wichita, Kans., assignor to The Production Equipment Company, Wichita, Kans., a Corporation of Kansas. Filed Jan. 8, 1929. Serial No. 331,040. 8 Claims. (Cl. 308—4.)

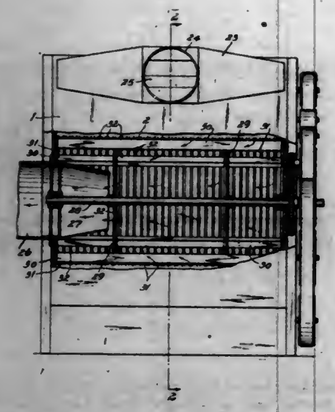
1. A rod guide for oil wells comprising an elongated pivot rod, a plurality of cylindrical rod guide members

having rod receiving grooves, said members being independently pivoted eccentrically on the pivot rod and locking members comprising malleable U-shaped castings pivoted on the ends of the pivot rod, the U-shaped members



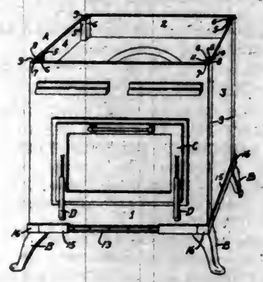
receiving a pump rod, the inner faces of the U-shaped members bearing against the ends of the first named members to flex the pivot rod to cause the inner edges of the U-shaped members to bind against the pump rod.

1,750,852. AIR-LINE HULL AND TRASH EXTRACTOR. JOHN E. MITCHELL, St. Louis, Mo. Filed Feb. 16, 1929. Serial No. 340,353. 7 Claims. (Cl. 19—37.)



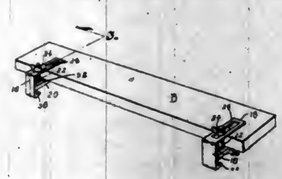
1. In a cotton cleaning machine, cotton cleaning mechanism including a hollow saw cylinder provided with circumferential openings between the saws, a casing hermetically enclosing the cleaning mechanism, means for drawing air through said circumferential openings into the interior of the saw cylinder whereby to create suction within the casing to draw crude cotton into the machine into contact with the cleaning mechanism, and hull-repelling and cotton-removing members co-operating with said saw cylinder.

1,750,853. CONSTRUCTION OF STOVES. GUILFORD S. MORLEY, University City, Mo., assignor to Majestic Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 1, 1927. Serial No. 236,894. 2 Claims. (Cl. 126—1.)



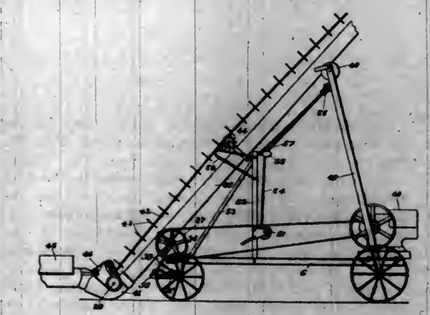
1. A stove comprising a supporting member fixed to a wall thereof and having marginal flange portions spaced outwardly from the wall to which said member is fixed, and a corner piece provided with a projection extended behind a portion of said decorative element, whereby said corner piece is supported.

1,750,854. SHINGLE GAUGE. FREDERICK L. NELSON, Alta, Iowa. Filed Feb. 13, 1928. Serial No. 253,876. 3 Claims. (Cl. 33—188.)



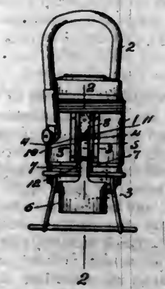
1. A device of the class described comprising a U shaped member, the arms thereof being longitudinally slotted, a clamping bolt extending through said slotted arms, and an extension on the connecting portion of the U-shaped member terminating in a finger bent to extend in the same direction as the arms of said U-shaped member.

1,750,855. PORTABLE GRAIN ELEVATOR. LEONARD B. NEIGHBOUR, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Aug. 11, 1927. Serial No. 212,135. 6 Claims. (Cl. 198—122.)



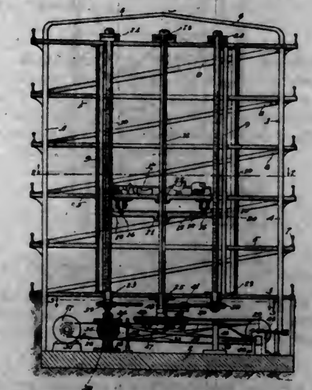
3. In a portable grain elevator, the combination of a frame comprising a rear axle, wheels mounted thereon, a front axle, steering wheels mounted thereon, a steering member projecting forwardly from said front axle and operatively connected with said latter wheels, an elevator tube, and means pivotally supporting said tube on the front end of said frame on a pivot axis disposed above said frame and intermediate the ends of said tube, said pivot axis being located forwardly of the plane of said front axle, whereby to prevent the downwardly swinging front end of said tube which extends forwardly beyond said pivot axis from interfering with actuation of said steering member when said tube is elevated to operating position.

1,750,856. LANTERN. HENRY B. PATCHE, Kansas City, Mo., assignor to Genesy Electric Lantern Company, Rawlins, Wyo., a Corporation of Wyoming. Filed Nov. 23, 1928. Serial No. 321,824. 2 Claims. (Cl. 240—10.5.)



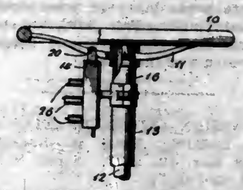
1. In a lantern, the combination with a lantern body and a handle and lamp carried thereby at the bottom and outer side thereof, of a glare shielding member movable on the outer side of the side wall of said body to two positions, in one of which it will only obstruct light projected in one direction from said lamp and so disposed as to be engaged and moved to said positions by a hand which is holding the handle, and means for engaging and releasably holding said member in either of said positions.

1,750,857. AMUSEMENT TOWER. ISAIAH D. PATTERSON, Gardena, Calif., assignor of two-thirds to John A. MacMeekin, San Jose, Calif. Filed Apr. 28, 1926. Serial No. 105,183. 11 Claims. (Cl. 272—7.)



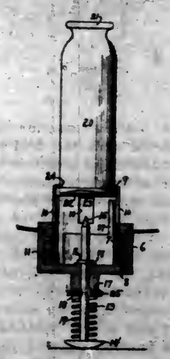
11. An amusement tower comprising in combination a vertically movable platform having a control station thereon, a carousel mounted on said platform, means to elevate the platform, means operating centrally of the platform to rotate the carousel and means in said station to control the vertical movement of the platform and the rotational movement of the carousel.

1,750,858. LOCK. ARMIN POLLAK, Bronx, N. Y. Filed July 10, 1928. Serial No. 291,579. 5 Claims. (Cl. 70—129.)



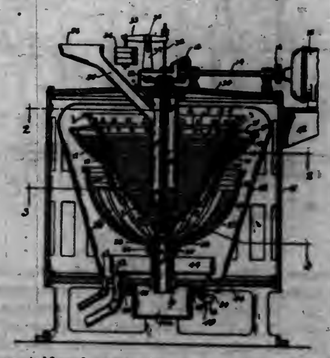
1. In a lock, a sliding lock bolt, a locking mechanism therefor, including a plurality of rotatable tumblers, a locking bar interposed between and engaged with said bolt and tumblers to retain said bolt in locking position, said bar being movable to release said bolt only when said tumblers are rotated to predetermined positions, and a plurality of locking pins also controlled by said tumblers for movement into and out of the path of said bolt.

1,750,859. FIRE EXTINGUISHER. JOHN RAUS, Cleveland, Ohio, assignor, by mesne assignments, to The National Formetal Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 24, 1921. Serial No. 455,240. 3 Claims. (Cl. 220—3.)



1. As an article of manufacture an elongated acid capsule of incorrodible ductile metal having at one end an external securing flange and an integral perforable region adjacent thereto.

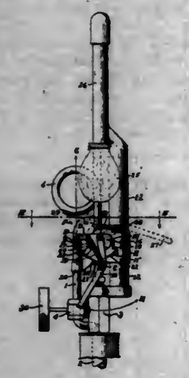
1,750,860. GOLD SEPARATOR. JACK V. RAWLINGS, Seattle, Wash., assignor to Edmond M. Beus, trustee, Soda Springs, Idaho. Filed June 8, 1929. Serial No. 369,458. 6 Claims. (Cl. 233—18.)



1. A centrifugal separator comprising an inner bowl having a flared upper section, said section having two

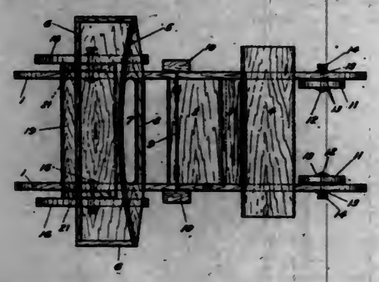
series of holes, horizontal rifles formed on the lower section, an intermediate bowl carried by the inner bowl, said inner bowl discharging through one series of holes into the intermediate bowl, discharge tubes extending downwardly from said intermediate bowl, an outer bowl receiving discharge from the tubes, and hoppers receiving the retained contents of the bowls.

1,750,861. IGNITION AND GENERATING MEANS FOR GASOLINE LAMPS. HEIM W. RESNICK, Wichita, Kans. Filed Mar. 22, 1927. Serial No. 177,338. 2 Claims. (Cl. 67—10.1.)



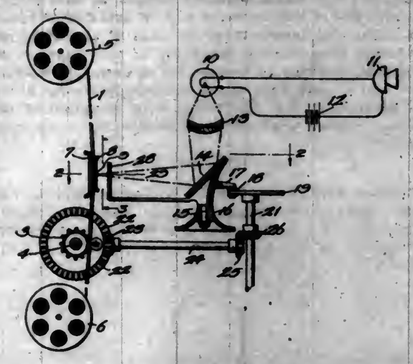
1. In combination with a gasoline lamp, having an auxiliary pipe connected with the feed pipe of the lamp below the valve, a funneled jet positioned in the outer end of the auxiliary pipe, a bracket attached to the feed pipe of the lamp, a needle carried by a disc-like member, and an arcuated knurled portion positioned on the disc, said disc being pivotally mounted on said bracket, a lever pivotally engaging with the disc-member but rockable independent of the disc, the disc and the lever being connected by a spring actuating means to open or close the jet as the lever is rocked, a spring supporting socket carried by the bracket and a flint positioned in the socket to engage with the knurled edge of the disc, by which means a spark is frictionally produced as the lever is rocked for the purpose specified.

1,750,862. CHILD'S RECIPROCATING ROCKER. ALBERT C. ROHM, Jr., Davenport, Iowa. Filed May 28, 1928. Serial No. 281,030. 8 Claims. (Cl. 272—53.)



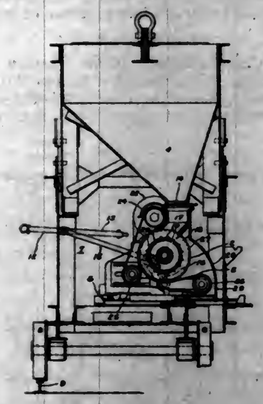
2. A rocker of the character described, comprising side members having a seat between them, rolling supporting elements for the rear ends of the side members, eccentrically mounted rocker elements pivotally mounted adjacent the forward ends of the side elements, and a foot-rest connecting the rocker elements and located forwardly of the seat.

1,750,863. RECORDING APPARATUS. ROSCOE ROYAL, Chicago, Ill. Filed Dec. 13, 1926, Serial No. 154,592. Renewed Aug. 12, 1929. 10 Claims. (Cl. 179—100.3.)



4. The combination with a source of light; of operable means for varying the light; a structure receiving light from said source and contracting the light passed thereto into a beam tapering from such structure; a reflector in the path of said beam for deflecting the beam; a sensitised member impinged upon by said light beam where this beam is contracted; and mechanism effecting movement of the reflector to move the portion of the beam that impinges upon the sensitised member and effecting continuous travel of the sensitised member while the beam of light is impinging upon the sensitised member.

1,750,864. METHOD AND APPARATUS FOR PROJECTING LOOSE MATERIAL. BJARNE H. SCHIELDROP, Pittsburgh, Pa., assignor to Blaw Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Sept. 29, 1927. Serial No. 222,740. 8 Claims. (Cl. 72—130.)

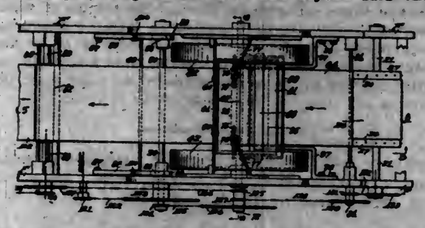


1. In a projecting device, a pulley having a circumferential groove therein and frictional means comprising corrugations disposed at the bottom of the groove.

1,750,865. CANDY-COATING MACHINE. OSCAR E. SEGAIN, Springfield, Mass., assignor, by mesne assignments, to Merrow Brothers, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 10, 1928. Serial No. 268,987. 1 Claim. (Cl. 91—3.)

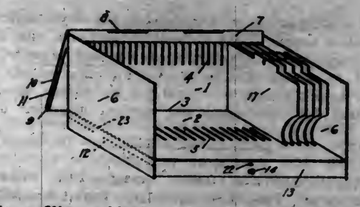
A coating machine comprising side frame members, a storage tank supported between said members, a flow pan, a pair of drums rotatable in vertical planes between said

members and each having a portion of its peripheral path dipping within said storage tank and a portion elevated above said flow pan, each of said drums having a rim offset toward said flow pan and overlapping the adjacent end of said pan, brackets secured to each side frame member and projecting inward over and beyond said offset



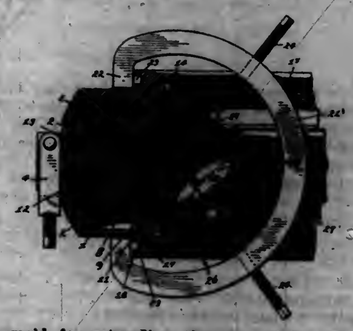
rims, an arm depending from each of said brackets and having a horizontal aperture, a separate scraper bar slidable in each of said apertures with its operative end positioned within one of said offset rims, and means to secure said bars in adjusted position in said arms, whereby the feed of coating material may be regulated.

1,750,866. FILING CABINET. JOHN SKOWRON, Los Angeles, Calif. Filed Apr. 4, 1927. Serial No. 180,967. 5 Claims. (Cl. 129—16.)



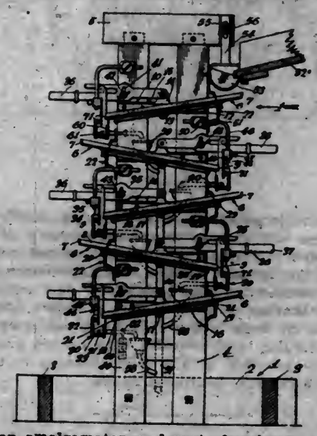
1. In a filing cabinet, a slotted device having a vertical and horizontal wall, said slotted device being provided in the upper portion of its vertical wall with a series of slots and in the intermediate portion of its horizontal wall with a row of corresponding slots, a set of partitions adapted to be positioned vertically on said slotted device, and the rear and lower edges of said partitions being provided with projecting portions that are adapted to enter the slots in the vertical and horizontal wall of said slotted device.

1,750,867. ADJUSTABLE MOLD FOR RETREADING TIRES. FRANK L. SMITH, JACOB S. CAUFIELD, and CHARLES J. PETERSON, Sacramento, Calif., assignors, by mesne assignments, to Super Mold Corporation, Reno, Nev., a Corporation of Nevada. Filed Dec. 8, 1926. Serial No. 153,272. 6 Claims. (Cl. 18—18.)



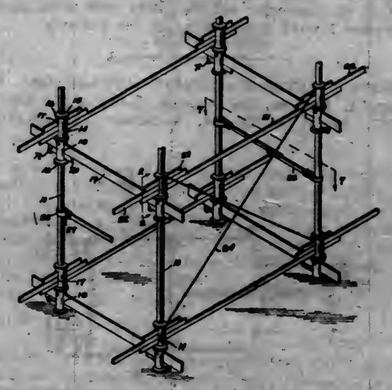
1. A mold for retreading tires comprising a pair of matching mold sections having steam chambers formed therein; a sectional matrix fitted into the mold sections and arranged to receive a tire for retreading; annular ribs formed upon the outer sides of the mold sections; a plurality of yokes engaging the ribs; and means carried by the yokes and engaging the side walls of the tire for expanding the tread of the tire against the inner surface of the matrix.

1,750,868. AMALGAMATOR. JAMES J. TINKER, San Diego, Calif. Filed Jan. 19, 1926, Serial No. 82,195. Renewed Jan. 15, 1930. 4 Claims. (Cl. 209—58.)



1. In an amalgamator, end posts forming a supporting structure, a pair of plate brackets each substantially channel shaped and having a depression in the lower flange forming a bearing, a plate supported in a frame, said frame having a central longitudinal bar pivotally mounted in the said bearings, the said frame having side angle bars with connecting rods between the side bars and the central bar, one of the side bars being extended beyond the plate over the outside of one of the posts, and means on the post to engage the extension of the side bar and adjust the inclination of the plate.

1,750,869. SCAFFOLD CONSTRUCTION. CHRISTOPHER R. URIS, Los Angeles, Calif. Filed Sept. 26, 1928, Serial No. 308,463. 9 Claims. (Cl. 304—2.)



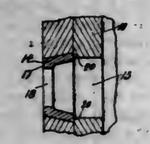
2. A scaffold construction comprising upright members, coupling members in which the ends of the upright members are receivable, horizontal members having their ends receivable in the coupling members and in the upright members, and means for causing the said members to be held together.

1,750,870. PORTABLE GARAGE LIGHT. HARRY C. VOOTH, East Haven, Conn., assignor to The Rattan Mfg. Co., New Haven, Conn., a Corporation. Filed Apr. 29, 1929. Serial No. 358,790. 3 Claims. (Cl. 240—54.)



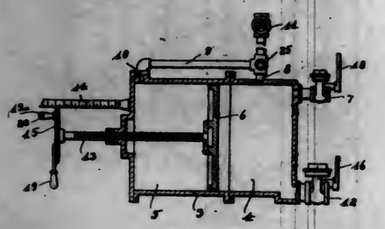
1. A portable garage light comprising a handle formed at its outer end with an annular rib having notches, a ring adapted to rest on said rib and formed with arms extending through said notches, said arms terminating in outwardly-extending fingers, a strap surrounding said arms and bearing upon said rib and fingers, means for connecting the ends of the said strap, said ring formed with an annular band provided with inward projections, and a cage provided with a collor adapted to be interlocked with the first-mentioned flange.

1,750,871. WELL SCREEN. ELIHU C. WILSON, Los Angeles, Calif. Filed May 12, 1925. Serial No. 29,663. 6 Claims. (Cl. 166—6.)



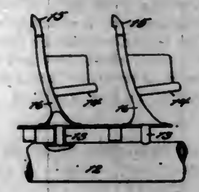
1. In a well screen embodying a double wall casing, the two walls having registering perforations, screening elements in the perforations of the outer wall, means on the outer wall adapted to prevent outward displacement of the elements, and the inner wall being adapted to prevent inward displacement of the elements.

1,750,872. WATER-MEASURING APPARATUS. WILLIAM A. BREMER, Los Angeles, Calif. Filed Nov. 21, 1927. Serial No. 234,756. 4 Claims. (Cl. 221—113.)



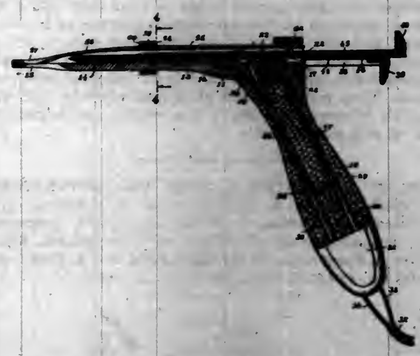
1. In a water supply and measuring apparatus, a cylinder having inlet and outlet connections at one end, a piston movable longitudinally within and dividing the cylinder into measuring and storing compartments, communicating means between said compartments, a spindle mounted in the cylinder and having operative engagement therewith whereby the spindle can be adjusted longitudinally within the cylinder, the spindle having also turnable engagement with the piston for moving the piston, the measuring compartment being on the side of the piston facing the end of the cylinder that has the inlet and outlet connections, whereby the volume of water admitted through the inlet connection into the measuring compartment comprises the measured volume to be discharged through the outlet connection, and a scale in operative relation to the spindle whereby the position of the piston is indicated on the outside of the cylinder.

1,750,873. VENTILATING SYSTEM. EVERETT S. BUCK and LEE B. METTLER, Los Angeles, Calif. Filed May 10, 1926. Serial No. 108,004. 2 Claims. (Cl. 98—39.)



2. In combination, a chair having a hollow supporting standard, a source of air communicating with said standard, a nozzle swivelably mounted upon said standard and adapted to control the horizontal direction of air flow, a valve in said nozzle to control the air supply, means in said valve for controlling the vertical direction of air flow.

1,750,874. TONSILLOTOME. ARTHUR C. CAMPBELL, Tulsa, Okla. Filed Dec. 12, 1928. Serial No. 325,523. 6 Claims. (Cl. 128—300.)

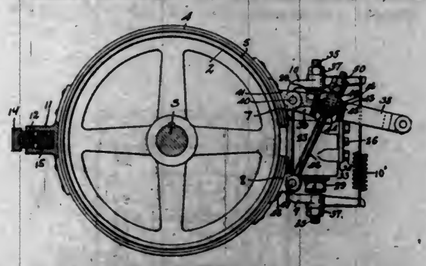


1. In a tonsillotome of the guillotine type including an apertured shank and a tonsil severing blade slidable over the apertured end of the shank; an auxiliary coagulator blade initially movable to grip the base of the tonsil and operable to direct a high frequency electrical current through the base of the tonsil for effecting coagulation of the appendages prior to the actual severance of the tonsil by the severing blade.

1,750,875. BRAKE MECHANISM. NIELS A. CHRISTENSEN, Milwaukee, Wis. Filed Mar. 22, 1924. Serial No. 701,061. 7 Claims. (Cl. 188—106.)

7. In brake mechanism of the class described, the combination of a brake drum, of a contracting type brake

engageable with said drum, a fluid-pressure-operated motor acting directly upon the ends of said brake to move it into braking engagement with said drum, manually-operated means independently connected with the ends of said brake to move it into braking engagement with said drum, and means to release said brake.

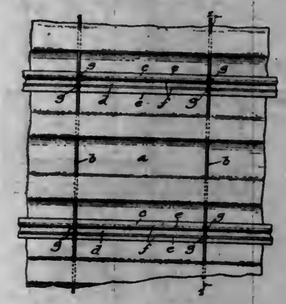


1,750,876. LOADING MACHINERY. JOHN L. CLARKSON, Nashville, Ill. Filed Jan. 19, 1927. Serial No. 161,984. 4 Claims. (Cl. 198—10.)



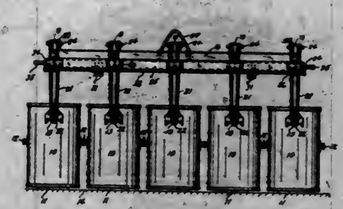
1. In a loading machine, a carriage, a rangeable shoveling element at the forward end thereof, a rangeable loading conveyor extending rearward from said carriage, reciprocable means for thrusting said shoveling element longitudinally forward under power and likewise returning it, an endless conveyor, and means automatically controlled by the direction of movement of said shoveling element for operating said conveyor intermittently and during the forward stroke of said shoveling element for conveying the collected material from said shoveling element to said loading conveyor.

1,750,877. REENFORCED BUILDING FABRIC. EDWIN D. CODDINGTON, North Milwaukee, Wis. Filed Aug. 6, 1923. Serial No. 655,917. 9 Claims. (Cl. 72—116.)



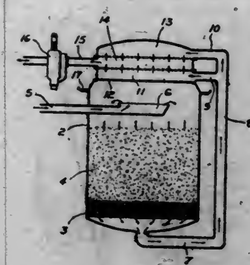
1. A reenforced building fabric comprising a flexible sheet of fibrous material, metal reenforcing wires woven at intervals through the sheet and forming undulations therein transversely to the wires, and auxiliary reenforcing and stiffening members disposed transversely to the wires and deepening the undulations in the sheet adjacent thereto, said members being secured at intervals to the wires by non-slip fastenings.

1,750,878. BARREL-HANDLING APPARATUS. JAMES R. COE, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 18, 1927. Serial No. 169,209. 8 Claims. (Cl. 294—67.)



1. In lifting tongs for carrying a plurality of barrels, two sets of spaced lifting elements extending longitudinally of the tongs and each set including a plurality of loops to engage hooks on opposite sides of a plurality of barrels in a row, and a single operating means operable from either end of the device for simultaneously swinging the two sets of elements to and from the barrels.

1,750,879. FILTER. LOUIS DE MARKUS, Chicago, Ill., and FREDERICK B. LEOPOLD, Pittsburgh, Pa.; said Leopold assignor to McKenna Brass and Manufacturing Company, Inc., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1926. Serial No. 147,436. 11 Claims. (Cl. 210—144.)

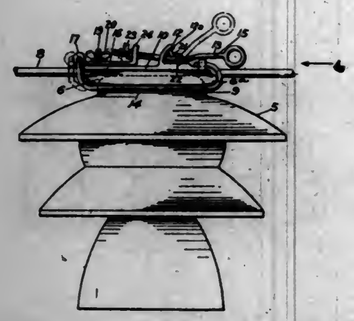


1. A self-contained filtration unit comprising separately contained non-porous filtering means and porous filtering means constituting an index to the condition of the non-porous filter means, means for passing water successively through the non-porous filter and then through the porous filter, means for reversing the water flow through the non-porous filter in order to wash the same, and means for diverting the wash water from the porous filter.

1,750,880. TIE CLAMP FOR ELECTRIC INSULATORS. ROY G. DICKINSON, Denver, Colo., assignor of one-third to Charles A. Semrad, Denver, Colo., and one-third to Henry C. Reagan, Boulder, Colo. Filed Sept. 8, 1925, Serial No. 55,084. Renewed Aug. 6, 1929. 10 Claims. (Cl. 173—313.)

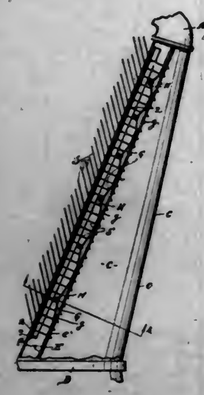
4. A tie clamp for insulators comprising a base, a sliding head thereon, laterally extending resilient clamp

members pivoted on the base and on the sliding head, and means on the base for moving the sliding head and thereby tensioning the clamp members.



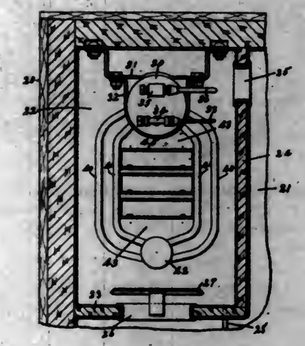
6. A tie clamp for insulators comprising a fixed member provided with means adapted to engage and position a line wire on an insulator, a relatively movable member secured to and carried by said fixed member, a clamping element attached to and connecting said members and engageable with an insulator, and means mounted on said fixed member and engageable with said movable member for locking said members in an adjusted position.

1,750,881. STRINGED MUSICAL INSTRUMENT. JOHN DOPYERA, Los Angeles, Calif. Filed Mar. 28, 1928. Serial No. 265,254. 5 Claims. (Cl. 84—264.)



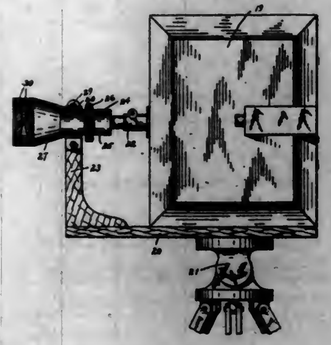
1. A harp comprising a frame including a sound box provided with an inner partition and a cover-plate spaced therefrom, said cover-plate having a slot therein and said partition having a plurality of apertures, a plurality of strings held in tension on said frame extending through the slot in said cover-plate and attached at their lower ends to said partition, means below said cover-plate for engaging and holding the strings in tension, a plurality of metallic conical diaphragms mounted on and over the openings in said partition and connected at their apices with said tensioning means while communicating the vibrations from the strings to the diaphragms.

1,750,882. REFRIGERATING APPARATUS. JOHN RALPH FEHR, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Dec. 2, 1926. Serial No. 152,263. 11 Claims. (Cl. 62—95.)



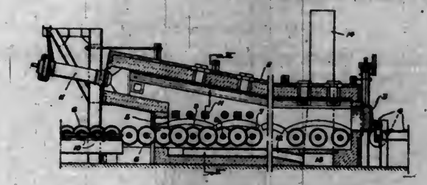
5. A cooling unit for mechanical refrigeration comprising, a plurality of headers and a plurality of ducts connecting the headers, certain ducts connected between two of said headers being spaced apart to enclose therebetween a freezing space and certain other ducts being located spaced from said freezing space.

1,750,883. APPARATUS FOR PRODUCING DISTORTED PICTURES. GEORGE WILLIAM FORD, Brighton, England, assignor to Herbert George Ponting, London, England. Filed Nov. 15, 1926, Serial No. 148,379, and in Great Britain May 31, 1926. 5 Claims. (Cl. 88—16.)



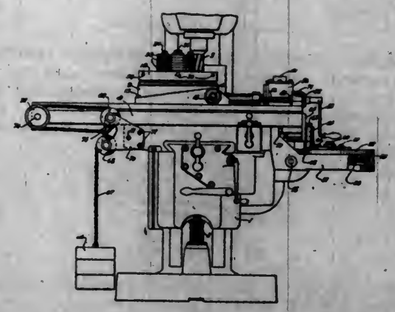
1. Means for producing distorted pictures of an object comprising the combination of a camera, a refractive distorting element situated in front of the lens thereof, and means for producing a real image of the object adjacent the said element.

1,750,884. APPARATUS FOR HEATING. EDWARD M. FREELAND, Steubenville, Ohio, and FRANK MCGOUGH, Follansbee, W. Va., assignors to Follansbee Brothers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 31, 1927. Serial No. 195,242. 8 Claims. (Cl. 263—6.)



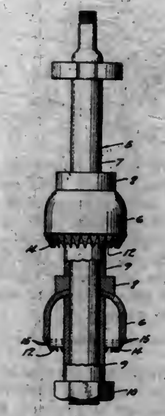
1. In a heating furnace having a heating chamber, conveying means therein, burners for supplying products of combustion to said chamber, and indirect heating means intermediate the supporting plane of said conveying means and the main furnace bottom receiving and conveying such products of combustion and serving to heat said conveying means and prevent radiation of heat downwardly from material thereon.

1,750,885. MILLING MACHINE. JOHN GOETZ, Wauwatosa, and LAWRENCE J. RADENMACHER, Milwaukee, Wis., assignors to The Kempsmith Manufacturing Co., West Allis, Wis., a Corporation of Wisconsin. Filed Feb. 6, 1926. Serial No. 86,395. 11 Claims. (Cl. 90—18.9.)



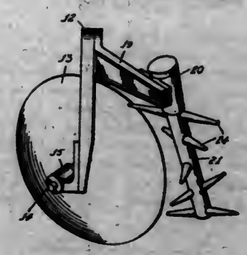
1. In a milling machine, a base, a tool supported above said base for rotation about a fixed axis, a work-holding member supported by said base for forward and backward movement with respect thereto and for rotation about an axis parallel to the tool axis, means including a master cam for controlling said movement of said member, a first shaft for effecting rotation of said member, a second shaft for operating said means, and a third shaft common to and directly connected to said first and second shafts for driving the latter, and means for driving said third shaft.

1,750,886. PACKING. PAUL H. GRANGER, Los Angeles, Calif. Filed Sept. 23, 1929. Serial No. 394,451. 3 Claims. (Cl. 74—109.)



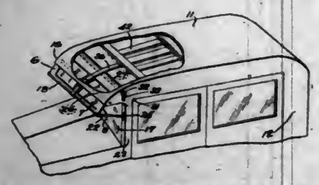
1. Packing means comprising a cup shaped member of flexible material having a wear resisting guiding means at its free edge, said means comprising a plurality of tapering elements secured to said free edge.

1,750,887. ROTARY TILLER ATTACHMENT FOR DISK PLOWS. GUY HERRING HALL, Evanston, Ill. Filed Apr. 3, 1928. Serial No. 266,929. 4 Claims. (Cl. 97—43.)



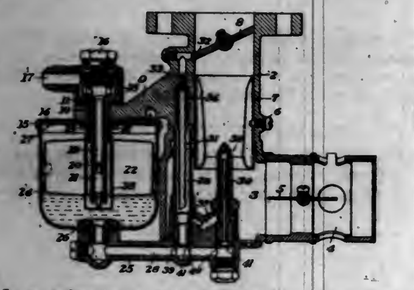
1. The combination of a plow frame, a rotatable disk carried by the plow frame having a concave working face and being presented at such angle that when being advanced it will cut a furrow slice, move it rearwardly and outwardly and perform the initial part only of the turning-over movement of the furrow slice, a rotary tiller device comprising a shaft having its upper end rotatably supported on the plow frame, a series of tiller blades fixed to the shaft and extended substantially at right angles thereto, said shaft being positioned in the rear of the disk and being extended substantially parallel with the under surface of the furrow slice as it passes from the adjacent edge of the disk with the shaft out of the path of travel of the furrow slice and the tiller blades in position to engage and penetrate the furrow slice during its rotation, completing its turning-over movement and pulverizing it and throwing it rearwardly and outwardly.

1,750,888. ADJUSTABLE CURTAIN FOR AUTOMOBILES. GEORGE HARROLD, Los Angeles, Calif. Filed Apr. 5, 1928. Serial No. 267,507. 7 Claims. (Cl. 296—95.)



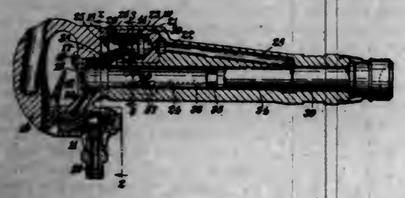
1. In combination with a vehicle having a window and a top, an adjustable curtain construction comprising a movable curtain, a resilient strip secured to and extending longitudinally of the curtain, said strip being extended beyond the inner edge of the curtain within the top, and an operating handle carried by said strip and extending through a slot in the top into the vehicle whereby the curtain may be slid to extend its outer edge through an edge of the top over said window.

1,750,889. CARBURETOR. VICTOR R. HEFTLER, Detroit, Mich., assignor to Societe du Carburateur Zenith, Lyon, France, a Corporation of France. Filed Oct. 26, 1922. Serial No. 597,032. 5 Claims. (Cl. 261—41.)



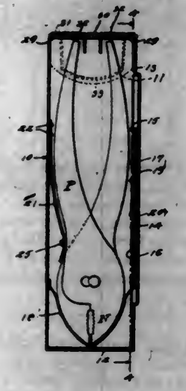
1. In a carburetor, a main body having an air passage therein forming a mixing chamber extending completely through the body in one direction, a base secured to said body and having a fuel passage therein, said base closing the through extension of said passage, a float chamber exteriorly of the mixing chamber and communicating with said fuel passage, an atmospheric well physically inside of the walls of the mixing chamber and communicating with said fuel passage, and means for delivering fuel from said well to said mixing chamber, said well being bodily removable from said base.

1,750,890. FLUID-OPERATED RECIPROCATING MACHINE TOOL. JOHN LEONARD HOLMAN and ARTHUR TREVE HOLMAN, Camborne, England, assignors to Holman Brothers Limited, Camborne, England, a British Company. Filed May 9, 1925, Serial No. 29,108, and in Great Britain Oct. 16, 1924. 9 Claims. (Cl. 121—24.)



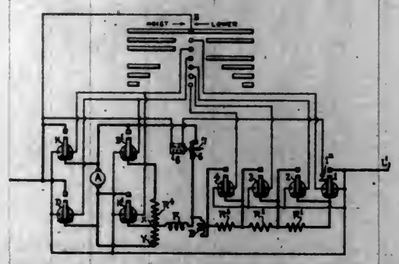
1. The combination of a valve chest formed as a tubular sleeve adapted to fit in an outer casing and having in its outer periphery at one end an annular groove whereof one wall is constituted by a flange at said end of the chest, which groove has an admission port connecting it with the interior of the chest, which chest has a recess in its periphery near the other end thereof, a passage for conveying driving fluid connecting said recess with the adjacent end face of the chest, and a port for connecting said recess with the interior of the chest, and a fluid-actuated reciprocatory valve in said chest for controlling said ports, which valve comprises a tubular shell and a core of yielding material in said shell.

1,750,891. PLIER CASE. ERICH F. JUNGEMANN, Wolsey, S. Dak. Filed Apr. 4, 1929. Serial No. 352,514. 6 Claims. (Cl. 24—3.)



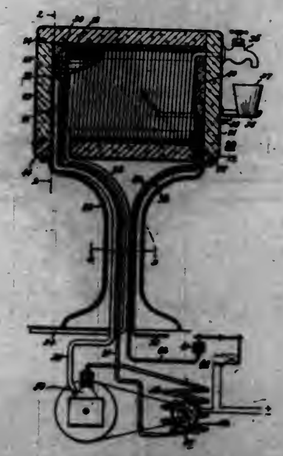
1. In a plier case and in combination, a tube having an open upper end permitting insertion of a pair of the pliers therein, a spring pressed support for the pliers normally maintaining the pliers partially projected from the case, and releasable means for retaining the pliers in a lowered position within the case against the action of the springs of said support.

1,750,892. CONTROLLER FOR ELECTRIC MOTORS. WALTER C. KENNEDY, Llanerch, Upper Darby, Pa., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 15, 1926. Serial No. 148,489. 8 Claims. (Cl. 172—179.)



1. In combination, a series motor, a resistance and means to connect said motor to a supply source with said resistance in parallel with its armature and with the motor field connected directly to the supply source through a portion of said resistance and means to establish for said motor when disconnected from its supply source a dynamic braking circuit inclusive of said portion of said resistance.

1,750,893. LIQUID COOLER. JESSE G. KING, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Feb. 21, 1927. Serial No. 169,745. 9 Claims. (Cl. 62—141.)



1. A liquid cooler comprising, in combination, a cylindrical refrigerant chamber having walls of metal of good thermal conductivity, and a coil of flattened pipe of metal of good thermal conductivity wound on edge and having its turns metallically joined to the chamber and the flat sides of the turns of the coils abutting one another.

1,750,894. SHEET-METAL SIGN. ANDREW A. KRAMER, Kansas City, Mo. Filed Feb. 28, 1927. Serial No. 171,614. 12 Claims. (Cl. 40—148.)



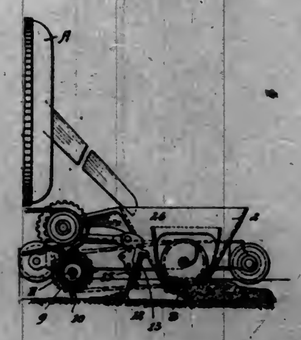
1. A sign of the character described, comprising a panel member and a frame comprising a panel carrying portion and a supporting portion, said supporting portion comprising vertical portions, portions extending outwardly therefrom in opposite directions and portions extending substantially transversely of the plane of the said panel member on opposite sides thereof and spaced from said vertical portions to provide foot portions having ends spaced from all other portions of said frame.

1,750,895. AUTOMATIC CIRCUIT BREAKER. WILHELM LEYHAUSEN, Nuremberg, Germany. Filed Mar. 30, 1928, Serial No. 266,089, and in Germany Aug. 14, 1926. 6 Claims. (Cl. 200—111.)

1. An automatic circuit breaker of the screw-plug type comprising a casing having a spark space, a magnet coil having one of its sides adjacent to said space, circuit closing contacts at the side of the coil adjacent to the spark space, releasing mechanism at the side of the coil opposite that first-named, and connecting means between said releasing mechanism and the switch contacts arranged to embrace said magnet-coil and to effect movement of said contacts on the side of the magnet-coil which faces the spark-space.

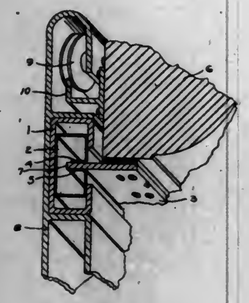


1,750,896. SUBGRADE PLANER AND CONCRETE-DISTRIBUTING MACHINE. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Jan. 27, 1928. Serial No. 249,929. 6 Claims. (Cl. 94—46.)



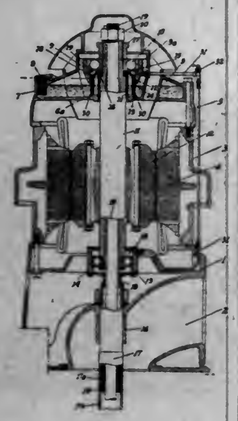
1. In combination, a concrete mixing machine, and a concrete distributing and earth-working unit associated therewith, comprising a distributing device arranged to deposit the concrete upon the sub-grade, earth leveling means arranged in advance of said distributing device, with common supporting means for the distributing device and the earth leveling means, and means common to the distributing device and earth working unit for driving the said instrumentalities and moving the machine over the subgrade.

1,750,897. ADJUSTABLE WEATHER SHIELD AND ANTIRATTLING DEVICE. GEORGE C. LOVY, Springfield, Ill., assignor of one-fourth to William F. Canavan, Decatur, Ill., and one-fourth to Charles J. Maier, Decatur, Ill. Filed Dec. 10, 1928. Serial No. 324,953. 4 Claims. (Cl. 20—16.)



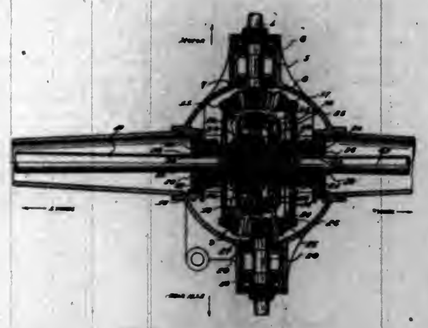
1. An adjustable weather shield and anti-rattling device comprising in combination an inner and an outer channel and a weather strip slidably engaged by the inner channel; said inner channel slidably and springily engaged by and within said outer channel.

1,750,898. AUTOMATIC OILING SYSTEM FOR DEEP-WELL TURBINE PUMPS. ROY M. MAGNUSON, Stockton, Calif., assignor to Sterling Pump Works, Stockton, Calif., a Corporation. Filed Feb. 14, 1927. Serial No. 168,060. 4 Claims. (Cl. 308—170.)



1. In a vertical pump head, a rotatable shaft, a bearing therefor, a support for the bearing, a sleeve depending from the support, said sleeve being spaced from the shaft, an oil reservoir into which the sleeve depends and arranged to permit the oil to enter the space between the shaft and sleeve, a cylinder fixed on the shaft and spaced from the sleeve, a flange all about the cylinder at its upper end having a free running fit with the sleeve and a boss projecting from the outside of the cylinder and extending from the bottom of the flange downwardly and having a running fit with the sleeve, one side edge of the boss being disposed at an angle to a vertical plane.

1,750,899. DRIVE AXLE. ARTHUR I. MARCUM, Oakland, Calif., assignor to Emory Winship, Macon, Ga. Filed June 7, 1926. Serial No. 114,251. 10 Claims. (Cl. 180—22.)



1. A tandem axle drive including a drive shaft, an intermediate shaft, axle sections, a differential operatively associated with said axle sections, a second differential driven by said drive shaft, and operatively associated with said intermediate shaft, and said first named differential, said differentials being arranged in nested relation.

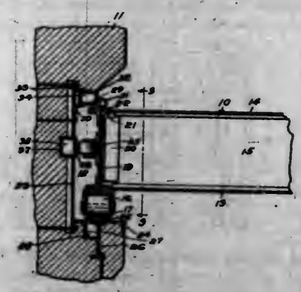
1,750,900. ELECTROACOUSTIC DEVICE. JOHN PRESTON MINTON, White Plains, and ABRAHAM S. RINGEL, Brooklyn, N. Y., assignors to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 15, 1924. Serial No. 732,153. 11 Claims. (Cl. 179—109.)



1. In combination, a plurality of intersecting sound amplifying horns each substantially resonant to a different portion of the audible range of frequencies, and an electro-acoustic device attached to each of said horns.

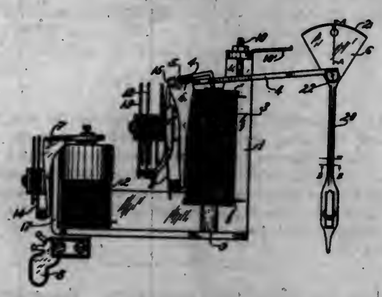
1,750,901. WATER-REGULATING SLUICE GATE. FRED NEWELL, Montreal, Quebec, Canada. Filed Apr. 7, 1928, Serial No. 268,290, and in Canada May 30, 1927. 1 Claim. (Cl. 61—28.)

Guide means for the end of a sluice gate, comprising a channel iron, rollers carried by the gate and co-acting with the channel iron, an I beam rigidly secured to the outer side of the channel iron, an iron rigidly secured to one side of the I beam and rigidly connected with the channel iron, these parts being assembled to produce a tube for receiving a heating medium, and an angle iron arranged



upon the opposite side of the I beam and rigidly connected with the I beam and channel iron to provide a tube for receiving a heating medium.

1,750,902. AUTOMATIC SWITCH. HERBERT F. OBERGFELL, River Forest, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 5, 1925. Serial No. 13,046. 7 Claims. (Cl. 200—103.)



1. In a telephone system, a relay having a pair of armatures, a core for said relay, both of said armatures rotatable about an axis which lies in the same plane as the faces of the armatures which engage the core of the magnet, and a bracket acting as a bearing for both armatures upon which the two are mounted as a unit and which unit is then attached to the relay.

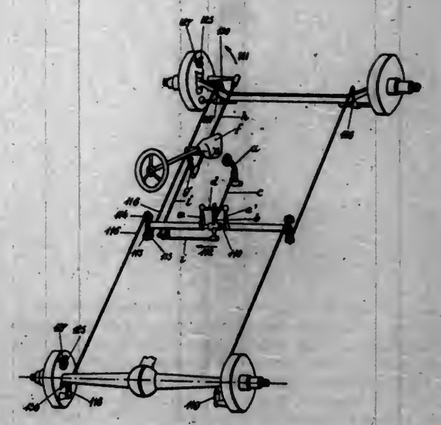
1,750,903. RESINOUS CONDENSATION PRODUCT FROM LIGNIN AND FURFURAL. MAX PHILLIPS, Evansville, Wis. Filed Apr. 6, 1929. Serial No. 353,244. 4 Claims. (Cl. 260—2.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

2. A process of preparing new and useful resinous condensation products, consisting in heating furfural and lignin in the presence of hydrochloric acid.

4. As new articles of manufacture, condensation products from furfural and lignin.

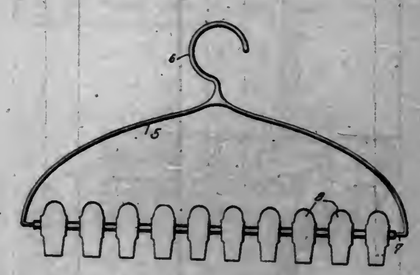
1,750,904. BRAKE-OPERATING DEVICE FOR MOTOR VEHICLES. LOUIS ROUANET, Ivry-Port, France, assignor to Compagnie d'Applications Mecaniques, Ivry-Port, France, a French Company. Filed Mar. 9, 1925, Serial No. 14,255, and in France Mar. 21, 1924. 3 Claims. (Cl. 188—194.)

1. A brake device arrangement comprising a main brake operating member, a primary member connected therewith and operated thereby, a shaft and said primary member pivoted on said shaft, an intermediate member, two secondary brake operating members disposed on either side of the primary member and also pivoted on the shaft,



and means controlled by the steering mechanism and adapted to modify the relative positions of the primary and secondary members along the shaft on either side of the position of the said members corresponding to the straight running of the vehicle.

1,750,905. STOCKING HANGER. HELEN SCHILPP, Eustis, Nebr. Filed Apr. 1, 1927. Serial No. 180,351. 1 Claim. (Cl. 223—62.)

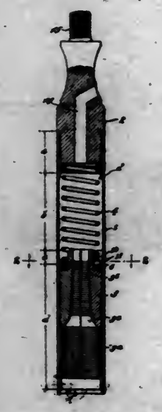


An article of the class described comprising a supporting member having a horizontally disposed rod, a plurality of garment clamping members mounted on said rod, and a plurality of spacing sleeves arranged on the rod with one of the sleeves disposed between each of said clamping members whereby to maintain the same in spaced relation upon said rod.

1,750,906. SLIP SOCKET. ERNEST J. SHAFFER, Tulsa, Okla. Filed Nov. 29, 1920. Serial No. 426,974. 3 Claims. (Cl. 294—102.)

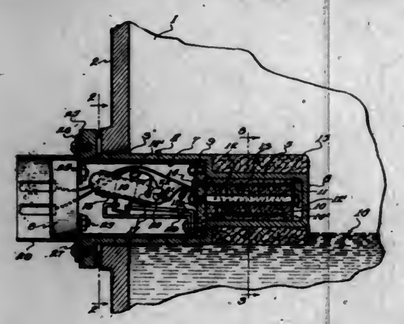
1. A slip socket designed to operate within well tubing of a given diameter, the same comprising a barrel of substantially the maximum diameter that will operate within said tubing, said barrel having a downwardly convergent frusto-conical inner surface providing a "choke", means at the upper end of the barrel to permit the same to be lowered into a well, and a set of slips yieldingly sustained in contracted condition within the "choke" of the barrel,

and having a taper corresponding substantially to that of the inner surface of the barrel, the upper portion of the barrel having a cylindrical inner surface to permit the



slips to recede into the same, and the outer surface of each slip being so shaped as to bear only adjacent its edges upon the frusto-conical surface of the barrel when the slips are in contracted condition.

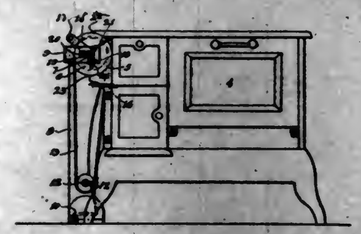
1,750,907. ELECTRICALLY-HEATED RADIATOR. JOHN F. SKOLD, Chicago, Ill. Filed Jan. 16, 1929. Serial No. 332,944. 4 Claims. (Cl. 219—38.)



2. In an electric radiator, a tubular housing extending into the interior thereof, comprising an end portion of reducing diameter, a wick on said end portion for absorbing liquid and retaining the same in close proximity to the outer surface of said housing, and a heating unit insertable in said housing comprising a heating element and a thermostatic switch adapted to be assembled in and removed from said housing without admitting air into said radiator.

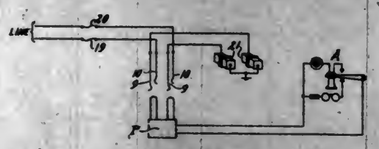
1,750,908. DOMESTIC CONTINUOUS IRONING DEVICE. JOSEPH SNIDER, Vancouver, British Columbia, Canada. Filed Apr. 29, 1929, Serial No. 358,927, and in Canada Apr. 2, 1929. 2 Claims. (Cl. 68—9.)

1. In combination with a domestic cooking range, an external smooth-surfaced arcuate concavity integral with the fire-box side of said range and adapted to correspond with the surface of a cylindrical member extending horizontally across the end of said range, a cylindrical roller member adapted to be revolvable in said arcuate concavity, a framework positioned adjacent the end of said



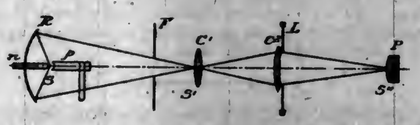
range and adapted to pivotally support said roller whereby the latter may be swung away from contact with said concavity or drawn into contact therewith, means for suitably revolving said roller.

1,750,909. PROTECTIVE DEVICE. WILLARD J. STANTON, Chicago, Ill., assignor, by mesne assignments, to American Electric Company, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 9, 1928. Serial No. 268,470. 3 Claims. (Cl. 179—78.)



1. In a telephone system, a jack having tip and ring contacts, lightning arresters connected to said tip contacts, line conductors connected to said ring contacts, and a plug to which is connected talking instrumentalities, said plug upon insertion in said jack first making contact with said tip contacts to connect said instrumentalities to said arresters before connecting the same to said line conductors.

1,750,910. PROJECTING APPARATUS. SANDER STARK, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 14, 1925. Serial No. 15,448. 4 Claims. (Cl. 88—24.)

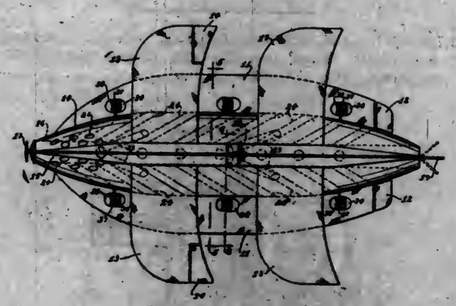


1. In a projection apparatus, the combination with a light source embodying a reflecting arc forming a convergent light pencil having a homogeneous portion, and a condenser arranged in the focal point thereof to magnify the homogeneous portion of the light pencil, of a second condenser so located with respect to the first as to receive the image of said homogeneous portion as projected by said first condenser, a lantern slide holder arranged closely adjacent to the plane of the second condenser, and a projector lens in which the image formed by the second condenser is imaged.

1,750,911. AIRCRAFT. JAMES TANTILLO, Glendale, Calif., assignor of one-half to Florence E. Gaines, Los Angeles, Calif. Filed Nov. 3, 1928. Serial No. 316,889. 5 Claims. (Cl. 244—18.)

1. In an aircraft, a substantially cylindrical body tapered at both ends, a tunnel extending axially through said

body, means for forcing air under pressure through said tunnel, longitudinally disposed stabilizing planes projecting laterally from the sides of said body, branch tubes leading from the tunnel outwardly and rearwardly and discharging at the sides of the body beneath the stabilizing



planes, wings projecting laterally from the sides of the body above the lateral stabilizers, and branch tubes leading from the tunnel upwardly and outwardly and discharging at the sides of the body beneath the forward portions of said wings.

1,750,912. CRAYON AND ERASER HOLDER. BENJAMIN TOWNE, New York, N. Y. Filed Mar. 5, 1927. Serial No. 173,140. 1 Claim. (Cl. 120—13.)



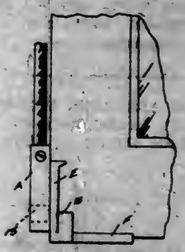
A chalk holder comprising a tubular member of uniform diameter and open at both ends, the said member being formed with a longitudinally extending slot having a branch at one end extending in the direction of the circumference of the member, which member is adapted to have a chalk frictionally fitted into one end thereof and movable therein to project at one end beyond that end of the member remote from the branch of the slot, a stem of cylindrical form fitted slidably and rotatably in the said tubular member and adapted to engage at its inner end against the inner end of the chalk and projecting at its other end beyond the other end of the tubular member, and a stud upon the stem movable in said slot and permitting of adjustment of the stem in the tubular member, when the stud is in the straight portion of the slot, to effect corresponding adjustment of the chalk to project at its first mentioned end beyond the said tubular member, the said stud being engageable in the branch of the slot whereby to hold the said stem against sliding movement in the slot and permit retractive movement of the chalk into the said tubular member.

1,750,913. GLASS CUTTER. ADOLF VOLLM, Somerville, Mass. Filed Feb. 18, 1929. Serial No. 341,007. 3 Claims. (Cl. 49—52.)



1. An improvement in a glass cutter of the type comprising a shank of rigid construction throughout its length adapted to be held in substantially vertical position between the user's thumb and second finger having glass scoring means at its lower end, a flattened fore-finger engaging portion near said lower end disposed in a plane transverse to the line on which the cutter is moved when scoring the glass, and a notch to receive an edge of the glass for breaking the latter along a line scored by said scoring means, the notch and scoring means being in fixed invariable relation; said improvement consisting in forming said notch in an edge of said fore-finger-engaging portion, whereby it assists in obtaining an anti-slipping grip thereon and opens laterally for engagement with the glass after the scoring operation by simply shifting the shank laterally and downwardly without the necessity of turning said shank with the fingers.

1,750,914. PIVOTED WINDOW. HENRY F. A. WACHTER, Peru, Ill. Filed Sept. 8, 1928. Serial No. 304,791. 1 Claim. (Cl. 20—43.)



A cord connecting fixture for sliding and swinging sash, comprising an angular metal body to fit the corner of the sash and having a horizontal arm to extend under the bottom edge of the sash and a vertical arm to extend beside the side edge of the sash, and a pivot pin projecting from the vertical arm, the rear edge of the body being curved to permit the sash to swing on the pivot, and the front edge squared to prevent complete rotation of the sash.

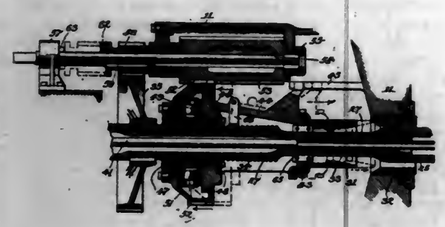
1,750,915. SPRING COVER. CHARLES B. WOODWORTH, Binghamton, N. Y. Filed Oct. 6, 1924. Serial No. 741,808. 2 Claims. (Cl. 267—37.)



1. A spring cover comprising an outer casing of impervious material and a pad made of absorbent material,

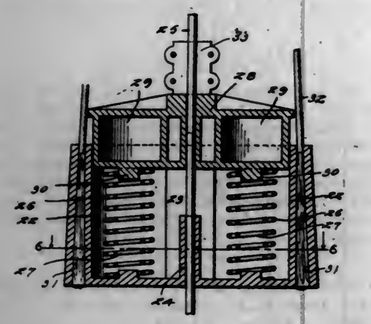
one longitudinal edge of the casing folding over the contiguous longitudinal edge of the pad and one end of the casing folding over and secured to the corresponding end of the pad, the other longitudinal edge of the pad and the other end of the pad terminating short of the corresponding edge and end of the casing and being unsecured thereto with the end of the casing prolonged beyond the end of the casing prolonged beyond the end of the pad and foldable on itself to fit springs of different lengths, securing means extending through the contiguous longitudinal and end folds for securing the outer casing and pad together, said securing means along the longitudinal edge terminating in lacing hooks, a cooperating row of lacing hooks mounted on the other longitudinal side of the outer casing and spaced from the edge thereof and lacing means engaging the rows of hooks for drawing the opposing edges of the cover together in overlapping position.

1,750,916. SCREW PRESS. FREDERICK V. ANDERSON and RAYMOND T. ANDERSON, Cleveland, Ohio, assignors to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 17, 1928. Serial No. 326,605. 8 Claims. (Cl. 100—48.)



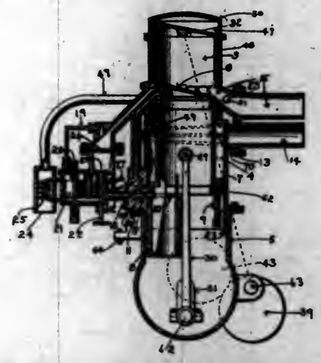
1. In a screw press, the combination of a press housing; a rotary shaft mounted therein; screw pressing means removably mounted on said shaft; a hollow extension threaded to the end of said shaft and serving to lock said screw pressing means thereon; an annular choke encircling said extension; and means for passing cooling fluid through said extension.

1,750,917. SHOCK ABSORBER FOR OIL-WELL PUMP RODS. FRANK C. BAKER, McCamey, Tex. Filed Oct. 5, 1928. Serial No. 310,633. 1 Claim. (Cl. 267—70.)



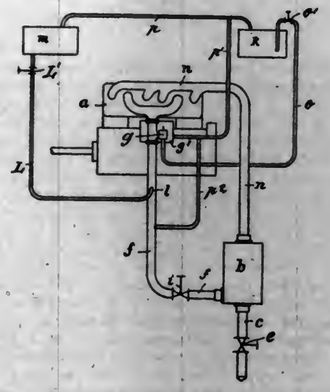
A shock absorber for an oil well pump rod comprising a lubricant containing shell having its upper end open and having an upwardly extending hollow boss on its bottom wall for maintaining the lubricant at a predetermined level and for receiving a polish rod therethrough, a follower block in the upper open end of the shell and having a downwardly extending hollow boss on its lower end, concentric coil springs disposed within the shell, the inner of the springs receiving the said bosses in its opposite ends, the shell having longitudinal tapering bores in its opposite sides, and a cable in the form of a bail disposed above the shell and having its ends wedgingly secured within said longitudinal tapered bores.

1,750,918. COMBUSTION ENGINE. JOHN BARLETTA, Galt, Calif. Filed Aug. 27, 1923. Serial No. 659,605. 9 Claims. (Cl. 123—67.)



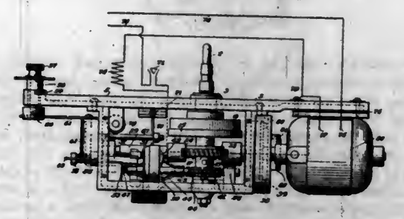
1. A combustion engine having a cylinder with a large bore and a small bore, an air tight crankcase having means to admit air into the crankcase and enclosing the opposite end of the cylinders, a piston having a large diameter and a small diameter fitted in said cylinders, a projecting slide with one port opening extending from a portion of the large piston, a spring to maintain the projecting slide in close contact with the cylinder, arranged by the reciprocating of the piston to open and close the passageways one at a time, opening the upper passageway first, leading from the large to the small cylinder, then the lower one second, leading from large to small cylinder, through the carburetor, and means to regulate the amount of air passing through each passageway.

1,750,919. SUPERCHARGING METHOD FOR INTERNAL-COMBUSTION ENGINES. GABRIEL BECKER, Charlottenburg, Germany. Filed Aug. 28, 1928, Serial No. 302,577, and in Germany June 15, 1928. 4 Claims. (Cl. 123—119.)



1. The method of supercharging internal combustion engines which comprises returning a portion of the exhaust gases from the engine to the combustion chamber under pressure derived directly from the exhaust pressure, and introducing fuel and oxygen under pressure into the returning exhaust gases.

1,750,920. MOTOR. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Original application filed Sept. 29, 1921, Serial No. 504,097. Divided and this application filed Aug. 2, 1926. Serial No. 126,404. 18 Claims. (Cl. 172—36.)



1. The combination with an electric motor having a driving shaft of a driven shaft, means actuable when the torque of said driven shaft rises beyond a predetermined point to decrease the power transmitted to said driven shaft, said means permitting said motor to rotate said driven shaft when the torque on said driven shaft falls below said predetermined point, an additional shaft and a resilient connection between said driven shaft and said additional shaft for compensating for variations of speed of said driven shaft whereby said additional shaft is rotated at a uniform speed by said motor.

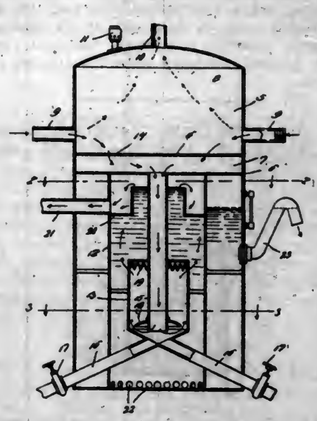
1,750,921. ADJUSTABLE DOOR JAMB. WILLIAM P. BRIGHT, Bethlehem, Pa. Filed Nov. 24, 1928. Serial No. 321,667. 1 Claim. (Cl. 20—12.)



A door frame having at the striking side, a stile provided with a groove, a jamb slidably seated in said groove, screws arranged at intervals along said jamb extending from the front, depth-wise through said jamb and threadedly engaging the bottom wall of said groove, stops on said screws behind said jamb for pushing the latter outward when said screws are backed, and springs on certain of said screws between said jamb and the bottom wall of said groove for taking up looseness between said jamb and the heads and stops of said screws.

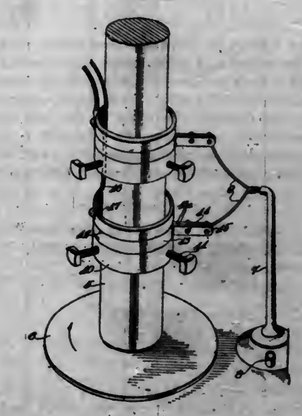
1,750,922. SEPARATING DEVICE. GEORGE G. CHEAKAS and JOHN HENRY MARTIN, Wichita Falls, Tex., assignors of one-third to R. R. Fisk, Wichita Falls, Tex. Filed Apr. 17, 1928. Serial No. 270,714. 1 Claim. (Cl. 210—61.)

In a separator of the class described, a tank, a horizontal partition therein dividing the same into upper and lower chambers, a secondary tank arranged within the lower chamber, a trap chamber arranged within the intermediate portion of the secondary chamber and being spaced from the wall thereof, a pipe extending downwardly through the secondary tank, the lower end of said pipe extending into the trap chamber, the upper end of said pipe having communication with the upper chamber, oil inlet pipes having communication with the upper chamber, sediment drain pipes extending downwardly in diverging relation from the bottom of the trap chamber through the secondary



and main tanks, the upper portion of the trap chamber being provided with a discharge opening to permit oil and water to flow into the secondary tank, a trough arranged within the upper portion of the secondary tank and surrounding said vertical pipe for receiving the oil only that collects in the upper portion of the secondary tank, an oil take off pipe leading from the trough through the tanks, the lower end of the secondary tank having water discharge passages, and a water take off pipe extending from the main tank.

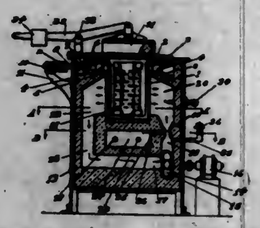
1,750,923. TREE-LIGHTING FIXTURE. MICHAEL J. COURTNEY, Chicago, Ill. Filed Feb. 24, 1927. Serial No. 170,685. 1 Claim. (Cl. 173—324.)



A device for supplying electric current to the lighting system of a Christmas tree having a rotatable supporting base, comprising a standard, current supply wires extending from the end of said standard, a pair of separate rings

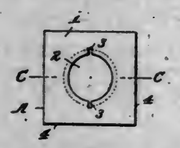
adapted to enclose the tree trunk and having clamping means adapted to locate the same at spaced points on the tree trunk, the latter serving to insulate the rings from one another, each of said rings having an exterior surface groove, a strap rotatably carried in each of said grooves and having laterally extending free ends, means including a binding post for maintaining contiguous the free ends of each strap, said current carrying wires being connected to said respective binding posts, means carried by each ring for the attachment of one line of the Christmas tree lighting system or circuit, said standard serving through said current carrying wires to hold said straps against rotation but being movable to various positions circumferentially of, toward and away from the tree as occasion may require.

1,750,924. HEAT-TREATING MACHINE. WILLIAM A. DARRAH, Chicago, Ill. Filed June 4, 1927. Serial No. 196,584. 12 Claims. (Cl. 263—2.)



10. In a heating machine a gas moving mechanism having a discharge portion of varying cross section to form a venturi, a combustion chamber and a connection between said combustion chamber and the reduced pressure portion of said venturi, and an exhaust outlet connected to the discharge portion of said gas moving mechanism.

1,750,925. LOCK NUT. PAUL W. DIETER, New York, N. Y. Filed Feb. 1, 1927. Serial No. 165,133. 1 Claim. (Cl. 151—21.)



A lock nut having a threaded bore therethrough, said nut further having a pair of diametrically opposite grooves extending the length of the nut, said grooves opening into said bore and being of a width and depth approximating the depth of the threads, the sides of the nut being compressed transversely to the grooves to make a portion at least of the bore slightly elliptical in form and the threads of said portion substantially continuous circumferentially.

1,750,926. LOCK NUT. PAUL W. DIETER, New York, N. Y. Filed Apr. 19, 1927. Serial No. 184,934. 1 Claim. (Cl. 151—21.)



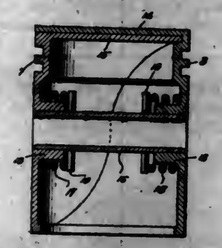
A nut provided with a threaded bore and diametrically opposed grooves opening through the outer end of said nut and into said bore, the outer end of said nut at one side only of said grooves being compressed axially on a line with said grooves to provide a definitely stepped offset relation between the portions of the threads at opposite sides of the nut.

1,750,927. FIRE-HOSE CONNECTER HEAD. CONRAD J. DIEM, Baltimore, Md., assignor to American Brass & Fire Equipment Corporation, Baltimore, Md., a Corporation of Maryland. Filed Feb. 16, 1928. Serial No. 254,780. 1 Claim. (Cl. 137—13.)



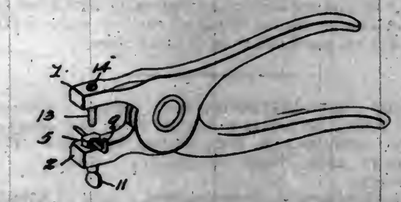
A connecter head of the character described comprising a hollow casing having a cylindrical valve chamber and having three ports, means whereby one port may be connected with a fire plug outlet, means whereby another port may be connected with a pumper suction line, and a Y extension having a passage connected with the third port to communicate with said chamber, a passage adapted for connection with a distributing hose line, and a passage adapted for connection with a pressure line from a pumper, a flap valve in said extension automatically operable by water pressure for closing the passage from the chamber into the extension or the passage from the pressure line, and a rotary valve in said chamber for closing any one of said three ports as desired leaving the other two in communication.

1,750,928. EXPANDING PISTON. GEORGE W. GALLOWAY, Santa Ana, Calif. Filed Apr. 25, 1929. Serial No. 357,994. 3 Claims. (Cl. 74—108.)



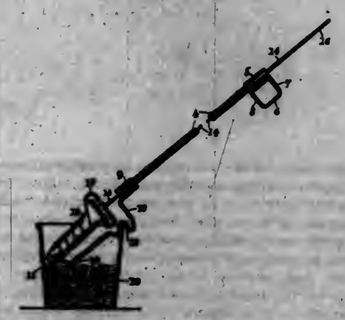
1. A piston composed of a pair of complemental sections, each of said sections comprising a head portion and a skirt portion having their adjacent edges disposed in abutting relation, said adjacent edges being irregular in outline, a bearing formed on each of said skirt sections and adapted for alignment with each other, a wrist pin extending through the aligned bearings, a coiled spring on each of said bearings and keyed on the wrist pin against which one end of each spring is adapted to impinge.

1,750,929. GAUGE FOR PUNCHES. LESTER GRISWOLD, Colorado Springs, Colo. Filed Jan. 14, 1928, Serial No. 246,769. Renewed Nov. 26, 1929. 1 Claim. (Cl. 164—120.)



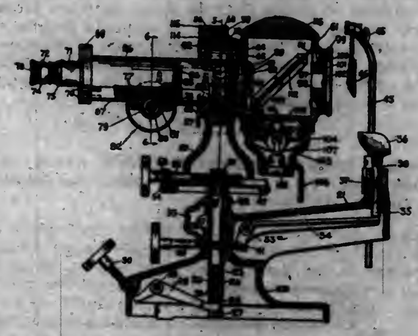
In a hand operated implement of the pivot type, the combination with a jaw having a rigid punch and a complementary jaw having a threaded socket, of a nut threaded in the socket and fashioned with an anvil-head, an L-shaped, transversely arranged gauge adjustable in an opening in the anvil and adapted to be disposed with its shorter arm in a plane parallel with the punch, and a thumb screw in the nut for retaining the gauge in adjusted position.

1,750,930. FLOOR-MOP HANDLE. OLE J. HOHN, Bellingham, Wash. Filed June 4, 1929. Serial No. 368,385. 2 Claims. (Cl. 15—120.)



1. A mop handle consisting of a hollow staff, a mop rod mounted for revolution and reciprocation in said staff projected from both ends thereof, a crank fastened on the upper end of said mop rod, an eye fastened on the lower end of said mop rod, a shank fastened on the lower end of said staff offset therefrom, an eye fastened on the lower end of said shank disposed to cooperate with said rod eye to hold a mop cloth, and a hand hold fastened on the upper end of said staff having two spaced frame members normal to said staff one of which is adjacent said upper end of the staff.

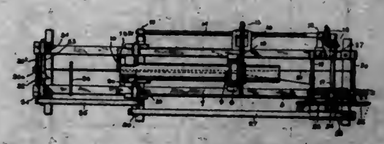
1,750,931. OPHTHALMOMETER. GUSTAV A. H. KELLNER, deceased, Rochester, N. Y., by Carl F. Lomb, executor, Rochester, N. Y., and WILBUR B. RAYTON, Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed July 7, 1927. Serial No. 204,089. 19 Claims. (Cl. 88—20.)



4. In an ophthalmometer the combination of an ocular, a collective lens, target means having a light-transmitting portion in alignment with the axis of said lens and reflecting means on a surface of said lens.

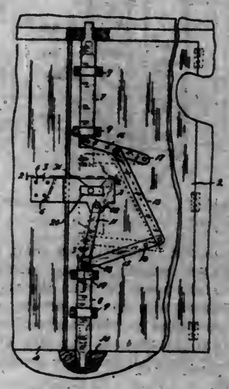
11. In an ophthalmometer, a target unit comprising a plano-convex lens, and a target plate adjacent the plano surface of said lens, said plate carrying target indicia.

1,750,932. TURNING AND HEADING MACHINE. WILLIAM KIECHNER and FRANK J. SHELDON, Sparta, Wis. Filed July 29, 1927. Serial No. 209,304. 2 Claims. (Cl. 142—1.)



1. A turning machine including a frame, a carriage movable therein, work supporting and rotating means mounted on said carriage, a main cutter mounted on said frame, and a cutter for shaping the end of the work, the cutters being so positioned and the work supporting and rotating means being so arranged that at least a portion of one end of the work shall be exposed and so that the work shall be rotated and carried by the carriage past the main cutter to shape the length of the work while the exposed portion of the end of the work is brought up against the end shaping cutter to be shaped thereby at the end of the travel of the work.

1,750,933. DOOR-LATCH MECHANISM. FRANK KOONS, Sr., Detroit, Mich. Filed May 20, 1929. Serial No. 364,348. 3 Claims. (Cl. 292—36.)

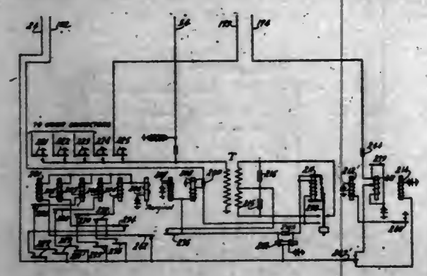


1. In a latch mechanism, the combination with a bolt pivotally mounted upon a door to swing across a vertical edge thereof, of a pair of bolts mounted upon said door to slide respectively across its upper and lower edges, a swinging link connecting one of said sliding bolts to said pivotal bolt, adapting the bolts so connected for actuation in common, and means connecting the two sliding bolts for reverse actuation in common independently of said link.

1,750,934. TELEPHONE SYSTEM. CLARENCE E. LOMAX, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Original application filed Dec. 6, 1922, Serial No. 605,149. Divided and this application filed Oct. 20, 1927. Serial No. 227,436. 5 Claims. (Cl. 179—16.)

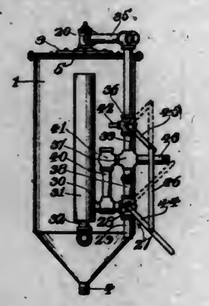
1. In a telephone system, groups of connectors, a transformer having a primary winding and a secondary winding, a start conductor, a source of current, means for connecting said current source to said start conductor, means

responsive thereto for connecting said current source intermittently to said primary winding of the transformer for inducing alternating current in the secondary winding,



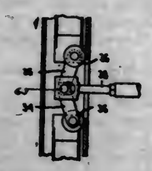
means operated responsive to the connection of said current source to said start conductor for distributing said induced current to each connector group in sequence.

1,750,935. OIL FILTER. OTTO A. MAUNULA and WILLIAM R. ROWLAND, Astoria, Oreg., assignors to Diesel Filter Co., Astoria, Oreg. Filed Feb. 19, 1929. Serial No. 341,093. 13 Claims. (Cl. 210—183.)



1. A filtering device comprising, a shell, a pair of concentrically arranged, spaced screens within the shell, a filtering medium interposed between the screens and having a portion thereof adjacent one screen of greater density than the remaining portion thereof, and means for conducting oil into the shell at one side of said filtering medium and out of the shell from the opposite side of said filtering medium.

1,750,936. BRAKE MECHANISM FOR MOTOR VEHICLES. LOUIS P. MOORES, Cleveland, Ohio, assignor to The Columbia Axle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 17, 1924. Serial No. 756,429. 11 Claims. (Cl. 188—78.)



1. In mechanism of the character described, the combination of a wheel, a brake drum secured thereto, brake shoes normally spaced from engagement with said drum and movable outwardly into braking engagement with said drum, actuating means movable at right angles to the plane of said wheel for moving said shoes into braking engagement, and anti-friction means maintaining said shoes against lateral displacement during such action.

1,750,937. SHAMPOO SHIELD. MONA MORGAN, New York, N. Y. Filed July 5, 1928. Serial No. 290,596. 4 Claims. (Cl. 4—15.9.)



1. A shampoo shield comprising an elongated one-piece resilient form-retaining member having its central portion longitudinally curved to fit the user's forehead from temple to temple, said member being bent to provide face-gripping portions extending downwardly from the ends of said curved portion, said member being provided with relatively long and narrow water-conducting means whose length follows the length of said member from end to end, said water-conducting means being carried solely by said member.

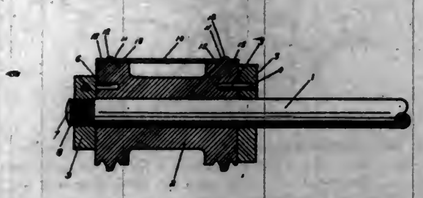
1,750,938. MANUFACTURE OF DEXTROSE. WILLIAM B. NEWKIRK, Western Springs, Ill., assignor to International Patents Development Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 6, 1924, Serial No. 730,374. Renewed June 20, 1929. 14 Claims. (Cl. 127—58.)

1. Method of making crystalline dextrose hydrate which comprises incompletely melting the solid hydrate dextrose having a purity above ninety percent so as to leave some of the substance in the solid phase, and inducing crystallization of hydrate dextrose by supersaturation without the addition of seed crystals and with the magma in motion.

1,750,939. METHOD OF MAKING DEXTROSE. WILLIAM B. NEWKIRK, Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 17, 1925. Serial No. 3,105. 22 Claims. (Cl. 127—58.)

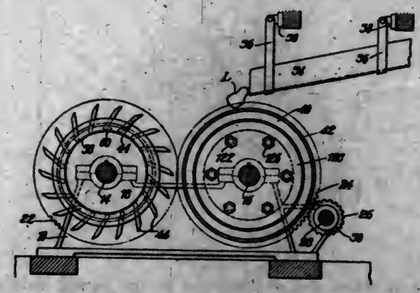
1. Method of making dextrose which comprises incompletely melting the impure solid or semi-solid dextrose of substantially one crystal type and bringing about supersaturation of the solution so formed to induce crystallization of the dextrose in solution in the form of crystals of the type of the unmelted dextrose.

1,750,940. FILM SPROCKET. FREEMAN H. OWENS, New York, N. Y. Filed July 13, 1927. Serial No. 205,443. 5 Claims. (Cl. 74—28.)



1. A film sprocket having teeth, shoulders adjacent said teeth, and recesses cut in said shoulders on each side of said teeth.

1,750,941. COAL BREAKER. FRANK PARDEE, Hazleton, Pa. Filed July 7, 1925. Serial No. 41,907. 5 Claims. (Cl. 83—52.)

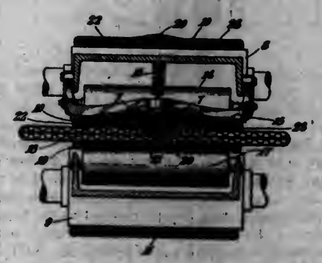


1. A coal breaker comprising a pair of co-acting rolls, one roll consisting of a member having a multiplicity of longitudinally extending seats with bar like cutter-blades detachably secured therein, the other roll consisting of a multiplicity of members arranged alongside one another with individual disc-like cutter rings clamped between them.

1,750,942. PROCESS FOR VAT COLOR DYEING. FRANK L. REMLEIN, New York, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 26, 1928. Serial No. 288,535. 2 Claims. (Cl. 8—5.)

1. In the process of vat color dyeing, the steps which comprise padding the color in a solution of reduced dyestuff and developing the color with steam produced by evaporation of the water remaining in the goods after padding.

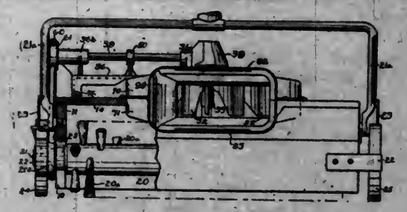
1,750,943. TAPING MACHINE FOR BOX BLANKS. LOUIS H. SCHRODER, Woodhaven, N. Y., assignor to Progressive Corrugated Paper Machinery Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 17, 1929. Serial No. 355,753. 2 Claims. (Cl. 93—56.)



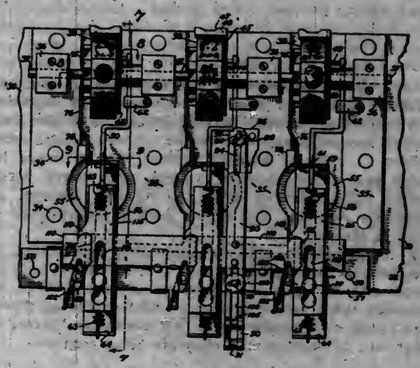
2. A box blank taping machine having means for advancing a blank to be taped, means for feeding a strip of tape to the path of travel of the blank, and a pressure applying member positioned to bear against the taped side of the blank, said member having a bluntly beveled raised portion positioned to engage the tape.

1,750,944. CARPET SWEEPER. WILLIAM E. SHEBONDY, Cleveland, Ohio. Filed Sept. 28, 1925. Serial No. 58,066. 11 Claims. (Cl. 15—8.)

1. In a sweeper of the character described, the combination of a carpet sweeper apparatus including a traction driven horizontal brush shaft, a suction mechanism surmounting the sweeper apparatus and in communication with the interior thereof and including a fan on a vertical shaft driven by a horizontal shaft through interconnecting gearing and an elastic belt drive connecting the brush shaft and horizontal shaft.

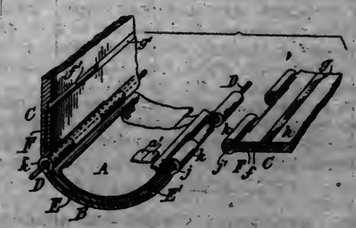


1,750,945. TARGET FOR AMUSEMENT DEVICES. WALTER A. TRATSCH, Chicago, Ill. Filed Feb. 23, 1928. Serial No. 256,352. 14 Claims. (Cl. 273—102.)



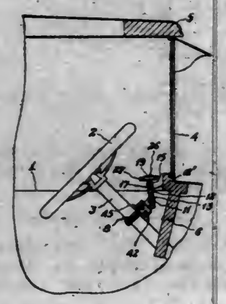
1. In an amusement device of the character described the combination of means for firing balls; a target provided with a latch toward which said balls may be fired; rotatable means for visibly indicating when the target is hit; and a slide released by said latch for actuating the indicating means.

1,750,946. LOOSE-LEAF BOOK. CLARENCE D. TRUSSELL, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a Corporation of New York. Filed Oct. 12, 1927. Serial No. 225,762. 8 Claims. (Cl. 129—24.)



1. In a cover for a loose-leaf book of the type having a back and sides hinged together, the cover back, separate hinge plates embedded in the back, each formed with hinge eyes located respectively at the opposite edges of the back, and means for uniting such separate hinge plates so that they serve as a single plate.

1,750,947. SIGNAL-LIGHT REFLECTOR AND MOUNTING THEREFOR. JOHN VONS, Cleveland, Ohio. Filed Dec. 31, 1927. Serial No. 243,830. 5 Claims. (Cl. 45—97.)



1. A signal-light reflector and mounting therefor comprising a bracket for mounting on a support, a supporting arm adjustably secured to said bracket, a double-leafed support secured to said arm and having an extended curved portion, a reflector element formed with a recess into which said curved portion extends, said curved portion having rolling contact with the reflector element, and means for retaining said curved portion and reflector element in contact.

2. A signal-light reflector comprising a reflecting surface member, a backing member secured thereto and provided with an aperture, a bearing element between said members and a second bearing element extending through said recess and engaging said first-mentioned bearing element, one of said bearing elements being resilient.

1,750,948. PROCESS OF MAKING NITRATED SUGAR EXPLOSIVES. PHILIP G. WRIGHTSMAN, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 17, 1927. Serial No. 220,282. 7 Claims. (Cl. 52—13.)

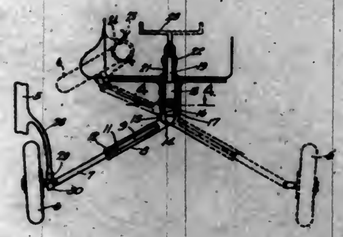
1. A process of manufacturing an explosive containing a nitrated sugar, comprising forming a suspension of over 25% sugar in a polyhydric alcohol mixture, said mixture having a viscosity less than glycerin and nitrating the mixture.

1,750,949. NITRATED CARBOHYDRATE EXPLOSIVE AND PROCESS OF MANUFACTURE. PHILIP G. WRIGHTSMAN, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 17, 1928. Serial No. 300,400. 16 Claims. (Cl. 52—13.)

1. The process of producing explosives which comprises nitrating mixtures of carbohydrates and polyhydroxy alcohols having from four to six carbon atoms and liquid polyhydroxy alcohols.

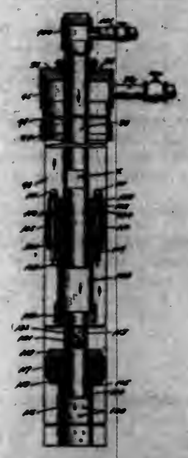
1,750,950. EMERGENCY WHEEL FOR AEROPLANES. LEWIS H. BALDWIN, Oklahoma City, Okla. Filed Apr. 29, 1929. Serial No. 359,077. 5 Claims. (Cl. 244—2.)

1. A device, as described, embodying, a pivoting, telescoping axle operatively attached beneath the cowl of an aeroplane and adapted to be folded against the side of and be suspended from said cowl, means within the cockpit for releasing said axle from said suspension, means within said cockpit for turning said axle to either side of said aeroplane, catch means for attaching the free end of said



axle at either end of its throw to the regular running gear, and a wheel operatively mounted upon said axle for emergency use.

1,750,951. APPARATUS FOR FLOWING OIL WELLS. TITUS ANDREW BEECHER, Chicago, Ill. Filed Apr. 8, 1927. Serial No. 182,021. 4 Claims. (Cl. 103—234.)

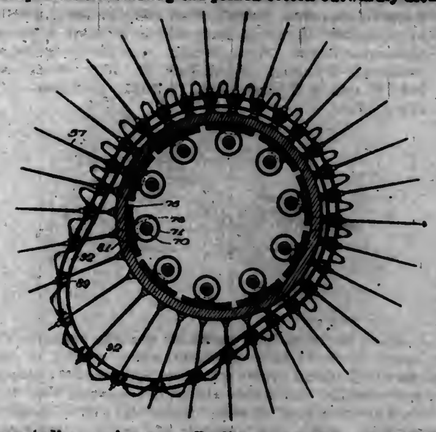


1. In a liquid elevating apparatus, the combination of a flow pipe and a fluid pressure pipe, a packer for supporting one of said pipes within the bore of a well and dividing the same into separate liquid and fluid pressure compartments, said liquid compartment having connected thereto the flow pipe, means included within the packer for positioning the same within the well bore and dividing the other of said compartments into separate chambers, the latter receiving therein oil, and a fluid pressure operated valve for controlling the entrance of fluid pressure from the pressure compartment into one of said chambers for removing the liquid upwardly therefrom through the flow pipe.

1,750,952. COTTON PICKER. HIRAM NEWTON BERRY, Greenville, Miss., assignor, by direct and mesne assignments, to Cotton Harvester Corporation of America, Greenville, Miss., a Corporation of Delaware. Filed Apr. 23, 1927. Serial No. 186,148. 12 Claims. (Cl. 56—44.)

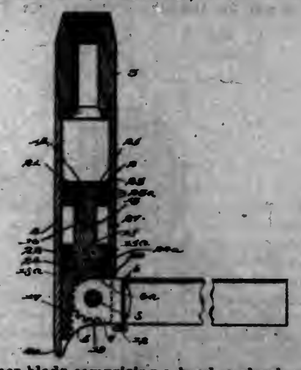
1. In a cotton picker including a picking cylinder having peripherally outstanding picking spindles and stripper bars

rotatable with the cylinder and operating lengthwise of the spindles for shifting the picked cotton outwardly along



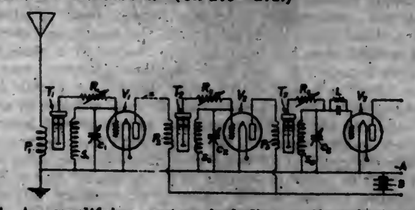
the spindles; and means affording a complete covering for the spaces between the stripper bars for the purpose described.

1,750,953. ROTARY REAMER. ALEXANDER BOYNTON, San Antonio, Tex. Filed Apr. 17, 1925. Serial No. 23,879. 5 Claims. (Cl. 255—75.)



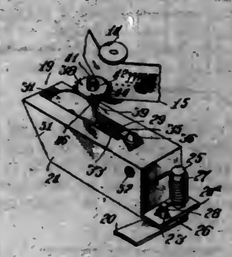
1. A reamer blade comprising a head, a shank extending from the head having a plurality of bearing surfaces of varying diameters defining shoulders, a plurality of roller cutters mounted upon the bearing surfaces of the shank, said cutters having annular recesses confronting each other at the shoulders, packing means situated in said recesses and abutting the shoulders, and means for holding the roller cutters in place upon the shank.

1,750,954. SIGNALING SYSTEM. WILLIAM LESLIE EDISON, Wilmington, Del., assignor to The W. L. Edison Manufacturing Corporation, Wilmington, Del., a Corporation of Delaware. Filed Sept. 11, 1928. Serial No. 305,272. 10 Claims. (Cl. 179—171.)



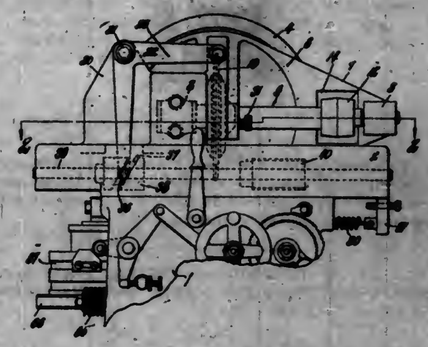
1. An amplifying system including a thermionic tube having cathode, grid and plate elements, a grid circuit joining the grid and cathode of the tube, means for impressing signals on the grid circuit, and a cell including a body of liquid and an electrode contacting therewith, said electrode being connected with the grid.

1,750,955. INKING DEVICE. EMIL O. ECKLAND and WALTER H. YOUNG, Chicago, Ill. Filed Aug. 12, 1925. Serial No. 49,748. 19 Claims. (Cl. 197—171.)



16. A device of the class described comprising a ribbon; a receptacle having a feeding wheel mounted thereon associated with said ribbon and mounted to move toward and away from the same, distributor means mounted on said receptacle to contact with said ribbon and transfer material from said feeding wheel to said ribbon; and a spring yieldingly pressing said receptacle toward said ribbon to effect yielding contact between said ribbon and said transfer means.

1,750,956. MACHINE FOR GRINDING CHASERS. RALPH E. FLANDERS, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a Corporation of Vermont. Filed June 15, 1928. Serial No. 645,515. Renewed June 7, 1929. 3 Claims. (Cl. 51—84.)

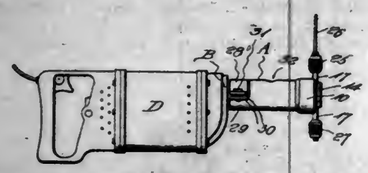


1. In a machine of the class described comprising a grinding wheel, a carriage movable substantially parallel to the axis of rotation of said wheel, a chaser holder movable transversely of said carriage to effect relative traversing movement between the cutting face of said wheel and the chaser lengthwise of the threads thereof, means for reciprocating said holder, and means acting automatically between its traverses to move said carriage to cause successive traverses between the wheel and chaser to be effected on adjacent threads.

1,750,957. DRILL ATTACHMENT. CLARENCE D. FOWLER, Bar Harbor, Me. Filed June 7, 1928. Serial No. 283,716. 1 Claim. (Cl. 77—7.)

A drill attachment comprising a cylindrical head having an axial bore, a cap secured against one end of said

head and having a bearing opening alined with said bore, a drive shaft rotatably mounted in said bore and said opening and projecting from the other end of said head for engagement with a drill chuck, a second shaft transverse to said drive shaft, gearing connecting the two shafts, said head and cap being jointly recessed to receive



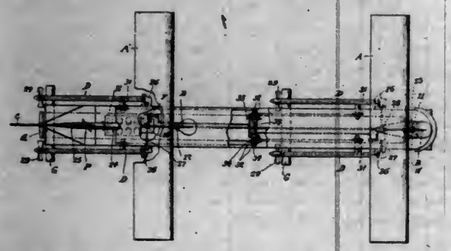
said gearing and to provide bearings for said second shaft, and a tubular member integral with said other end of said head, disposed around said drive shaft and projecting beyond the latter, the free end of said tubular member having means whereby it may be contracted around a portion of a drill body.

1,750,958. MAGNETIC LIQUID HEATER. ROBERT R. GOSHORN, Jasonville, Ind., assignor to The All-Ways-Hot Mfg. Co., Jasonville, Ind. Filed Mar. 24, 1928. Serial No. 264,502. 3 Claims. (Cl. 219—47.)



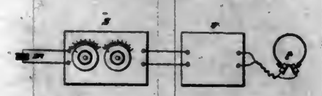
1. In a water heater, a tank, a transformer including a pipe coil as the secondary winding, a fuse in the primary circuit of the transformer, said fuse being in contact with a portion of the secondary winding.

1,750,959. HYDROPLANE VESSEL. SIMON LAKE, Milford, Conn. Filed Sept. 1, 1927. Serial No. 216,869. 14 Claims. (Cl. 114—66.5.)



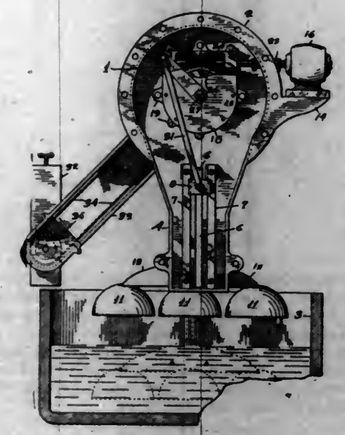
1. A motor boat comprising a hull, a hydroplane arm attached to said hull, a propeller shaft supported by said hydroplane arm, means for rotating said propeller shaft and means for depressing the propeller end of said hydroplane arm.

1,750,960. ELECTRICAL INSTRUMENT FOR DIAGNOSING AND ASSISTING DEFECTIVE HEARING. BERNHARD LANGENBECK, Leipzig, and HELMUT SELL, Berlin-Siemensstadt, Germany, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, a Corporation of Germany. Filed July 31, 1928, Serial No. 296,557, and in Germany Apr. 12, 1927. 5 Claims. (Cl. 174—177.)



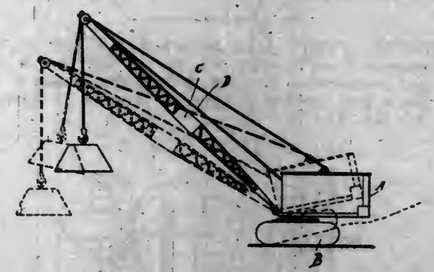
1. In an electrical instrument for acoustic purposes, one or more aperiodic filter members which consist of condensers in the main circuit and of resistances in the coupled branch circuits, and which are so dimensioned that they attenuate the sounds of lower frequency, and a receiving microphone, which, independently of the throttling transmission arrangement, selects the sounds of high frequency for reproduction.

1,750,961. WASHING MACHINE. FRANK J. LASAR, San Francisco, Calif., assignor to Champion Washer Company, Ltd., a Corporation of Nevada. Filed May 21, 1927. Serial No. 193,241. 1 Claim. (Cl. 74—14.)



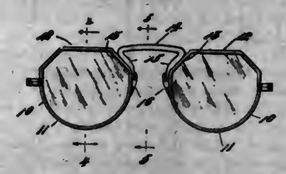
A drive mechanism for washing machines comprising a mounting bracket formed from light, soft metal; an independently constructed gear box formed from relatively heavy, rigid metal mounted within the mounting bracket and secured upon the inner surface thereof at a plurality of spaced points to distribute the strain thereon over a large area; a power driven shaft journalled within the gear box and extending outwardly through one side of said box and the bracket for connection to a source of power; a worm secured upon said shaft; a second shaft journalled within the gear box; a worm gear mounted upon said second shaft in meshing relation with the worm; and means connected to the second shaft for actuating washing mechanism.

1,750,962. BOOM-ANGLE INDICATOR FOR CRANES. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed June 24, 1929. Serial No. 373,296. 9 Claims. (Cl. 116—114.)



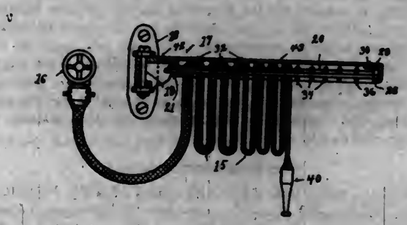
1. In combination, a boom hoist, means for adjusting the boom hoist, and indicator means carried by said boom hoist shiftable incident to adjustment of the hoist.

1,750,963. OPHTHALMIC MOUNTING. JOHN N. NELSON, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 23, 1927. Serial No. 235,273. 8 Claims. (Cl. 88—43.)



1. An ophthalmic mounting having a pair of eyewires with their upper edges extending in a line substantially parallel with the medial line thru the eyewires and having downwardly inclined inner edge portions each forming a sharply defined oblique angle with the upper edge and providing a surface in a single plane, a substantially rigid connecting bridge bar positioned to lie substantially parallel with said upper edge portion of the eyewires and having downwardly and inwardly inclined portions each providing a surface in a single plane and contacting with said plane surface of the inner edge portion for a substantial extent to provide an enlarged soldering surface along the correspondingly inclined portions of the eyewires.

1,750,964. HOSE RACK. CHARLES NUHRING, Cincinnati, Ohio. Filed Sept. 6, 1927. Serial No. 217,789. 2 Claims. (Cl. 248—28.5.)



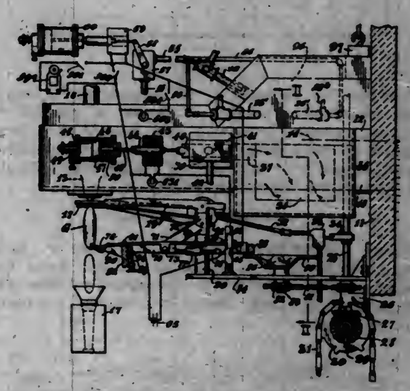
1. A hose rack comprising a supporting frame, a first guide rod stationarily mounted upon and along one side of said frame, a second guide rod pivotally attached to said frame at one end and detachably supported relative to said frame at its opposite end, a link pivotally attached to said frame and provided with a perforation to receive and detachably support the free end of said second guide rod, said second guide rod extending along the opposite side of said frame substantially parallel to said stationary guide rod, and a series of cross-bars attached by means of eyes to said stationary guide rod and adapted to be supported at their free ends upon said second guide rod and to support a series of loops of hose, and to release said cross-bars and hose loops when said second guide rod is disengaged from its supporting link, and a cross-bar having a hook at its free end to engage over said guide rod in position to engage said link and disengage the free end of said second guide rod from said link.

1,750,965. LAMP SOCKET. SAMUEL OSTERMAN, Bronx, N. Y. Filed Apr. 20, 1929. Serial No. 356,828. 6 Claims. (Cl. 173—358.)



1. A lamp socket, comprising a hollow cup-like member of insulating material adapted to be softened by heat, said cup-like member being provided internally with grooves, and a screw shell located within said cup-like member and provided with anchor points extending into said grooves, said screw shell being further provided with a slot for enabling said screw shell to be sprang into said cup-like member.

1,750,966. AUTOMATIC TEMPERATURE CONTROL FOR GLASS. JOHN F. RULE, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 7, 1926. Serial No. 114,042. 65 Claims. (Cl. 49—55.)



15. A glass feeder comprising in combination, means for flowing and suspending charges of molten glass, means for severing the charges periodically, individual mechanisms for applying cooling and heating mediums to the molten glass prior to its suspension in charge form, a control bar pivoted to the severing means, a portion of said control bar movable into and out of the path of travel of severed charges in synchronism with movements of the charge severing means, said control bar being adapted for rocking upon its pivot under influence of sus-

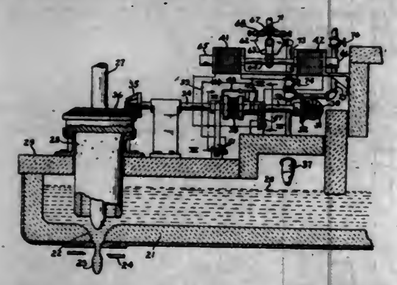
pended charges of abnormal length, and means whereby movement of the control bar will cause application of the heating or cooling medium to the glass prior to its formation into charges and thereby control the length of succeeding charges.

24. The method of maintaining uniformity in the volume of gathers of glass produced by an automatic glass feeder, which consists in causing a gather of glass as it issues from the feeder to regulate the amount of glass in a succeeding gather in response to a departure of the issuing gather from a predetermined normal volume.

42. The combination of a container for molten glass, means for causing a regulated discharge of glass therefrom, a temperature controlling device in the path of and actuated by the issuing glass, and means controlled by said device for automatically regulating the temperature of the glass in the container.

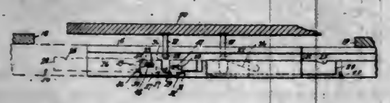
46. Apparatus for delivering charges of molten glass comprising a container from which the glass issues, means for separating the charges from the supply body of glass in the container, means for directing a flow of temperature regulating fluid, and automatic means controlled by the condition of the glass for regulating the flow of said fluid, said means comprising a mechanical element contacting with the glass before said separation and moved thereby to a position determined by the condition of the glass.

1,750,967. MEANS FOR AUTOMATICALLY CONTROLLING THE TEMPERATURE OF MOLTEN GLASS. JOHN F. RULE, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 12, 1927, Serial No. 183,067. Renewed Sept. 8, 1928. 20 Claims. (Cl. 49—55.)



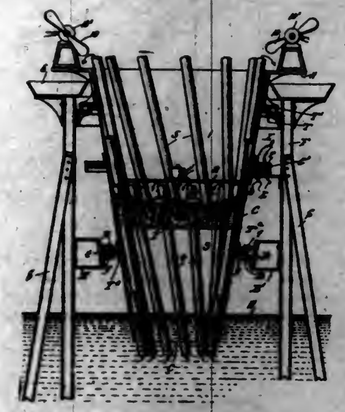
1. Means for controlling the temperature of molten glass, comprising a mechanical element in contact with the glass, means for moving said element, and means governed by the resistance of the glass to the movement of said element for controlling the application to the glass of a temperature regulating medium.

1,750,968. EXTENSION TABLE. WALTER P. SAUER, Forest Hills, N. Y., assignor to Theodor Sauer Company, New York, N. Y., a Corporation of New York. Filed Mar. 23, 1928. Serial No. 264,036. 7 Claims. (Cl. 45—113.)



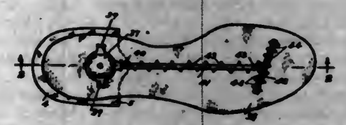
5. In an extensible table, a stationary slide, a movable slide in operative engagement therewith, a leaf secured to the movable slide, a table top normally overlying the leaf, means on the table top to maintain same at a predetermined height while the leaf is being fully extended, a set of plates in sliding relation to each other mounted on the fixed slide and provided with cutouts normally out of alinement with each other, means on the movable slide to bring the said cutouts into alinement at a predetermined point of the outward travel of the said slide, and means on the movable slide to permit the table top to be lowered when the said movable slide is partially retracted.

1,750,969. PUMP. ISAAC SCHAFRAN, New York, N. Y., assignor of one-fourth to Jack Snarck, New York, N. Y., and one-fourth to Joseph F. O'Brien, Englewood, N. J. Filed Sept. 21, 1927. Serial No. 220,875. 8 Claims. (Cl. 103—5.)



1. A pump embodying a casing supported for rotation and having an open end dipping within a body of liquid, and means for applying primary power to the periphery of the casing for rotating said casing to elevate the water therein applied to the periphery of the casing, said power means comprising an air propeller mounted on the outer wall of said casing, and means for rotating said propeller.

1,750,970. SHOE-VENTILATING DEVICE. RUDOLPH H. SCHWALM, Millvale, Pa., assignor of one-half to Laverne C. Knirnschild, Millvale, Pa. Filed July 31, 1929. Serial No. 382,372. 7 Claims. (Cl. 36—2.)

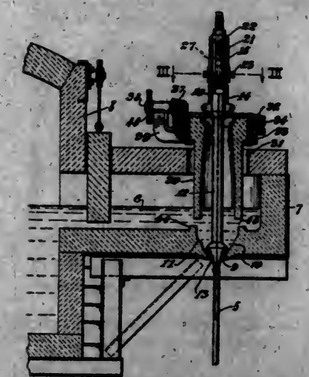


1. In a ventilating and cooling device for shoes, a shoe having a sole and an interior chamber, a shoe heel having a chamber formed therein, a bellows having a rigid bottom, and upper plate, a spring mounted on the bottom plate adapted to normally hold the bellows in extended position, a hinged piston mounted on the bottom bellows plate, a cylindrical piston chamber in the heel, in which the piston slidably reciprocates, a fresh air duct in the heel, an inlet valve mounted in the bottom bellows plate, an outlet valve mounted in the top plate of the bellows, and means connected to the said outlet valve for conveying and distributing the air pumped by the bellows to the interior cavity of the shoe.

1,750,971. METHOD AND APPARATUS FOR PRODUCING TUBULAR GLASS. LEONARD D. SOUBIER, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 16, 1926. Serial No. 141,915. 12 Claims. (Cl. 49—17.1.)

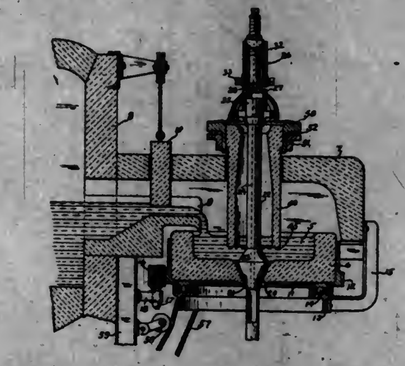
10. The combination of a container for molten glass having a bottom outlet opening in the floor thereof, a

stationary mandrel projecting downwardly into said opening and forming therewith an annular passageway through which the glass issues, a stirring tube surrounding said mandrel and projecting downward into the glass



into proximity to the floor of the container to provide an annular passageway through which the glass flows from the supply body to the outlet, and mechanism for continuously rotating said tube.

1,750,972. METHOD OF AND APPARATUS FOR FORMING GLASS TUBING. LEONARD D. SOUBIER, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 16, 1927. Serial No. 168,724. 6 Claims. (Cl. 49—17.1.)

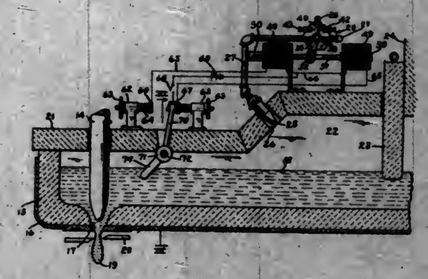


5. In a tube forming apparatus, the combination of a container for molten glass having an outlet opening extending through the floor thereof, means for supplying molten glass to said container and maintaining a head of glass therein, a mandrel comprising a stem projecting downward into the glass in the container and a head carried by said stem and projecting into said outlet opening, means for supplying air through said head, a tube surrounding said stem and projecting downward into the glass with its lower end terminating at a level above the floor of the container, and means for continuously rotating said tube and container.

1,750,973. GLASS FEEDER. LEONARD D. SOUBIER, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 16, 1927, Serial No. 168,725. Renewed Sept. 13, 1929. 19 Claims. (Cl. 49—55.)

7. A glass feeder comprising in combination, a container for a moving body of molten glass, a burner supplying

heat to the glass, a valve regulating the supply of fuel to the burner, a pair of solenoids operable independently of each other to actuate said valve and increase or decrease the flow of fuel therethrough, a circuit closer operable to cause energization of either solenoid, and a



finger carried by the circuit closer and projecting into the moving body of molten glass, said finger being movable by the molten glass in response to changes in the viscosity of the glass to actuate the circuit closer and thereby energize one of the solenoids.

1,750,974. MOVABLE STILE FOR WINDOW FRAMES. HAROLD M. STEINMETZ, New York, N. Y. Filed Mar. 19, 1929. Serial No. 348,329. 1 Claim. (Cl. 20—12.)

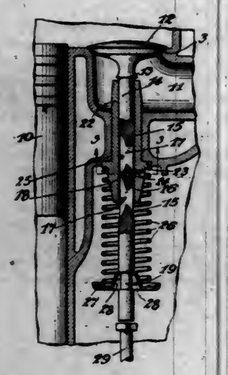


In a window frame in combination with top and bottom window sashes having sash guides, a shallow box-like body substantially the width of said frame and adapted to be set within the stiles of said frame, a freely movable cover or plate for said box-like body adapted to normally engage the side of a window flush with said guides and held in position by a center strip, and resilient elements within said body engaging said cover or plate whereby the top or bottom sash may be urged laterally to remove the opposite side thereof from its guide.

1,750,975. ENGINE VALVE. WILLIAM M. STIER, Jr., Ridgefield Park, N. J. Filed June 16, 1928. Serial No. 285,831. 7 Claims. (Cl. 123—188.)

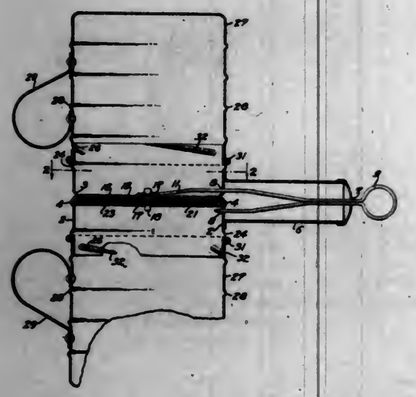
1. In a valve, in combination, a valve stem having a transverse opening therethrough, a valve head carried

by said stem and a valve sleeve for said stem having plurality of openings therethrough, said stem and said



sleeve being so positioned with respect to each other that the movement of said stem within said sleeve will force air through said openings in said stem and sleeve.

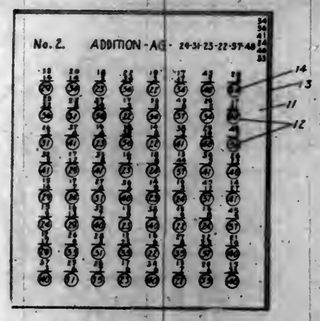
1,750,976. SIFTER. WILLIAM K. STUBBOCK, Livingston, Calif. Filed Mar. 20, 1929. Serial No. 348,572. 6 Claims. (Cl. 209—251.)



1. In a flour sifter, a ring, a handle on said ring, a sifter mechanism having a pair of star wheels arranged in the ring, a hairpin loop having an end pivotally connected to each star wheel for actuating the sifting mechanism, and a cup demountably engaged with said ring.

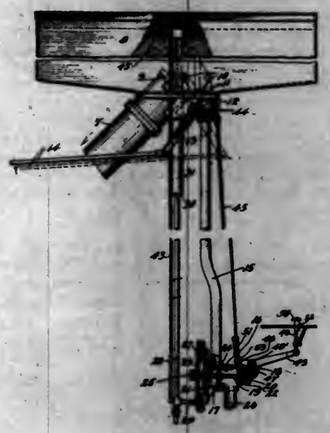
1,750,977. EDUCATIONAL DEVICE. THOMAS E. THOMPSON, Los Angeles, Calif. Filed Aug. 5, 1926. Serial No. 127,283. 12 Claims. (Cl. 35—2.)

1. A correction overlay comprising: a sheet having defined spaces through which a portion of a field of markings placed in a given order on an exercise sheet may be viewed, each space being so situated on said overlay that it would register with a vacant area between spaces on the opposite side of said overlay sheet were the sheet to be folded along a central axis so that the spaces of



the two folded portions of the overlay would unite to assume the same order as a corresponding number of said markings.

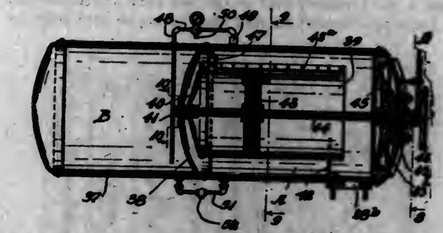
1,750,978. AUTOMATIC MEASURING TANK. GEORGE EVANS WEBB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Sept. 17, 1925. Serial No. 56,930. 11 Claims. (Cl. 221—113.)



1. In water supply means of the class described, a water supply pipe adapted to carry water to a mixing drum, a supply tank with which said supply pipe communicates, a water supply pipe leading to said tank to replenish water flowing therefrom, valve mechanism controlling the passage of water through the last mentioned pipe to the tank and through which the water supplied to the tank flows, and control means for said valve mechanism comprising a pressure diaphragm and a pipe for conveying water to the valve mechanism, and adjustable means in the tank to permit water in the latter to overflow into the last mentioned pipe.

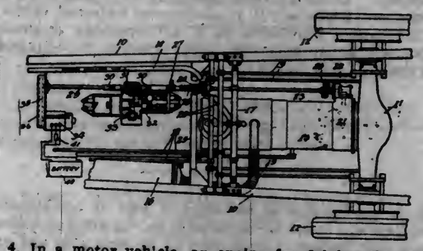
1,750,979. WATER-MEASURING TANK. GEORGE E. WEBB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Oct. 12, 1926. Serial No. 141,169. 20 Claims. (Cl. 221—95.)

1. In liquid measuring apparatus of the class described, the combination of a tank having a partition therein, dividing said tank into a measuring compartment and a pressure equalizing compartment, means in said tank for varying the capacity of said measuring compartment, and means for admitting the liquid to opposite sides of the



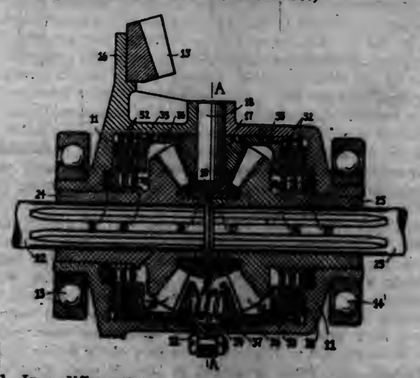
capacity varying means for equalizing the pressure thereon in the measuring operation and during the discharge of the measuring compartment.

1,750,980. BOILER FEED PUMP. RAYMOND E. WHITE, Newton, Mass., assignor to Steam Vehicle Corporation of America, Newton, Mass., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,891. 8 Claims. (Cl. 60—107.)



4. In a motor vehicle, an engine for driving the same, a source of fluid energy for the engine, feeding means for the latter source, a gear take-off device from the engine having operative connection with the feeding means, means operative during the ordinary running of the engine and vehicle when the demand on the engine and source of energy is not excessive to store energy for operating the feeding means when the demand is excessive or in traveling upgrade, and means for disconnecting the feeding means from the gear take-off of the engine at such times, whereby the feeding means will be operated solely by the stored energy.

1,750,981. DIFFERENTIAL MECHANISM. ERNEST WILDHABER, Brooklyn, N. Y. Filed Feb. 7, 1928. Serial No. 252,499. 19 Claims. (Cl. 74—99.)

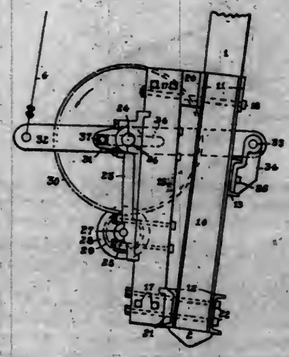


1. In a differential mechanism for automotive vehicles, gears for transmitting torque from a driving member to

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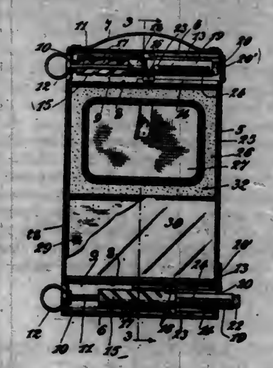
two coaxial driven members, a clutch frictionally opposing relative motion between said two driven members, spring means for maintaining said clutch in continuous engagement, and means for keeping the frictional torque substantially constant, irrespective of the relative velocity of the surfaces engaged in frictional contact.

1,750,982. WELL-DRILLING APPARATUS. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed May 27, 1927. Serial No. 194,592. 1 Claim. (Cl. 189—16.)



In a well drilling apparatus, a mast, a frame comprising a parallel pair of base bars at opposite sides of the lower end of the mast, a pair of brace bars secured to opposite ends of the base bars and inclined upwardly to engage opposite sides of the mast, and a pair of plates engaging the opposite sides of the mast and secured to the opposite sides of the upper ends of the brace bars, in combination with a machine frame, a mechanism mounted on the machine frame and adapted to cooperate with the mast, and means for detachably connecting the frames together.

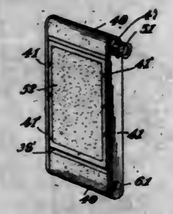
1,750,983. VANITY CASE. DAVID H. ZELL, New York, N. Y. Filed July 25, 1928. Serial No. 295,294. 5 Claims. (Cl. 132—83.)



1. A vanity case simulating the form of a kodak and provided at its opposite ends with members rotatably mounted in one of the lateral walls thereof and having exterior operating means in simulation of the film reel

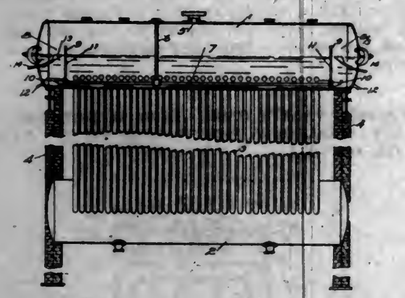
operating means of a camera, the opposite lateral wall of the case at each end being provided with an opening, a holder for a cosmetic composition material in stick form slidably mounted in each end of the case for lateral movement, and means operatively connecting each of said holders with one of said rotatable parts to project the holder and the stick of composition material through one of said openings on rotation of said part.

1,750,984. VANITY CASE. DAVID H. ZELL, Brooklyn, N. Y. Original application filed July 25, 1928, Serial No. 295,294. Divided and this application filed Jan. 22, 1929. Serial No. 334,311. 18 Claims. (Cl. 132—83.)



1. A case having a body consisting of a sheet metal plate forming the rear side of the case and having its end portions inwardly directed towards each other to form the opposite ends and front side of the case body, a sheet of flexible material covering the outer surfaces of said body plate, and means detachably secured to the case body to removably secure said covering material against longitudinal or lateral movement relative thereto.

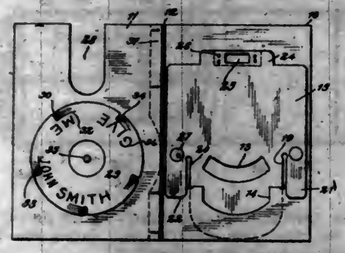
1,750,985. STEAM BOILER. GEORGE W. BACH, Erie, Pa., assignor to Union Iron Works, Erie, Pa., a Corporation of Pennsylvania. Filed July 28, 1925. Serial No. 46,596. 1 Claim. (Cl. 122—428.)



In a steam boiler, the combination of an upper drum; a lower drum; connecting tubes, the ends of the upper drum extending outwardly from the tube space; partitions separating the upper drum into a central steaming space and end feed water spaces; a feed water pipe leading into the steaming space of the upper drum and discharging into the feed water spaces; and furnace walls set inwardly from the ends of the drum leaving the feed water spaces projecting to without the walls.

1,750,986. DISPLAY OR ADVERTISING DEVICE. WALTER M. BARRY, New York, N. Y. Filed Mar. 22, 1928. Serial No. 263,633. 6 Claims. (Cl. 40—71.)

1. Display and advertising device comprising, two main parts foldably connected for forming a housing when folded against each other, flaps for holding the parts in their folded and closed positions, the front part provided with display openings, a slide containing proper pictorial illustrations sliding along the inner face of said front part, a disc rotatably held on the rear part, and a plurality of abutments formed on said disc, means on said slide for



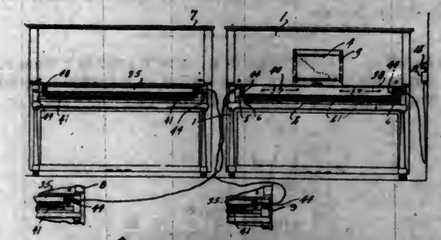
engaging said abutments, and a means on said slide for displacing the same to engage and disengage said abutment engaging means from said abutments, for displaying legends on said disc successively in their consecutive order through one of said displaying openings.

1,750,987. OPHTHALMIC MOUNTING. EARLE J. B. BEATTEY, Edgewood, R. I., assignor to Universal Optical Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 13, 1929. Serial No. 346,626. 4 Claims. (Cl. 88—42.)



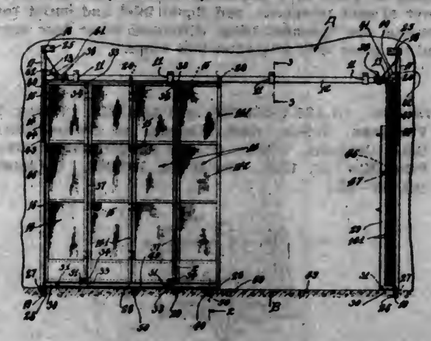
1. In an ophthalmic mounting, a pair of non-metallic lens frames, a metal bridge member having arms extending along said frames, a rivet secured to said arm and extending thru said frame, the end of said rivet being tubular and split with portions extending in opposite directions over the inner surface of said frame.

1,750,988. MUSICAL APPARATUS. JOHN C. BOSTELMANN, Jr., New York, N. Y., assignor, by mesne assignments, to The Aeolian Company, a Corporation of Connecticut. Filed Jan. 27, 1927. Serial No. 163,990. 9 Claims. (Cl. 84—478.)



5. In combination, a music dictation device detachably supportable across the keys of a keyboard instrument and being portable relatively thereto; a receiving device detachably supportable across the keys of another keyboard instrument and being portable relatively thereto; electrical connections operatively connecting said portable dictating and receiving devices, the dictating device comprising a plurality of electrical contacts together with elements for operating them arranged to rest upon and be movable with the respective keys of its keyboard instrument, and said receiving device comprising electrically operative signals at the respective keys of its keyboard instrument operatively connected by the aforesaid electrical connections with the corresponding aforesaid element-operated contacts of the dictation device.

1,750,989. FOLDING GATE. LOUIS G. BRADFIELD, Los Angeles, Calif. Filed Apr. 23, 1929. Serial No. 357,865. 11 Claims. (Cl. 20—20.)

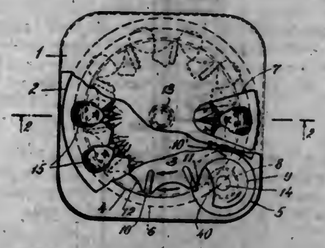


1. A folding gate comprising a rail of sectional construction, the sections being separate and one of the rail sections being movably mounted, and movably connected panels slidably and pivotally suspended from the rail and foldable alongside of one another.

1,750,990. COMMUTATOR CLEANSER. KURT BRIEL, Brooklyn, N. Y. Filed Apr. 21, 1928. Serial No. 271,980. 1 Claim. (Cl. 87—5.)

A commutator cleansing composition comprising approximately equal parts of oleic acid and paraffin oil with approximately ten per cent of amyl acetate.

1,750,991. PICTURE TOY. CESAR BUSTAMANTE, New York, N. Y. Filed May 2, 1928. Serial No. 274,436. 3 Claims. (Cl. 46—37.)



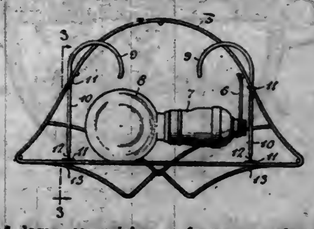
3. A moving picture toy, comprising in combination, a casing having a viewing aperture therein, a main stub-shaft inserted through one face of the casing, a picture disk supported loosely on one end of the main stub-shaft, a Geneva-gear attached to the under side of said disk, a spur-gear attached to said shaft intermediate the Geneva-gear and the casing, another spur-gear fixed in the casing eccentric to said first spur-gear, a pin-and-disk driver for the Geneva-gear attached to the second spur-gear, and a cranking disk attached to the other end of said main stub-shaft.

1,750,992. MOUNTING MEANS FOR SNAP FASTENERS. MABEL V. CLARK and CECIL F. CLARK, Jersey City, N. J. Filed Nov. 14, 1928. Serial No. 319,332. 5 Claims. (Cl. 24—150.)



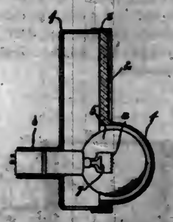
5. An interlocking fastening device comprising a stud element and a socket element, each of said elements including a plate, a pair of prongs integrally formed with said plate, said prongs being adapted to be bent under said plate, and the ends of said prongs being adapted to be bent over onto the top of said plate, said plate having indentations therein into which the ends of the prongs are adapted to extend, said plate having a plurality of depressions therein which serve to prevent slipping of the elements when mounted.

1,750,993. BED LAMP. ANNE COWEN, New York, N. Y. Filed May 2, 1928. Serial No. 274,417. 2 Claims. (Cl. 240—52.)



1. A bed lamp comprising a frame, an electric lamp socket mounted upon said frame and enclosed thereby, bearings located at the rear of said frame and arranged in pairs in spaced vertical registry, and suspending members movably mounted in each pair of bearings for supporting said frame in operative position, said members being pivotally adjustable to operative supporting positions and to inoperative folded positions relatively to said frame.

1,750,994. COMBINATION STOP AND TAIL LIGHT. WILLIAM CARL DORMAN, Long Beach, Calif. Filed Mar. 28, 1927. Serial No. 178,921. 2 Claims. (Cl. 177—329.)



1. A combination stop and tail light comprising a single compartment casing, a lens secured over the rear open face of said casing, said lens having a thin section adjacent the bottom thereof, said section serving as the tail light lens, a two filament bulb in said casing adjacent the bottom thereof, one of the said filaments emitting a feeble light and the other filament emitting a bright light, the remainder of said lens being of sufficient thickness so that the feeble light will not illuminate the same but said thick section being brightly illuminated when the second filament is lit, said thick section having a stop insignia thereon.

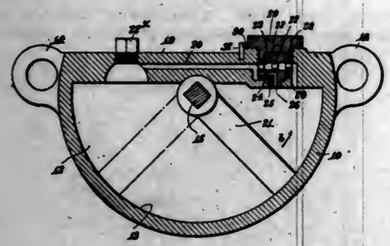
1,750,995. ENGINE VALVE. LEWIS E. EDWARDS, Huntington Park, Calif. Filed May 10, 1927. Serial No. 190,190. 2 Claims. (Cl. 123—188.)



1. A valve of the character described, including a stem, a head having a socket in one side, an enlargement on the

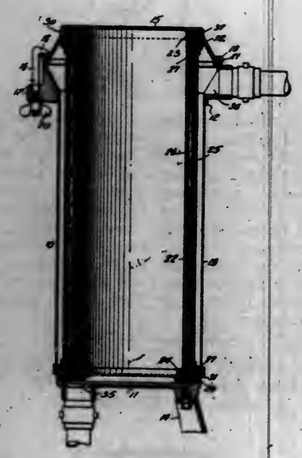
stem fitting said socket for rotation, and a plug in the mouth of the socket retaining the enlargement in the socket, the edge of the socket being turned to hold the plug.

1,750,996. SHOCK ABSORBER. FREDERICK T. ELLIOTT, Somerville, Mass. Filed June 21, 1928. Serial No. 287,121. 6 Claims. (Cl. 188—89.)



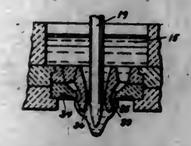
1. The combination of a casing having an inner chamber and a channel communicating at opposite ends therewith; an oscillating shaft extending through said casing; a blade movable therewith with its free end contacting with the inner cylindrical wall of said chamber; a fixed cylindrical stud extending transversely of said channel with three passages therethrough, one of which is always open and through all of which liquid may flow freely in one direction; a ball in another passage to close the inlet thereto when liquid is flowing in a reverse direction; and a rotatable sleeve surrounding said stud having a port therein for partially or wholly closing the third passage.

1,750,997. LIQUID FILTER. HARVEY FELDMEIER, Little Falls, N. Y., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 27, 1925. Serial No. 26,008. 9 Claims. (Cl. 210—183.)



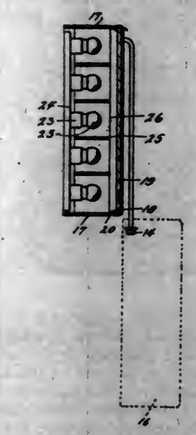
1. The combination of a receptacle open at its upper end, a movable cover for the upper end of the receptacle, means for tightly securing said cover in closed position, a liquid displacement core carried by said cover and projecting into said receptacle and forming an annular chamber therein around the core, an annular strainer dividing said annular chamber into inner and outer flow spaces for the liquid, said strainer being removably retained in place by engagement with the lower end and cover of said receptacle, and liquid inlet and outlet connections one communicating with said inner flow space and the other with said outer flow space.

1,750,998. GLASS-FEEDING APPARATUS. ENOCH T. FRENGREN, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 22, 1924. Serial No. 701,007. 6 Claims. (Cl. 49—55.)



5. Glass feeding apparatus comprising, in combination, a container for molten glass having an inner outlet orifice surrounded by an annular outlet orifice, a regulating rod projecting downward through the inner orifice, and means to reciprocate the rod vertically, the portion of the rod which works in the orifice being tapered and thereby operative to vary the open area of the inner orifice.

1,750,999. STREET INDICATOR. MATTHEW M. FINN, Sioux City, Iowa. Filed May 14, 1928. Serial No. 277,661. 4 Claims. (Cl. 40—132.)

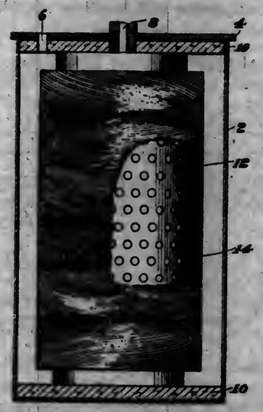


1. In a crossing indicator, a casing having a glass covered sight opening, a panel, lamps mounted on said panel, a pair of inverted L-shaped brackets, sliding, pivotal connections between the casing and said brackets, allowing the casing to be first moved away from the panel to clear the lamps and then to be dropped vertically.

1,751,000. OIL FILTER AND FILTER ELEMENT. MAURICE A. GOLDMAN, Milford, N. H., assignor to Tucapau Mills, Tucapau, S. C., a Corporation of South Carolina. Filed June 9, 1928. Serial No. 284,085. 5 Claims. (Cl. 210—169.)

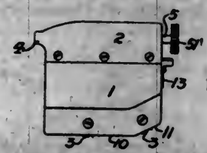
1. A filter of the class described, comprising in combination, a support arranged to permit the passage of liquid; a filtering body sustained by said support and comprising

successive layers of fuzzy strands interlaced at intervals and presenting filtering passages between the strands



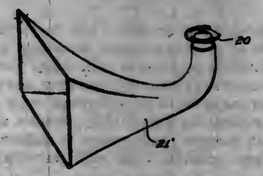
through the intermeshed fuss thereon; and connections for passing liquid through said filtering body in an inward direction.

1,751,001. CLOTH-MARKING DEVICE. FREDERICK GUTH, Seattle, Wash. Filed May 12, 1928. Serial No. 277,191. 5 Claims. (Cl. 120—9.)



1. A cloth marking device for tailors comprising a powder-holding case, means for discharging minute quantities of the powder as the device is moved over the cloth, said case having an ironing surface engaging the powder as discharged to iron it into the cloth.

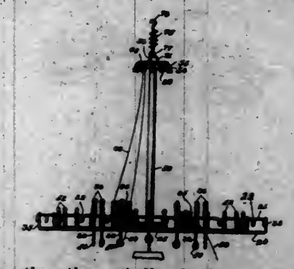
1,751,002. SHEET-METAL HORN ELBOW. FREDERICK C. JONES, Camden, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Aug. 16, 1924. Serial No. 732,411. 2 Claims. (Cl. 181—27.)



1. A horn elbow or bracket for talking machine amplifiers, comprising a hollow body open at both ends and flared from one end toward the other, and drawn, shaped and made in seamless form from a single continuous piece of sheet metal, and a member provided at one end of the body for attaching the same to a talking machine cabinet to support the elbow.

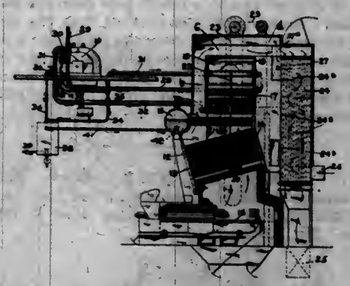
1,751,003. SPOOL HOLDER. SAMUEL KAISER, Coney Island, N. Y. Filed June 15, 1928. Serial No. 285,595. 2 Claims. (Cl. 242—134.)

1. In a spool holder the combination of a main frame, an upper suspending frame having loops formed therewith, means connecting the frames, spindles extending up from the main frame, said main frame having guide loops formed therewith adjacent to some of said spindles, and a guide loop located below each of the other spindles of the main frame, some of said spindles having spools of thread rotatably and removably supported thereon with the threads thereof leading through the guide loops of the



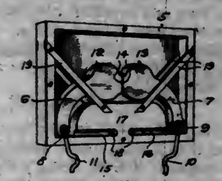
main frame, the other spindles having spools of thread rotatably and removably supported thereon with the thread of each leading to one of the guide loops of the upper frame and then leading through one of the guide loops below the main frame.

1,751,004. POWER-GENERATING SYSTEM AND METHOD OF OPERATING THE SAME. JAMES KEMMAL, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 7, 1923, Serial No. 637,088. Renewed Aug. 1, 1928. 8 Claims. (Cl. 60—73.)



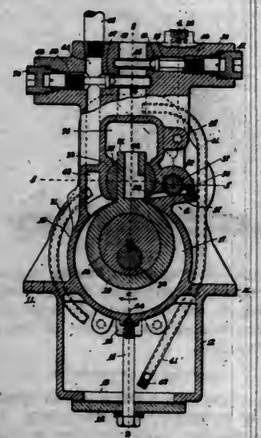
1. In a system for generating power, a steam boiler having a superheater, a furnace for the boiler, a steam reheater in the boiler setting, a multiple-stage steam turbine supplied with steam from the superheater, pipes to conduct steam from between a pair of stages to the reheater and from the reheater to an intermediate stage of the turbine, baffling to direct the furnace gases over boiler heating surfaces, the superheater and the reheater and back to the boiler heating surface, and means whereby the proportion of the furnace gases passing over the reheater may be varied to regulate the degree of reheating.

1,751,005. GRAVITY-ACTUATED CIRCUIT BREAKER. LUCIEN C. KIMSEY, Oklahoma City, Okla. Filed Apr. 30, 1929. Serial No. 359,251. 5 Claims. (Cl. 200—52.)



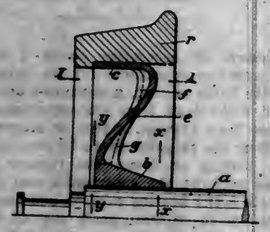
1. A device of the character described, comprising two contact making elements movable toward each other under the influence of gravity, and means for connecting them in the wiring circuit of an automobile.

1,751,006. PUMP FOR MIXING OIL AND AIR. JUSTUS R. KINNEY, Jamaica Plain, Mass., assignor to Kinney Manufacturing Company, Boston, Mass. Filed Sept. 28, 1928. Serial No. 308,980. 11 Claims. (Cl. 261—28.)



1. The combination of a tank adapted to contain oil; a combined oil pump and air pump; a pipe leading from the oil tank to said oil pump; a return pipe from the oil pump to the tank; means for discharging oil from the oil pump into the air pump; an outlet from the air pump; a by-pass from said outlet to the air pump inlet consisting in part of a tube extending across said inlet having perforations in the under wall thereof; and means for regulating the admission of air into said tube.

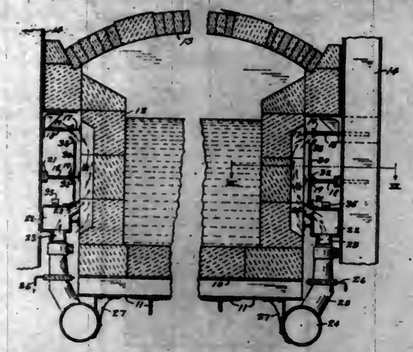
1,751,007. WHEEL AND AXLE. ERNST KREISSIG, Uerdingen-on-the-Rhine, Germany. Filed June 11, 1929, Serial No. 370,089, and in Germany June 8, 1928. 8 Claims. (Cl. 238—15.)



1. A wheel having a pressed out rim and boss in which, in order to secure good seating of a tire on the rim of the wheel and of the boss on the axle of the wheel, the rim and the boss are constructed to act as annular springs and are connected together by a web comprising either spokes or discs which are bent and provided with impressed or recessed portions or otherwise constructed so that they are subjected to a bending strain by radial forces and thus do not adversely affect the spring action of the rim and boss.

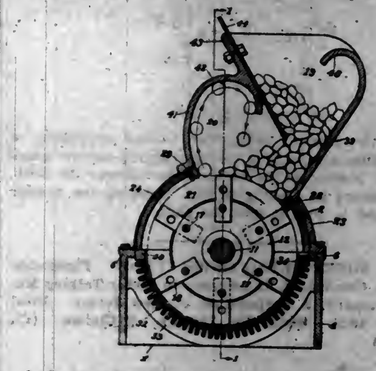
1,751,008. MEANS FOR COOLING FURNACE WALLS. RICHARD LA FRANCE, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 9, 1927. Serial No. 218,454. 6 Claims. (Cl. 49—54.)

6. The combination of a tank wall having a series of vertically extending channels in its outer surface, means arranged to direct a cooling medium into the lower ends of and upwardly thru said channels, closure plates rising vertically from said means and positioned to confine the cool-



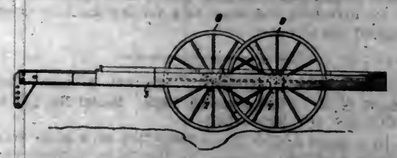
ing medium in said channel, said plates terminating short of the upper end of said channel to provide exhaust ports for said cooling medium, and means to removably secure the plates in said position.

1,751,009. PULVERIZING MACHINE. WILLIAM KELSEY LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed May 20, 1918, Serial No. 235,635. Renewed July 30, 1929. 37 Claims. (Cl. 83—11.)



1. In a pulverizing machine, the combination with a rotor adapted to revolve about a horizontal axis and having a substantially continuous cylindrical pulverizing surface, of a pulverizing chamber entirely above the rotor, means to feed material to be pulverized upon the pulverizing surface within the pulverizing chamber and permit it to freely float thereon, and means to prevent the escape of unpulverized material from said pulverizing chamber.

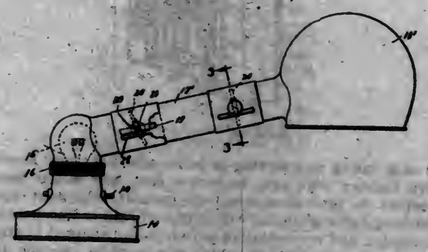
1,751,010. WHEEL MOUNTING FOR LAND VEHICLES. JESSE G. LINDEMAN, Yakima, Wash. Filed Jan. 31, 1929. Serial No. 336,373. 3 Claims. (Cl. 280—80.)



1. A device of the type described, comprising a frame, a pair of ground engaging wheels for each side of the

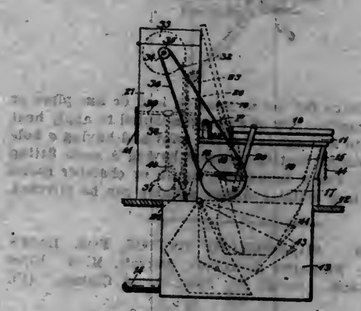
frame located substantially centrally of the length of the frame to balance the entire load on said wheels, the wheels of each pair being closely positioned with respect to each other so that their axes are spaced a distance less than the diameter of either wheel, and a pair of axles extending entirely across the frame and each supporting one wheel of each of said pairs, said axles being connected to the frame and the wheels to prevent bodily movement of the wheels with respect to the frame.

1,751,011. ELECTRIC LAMP. HORACE G. MARTIN, Jr., New York, N. Y. Filed Aug. 9, 1928. Serial No. 298,460. 6 Claims. (Cl. 240—61.)



1. In an electric lamp, a support, a socket in said support for an electric lamp, a light transmitting tube having at one end means for engaging said support and at its opposite end a light dispensing means and adjustable light controlling means in said tube, said tube forming the sole means for transmitting the light generated by said lamp to the exterior of said support.

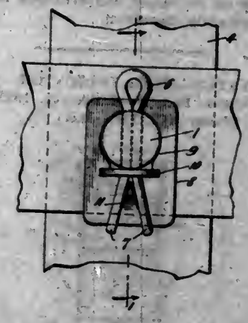
1,751,012. SANITARY TOILET. FRED M. MCHENRY and THOMAS S. WILKES, Corvallis, Oreg.; said Wilkes assignor to said McHenry. Filed May 2, 1929. Serial No. 359,960. 7 Claims. (Cl. 4—228.)



1. In a sanitary toilet having a normally closed cover, a chemical tank, means for discharging measured charges of chemical from said tank to a point below said cover, operating means for said discharging means connected with and operated by said cover, a float in said chemical tank, and means controlled by said float for preventing operation of said charge discharging means when the chemical in the tank has lowered to a predetermined extent.

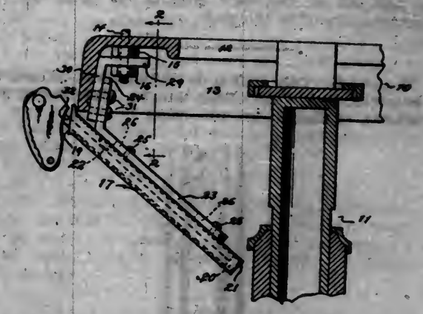
1,751,013. COTTER-PIN SPREADER. JOHN MCMULLEN, Buffalo, N. Y. Filed Aug. 2, 1928. Serial No. 296,927. 1 Claim. (Cl. 85—7.)

A device of the character described comprising a plate having a bolt or pin receiving opening therein, a wedge shaped cotter pin spreading projection carried by said plate, and a tongue carried by said plate and provided with an aperture through which the cotter pin is adapted to be passed prior to its engagement with said projection, said tongue being disposed between said projection and



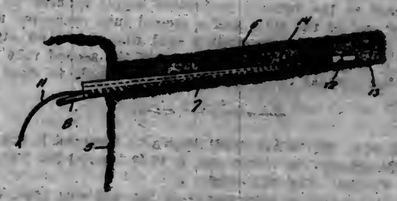
the bolt or pin receiving opening in said plate and being formed by bending the metal of the plate originally closing said bolt or pin receiving opening at, or substantially at, right angles to the plate.

1,751,014. ATTACHMENT FOR BARBERS' CHAIRS. CHARLES W. MORLEY, Barnesville, Ga. Filed Oct. 18, 1928. Serial No. 313,269. 3 Claims. (Cl. 155—188.)



1. In an attachment for the seat of a barber's chair, the combination with an elongated tubular holder adapted to receive the supporting standard of a head-rest, of an angle-bar having a long arm attached to and extending longitudinally a considerable length of the holder, said angle-bar also having a short arm oblique to the long arm and projecting from the holder adjacent to the receiving end thereof, and means for attaching the short arm of the angle-bar to the outer part of the chair seat to decline the holder beneath the seat.

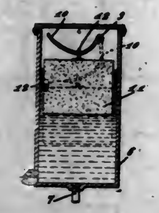
1,751,015. BLASTING DEVICE. JOHN MORA, Plains, Pa. Filed Dec. 3, 1928. Serial No. 323,867. 2 Claims. (Cl. 86—21.)



1. A blasting device of the character described, comprising a tube, for receiving the conductor wires of a

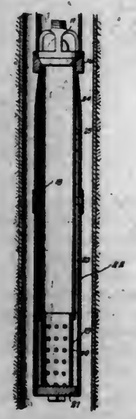
detonator therethrough, said tube being rigid and of a length to enclose and protect the portion of said wires adapted to lie in the blast-hole, said tube further being externally tapered from one end to the other and having a rigid handle on its larger end arranged to extend outwardly and upwardly therefrom.

1,751,016. WATER-LEVEL INDICATOR. CLARENCE B. O'NEILL, Clymer, Pa. Filed Dec. 11, 1928. Serial No. 325,261. 1 Claim. (Cl. 116—118.)



A water level indicator for radiators, comprising a tank, a pipe establishing communication between the tank and radiator to permit water to pass from the radiator to the tank, a shaft extending into the tank adjacent to the upper end of the tank, a curved arm having one of its ends secured to the shaft, a float of a size to fit within the tank, an eye secured to the float to receive the curved arm, said float adapted to move the arm and shaft with the rise and fall of the liquid level in the tank, and an indicator operated by the shaft.

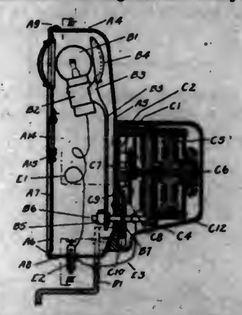
1,751,017. OIL AND GAS SEPARATOR. JAMES R. SULLIVAN, Taft, Calif. Filed Nov. 30, 1928. Serial No. 322,810. 1 Claim. (Cl. 103—208.)



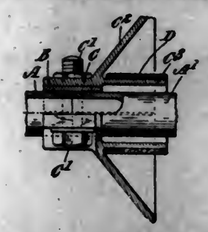
The combination with a pump cylinder, of a tube connected with the lower end thereof, a perforated thimble secured to the tube, a perforated nipple secured to the lower end of the tube, and a second tube connected with the thimble and surrounding said first tube and nipple and a plug closing the lower end of the second tube and bearing against the lower end of the nipple to close the same.

1,751,018. WIGWAG STOP SIGNAL. WILLIAM E. SIGNOR, Gettysburg, Pa. Filed Apr. 6, 1928. Serial No. 268,015. 3 Claims. (Cl. 177—329.)

1. In a vehicle stop signal of the wig-wag type, comprising a casing provided with an opaque wall having plural apertures adapted to mount therein a series of spaced transparencies which as a unit provide for a color scheme of which the endmost transparencies are given a like color while the intermediate transparencies are given a color sharply contrasting therewith, a single movable light means disposed to oscillate within said casing and reciprocatively sweep along the course of said transparencies, electromotive actuating means wholly housed within said casing and serving to bring said light into successive registry with said transparencies, said means being adapted to produce a dwell on part of said light upon reaching and registering with either of said endmost transparencies, and manipulative switch means adapted to start said motor at will and which motor while running imparts a sustained regular beat-like oscillation to the aforesaid single light.

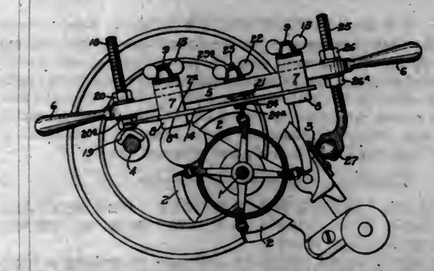


1,751,019. APPARATUS FOR JOINTING LEAD OR LIKE PIPES OR SHEATHS. ALFRED EDGAR WILSON, Bromley, England. Filed Sept. 10, 1927, Serial No. 218,728, and in Great Britain Oct. 23, 1926. 8 Claims. (Cl. 78—82.)



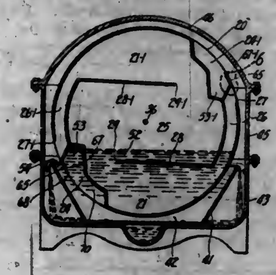
1. In apparatus for use in jointing lead or like pipes or sheaths, the combination of a clamp adapted to apply heat and pressure to a sleeve round the joint and having a hole or recess, a metal heating member having a stem fitting into said hole, and a funnel-like mouth or chamber round said member into which chamber a flame can be directed.

1,751,020. SHARPENING DEVICE FOR LAWN MOWERS. BRISBANE J. ALISON, Detroit, Mich. Filed July 20, 1928. Serial No. 294,136. 8 Claims. (Cl. 76—82.1.)



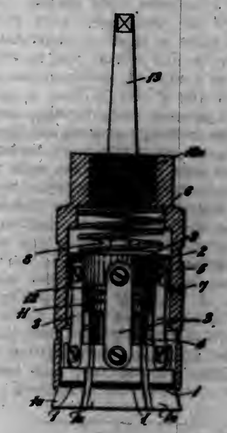
1. In a device of the character described, the combination of a frame having sharpening means attached to its underside adapted to be moved transversely of and to bear against a lawn mower blade, a block depending from said frame adapted to be moved with the latter along the transverse rod of the lawn mower, and means depending from said frame and rotatable about a substantially vertical axis adapted to hold that portion of the blade against which the sharpening means is then bearing in the desired position under the latter.

1,751,021. METER. CHARLES M. ANDERSON, Salt Lake City, Utah. Filed Aug. 15, 1927. Serial No. 213,119. 20 Claims. (Cl. 73—37.)



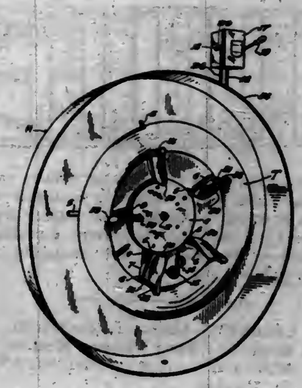
1. A meter comprising a rotor having a circumferential shell, a basin containing liquid partially submerging said rotor, walls defining balancing pockets spaced apart from each other and positioned so as to indent the circumferential shell of said rotor, walls defining measuring buckets intermediate said balancing pockets, and means for supplying liquid to said buckets.

1,751,022. BOTTLE-CAPPING MACHINE. JAMES ASKEY, London, England. Filed Sept. 18, 1926, Serial No. 135,273, and in Great Britain Apr. 30, 1926. 2 Claims. (Cl. 226—87.)



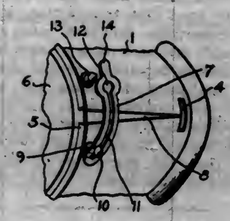
1. The combination with a thrust member having an upper head and a lower head, of a rotatable ring mounted on the upper head, flat springs suspended from said ring, radially movable segments suspended at the lower ends of the springs and forming a compressible ring about the lower head, an enclosing, rotary holder, a spring between the holder and said rotatable ring, said segments having exterior tapered faces, and said holder having a complementary interior, annular, flaring face.

1,751,023. DRYING APPARATUS. RICHARD J. AUNE, Fergus Falls, Minn. Filed Mar. 19, 1929. Serial No. 348,242. 7 Claims. (Cl. 34—26.)



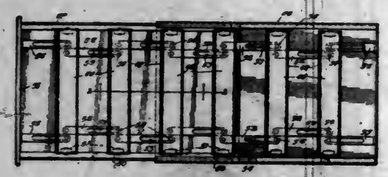
1. A drying apparatus of the class described comprising a suitably supported shaft, two wheels mounted thereon for rotation one independently of the other and independently of the shaft, driving means coacting with one of the wheels, arms extending outwardly from the second wheel, fan blades slidably mounted upon said arms, connecting means secured to each of the fan blades and the first wheel whereby the blade is forced outwardly of the arm upon rotation of said first wheel and to cause both of the wheels to rotate in unison, and an engaging means carried by each of the blades.

1,751,024. GOGGLES. NELSON M. BAKER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,770. 3 Claims. (Cl. 2—14.)



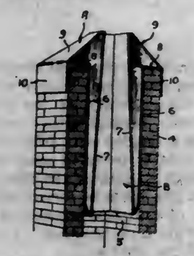
1. In a device of the character described, a split eye cup having means to engage a lens, a resilient clip having a slot intermediate its ends, said clip spanning the split portion of the eye cup, a headed pin on one side of the split portion movably securing said clip to the eye cup, a second pin on the other side of the split portion adapted to interlock with the clip to lock the lens in the eye cup, said clip having its ends engaging the adjacent walls of the eye cup and its intermediate portion arched and spaced from the adjacent walls of the eye cup whereby the split edges of the eye cup will be urged together through the resiliency of the clip.

1,751,025. FILING DEVICE. EDWARD A. BANSCHBACH, Chicago, Ill. Continuation of application Serial No. 274,323, filed Jan. 31, 1919. This application filed Nov. 7, 1921. Serial No. 513,360½. 9 Claims. (Cl. 129—16.)



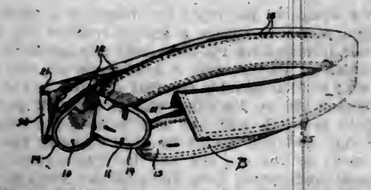
1. In a filing device, a plurality of holders each comprising a back and hinged covers, a container therefor, and carriers in which the backs of the holders are seated, movable apart for opening the covers depending upon the movement of the carriers for disclosing the contents of the holders.

1,751,026. CHIMNEY. LESTER L. BLANCHARD, Presque Isle, Me., assignor to Henri Crepeau, Montreal, Quebec, Canada. Filed July 2, 1929. Serial No. 375,402. 2 Claims. (Cl. 72—94.)



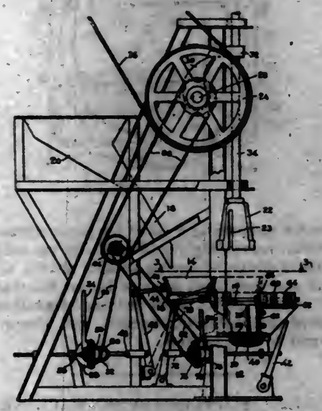
1. A thermocap for chimneys, comprising a hollow cap, a hollow conduit integrally depending from said cap, an outer shell comprising outer wall of said conduit, an inner shell of tapering proportions comprising inner wall of said conduit, and constituted a central, converging flue section, said outer shell having its upper edge outwardly turned to yield a lateral flange which constitutes the base wall of the cap, and its lower edge incurved, to merge and conjoin with the lower and larger edge of the said inner shell, which inner shell extends upwardly and convergingly from this conjunction, a cap shell of frustro-conical proportions, said shell being conjoined near its lower edge with the outer edge of said base wall and with its lower margin depending beyond such conjunction to constitute a vertically, depending rim, and extending upwardly from said conjunction at an inclined degree, forming the conical cap which is frustrated by the merging and conjunction of its upper edge with the smaller, upper edge of the said converging inner shell all as and for the purpose specified.

1,751,027. COLLAR. MARIANO A. BOIX, Mayaguez, Porto Rico. Filed Mar. 30, 1926. Serial No. 98,557. 1 Claim. (Cl. 2—131.)



A reversible collar comprising a neck band embodying a pair of symmetrically formed sections connected to provide a pocket extending along the top edge of the neck band, and a fold flap embodying connected superposed layers having wings turned inwardly between the layers along each end edge of each layer, said wings having their like ends cut away and forming folds having ends spaced inwardly from one longitudinal edge of the fold flap, the fold flap having said longitudinal edge for the depth of the cut away ends of the wings secured in the pocket of the neck band.

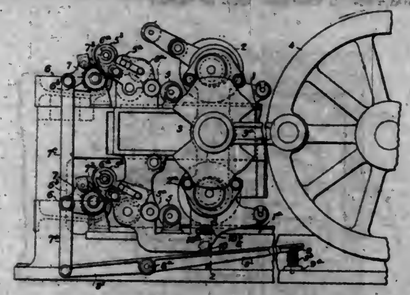
1,751,028. METHOD OF AND APPARATUS FOR MANUFACTURING CONCRETE HEADER BLOCKS. THOMAS W. CASWELL and GEORGE A. KELLY, Flint, Mich.; said Caswell assignor to said Kelly. Filed Jan. 23, 1928, Serial No. 248,680. Renewed Oct. 10, 1929. 18 Claims. (Cl. 25—41.)



12. A header block machine having a mold box comprising a stationary mold portion including side walls and a core and a movable mold portion constituting in combination with the stationary mold portion a mold box adapted to mold a block of substantially uniform dimensions in depth and width, said movable mold portion comprising as a unit side wall portions, an intermediate wall portion and a core portion, a pallet mounted to support the aggregate block forming material within the box during the molding operation and movable through the mold to strip the block therefrom, feed mechanism to deliver aggregate into the combined mold box, tamping mechanism to tamp the aggregate within the mold to form a block of said substantially uniform dimensions, mechanism operable to shift the movable portion of the mold away from the stationary portion of the mlod removing the aggregate confined therein to form a block of header shape, mechanism for moving the pallet through the stationary portion of the mold to strip the header block therefrom, said movable mold portion shifting mechanism operable to return said mold portion into cooperative combination with the stationary mold portion to deliver the aggregate contained therein into said stationary mold portion to form a part of the next block.

1,751,029. INKING MECHANISM FOR TRAVELING CYLINDER PRESSES. PAUL F. COX and JOSEPH L. COX, Chicago, Ill., assignors to The Goss Printing Press Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 19, 1926. Serial No. 320,821. 7 Claims. (Cl. 101—355.)

1. In a printing press having a traveling cylinder, inking rollers moving with the cylinder, and a fountain adjacent one limit of movement of the cylinder having a roll adapted to supply ink to the said rollers; a long pivoted lever extending along and adjacent the path of movement of the cylinder and adapted to be actuated



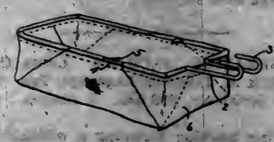
by the linear movement of the cylinder, and means actuated by said lever for imparting a gentle intermittent rotary movement to the fountain roll.

1,751,030. GARMENT SUPPORT. JULIA E. DALLIMORE, Los Angeles, Calif., assignor of one-half to Pearl M. Dallimore, Los Angeles, Calif. Filed Sept. 1, 1928. Serial No. 303,529. 2 Claims. (Cl. 241—12.)



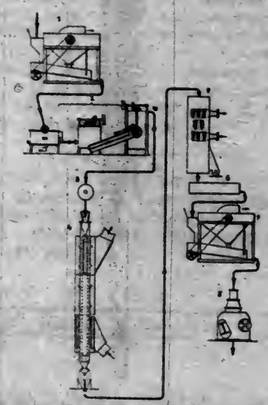
1. In combination with a garment, supports for suspending the garment from a person's shoulders each comprising a strand of a length to extend across a shoulder with its end portions depending therefrom at the front and back, each end portion being provided with a garment-engaging element at its lower end and having an elongated base secured along the upper edge portion of the garment, the intermediate portion of said strand being formed with an eye, and a fastener carried by the eye for engagement with an over-garment to retain the strand in place upon a person's shoulder.

1,751,031. ICE CARRIER. JACOB H. DARNELL, Houston, Tex. Filed May 11, 1928. Serial No. 276,893. 4 Claims. (Cl. 294—99.)



1. An ice carrier comprising a frame of resilient metal, the ends at one side being spaced apart, handles on said ends, and a flexible container secured upon said frame and depending therefrom.

1,751,032. GRINDING OF BREAD GRAIN. KARL DIENST, Frankfort-on-the-Main, Germany. Filed Sept. 1, 1928, Serial No. 303,527, and in Germany Dec. 24, 1927. 6 Claims. (Cl. 83—42.)



1. The method of grinding bread-grain into flour, which comprises preliminarily cleaning the grain, washing it, then substantially completely peeling the grain in the wet way, submitting it to motion and to airing, thereupon heating it to a temperature of substantially 158 degrees F. and subsequently cooling the heated grain to substantially 20 degrees F. and submitting it to additional cleaning and to a grinding operation.

1,751,033. HEATING RADIATOR. JOHN G. ENGELHART, Atlanta, Ga. Filed May 2, 1929. Serial No. 359,955. 4 Claims. (Cl. 257—136.)



2. In a heating radiator, end walls having longitudinal and transverse inwardly extending flanges thereon, side walls slidably received between said end walls and bearing upon said flanges, heating units received between said end walls and connected thereto, the connection of said heating units to said end walls maintaining the same and said side walls in assembled relation, the upper portion of one of said side walls having air discharge means formed therein, and means adjustably received between said end and side walls and between said heating units and air discharge means for controlling the discharge of heated air from the latter.

1,751,034. METAL FILE. LANIOUS P. ENS, Anaconda, Mont., assignor of one-half to Paul Krskov, Anaconda, Mont. Filed Jan. 3, 1927. Serial No. 158,682. 2 Claims. (Cl. 29—78.)



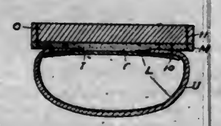
1. A file having its faces provided with fine teeth extending across the same and coarser cutting teeth on the corners intersecting the finer teeth.

1,751,035. ACOUSTICAL WAVE FILTER. HARVEY C. HAYES, Washington, D. C. Filed Mar. 3, 1927. Serial No. 172,391. 2 Claims. (Cl. 178—44.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



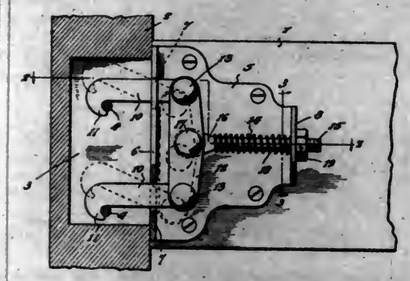
1. An acoustic filter comprising means for converting non-acoustic energy into acoustic energy said acoustic energy being in the form of a standing wave having a plurality of components, means resonant to a predetermined component of said standing wave, a plurality of energy dissipating means in fixed positional relation to said resonant means and so positioned as only to dissipate energy from other than the predetermined component of said standing wave and means for reconverting the undissipated acoustic energy into non-acoustic energy.

1,751,036. SHOE. FRED G. HOOKE and JAMES J. FLYNN, Lowell, Mass., assignors of one-fourth to Gardner W. Pearson, Lowell, Mass. Filed June 16, 1924. Serial No. 720,259. 3 Claims. (Cl. 36—19.)



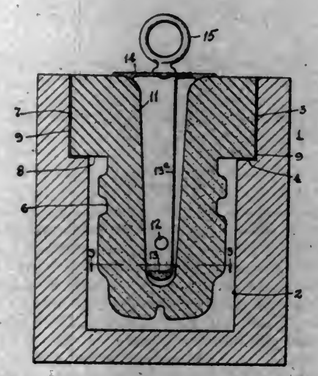
1. A boot or shoe comprising an upper, an in-sole and a cut-out middle sole reinforced at the toe, fastened together by through and through stitching at the sides and by nails at the reinforced toe, an outer sole fastened by through and through stitching to the edge of the middle sole, and pliable filling in the cut-out part of the middle sole.

1,751,037. BED-RAIL FASTENER. PHILIP M. HOWSE, Nashville, Tenn. Filed Sept. 1, 1928. Serial No. 303,446. 5 Claims. (Cl. 5—298.)



5. A bed rail fastener comprising a plate adapted to be secured against a bed rail, inner and outer flanges projecting from said plate, the inner flange having an opening therein and the outer flange formed with slots above and below the opening, anchors slidable through said slots, and actuating means for said anchors including a yoke pivotally connected with the anchors and a draw rod connected with the yoke and slidably passed through the opening in the inner flange.

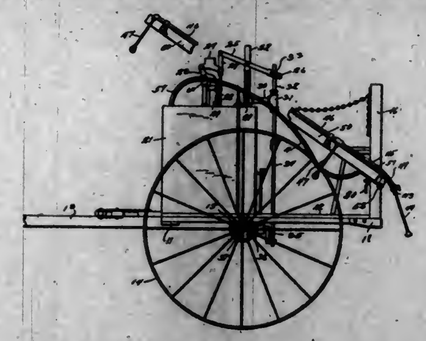
1,751,038. CASTING MAGNESIUM AND ALLOYS THEREOF. JOHN E. HOY, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 3, 1926. Serial No. 120,426. 7 Claims. (Cl. 22—214.)



1. A method of casting a readily oxidizable metal or an alloy containing the same, which comprises eliminating oxygen from the path of the molten metal on its way to and within the mold cavity by igniting an oxygen-consuming material in the path of the metal and out of contact with the mold surface.

1,751,039. SPRAYING MACHINE. LOUIS C. JANSSEN and WILHELM A. JANSSEN, Lagrange, Tex. Filed July 19, 1928. Serial No. 293,935. 4 Claims. (Cl. 299—42.)

1. A spraying machine including a wheeled supporting frame, a tank thereon, a pump carried by the tank, means actuated by the wheels for operating the pump, a vertically movable supporting member operatively mounted upon the supporting frame and adjustable to different heights, said member being also mounted for rotation about its longitudinal axis, supporting arms flexibly engaged with said supporting member whereby the arms may



be swung in a plurality of planes into parallel relation with the tank or swung outward or upward, spray pipes upon said arms and upon said member, and a flexible hose connecting said spray pipes to the pump.

1,751,040. UNCOUPLING DEVICE FOR RAILWAY CARS. EDWIN JONES, East Cleveland, Ohio. Filed May 28, 1927. Serial No. 195,055. 4 Claims. (Cl. 213—170.)



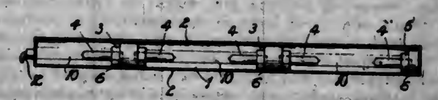
4. The combination of a crank having an arm provided with two upstanding loops located one in front of the other, and an upright link having a pair of upstanding prongs at opposite sides of said loops, a cross piece connecting said prongs and extending across above the arm, and a lower cross arm connected at one end to one of said prongs and adapted to slidably engage a locking pin, the link being shiftable from one loop to the other to permit disconnection of the link from the arm when the latter is in a lifted position.

1,751,041. AUTOMATIC NEEDLE-VALVE CLOSER. PIERRE KEROUANTON, Marieval, Saskatchewan, Canada. Filed Apr. 30, 1929. Serial No. 359,370. 1 Claim. (Cl. 161—7.)



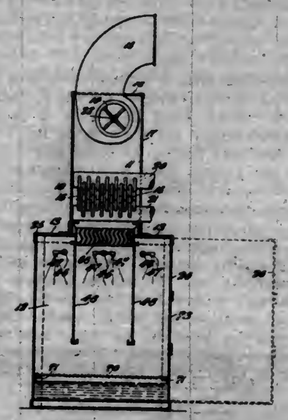
In an automatic needle valve shutter for use on a gasoline engine; a main frame member having a secondary frame secured thereto; a shaft mounted in a bearing in the main frame and pivoted at its upper end in the secondary frame; a shaft adjusting lever extending at right angles from said shaft; a spring enclosed in a spring case, said case being secured to the secondary frame; the spring being fastened to the shaft on its inner end and to the case at its outer end; a toothed wheel mounted on said shaft; a catch pivoted on main frame to engage said toothed wheel; an alarm clock mounted on the secondary frame; a lever pivoted in the secondary frame extending upwards to engage the winding key on the alarm clock, a spring to control said lever; a connecting arm and link from the lever to the aforementioned toothed wheel catch; and a means of connecting the lower end of the shaft to the needle valve stem of the gasoline engine, substantially as set forth.

1,751,042. LIGHTING FIXTURE FOR SHOW CASES. OSWALD W. KLINGSICK, St. Louis, Mo., assignor to Day-Brite Reflector Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 21, 1927. Serial No. 185,449. 5 Claims. (Cl. 240—6.)



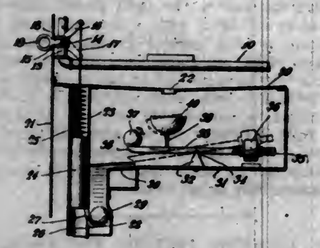
1. In a device of the kind set forth, a socket member for an electric light bulb, a reflector fitting over the end portion of said socket member, electric wiring for said socket member extending along the back of said reflector member and a clip on said socket member overlapping the end of said reflector member, said clip having rebent flange members engaging said wiring to hold it in place.

1,751,043. AIR-CONDITIONING APPARATUS. ALEXANDER THORNTON LEWIS, Merion, HARRIS PAUL GANT, Philadelphia, and ROBERT RYLAND TALIAFERRO, Beechwood Park, Pa., assignors to York Heating and Ventilating Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 10, 1927. Serial No. 190,812. 18 Claims. (Cl. 257—3.)



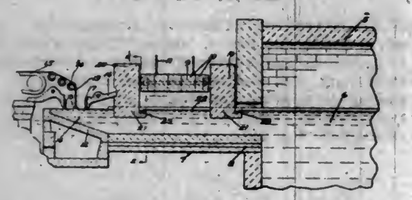
9. An air conditioning apparatus comprising a vertically arranged self-contained water spray chamber and a superposed air heater communicating with said chamber, a device for spraying water into said chamber towards the bottom thereof, means to cause air to pass successively through said chamber and through said air heater, and means to direct said air towards the bottom of said chamber and then towards the top of said chamber whereby the air moves at one time with the water spray and at the other time counter to said water spray.

1,751,044. SAFETY ATTACHMENT FOR GAS VALVES. ERICH KRAUSE, South Jamaica, N. Y. Filed Apr. 3, 1928. Serial No. 267,083. 3 Claims. (Cl. 126—42.)



1. A device for closing a valve comprising a lever secured to a valve, a weight suspended from said lever, said weight adapted to drop and rotate said lever to close said valve, means for latching said weight in raised position to retain said valve lever in open position, a platform above said weight, an opening in said platform adapted to drain boiled over liquid, a ball, and normally balanced means supporting said ball, said ball being adapted to trip said latching means and release said weight when said balanced means is over-balanced.

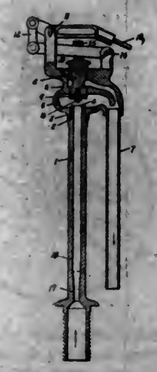
1,751,045. GLASS TANK. LEOPOLD MAMBOURG, Lancaster, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 3, 1927. Serial No. 172,224. 11 Claims. (Cl. 49—56.)



11. In glass apparatus, a furnace containing a mass of molten glass, a cooling chamber associated therewith for receiving the molten glass therefrom, a jack-arch arranged at substantially the juncture of the furnace and cooling chamber and having its lower end dipped downwardly into the molten glass to allow sub-surface glass only to flow from said furnace into said cooling chamber, a working receptacle associated with said cooling chamber for receiving the molten glass therefrom, a jack-arch arranged at substantially the juncture of the working receptacle and cooling chamber and having its lower end dipped downwardly into the molten glass to allow subsurface glass only to flow from said cooling chamber into said working receptacle, and trough means associated with the jack-arches for catching the upper stratum of glass retarded thereby and directing the same toward the opposite sides of the furnace and cooling chamber respectively.

1,751,046. BALL COCK. ROSS MARTIN, Elkhart, Ind., assignor to Northern Indiana Brass Company, Elkhart, Ind. Filed Aug. 18, 1928. Serial No. 300,510. 3 Claims. (Cl. 137—104.)

1. In a ball cock, the combination of a supply pipe having an upwardly expanding restriction spaced from its upper end, the upper end of said supply pipe constituting a valve seat, a valve casing mounted on said supply pipe and having a chamber enclosing said valve seat, and a plunger valve mounted in said casing to coact with said valve seat and provided with a flat surface and with a central conical tip disposed centrally relative to said supply pipe and adapted to enter the same when the



valve is moved toward seating position, gradually restricting the discharge capacity of the supply pipe prior to the seating of the valve.

1,751,047. COMBINED DOLL'S CARRIAGE AND SOUND-PRODUCING MEANS. LOUIS MARX, New York, N. Y. Filed Jan. 28, 1928. Serial No. 250,153. 8 Claims. (Cl. 46—47.)



1. In combination, a doll's carriage comprising a doll receiving body and a frame therefor including running wheels; and a doll crier comprising a self-contained sound producing unit mounted for rotation on said carriage and rotated by a wheeled movement of said carriage, said sound producing unit comprising a casing, a bellows therein, a reed associated therewith, a weight movable in said casing and operating the bellows to sound the reed, the mounting of said sound producing unit on the carriage being such that rotation thereof effects an oscillating movement of said weight in said casing to produce a series of intermittent cries upon wheeled movement of said carriage.

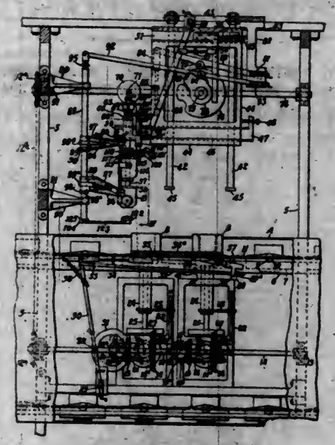
1,751,048. VIOLIN PRACTICE FINGER BOARD. WILLIAM OTTO MUESSNER, Milwaukee, Wis. Filed Oct. 25 1928. Serial No. 314,905. 6 Claims. (Cl. 84—485.)

5. As a new article of manufacture, a board having delineated on one surface thereof four sets of stringed instrument finger forms, each finger form being arranged in a longitudinal row and a pair of said forms extending from one end of the board toward a medial portion thereof and the other pair of said forms extending from the other end of the board toward a medial portion thereof,



each form being marked and provided with recesses to designate finger positions and the finger positions of each form differing from that of the other forms.

1,751,049. AUTOMATIC MEANS FOR TURNING AND FINISHING WARE IN THE MANUFACTURE OF POTTERY. WILLIAM J. MILLER, Swissvale, Pa. Filed Aug. 26, 1927. Serial No. 215,615. 36 Claims. (Cl. 25—26.)

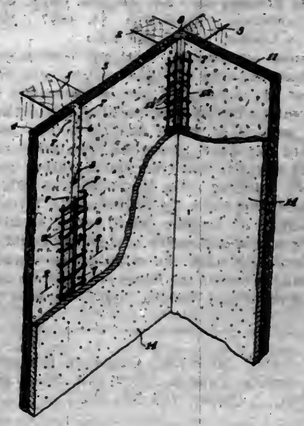


1. In mechanism of the class specified, in combination, a fluid-operated ware pick-up device, means for moving the latter in a predetermined path, of a ware-turning and finishing assembly including rotating cutting and burnishing tools, and a pattern device mounted adjacent said pick-up device for automatically guiding said tools.

1,751,050. WALL CONSTRUCTION. OSCAR NILSSON, Verona, N. J. Filed July 10, 1928. Serial No. 291,673. 3 Claims. (Cl. 72—16.)

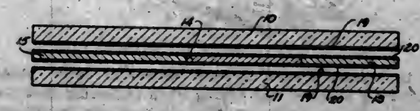
1. A building wall construction and the like including a frame member, a pair of artificial fibrous boards, means for securing the boards to the frame member in spaced relation to each other, a filling-in material incorporated into the gap between the boards, and an elongated wire

mesh unit bridging the gap and firmly secured to the adjacent fibrous boards or sheets in coplanar relation therewith, said unit being secured to the adjacent artificial



fibrous sheets by the free ends of the cross wires of the mesh which are bent at right angles to the plane thereof and formed into yielding securing nails.

1,751,051. LAMINATED GLASS AND METHOD FOR PRODUCING THE SAME. WILLIAM E. NOBBE, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 28, 1928. Serial No. 250,128. 3 Claims. (Cl. 49—81.)



3. The method of producing laminated glass, which consists in interposing a plurality of individual sheets of non-brittle material between two relatively larger sheets of glass, arranging the sheets of non-brittle material side by side so that their outer edges will be flush with the edges of the glass sheets and their adjacent edges in abutting or substantially abutting relation, uniting the glass sheets with the individual sheets of non-brittle material simultaneously, and in then cutting the glass sheets between the adjacent sheets of non-brittle material.

1,751,052. METHOD FOR MAKING LAMINATED GLASS. WILLIAM E. NOBBE, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 2, 1928. Serial No. 251,283. 8 Claims. (Cl. 49—81.)

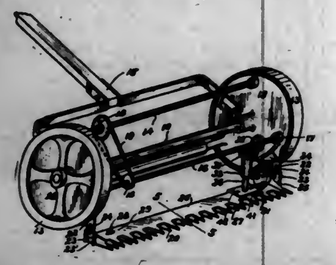


1. The method of making laminated glass, which consists in interposing a plurality of individual sheets of non-brittle material between two relatively larger sheets of glass, arranging the said sheets of non-brittle material side by side with their edges in spaced relation, uniting the glass sheets with the individual sheets of non-brittle material simultaneously, and in then cutting the glass sheets intermediate the adjacent edges of the sheets of non-brittle material whereby each individual cut sheet will have a peripheral groove or recess.

1,751,053. METHOD OF CLEANING LUBRICANT CASES OF ENGINES. WILLIAM L. OSBORNE, Los Angeles, Calif., assignor, by direct and mesne assignments, to Osborne Process, Inc., Los Angeles, Calif., a Corporation of California. Filed Feb. 14, 1927. Serial No. 168,246. 4 Claims. (Cl. 184—1.5.)

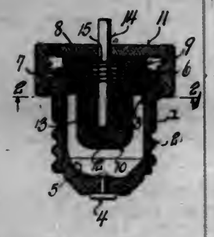
1. A method of cleaning lubricant containers, which comprises first removing the used lubricant and preventing the return of any substantial portion thereof to said container, thereafter introducing flushing liquid thereto, no substantial portion of which had previously been introduced to said container, thereafter circulating repeatedly said flushing liquid to and from the container under pressure, initially building up a liquid level of said flushing liquid in said container by continuously introducing a greater quantity of flushing liquid while simultaneously withdrawing a lesser quantity of flushing liquid, continuing said circulation until the container is cleaned, thereafter gradually lowering the liquid level therein and finally withdrawing all of said flushing liquid from said container.

1,751,054. LAWN MOWER. CLARENCE HOWARTH PEEL, Dundas, Ontario, Canada. Filed Oct. 25, 1928. Serial No. 314,971. 1 Claim. (Cl. 56—262.)



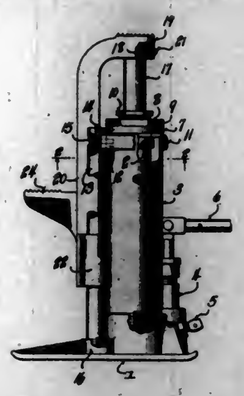
1. In a lawn mower, a fixed horizontal cutter blade transversely disposed and having teeth projecting from its forward edge, a knife mounted thereon for reciprocal movement, means for adjustably securing the fixed blade in the frame, a boss borne by the knife providing a well, an eccentric operably retained therein, a shaft rigidly rising from said eccentric, a bearing projecting from the frame, a gear journalled therein, said gear having an elongated bore telescopically receiving said shaft, a key precluding independent rotation therebetween, and a driven gear meshing with said gear.

1,751,055. FUSE PLUG. EMMET F. PELLETIER, St. Joseph, and WALTER E. BANDLOW, Benton Harbor, Mich. Filed Oct. 22, 1928. Serial No. 314,266. 3 Claims. (Cl. 200—121.)



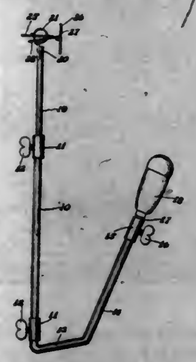
2. A renewable indicating fuse plug comprising a shell provided with terminals, a ring and a sleeve adapted to hold between them a renewable fuse strip, a plunger carried by said sleeve and spring-pressed inwardly and restrained by said fuse strip, a cap holding said sleeve and ring in place and screwed upon said shell.

1,751,056. JACK. EDWARD M. PFAUSER, Milwaukee, Wis., assignor to Blackhawk Manufacturing Co., Milwaukee, Wis. Filed June 21, 1928. Serial No. 287,095. 2 Claims. (Cl. 138—9.)



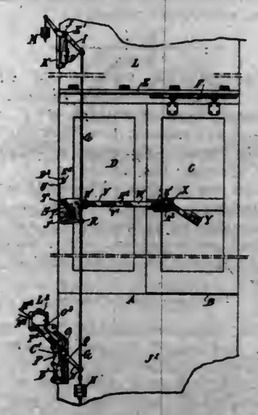
1. An hydraulic jack comprising a base, a pump carried by said base, a reservoir supported from said base, a cylinder carried by said base, a cylinder head threaded upon the upper end of said cylinder and contacting with and locking the upper end of said reservoir in place, a plunger projecting through said cylinder head, a guide carried by said base and projecting upwardly parallel to said cylinder, a member surrounding said cylinder and locked to the upper end of said guide, and a cross head secured to the upper end of said plunger and having a portion paralleling the cylinder and guided by said guide.

1,751,057. WINDOW CLEANER. REES REES, Jersey City, N. J. Filed Sept. 5, 1928. Serial No. 304,094. 2 Claims. (Cl. 15—232.)



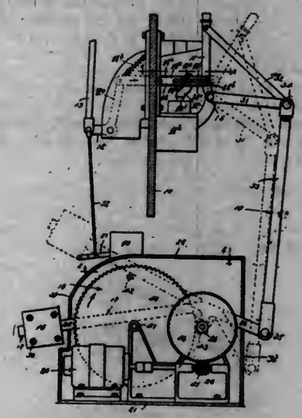
1. In a window cleaner having an arm adapted to support a cleaning head, a substantially cylindrical clamping member attached to said arm, a cleaning head having a tongue projecting therefrom, said member being resilient and having an opening extending longitudinally throughout its length, openings in said member at points distant from said first-named opening, said tongue being releasably insertable first through said first-named opening and then through one of said second-named openings, and means extending through said first-named opening and the other of said second-named openings cooperating with said member to releasably retain said tongue in said member.

1,751,058. ELEVATOR-DOOR MECHANISM. ALBERT J. ROSENTRETER, Boonton, N. J., assignor of one-half to Frank E. Hutchins, New York, N. Y., and one-half to Edgar Zabriskie, Maplewood, N. J. Filed Oct. 15, 1927. Serial No. 226,396. 3 Claims. (Cl. 187—51.)



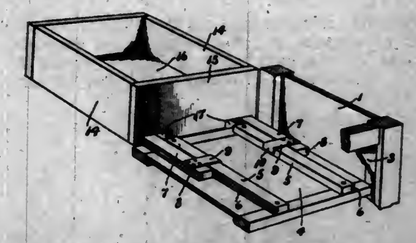
2. The combination of an elevator shaft having a plurality of floors, a flexible member extending past said several floors, a pivoted member for each floor connected with said flexible member, door-opening mechanism adapted to move the group of pivoted members of the several floors when the door is opened, means for connecting the door-opening mechanism with the pivoted member whereby the door-opening mechanism cannot be moved in either direction without moving said pivoted member, and means for checking the movement of said pivoted member on the closing movement of said door.

1,751,059. RECLOSING MECHANISM FOR CIRCUIT BREAKERS. HENRY L. SAMPSON, Los Angeles, Calif. Filed Jan. 10, 1927. Serial No. 160,138. 5 Claims. (Cl. 200—89.)



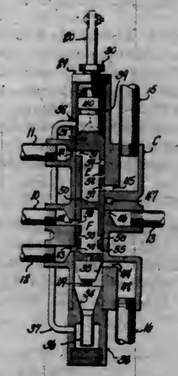
1. An attachment for a circuit breaker for reclosing the circuit breaker including a shaft, a motor, a drive connection between the shaft and motor, a lever pivotally mounted on said shaft and adapted to be operatively connected with the breaker, a weight on one end of the lever, a pinion fixed on the shaft, a gear mounted on an axis spaced from the shaft to mesh with the pinion, and a projection on the gear to engage and lift the lever and then release it.

1,751,060. DRAWER SLIDE. DIRK B. K. VAN RAALTE, Holland, Mich., assignor to Charles P. Limbert Company, Holland, Mich., a Corporation of Michigan. Filed May 15, 1928. Serial No. 277,831. 1 Claim. (Cl. 45—77.)



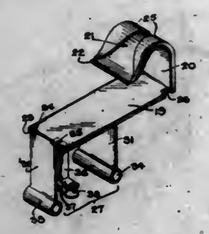
In a drawer guide construction, a horizontal support, a pair of bars each grooved longitudinally at its outer edge permanently secured to the support in spaced apart relation, a second pair of bars each grooved longitudinally at its outer edge located one alongside the outer edge of each of the first bars, guide pins extending from the second bars into the grooves of the first bars, a stop adjacent the front end of the groove in each of the first bars, a drawer having vertical sides and a bottom located a distance above the lower edges of said sides located over said bars, guide pins extending inwardly from the sides of the drawer at points below the bottom thereof into the grooves of the second mentioned bars and a stop adjacent the front end of the groove in each of the second mentioned bars, each of said bars a short distance back of its outer end having a notch cut therein at its grooved edge from its upper side downwardly to the groove therein for the purposes described.

1,751,061. VALVE FOR WATER SOFTENERS. BENJAMIN H. TER BEEST, Madison, Wis. Filed Aug. 9, 1928. Serial No. 298,531. 5 Claims. (Cl. 251—76.)



1. A valve for a water softener comprising a body portion provided with a valve receiving aperture, a valve slidably mounted within said aperture and having an upper and a lower compartment, said body portion having a port, a second port, a hard water supply port, a soft water service port, a brine supply port, a brine delivery port, and a waste port, said valve having transverse ports arranged in groups with one group communicating with the upper compartment and the other group communicating with the lower compartment, said valve in one position establishing communication between the hard water port and the first mentioned port, and between the second port and the service port, said valve in another position establishing communication between said hard water port and the brine supply port, between the brine delivery port and the second port, and between the first mentioned port and the waste port.

1,751,062. COMBINED VALANCE-BOARD SUPPORT AND CURTAIN-ROD BRACKET. JACOB M. WINTROB, Philadelphia, Pa. Filed Sept. 29, 1928. Serial No. 309,138. 16 Claims. (Cl. 156—13.)



2. In a combined valance board support and hanging rod bracket, a member having a substantially flat horizontally disposed portion for supporting a valance board, means slidably associated with said bracket member for supporting one or more rods from which hangings may be suspended, and means for supporting a draw-cord pulley upon and in fixed relation with respect to said slidable means.

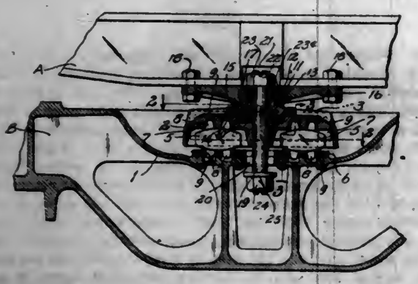
1,751,063. NITRATED CARBOHYDRATE EXPLOSIVE AND PROCESS OF PRODUCING SAME. PHILIP G. WRIGHTSMAN, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 7, 1927. Serial No. 238,466. 9 Claims. (Cl. 52—13.)

1. A process of manufacturing an explosive containing nitrated sugar, which comprises nitrating a solution of a monosaccharide and disaccharide in polyhydric alcohol, said solution containing more than 5% monosaccharide and about 25% disaccharide.

1,751,064. EXPLOSIVE AND PROCESS OF MANUFACTURE. CHARLES CHESTER AHLUM, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 20, 1928. Serial No. 271,057. 21 Claims. (Cl. 52—13.)

1. The process of producing explosives which comprises nitrating mixtures of polyhydroxy alcohols having from four to six carbon atoms and liquid polyhydroxy alcohols.

1,751,065. CENTER-BEARING CONSTRUCTION FOR RAILWAY CARS. HERBERT W. ALDEN, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed Oct. 17, 1928. Serial No. 313,094. 7 Claims. (Cl. 105—200.)



1. A center bearing construction for railway cars comprising a truck bolster having a longitudinal slideway in the top thereof, a supporting member mounted in said slideway for limited vertical and longitudinal sliding movement therein, a body bolster pivotally supported on said supporting member, and rocker members interposed between the bottom of said slideway and said supporting member, said supporting member being provided on its undersurface with downwardly opening pockets adapted to loosely house said rocker members.

1,751,066. PROCESS OF PRODUCING ELEMENTAL SULPHUR. RAYMOND C. BENNER, Bayside, and ALFRED PAUL THOMPSON, Jackson Heights, N. Y., assignors to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1926. Serial No. 134,160. 17 Claims. (Cl. 23—227.)

1. The process for producing elemental sulphur which comprises contacting a mixture of sulfide ore and carbonaceous material with an oxidising gas, and passing the gaseous products, while heated, over a catalyst adapted to complete the interaction of the gases to produce elemental sulphur.

1,751,067. PROCESS OF PRODUCING ELEMENTAL SULPHUR. RAYMOND C. BENNER, Bayside, and ALFRED PAUL THOMPSON, Jackson Heights, N. Y., assignors to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1926. Serial No. 134,162. 16 Claims. (Cl. 23—224.)

13. The process of producing elemental sulphur which comprises the step of introducing sulfide ore and carbonaceous material in finely divided dispersed form into a reducing atmosphere.

1,751,068. PROCESS OF PRODUCING ELEMENTAL SULPHUR. RAYMOND C. BENNER, Bayside, and ALFRED PAUL THOMPSON, Jackson Heights, N. Y., assignors to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1926. Serial No. 134,163. 12 Claims. (Cl. 23—224.)

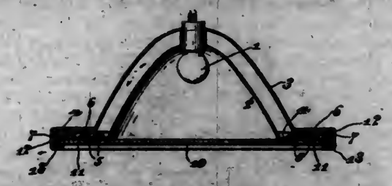
1. The process of producing elemental sulphur which comprises contacting a mixture of sulfide ore and a carbonaceous material with an oxidizing gas, maintaining a temperature sufficiently high to cause a reaction between the contacting materials and to fuse the non-volatile reaction products, regulationg the proportion of carbonaceous material to reduce substantially all the sulphur to the elemental form, and discharging the non-volatile reaction products as a slag.

1,751,069. FOOTWEAR. ALBERT BLAIN, Philadelphia, Pa. Filed Feb. 19, 1927. Serial No. 169,433. 2 Claims. (Cl. 36—34.)



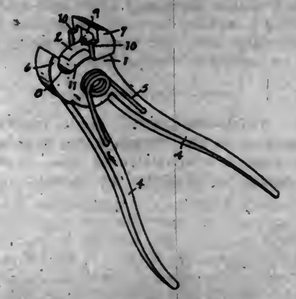
2. The combination of an article of foot-wear, comprising a heel and an upper, and having a chamber within said heel, with a sub-caliber member slidable within said chamber, an element of renewing material slidable within said member, and means to normally maintain said member and said element within said chamber.

1,751,070. REFLECTOR FOR AUTOMOBILES. EDMUND R. BOOTH, Short Hills, RICHARD W. LUCE, Maplewood, and VICTOR L. OESTMANS, Westfield, N. J., assignors to American Gas-Accumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 26, 1928. Serial No. 264,782. 14 Claims. (Cl. 240—7.1.)



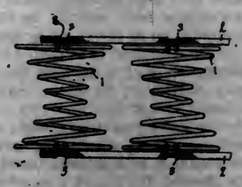
1. In combination, a source of light, a reflector surrounding the said source of light and adapted to reflect and project the rays of light therefrom outwardly, a multiplicity of self-focusing light reflectors associated with and located outside of the outer edge portion of the first named reflector, and a lens for the said light.

1,751,071. CLIP-APPLYING TOOL. GUSTAV O. BRANDT, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Filed May 17, 1928. Serial No. 278,575. 6 Claims. (Cl. 140—65.)



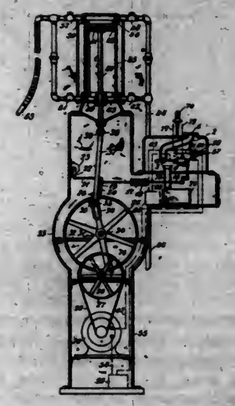
1. A tool of the class described comprising a pair of pivotally connected jaw members provided with handles and with jaws having opposed outwardly curved faces, one of the jaws having forwardly projecting stepped shoulders disposed in planes at the outside of the planes of the sides of the other jaw, said jaw members having complementary forwardly curved work supporting faces between the jaws merging into the curvature of the jaws with the reverse curves.

1,751,072. METHOD OF ASSEMBLING SPRING STRUCTURES. GUSTAV O. BRANDT, Detroit, Mich., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Filed May 17, 1928. Serial No. 278,578. 4 Claims. (Cl. 140—101.)



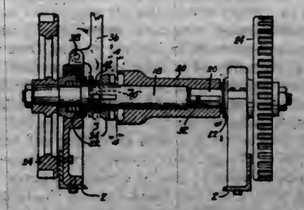
1. The method of assembling coiled body springs and coiled spring tie members having coils of uniform diameter into a spring cushion structure consisting of positioning a coiled spring tie member in tangential juxtaposition to a coil of a body spring, applying a clip adapted to embrace both the coiled spring tie member and the coil of the body spring, and closing the clip upon the parts and simultaneously offsetting the portion of the coiled spring tie member embraced by the clip providing shoulders therein at each side of the clip.

1,751,073. AUTOMATIC LIQUID-FUEL DISPENSER. CHARLES BRAHY, Brooklyn, N. Y., assignor to Charles E. Marion, New York, N. Y. Filed Mar. 28, 1928. Serial No. 265,257. 8 Claims. (Cl. 194—13.)



1. In an automatic liquid fuel dispenser of the class described a coin-operated control box comprising, in combination, a coin-deposit slot communicating with a chute terminating above a temporary coin receptacle having an electric contact point attached thereto; an intermediate releasable support for said receptacle, the said support having another electric contact point attached thereto; said receptacle being provided with means to enable the weight of a coin deposited therein to cause a downward movement of said receptacle until it comes into abutment with and rests upon said releasable support thereby bringing said points into contact with each other; means to trip said releasable support and remove it from its position where it upholds said receptacle, thereby separating said contact points and at the same time allowing said receptacle to continue on its downward course until the coin therein is caused to drop into a suitably positioned coin box; and means to bring said receptacle and said support back to their starting positions.

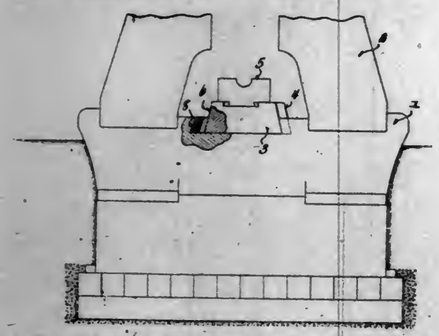
1,751,074. ROAD VEHICLE. DAVID B. COOK, Frankfort, N. Y., assignor to Acme Road Machinery Company, Frankfort, N. Y., a Corporation of New York. Filed July 14, 1928. Serial No. 292,786. 1 Claim. (Cl. 74—100.)



A power driven vehicle having, in combination, traction devices, differentially driven shafts, connections between said shafts and wheels, respectively, for driving said devices differentially, comprising gears secured on the ends of said shafts, idler gears operatively engaged by said first-mentioned gears, gears for driving said devices

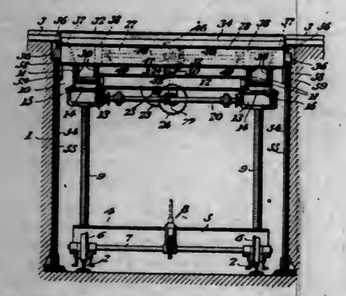
and operatively engaged by said idler gears, and means comprising a clutch interposed between said idler gears and operable from the driver's seat for locking said idler gears together to prevent differential movement of said traction devices but permitting them to be driven simultaneously by said connections.

1,751,075. SOW-BLOCK HOLDER FOR HAMMERS. MARK H. DAMERELL, Worcester, Mass. Filed May 11, 1928. Serial No. 276,967. 2 Claims. (Cl. 78—44.)



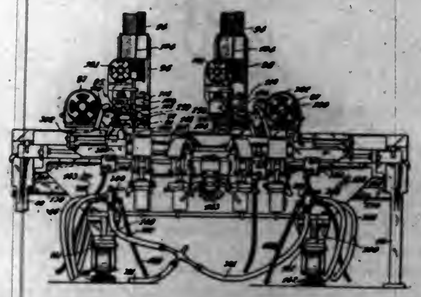
1. In a hammer having a base provided with a slot having overhanging slanting side walls, a sow block having slanting sides, a corrugated shim and a hardened straight shim interposed between a side of the sow block and a side of the slot, and a wedge driven between the hardened straight shim and the adjacent side of the slot.

1,751,076. DROP-PIT APPARATUS. FRANK L. DAVIS, Jr., Kenilworth, N. J., assignor to The Watson Stillman Co., New York, N. Y., a Corporation of New Jersey. Filed May 11, 1928. Serial No. 276,972. 6 Claims. (Cl. 104—32.)



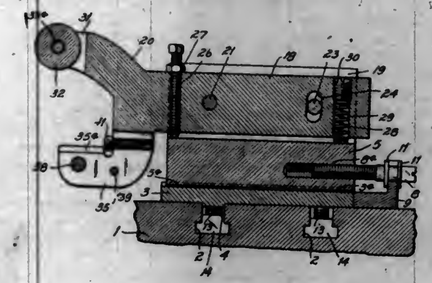
1. In a drop pit apparatus, a bridging and transporting table comprising a frame structure and a pair of track rail sections to extend across the pit supported in spaced relation by said frame structure, said table being adapted to be raised and lowered in the pit to and from bridging position; a plurality of bolting means carried by the table for holding it in bridging position, located adjacent the ends of the rail sections and each comprising a reciprocable bolt and a guide member for the bolt fixed to the frame structure and formed with a nose extending out toward the adjacent side of the pit and tapered upwardly; means mounted at opposite sides of the pit defining a plurality of keeper means to receive the bolts and support the table in bridging position; downwardly opening vertical guides mounted in the pit, extending downwardly from each keeper and flaring outward in opposite directions at their lower ends, said guides being adapted to engage opposite sides of said noses of the bolt guides to accurately register the bolts with the keepers; and means for reciprocating the bolts to operative and inoperative position.

1,751,077. AUTOMATIC WELDING. WALTER H. D'ARDENNE, J. OLIN LANDIS, and LEWIS H. CHRISTENSEN, Philadelphia, Pa., assignors to Heintz Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Sept. 12, 1925, Serial No. 55,934. Divided and this application filed Dec. 30, 1927. Serial No. 243,541. 15 Claims. (Cl. 219—8.)



1. In an apparatus of the character described, in combination, a movable jig and automatic welding apparatus for automatically welding seams on work engaged on said jig, guide arms projecting laterally from said welding apparatus, and shoe members secured to said movable jig and adapted to slide along said arms, said welding apparatus including a welding unit and means for moving said unit bodily along said work during the welding, said unit including an automatic welding head.

1,751,078. TOOL HOLDER. IRVIN DROWNS, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 23, 1928. Serial No. 272,089. 14 Claims. (Cl. 82—35.)

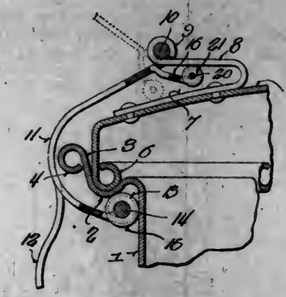


1. A tool holder for screw machines or the like, comprising a base member adapted to be slidably mounted on said machine, a body member mounted on said base member for sliding movement at an angle to the direction of sliding movement of said base member, a tool arm mounted on said body member, means for locking said base member and said body member together and to said machine in any position of their sliding movements, means independent of the combined base member and body member locking means for locking the body member to the base member in any position of its sliding movement thereon, and means independent of said first and second mentioned locking means for locking said base plate to said machine in any desired position of its sliding movement thereon.

14. The combination with a screw machine or the like, provided with parallel T-slots, of a tool holder comprising a base member provided with holes adapted to register with said slots, a body member slidable on said base member in directions transverse to said T-slots and provided with elongated slots extending in the direction of the sliding movement of said body member and registering with the holes in said base member, a tool arm pivotally mounted

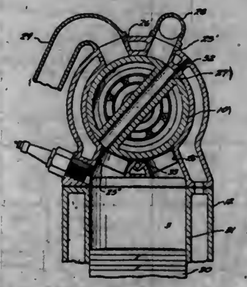
on said body member, clamping screws extending through the elongated slots in said body member and the bolt holes in said base plate and into said T-slots, T-nuts mounted in said T-slots and threaded on said screws, a clamping screw extending through an elongated slot provided therefor in said body member and threaded into said base member, means cooperating with one of said first mentioned clamping screws for preventing the same from clamping said body member to said base member, means for clamping said tool arm to said body member in any position of its pivotal movement, a working supporting roller journaled on said tool arm, means for adjusting said roller in directions transverse to its axis, a tool block slidably mounted on said arm, means for clamping said tool block to said arm, and an adjustable stop on said tool arm for limiting the sliding movement of said tool block in one direction.

1,751,079. VESSEL CLAMP. ELMER E. DRUMM, Manitowoc, Wis., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Filed Aug. 3, 1928. Serial No. 297,174. 3 Claims. (Cl. 220—55.)



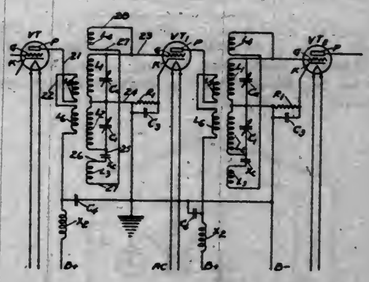
1. A vessel cover clamp comprising a resilient attaching member for securement to a cover, a clamping member hinged thereto, a roller carried by the lower end of said clamping member for engaging a portion of the vessel, and means carried by the clamping member for yieldably retaining the same in raised position, said means comprising an offset tongue, and an engaging roll carried thereby.

1,751,080. INTERNAL-COMBUSTION ENGINE. CLARK L. FRY, Wisconsin Rapids, Wis., assignor of one-half to Hugh W. Goggins, Wisconsin Rapids, Wis. Filed Aug. 2, 1928. Serial No. 296,910. 5 Claims. (Cl. 123—190.)



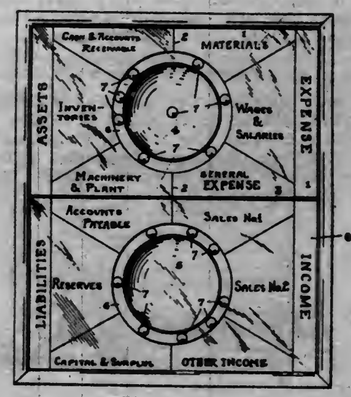
1. An internal combustion engine including a cylinder and a cylinder head provided with a cylindrical bore and a pair of ports for the passage of fuel gases, a rotor in the cylindrical bore provided with a diametrical conduit whereby, when the conduit registers with the ports, fuel gases may pass therethrough to the cylinders, said ports being so positioned in the cylinder head that in the rotation of the rotor the conduit passes out of registry with one of said ports before passing out of registry with the other.

1,751,081. RADIO APPARATUS. ANATOL GOLLOR, Chicago, Ill. Filed May 13, 1929. Serial No. 362,822. 15 Claims. (Cl. 179—171.)



1. In a system of the character described, oppposed primary inductances adapted to be energized from a common source of radio frequency, tuned secondary inductances each coupled with one of said primary inductances, a vacuum tube having a grid connected to one of said secondary inductances and phase correcting means associated with another secondary inductance for impressing upon the grid a second voltage substantially in phase with the voltage in the secondary inductance connected to the grid.

1,751,082. ACCOUNTING DEVICE. JAMES GRANT, Ben Avon Heights, Pa. Filed June 4, 1928. Serial No. 282,704. 8 Claims. (Cl. 35—12.)



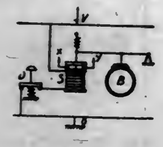
1. An accounting instruction device provided with a surface marked in divisions to denote various classes of accounting items and pellets arranged to be moved thereon to indicate various items, the pellets being caused to move through the force of gravity by tipping the device.

1,751,083. PROCESS FOR PRODUCING METALS IN ELECTRIC FURNACES. EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden. Filed May 11, 1927, Serial No. 190,652, and in Sweden Sept. 27, 1926. 4 Claims. (Cl. 75—22.5.)

1. A process for producing metal on a commercial scale, which consists in subjecting a metalliferous charge on top of a slag bath in an electric furnace to an arc from a downwardly extending electrode positioned above the charge, the charge and electrode being connected to a suit-

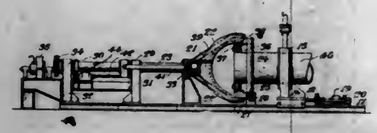
able source of electrical energy, developing sufficient energy in the afore described circuit to melt the charge, and spacing the electrode sufficiently far from the charge to make the ohmic resistance of the circuit a minimum of 0.02 ohm.

1,751,084. AUTOMATIC EMERGENCY CONTROL. WALDEMAR HOFF, Oslo, Norway. Filed Mar. 14, 1928, Serial No. 261,606, and in Norway Jan. 8, 1928. 18 Claims. (Cl. 303—19.)



1. Safety apparatus for locomotives controlled by a single operator, comprising, in combination, an automatic control device whereby said locomotive can be maintained in operation or stopped; a "dead man's button" normally held by said operator; means for operating said control device so that normally the holding or release of said button maintains in operation or stops respectively the said locomotive; interrupting means driven by said locomotive; means whereby said interrupting means is adapted to operate said control device at intervals in a manner adapted to maintain in operation or stop said locomotive; and means whereby said control device, after operation so as to stop said locomotive, can be again operated by said button so as to be reset and maintain said locomotive in normal operation.

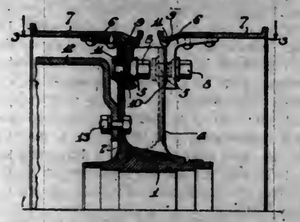
1,751,085. METHOD OF AND APPARATUS FOR FORMING HEADS ON TUBULAR ARTICLES. ROBERT KINGSLEY HOPKINS, New York, N. Y., assignor to The M. W. Kellogg Company, a Corporation of Delaware. Filed Sept. 29, 1927. Serial No. 222,787. 6 Claims. (Cl. 113—52.)



1. Method of forming heads on tubes which comprises bringing a roll into contact with the external surface of a tube at a point adjacent to, but spaced from, an end thereof, causing relative movement between said roll and said tube simultaneously in a rotary and a longitudinal direction, and causing said roll to move longitudinally of said tube toward the adjacent end thereof and at the same time causing the circle described by the relative rotary movement of the roll and tube to gradually decrease in diameter.

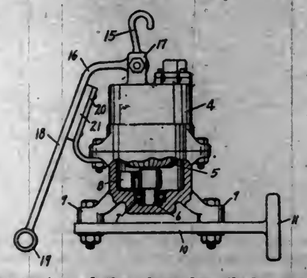
4. A forming head for a head-forming apparatus comprising a support, a plurality of spaced arms radiating from said support and carrying arcuate guideways, roll-carrying members movable in said guideways, and means movable longitudinally of said support for moving said roll-carrying members along said guideways.

1,751,086. VEHICLE WHEEL. J. HAROLD HUNT, Detroit, Mich., and GORDON M. EVANS, New York, N. Y., assignors to Bud Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 29, 1927. Serial No. 236,898. 2 Claims. (Cl. 301—13.)



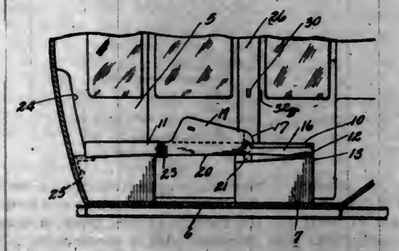
1. In a vehicle wheel, a single disc wheel body having its outer peripheral portion formed with radial corrugations to provide transversely offset portions, and a pair of tire supporting rims secured to said offset portions.

1,751,087. AGITATOR FOR CONCRETE MOLDS. CORWILL JACKSON, Chicago, Ill. Filed July 5, 1928. Serial No. 290,355. 13 Claims. (Cl. 259—72.)



1. An apparatus of the class described comprising an electric motor casing, a rotor within said casing provided with a shaft having an unbalancing weight thereon, a bar-like form engaging member disposed transversely of and rigidly secured to said casing, a lever pivotally mounted on the upper end of said casing with one end projecting downwardly at the side of said casing and in opposed relation to said form engaging member and provided with a handpiece, its other end being provided with a suspending hook, and a thrust arm on the side of said casing provided with a resilient supporting pad for said lever.

1,751,088. CONVERTIBLE SEAT FOR AUTOMOTIVE VEHICLES. EDWARD L. JACOBY, Gaylord, Mich. Filed Dec. 5, 1927. Serial No. 237,659. 3 Claims. (Cl. 155—7.)



1. The combination with a vehicle body, of a seat support, a seat frame pivotally connected to the front of said support, a seat cushion detachably mounted therein, a back frame pivotally connected to the rear end of the pivoted seat frame, cams mounted on said back frame and adapted to engage the seat when the back is swung down, and means on the body for rigidly and detachably engaging the back frame when it is swung to upright position.

1,751,089. METHOD OF PRODUCING A WOOL FINISH ON COTTON GOODS. RICHARD G. KNOWLAND, Wollaston, and GILBERT T. LOVERIDGE, Boston, Mass., assignors to Nashua Manufacturing Company, Nashua, N. H., a Corporation of New Hampshire. Filed May 11, 1926, Serial No. 108,380. Renewed Aug. 13, 1929. 5 Claims. (Cl. 8—20.)

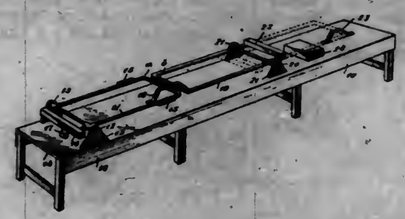
1. That improvement in the process of producing a wool finish on cotton goods which consists in subjecting the goods to the action of a caustic alkali of mercerizing strength until the cotton fibre of the goods has become well plumped or swelled, allowing the goods to shrink freely during the action of the caustic thereon, washing a considerable proportion of the caustic out of the goods, drying the goods with heat while a part of the caustic still remains in them, and subsequently removing the remaining caustic from the goods.

1,751,090. SPEAR. NELSON LAMOUREUX, Whittier, Calif., assignor of one-half to Michael W. Lukes, Compton, Calif. Filed Apr. 4, 1929. Serial No. 352,341. 9 Claims. (Cl. 294—96.)



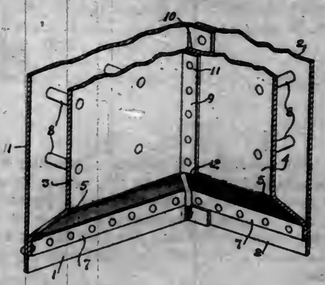
1. A well tool of the character described including, a body, a wedge part on the body, a slip mounted for cooperative movement along the wedge part and for lateral movement to position out of engagement with the wedge part, and means preventing lateral movement of the slip in one direction from the wedge part.

1,751,091. BAG MACHINE. HENRY B. LANDAU, Sandusky, Ohio, assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed June 7, 1924. Serial No. 718,458. 9 Claims. (Cl. 223—20.)



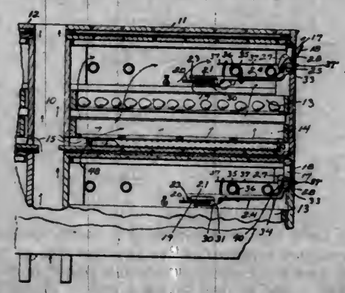
1. An apparatus for lining bags comprising cooperating complemental carriers arranged and constructed to carry a bag and a liner respectively, each carrier being pivoted to move independently in a vertical plane into cooperative relation with the other.

1,751,092. STEAM BOILER. CLARENCE B. LITTLE, Dayton, Ohio, assignor to The Brownell Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 26, 1928. Serial No. 249,617. 1 Claim. (Cl. 122—368.)



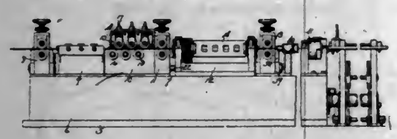
In a boiler water leg, a pair of rectangular sheets of metal, said sheets being united at right angles to each other along parts of one edge of each sheet by an overlapping joint, the other part of said edge of each sheet having an offset portion, each offset portion having a part of its edge at an angle to the overlapping joint and a portion parallel to said joint, and the edges of the offset portions beveled and united by welding.

1,751,093. VENTILATING AND HUMIDIFYING SYSTEM. GEORGE T. MARKEY, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis. Filed Feb. 6, 1926. Serial No. 86,482. 9 Claims. (Cl. 119—42.)



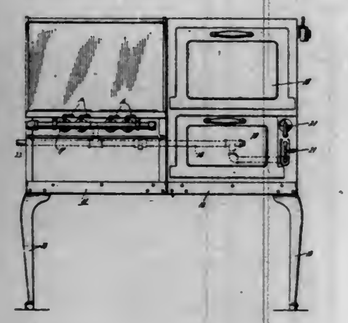
1. In a ventilating system for incubators, an egg compartment having a horizontal slot in the lower portion of one wall, said slot and the chamber space being adapted to allow air to enter in a horizontally flowing sheet and another horizontal slot in the upper portion of an opposing wall, said slots being of a length substantially equal to the length of the chamber, means for manually controlling the passage of air through one of the slots by varying its width and means for thermostatically controlling the passage of air through the other, whereby the capacity of the inlet slot may be proportioned to the normal requirements for delivery of air through the outlet, said compartment having an egg tray at an intermediate point adapted to promote distribution of the air current throughout the portion of the compartment occupied by said tray by partially obstructing the flow of air at all points in the space occupied by the tray.

1,751,094. WIRE-STRAIGHTENING MACHINE. GEORGE FRANKLYN MATTESON, Rockyhill, Conn., assignor to The F. B. Shuster Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 6, 1928. Serial No. 268,016. 7 Claims. (Cl. 140—140.)



1. A wire straightening machine including a rotatably mounted straightening arbor having means for straightening the wire passed therethrough, and a breaker unit comprising sets of oppositely arranged rolls with means for positively driving one of said sets to force the wire toward and to substantially straighten said wire for delivery to said arbor.

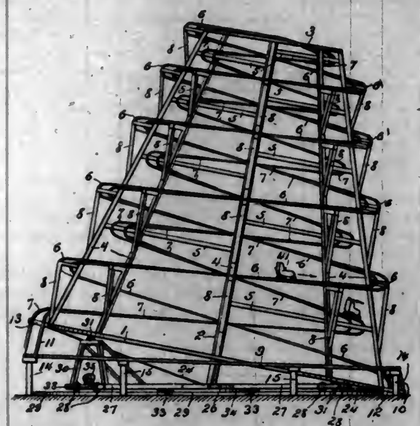
1,751,095. REVERSIBLE STOVE AND FUEL CONNECTION. LEWIS MOORE and CLAUDE M. DIBBLE, Joliet, Ill., assignors to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Nov. 27, 1925. Serial No. 71,561. 1 Claim. (Cl. 126—39.)



In a stove the combination of a burner section and a broiler section arrangeable one at either side of the other, said sections being provided with fuel supply inlets at their rear, and a said section having a burner supply manifold at its front and connected to the fuel supply inlet of said section at the rear by a pipe passing through the section, and a pipe assembly at the rear of the stove for delivering fuel to said supply inlets, said pipe assembly consisting of parts adapted to be connected together in one relationship when said sections have one arrangement and in a different relationship when said sections have the reverse arrangement.

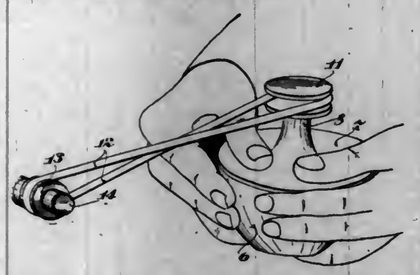
1,751,096. COASTING APPARATUS. CHARLES E. MORRIS, Leavenworth, Kans. Filed Mar. 10, 1927. Serial No. 174,235. 5 Claims. (Cl. 272—50.)

1. In a coasting apparatus, a gyratory support, a track carried thereby having two upwardly leading spiral portions of opposite leads, connected at their upper ends and encircling the axis of said support and having each an angle of lead less than the angle of said axis to the vertical, and a landing track comprising two swinging portions having one set of ends respectively connected to the



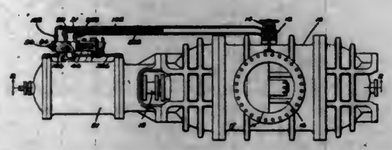
lower ends of said spiral portions and a stationary portion having its ends respectively connected to the other set of ends of said swinging portions.

1,751,097. DENTAL INVESTMENT MIXER. EARL ALLEN NELSON, Minneapolis, and CHARLES E. LARSON, St. Louis Park, Minn. Filed Sept. 19, 1928. Serial No. 307,026. 4 Claims. (Cl. 259—107.)



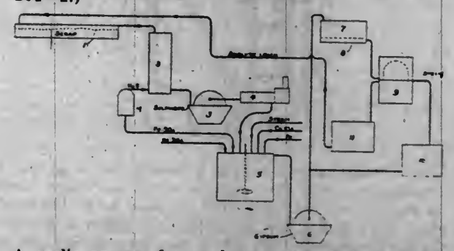
1. A mixing device of the kind described comprising a bowl of yielding material and a spatulating blade of unyielding material arranged to rotate within and formed at its outer portions on lines that approximately fit the interior of the bowl, and the oppositely projecting arms of said blade having operative surfaces that are backwardly curved in respect to the direction of rotation of the blade so that the curved portions thereof blend approximately into tangential contact with the bowl.

1,751,098. VALVE-CONTROL SYSTEM. ERNEST W. ORTON, Mountain View, and CHARLES V. FOULDS, Berkeley, Calif., assignors to The Pelton Water Wheel Company, San Francisco, Calif., a Corporation of California. Filed July 11, 1927. Serial No. 204,997. 8 Claims. (Cl. 137—139.)



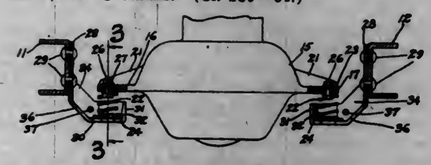
1. In a hydraulic control system, a valve adapted to open and close a hydraulic pipe, the inflow side of the valve being connected to a source of water under pressure, a controllable bypass extending about said valve, hydraulic means utilizing the pressure of water on the outflow side of the valve for opening the same, and valve means for controlling flow of water from said outflow side to said hydraulic means.

1,751,099. PROCESS OF MAKING ELECTROLYTIC IRON FROM SCRAP. ROBERT D. PIKE, Piedmont, Calif. Filed July 20, 1926. Serial No. 123,625. 1 Claim. (Cl. 204—1.)



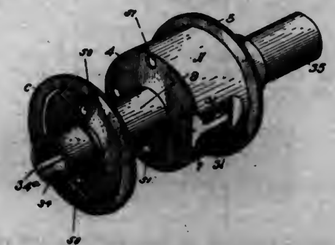
A cyclic process for producing electrolytic iron from scrap, which consists in dissolving the scrap in a leach containing ferric chloride, purifying the reduced liquor by precipitation of metallic impurities as sulphides, adding $CaCl_2$ to restore chlorine losses to the cycle, and adding sufficient sulphate ion to precipitate the calcium of the said calcium chloride as gypsum, filtering off the gypsum, electrolyzing the solution for production of pure electrolytic iron and regeneration of the leach.

1,751,100. ENGINE MOUNTING FOR AUTOMOTIVE VEHICLES. ROBERT SARDESON and FRANK J. LA MERE, Minneapolis, Minn., assignors to Sardeson & La Mere Patents Holding Company, Ltd., Minneapolis, Minn., a Partnership composed of J. D. Strutzel, Frank J. La Mere, Robert Sardeson, John Corser, and Martinson Brothers & Osborn, Inc. Filed Jan. 12, 1925. Serial No. 1,905. 8 Claims. (Cl. 180—64.)



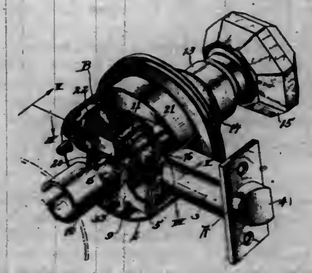
1. A device of the class described comprising a bracket having a cup-shaped socket and a circumferential groove at the inner side of its wall, said bracket being slotted to permit springing of the socket members thus formed, to clamp the terminal of a spring within the groove.

1,751,101. DOOR LOCK. WALTER R. SCHLAGE, San Francisco, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a Corporation of California. Filed Aug. 8, 1923. Serial No. 656,335. 45 Claims. (Cl. 292—169.)



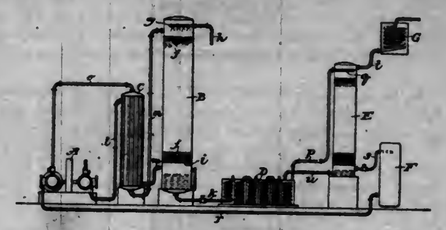
6. In a lock of the character described, a retractor guide, said guide comprising an end plate, a pair of side plates disposed at right angles thereto and parallel with relation to each other, said end plate having a bearing opening formed therein for the reception of a lock spindle, a pair of hook shaped lugs formed one on each side plate, said side and end plates being substantially rectangular in shape, and a pair of securing lugs having threaded openings formed therein, said lugs being flush with the face of the end plate and forming a part thereof.

1,751,102. CLOSET-DOOR LATCH. WALTER R. SCHLAGE, San Francisco, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a Corporation of California. Filed Mar. 8, 1926. Serial No. 93,081. 7 Claims. (Cl. 292—358.)



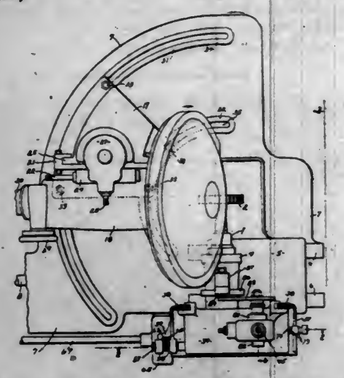
1. In a latch of the character described the combination with the latch actuating unit and the clamping plate cooperating therewith, of an inner and an outer spindle in the latch actuating unit, a third spindle carried by the clamping plate and telescoping with relation to the inner spindle, and interlocking means connecting the inner spindle and the third spindle whereby turning movement of the third spindle will be transmitted to turn the inner spindle.

1,751,103. PROCESS FOR RECOVERING GAS CONSTITUENTS FROM GAS MIXTURES. MAX SCHROEDER, Berlin, Germany. Filed Oct. 29, 1924, Serial No. 746,569, and in Germany Aug. 12, 1924. 3 Claims. (Cl. 23—178.)



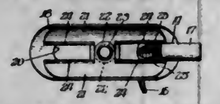
1. The cyclic process for recovering sulfur dioxide from a gas mixture containing the same and a gaseous component which is relatively insoluble in water which comprises compressing the gas mixture by means of force supplied in part by steam and in part by said gaseous component after the same has been compressed, separated from the gas mixture and heated, subjecting the gas mixture while maintaining it compressed to an absorbing operation by contacting it with water, separating the unabsorbed gaseous component from the resulting aqueous solution of sulfur dioxide, heating and delivering it while maintaining it compressed to the gas mixture compressing operation, elevating said aqueous solution of sulfur dioxide by means of the gas pressure maintained on it during the absorbing operation and liberating its sulfur dioxide content by countercurrent treatment with exhaust steam from said gas mixture compressing operation, and preheating said aqueous solution of sulfur dioxide on its way to the sulfur dioxide liberating operation by heat transfer thereto from the water leaving said sulfur dioxide liberating operation.

1,751,104. GEAR-GRINDING MACHINE. CHARLES H. SCHURR, Cleveland, Ohio, assignor to The Lees-Bradner Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 15, 1928. Serial No. 254,382. 17 Claims. (Cl. 51—52.)



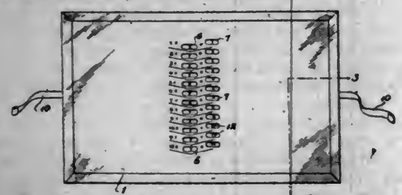
1. In a gear grinding machine, a main frame, a grinding wheel supporting column on the frame, a planular faced grinding wheel rotatably mounted on the column, ways on the frame, a reciprocable slide on the ways, a work spindle rotatably mounted on the slide, means for reciprocating the slide and oscillating the work spindle to cause a work gear mounted on the work spindle to roll on an imaginary conjugate rack, means for adjustably moving the column on the frame and for adjustably moving the planular face of the grinding wheel on the column to bring the wheel plane into coincidence with a tooth face of an imaginary right hand or left hand helical rack of helical angle from zero degrees upward.

1,751,105. CURTAIN FIXTURE. HARRY D. SEVISON, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed July 22, 1929. Serial No. 379,910. 5 Claims. (Cl. 156—26.)



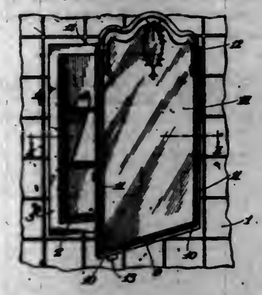
4. In a curtain fixture, tube, upwardly spring-pressed holding members at the ends of the tube, finger pieces projecting laterally from one side of the tube at the center of the same for retracting the holding members, and spring clips compressibly embracing the portions of the finger pieces within the tube to prevent the finger pieces from rattling.

1,751,106. EDUCATIONAL APPLIANCE. FREDERICK H. SHELLEDY, Bladensburg, Md. Filed June 17, 1927. Serial No. 199,520. 5 Claims. (Cl. 35—2.)



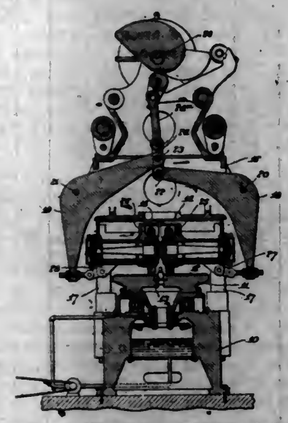
1. An educational appliance comprising a housing having spaced front and back surfaces, said surfaces being provided with offset rows of vertically alined indicia viewing openings, a table card bearing indicia and slidable between said surfaces, and means for operating said card.

1,751,107. WALL CABINET. AUGUST J. SMITH, Chicago, Ill. Filed Mar. 11, 1929. Serial No. 345,974. 1 Claim. (Cl. 312—112.)



In a wall cabinet having a casing for mounting in a recess in a wall of a room, a metal door plate hinged on the casing, and means on the door plate whereby a plate glass mirror may be slid into retained position on the door plate after the casing has been mounted in the wall, the said means including a three-sided frame of open-grooved channel members secured along the lower and the vertical marginal portions of the door plate.

1,751,108. TRAVERSING-ROLL MOUNTING. JOHN W. SMITH, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1926. Serial No. 84,594. 5 Claims. (Cl. 80—16.)



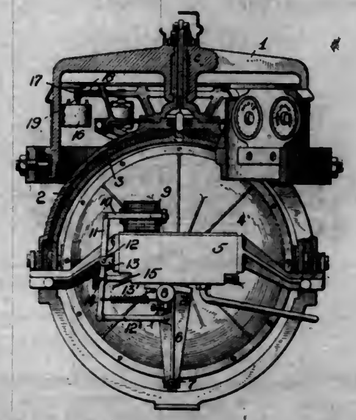
1. In a roll mounting, a cantilever spindle having an enlarged projecting end portion provided with peripheral and radial seating surfaces, a demountable roll having complemental surfaces coacting with said seating surfaces on the spindle, and a unitary element having a peripheral flange for engagement with the inner portion of the roll to clamp it on the spindle.

1,751,109. PAVEMENT. RUSSELL H. SMITH, Brookfield, Mass. Filed July 17, 1925. Serial No. 44,240. 1 Claim. (Cl. 94—12.)



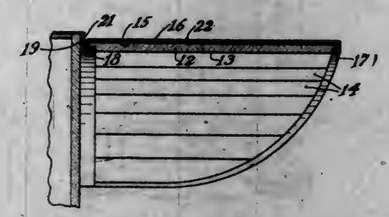
A paving block, of resilient moldable and vulcanizable material, provided on its under side with recesses for the reception of wet unset concrete foundation material to enter said recesses to lock said block to the foundation, said block having, embedded and vulcanized in its body, two crossing sets of anchoring and reinforcing wires having inclined downwardly-turned and then inwardly-turned projecting parts to enter the wet, unset foundation material, to assist in binding said block to said foundation, said inwardly turned parts being at some distance below the lower surface of said block, and each being of a length approximately equal to half the length of said block.

1,751,110. CHANGE OF COURSE DETECTOR FOR COMPASSES. ERIC C. SPARLING, Garden City, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 24, 1925, Serial No. 77,451. Renewed Aug. 8, 1929. 10 Claims. (Cl. 33—226.)



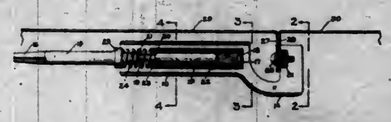
10. In combination with a master gyro compass for a dirigible craft, said compass having damping means, means for preventing the damping error due to turning of the craft, said last-named means including a two-part device for actuating said first-named means, one of said parts being in direct operating connection with said master compass and a friction drag device between said parts whereby the other of said parts is constrained to follow said first part.

1,751,111. HEADLIGHT VISOR. JAMES A. STEELE and JOSEPH D. BRANDES, Birmingham, Ala. Filed Aug. 23, 1928. Serial No. 301,572. 6 Claims. (Cl. 240—48.4.)



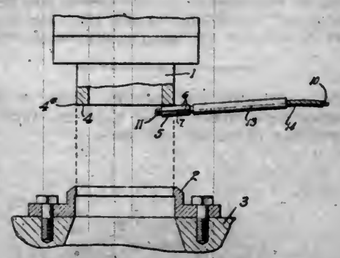
1. A headlight visor comprising glass molded to provide a series of forwardly extending prisms, and a reflective backing for the prisms, said prisms being so arranged that the light passing therethrough from the headlight is refracted downwardly from the visor.

1,751,112. SCREW DRIVER AND NUT HOLDER. WILLIAM STEVER, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 15, 1926. Serial No. 94,651. 2 Claims. (Cl. 81—55.)



1. In an article of the class described, a driving shaft adapted to engage and rotate a screw, an element mounted on said driving means adapted to engage said screw and guide said driving means into central engagement therewith, a housing receiving and guiding said guiding element for free longitudinal movement therein, a device on said housing adapted to prevent the rotation of the nut while said driving means is operated to thread the screw therethrough, said housing adapted to be grasped by the hand for manipulation, and a manipulating shank on the shaft.

1,751,113. PUNCH-SHARPENING DEVICE. SWAN N. TEVANDER, Maywood, Ill. Filed Nov. 22, 1928. Serial No. 321,251. 6 Claims. (Cl. 76—89.2.)



1. In a tool for the purpose indicated, a rotary member of non-circular cross section, a support adapted for directing said member against the cutting edge of a punch or like part and means for imparting rotary motion to said member independently of its contact with such part for causing upsetting of said cutting edge of the part.

1,751,114. LUBRICATING DEVICE. AXEL M. WALSTROM, Minneapolis, Minn. Filed Feb. 28, 1929. Serial No. 342,058. 2 Claims. (Cl. 221—47.4.)

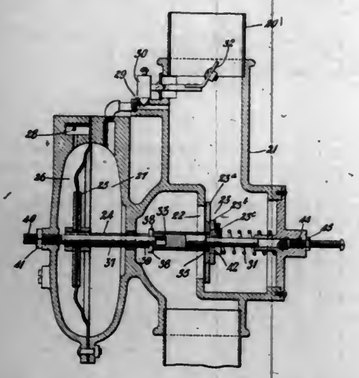


1. A high pressure grease gun provided with a discharge nozzle, a reversible mouthpiece of yielding material projecting from the front end of said nozzle, a central orifice extending through said mouthpiece, and a projecting pilot tube secured in one end of said orifice, substantially as described.

1,751,115. PNEUMATIC-DISPATCH-TUBE SYSTEM. EDMUND WEIGELS, Bergenfield, N. J., assignor to G. & G. Atlas Systems, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 9, 1924. Serial No. 754,698. 3 Claims. (Cl. 243—15.)

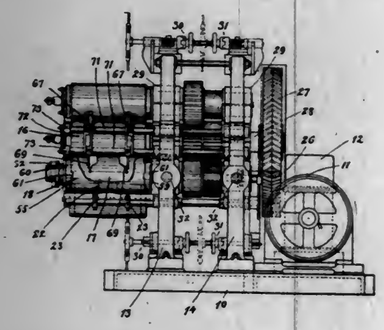
1. Power control apparatus for a pneumatic dispatch system of the vacuum minimum flow type comprising a transmission tube, a pneumatic exposed on one side to the

air pressure in said tube, a stem connected to said pneumatic for movement thereby, a rod slidably mounted in the stem and provided with a projection extending through



a slot in said stem, and a valve for controlling carrier impelling air flow through the tube, said valve comprising an element operated directly by said stem, and an element operated by said stem through the medium of said rod.

1,751,116. RUBBER CALENDER. PARK E. WELTON, Cuyahoga Falls, Ohio. Filed Sept. 22, 1928. Serial No. 307,765. 15 Claims. (Cl. 18—2.)



2. In a calender, a pair of roll-structures adapted to work a body of rubber between them, one of said structures including an overhanging shaft journaled at one side only of the working zone; and a profile shell detachably mounted on said shaft and removable endwise therefrom, said shell having a circumferential groove for imparting a predetermined cross-sectional shape to the rubber issuing from between the rolls.

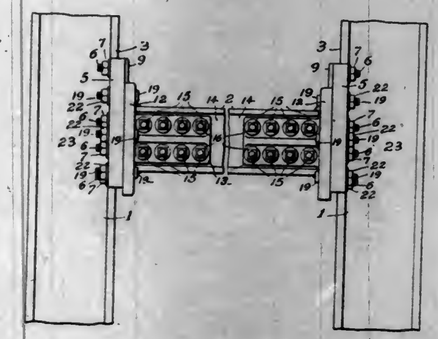
9. In a calender, the combination of an overhanging shaft, a sleeve forming a chamber with said shaft, means for supplying a temperature-regulating fluid to said chamber, an external body shell, and means for detachably wedging said shell on said sleeve.

14. In a calender, the combination of an overhanging shaft having a shell support, an exterior body shell, a longitudinally-split wedging sleeve interposed between said shell and support, a sliding abutment for forcing said shell and sleeve inwardly over said support to secure them on the shaft, and longitudinal adjusting means between said abutment and sleeve.

1,751,117. MANUFACTURE OF COMBUSTIBLE GAS CONTAINING HYDROGEN AND CARBON MONOXIDE. GUSTAV WIETZEL, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 17, 1925, Serial No. 57,041, and in Germany Dec. 1, 1922. 4 Claims. (Cl. 48—206.)

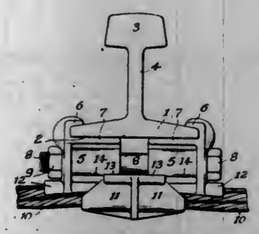
2. An exothermic process of manufacturing gases of high calorific and industrial value and rich in hydrogen and carbon monoxide, which comprises gasifying pulverulent solid fuel in a continuous process with the aid of a gas containing a higher percentage of free oxygen than atmospheric air.

1,751,118. ELECTRIC RAILWAY EQUIPMENT. ROLLAND G. WILLIAMS, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a Corporation of Connecticut. Filed Mar. 8, 1929. Serial No. 345,540. 4 Claims. (Cl. 189—22.)



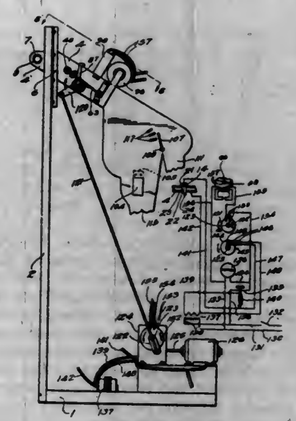
1. A support for electric railway equipment, comprising opposite poles having fixtures adjustably secured thereto, cross beams having fixtures secured across their ends, both of said fixtures formed with parts adapted to interengage at different elevations, and means for adjustably securing these fixtures together.

1,751,119. HIGHWAY-GUARD-FENCE FIXTURE. ROLLAND G. WILLIAMS, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a Corporation of Connecticut. Filed May 18, 1929. Serial No. 364,074. 2 Claims. (Cl. 248—32.)



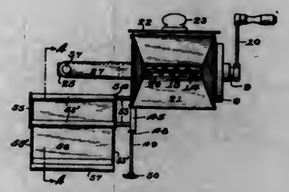
1. The hereindescribed highway guard fence fixture, comprising a post, vise members including a screw bolt for securing the members to the post, a cable and a stirrup having inclined parts that are slidably supported from said members, said stirrup and members having complementary parts with inclined faces that embrace the cable, whereby when said bolt is tightened said members and stirrup will be clamped against the cable in inclined planes.

1,751,120. METHOD AND APPARATUS FOR SELECTING METAL CHECKS. HUGH E. WURZBACH and LESLIE H. WADSWORTH, Magna, Utah, assignors to Selector Corporation, Salt Lake City, Utah, a Corporation of Utah. Filed July 28, 1928. Serial No. 296,067. 9 Claims. (Cl. 194—99.)



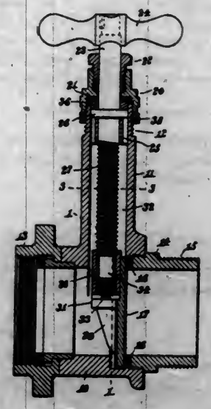
2. An apparatus for selecting metal checks comprising means for arresting a check in a certain position, means for gauging the average thickness of a check while in such position, means dependent upon the operation of said gauging means to determine the time of release of the check from such position dependent upon whether said check exceeds or falls below a certain average thickness, and means for selectively separating checks in accordance with the time of release thereof from said position.

1,751,121. CIGARETTE-MAKING MACHINE. MAURICE ALLAND, Atlantic City, N. J. Filed Jan. 8, 1929. Serial No. 331,071. 3 Claims. (Cl. 131—5.)



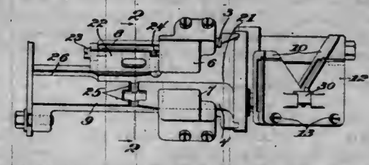
2. The combination of a cylinder, adapted to be surrounded by a cigarette tube, a support for said cylinder having parallel tracks, and a member having a wall in normal alignment with said cylinder and carried by said tracks, and slidable laterally so as to withdraw said wall from its normal position and permit the positioning of an empty tube.

1,751,122. VALVE. JOHN J. BARKER, Allston, Mass. Filed May 16, 1928. Serial No. 278,157. 5 Claims. (Cl. 251—57.)



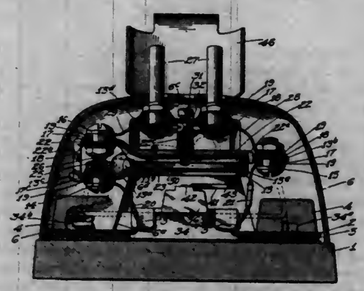
1. The combination of a valve casing provided with a valve seat; a gate reciprocable transversely of said seat; gate-moving means adapted to be disconnected from said gate when said gate is in closed position; and means for connecting said gate and moving means preparatory to moving the gate into open position.

1,751,123. ATTACHMENT OF BINDING AND LIKE STRIPS TO ARTICLES. ARTHUR BATES and FRED RICKS, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 12, 1925, Serial No. 29,735, and in Great Britain June 25, 1924. 8 Claims. (Cl. 112—137.)



1. In a machine for sewing bags or like articles, means for supporting the work with adjacent faces at an inclination to and intersecting the needle path, and means for guiding an edge binding strip across the needle path in position to be sewed to both of said faces.

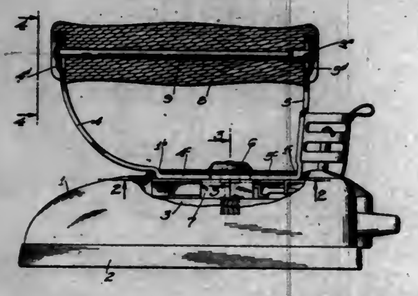
1,751,124. ELECTRIC FLATIRON. MARTIN C. BERSTED, San Diego, Calif. Filed Feb. 16, 1923. Serial No. 619,386. 5 Claims. (Cl. 200—137.)



1. In a heating apparatus, a contact making and breaking means, including a support, a single freely movable

plate, capable of being distorted by heat, loosely mounted on and encircled by said support, an arm secured at one end, positioned contiguous to said plate, a screw mounted in said arm, adapted to be engaged by said plate, a contact member mounted in said support and another contact member mounted in said arm, adapted to engage said first mentioned contact member, and lever means secured to said adjusting screw for adjusting the latter.

1,751,125. FLATIRON CONSTRUCTION. MARTIN C. BERSTED, San Diego, Calif. Filed July 8, 1925. Serial No. 42,190. 5 Claims. (Cl. 68—26.)



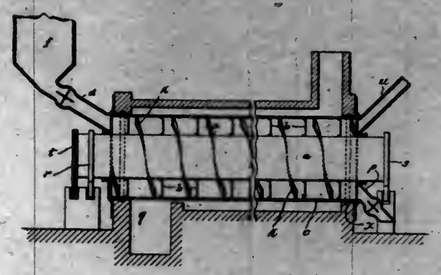
1. In a flat iron structure, including a hot plate, a casing provided at its upper portion with an inverted, upwardly extending channel portion, a handle, a pair of handle supporting straps of substantially the width of said channel, the one end portions of said straps being connected to opposite ends of said handle, the other end portions of said straps extending into said casing and lengthwise within said channel with their ends in abutment therein, the lower surface of said end portions lying substantially flush with the inner surface of said casing and in equal spaced relation with the upper surface of said hot plate, and unitary means for securing said members in and to said casing.

1,751,126. ADJUSTABLE FIXTURE FOR WINDOW-SHADE, CURTAIN, AND DRAPERY SUPPORTS. CHARLES A. BUNKER, Kansas City, Mo., assignor to Bunker-Clancey Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 3, 1927. Serial No. 223,639. 16 Claims. (Cl. 156—24.)



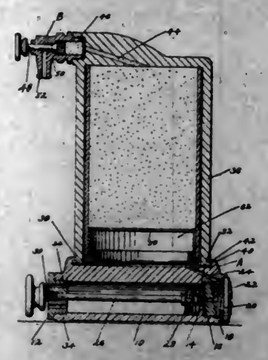
1. In an appliance of the character described, the combination of an extensible transverse member, gripping devices at opposite ends thereof provided with transverse slots and with outwardly-projecting compressible blocks, channelled brackets secured to the ends of the transverse member and fitting astride the gripping devices for preventing transverse movement thereof and transmitting outward pressure thereon from the transverse members to compress said blocks against the inner faces of the opposite sides of a window casing, said brackets having vertical slots in their sides having offsetting notches, and angle brackets fitting against the room faces of the sides of the window casing and extending through said vertical slots of said brackets and provided with longitudinal ribs extending through the said offsetting notches and the slots of the respective gripping devices.

1,751,127. ROTARY RETORT, KILN, OR DRUM. GEORG CANTIENY, Berlin, Germany, assignor, by mesne assignments, to International Coal Carbonisation Company, a Corporation of Delaware. Filed Mar. 8, 1924, Serial No. 697,694, and in Germany Mar. 24, 1923. 3 Claims. (Cl. 202—136.)



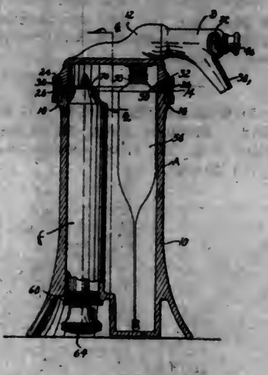
1. In an apparatus for distilling coal or analogous materials, the combination of a distillation chamber comprising a rotatable heat interchanging drum which constitutes an exterior drum of the distillation chamber, means for feeding the material to the interior of the distillation chamber, means for withdrawing from the distillation chamber vapors and hydro-carbons given off during the distillation process, means whereby the solid residuals may be removed from the apparatus, and an inner supporting frame for the distillation chamber, the construction being characterized in that said inner supporting frame projects beyond each end of the exterior drum ends and is provided with carrying running rings and also a driving wheel arranged for effecting the turning of the distillation chamber through the medium of the inner supporting frame and without the exertion of external force on the exterior drum for effecting the turning, and supporting members extending from the inner supporting frame to the exterior drum.

1,751,128. DISPENSING APPARATUS. HARRY J. COCKS, Des Moines, Iowa, assignor of one-half to Nathaniel C. Barnes, Des Moines, Iowa. Filed Oct. 29, 1927. Serial No. 229,593. 5 Claims. (Cl. 221—78.)



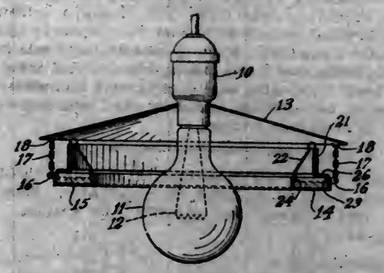
1. In a device of the character disclosed, a casing, a base separably connected with said casing, a pump in said base comprising a cylinder portion, a dividing wall in said cylinder portion having an opening therein, a piston, a stem for said piston, a handle thereon, a plug in one end of said cylinder, said stem and said plug having coacting threads, said stem having a pointed end adapted to coact with the opening in said partition, a plug in the other end of said cylinder, a check valve in said last mentioned plug and a passageway leading from said check valve to said casing.

1,751,129. DISPENSER. HARRY J. COCKS, Des Moines, Iowa, assignor of one-half to Nathaniel C. Barnes, Des Moines, Iowa. Filed May 5, 1928. Serial No. 275,488. 4 Claims. (Cl. 221—60.)



1. A dispenser of the character described, an air tight container, a tapered externally screw threaded adaptor mounted in said container, a tube having a neck of soft metal normally interiorly unthreaded but threaded by engagement with said adaptor for thereby retaining the tube in airtight connected relationship with said adaptor, means for placing the tube and its contents under pressure, and means to allow the contents of the tube to be discharged to atmosphere.

1,751,130. INSECT TRAP. WILLIAM F. CORNELIUS and HENRY JACOBS, Birmingham, Ala. Filed Aug. 25, 1928. Serial No. 302,040. 4 Claims. (Cl. 43—113.)



1. An insect trap adapted for association with an electric lamp, comprising a circular trough for an insect trapping liquid surrounding the lamp in spaced relation thereto, a translucent vertical baffle member removably supported above the trough between the sides thereof, and means for removably supporting the trough around the lamp with the light producing portion of the lamp below the trough.

1,751,131. SCAFFOLD RAISING AND LOWERING DEVICE. JAMES F. COSTELLO, San Francisco, Calif. Filed July 27, 1927. Serial No. 208,726. 7 Claims. (Cl. 304—18.)

1. In a device of the character described, an overhead outrigger support, a cable suspended therefrom, a scaffold, a guide member on the scaffold through which the cable extends, a plurality of interspaced collars secured on the cable, a carriage reciprocally mounted on the guide member, means for imparting a reciprocal movement to the carriage, a pawl on the carriage, said pawl engaging one of the collars on the cable and supporting the scaffold when

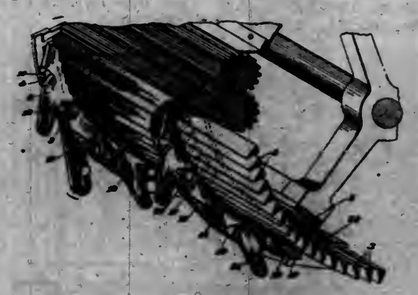


raising or lowering the same, and other means engaging the collars on the cable and supporting the scaffold when stationary.

1,751,132. PRODUCTION OF ALKALI FROM NATURAL BRINE. ROSS CUMMINGS, Berkeley, Calif., assignor to Robert D. Pike, Piedmont, Calif. Filed Dec. 14, 1927. Serial No. 239,892. 2 Claims. (Cl. 23—39.)

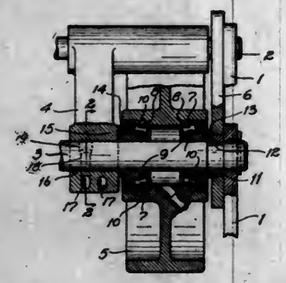
1. A process for treating natural brine of the described nature for recovery of its alkali content in commercially pure form, which consists of concentrating and crystallizing out at a temperature approximating the boiling point of water a portion of its contained alkali as sodium carbonate monohydrate until the mother liquor is a strongly concentrated solution with respect to both sodium carbonate and sodium chloride, and then carbonating the mother liquor for production of the major part of the remaining alkali as sodium bicarbonate.

1,751,133. COTTON-WORKING MACHINE. ROBERT S. CURLEY, Lowell, Mass., assignor to Kitson Machine Shop, Lowell, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1928. Serial No. 318,486. 6 Claims. (Cl. 19—95.)



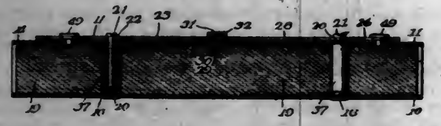
1. In a cotton cleaning machine having a beater, a grid positioned closely adjacent to said beater and comprising a series of bars, means for supporting the ends of said bars, and additional means for supporting said bars at points between their ends and connecting them rigidly together so that they cooperate to support each other, said additional means being supported solely by said bars.

1,751,134. BEARING CONSTRUCTION. GEORGE W. CURTIS, Milwaukee, Wis., assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Nov. 11, 1926. Serial No. 147,629. 9 Claims. (Cl. 308—207.)



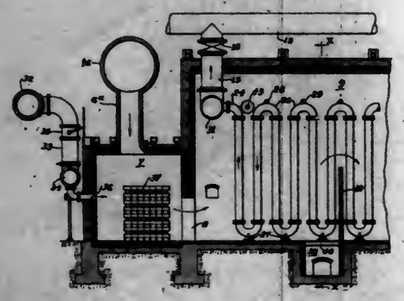
1. In a bearing construction, an axle having a smooth cylindrical surface, a bearing member thereon, a collar for holding said bearing member in place and angularly disposed pins extending through bores in said collar and engaging said axle along their sides.

1,751,135. LOOSE-LEAF BINDER. JAMES C. DAWSON, Webster Groves, Mo., assignor to Elma N. Dawson, Webster Groves, Mo. Filed Dec. 28, 1926. Serial No. 157,465. 2 Claims. (Cl. 129—13.)



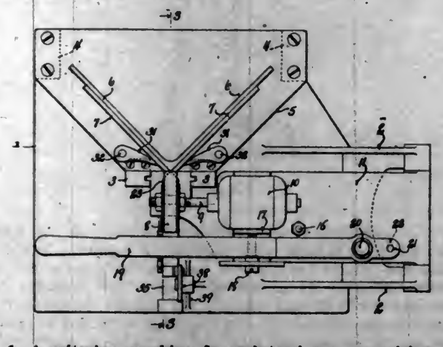
1. In a loose leaf binder, the combination of a lower binder bar, a post on said bar having means provided with a small head, an upper binder bar having a perforation permitting the head to pass through, a latch bar guide on the upper binder bar, means on the upper binder bar passing through said latch bar guide for attaching the latter thereto, and a latch bar slidably mounted on the guide bar and cooperating with the head of the post to lock the parts together and guided in its movement on the guide bar by said attaching means for the guide bar.

1,751,136. APPARATUS FOR HEATING THE AIR BLAST FOR FURNACES AND THE LIKE. JAMES P. DOVEL, Birmingham, Ala. Filed Dec. 16, 1926. Serial No. 155,277. 1 Claim. (Cl. 263—20.)



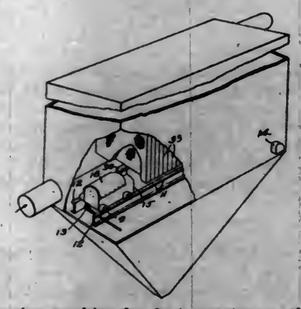
In combination, stoves having a main for the discharge of waste gases therefrom and a main for the supply of cold air thereto, a heat recuperating means having a combustion chamber provided with means to produce therein high temperatures by active combustion, means to commingle said waste gases with the high temperature gases of active combustion and pass the commingled gases through said combustion chamber and heat recuperating means, refractory elements in said combustion chamber interposed in the path of the waste gases and the gases of active combustion to more effectively mix the same before they pass into the heat recuperating means, and means to pass air through said heat recuperating means into said cold air main.

1,751,137. POWER-DRIVEN MITERING MACHINE FOR PRINTERS. EDMUND PAUL EHRLINGER, Janesville, Wis. Filed Feb. 27, 1928. Serial No. 257,526. 6 Claims. (Cl. 51—33.)



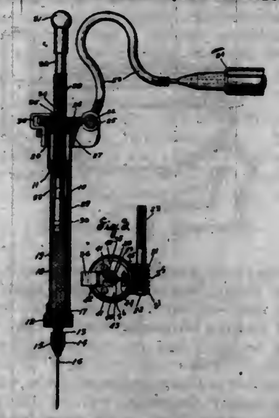
1. A mitering machine for printers' use comprising a table upon which slugs may be placed, a pair of guides set at ninety degrees to each other against which the slugs may bear, a pair of dogs for clamping said slugs against said guides, an adjustable stop positioned opposite the point of union of said guides and against which the ends of the slugs may be positioned, a slidable crosshead carrying said stop, a pivotally mounted frame operatively connected to said crosshead and adapted to move said crosshead downwardly when said frame is depressed, an electric motor carried by said frame and having a cylindrical grinding wheel adapted to remove the projecting ends of said slugs, a hand lever pivotally mounted upon said frame for depressing said frame, mechanism operated from said hand lever for rocking said dogs against said slugs, and mechanism for releasing said dogs when said frame completes its downward motion.

1,751,138. RAPPING MACHINE FOR DUST COLLECTORS. MICHAEL A. EIBEN, Cleveland, Ohio. Filed Oct. 29, 1927. Serial No. 229,673. 10 Claims. (Cl. 183—59.)



1. A rapping machine for dust arresters or the like having a series of screens, comprising a reciprocating carriage movable across the screens, a motor mounted on the carriage, a rapping device carried by the carriage, and a connecting mechanism to said device actuated by the motor to rap the screens.

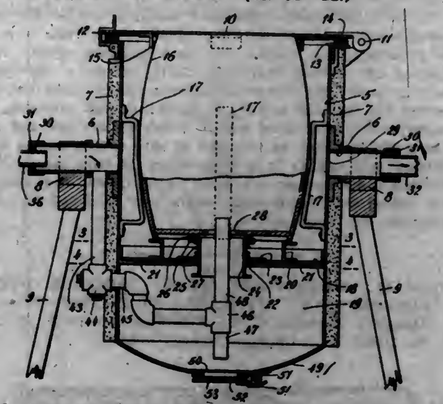
1,751,139. POWER DRIVE FOR SYRINGES. SAMUEL FEINSTEIN, New York, N. Y. Filed Mar. 26, 1928. Serial No. 264,782. 8 Claims. (Cl. 128—218.)



1. The combination with a syringe having a piston movable therein, of a screw stem on said piston, a worm wheel having an internal thread engaged on said stem, means for holding said wheel in operative position on the body of said syringe, means to prevent turning of said screw, said screw having reduced end portions limiting the operation of said wheel, a worm engaging the wheel, and power driven means to actuate said worm.

3. The combination with a syringe having a piston movable therein, of a screw stem on said piston, said stem being reduced in diameter at the ends of its screw threaded portion, means to prevent rotation of said stem, a wheel revoluble on the threaded portion of said stem, power means to rotate said wheel, a pair of half nuts pivoted on said wheel to engage the threads on said stem, a spring urging said nuts into engagement with said stem, and a manually operable cam for disengaging said nuts.

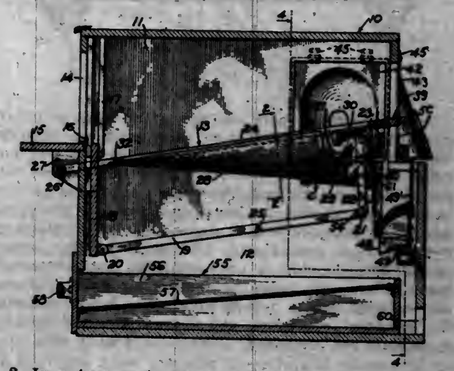
1,751,140. KEG-IMPREGNATING DEVICE, ETC. CROSBY FIELD, Yonkers, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 29, 1923. Serial No. 659,869. 14 Claims. (Cl. 91—11.)



2. A process for partially impregnating the walls of a container which comprises subjecting the container to a vacuum, filling the container with a liquid impregnating medium, allowing the medium to drain from the container to leave a thin film of the medium on the walls thereof and then breaking the vacuum while the material in the film is still liquid.

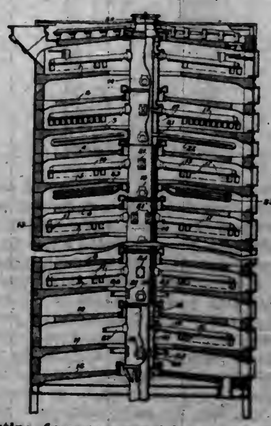
4. A process for partially impregnating the walls of a container which comprises placing the container in a closed chamber, exhausting the chamber and container, introducing molten paraffin into the container while maintaining the vacuum, allowing the excess paraffin to drain from the container into the chamber to leave a thin film of paraffin on the inner walls of the container and then breaking the vacuum to solidify this film.

1,751,141. TRAP NEST. ALBERT O. FORSTER and PERCY M. FORSTER, Berkeley, Calif., assignors of one-fourth to Thomas I. Forster and one-fourth to Tony L. Kelly, Berkeley, Calif. Filed June 30, 1924. Serial No. 723,099. 5 Claims. (Cl. 119—47.)



2. In a trap nest, structure comprising a rigid frame having spaced sides provided with inwardly extending supporting leaves, a cross bar connecting the sides of the frame and having a projecting flange arranged in spaced relation with the supporting leaves, a permanent nest section secured at its upper edges to the supporting leaves of the frame and spaced from the cross bar, and a removable nest section detachably interlocked at one end with the flanged portion of the cross bar and supported by said leaves and overlapped at the other end with the permanent nest section.

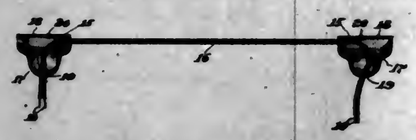
1,751,142. MULTIPLE HEARTH FURNACE. EDWARD J. FOWLER, deceased, Redwood City, Calif., by Edith Mary-Fowler, executrix, Redwood City, Calif., and DUDLEY BAIRD, Berkeley, Calif., assignors to Nichols Copper Company, New York, N. Y., a Corporation of New York. Filed Mar. 8, 1928. Serial No. 260,032. 10 Claims. (Cl. 263—26.)



1. A roasting furnace comprising a plurality of superposed hearths, a rotatable shaft extending vertically of the furnace and carrying rabbling means, and additional means also carried by said rotatable shaft at one or more or the intermediate hearths for absorbing heat therefrom,

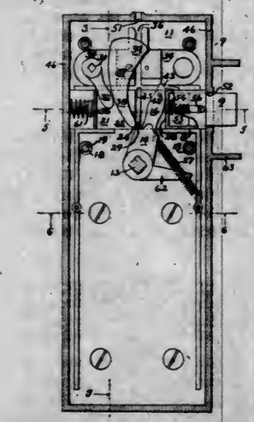
said additional means providing a greater heat absorbing capacity at said intermediate hearths than is provided in the other hearths.

1,751,143. ELECTRICAL CABLE. OTTO A. FREDRICKSON, Wethersfield, Conn., assignor to The Wiremold Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 15, 1926. Serial No. 154,912. 3 Claims. (Cl. 173—264.)



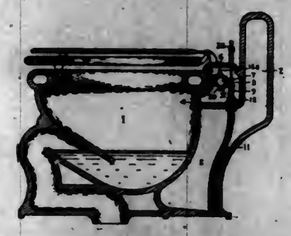
3. In combination with electrical outlet boxes or fixtures mounted in spaced relation to each other, an electrical cable extending between said boxes or fixtures and provided with a pair of conductor wires that extend into the boxes or fixtures and which wires are insulated from each other and from the boxes or fixtures, a filler strip laid in the valley formed at the one side of the insulated conductors, a ground wire laid in the valley formed at the opposite side of the conductors and electrically connected to said boxes or fixtures to form a ground therebetween, and a non-metallic outer jacket enclosing the insulated conductors and ground wire and adapted to insulate and electrically protect the ground wire.

1,751,144. COIN-CONTROLLED LOCK. ALPHONSE GABRIEL, Oakland, Calif. Filed June 11, 1926. Serial No. 115,223. 4 Claims. (Cl. 194—74.)



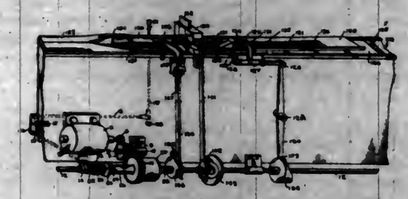
2. In a coin-controlled lock mechanism, a movable bolt, means operative to displace said bolt, bolt operating means independent of said first means and normally inoperative to displace said bolts, means utilizing a coin to operatively connect said second means with said bolt, means normally operative to retain a coin operatively disposed in the mechanism following a displacement of the bolt through the actuation of said second bolt operating means, means operable upon operative actuation of said first bolt displacing means to release the coin from the mechanism; and a pivoted guard member arranged to be engaged, moved and maintained in position to prevent the insertion of a coin into the mechanism, by a coin held by said retaining means, and means carried by the second bolt operating means for engaging and moving the guard member into operative position when the said second means is operated without a coin in the mechanism.

1,751,145. FLUSHING FOR WATER-CLOSETS. PAUL H. GEORGIOU, Bingham, Utah. Filed May 27, 1929. Serial No. 366,336. 4 Claims. (Cl. 4—13.)



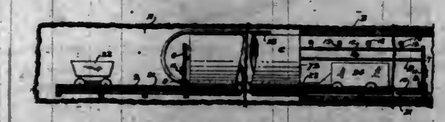
1. A water closet comprising a pneumatic compression reservoir for storing water to flush the bowl, a pipe connecting the reservoir with the rim of the bowl for conducting the flushing water thereinto, a valve in said pipe between the reservoir and the rim of the bowl, a water compartment in which said valve is located provided with overflow and drainage openings and having a capacity sufficient to supply the water seal for the bowl, means adapted to be manipulated by the user for opening said valve and means associated with the valve for filling said compartment when the valve is opened for flushing the bowl.

1,751,146. MATCHMAKING MACHINE. LEO GREENBAUM, Far Rockaway, EDWARD VAN HOOFSTADT, Oceanside, and CHARLES GUSTAVSON, Brooklyn, N. Y., assignors, by mesne assignments, to Lion Match Company, Inc., a Corporation of New York. Filed Sept. 4, 1928. Serial No. 660,781. 31 Claims. (Cl. 93—7.)



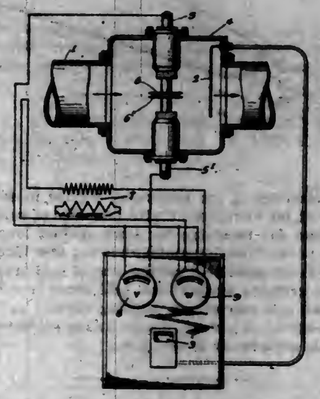
1. In a match book forming machine, means for intermittently feeding a strip of paper stock from a roll in predetermined lengths into said machine, means for cutting off sections thereof to form covers, a conveyor having separating members between which said cut-off covers are fed, and means for operating said conveyor, a superposed chute along which match splints are fed in the same direction as the feed of said covers, means for cutting said splints in predetermined lengths, means for placing same successively upon said covers, and means for thereafter folding said covers over said splints and securing the same together.

1,751,147. METHOD OF LINING TUNNELS WITH CONCRETE AND APPARATUS THEREFOR. ROY C. HACKLEY, Berkeley, Calif. Filed Mar. 11, 1929. Serial No. 346,118. 5 Claims. (Cl. 25—131.5.)



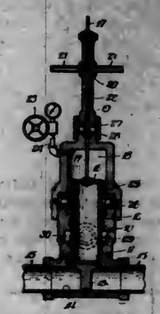
5. An apparatus for lining tunnels with concrete comprising an elongated carriage, a pair of longitudinally separated trackways within the tunnel, one track supporting the forward end and the other track supporting the rear end of a carriage, a roller track on the carriage, a form supported by the roller track, said form completely surrounding the roller track and the carriage, said form and carriage having a central unobstructed passage formed therethrough, and a second trackway extending through the tunnel, the carriage and the form.

1,751,148. APPARATUS FOR CRACKING OILS. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 28, 1925. Serial No. 53,032. 2 Claims. (Cl. 196—137.)



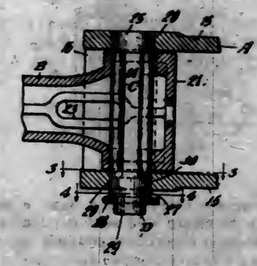
1. An apparatus for measuring the free carbon content of oil in a cracking apparatus which comprises electrodes positioned within the cracking apparatus and submerged in the oil, said electrodes being maintained at a difference of electrical potential, and means for measuring the electrical energy absorbed by the oil between the electrodes.

1,751,149. FILLING-MACHINE GOVERNOR. BERTIE S. HARRINGTON, Fort Worth, Tex. Filed July 5, 1927. Serial No. 203,807. 8 Claims. (Cl. 226—129.)



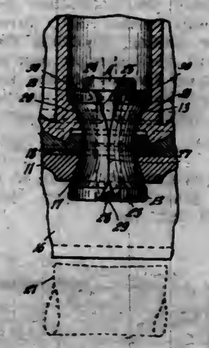
1. In a measuring and dispensing machine of the volumetric type, a measuring cylinder, means for conducting to the cylinder the substance to be measured, and means associated with said substance-conducting means and controlled by the pressure on the substance therein for automatically preventing the substance in the cylinder from leaving the same until after the pressure on the substance has reached a predetermined amount.

1,751,150. COUPLER AND YOKE CONNECTION. STACY B. HASSELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed June 18, 1928. Serial No. 286,175. 5 Claims. (Cl. 213—71.)



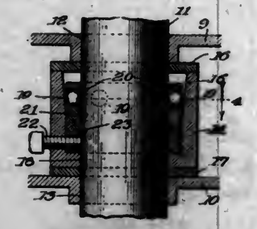
1. In a railway draft rigging, the combination with a coupler; of a yoke having spaced arms adapted to receive the butt end of the coupler shank therebetween; a connecting element extending through the shank and held against rotation with respect to said shank, said connecting element having a fixed head at one end and a detachable head at the other end secured thereto against relative rotation, the heads being swiveled in said top and bottom arms of the yoke and forming trunnion members of relatively large diameter for pivotally connecting the coupler shank to the yoke.

1,751,151. CAR CONSTRUCTION. STACY B. HASSELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 15, 1929. Serial No. 355,031. 8 Claims. (Cl. 105—200.)



1. In car construction, the combination with cooperating body and truck bolsters having aligned center pin receiving openings, the opening of the body bolster being of greatest cross sectional area at the upper end and the opening of the truck bolster being of greatest cross sectional area at the bottom end; of a locking center pin for connecting said bolsters, said pin being of greatest cross sectional area at the opposite ends thereof, said pin including outer sections adapted for rocking sliding movement on the walls of the center pin openings while being assembled and disassembled therewith; and a filler member interposed between said outer sections holding the same against sliding rocking movement and in interlocked relation with the body and truck bolsters.

1,751,152. SEAT STRUCTURE. EVAN C. HARTER, Sturgis, Mich. Filed Mar. 6, 1929. Serial No. 344,809. 8 Claims. (Cl. 155—94.)



1. A seat structure comprising a base, a seat-portion, means operating to clamp said seat portion in vertically adjusted position, and means for releasing said first-named means comprising a rotary member operating to effect such release when raised, and means operating upon rotation of said member to raise the latter.

1,751,153. GUIDE FOR LOCKS. ADALBERT HAUSER, New York, N. Y. Filed Oct. 16, 1928. Serial No. 312,841. 5 Claims. (Cl. 70—16.)



1. In a cylinder lock of the type comprising a cylinder housing and a cylinder rotatable therein having a key slot in the front thereof, the combination therewith of a key guide having a body member rigidly disposed with respect to said cylinder housing, straddling the lower part of said key slot with its lowermost part spaced below the lower end of the key slot whereby the usual cylinder lock key with its bevelled end and insertion limiting lug will readily be guided into the key slot.

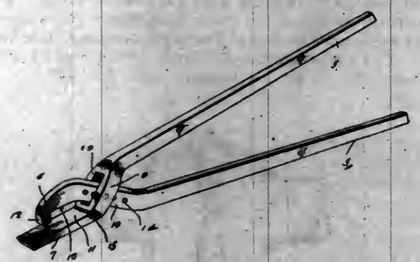
1,751,154. CAR COUPLING. FRANK W. HENRIKSON, Mulberry, Kans. Filed Feb. 24, 1927. Serial No. 170,543. 7 Claims. (Cl. 213—188.)



2. In a pin and link coupling, a link drawhead fastened to the end of the vehicle, a coupling link, a bumper, and devices connected to said bumper to project said link upon impact of another vehicle, said means including a rod and cam mechanism whereby the rate of said projection progressively decreases with increments of movement of said bumper.

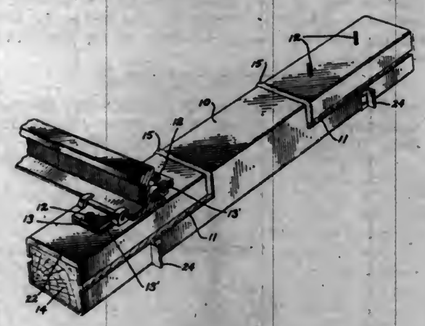
1,751,155. TONGS. WALTER G. HENY and ERNEST G. SCHUTZ, Elwood, Nebr. Filed July 12, 1927. Serial No. 205,109. 1 Claim. (Cl. 81—51.3.)

In a tool of the class described, a pair of jaws having handles formed at one end thereof, said jaws being offset longitudinally with respect to said handles, one of said jaws having its offset section provided with a longitudinally extending slotted opening adapted to receive the offset sections of said opposite jaw therein for the opening and closing movement of the jaws upon the operaiton of the handles and also providing a mounting for the longitudinal movement of the jaws with respect to each other, said other offset sections having a plurality of transversely



arranged openings, a pin removably carried in said openings adapted for engagement with one edge of said slotted offset section for retaining the jaws against longitudinal movement in one direction and permitting free longitudinal movement in an opposite direction, one of said jaws having a flattened gripping surface, and said other jaw having a hook shaped end providing a gripping surface at its inner edge and adapted to have its gripping area regulated by the longitudinal adjustment of said jaws.

1,751,156. RAILROAD TIE. WILLIAM R. HEWITT, New York, N. Y. Filed Dec. 29, 1928. Serial No. 329,138. 5 Claims. (Cl. 238—96.)

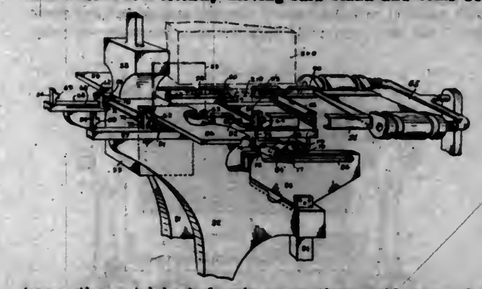


4. A railroad tie comprising a hollow metallic body member of rectangular cross section having cuts extending into the side walls thereof from each end, and means cooperating with said cuts adapted to render the upper portions of the ends of said tie resilient.

1,751,157. AUTOMATIC PACKAGING MACHINE. THOMAS A. HILL, Manhattan Beach, N. Y., assignor to Lion Match Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 8, 1924. Serial No. 730,829. 29 Claims. (Cl. 93—2.)

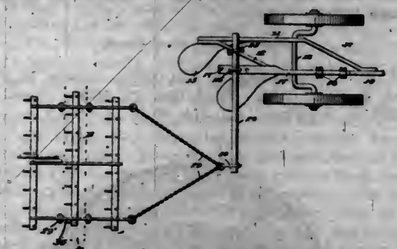
1. In a match-book making machine, means for supporting a superimposed cover blank and comb, means for centralizing said comb upon said blank, means for partly folding said blank around said comb, means for continuing the centralizing of said comb upon said blank while

the same is completely folded and secured thereupon, and means for intermittently moving said blank and comb be-



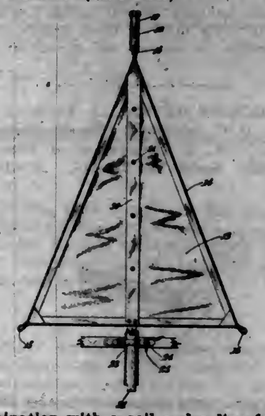
tween the match-book forming operations, said means for intermittently moving said blank and comb comprising reciprocating racks between which the same are engaged.

1,751,158. ATTACHMENT FOR HARROWS. HENRY JASS, Sabula, Iowa. Filed Aug. 18, 1928. Serial No. 300,526. 7 Claims. (Cl. 97—5.)



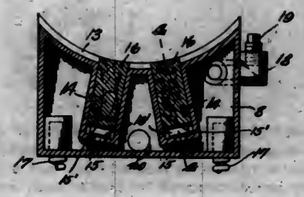
1. A harrow attachment for plows comprising a pliant one-piece bracket bent to form an angle and adapted to be secured to the frame of a plow with said angle portion free, means for adjusting the bracket relative to the frame to vary the elevation of the angle portion, a transverse bar arranged above the bracket and projecting beyond one side of the plow, and means for adjustably securing the transverse bar to the bracket at said angle portion.

1,751,159. MEANS FOR AND METHOD OF ESTABLISHING COMMUNICATION. HANS F. JORGENSEN, Brooklyn, N. Y.; Norman F. Jorgensen executor of said Hans F. Jorgensen, deceased. Filed May 25, 1926. Serial No. 111,499. 1 Claim. (Cl. 9—14.)



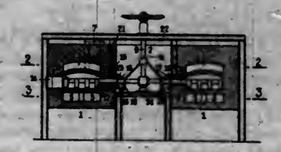
The combination with a sail and a line for raising the same, of means for holding said sail against a mast comprising a plurality of rings slidable on said mast, a plurality of eyelets riveted in said sail, and a line looped through each of said eyelets in such a manner as to encircle an individual ring with each loop, said second-mentioned line being secured to said first-mentioned line near the top of the sail.

1,751,160. DRIVING AND ENGINE-TRUCK BOX LUBRICATOR. GEORGE W. KELLER, Portsmouth, Ohio. Filed July 6, 1928. Serial No. 290,828. 1 Claim. (Cl. 308—88.)



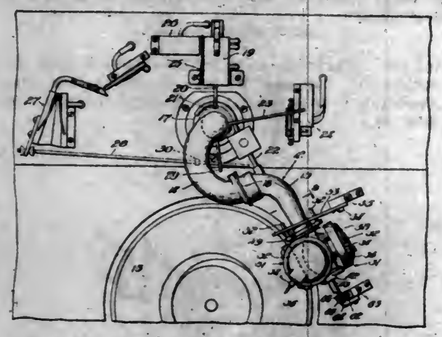
In a shaft lubricator, a reservoir having a curved upper surface to be fitted against a shaft, compartments formed throughout the length of the reservoir and having their upper ends open at the curved surfaces of the reservoir, the bottoms of the compartments being spaced from the bottom of the reservoir, the bottoms of the compartments having spaced openings disposed throughout the lengths of the compartments to permit oil to pass into the compartments, wicks in the compartments, plates fitted in the compartments and engaging the wicks, springs within the compartments and engaging the plates to force the wicks outwardly into engagement with a shaft, and said reservoir having an opening to permit oil to be poured into the reservoir.

1,751,161. CALCINING FURNACE AND METHOD OF OPERATING THE SAME. ERNST KLÖHN, Berlin-Wilmersdorf, Germany, assignor to the Firm Zahn & Co., G. m. b. H., Berlin, Germany. Filed Aug. 3, 1927, Serial No. 210,350, and in Germany Dec. 30, 1926. 6 Claims. (Cl. 23—277.)



1. A circular muffle calcining furnace, comprising an annular hearth having an inner circumferential wall formed with a continuous circumferential slot, heating means for said hearth, stirrer arms projecting through said annular slot from the median part of the furnace into the hearth, a ring carried by said stirrer arms in position for covering said slot, packing members fixed to said circumferential wall and cooperating with said ring for closing said slot, and means for rotating said stirrer arms.

1,751,162. TALKING MACHINE. AXEL F. LARSON, Chicago, Ill., assignor to Western Electric Piano Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1927. Serial No. 230,545. 32 Claims. (Cl. 274—24.)

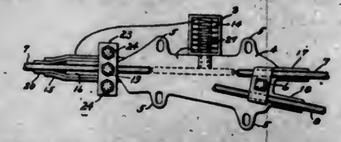


1. In a talking machine, the combination of a record-support, a tone-passage-equipped supporting member mounted for movement relative to said support, and a plurality of reproducer-devices mounted on said member and bodily movable into and out of operative position relative to the record and comprising substantially similar stylus holders.

1,751,163. METHOD OF MANUFACTURING CERAMIC MATERIALS, BUILDING ELEMENTS, AND THE LIKE, FROM MUD. ARTHUR LOESSIN, Berlin-Charlottenburg, Germany. Filed Sept. 20, 1926, Serial No. 136,734, and in Germany Oct. 1, 1925. 6 Claims. (Cl. 25—156.)

1. The method of manufacturing ceramic materials and articles from mud, comprising mixing the mud with a substance adapted to counteract the detrimental influence of impurities in, or constituents of, the mud and with the sand, subjecting the mixture to two preliminary burning stages with intermediate cooling, and finish-burning it.

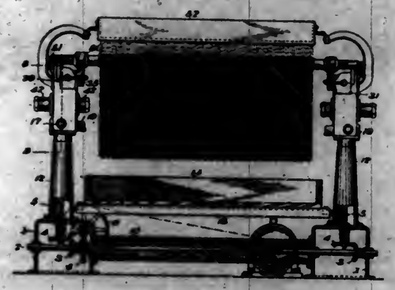
1,751,164. ELECTRICALLY-OPERATED SWITCH. SAMUEL S. MATTHES, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 18, 1927. Serial No. 176,351. 11 Claims. (Cl. 191—38.)



1. A switch operating system comprising a trolley wire, a trolley frog with a movable tongue and electrically operated means to move the tongue at the will of the motorman in one direction only, a contact section insulated from the trolley wire and frog except as connected by the electrically operated means, connections from the electrically operated means to the trolley wire and the said contact section whereby the movement of the tongue can be controlled by the motorman only when the current collector engages the said insulated contact section and the motorman operates his motor controller at such time with power "on" or power "off."

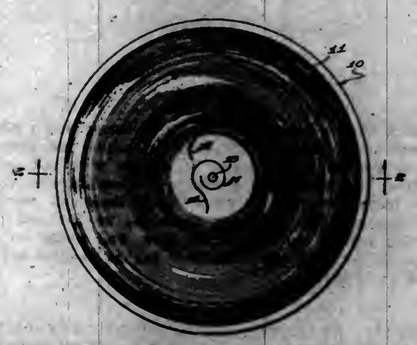
1,751,165. APPARATUS FOR CHEMICAL TREATMENT OF FIBROUS MATERIAL. WILLIAM W. MCELRATH, Roanoke, Va. Filed Nov. 9, 1927. Serial No. 232,126. 27 Claims. (Cl. 8—19.)

1. A machine for subjecting skeins of fibrous material to the action of liquid, and having skein supporting rods, parallel rails adapted to carry said rods, said rails having a forward and backward movement in combination with parallel rails having an upward and downward movement, the last said rails supporting a plurality of rotat-



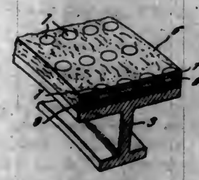
able rollers adapted to engage said rods for lifting them from said carrying rails, means for operating said rails and rollers, and means for synchronizing the movements of said rails whereby said rods are progressively moved through said machine.

1,751,166. PHONOGRAPH RECORD. ISIDORE E. NEPT, Los Angeles, Calif. Filed Dec. 23, 1926. Serial No. 156,718. 4 Claims. (Cl. 274—42.)



1. A phonograph record disk having an extension projecting inwardly from the inner extremity of the sound groove thereof to cause inward movement of the stylus of a phonograph, said disk being provided with a wholly independent outwardly directed inner groove the walls of which are adapted to engage the stylus and move it outwardly.

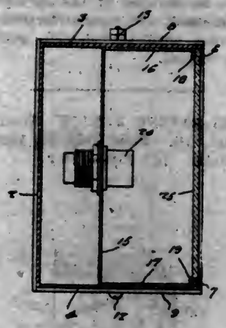
1,751,167. FRICTION MATERIAL. RAYMOND J. NORTON, Washington, D. C., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Feb. 27, 1929. Serial No. 343,117. 20 Claims. (Cl. 188—259.)



11. A friction material comprising a woven asbestos tape through which is dispersed an elastic gel.

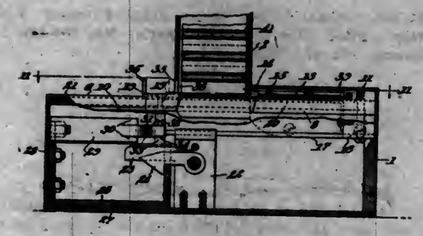
20. An auto-dehydratable friction material.

1,751,168. SIGNAL BOX. THOMAS O'DONNELL, Ironwood, Mich. Filed July 19, 1928. Serial No. 293,944. 2 Claims. (Cl. 40—132.)



1. In a vehicle direction signal, a casing including top and bottom sides, a connecting rear wall, removable end walls, means for securing the removable end walls on the casing, the forward edges of the top and bottom sides being formed with inwardly directed flanges, a unit removably arranged in the casing and including a rear wall, top and bottom sides, inwardly directed flanges formed on the forward edges of the top and bottom sides and being spaced with respect to the respective aforementioned flanges, vertical partitions dividing the unit into independent compartments that are open at their front sides, a lamp socket for each compartment, a glass panel covering the open front side of the casing, and the open front side of the respective compartments, said glass panels being maintained in position between the aforementioned flanges, the glass panel being provided with signalling indicia thereon in front of the respective compartments, and an attaching bracket for the casing.

1,751,169. VENDING MACHINE. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed June 23, 1927. Serial No. 200,935. 9 Claims. (Cl. 312—35.)



1. In a vending machine and the like provided with a hopper, a supplementary hopper, the said supplementary hopper being the original container of the articles to be vended, and means for ejecting said articles from said supplementary hopper.

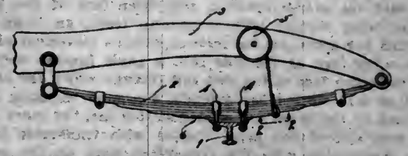
1,751,170. BOX. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a Corporation of Ohio. Filed Aug. 29, 1927. Serial No. 216,104. 5 Claims. (Cl. 312—35.)

1. An original container for salable units adapted for use in connection with a dispensing mechanism, the said container being in the shape of a box in which the salable units are adapted to be packed in an orderly manner and



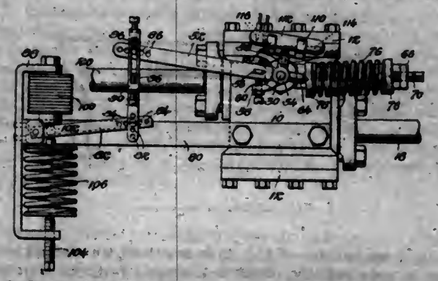
having a bottom provided with an aperture through which an ejector device is adapted to pass in order to discharge said units.

1,751,171. LEAF-SPRING STRUCTURE. JAMES S. REID, Cleveland, Ohio, assignor to The Newell Thompson Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926. Serial No. 134,067. 2 Claims. (Cl. 267—47.)



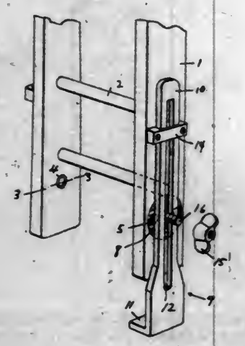
1. A spring and shock absorber mounting for a vehicle, comprising a shock absorber for attachment to the vehicle frame and having a movable actuating part, and a spring comprising a plurality of superposed leaves of various lengths with spaced members connecting said leaves and a lug secured to one of the lower-most leaves near the end thereof and spaced from said connecting members and attached to the actuating part of the shock absorber.

1,751,172. VALVE AND VALVE-OPERATING MECHANISM. GEORGE D. REINHARDT, Dallas, Tex. Filed Aug. 6, 1927. Serial No. 211,134. 3 Claims. (Cl. 236—48.)



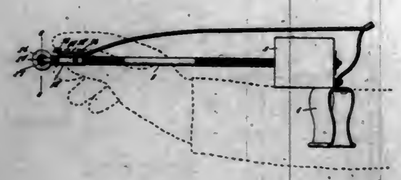
1. In mechanism of the class described, a shaft rotatable between two positions, a pin rigid with and extending radially with respect to said shaft, a spring support located in alinement with said pin when the latter is midway between its limits of movement as determined by the two positions of said shaft, a spring between said pin and said support whereby it is operable to hold said shaft in either of its two positions, a member movable with respect to said shaft, and a lost motion connection between said member and said shaft.

1,751,173. EXTENSIBLE LADDER FOOT. THOMAS G. RICE, Hammondsport, N. Y. Filed Mar. 30, 1928. Serial No. 265,876. 1 Claim. (Cl. 228—63.)



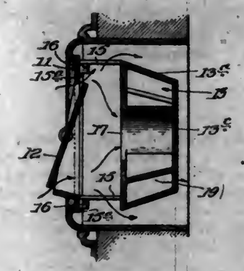
In an extensible foot for ladders, wherein one of the side rails of the ladder is formed with a transverse opening and a cutout portion in the outer face of the lower end thereof, a base plate for disposition in said cutout portion, a sleeve formed on the base plate for disposition in said transverse opening, the outer face of the base plate being formed with transverse teeth, an elongated slotted bar arranged for vertical slidable movement along the outer face of the side rail, a guide bracket secured on the outer face of the side rail through which the upper end of said slotted bar extends, a ground engaging foot formed on the lower end of said slotted bar, the inner face of said slotted bar being formed with transverse teeth for cooperation with the transverse teeth on the outer face of the base plate, a bolt extending through the sleeve and the slotted bar, and a nut threaded on the outer end of the bolt for engagement with the outer face of the bar to lock the bar in any vertically adjusted position.

1,751,174. CUTTING AND GRINDING MECHANISM. WARREN RICHARDS and EDWARD RICHARDS, Klamath Falls, Oreg. Filed June 6, 1929. Serial No. 368,830. 1 Claim. (Cl. 51—170.)



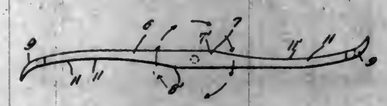
In a mechanism of the class described, an electric motor, a substantially inverted U-shaped resilient metallic clip for mounting the motor on the arm of an operator, a flexible shaft operatively connected with the motor, flexible sheathing about the flexible shaft, an elongated housing connected to the sheath, a shaft in the housing connected with the flexible shaft, a gear on the shaft in the housing, an ear projecting from the housing, a removable bracket mounted on the side of the housing, a shaft journaled between the ear and the bracket, and a gear on the last mentioned shaft meshing with the first mentioned gear, a spring contact, means for mounting the spring contact on the housing, and insulating it therefrom, a headed screw threaded in the housing and extending into a groove on the shaft in the housing in a manner to prevent longitudinal movement of said shaft therein, said head adapted to be engaged by the spring contact when the latter is depressed, and means electrically connecting the spring contact with the electric motor to control the energization thereof.

1,751,175. FUEL-SAVING DEVICE. WILLIAM E. ROTHERMEL, Chicago, Ill. Filed July 30, 1928. Serial No. 296,174. 1 Claim. (Cl. 110—175.)



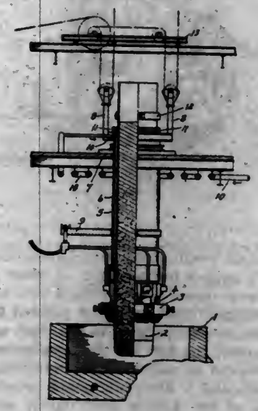
In combination with a fuel-feed passage of a furnace or the like and a door therefor provided with a damper, an air-heating casing, bar means connecting the door and casing and normally disposing the latter in said passage in spaced relation to the door and to the walls of the passage, said casing having its marginal wall inwardly tapering and also having a centrally arranged air inlet opening facing said door, whereby the air passing the damper will partly pass around said marginal wall and will partly enter said opening, and the casing adjacent its inner lower corner having air outlet openings, and baffle means in said casing providing a tortuous passage to be followed by the air in its travel from said inlet means to said outlet means.

1,751,176. ROAD SIGN. OSCAR ALBIN RYSTROM, York, Nebr. Filed July 21, 1927. Serial No. 207,489. 2 Claims. (Cl. 40—39.)



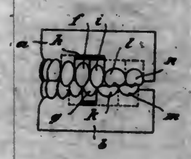
1. In a revolving sign of the character described, an elongated and narrow board member, the center of said member being of enlarged thickness, the portions of the member extending outwardly from the enlarged portion being of curvilinear formation, the curved portions being curved in inverse directions from the enlarged portion, the innermost point of each curved portion being located at a point substantially one-fourth of the distance inwardly from the outer end of the member, and on an extension of the longitudinal axis of the enlarged portion, and a support, upon which the board member is adapted to be pivotally mounted at its enlarged portion.

1,751,177. PROCESS IN THE MANUFACTURE OF SELF-BAKING ELECTRODES. MATHIAS OVROM SEM, Buffalo, N. Y., and CARL WILHELM SÖDERBERG, Oslo, Norway, assignors to Det Norske Aktieselskab for Elektrokemisk Industri of Norway, Oslo, Norway. Filed Dec. 6, 1928, Serial No. 324,171, and in Germany Sept. 26, 1928. 7 Claims. (Cl. 266—1.5.)



1. The process of forming an electrode baked while in use in the electric furnace and including electrode paste and an enclosing mantle comprising filling in paste at temperatures below the melting point of the binder material, applying heat to the filled in paste and causing the paste to flow and form a solid electrode.

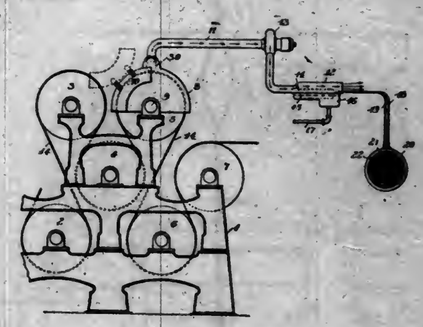
1,751,178. PROCESS FOR THE PRODUCTION OF ARTIFICIAL TEETH. KURT TARSCHNER, Duren, Germany. Filed June 14, 1927, Serial No. 198,799, and in Germany Jan. 22, 1927. 5 Claims. (Cl. 32—9.)



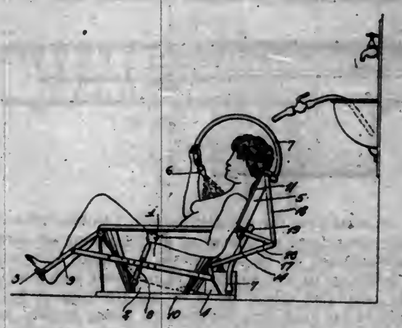
1. A method of producing artificial teeth consisting in moulding models of the upper and lower jaws from natural teeth in a hard material, removing from one of the models a tooth to be replaced, replacing said tooth by an artificial anatomical tooth of an easily grindable material imitating with said models the movements of the jaws in the natural biting, chewing and griding motions and making an artificial tooth of hard material from the tooth thus shaped.

1,751,179. MOISTURE-CONTENT TESTER FOR PAPER-MAKING MACHINES. CHARLES A. UPSON, Lockport, N. Y., assignor of one-half to W. Harrison Upson, Lockport, N. Y. Filed Aug. 26, 1926. Serial No. 131,778. 4 Claims. (Cl. 34—48.)

1. In a paper making machine, the combination with a heated drier over which the paper web continuously travels, of a hood extending transversely widthwise of the web from side to side and adapted to trap the vapor issuing from a complete section of the web while on the roll, and a psychrometer embodying wet and dry bulbs exposed to the action of such vapor.



1,751,180. COMBINED SITZ BATH. JOHANN WENISCHNIOMR, Gras-Eggenberg, Austria. Filed Nov. 20, 1928, Serial No. 320,562, and in Austria Nov. 26, 1927. 6 Claims. (Cl. 4—166.)



1. Collapsible portable bathing device comprising in combination a sitz-bath, a hollow back-rest movably secured to the latter so as to be adjusted and fixed in any desired position, a water supply device arranged outside the sitz-bath, means connecting the water supply device to the sitz-bath, means for operating the former arranged outside the sitz-bath, an adjustable water conduit passing from the water supply device to the hollow back-rest, a tube leading away from the latter, and a rose secured to the end of the said tube.

1,751,181. TOOL FOR REMOVING GLASS AND OTHER OBJECTS FROM AUTOMOBILES. CLARENCE OSCAR WILLIAMS, Evansville, Ind. Filed Jan. 26, 1927. Serial No. 163,680. 2 Claims. (Cl. 294—86.)

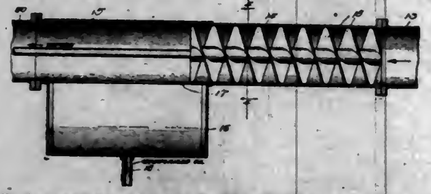
1. A tool adapted for grasping broken pieces of glass and withdrawing them from a limited space, comprising a pair of elongated contacting flat metal resilient strips free from each other at one end and constituting spring jaws thereat which can spread apart to grasp broken pieces of glass, said strips being riveted together at a plurality of points to afford the requisite stiffness with resiliency to enable the tool to be manipulated and yet to permit it to yield when necessary during use in a limited space, the end

parts of said strips at the other end of the tool being spread or offset, and a foldable hook having one end pivoted to the



said other end parts of said strips and adapted to be folded between them or to be extended in continuation of the strips for use.

1,751,182. ART OF CONTINUOUS DISTILLATION OF HEAVY HYDROCARBON OILS. ROBERT E. WILSON, Chicago, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Apr. 3, 1925. Serial No. 20,423. 12 Claims. (Cl. 196—85.)

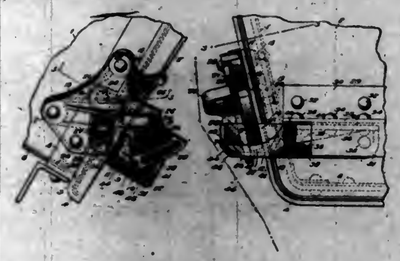


5. An apparatus for the distillation of hydrocarbon oils, a mixer comprising an expanding nozzle, means for supplying unvaporized oil to said nozzle, a conduit into which said nozzle opens, the nozzle being provided with openings on its expanding side directed in the direction of flow of oil, means for supplying superheated steam to said openings, the steam being expanded on passage through the openings and immediately intermingling with the oil and traversing the conduit, means at the end of the conduit for imparting a rapid whirling movement to the mixture of oil and vapors, thereby throwing out unvaporized oil particles, and means for collecting the unvaporized oil.

12. In the distillation of hydrocarbon oils, subjecting a mixture of hydrocarbon oil and steam in substantial thermal equilibrium to a whirling movement while in continuous flow at a rate of 200 to 500 feet per second, thereby throwing out unvaporized oil in the form of a layer, and substantially immediately separating out such layer of unvaporized oil.

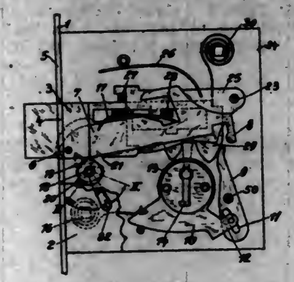
1,751,183. DOOR MECHANISM FOR RAILWAY CARS. WILLIAM E. WINE, Toledo, Ohio, and BYRES W. KADEL, Baltimore, Md. Filed May 26, 1926. Serial No. 111,741. 26 Claims. (Cl. 105—308.)

1. In car door mechanism, the combination with a car body having a hopper provided with an offset portion adjacent its discharge opening, of a hinged door for closing the discharge opening of said hopper, and means operatively interposed between the car body and the door for retaining the latter in closed position, said means including an arm secured to the door and projecting outwardly beyond the side of the hopper, a pivoted hook for cooperating with said arm, and means for mounting the hook upon the car body, said last named means including a filler interposed between the hook and the side of the hopper and engaging the said offset portion of the hopper, for transmitting directly to the latter a portion of the force imparted to the hook when supporting the door in closed position.



2. In car door mechanism, the combination with a car body having a hopper formed with an offset portion adjacent its discharge opening, of a hinged door for closing the discharge opening of said hopper, a pivoted hook mounted on the hopper, an arm secured to the door and projecting outwardly beyond the side of the hopper, said hook and arm being adapted to cooperate for retaining the door in closed position, and a filler interposed between said hook and the side of the hopper and rigidly secured to the latter, the hook being pivotally secured to the filler and the latter being provided with projections adapted to engage the said offset portion of the hopper, for transmitting directly to the latter a portion of the force imparted to the hook when supporting the door in closed position.

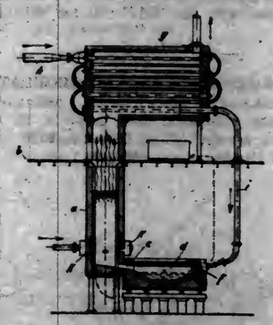
1,751,184. DOOR LOCK. ADOLF WODARRA, Berlin-Lankwitz, Germany. Filed Dec. 24, 1926, Serial No. 156,916, and in Germany Dec. 24, 1925. 3 Claims. (Cl. 70—91.)



1. A door-lock including a cam having a keyhole extending therethrough, said cam being adapted as a guiding member for the keybit, and having a key-shield upon the front-surface of said cam, the bore of the keyhole for the shaft of the key being mounted eccentrically with respect to the axis of said cam, and a safety device including a cam-shaft adjustable from the inside of the lock, a bolt and spring pressed talon thereon, said cam-shaft having cams adapted to move the spring pressed talon on the bolt.

1,751,185. SMELTING PROCESS. FRITZ WÜST, Duesseldorf, Germany. Filed Oct. 18, 1927, Serial No. 227,029, and in Germany Aug. 6, 1926. 2 Claims. (Cl. 75—27.)

1. Method of smelting low carbon cast iron having a definite carbon content in a combined cupola and reverberatory furnace, which consists in melting scrap iron, with carbonaceous material in the cupola furnace by flue gases drawn from the reverberatory furnace and running the melted iron into the reverberatory furnace and subjecting



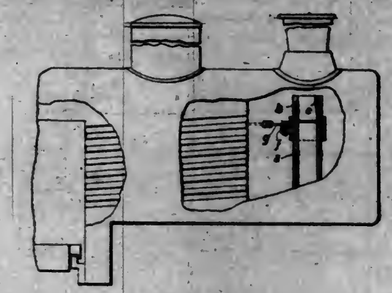
the same to greater heat therein, the carbon content being regulated by measurment of quantity of coke in the cupola furnace.

1,751,186. SAFETY BUMPER-ACTUATED CONTROL FOR VEHICLES. WILLIAM ADAM, Staunton, Ill. Filed Aug. 15, 1928. Serial No. 299,814. 1 Claim. (Cl. 180—83.)



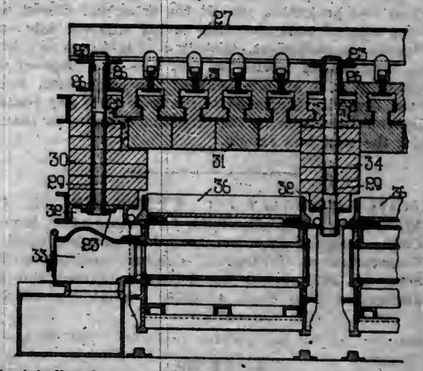
A bumper operated switch comprising a pair of bars, one of said bars being secured rigidly to a stationary structure, yieldable means for mounting the other bar in substantially parallel relation with respect to the rigidly secured bar, said last mentioned bar being provided with an opening, a pivotally mounted rack bar on the yieldably mounted bar for disposition through said opening in the rigidly secured bar, and switch means interposed between the said bars.

1,751,187. LOCOMOTIVE-ENGINE-DRAFT REGULATOR. KARL ALTE, Dortmund, Germany. Filed Aug. 16, 1927, Serial No. 213,371, and in Germany June 25, 1927. 5 Claims. (Cl. 230—99.)



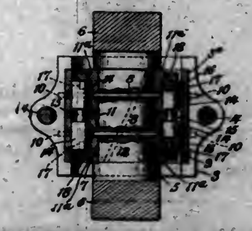
1. Locomotive engine draft in connection with a blast pipe, through which the exhaust passes, disposed below the chimney, and having a tubular top rotatably disposed on its outlet, the inner wall of the top being provided with a throttling enlargement having an increasing section in upward direction.

1,751,188. FURNACE CONSTRUCTION. ALFRED WILLIAM BENNIS, Bolton, England. Filed Nov. 2, 1925, Serial No. 66,423, and in Great Britain Nov. 10, 1924. 4 Claims. (Cl. 110—1.)



1. A boiler furnace comprising an overhead frame work, tension bars depending from said frame work, walls solely supported upon said tension bars, protective tubes around said tension bars, and means whereby air may be passed through the space between said tubes and said bars.

1,751,189. ROLLER BEARING. WILLIAM F. BERGER and JOHN A. BERGER, Canton, Ohio. Filed Apr. 10, 1928. Serial No. 268,895. 2 Claims. (Cl. 308—179.)



1. In an anti-friction bearing for cranks and connecting rods, a two-part bearing, each part formed with an internal recess to receive a cup-shaped segmental member seated in said recesses, having their ends adjacent to the end walls of the recesses, and keyed against rotation, a crank-pin, segmental bushings keyed to the crank-pin to rotate therewith, spaced from the segmental cup-shaped members and formed externally with end flanges and a centrally disposed flange, twin-rollers disposed between the segmental bushings and cup-shaped members in rolling contact with the bushings and cup-shaped members, the ends of the rollers being disposed for engagement with side faces of the end and centrally disposed flanges of the bushing, and rings upon which the rollers are rotatably mounted, said rings being tied one to the other and disposed to contact with the peripheral faces of the end flanges of the segmental bushings.

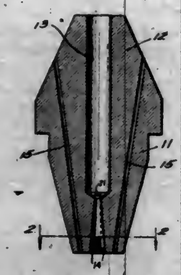
1,751,190. JACK FOR FENCE-WIRE STRETCHERS. JAMES M. BOYER, Urbana, Ill. Filed July 2, 1928. Serial No. 289,732. 1 Claim. (Cl. 254—161.)



A jack for fence-wire stretchers, comprising a body plate having arcuate slots adjacent to one of its ends,

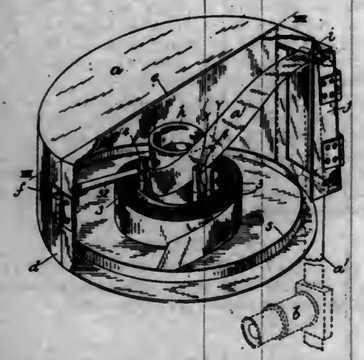
said slots being also adjacent to its side edges, means associated with said body plate for the attachment of a wire stretcher thereto, bars arranged alongside of and pivotally connected to the body plate adjacent to one end thereof and projecting beyond the other end thereof and having pointed ends and also having adjacent said ends cables for the individual connection of said bars to a fence post, headed pins carried by said bars and disposed and movable in said arcuate slots of the body plate, and a tie rod pivotally connected to the body plate and adapted to extend therefrom in the direction opposite to that in which the said bars extend.

1,751,191. AUXILIARY JET CUTTING TIP FOR CUTTING TORCHES. CLARENCE J. COBERLY, Los Angeles, Calif., assignor to Kobe, Inc., Los Angeles, Calif., a Corporation of California. Original application filed Sept. 29, 1923, Serial No. 665,645. Divided and this application filed Sept. 4, 1928. Serial No. 303,720. 7 Claims. (Cl. 158—27.4.)



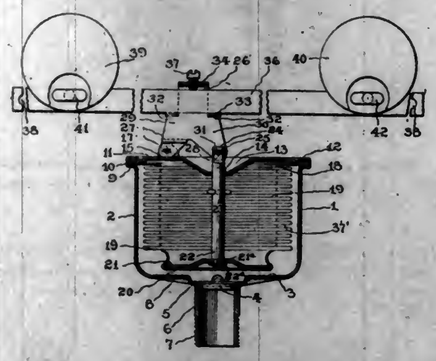
7. As a new article of manufacture, a cutting tip having a pair of relatively diverging cutting jet orifices, and a third cutting jet orifice cooperating therewith, there being means for forming a heating jet outside the area including said cutting jet orifices.

1,751,192. FILM-WINDING MECHANISM FOR CINEMATOGRAPH APPARATUS. FLORENCE COWIE, London, England. Filed Mar. 8, 1928, Serial No. 260,181, and in Great Britain June 13, 1927. 13 Claims. (Cl. 88—18.7.)



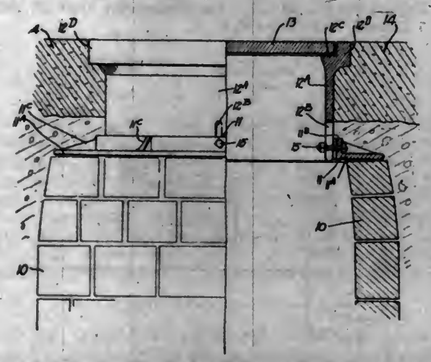
1. In cinematograph film winding apparatus, a horizontal revoluble pan formed with a central circular depression and adapted for carrying a roll of film to be unwound, a central vertical capstan device upstanding above the plane of said pan and supported by the latter, a ring fence of pillars surrounding said capstan at a fixed radial distance therefrom, revoluble sleeves on said pillars, a carrier for said pillars said carrier being disposed within the depression of said pan, and anti-friction bearings between said pan and its support and between said pan and the fence carrier substantially as set forth.

1,751,193. PRESSURE-OPERATED REGULATOR. EARNEST J. DILLMAN, Kenmore, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 11, 1926. Serial No. 154,262. 7 Claims. (Cl. 236—26.)



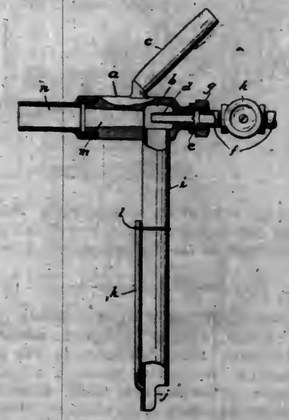
1. In a device of the character described, a casing, a pivoted rocker member, a resilient pressure-responsive element in said casing having a static condition, means operatively connecting said element to said rocker member to rock said member, a weighted operating member carried by said rocker member and opposing operation of said element, the distance between the pivotal point of said rocker member and the point of connection between said element and rocker member, and the distance between said pivotal point and the center of weight of said operating member when said element is in static condition being such that the system is in substantial equilibrium for all increases or decreases of potential energy stored in said pressure-responsive element due to movement of said pressure-responsive element.

1,751,194. MANHOLE COVER. CHARLES NORMAN ELSY, Glen Ellyn, Ill. Filed Feb. 13, 1928. Serial No. 253,885. 9 Claims. (Cl. 94—34.)



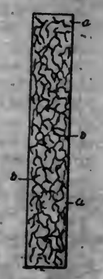
1. In a structure of the character described, the combination of a surrounding wall structure forming a manhole and containing an opening in its top, a cover-plate-supporting hollow member open at its opposite ends and forming a continuation of the opening in said wall structure and free of support by said wall structure, a concrete slab in which said member is located, and means supporting said member on said slab, said member and slab being capable of downward movement as a unit relative to said wall-structure.

1,751,195. APPARATUS FOR APPLYING REFRACTORY CEMENT. LEON FABER, Philadelphia, Pa., assignor to Leonard B. Botfield, trading as Botfield Refractories Company, Philadelphia, Pa. Filed Feb. 15, 1927. Serial No. 168,268. 2 Claims. (Cl. 91—45.)



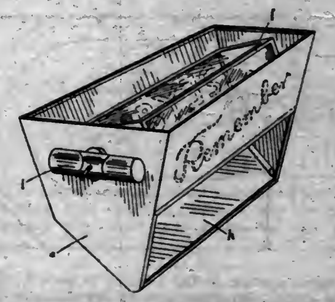
1. Apparatus for applying plastic material comprising a head having therein a chamber, a discharge passage from said chamber increasing in area outwardly from the chamber, an inlet passage to the chamber for compressed air or vapor aligned with the discharge passage, and a second inlet passage to the chamber, a tube communicating with said second inlet passage, and an air conduit communicating at one end with the interior of the tube adjacent its intake end, the other end of said conduit being arranged to open to the atmosphere when the intake end of the tube is immersed in the plastic material, whereby compressed air or vapor admitted through the first inlet passage serves to produce a flow of plastic material and air through the tube into the chamber and to discharge the same therefrom through the discharge passage.

1,751,196. CONSTRUCTIONAL MATERIAL. ALBERT C. FISCHER, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Original application filed May 10, 1922, Serial No. 559,908. Patent No. 1,680,144. Divided and this application filed Oct. 16, 1925, Serial No. 62,908. Renewed Apr. 20, 1929. 18 Claims. (Cl. 94—18.)



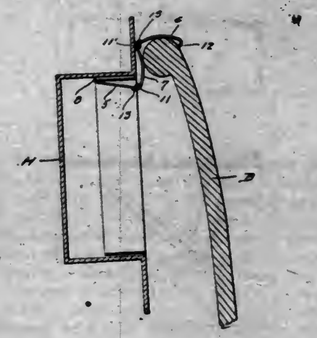
15. A preformed constructional unit composed of bituminous material having hardened areas therein formed as a skeletonized, internal reinforcement, certain other portions of the bituminous material being relatively softer.

1,751,197. ADVERTISING DEVICE. HENRY RICHARD FLOOD, South Chingford, England, assignor to Cecil Gordon Vokes, London, England. Filed Dec. 19, 1928, Serial No. 327,096, and in Great Britain Dec. 20, 1927. 3 Claims. (Cl. 40—40.)



1. A daylight reflecting advertising device comprising a casing, an inclined mirror in said casing arranged to reflect daylight to an observer, a plurality of transparencies, a pivoted casing carrying said transparencies, and means to oscillate said casing so as to bring said transparencies into operative position one at a time.

1,751,198. GARMENT HANGER. JOHN B. FRANCK, Richlands, N. C. Filed July 10, 1929. Serial No. 377,179. 3 Claims. (Cl. 248—24.)

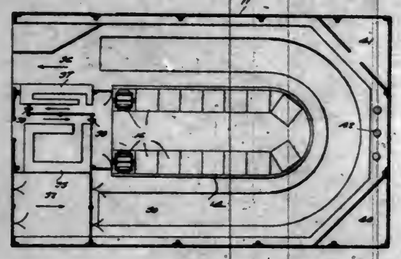


1. A collapsible garment hanger comprising a plurality of hingedly connected sections embodying a pair of end sections and an intermediate section, one of said end sections and said intermediate section being of substantially arcuate formation, said end sections being provided at their outer free ends with hook-like extremities, said arcuate shaped end section adapted to be disposed over the top edge of a chair back, the hooked end of said end section engaging said chair back for suspending the hanger from the back, when said sections are in an unfolded position, and a hooked end of the other of said sections adapted to be engaged by a garment for suspending said garment from the hook, and said arcuate end section being adapted to have its concaved side in abutting relation to the convex side of the intermediate section when said sections are moved to a folded position substantially as described.

1,751,199. SELF-SERVING STORE. JOSEPH N. GRANT, Louisville, Ky., assignor to The Grant Stores Inc., a Corporation of Delaware. Filed Mar. 12, 1928. Serial No. 260,962. 3 Claims. (Cl. 186—1.)

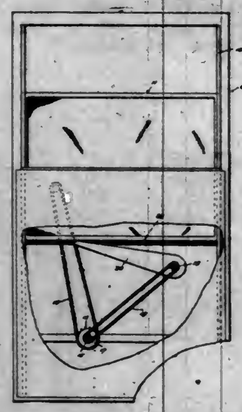
1. In combination with a store of the character described having separate vehicle and pedestrian passage-

ways with a counter interposed therebetween, of a display rack rotatably supported upon said counter, said counter having its central portion immediately beneath said rack arranged at a relatively lower horizontal plane



to the upper portion of the counter to permit rotation of the rack without interference with said counter, operating means for the rack and means accessible to either side of the counter for controlling the operation thereof.

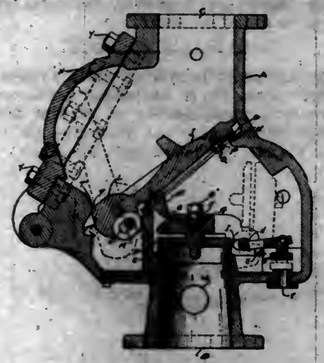
1,751,200. AUTOMOBILE SCREEN. MARY L. GRAY and ELIZABETH FORD, Waverly, Va. Filed Sept. 17, 1928. Serial No. 306,435. 1 Claim. (Cl. 156—14.)



In an operating mechanism for the screen frame of an automobile door, said frame having at the bottom thereof a horizontal guide channel, a crank shaft rotatably mounted in the door, a crank arm carried by said shaft and having on its free end a roller arranged to said guide channel, a sprocket wheel on said shaft, a second shaft, a pair of sprocket wheels on said second shaft, an endless flexible chain trained over the first mentioned sprocket wheel and one of the sprocket wheels of said pair for operatively connecting said shaft, a sprocket wheel having means for manual rotation thereof and a second endless flexible chain trained over the last mentioned sprocket wheel and the other sprocket wheel of said pair, substantially as described.

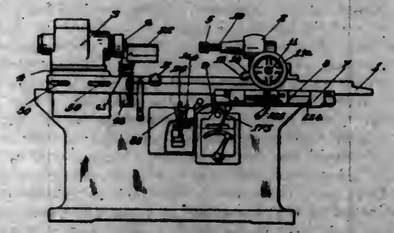
1,751,201. DRY-PIPE VALVE. LESTER A. GRIMES, Montclair, N. J., assignor to Grimes Sprinkler Company, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 25, 1925. Serial No. 39,433. 9 Claims. (Cl. 169—22.)

1. A dry pipe valve comprising a casing, an air-clapper and a water-clapper therein, means for transmitting pressure from one to the other when seated, projections carried by the casing, and independent supporting means for each clapper, each adapted to coact with one of said projections to impart to the clapper upon opening a combined motion of rotation and of translation in a plane approximately parallel to that of the clapper, the said



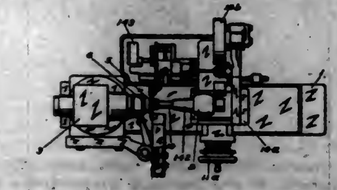
projections and supporting means being relatively so arranged that the supporting means will fall by gravity past the projections as the clappers move to the full open position.

1,751,202. GRINDING MACHINE. ROGER N. HEALD, WALDO J. GUILD, ALFRED P. BURNS, and GEORGE E. GARNO, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 24, 1925. Serial No. 4,466. 9 Claims. (Cl. 51—50.)



1. In a grinding machine, a grinding wheel having a reciprocatory working traverse relative to the work, a grinding wheel dresser, a work calipering device, means set in operation by said work calipering device for disposing said dresser in the line of movement of said wheel, and means, dependent upon the operation of said last named means, for increasing the traverse of said wheel, to include the dresser in its path.

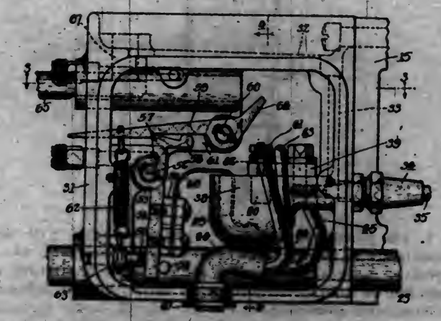
1,751,203. GRINDING MACHINE. ROGER N. HEALD, WALDO J. GUILD, ALFRED P. BURNS, and GEORGE E. GARNO, Worcester, Mass., assignors to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed Jan. 24, 1925, Serial No. 4,466. Divided and this application filed Apr. 6, 1927. Serial No. 181,439. Renewed Dec. 18, 1929. 15 Claims. (Cl. 125—11.)



1. In a grinding machine, a reciprocating table, a wheel dressing device having its point normally out of the path

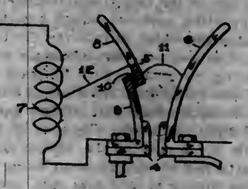
of the grinding wheel, mechanism adapted, when actuated, to move said dressing point into the path of the grinding wheel, a cam member to actuate said mechanism, and electromagnetic means for connecting said reciprocating table to said cam member.

1,751,204. SWITCH. HERBERT B. KEMPTON, Chicago, Ill., and KEITH F. GALLIMORE, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 16, 1925, Serial No. 15,849. Renewed Aug. 24, 1929. 11 Claims. (Cl. 200—47.)



1. A switch having, in combination, a casing, an oil trough mounted in said casing, a plurality of fixed contacts mounted in said oil trough, two spring contacts movable in said oil trough and with said fixed contacts constituting a pair of switches, two pivotal latches one for each spring contact and supporting the same, means for moving said latches to open said switches, spring means tending to move said latches to close said switches, two catch members one for each latch adapted to resiliently engage and to hold said latch in open position, and means for tripping said catches to close said switches.

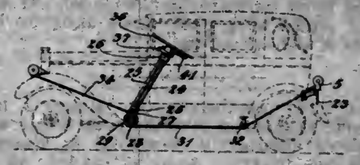
1,751,205. ELECTROMAGNETIC BLOW-OUT DEVICE. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 2, 1922. Serial No. 585,957. 3 Claims. (Cl. 200—147.)



1. The combination with a pair of relatively movable contact members, of an arc horn secured to each of the said contact members, one of the arc horns being made in upper and lower sections, a blowout coil, and a connection between an intermediate turn of said coil and the said upper section whereby a portion of the coil is short circuited when one of the arc terminals reaches the said upper section.

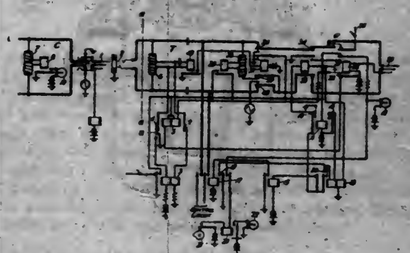
1,751,206. INDICATOR FOR MOTOR VEHICLES. WALTER HUELLER, West New York, N. J. Filed Feb. 12, 1929. Serial No. 339,339. 6 Claims. (Cl. 116—43.)

1. In combination with a motor vehicle, indicating means carried by the vehicle and having a movable indicator member, and operating means for said indicator member including a manually operable part for actuating said operating means mounted for independent movement in a plane at right angles to the plane of the steering



wheel and having means to releasably engage a part of said wheel whereby said operating means may be actuated simultaneously with the manipulation of the steering wheel.

1,751,207. TELEPHONE TRUNK CIRCUIT. HERBERT B. JOHNSON, Flushing, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1928. Serial No. 272,898. 2 Claims. (Cl. 179—41.)



1. In a telephone system, a toll operator's position, a cord circuit thereat, a tandem position, a tandem trunk line interconnecting said toll and tandem positions, a switching position, a switching trunk interconnecting said tandem and switching positions, means for interconnecting said trunks at said tandem position, called lines outgoing from said switching position, means for connecting said switching trunk with one of said called lines, a supervisory relay associated with said cord circuit, a first relay associated with said tandem trunk at the tandem position end thereof, a circuit including a source of current, a winding of said supervisory relay and contacts of said first trunk relay, a second relay associated with said tandem trunk adapted to disable said first relay, and a third relay associated with said switching trunk and controlled by said called line for controlling said second relay.

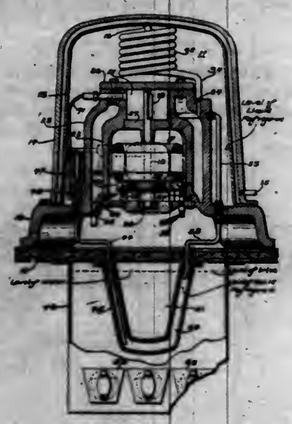
1,751,208. CONFECTION PACKAGE. ANDREW C. KAPPES, Chicago, Ill., assignor to Wm. Wrigley Jr. Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1929. Serial No. 346,963. 5 Claims. (Cl. 206—46.)



1. A confection package comprising a row of lozenge shape confections having spaces between their edges, a

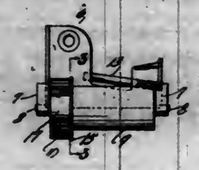
wrapper enclosing said confections and depressed within the spaces to form corrugations extending around the package, and an outer wrapper surrounding said package with its opposite marginal portions overlapping on one face thereof, the underlapping portion being corrugated to conform to the corrugated surface beneath and the overlapping portion being glued thereto along the elevated portions of said corrugations.

1,751,209. REFRIGERATOR. ANDREW A. KUCHER, Chester, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 10, 1923. Serial No. 650,668. 13 Claims. (Cl. 62—116.)



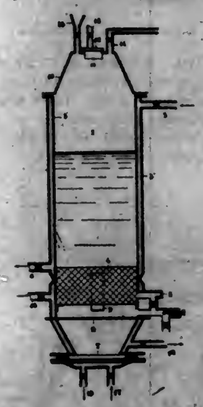
1. In a refrigerating apparatus, the combination of an evaporator, a compressor, cooling means for condensing the refrigerant vapor discharged by the compressor, a motor for driving the compressor, a chamber enclosing the compressor and the motor, a single jacket both surrounding the motor and the compressor and disposed in direct heat-exchanging relation therewith, and means for conveying a cooling medium through said jacket.

1,751,210. THREAD PROTECTOR. JOHN P. LEONARD, Hawley, Pa. Filed Aug. 14, 1929. Serial No. 385,827. 1 Claim. (Cl. 117—21.)



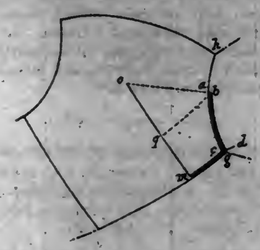
In a device of the character described, in combination with a feed roller having a reduced end, a pinion adapted to be mounted on the said reduced end and being of greater diameter than the feed roller, a thread protecting washer of greater diameter than the said pinion and having a central aperture to receive the said reduced end of the feed roller, the said thread protecting washer being mounted on the said reduced end between the feed roller and pinion.

1,751,211. PROCESS FOR PRODUCING ANHYDROUS ALCOHOL. OVIDIO LEONORI, Narni, Italy. Filed June 9, 1927, Serial No. 197,769, and in Italy June 26, 1926. 4 Claims. (Cl. 260—156.)



1. The process of producing anhydrous alcohol to be used principally in the preparation of fuels and solvents, which consists in treating aqueous alcohol with a mixture of metallic carbides decomposable by water, and hydrides of calcium and aluminum.

1,751,212. BREAST SUPPORTER, CORSELET, CORSET, AND THE LIKE. JULES LINDAUER, Paris, France. Filed Feb. 17, 1928, Serial No. 254,993, and in France Apr. 5, 1927. 6 Claims. (Cl. 2—42.)

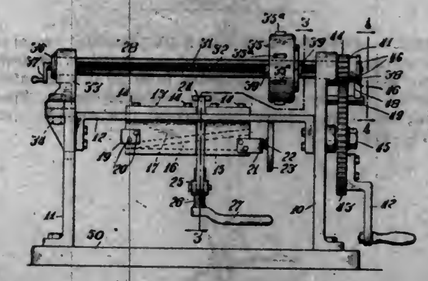


6. In each one of the two symmetrically disposed halves of a bust supporting garment joined together by stitching on their front edges which fit into the vertical front center line of the bust between the two breasts, a reinforcing piece of fabric having an outline with at least three adjacent sides, a first side being attached along a part of said front edge of the corresponding half of the garment and two other sides forming an angle, the apex of which is placed directly below the nipple of the breast, one side of said angle being attached on said garment along a substantially horizontal line ending at said first side, and the other side of said angle being attached on said garment along a line extending towards the lower part of said garment, transverse stitchings joining the reinforcing piece and the garment, and extending from an intermediate point of said line extending towards the lower part of said garment to a point of one of the other sides of said reinforcing piece.

1,751,213. INSULATING COATING ON ALUMINUM OR ALUMINUM ALLOYS. LEON MCCULLOCH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1927. Serial No. 234,560. 15 Claims. (Cl. 148—6.)

11. The process of coating aluminum or aluminum alloys containing a major proportion of aluminum which comprises immersing a body of the material in a bath containing water, an alkaline-earth-metal oxide that is only slightly soluble in water at room temperature and an alkaline-earth-metal salt for a sufficient length of time to cause the deposition of a film upon the body, withdrawing the film-coated body from the bath and then drying the deposited film.

1,751,214. BRASS-TRUING MACHINE. EDWARD J. MCKERNAN, Topeka, Kans. Filed July 6, 1926. Serial No. 120,550. 2 Claims. (Cl. 77—63.)



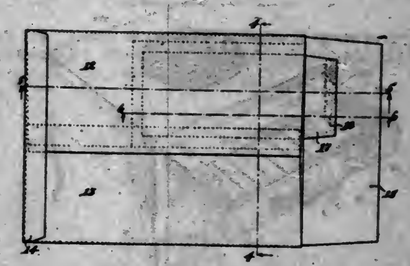
1. In a brass truing machine, a chuck box having upstanding sides whereby the box may be secured to a supporting member, said side walls having vertical slot-ways, the ends of the chuck box being open; a chuck block the lower surface thereof is tapered, a similarly tapered wedge block slidable on the bottom of said box and beneath the chuck block, said wedge block having a threaded bore extending longitudinally from one end of the wedge block, a bracket disposed about one of the open ends of the chuck box for preventing lengthwise movement of the chuck block, an adjusting screw extending into the threaded bore of the wedge block, a second bracket disposed at the same end of the chuck box and through which the adjusting screw extends whereby lengthwise movement of the screw is prevented, a pair of upstanding arms disposed in the slots in the sides of the chuck box, having inwardly disposed upper ends above the chuck box, a transversely disposed member beneath the chuck box pivotally connected at its ends to the lower ends of the arms whereby both arms are operatively connected together, and a clamp screw threaded through said last member and engaging the bottom of the chuck box whereby screwing of the clamp screw causes said transversely disposed member to ride lengthwise of the clamp screw and both arms simultaneously moved together.

1,751,215. GUARD FOR SAFETY-RAZOR BLADES. PAUL MÜLLER, Solingen, Germany. Filed Jan. 15, 1929, Serial No. 332,642, and in Germany Oct. 4, 1928. 1 Claim. (Cl. 30—12.)



In a safety razor for double edged flexible blades a frame like guard plate without teeth, said guard plate having along the sides hollowed ledges, said ledges being rounded off and lower than the main top surface of the guard plate and being provided with a novel safety device in form of needle-like bearing points, said needle-like bearing points being positioned to support a double edged flexible blade, although the edge is quite free across its whole breadth, quite immovably right up to the very cutting edges, dividing said cutting edges into small closed sections for the purpose set forth in the specification.

1,751,216. DUPLEX ENVELOPE. WILLIAM H. RIPP, Chicago, Ill. Filed Sept. 18, 1928. Serial No. 305,670. 5 Claims. (Cl. 229—72.)



1. A duplex envelope comprising a body portion having top, bottom and side flaps, one of said side flaps providing a permanent closure for said envelope when affixed to the folded and glued top and bottom flaps, said top flap having a single sheet of paper glued to its inner side to provide a small receptacle between said paper sheet and said top flap, said small receptacle being within the large compartment provided by the body portion and the co-acting top, bottom and side flaps, and an individual sealing flap for said small receptacle and said large compartment.

1,751,217. EMULSION. OTTO RÖHM, Darmstadt, Germany. Filed Oct. 5, 1927, Serial No. 224,280, and in Germany Nov. 13, 1926. 1 Claim. (Cl. 149—6.)

An emulsion for tanning purposes comprising a mixture of a fatty substance and freshly precipitated aluminum hydroxide.

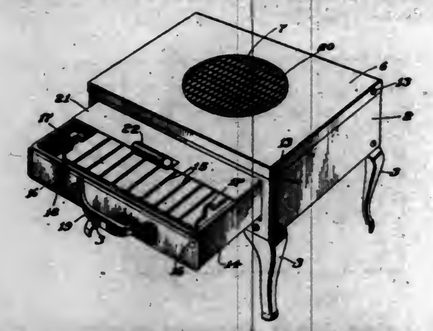
1,751,218. PORTABLE FIRE EXTINGUISHER. KARL SCHMIDT, Neuruppin, Germany. Filed Aug. 8, 1927, Serial No. 210,358, and in Germany Aug. 7, 1926. 2 Claims. (Cl. 169—31.)



1. In a portable liquid fire extinguisher, a container for the squirting liquid provided with a charge opening in the top and a squirting nozzle, a cover for closing said

opening, a stuffing box in said cover, a rod passing through said stuffing box and adapted to be axially displaced from outside, a cartridge containing liquid gas and provided with a striking pin suspended from the inner end of said rod so that said pin is located near the bottom of said container.

1,751,219. ELECTRIC BROILER. PERCY R. SEAMON, Cambridge, Mass., assignor to Florence Stove Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 26, 1928. Serial No. 315,278. 5 Claims. (Cl. 219—37.)

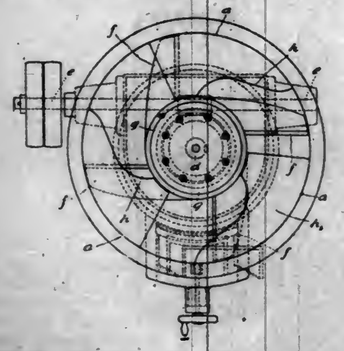


1. In a broiler, the combination of a casing, a horizontal electric heating unit supported in said casing and extending across the greater part of the area of the casing, said casing having a chamber therein immediately below said unit, a tray slidable into and out of said chamber, and means adjustable to reflect the heat from said unit either upward or downward, as desired.

1,751,220. LIGHT FILTER. ICHITARO SHOJI, Higashi Yodogawa-Ku, Osaka, Japan, assignor to Sankyo Kabushiki Kaisha, Tokyo, Japan, a Corporation of Japan. Filed Aug. 3, 1926, Serial No. 126,984, and in Japan Dec. 24, 1925. 2 Claims. (Cl. 95—31.5.)

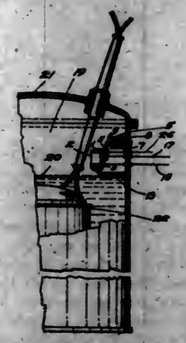
1. A light filter capable of absorbing ultra violet rays, comprising a film containing hexamethylene-tetramine-triphenol obtained by condensing phenol and formaldehyde in the presence of ammonia.

1,751,221. MIXING APPARATUS. ALFRED BARTLETT SMITH and CLIFFORD ROSS SMITH, Wolverhampton, England. Filed Sept. 24, 1927, Serial No. 221,677, and in Great Britain Oct. 5, 1926. 4 Claims. (Cl. 259—107.)



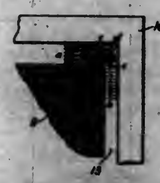
1. Apparatus for mixing finely divided materials with a binder, comprising a cylindrical container, a spindle rotatable about a vertical axis in the centre of the container, a domed distributing member above the centre of the container, backwardly raked and inclined blades carried by and rotating with the spindle and extending substantially from it to the inner face of the container, fixed members extending from the inner face of the container substantially to the spindle and provided with pressure surfaces forwardly curved towards the walls of the container and downwardly inclined from their leading edges, the said surfaces becoming increasingly close to and co-operating with the rotating blades to form squeezing pockets with lateral escape, and means for discharging the mixed materials from the container.

1,751,222. COMPENSATED GAS DETECTOR. CHARLES A. STYER, Wilkinsburg, and WALTER M. DANN, Sharon, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 30, 1928. Serial No. 303,092. 9 Claims. (Cl. 175—361.)



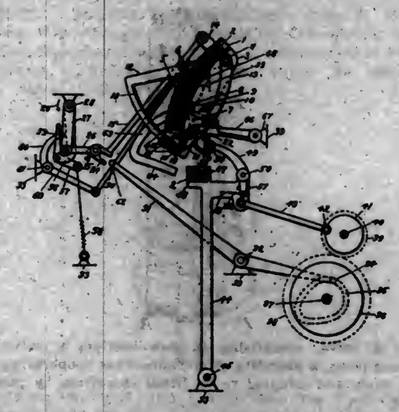
1. In an inclosed vessel, the combination with a gas detector, of means including a device responsive to pressure changes within the vessel for compensating said detector for errors incident to changes in pressure within the vessel.

1,751,223. TRANSFORMER. FRED J. VOGEL, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 22, 1928. Serial No. 301,228. 3 Claims. (Cl. 175—356.)



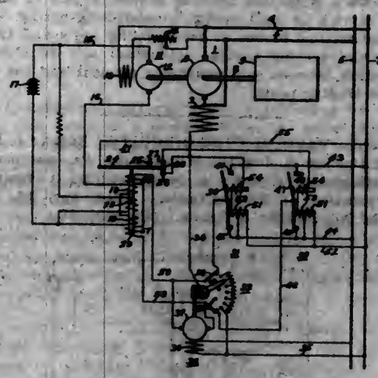
1. A transformer having a core, windings disposed upon said core and spaced therefrom causing an electrostatic field to exist between said core and windings, the intensity of said electrostatic field varying uniformly as the length of the windings and means for shaping the electrostatic field at the angle of the winding structure comprising a layer of insulation disposed upon the end of said windings at which the electrostatic field is most intense, said insulation having a higher specific inductive capacity than the medium of the space between the core and windings, whereby said space may be reduced to a minimum.

1,751,224. AUTOMATIC BOBBIN-CHANGING MECHANISM FOR LOOMS. NIKOLAI I. ASAFOFF, Moscow, Union of Socialist Soviet Republics. Filed Nov. 12, 1928. Serial No. 318,934. 4 Claims. (Cl. 139—242.)



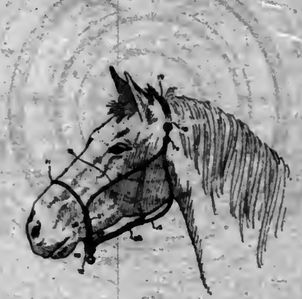
1. In an automatic bobbin changing mechanism for a loom, the combination with a magazine for bobbins, of a cage, a frame for said loom, arms supporting said cage and rotatively mounted in a coordination with said magazine box, said arms being adapted to move said cage from the position under said magazine box to a position above the shuttle box in the lay of a loom, said cage being adapted to receive a bobbin from said magazine, means to operate said arms, a change shaft adapted to be operated by a filling motion of said loom, means to control said arm operating means by said change shaft, a pusher lever on the lay of said loom adapted to transfer said bobbin from said cage into the shuttle in said shuttle box, a board pivotally mounted on said frame in a cooperative relation with said pusher lever, and means to move said board into an operating position, said means being controlled by said change shaft.

1,751,225. REGULATOR SYSTEM. JOHN H. ASHBAUGH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 9, 1927. Serial No. 238,808. 6 Claims. (Cl. 171—229.)



1. In a regulator system, a dynamo-electric machine having a field winding, means for governing the excitation of said dynamo-electric machine comprising a source of electric energy having a potential that varies in accordance with the regulated quantity of said machine, a second source of electric energy, a circuit for connecting said two sources of energy in voltage opposition and a regulator comprising a magnet having a movable core member and three fixed coils wound about said core member, means for energising the middle one of said coils for magnetising the core member and for normally holding said core member centrally thereof, means for energising the remaining two coils for varying the position of the maximum flux density with respect to the position of the coils in accordance with the direction of current flow between said two sources.

1,751,226. ROPE HALTER. EDWARD S. BECKWITH, Albion, Nebr. Filed Apr. 27, 1928. Serial No. 273,898. 2 Claims. (Cl. 54—24.)



1. A rope halter, comprising a single length of rope looped circularly and continuously in one direction to provide a continuous front loop of approximately circular form having an upper nose piece of single thickness and a lower chin piece of double thickness, the rope extending backwardly in single thickness from the upper ends of the chin piece to provide opposite side cheek pieces, the rear end of the cheek piece at one side terminating in a short loop and the rear end of the other cheek piece terminating in a returned long loop providing a double thick crown piece, means for detachably connecting the short and long loops together at one side of the halter, the portions of the rope extending downwardly from the short and long loops providing a throat latch of double thickness, and a lead strap connection carried on the forward end of the throat latch and slidably engaging the double thick throat latch portion of the front loop.

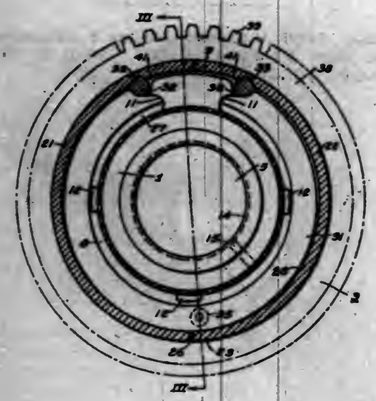
1,751,227. SURGEON'S KNIFE. MARCUS B. BEHRMAN, Brooklyn, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed July 6, 1925. Serial No. 41,514. 10 Claims. (Cl. 30—9.)



1. In a device of the character described, a blade holder base plate including a hand grip portion, a blade seat extending from one end thereof and positioned below the upper surface of the base plate and means for holding the blade on said seat, said means including a member carried by the base plate and hand grip portion and ar-

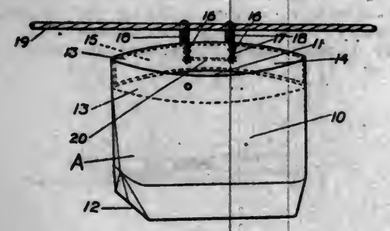
ranged to have a sliding engagement with reference thereto, to and from a position over the blade seat, and undercut means extending upwardly from the base plate for holding said member in sliding association with the holder.

1,751,228. FLEXIBLE GEAR WHEEL. CLAUDE BETHEL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 27, 1927. Serial No. 208,712. 9 Claims. (Cl. 74—29.)



1. A flexible gear wheel comprising a hub member having a spherical peripheral bearing surface, a rim member carried by the hub member, said rim member having an inner bearing surface complementary to the bearing surface of the hub member, and a resilient member interposed between the hub member and the rim member for transmitting torque, said resilient member being in the shape of a segment of an annulus of different radius than the inner radius of the gear rim and adapted to be forced into contact with the gear rim when the rim member is displaced tangentially in either direction with respect to the hub member.

1,751,229. BAG. LEON G. BIGELOW, St. Paul, Minn. Filed Sept. 25, 1924. Serial No. 739,858. 1 Claim. (Cl. 68—11.)



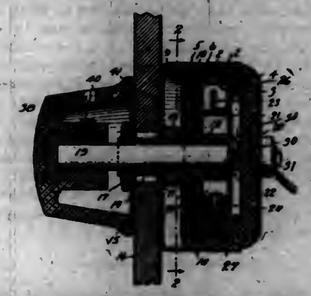
A bag having an open end and two pairs of parallel openings near the open end, a handle formed of a single piece of wire having parallel legs slidably mounted in said pairs of openings, and the ends of said legs being formed into hooks for attaching said handle to said bag or to a clothes line.

1,751,230. COMPRESSOR VALVE. ARTHUR J. BRIGGS, Syracuse, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 21, 1928. Serial No. 248,420. 4 Claims. (Cl. 277—46.)



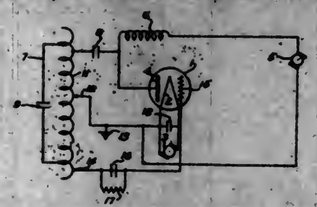
1. A valve, comprising in combination, a valve seat having ports, a plurality of movable tubes cooperating with the ports and adapted to be lifted therefrom by pressure fluid.

1,751,231. VARIABLE RESISTANCE UNIT. BRUCE W. DAVID, Cleveland, Ohio, assignor to Walter M. Scott, Lakewood, Ohio. Filed Feb. 24, 1925. Serial No. 11,092. 5 Claims. (Cl. 201—55.)



1. A resistance unit comprising a casing, a resistance element carried by said casing, a shaft, and a resilient contact element connected to said shaft and adapted to engage with said resistance element, said contact element being substantially circular in shape and provided at one side with a projection forming a shoe, a pair of binding posts carried by said casing, a conducting spring having one end secured to one of said binding posts and the opposite end bearing against said shaft and an electrical connection between said resistance element and the other of said binding posts.

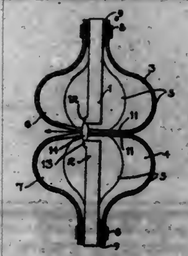
1,751,232. VACUUM-TUBE CIRCUITS. ROBERT L. DAVIS and DONALD G. LITTLE, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 15, 1925. Serial No. 23,429. 3 Claims. (Cl. 250—36.)



3. In combination, a power-tube device adapted to generate oscillations at radio-frequencies, said tube-device

comprising a cathode having external terminals, a large condenser permanently connected between said terminals, and means distinct from said condenser for maintaining one of said terminals at ground-potential.

1,751,233. CIRCUIT INTERRUPTER. OTTO H. ESCHHOLZ, Wilkinsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 18, 1922. Serial No. 606,570. 11 Claims. (Cl. 200—144.)

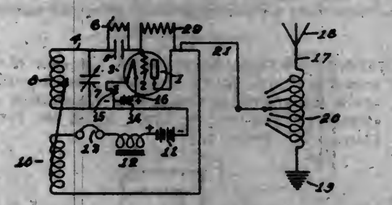


1. In an electrical circuit interrupter the combination with a contact member for interrupting a circuit, of a shield of resilient material associated therewith.

1,751,234. COMPOSITION AND MANUFACTURE OF REFRACTORY BASIC BRICK AND THE LIKE. CECIL STEVENSON GARNETT, Derby, England. Filed Mar. 6, 1928, Serial No. 623,286, and in Great Britain Mar. 18, 1922. 4 Claims. (Cl. 106—9.)

1. The process of manufacturing bricks from dolomite, which consists in calcining the dolomite until it contains 8 to 12 per cent by weight of carbon dioxide, grinding said calcined dolomite, adding thereto a substance calculated to prevent hydration of the finished article, adding water to the mixture, molding said mixture into the required shape, drying the same, and firing.

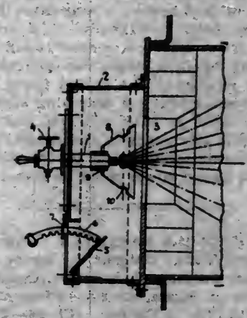
1,751,235. RADIO RECEIVING SYSTEM. THOMAS GONORA, Jr., St. Louis, Mo. Filed Feb. 10, 1927. Serial No. 167,212. 4 Claims. (Cl. 250—20.)



1. A radio-receiving system for reproducing the modulating side bands of a modulated carrier wave that comprises a space discharge device and input and output circuits therefor having a common cathode, means for tuning the system to the frequency of the incoming wave, wave-collecting means coupled to the output circuit, and a filter offering high impedance to the frequency of the carrier wave but resonant to the modulating frequencies of the carrier wave, said filter being located in the output circuit connection to the common cathode to exclude the carrier wave from the input circuit.

1,751,236. SYSTEM FOR THE COMBUSTION OF OIL. GILBERTO GONTARD, Buenos Aires, Argentina. Filed July 26, 1927. Serial No. 208,464. 1 Claim. (Cl. 158—1.5.)

In oil burning appliances, the combination with a furnace front having an opening, of a closed casing attached thereto about said opening and having an air inlet opening extending across substantially the entire width thereof, and at the bottom thereof, a deflecting closure plate for said air inlet opening pivoted within said casing, a burner supported by said casing above said air inlet opening, a conical screen carried by and surrounding said burner near its discharge end, said burner and screen being disposed externally of the furnace front and with the edge of the screen spaced from the edges of said furnace opening and said conical screen having openings for the admission of air both axially and circumferentially whereby the air may be deflected by said closure plate so as to direct the major portion thereof towards said various openings in said screen and about the same so as to vary the type of flame.

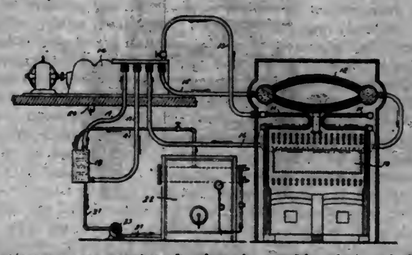


1,751,237. VALVE-CONTROLLED CLOSURE FOR BOTTLES CONTAINING CARBONATED BEVERAGES. FAIRFIELD W. HOBAN, New York, N. Y., assignor to Fairfield Specialties Corporation, New York, N. Y., a Corporation of New York. Filed May 31, 1928. Serial No. 281,735. 14 Claims. (Cl. 215—78.)



1. A device of the character described comprising a recessed closure having a discharge passage provided with an entrance portion projecting into the recess, and a resilient valve member disposed within said recess and having a portion of yieldable material adapted to engage said projecting entrance portion, said valve member having a spring action normally closing said passage and providing a fluid tight joint between said entrance portion and said yieldable portion.

1,751,238. STEAM-POWER SYSTEM. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 26, 1925. Serial No. 32,907. 1 Claim. (Cl. 60—78.)



A steam power system having, in combination, a boiler setting including a steam-generating boiler, a boiler fur-

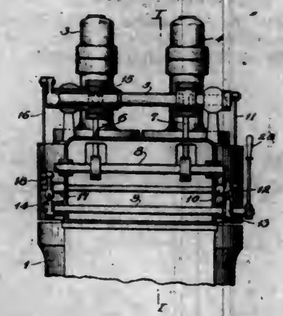
nace associated therewith and provided with a passage for the flow of heating gases over said boiler, a multi-stage prime mover, a connection for conveying operating steam from said boiler to a high-pressure stage of said prime mover, a heating element located so as to absorb heat from the gases flowing through said passage, a connection for delivering steam exhausted from said high-pressure stage to said heater, a connection for conveying re-heated steam from said heater to a lower pressure stage of said prime mover, a second re-heater, a second vapor-generating boiler, a closed vapor-circulating system including said re-heater, said second boiler and connections therebetween, means for conveying steam from said lower pressure stage to said re-heater and thence to a third stage of said prime mover, and means for generating vapor for circulation through said closed system independent of said first-named steam boiler or furnace.

1,751,239. SEPARABLE FASTENER. GUSTAV JOHNSON, West Roxbury, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 11, 1927. Serial No. 212,279. 3 Claims. (Cl. 24—216.)



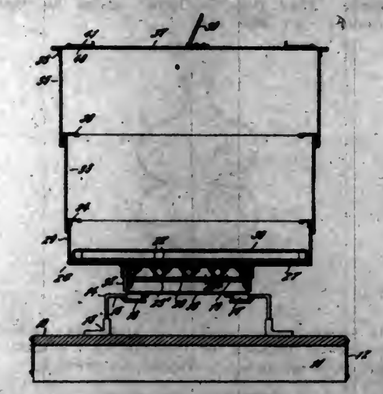
1. In a fastener socket installation, a stud-receiving part, an attaching plate and a socket-carrying medium located between support-engaging faces of the stud-receiving part and attaching plate, said stud-receiving part presenting a plurality of resilient fingers of substantial length passing through the carrying medium and terminating at the opposite side to present a stud-receiving aperture at the free ends of said fingers surrounded by a plurality of neck-engaging jaw portions for engagement with a stud when presented from that side of the carrying medium at which the attaching part is located and attaching prongs formed integral with said stud-receiving part and passing through the socket-carrying medium thereby to engage the attaching plate and secure the parts of the socket installation together.

1,751,240. INLET-VALVE GEAR FOR INTERNAL-COMBUSTION ENGINES. EMIL KÄGI, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 5, 1926, Serial No. 146,346, and in Germany Nov. 11, 1925. 4 Claims. (Cl. 123—32.)



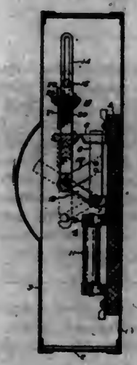
1. In an internal combustion engine, a plurality of injection valves, valve operating means therefor, adjustment means for varying the valve opening action of each of the valve operating means, a control shaft and a plurality of operating cams thereon adapted for successive engagement each with its said adjustment means.

1,751,241. ELECTRIC STOVE AND ATTACHMENT. VICTORIA A. KINCANNON, New York, N. Y. Filed June 2, 1926. Serial No. 113,224. 1 Claim. (Cl. 126—38.)



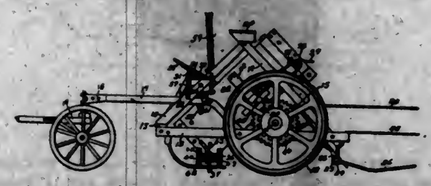
In an electric stove, a supporting stand, a relatively small pan spaced above the stand, socket members on the bottom of said pan, substantially inverted L-shaped legs rising from the stand and having their corresponding horizontal branches received by said sockets to support the pan, a heating unit reposing upon said pan, socket members arranged on the sides of said pan, a shell structure arranged above the pan, depending legs carried by the shell and received by the last mentioned sockets, a relatively large pan member supported on said shell, an oven member formed with an inwardly directed flange adjacent the lower edge thereof, and engaging the upper edge of the second mentioned pan to support the oven member thereon, a casing like member arranged above the oven like member and including inwardly directed flanges reposing upon the upper edge of said oven like member, said members being of different sizes whereby they are capable of adjustment in telescoped relation, and a removable cover for the uppermost casing like member.

1,751,242. SWITCH MECHANISM. HUBERT K. KRANTZ, Rockville Center, N. Y., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 20, 1926. Serial No. 155,800. 4 Claims. (Cl. 200—144.)



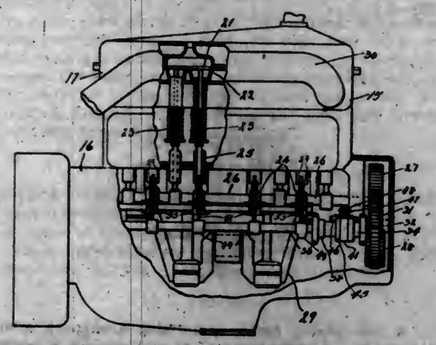
1. Switch mechanism comprising a contact jaw member, a switch-blade member movable into and out of engagement with the contact member, an arc-quenching device comprising separate, insulating metal plates provided with aligned slots through which the switch blade moves to open position and means for moving the arc-quenching device into a position between the jaw member and the swinging end of said blade member.

1,751,243. VINE-CROP SHOCKER. CLAUDE E. LEE, Adams County, Colo. Filed May 2, 1927. Serial No. 188,161. 3 Claims. (Cl. 56—348.)



1. A machine for the shocking of vine crops comprising a wheel-supported axle, a skeleton frame carried by said axle, draft means on the forward end of said frame, a manually-operable dumping carrier on the rear end of said frame, a conveyor box mounted for oscillation on said axle within said frame, spaced, parallel opposed drapers mounted for opposite travel within said conveyor box and adapted to discharge on said carrier, driving connections between said axle and drapers and manually operable means on said frame whereby said conveyor may be oscillated relative to said axle; together with ground-contacting means hinged to the forward end of said frame and engaging said conveyor box whereby the latter may be raised and lowered in conformity with the contour of the ground.

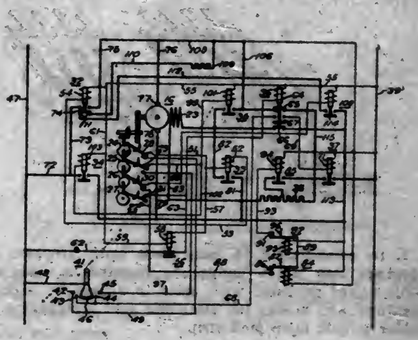
1,751,244. VALVE-ACTUATING MECHANISM. JOSEPH MCNULTY, Philadelphia, Pa. Filed Apr. 19, 1928. Serial No. 271,188. 10 Claims. (Cl. 123—90.)



1. In combination with a gas engine provided with spring actuated inlet valves, a cam shaft and cams for opening said valves, of levers co-operating with the valves and adapted to temporarily hold them in open positions, a pair of shaft sections, one of which is axially adjustable relative to the other, one of said sections being geared to the cam shaft, and cams carried by the other shaft section for actuating the levers to release the valves.

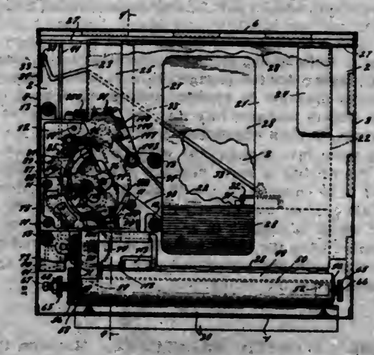
1,751,245. MANIPULATOR PUSHER HEAD. PHELAN MCSHANE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 18, 1927. Serial No. 212,619. 7 Claims. (Cl. 80—48.)

7. In a rolling mill, in combination, a manipulator pusher head, a motor for actuating the pusher head, a resistor to control the current flowing in the motor, switches for short-circuiting a portion of the resistor, actuating coils for the switches, said actuating coils being connected across the armature of the motor and being responsive to the counter-electromotive force developed by the motor and



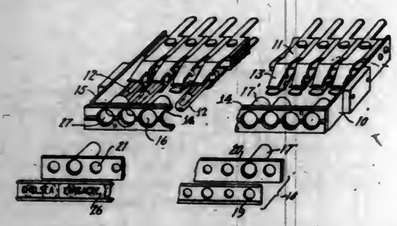
adapted to operate the switches upon different voltages to vary the resistance in series with the armature during starting and acceleration and to provide resistance in series with the motor armature after it has reached full speed and before it is stalled by the jamming of the pusher head.

1,751,246. COIN-CONTROLLED MECHANISM. LOUIS H. MORIN, New York, N. Y., assignor, by mesne assignments, to Doehler Vending Machines, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 7, 1927. Serial No. 238,288. 17 Claims. (Cl. 194—88.)



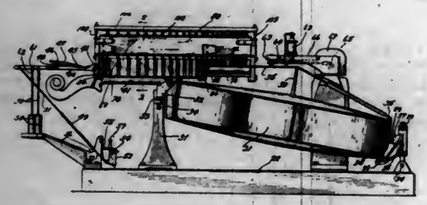
1. In combination in a coin controlled mechanism, a normally continuously idly rotatable driving member, a rotatable operating member which is normally idle and disconnected from said driving member, a normally freely idly movable coin carrier, manually operable means independent of a coin for concomitantly operating the coin carrier and rotating said driving member in one direction to an unlimited extent, and a normally ineffective coupling device to be made effective by a coin moved by the coin carrier to connect said operating member to said driving member to be driven thereby independently of the coin through the intermediary of the coupling device and then after said operating member has been rotated to a predetermined extent said coupling device acting automatically to disconnect said operating member from said driving member.

1,751,247. DESIGNATION DEVICE. EMIL C. MUELLER, Jr., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 18, 1925. Serial No. 37,957. 7 Claims. (Cl. 40—10.)



1. In combination, a lamp jack strip provided with openings into which lamps are inserted, a designation strip holder provided with holes in alignment with said openings, and means for attaching said designation strip holder to said lamp jack strip.

1,751,248. SELF-PLAYING STRINGED INSTRUMENT. BRUNO RADTKE, Libertyville, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 8, 1928. Serial No. 259,994. 5 Claims. (Cl. 84—11.)



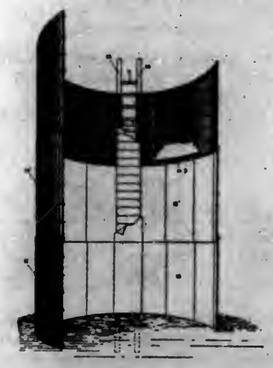
4. In a self-playing stringed instrument, the combination of playing devices engageable with the strings, tremolo devices operable to produce endwise movement of the strings, fingers movable into and out of engagement with the strings, devices engageable with said fingers for moving the same into engagement with the strings, each said finger comprising a split member one part of which is adapted to be engaged by one of said actuating devices and to be held against movement with the string and the other part of which is adapted to engage the string and to move therewith during the playing of the instrument, and means for holding said first-mentioned part of the finger against movement with the string.

1,751,249. ACOUSTIC TREATMENT. MAURICE C. ROSENBLATT, Philadelphia, Pa. Filed June 23, 1927. Serial No. 201,021. 6 Claims. (Cl. 181—30.)



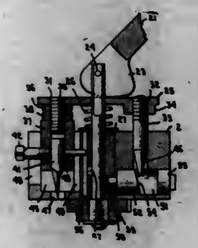
1. A step in an acoustic treatment process that consists in mechanically forming a multiplicity of substantially identical visually insignificant surface piercing pores in an otherwise relatively non-porous surface of acoustic material.

1,751,250. PORTABLE SILO. SAMUEL D. RUTH, Beatrice, Nebr., assignor to The John H. Von Steen Company, Beatrice, Nebr., a Corporation of Nebraska. Filed June 29, 1928. Serial No. 289,280. 2 Claims. (Cl. 20—1.4.)



2. In a portable silo, a plurality of cylindrical sections adapted to be placed in superposed relation and consecutively decreasing in diameter from the bottom section upwardly and adapted to overlap at their adjacent ends, an impervious lining carried by each section and secured to the upper edge portion thereof and adapted to be clamped between the overlapping ends of adjacent sections to hold the lining in place, and means for securing the overlapping ends together for securing the sections one upon the other.

1,751,251. CAN-OPENING APPARATUS. DAVID P. SAWYER, Cleveland, Ohio, assignor to Economy Products Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 14, 1925. Serial No. 9,123. 2 Claims. (Cl. 30—3.)

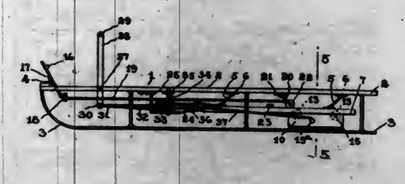


1. A can-opening device comprising a support, a vertical spindle rotatably mounted in said support, a toothed wheel carried by the lower end of said spindle, a crank handle pivoted to the upper end of said spindle for rotating the same, a cutter reciprocably associated with said support, means on said crank handle for moving said cutter downwardly beneath said support, means permitting said toothed wheel and cutter to be moved toward each other before said cutter has reached its limit of downward motion, and cam means for moving said wheel toward said cutter.

1,751,252. SELF-PROPELLED SLED. CHARLES SCHUBERT, Long Island City, N. Y. Filed Mar. 22, 1928. Serial No. 263,660. 3 Claims. (Cl. 208—158.)

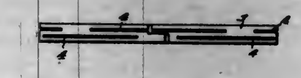
1. A device of the character described comprising a sled supporting structure, a swinging carriage disposed beneath said structure, foot controlled means for actuating

said swinging table means controlling the limit of movement of said carriage, spring controlled means for assisting the movement of said carriage, a single propeller shoe mounted in and slidable with relation to said swinging carriage, hand controlled means for actuating said propelling shoe, means arranged to thrust said propelling



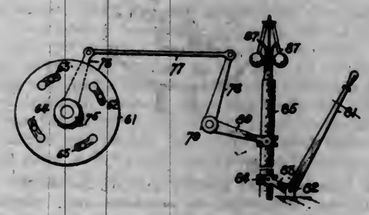
shoe into contact with the riding surface of said sled by reason of the forward movement of said swinging carriage, means for actuating said propelling shoe when same is in contact with such riding surface independent of the means for actuating said carriage, and brake means provided by said propelling shoe when the actuating means therefore is held against movement.

1,751,253. PISTON RING. DEAN M. SOLENBERGER, Cleveland, Ohio, assignor to The Simplex Piston Ring Company of America, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 16, 1923, Serial No. 632,290. Renewed Sept. 12, 1929. 3 Claims. (Cl. 74—109.)



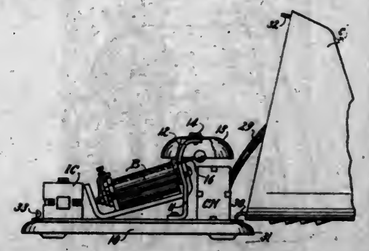
1. A one piece piston ring having an upper and a lower circumferential series of slots, the said ring being provided with a stepped split joint comprising overlapping tongues, the slots in one series being staggered with respect to those in the other series, and one of the slots extending circumferentially across the joint and dividing one of said tongues into two portions.

1,751,254. FUEL INJECTING AND IGNITING MEANS FOR OIL ENGINES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del., a Corporation of Delaware. Filed May 25, 1922. Serial No. 563,735. 18 Claims. (Cl. 123—32.)



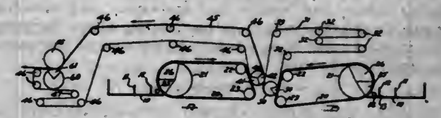
1. In an internal combustion engine, a cylinder, a plurality of fuel inlet valves therefor, means for opening said valves, and adjustable means whereby the number of valves opened by said first-named means may be varied.

1,751,255. CRADLE-TYPE TELEPHONE DESK SET. RUDOLPH FRANK STEHLIK, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Apr. 2, 1928, Serial No. 266,576, and in Belgium Dec. 20, 1927. 7 Claims. (Cl. 179—100.)



1. In a desk telephone instrument having a hinged cover with a sloping front, a base, and a signalling device supported on said base in a plane parallel to the sloping front of said cover.

1,751,256. METHOD OF AND APPARATUS FOR MAKING PAPER. JOHN TRAQUAIR, Chillicothe, Ohio, assignor to The Mead Pulp & Paper Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 3, 1926. Serial No. 99,530. 11 Claims. (Cl. 92—39.)



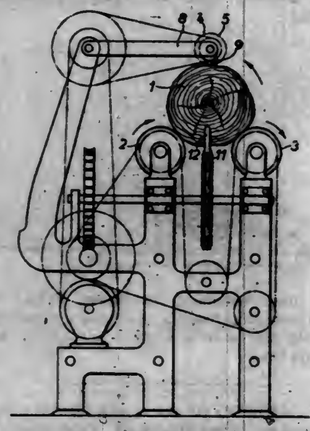
1. In the manufacture of paper, the method of forming a composite web which is free from two-sidedness which comprises forming a component web on one traveling wire, forming a second component web on another traveling wire, removing by suction each component web from its respective traveling wire, and bringing the said component webs so formed in contact with each other with the wire sides together to unite the same.

1,751,257. HOLDER FOR DISINFECTANTS, DEODORANTS, AND THE LIKE. JULIUS C. VALLEBUONA, Atlanta, Ga., assignor of fifty per cent to Leo Loeb, New York, N. Y. Filed Jan. 12, 1927. Serial No. 160,536. 4 Claims. (Cl. 299—24.)



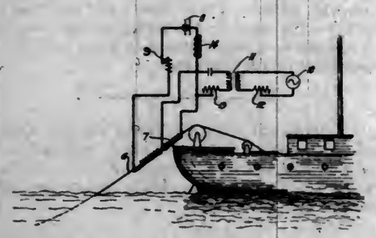
1. A device of the character described comprising a holder for disinfectant and the like, said holder having provision for free escape of fumes therefrom and having an aperture in the bottom thereof and a removable receptacle arranged below said aperture to collect liquid dripping from said holder through said aperture.

1,751,258. BARK-STRIPPING MACHINE. HUBERT VOGL, Neu Ullersdorf, Austria. Filed July 3, 1928. Serial No. 290,206, and in Austria June 28, 1927. 7 Claims. (Cl. 144—208.)



1. In a machine for stripping the branches and then the bark from logs, the combination of means for simultaneously rotating and conveying the logs longitudinally thereof, means for stripping the bark from the logs during rotary and longitudinal movement, and swinging angularly disposed rotary driven cutting means for stripping the branches from the logs in advance of the means for stripping the bark.

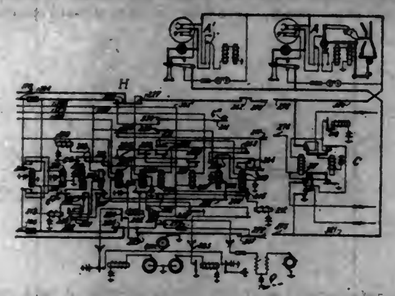
1,751,259. TREATING LOADED SUBMARINE CABLES. JESSE F. WENTZ, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1927. Serial No. 221,714. 5 Claims. (Cl. 178—45.)



1. The method of treating a loaded submarine signaling cable, which comprises applying a direct current field to the cable in a direction opposite to and commensurate in intensity to that expected to be produced in said cable by the earth's field when in use, and simultaneously applying an alternating field sufficient to saturate the loading of said cable, and gradually reducing to zero the alternating field acting upon successive portions of said cable.

1,751,260. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor to Automatic Electric, Inc., Chicago, Ill., a Corporation of Delaware. Original application filed May 6, 1920, Serial No. 379,217. Divided and this application filed Dec. 11, 1925. Serial No. 74,679. 10 Claims. (Cl. 179—17.)

1. In a telephone system, a party line, a series of automatic switches including a final connector switch for extending a connection to said line, a common code ringing machine and a plurality of common generator leads extending therefrom, a source of ringing current, means in said ringing machine for connecting said source to said leads at intervals in accordance with different codes, a pick up relay in said connector for connecting one of said leads to the connected called line to signal a desired



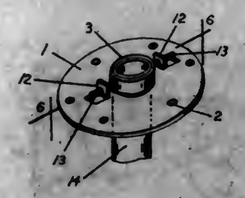
station thereon, and a circuit for said relay controlled by said ringing machine and effective to energize said relay only while the said generator leads are disconnected from said source of ringing current.

1,751,261. SPRING. WYLIE G. WILSON, Jersey City, N. J., assignor to Everlasting Valve Company, a Corporation of New Jersey. Filed Oct. 3, 1928. Serial No. 310,170. 7 Claims. (Cl. 267—62.)



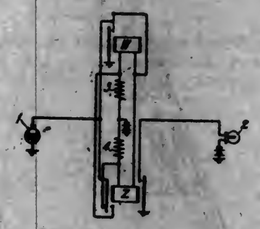
1. A new article of manufacture comprising a spring in the form of a progressive helix or hollow cone, the convolutions of said helix being such that when the spring is axially compressed said convolutions can pass each the other without contact, the termini of said helix lying approximately in a plane parallel with said axis and common to one radius of said axis.

1,751,262. BRACKET COUPLING FOR APPARATUS FOR ELECTRIC-LIGHTING SYSTEMS. GEORGE RUDSTON BROWN, Croydon, near Sydney, Australia. Filed Aug. 31, 1926, Serial No. 132,718, and in Australia Dec. 11, 1925. 2 Claims. (Cl. 247—20.)



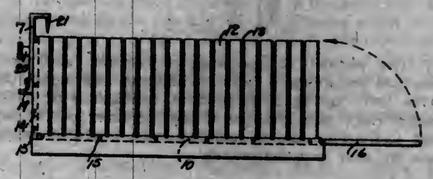
1. A stamped metal bracket coupling for electric lighting systems, comprising a relatively thin metal disc having a struck up cylindrically shaped neck portion provided externally and internally with smooth surfaces, the disc being provided with integral lugs struck up from the thin metal on opposite sides of the neck portion, and clamping screws adjustable through said lugs and neck, whereby close electrical joint connections may be established with said neck.

1,751,263. ELECTRICAL SWITCHING SYSTEM. OTTO CESARINI, Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1927. Serial No. 187,971. 6 Claims. (Cl. 175—378.)



4. A relay arrangement for translating a series of electrical impulses received at one rate into a series of electrical impulses at another rate comprising a control relay having an armature and a make-before-break contact point arrangement, a signal relay having an armature, a front and back contact point arrangement, a protective resistance for each of said relays, a means for producing a series of electrical impulses at one rate and a circuit arrangement interconnecting said relays, said resistances, said contact points and said impulse producing means whereby in response to two complete cyles of said impulse producing means said relays will operate in a cycle consisting of first an energization of said control relay, second an energization of said signal relay, third a deenergization of said control relay and fourth a deenergization of said signal relay, and a signal circuit contact point controlled by said signal relay.

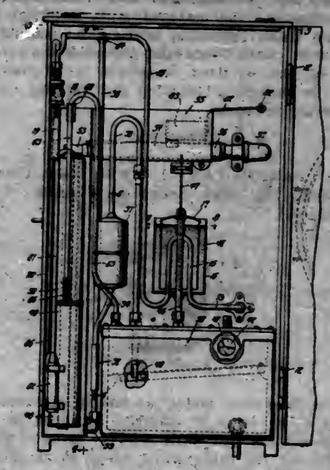
1,751,264. CHEESE CUTTER. HERMAN CROSS and THOMAS J. SLAGLE, Blytheville, Ark. Filed Mar. 1, 1928. Serial No. 258,156. 1 Claim. (Cl. 31—22.)



In a cheese cutter, the combination with a rectangular casing, comprising a base plate, side walls having equally spaced slots extending from the top thereof to said base, through which slots cutting means may be operated, a rigid end wall, and a hinged end wall, of a member carrying a plurality of vertically depending teeth, said member being mounted on said rigid end plate and vertically slidable thereon, and means for clamping said member to said end plate, whereby said teeth may be forced into and rigidly secure a block of cheese to be cut.

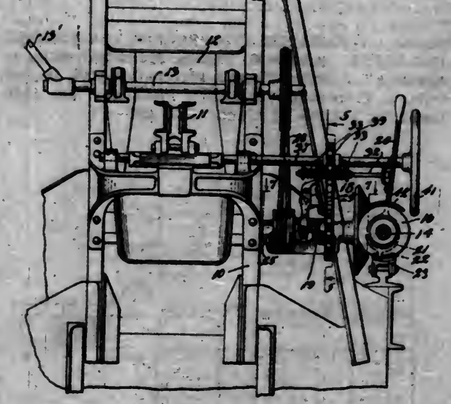
1,751,265. CO_2 RECORDER. ARTHUR B. CUNNINGHAM, Chicago, Ill., assignor to Republic Flow Meters Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 16, 1921. Serial No. 501,077. 17 Claims. (Cl. 23—256.)

1. An instrument for indicating the nature of gases comprising means for drawing a definite predetermined quantity of gas from a source of supply, and means establishing free communication between the gas and the



atmosphere for submitting the gas thus drawn to the pressure of the atmosphere and for sealing off the predetermined quantity while at said atmospheric pressure.

1,751,266. POWER SWING MECHANISM FOR PAVER BOOMS. JOHN DANIEL, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Sept. 13, 1927. Serial No. 219,342. 10 Claims. (Cl. 214—17.)



1. In a concrete paver in combination, a movable chute for a mixing drum, a swingable boom adjacent said chute, an operating shaft operatively connected to said chute and said boom, and common control means for effecting operation of either said chute or said boom from said shaft.

1,751,267. NONFIBROUS CELLULOSE FLOUR AND PROCESS OF MAKING SAME. ELTON R. DARLING, Decatur, Ill., assignor, by mesne assignments, to Cornstalk Products Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 7, 1928. Serial No. 283,743. 9 Claims. (Cl. 83—42.)

1. The process of preparing non-fibrous cellulose flour from cotton seed hulls which comprises heating said hulls

for a predetermined time and at a predetermined pressure in an oxidation solution of such strength that the constituents of the said hulls other than cellulose are oxidised; washing the material with water at the end of the said time; thereupon heating the material under pressure with caustic soda and sodium sulphite whereby removal of the oxidised materials is effected; again washing the material; bleaching the material and washing and drying the same.

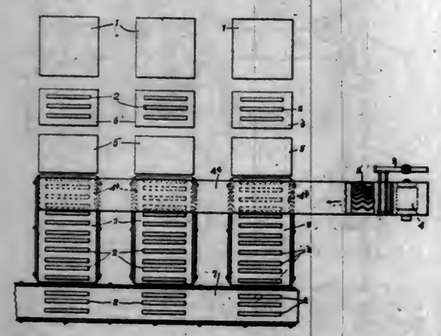
1,751,268. BAKING PAN. LOUIS H. DEBS, Chicago, Ill. Filed Sept. 27, 1928. Serial No. 308,669. 6 Claims. (Cl. 153—2.)



1. A one-piece sheet metal pan having upstanding angular walls with excess of material arranged in two ply folds adjacent the pan walls, one ply being extended upwardly beyond the other which stops short of the edge of the proximate wall, the edges of the pan, including those of the higher fold plies, being curled laterally to provide a curved reinforcement extending around the pan edges and corners.

6. The method of producing a one-piece pan having a self-reinforcing edge which consists in forming from a suitable blank of sheet metal a plurality of angular marginal walls having at each corner a two ply fold, in bending the folds around adjacent certain of the pan sides, and in curling outwardly the edges of the several walls and proximate edges of the folds in such manner as to interlock the fold edges with those of the adjacent pan sides.

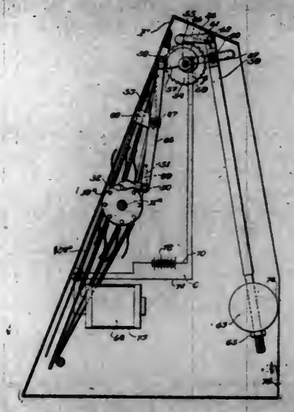
1,751,269. APPARATUS AND PROCESS FOR TEMPERING STEEL. ALBERT O. DENNIS, Springfield, Ohio, assignor to The Central Brass & Fixture Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 20, 1928. Serial No. 271,596. 1 Claim. (Cl. 266—6.)



In a bar-tempering apparatus, means for forming and directing a stream of air, means for injecting sprays of water into said stream, means for removing the surplus of water from said air stream, and means for directing said stream onto said bars.

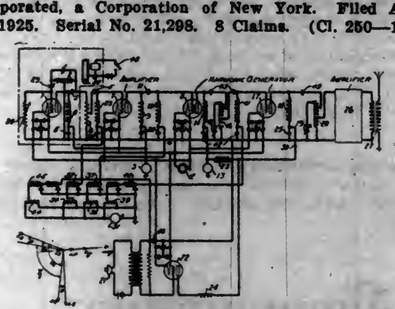
1,751,270. DISPLAY APPARATUS. JOSEPH EITEL, Chicago, Ill. Filed Jan. 17, 1924. Serial No. 686,855. 14 Claims. (Cl. 40—51.)

1. In a display apparatus, in combination, a revoluble support, a plurality of relatively angularly displaceable radial display members carried by said support, and compressible means on one of said display members acting on an adjacent member when released for moving said mem-



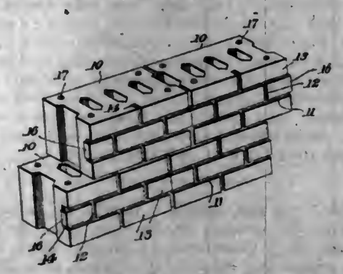
bers to cause such relative angular displacement, and means for imparting movement to said revoluble support whereby to cause such displacement of said display members.

1,751,271. RADIO TRANSMITTING APPARATUS. JOHN F. FARRINGTON, Flushing, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Apr. 7, 1925. Serial No. 21,298. 8 Claims. (Cl. 250—17.)



7. The method of operating a vacuum tube which comprises supplying it with oscillations and modulating waves and causing it to produce oscillations of a frequency which is a multiple of the frequency of the supplied oscillations and to modulate said produced oscillations by said supplied waves.

1,751,272. BUILDING BLOCK. DAVID O. FORMAN, Morgantown, W. Va. Filed July 27, 1927. Serial No. 208,851. 2 Claims. (Cl. 72—86.)



1. In a cement building block, a block having its main body portion formed of a cement mixture and having longitudinal and transverse intersecting grooves in one face to simulate brick and mortar courses and strips of a material colored differently from the bricks and forming the bottoms of the grooves of the mortar courses, flat parallel ends for the block and spacing projections extending beyond the ends and one horizontal face of the block, the projections at the ends of the block having V-shaped mortar receiving notches therein.

1,751,273. DISPLAY FIGURE AND METHOD OF MAKING SAME. RALPH A. FREUNDLICH, Brooklyn, N. Y. Filed July 20, 1929. Serial No. 379,711. 2 Claims. (Cl. 92—54.)



1. A display figure or the like, provided with a coating, comprising glue, white lead, French zinc, glycerine and cottonseed oil in about the proportions specified.

1,751,274. PROCESS FOR OBTAINING THIOCYANATES OF THE ALKALINE-EARTH METALS. ROBERT R. FULTON, Wilkinsburg, Pa., assignor to The Koppers Company, a Corporation of Pennsylvania. Filed Dec. 23, 1926. Serial No. 156,756. 10 Claims. (Cl. 23—76.)

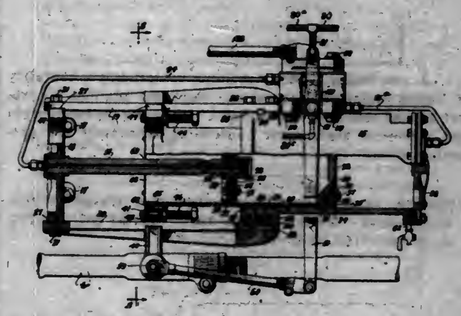
5. The process of obtaining a solution of alkaline earth metal thiocyanate from gas purification liquor containing sodium thiosulphate and sodium thiocyanate which compriaes treating the liquor with a soluble alkaline earth metal salt, heating the liquor to such a point that alkaline earth metal thiosulphate will be decomposed to insoluble alkaline earth metal sulphite and sulphur, cooling the liquor and filtering it to remove insoluble material.

1,751,275. PACKAGED PLAYING BALL. JOHN R. GAMMETER, Akron, Ohio, assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed Apr. 19, 1928. Serial No. 271,818. 2 Claims. (Cl. 206—46.)



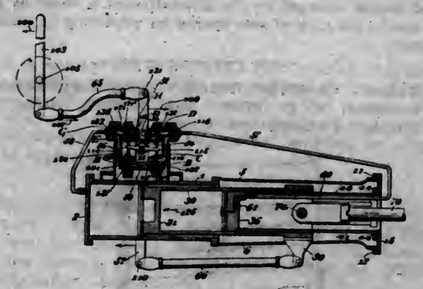
1. In combination, an inflated playing ball, the elastic components of which are at a reduced tension, a substantially rigid cap on the ball and a one-piece jacket enclosing the ball and cap and having a portion twisted upon itself over the cap, said jacket being shrunk on the ball and relieving the wall of pressure of the contained fluid.

1,751,276. POWER MECHANISM FOR CONTROLLING THE REVERSE GEARS OF LOCOMOTIVES. EDMOND C. KARIBO, EDWIN S. PEARCE, and RAYMOND W. RETTERER, Indianapolis, Ind., assignors to Transportation Devices Corporation. Filed Oct. 9, 1920. Serial No. 415,864. 18 Claims. (Cl. 121—41.)



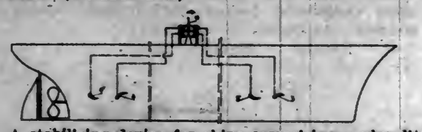
1. In a locomotive provided with a reverse gear, the combination of a reverse lever, a reach rod extending from said lever to the said reverse gear, means whereby the said lever may be disconnected from the said reach rod, a stationary cylinder, a floating cylinder having a closed end which projects into the said stationary cylinder, a stationary piston situated in the said floating cylinder, valve control means for regulating the inlet and outlet of a fluid under pressure into the said stationary and floating cylinders to effect reciprocal movements of the latter, and arms rigidly connected with and projecting laterally from said floating cylinder and having connection with said reach rod.

1,751,277. POWER-REVERSE-GEAR MECHANISM. EDMOND C. KARIBO, EDWIN S. PEARCE, and RAYMOND W. RETTERER, Indianapolis, Ind., assignors to Transportation Devices Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed June 22, 1922. Serial No. 570,182. 5 Claims. (Cl. 121—41.)



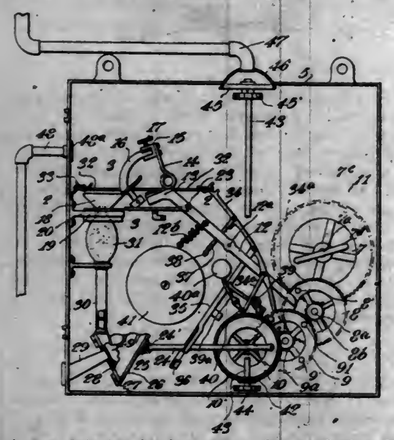
1. In a power reverse gear mechanism, the combination of a stationary cylinder having oppositely disposed projections which extend forwardly therefrom, the forward ends of which are provided with outwardly extending flanges, a head plate secured to said flanges, a floating cylinder projecting into the said stationary cylinder, which floating cylinder is provided at its outer end with a cross-head ring member, bearing blocks situated and slidable within the spaces between the said forwardly extending projections, a wrist pin extending through the said cross-head and supported at its opposite ends within the said bearing blocks, a reach rod having connection with the said wrist pin and extending forwardly therefrom in co-axial relation with respect to the said floating cylinder, and a stationary piston operating in said floating cylinder.

1,751,278. STABILIZING DEVICE FOR SHIPS. MICHEL KÉMÉLI, Paris, France. Filed Oct. 21, 1929, Serial No. 401,206, and in France Nov. 16, 1928. 6 Claims. (Cl. 114—126.)



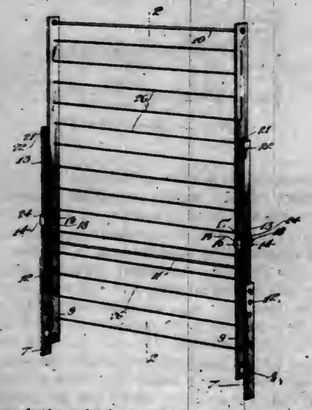
1. A stabilizing device for ships comprising a plurality of blades distributed round the ship and adapted to project beyond same for impressing a stabilizing torque thereto and a control station for controlling selectively the projection of said blades.

1,751,279. GAS DETECTOR. RUDOLPH KRAUS, Whitestone, N. Y. Filed Aug. 27, 1929. Serial No. 388,795. 9 Claims. (Cl. 116—104.)



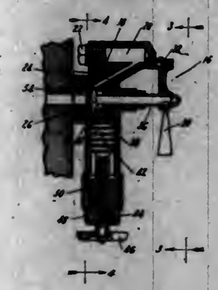
1. A gas detector having means for producing intermittently igniting sparks, means for causing a gas charged movement of air in the path of the sparks so produced, and means released by the generation of a flame by gas flowed in the path of said sparks for producing an audible signal.

1,751,280. CLOTHES DRIER. LOUIS LEITZENBERGER, Irvington, N. J. Filed Mar. 6, 1928. Serial No. 259,450. 4 Claims. (Cl. 211—99.)



2. In a clothes drying apparatus having a bar and a strut adapted to hold the bar in a position of adjustment, a bolt carried by said bar and adapted to engage a notch in an edge of the strut, and means engaging said strut and slidably mounted on the bolt to move the strut from engagement with the bolt.

1,751,281. ENGINE. HOWARD M. LEONARD, South Bend, Ind., assignor to Gernandt Motor Corporation, Chicago, Ill., a Corporation of Illinois. Filed June 29, 1927. Serial No. 202,263. 11 Claims. (Cl. 123—48.)



4. A compression-varying device comprising, in combination with an engine having a cylinder, a series of chambers arranged in an arc, and a valve movable through an angle corresponding to said arc for connecting and disconnecting said chambers from said cylinder.

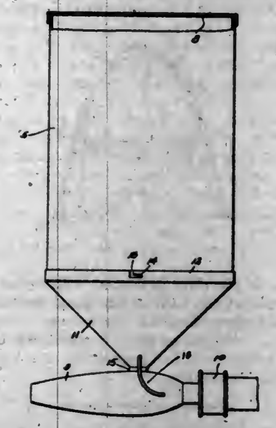
1,751,282. SHOE AND METHOD OF MAKING SAME. HENRY LIFSCHUTZ, Brooklyn, N. Y. Filed Dec. 26, 1929. Serial No. 416,646. 7 Claims. (Cl. 36—18.)



1. In a shoe of the class described, a sole, a heel base, an elongated shank portion integral with said sole and heel base and connecting same together, an upper stitched to said sole, shank and heel base portions, said upper including counters, said shank portion being bent to form a T in cross section and secured between the inner edges of said counters to form a rigid support between said sole and heel base, and a heel secured to said heel base.

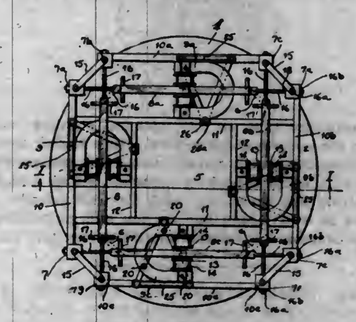
1,751,283. PULVERIZED-FERTILIZER NOZZLE SPRAY. ASA B. LOWE, Seattle, Wash. Filed May 5, 1928. Serial No. 275,482. 1 Claim. (Cl. 299—84.)

A device for spraying pulverized fertilizer comprising a hopper for the reception of the fertilizer having an inverted conical shaped bottom wall provided with an axial outlet feed opening, means for varying the effective size of the opening, an inverted feed cone receiving the bottom wall and detachably connected with the hopper having an axial outlet opening therein, the feed cone being of greater slope than the bottom wall to space the outlet opening from the feed opening, a water inlet pipe extending between the bottom wall of the hopper and the feed cone, a nozzle extending at right angles to the vertical axis of the hopper, and an outlet pipe communicating with the



axial outlet opening of the feed cone and extending into said nozzle and terminating in the same plane and concentric with the mouth of the nozzle.

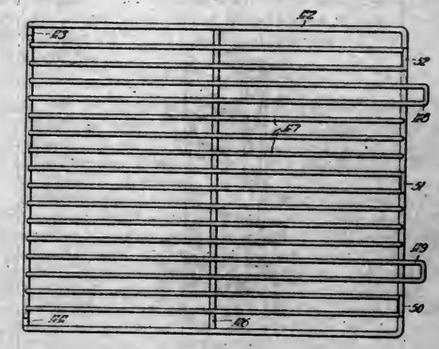
1,751,284. ELECTROMAGNETIC SOUND REPRODUCER. GEORGE MAEHREN, Pacific Grove, Calif., assignor of one-third to Rocco Elio and one-third to Francis H. Davis, Monterey, Calif. Filed Mar. 29, 1928. Serial No. 265,599. 7 Claims. (Cl. 179—109.)



4. An electromagnetic sound reproducer comprising a resonant body, two parallel armatures carried by the body and axially disposed over two companion magnets energized through the medium of an audio-frequency circuit, a duplicate set of armatures and magnets carried by the body and disposed at right angles to the former, said armatures crossing each other in different planes so as to form a diagrammatic square, and bridge means for the support of said armatures.

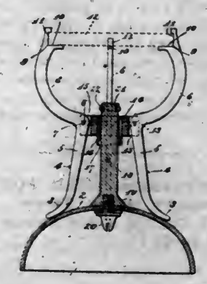
1,751,285. REFRIGERATOR COUNTER. ARTHUR MALLING, Cleveland, Ohio, assignor to The Schwenger-Klein Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 13, 1928. Serial No. 254,021. 1 Claim. (Cl. 211—181.)

A platter rack for refrigerator counters comprising a frame member having supporting legs thereon for supporting said rack with one end higher than the other, spaced bars extending longitudinally of and secured on said frame and certain of said bars having portions thereof extending beyond said frame at said lower end to form abutments to maintain said tray spaced from the wall



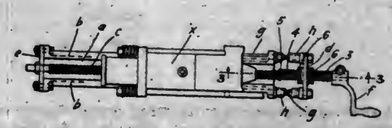
of the counter, certain other of said bars having the ends at the lower end of said tray turned up to prevent platters from sliding beyond the end.

1,751,286. WATCH STAND. FRANK XAVIER MANTSION, Philadelphia (Holmesburg), Pa. Filed Apr. 6, 1928. Serial No. 267,908. 5 Claims. (Cl. 81—6.)



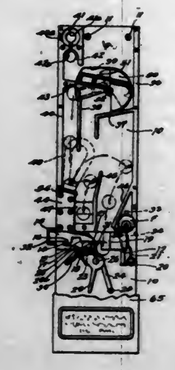
2. A watch stand, comprising a base, a standard, a member gravitationally slidably mounted on the standard, a plurality of arms pivotally mounted on said member, each of said arms having a section engaging said base and an upwardly-extending fork section for receiving an article to be supported.

1,751,287. MOUNT FOR PERCUSSIVE DRILLS. GUSTAVE M. NELL, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 24, 1927. Serial No. 242,356. 15 Claims. (Cl. 255—45.)



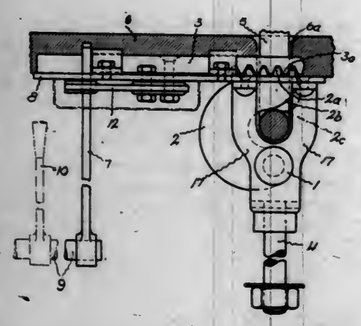
1. The combination with a percussive drill of a shell mounting providing slide ways for said drill, mechanism including a feed screw for moving said drill on said mounting, said mounting providing fixed bearings for said screw, and means permitting limited yielding movement of said screw relative to said bearings for absorbing the shocks and vibration incident to the operation of the drill.

1,751,288. COIN-CONTROLLED DOOR LOCK. JAMES E. OLVIS, Los Angeles, Calif. Filed Jan. 28, 1929. Serial No. 335,500. 8 Claims. (Cl. 194—74.)



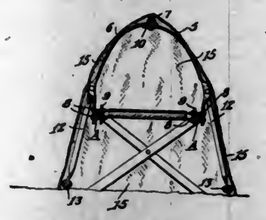
1. A door lock mechanism comprising the combination of a slidable bolt having a talon, means tending to project said bolt into locking position, a knob spindle, a coin wing connected to said spindle and having a projection for engaging said talon and retracting said bolt, said talon being disposed to be out of operative engagement by said projection when said bolt is in projected locking position, a coin seat on said coin wing, a coacting coin seat on said bolt whereby a coin may be interposed between said seats to form a coupling between said coin wing and bolt to provide for initiating retractive movement of said talon to position latter for engagement by said projection whereby completion of the retractive movement may be effected by said projection.

1,751,289. DISENGAGING GEAR FOR LIFEBOATS. PER BOTVID PERSSON, Malmo, Sweden. Filed July 16, 1929, Serial No. 378,719, and in Sweden July 21, 1928. 5 Claims. (Cl. 9—28.)



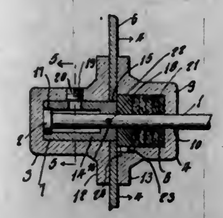
1. A disengaging gear for life boats comprising at each end of the boat, a turnable hook member, a toothed segment connected therewith, a slidable toothed rack member engaging said segment, locking means coacting with said rack member and normally preventing the displacement of the same into a hook releasing position, means for simultaneous release of said locking means at both ends of the boat, and means for positively displacing the rack member into a hook releasing position after release of the locking means.

1,751,290. NET SUPPORT FOR CAMPERS' COTS. HAROLD L. RACE, Idalia, Colo. Filed Aug. 5, 1929. Serial No. 383,487. 4 Claims. (Cl. 135—5.1.)



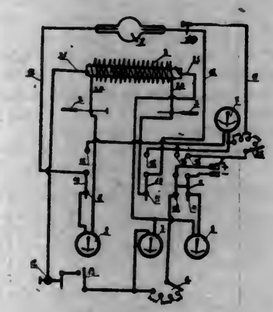
1. A frame of the class described, embodying end bows, clamping means at the ends of the bows for clamping the bows to a supporting structure, leg members pivotally connected with the bows, a bar for connecting the bows at the tops of the bows, bars for connecting the leg members, and a cover for the frame.

1,751,291. WHEEL HUB FOR AGRICULTURAL MACHINES AND THE LIKE. HENRY W. ROBBINS, Harlingen, Tex. Filed June 9, 1927, Serial No. 197,587. Renewed Aug. 8, 1929. 3 Claims. (Cl. 308—95.)



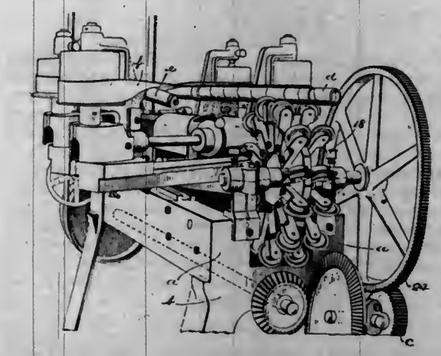
1. In combination, an axle spindle, a hollow axle box fixed to the spindle and provided with a radial opening, a hub section mounted on the axle box, a hub section mounted on the axle spindle, packing mounted within said second hub section and contacting with the axle spindle, a disk mounted in said second hub section and contacting with the axle box, and means securing the hub sections together.

1,751,292. COMBINATION X-RAY RADIATOR. STEFAN SCHVACHO, Trencianske Teplice, Lazne, Czechoslovakia. Filed Oct. 29, 1927. Serial No. 229,692. 1 Claim. (Cl. 171—97.)



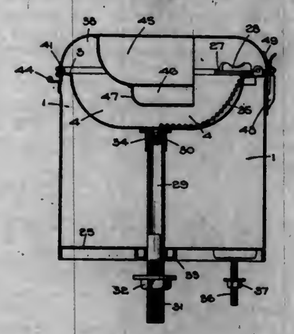
A convertible apparatus for the supply of current to an X-ray generator, a Finsen lamp, or quarts lamp, and an electromagnetic lamp, comprising a service distributing board, current supply connections, a two pole switch on said board in circuit with the current supply connections, switch contacts constituting the terminals of separate circuit leads, and arranged in pairs, a transformer, the primary coil of which is in said circuit through one pair of said switch contacts, and a current interrupter in circuit with said primary coil, and constituting a path through which said circuit is completed; a second circuit leading from the second pair of switch contacts through and including the secondary coil of said inductor and having connections adaptable to an X-ray tube, and to the other forms of lamps, the two circuits having their leads and conductors mounted on said distributing board and constituting a unitary system, controllable through said switches arranged and adapted to switch into use alternately high and low tension currents.

1,751,293. CUTTING DEVICE. HAROLD W. SHERMAN, Green Bay, Wis. Filed June 30, 1927. Serial No. 202,653. 4 Claims. (Cl. 164—61.)



1. A rotary cutter comprising a disc-like body having its peripheral edge of polygonal form, members extending radially from said body and in line with the transverse centers of each of the polygonal faces of the edge portion thereof, and pairs of rotary cutters journaled in the opposite sides of the outer ends of said members.

1,751,294. WASHBASIN APPLIANCE. CLIFFORD SPITAL, Birmingham, England. Filed Sept. 5, 1929, Serial No. 390,564, and in Great Britain Dec. 22, 1928. 5 Claims. (Cl. 4—167.)



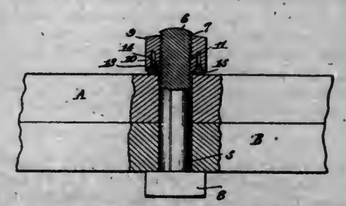
1. A wash basin comprising a storage tank for water, the top of which is provided with a depression forming a basin, a lift pump for transferring liquid from the storage tank to the basin and disposed within the storage tank and supported by the top of the said tank, the top of the storage tank also having a filler opening, a closure member for the filler opening, a dished lid adapted to close over the tank so as to enclose the basin, the upper end of the pump, and the filler opening, and a discharge tube leading from the said basin through the storage tank to the exterior thereof, and serving as a means of securing the wash basin to a support.

1,751,295. PRODUCTION OF BASIC LEAD CHROMATE. ALEXANDER STEWART, Roselle, N. J., assignor, by mesne assignments, to U. S. Chemical Products Co., Inc., a Corporation of Rhode Island. Filed Dec. 9, 1927. Serial No. 239,007. 8 Claims. (Cl. 23—57.)

6. The method of preparing basic lead chromate from lead sulfate, which comprises suspending 2000 lbs. of the lead sulfate in water, adding from 461 to 508 lbs. of sodium dichromate with 411 to 398 lbs. of sodium hydroxide thereto, heating to approximately 70° C. and agitating until the conversion to basic lead chromate is effected.

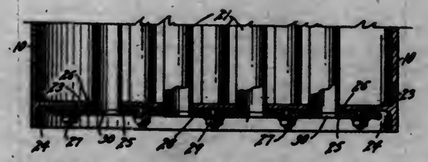
7. The method of preparing basic lead chromate from a sulfate compound of lead, which includes the treatment at a temperature not exceeding approximately 70° C. of the lead product simultaneously with sodium dichromate and sodium hydroxide, the amount of the latter being sufficient to render available all of the dichromate as chromate to provide for the conversion of not substantially exceeding 50% of the total lead content to chromate as well as to convert the remainder of the lead to oxide, allowing the basic lead chromate to settle and removing the liquid therefrom, washing the residue with warm water until free from sodium sulfate, filtering, and drying said residue at 120° C.

1,751,296. NUT LOCK. NATHANIEL SUTCLIFFE, Newark, N. J. Filed June 7, 1929. Serial No. 369,215. 1 Claim. (Cl. 151—19.)



A nut lock comprising a bolt having a threaded shank, a nut having concentric walls spaced apart, the outer one of said walls being continuous and the inner one split at diametrically opposite points, the said walls respectively provided with oppositely beveled faces, and a split washer of substantially spiral formation associated with the bolt and said nut and provided with oppositely beveled faces adapted to co-act with the corresponding faces of said concentric walls, one terminal of said washer having a beveled face adapted to permit of retrograde rotation of the nut upon the bolt and to freely cause the split ends of one of said concentric walls to freely pass over said washer.

1,751,297. HEATING SYSTEM AND BOILER CONSTRUCTION. AMOS H. SWANDER, Worland, Wyo. Filed May 2, 1929. Serial No. 359,819. 4 Claims. (Cl. 122—512.)



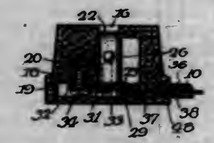
1. A boiler comprising: a boiler shell, heads in each extremity of said shell having tube holes therein; tubes ex-

tending through said boiler and through said holes; flanges formed on said tubes on the outer faces of said heads; a tube plate provided with flow openings for said tubes; and means for clamping one of said tube plates against said flanges on each of said heads so as to seal said tubes to said heads.

1,751,298. ULTRAFINE, SOFT, GRANULATED SUCROSE SUGAR. BERNARD H. VARNAU and TRUMAN B. WAYNE, Sugar Land, Tex. Filed July 23, 1927. Serial No. 208,049. 7 Claims. (Cl. 127—58.)

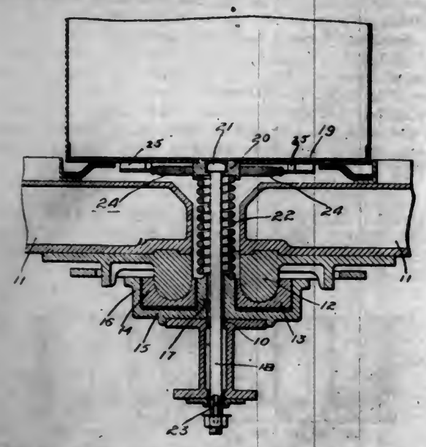
1. Granulated sucrose sugar consisting of ultra fine, soft, substantially uniform crystals substantially free from adhering syrup.

1,751,299. ELECTRIC CONNECTER. HUGO H. WERMINE, Villa Park, Ill., assignor to Belden Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1928. Serial No. 259,297. 6 Claims. (Cl. 173—338.)



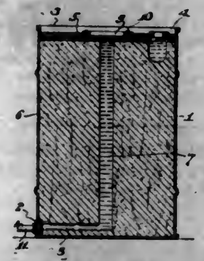
1. In a plug connecter of the class described, the combination of an insulating material body member provided with an aperture extending therethrough, a contact member having a leg portion and a flange portion extending at an angle from the leg portion, said contact member having its leg portion disposed in said aperture and its flange portion disposed against the bottom of the body member, a clamping plate independent of said contact member, disposed flatwise adjacent said flange portion, and screw means for forcing said clamping plate towards said flange whereby the clamping plate is operative to clamp an end portion of an electrical conductor between said flange portion and the plate, thereby to electrically connect said contact member and conductor.

1,751,300. VESTIBULE MOUNTING FOR HIGH-SPEED ARTICULATED CARS. WALTER S. ADAMS and ELMER LATSHAW, Philadelphia, Pa., assignors to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 28, 1929. Serial No. 389,004. 19 Claims. (Cl. 105—4.)



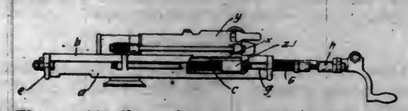
16. In combination with the adjacent ends of cars supported by a common truck, a single spring extending upwardly from the truck between the car ends, a vestibule supported therefrom and means connecting the truck and vestibule for limiting separation of the vestibule from the truck.

1,751,301. APPARATUS FOR MAKING SOAP SOLUTION. ROBERT M. BAGLEY, Haddonfield, N. J., assignor to The R. M. Hollingshead Co., a Corporation of New Jersey. Filed Mar. 20, 1929. Serial No. 348,445. 4 Claims. (Cl. 206—56.)



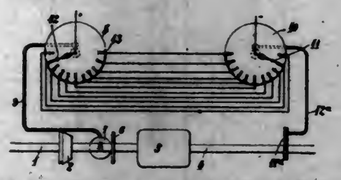
3. Combined shipping and solubilizing container adapted for containing a body of a comparatively solid coherent material, which must be transformed into a solution preliminary to use, said container having a lower opening and an upper opening, a liquid closure inoperatively carried in one of said openings, when the latter container is in transit and being adapted to be disposed in operative relation to the lower opening, when the container is in use, a body of comparatively solid material in said container intermediate said upper and lower openings, and a passageway intermediate said upper and lower openings and contiguous with said body of comparatively solid material, for the reception of a liquid solvent for solubilizing said body of comparatively solid material.

1,751,302. SHELL MOUNT FOR ROCK DRILLS. FRANK BAYLIFF, Butte, Mont., and GUSTAVE M. NELL, Detroit, Mich., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 24, 1927. Serial No. 242,383. 13 Claims. (Cl. 255—45.)



1. The combination with a percussive machine of a support providing for axial movement of said machine thereon, manually actuated means for moving said machine on said support, and resilient means for absorbing shocks and vibration of said machine in both directions.

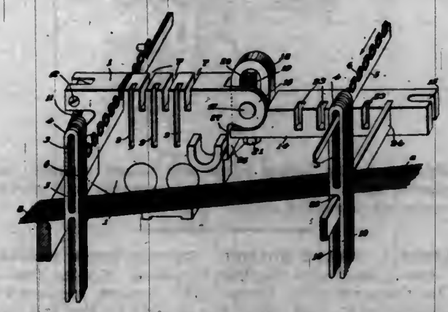
1,751,303. AUTOMATIC CHANGE-GEAR MECHANISM. RENÉ EDMOND BOUTET, Paris, France. Filed Dec. 30, 1929, Serial No. 417,461, and in France Jan. 2, 1929. 7 Claims. (Cl. 74—97.)



1. An automatic change gear mechanism comprising in combination with the driving and driven shafts of a gear box, two tachometers, means for coupling said tachometers to the two aforementioned shafts respectively,

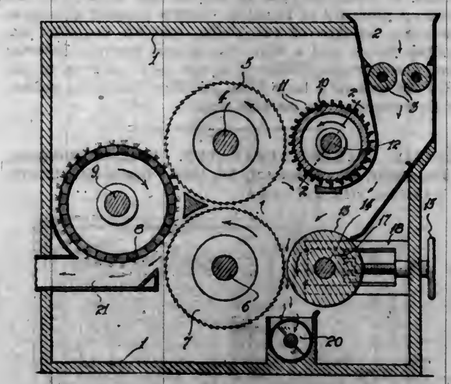
means for varying the transmission ratio between one of the aforementioned shafts and the corresponding tachometer, when it is desired to change gear, in such manner that the two tachometers will register alike when the ratio of the speeds of the two shafts is equal to the ratio of their speeds in direct drive and in the gear desired.

1,751,304. WARP-STOP MECHANISM FOR LOOMS. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Original application filed Feb. 14, 1928, Serial No. 254,201. Divided and this application filed May 22, 1929. Serial No. 365,068. 7 Claims. (Cl. 139—369.)



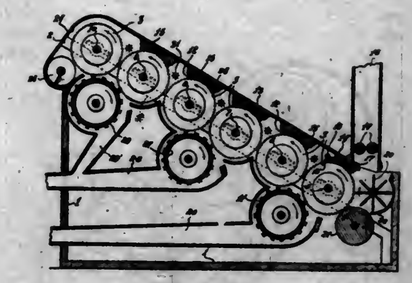
1. In a warp stop mechanism for looms, the combination of side supports, a series of drop wires having elongated slots, a stringer cap pivotally connected to each side support to swing lengthwise of the warp and provided with stringer bar supports, and a stringer bar adapted to be supported by the stringer caps when they are swung to assembly position relative to the side supports that the drop wires may be assembled on the warp thread and have the drop wire slots alined for the endwise introduction of an elongated bar.

1,751,305. COTTON GIN. FREDERICK B. CUMPSTON, Blooming Grove, Tex., assignor to Associated Factories Corporation, Dallas, Tex., a Corporation of Delaware. Filed Sept. 6, 1929. Serial No. 390,699. 17 Claims. (Cl. 19—57.)



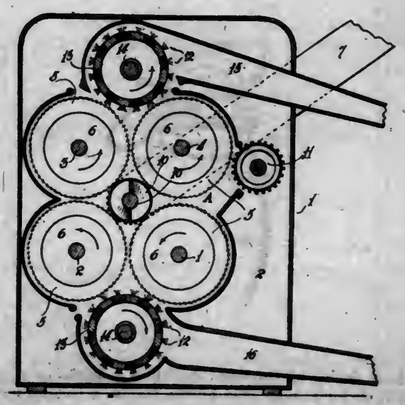
1. A ribless cotton gin, linter or delinter, comprising means for stripping cotton from the seed, said means consisting solely of coacting ginning instrumentalities rotating in the same direction about different axes and spaced apart so as not to intersect a plane placed between them and spaced just sufficently to permit passage of lint between the ginning instrumentalities, but without permitting passage of cotton seed.

1,751,306. COTTON GIN. FREDERICK B. CUMPSTON, Blooming Grove, Tex., assignor to Associated Factories Corporation, Dallas, Tex., a Corporation of Delaware. Filed Dec. 9, 1929. Serial No. 412,867. 9 Claims. (Cl. 19—57.)



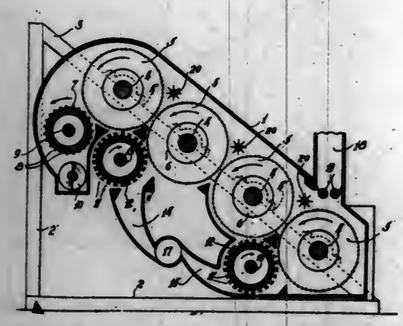
1. A ribless cotton gin, linter or delinter, comprising means for stripping cotton from the seed, said means consisting solely of a series of coacting ginning instrumentalities rotating in the same direction and spaced apart just sufficiently to permit passage of lint between the ginning instrumentalities, but without permitting passage of cotton seed, the speeds of said rotating members increasing progressively from one to another, the peripheral speed of the ginning instrumentality at the high-speed end of the series being sufficient to remove cotton seed therefrom by centrifugal force.

1,751,307. COTTON-GIN MACHINE. FREDERICK B. CUMPSTON, Blooming Grove, Tex., assignor to Associated Factories Corporation, Dallas, Tex., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 419,125. 13 Claims. (Cl. 19—57.)



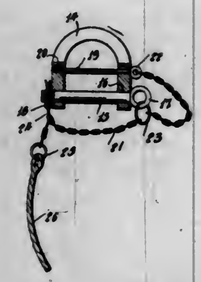
1. A cotton gin comprising a centrally located screw conveyor for passing cotton from a hopper between coacting ginning instrumentalities, said ginning instrumentalities comprising a plurality of rotating saw assemblies having their axes parallel to the axis of the conveyor, and substantially equidistant from the conveyor axis, the peripheries of adjacent saw assemblies being spaced part slightly from each other so as not to intersect a plane placed between them and spaced from the conveyor.

1,751,308. COTTON-GIN MACHINERY. FREDERICK B. CUMPSTON, Blooming Grove, Tex., assignor to Associated Factories Corporation, Dallas, Tex., a Corporation of Delaware. Filed Sept. 16, 1929. Serial No. 392,914. 15 Claims. (Cl. 19—57.)



1. A ribless cotton gin, linter or delinter, comprising means for stripping cotton from the seed, said means consisting solely of coacting ginning instrumentalities rotating in the same direction and spaced apart just sufficiently to permit passage of lint between the ginning instrumentalities, but without permitting passage of cotton seed, said ginning instrumentalities being mounted on parallel shafts whose axes are located in an inclined plane.

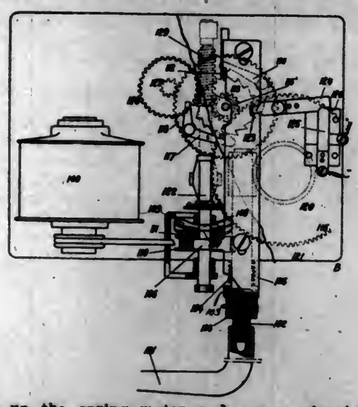
1,751,309. COLUMN SHACKLE. MILTON ENOCH DE MONE, Cambridge, Mass. Filed July 25, 1929. Serial No. 381,054. 4 Claims. (Cl. 24—115.)



1. A device of the class described comprising a frame, a pin movably supported by the frame, a locking member normally preventing detachment of the pin from the frame, and linking means attached to the locking means and pin and operable to first remove the locking means and then remove the pin.

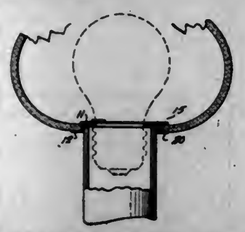
1,751,310. TALKING MACHINE. MATHIEU DE WRANGELL, Paris, France. Filed Sept. 22, 1927, Serial No. 221,355, and in France Oct. 1, 1926. 6 Claims. (Cl. 185—2.)

1. In a talking machine a spring motor, an electric motor, a turntable spindle, means for connecting the spring motor with the turntable spindle, means for connecting the electric motor with the turntable spindle, means for



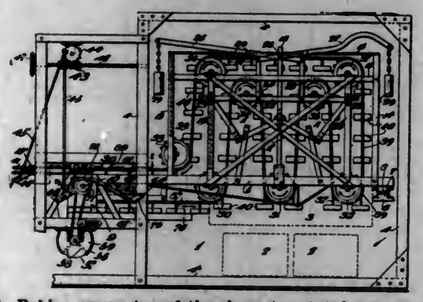
winding up the spring motor and means whereby the winding up means controls simultaneously both abovementioned connecting means.

1,751,311. SHADE HOLDER. LEROY C. DOANE, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a Corporation of Connecticut. Original application filed May 27, 1925, Serial No. 33,089. Divided and this application filed Mar. 25, 1929. Serial No. 349,631. 6 Claims. (Cl. 240—128.)



1. A device of the kind described, comprising a metallic ring adapted to pass through a hole in a glass shade and having a flange adapted to engage one surface of the shade, a plurality of bendable tongues adapted to engage the other surface of the shade, and an inwardly extending flange, and a fiber ring of less interior diameter than the inwardly directed flange and adapted to receive the base of a lamp bulb, the fiber ring being permanently secured to the metallic ring.

1,751,312. BAKING APPARATUS. WILLIAM EHRHART, Lancaster, Pa. Filed July 16, 1926. Serial No. 122,772. 7 Claims. (Cl. 107—57.)



1. Baking apparatus of the character stated comprising an oven proper, a horizontally disposed frame having ball

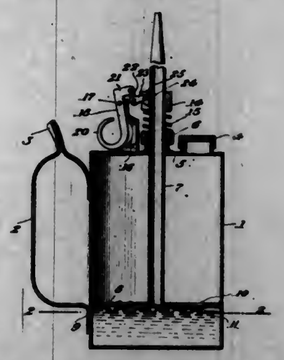
bearing connection at one end with said oven and having limited lateral movement at its opposite end with said oven, a fixed vertical frame carried by said horizontal frame, a counter-balanced, vertically movable frame interposed between said horizontal and vertical frames, said frames being entirely independent of the walls of the oven so as to be free to expand and contract wtihout disturbing said walls, and an endless conveyor carried by said frame for moving articles to be baked through said oven.

1,751,313. ELECTRIC ANIMAL POKE. CLARENCE F. FAULHABER, Middlebranch, Nebr. Filed Apr. 15, 1929. Serial No. 355,181. 5 Claims. (Cl. 175—311.)



5. In a device for the purpose described, a yoke of electrical insulating material having hingeably connected arms, a pair of metallic casings on said arms, electrical contact-elements carried by and electrically insulated from the casings, and a normally open energized electrical circuit including the casings and electrical contact-elements, said electrical circuit being arranged to be closed by establishing an electrical communication between the metallic casings of said pair.

1,751,314. OIL CAN. PHILIZA FOUNTAINE, Dahlen, N. Dak., assignor of one-half to Ingman Swinland, Lakota, N. Dak. Filed Sept. 7, 1928. Serial No. 304,517. 1 Claim. (Cl. 221—47.)



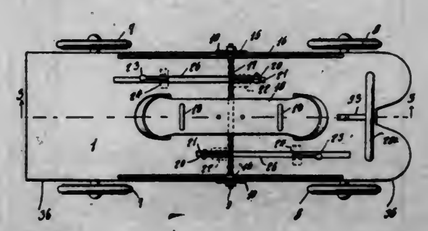
In an oiler, a can for containing a lubricating oil having a handle provided with a finger piece extension, a spout, a packing box on the top of the can through which the spout is movable, a disc on the inner end of the spout providing a plunger, a compressible disc on the periphery of the plunger, said plunger having an opening therein, a spring arm fixed on the under face of the plunger and having an enlarged free end providing a valve for closing the opening in the plunger, a block slidable on the spout, spring means for influencing the block to one position, an upstanding bracket on the can, a lever pivoted to the bracket and having a ring end disposed opposite the finger piece on the handle, and its opposite end offset, a link pivotally secured to the said end, a dog pivotally secured in the block and likewise pivoted to the link and said dog engageable with the spout when the lever is swung in one direction, for the purpose set forth.

1,751,315. COCKTAIL SHAKER. RICHARD WILLIAM HENRY FOX, Palmers Green, England. Filed June 21, 1926, Serial No. 117,507, and in Great Britain Mar. 29, 1926. 1 Claim. (Cl. 220—23.)



A cocktail shaker including a beverage-containing vessel having its lower end formed as an internally threaded flange, a refrigerant-containing chamber having a stepped cylindrical part forming an orifice, the outer surface of said stepped cylindrical part being threaded to screw into the threads of the flange at the lower end of the beverage-containing vessel, the upper ends of the threaded flange and the stepped cylindrical part together forming the bottom of the beverage-containing vessel, and a closure fitting into the orifice of the reduced stepped cylindrical part and having its outer face within the plane of the outer face of said stepped cylindrical part.

1,751,316. VEHICLE. GEORGE W. FRANKLIN, Muskogee, Okla. Filed May 24, 1928. Serial No. 280,258. 1 Claim. (Cl. 208—34.)

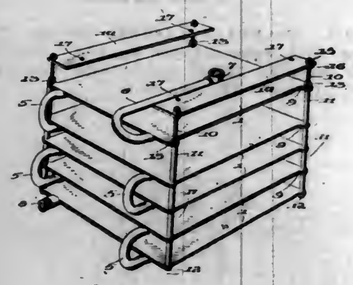


In a vehicle, a body, an axle journaled in the body, driving wheels secured for rotation with said axle, a shaft journaled on the body and geared to the axle, crank stirrups on said shaft, uprights supported on the body, a rock shaft journaled in said uprights, crank arms on said rock shaft, links connecting said crank arms and crank stirrups, and an operating member secured to said rock shaft.

1,751,317. EVAPORATOR ELEMENT. GEORGE W. GAIL, Ruxton, Md., assignor to Kulair Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 23, 1928. Serial No. 264,243. 7 Claims. (Cl. 257—256.)

1. An expander element for refrigerating machines, comprising a series of substantially flat plate like heat ex-

change units provided with passageways, superimposed one upon the other, conduits connecting the passageways of

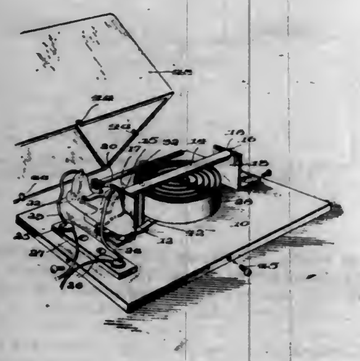


the respective units and means independent of said conduits for rigidly clamping the said units together in spaced relation.

1,751,318. PROCESS FOR OBTAINING PHOTOGRAPHIC IMAGES. EUGÈNE GAY, Lyon, France. Filed Oct. 14, 1926, Serial No. 141,671, and in France Oct. 23, 1925. 1 Claim. (Cl. 95—7.)

A process for obtaining a photographic image of the kind described, consisting in impregnating a substance having a surface adapted for the reception of a photographic image in a bath of 1-8-diacetyldioxynaphthalene-3-6-disulphonic acid and diazohydroquinonedimethyl ether, drying the said substance and exposing the substance under a transparent design having substantially opaque parts and developing by an alkali to yield a positive violet red image, substantially as hereinbefore described.

1,751,319. THERMOSTAT. GEORGE W. GAIL, Ruxton, Md., assignor to Kulair Corporation, Norristown, Pa., a Corporation of Delaware. Filed Jan. 12, 1928. Serial No. 246,226. 5 Claims. (Cl. 200—139.)



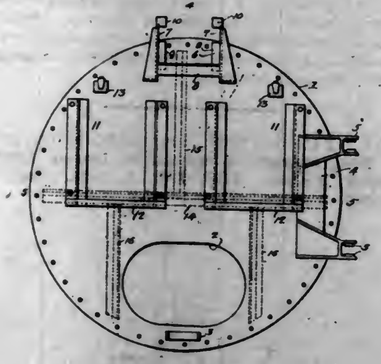
1. In a thermostat, the combination with a base plate, of a thermal coil, means for adjustably securing the outer end of said thermal coil to said base plate to provide a metal to metal contact therebetween, an electric circuit breaker also mounted on said base, and an adjustable arm secured to the inner free end of said coil for operating said circuit controlling device.

1,751,320. SOUND-DEADENING PLATE AND METHOD OF MAKING SAME. WERNER GENEST, Berlin-Lichterfelde, Germany, assignor to The Korfund Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 6, 1926, Serial No. 92,984, and in Germany Mar. 13, 1925. 4 Claims. (Cl. 144—309.)



3. The method of manufacturing sound deadening plates wherein a plurality of cork strips are employed to form the plate, which consists in passing each cork strip of the plate between pairs of opposed rolls, the axles of certain of which are disposed at right angles to the other.

1,751,321. LOCOMOTIVE SMOKE-BOX FRONT. HARRY GLAENZER, Philadelphia, Pa. Filed Feb. 13, 1929. Serial No. 339,653. 1 Claim. (Cl. 105—37.)

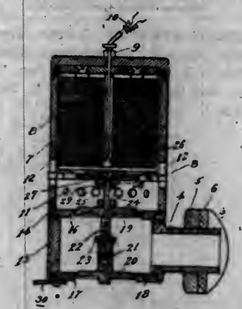


The combination in a locomotive fire-box front plate, of a sheet metal plate circular in form, having perforations near its periphery for the bolts by which the plate is secured to the smoke-box; two sets of vertically arranged angle bars welded to the face of the plate, the bars of each set spactd a given distance apart; a supporting cross-bar extending from one bar of each set to the other bar, said bars acting to reinforce the plate; reinforcing braces at the back of the plate, one of said braces extending horizontally directly back of the cross-bar at the front of the plate.

1,751,322. CARBURETOR SUCTION-RELEASE DEVICE. EDWIN L. GRAUEL, Cincinnati, Ohio, assignor to The Graulock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 6, 1923. Serial No. 661,275. 5 Claims. (Cl. 123—124.)

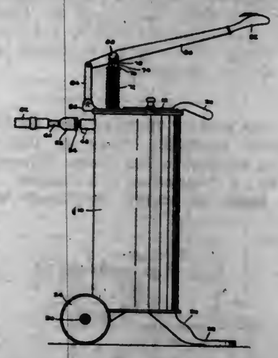
1. Means of scavening an internal combustion engine comprising in an internal combustion engine, the combination with the manifold thereof, of a valve chamber having an opening into the manifold, and a pair of interconnected valves arranged for simultaneously closing and opening two

other ports in the chamber that open to the air and means for closing said valves, one of said valves being slightly



larger than the other, so that under a slight vacuum in the manifold the tendency to move to open position will be greater than to move to closed position.

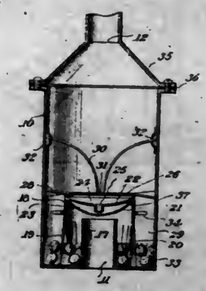
1,751,323. GREASE GUN. RUSSELL J. GRAY, Minneapolis, Minn., assignor to Gray Company, Inc., Minneapolis, Minn. Filed May 21, 1927. Serial No. 193,359. 3 Claims. (Cl. 221—80.)



1. A grease gun comprising a grease receptacle, a member containing a chamber secured to the upper end of said receptacle, a delivery tube connected with said chamber, a cylinder extending from said chamber to a place near the bottom of said receptacle, an upwardly opening check valve at the bottom of said cylinder, a plunger of smaller diameter than the interior dimension of said cylinder and working therein, said plunger extending up through said chambered member, an enlargement on the upper end of said plunger, a coiled spring interposed between said enlargement and said chambered member, a handle fixedly secured to the upper end of said plunger, and an operating lever pivotally connected with said receptacle for downward engagement only with the upper end of said plunger.

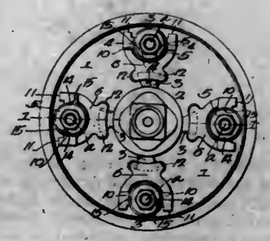
1,751,324. FLUID AIR CLEANER. JOHN L. GREEN, El Dorado, Ark. Filed May 21, 1928. Serial No. 279,585. 4 Claims. (Cl. 183—25.)

1. An air cleaner comprising a housing having an inlet, an outlet spaced from the inlet and adapted to be connected with the intake manifold of an engine, a flange surrounding the inlet and extending into the housing and providing therewith a fluid chamber between said flange and housing, an air trap positioned in the path of the incoming air between the inlet and outlet to direct said air downwardly into fluid contained within the fluid chamber, and a guard comprising a disk arranged transversely of the housing between the inlet and outlet to direct said air downwardly radially disposed slits therein and inclined blades between



the slits, and a substantially V-shaped resilient locking member having its centrad portion bearing upon the guard and at its opposite ends detachably secured to the wall of the housing to removably hold the parts in position.

1,751,325. SWITCH TERMINAL. MONROE GUETT, Hartford, Conn., assignor, by mesne assignments, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 5, 1925. Serial No. 13,416. 5 Claims. (Cl. 200—166.)

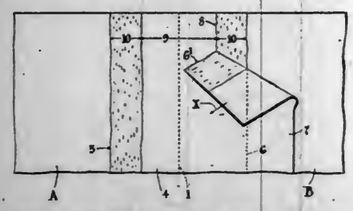


1. The combination in a switch terminal, of a post having a groove therein; two contact plates, one of said plates being forked to span the post, the forked ends being bent upon themselves to form a long spring member and two short spring members extending back of the centre line of the post to provide an extended spring contact plate, the short members of the plate having lateral extensions located in the groove in the post; and means for retaining the said short members to the post.

1,751,326. PROCESS FOR PRODUCING AN EXPLOSIVE. MARTIN HAHN, Boritz, near Riesa-on-the-Elbe, Germany. Filed Mar. 20, 1920, Serial No. 348,665, and in Germany Jan. 31, 1929. 1 Claim. (Cl. 52—21.)

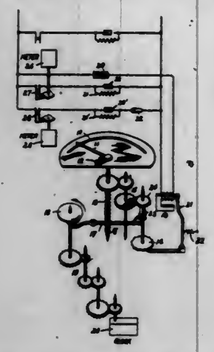
A process for producing explosives consisting in dissolving lime in nitric acid, diluting the solution with water, adding cellulose to the mixture until a consistent mass is obtained, drying said mass, adding further solution of lime in nitric acid to the dried mass, and re-drying it for use after such addition.

1,751,327. METHOD OF AND MEANS FOR FINISHING WALL JOINTS. ROBERT E. HAIRE, Paris, Ontario, and GEORGE MILLER THOMSON, Caledonia, Ontario, Canada, assignors to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Filed Mar. 14, 1929. Serial No. 347,107. 6 Claims. (Cl. 72—16.)



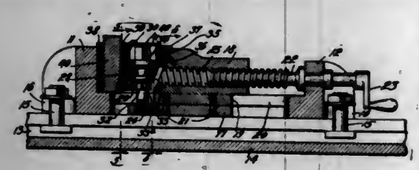
1. A process of finishing the joints of walls, which comprises sticking the central, longitudinal portion of a paper strip over the joint and removing the marginal portions of the strip in such a manner as to divide or split the marginal portions of the strip.

1,751,328. RELAY CIRCUITS. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed July 6, 1923. Serial No. 649,787. 5 Claims. (Cl. 171—34.)



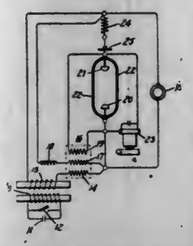
1. In combination, a translating device, a source of direct current for operating said device and an energizing circuit between said source and device including a plurality of parallel branches each branch containing a circuit closer and a condenser connected in series, each of said condensers being of sufficient capacity to take a charging current from said source sufficient to operate said translating device and means for individually discharging each condenser when its circuit is open.

1,751,329. VISE. HARRY H. HANCOCK, Beach Bluff, Mass.; Henry A. Sawyer administrator of said Harry H. Hancock, deceased. Filed Aug. 31, 1927. Serial No. 216,754. 6 Claims. (Cl. 90—60.)



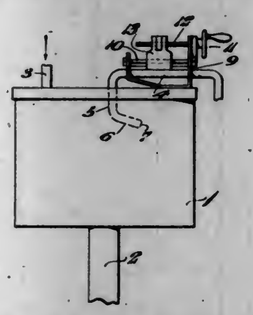
2. In a vise, the combination of two jaws, a movable head supporting and for advancing one of the jaws toward the other jaw to preliminarily engage the work, the head and its jaw having mutual bearing surfaces out of parallel with the gripping plane of the jaws, a swivel for connecting the movable jaw with the head, and means for adjusting the movable jaw relatively to said head.

1,751,330. RELAY SYSTEM. FRANZ HIRT, Berlin-Steglitz, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 29, 1929, Serial No. 335,980, and in Germany Feb. 2, 1928. 6 Claims. (Cl. 175—320.)



3. The combination of current supply means, a relay connected to said supply means, a glow tube connected to said supply means in parallel with said relay and operable to transmit current only at a voltage exceeding that of said supply means, a pair of magnetically balanced windings connected to said supply means in parallel with said relay, a tertiary winding inductively related to said balanced windings and connected to said supply means in parallel with said relay, and means for subjecting one of said magnetically balanced coils to a voltage whereby the induced voltage of said tertiary winding is caused to exceed that of said supply means.

1,751,331. PROCESS OF EXTRACTION OF OILS FROM VEGETABLE MATTER. IVAN S. HOCKER, Philadelphia, Pa., assignor to The Hocker Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 10, 1926. Serial No. 93,787. 4 Claims. (Cl. 87—6.)



1. A process of separating oil bearing vegetable material into its solid, water-soluble and oily constituents, comprising roasting and finely dividing the material, thoroughly mixing water therewith at a temperature above the melting point of said oily constituent, subjecting the mixture to a temperature approaching the boiling point, cooling said mixture and adding saccharifying enzyme and sugar to said mixture, heating and rotating said mixture, to cause the different liquids to separate radially, and withdrawing the different liquids thus separated.

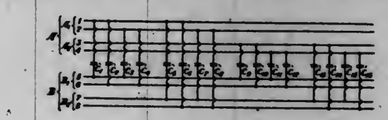
1,751,332. COTTON TRAMPER. EUGENE A. HOLMGREEN, San Antonio, Tex. Filed Aug. 4, 1928. Serial No. 297,490. 5 Claims. (Cl. 100—25.)

1. A tramper comprising a base, posts vertically mounted upon said base, a stationary beam mounted vertically upon said base and secured at its upper end to the upper end of the said posts, a cross head mounted for vertical reciprocation upon said posts, a tramper beam having rack teeth on one side positioned in guides upon said base, a guide roller upon said cross head engageable by said tramper beam, the said cross head having a pinion engaging the teeth of the tramper beam on one side and



having the other side engaging rack teeth on the said stationary beam, a plurality of gears rotatably mounted upon said base, a connecting rod secured to a crank pin on one of said gears and to a pin on the said cross head, and means for rotating the said gears to vertically reciprocate the said cross head and the said tramper, substantially as set forth.

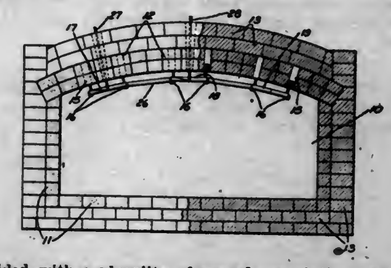
1,751,333. INTERQUAD CAPACITY BALANCING OF TELEPHONE CABLE CIRCUITS. HANS JORDAN and ROBERT GOLDSCHMIDT, Berlin-Karlshorst, Germany, assignors to General Electric Company, a Corporation of New York. Filed Dec. 4, 1928, Serial No. 323,674, and in Germany Dec. 22, 1927. 5 Claims. (Cl. 179—79.)



1. Method for balancing the couplings between adjacent quads, especially in telephone cables, which consists in measuring the interquad couplings between the transmission circuits of the one and of the other quad, calculating from such measured couplings directly the values of the nine capacities for balancing the same, suitably connecting between the conductors of the one and of the other quad, nine such capacities whereby the inter-quad couplings are simultaneously made to disappear.

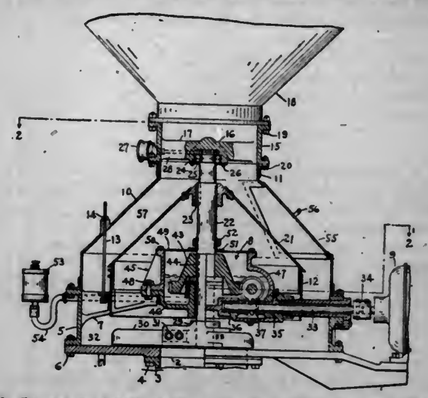
1,751,334. ELECTRIC FURNACE. WILLIAM KEENAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 27, 1924. Serial No. 758,473. 24 Claims. (Cl. 266—1.5.)

18. An electric furnace comprising a heating chamber provided with a roof formed of heat refractory material, heat refractory bricks built in said roof, said bricks being each provided with an outer elongated recess and an inner transversely extending recess, metallic pins inserted in said recesses having end portions bent at right angles, said pins being detachably locked by turning said end portions into said inner recesses whereby said pins are free to swing on said end portions in said elongated recesses, and a heating resistor mounted on said pins



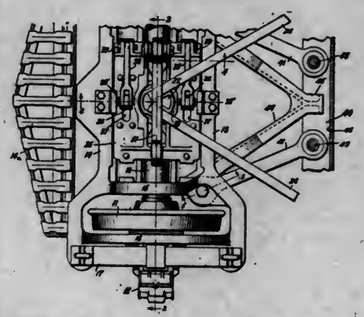
provided with a plurality of spaced convolutions extending substantially in the directions in which said pins are free to swing, whereby said resistor is free to expand and contract independently of said roof.

1,751,335. FEEDING DEVICE FOR MATERIALS. JOSEPH E. KENNEDY, New York, N. Y. Filed Dec. 10, 1927. Serial No. 239,156. 9 Claims. (Cl. 214—17.)



1. In an enclosed feeding device for materials, means for guiding materials from the center of an inlet between two spaced cones outwardly from a center into a ring shaped pile and means for scraping materials centripetally to a central outlet vertically below the center of said inlet.

1,751,336. RAILWAY TRUCK. OLE K. KJOLSETH, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 19, 1928. Serial No. 327,094. 15 Claims. (Cl. 105—189.)



1. In combination with a locomotive or car having a frame and a truck movable laterally with respect thereto,

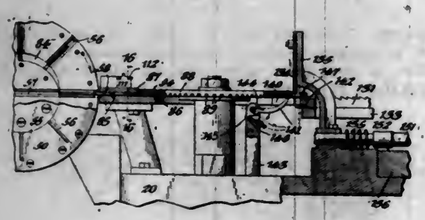
a gravity centering mechanism comprising a movable member for supporting the weight carried by said frame on said truck, and a linkage connected to said truck and said frame for moving said member upon displacement of said truck laterally in either direction from the center of said frame.

1,751,337. CLINKER SHOVEL. ABRAHAM KRISBERG, Milwaukee, Wis. Filed July 23, 1928. Serial No. 294,663. 1 Claim. (Cl. 294—14.)



A clinker shovel comprising a handle one end of which is provided with a net that is laterally inclined to one side of the axis of the handle, the other end of the handle being fashioned into a grip, and the extremity of the grip forming a shoulder, the shoulder being disposed on the same side of the axis of the handle as the net, so that when an operator takes hold the grip and feels the shoulder, he will know that the laterally inclined net is in proper position for use.

1,751,338. MACHINE FOR MAKING HORSESHOE NAILS. GUSTAV W. LANGE and GUSTAV M. LANGE, Buffalo, N. Y., assignors to The Fowler and Union Horse Nail Co., Inc., Tonowanda Township, N. Y., a Corporation of Connecticut. Filed Nov. 18, 1922. Serial No. 601,702. 8 Claims. (Cl. 10—69.)

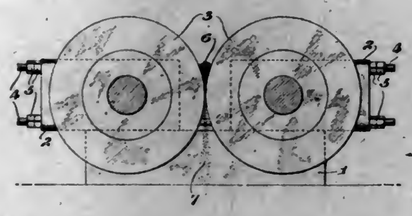


7. In a horse-nail machine, the combination of a rotary carrier having radial slots to receive nail blanks, a second rotary carrier having radial grooves for the blanks, a guide-channel for the blanks leading from the first to the second-named carrier, a plunger for ejecting said blanks lengthwise through said slots and said channel into said radial grooves with the butt ends of the blanks projecting beyond the edge of said grooved carrier, said channel having an opening at one side to permit said butt ends to pass laterally out of the same, and a yieldable gate applied to the side opening of said channel.

1,751,339. CONSTRUCTION UNIT OF WOOD PLIES BOUND BY VEGETABLE-PROTEIN ADHESIVES. IRVING F. LAUCKS and GLENN DAVIDSON, Seattle, Wash., assignors to I. F. Laucks, Inc., Seattle, Wash., a Corporation of Washington. Original application filed Oct. 29, 1923, Serial No. 671,881. Patent No. 1,689,732. Divided and this application filed Nov. 2, 1927. Serial No. 230,686. 17 Claims. (Cl. 20—91.)

11. In a laminated construction unit, a wooden ply bound by a waterproof adhesive including the reaction products of a leguminous seed flour and carbon bisulphide.

1,751,340. METHOD OF PRODUCING STEEL ABRASIVE MATERIAL. SAMUEL D. LAYTON, Galion, Ohio. Filed Nov. 4, 1927. Serial No. 231,141. 6 Claims. (Cl. 83—94.)



1. The herein described method of producing a carbonaceous metal abrasive material, which consists in introducing the raw material in form of shot into the gap between relatively opposed crushing surfaces moving at substantially the same rate of speed through said gap and subjecting the material to the crushing action thereof.

1,751,341. CONTAINER. MATTHIAS LEISSE, Duisburg-Meiderich, Germany. Filed Oct. 28, 1926, Serial No. 143,681, and in Germany Nov. 4, 1925. 10 Claims. (Cl. 221—60.)

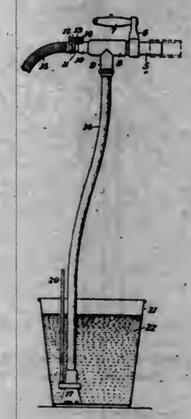


1. A container for plastic substances such as pastes, ointments and the like of the type in which the contents are expelled by squeezing, comprising in combination a rigid wall having a concavity on its inner face and a collapsible wall connected to the said rigid wall near their respective oppositely disposed peripheral edges, the said collapsible wall having radial channel-shaped projections and recesses and a concavity on its inner side, said projections and recesses being adapted on the external application of pressure to contract or expand in succession and to come finally in contact with the inner-face of the said rigid wall, substantially as hereinbefore described.

1,751,342. BELT DRESSING. GIOACCHINO LEONE, Pittsburgh, Pa. Filed Aug. 4, 1928. Serial No. 297,556. 1 Claim. (Cl. 134—8.)

A belt dressing composition comprising, in proportions by weight, five hundred twenty-five pounds of asphalt, twenty-five pounds of white lead, twenty-six pounds of neat's-foot oil, twenty-six pounds of tallow, three-fourths of a pound of citronella, and five pounds of paraffin.

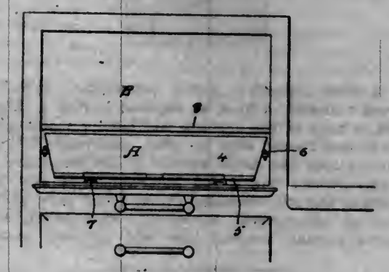
1,751,343. METHOD AND APPARATUS FOR APPLYING PLASTIC MATERIAL TO SURFACES. JOHN R. MACK, Caldwell, N. J., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Sept. 19, 1925. Serial No. 57,432. 8 Claims. (Cl. 91—45.)



1. A cement sprayer including an ejector nozzle, a cement chamber at the inner end of the nozzle in alinement therewith, and a restricted fluid pressure nozzle passing through the cement chamber and having a divergent end portion terminating adjacent the inner end of the ejector nozzle, said fluid pressure nozzle being adjustable in the cement chamber toward or away from the ejector nozzle, and means on the exterior of the sprayer for adjusting the said fluid pressure nozzle.

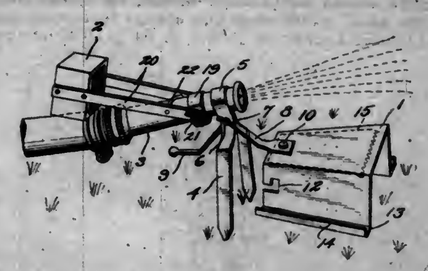
7. The method of providing a surface with a coating of plastic material having a consistency sufficient to preclude washing, which consists in diluting said plastic material with air at less than atmospheric pressure, then drawing the plastic material through a conduit by aspiration and projecting it on the surface by means of a jet of gas directed through a nozzle against the surface to be coated.

1,751,344. DRIP PAN. LORA MASON, Jacksonville, Ill. Filed Dec. 15, 1928. Serial No. 326,358. 1 Claim. (Cl. 53—5.)



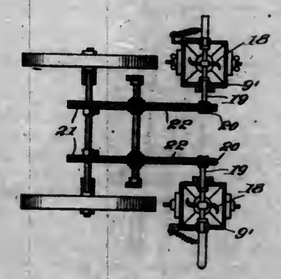
A drip pan comprising a bottom, a side and a pair of end pieces rigidly connected with the bottom, a second side hingedly connected at its lower edge with the bottom, latch means for holding said hinged side in raised position and inverted channel-shaped strips having their bight portions connected with the lower face of the bottom and extending transversely of the pan.

1,751,345. SPRINKLER. TASHIRO MATSUI, Tacoma, Wash. Filed Jan. 5, 1927. Serial No. 159,207. 7 Claims. (Cl. 299—76.)



1. An attachment for a nozzle of a hose comprising a channel shaped member, means for supporting said nozzle and means for positioning said member with respect to the nozzle so that the water coming from the nozzle will strike either the inner or outer face of the bottom wall of said member, or the outer face of either side wall, each side wall having its free longitudinal edge bent outwardly into channel shape to prevent the water passing from the said edges of the side walls, a casing having a plurality of screens therein attached to the nozzle and adapted to be brought in front of the nozzle so that the water from the nozzle will pass through the screens, said casing resting in the channel shaped member when the said member is in a position with its channel part uppermost.

1,751,346. FERTILIZER DISTRIBUTOR. ANDREW MAZAK, Prince George, Va. Filed Aug. 22, 1928. Serial No. 301,342. 2 Claims. (Cl. 275—2.)

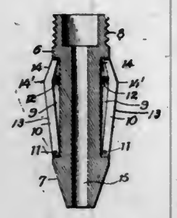


1. An implement of the character described comprising a wheeled frame, a casing supported by the frame at the outside of each wheel and having an opening in its bottom, means for adjusting the casing vertically with relation to the ground, means for adjusting the casing horizontally with relation to the frame, a gate valve pivoted on the bottom of the casing, a spring normally holding the valve in a position to close said opening, and a plant actuated bar forming a continuity of said valve and lying in the same plane therewith, whereby when said arm engages the plant the valve will be directly operated and moved to an open position.

1,751,347. OIL-WELL DELIVERY APPARATUS. THEODORE J. MILLER, El Campo, Tex. Filed Mar. 24, 1927. Serial No. 178,041. 2 Claims. (Cl. 255—74.)

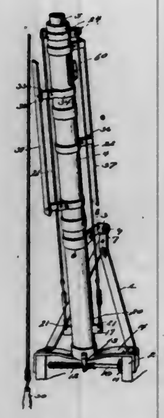
1. In oil delivery means for oil wells, an oil delivery pipe, an elongated plug at the intake end of the pipe, said plug being coupled to the pipe for connection and disconnection by relative rotation between the pipe and plug, said pipe having an annular series of longitudinal recesses in its periphery, cutters pivotally mounted at their lower ends in said recesses and having angularly

arranged upper ends relatively converging in an inward and upward direction, the bodies of said cutters being provided with longitudinal cutting edges disposed by said inclined ends to incline at a downward and upward angle to the plane of the plug, and springs in said recesses and bearing against the cutters at the juncture of their



inclined ends and inclined body portions, to yieldingly project the upper inclined ends of the cutters outwardly beyond the recesses, said spring-pressed upper inclined ends of the cutters being adapted for riding contact with the well wall for a yielding retraction of the cutters in the operation of withdrawing the plug with the delivery pipe from the well.

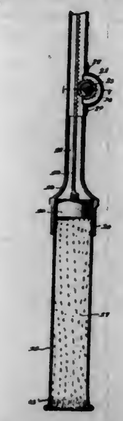
1,751,348. TUBULAR DERRICK. JOHN J. MITCHELL, Petersburg, Va. Filed Feb. 9, 1924. Serial No. 691,860. 2 Claims. (Cl. 255—1.)



1. A well drilling machine comprising a frame, a tubular boom pivotally connected to said frame, said boom comprising an outer tubular section and an inner section movable longitudinally within it, means interposed between said inner and outer sections for resiliently supporting the inner section from said outer section, and means for supporting a jerk-line, carried by the upper end of said inner section.

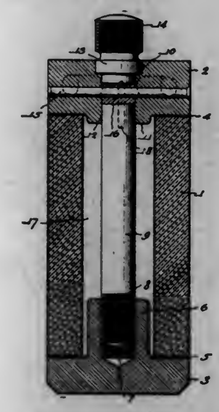
1,751,349. MOP. CLIFTON O. MORGAN, Youngstown, Ohio. Filed Mar. 2, 1929. Serial No. 343,886. 4 Claims. (Cl. 15—119.)

1. In a device of the class described, a telescopically sectional hollow handle open at its lower end, a mop head, supporting means for the mop head extending inwardly of the open end of said handle, and means carried by an intermediate portion of said handle for actuating said supporting means to project the mop head outwardly of the open end of said handle for use and to thereafter



draw the same inwardly of the latter to wring water therefrom and to otherwise house it during periods of dis-use.

1,751,350. PUMP PLUNGER. FRED W. MOYER and FRANK J. RENINGER, Allentown, Pa., assignors to The Aldrich Pump Company, Allentown, Pa., a Corporation of Pennsylvania. Filed June 25, 1927. Serial No. 201,372. 8 Claims. (Cl. 74—108.)

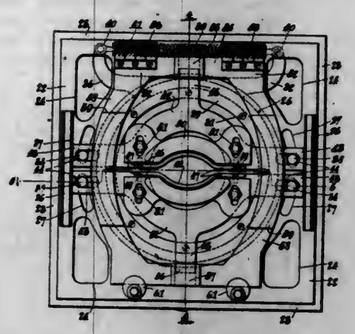


1. A pump plunger or piston, comprising a cylinder of vitreous material, a head at one end having a threaded socket, a head at the opposite end having a passage-way therethrough formed with an offset, said heads fitting respectively over the entire surface of the respective ends of said cylinder and a rod independent of said heads but acting thereon extending through said bore, said rod having an enlargement fitting into said offset, and a threaded portion screwed into said threaded socket.

1,751,351. MACHINE FOR CUTTING GREEN CORN FROM THE COB. SAM D. NOGGLE, Canal Winchester, Ohio. Filed July 2, 1928. Serial No. 289,917. 23 Claims. (Cl. 130—9.)

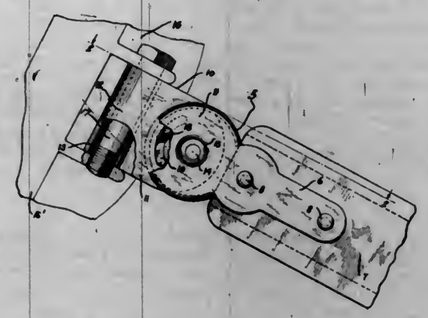
4. In a machine for cutting green corn from the cob, a cutter unit comprising a carrying body, opposed cutter elements carried by the body, and means actuated by engagement with the travelling corn to separate the cutter

elements following the contour of the corn ears and to positively cause said elements to move in parallel relation while separating, said means including reversely rotatable rings connected to the cutter elements, means to



engage the travelling corn and be moved thereby to cause relative movement of the rings in one direction, and yieldable means to normally force the rings in the opposite direction.

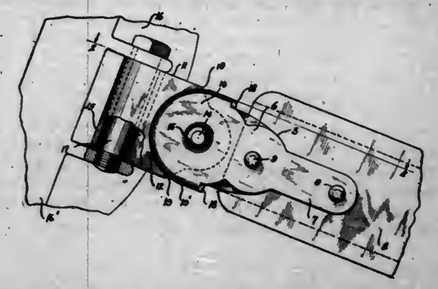
1,751,352. JOINTED CLIP. CLAIR P. NOURSE, Milwaukee, Wis., assignor to The Midland Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed May 19, 1927. Serial No. 192,705. 1 Claim. (Cl. 54—30.)



The combination with a hame having a hame bolt and a trace, of a two-piece jointed clip directly connecting the trace and hame bolt, comprising a pair of spaced apart arms, each having an attaching tongue and an enlarged disc portion, the trace being secured flatly between said tongues, and a swivel member having an inner bi-layered tongue portion extended between said disc portions and pivotally connected thereto and an integral outer inwardly offset looped portion, said hame bolt being pivotally extended through the looped portion, the tongue of the swivel member having a curved slot therein and a pin extending through the disc portions and said slot for limiting the pivotal movement of the swivel member with respect to the arms.

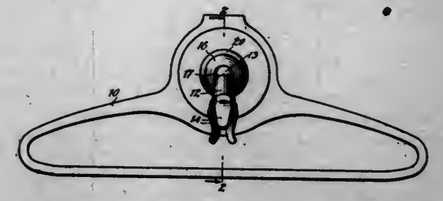
1,751,353. JOINTED CLIP. CLAIR P. NOURSE, Milwaukee, Wis., assignor to The Midland Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed May 19, 1927. Serial No. 192,706. 1 Claim. (Cl. 54—30.)

In combination, a trace engaging member having a pair of spaced apart tongues and enlarged outer end portions, one of said outer end portions being formed with opposed, inwardly projecting ears, a trace secured flatly between said tongues, a swivel member having a tongue projecting inwardly between said enlarged outer end portions of the trace engaging member and having an outer, intergral inwardly off-set looped portion, a pivot stud extending centrally through the tongue of the swivel



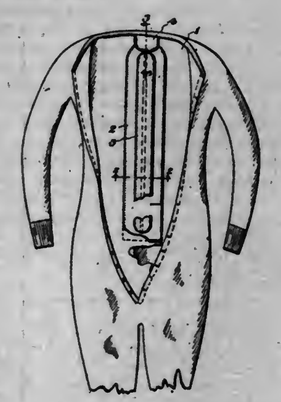
member, the tongue of said swivel member being formed with opposed shoulders for engagement with said ears, and a hame having a hame bolt, the hame bolt being extended through the looped portion of the swivel member and the swivel member being movable thereon.

1,751,354. HOLDER FOR GRAPHIC INSTRUMENTS. ERNEST OLDENBUSCH, Brooklyn, N. Y. Filed Feb. 10, 1927. Serial No. 167,261. 8 Claims. (Cl. 120—108.)



1. A holder for a graphic instrument including restricted means for receiving and gripping and enclosing the writing end of the instrument, and flexible means for gripping the body of the instrument at a point beyond the restricted means.

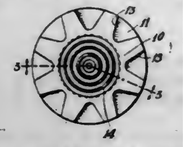
1,751,355. UNDERGARMENT. HENRY V. OLDHAM, McRoberts, Ky. Filed July 21, 1927. Serial No. 207,478. 1 Claim. (Cl. 2—78.)



In combination with an undergarment, a protective pad for the spine applied to the inner face of the back of the

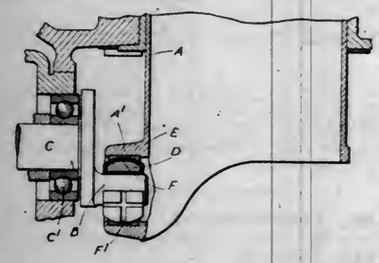
garment intermediate the width thereof and extending longitudinally thereof to cover the spinal column, said pad comprising a strip of fabric disposed flat against the garment longitudinally thereof, a second strip fitting flat against the first strip and of appreciably less length and width than the first strip and together with the frst strip forming a pad having a thick medial longitudinal portion and decreasing in thickness towards its ends and side edges, and a sheet extending from the upper edge of the back of the garment and having its lower edge contacting with the upper edge of the second-mentioned strip.

1,751,356. DIAPHRAGM. ARTHUR P. PINKLER, Waterbury, Conn., assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn., a Corporation of Connecticut. Filed July 21, 1925. Serial No. 44,991. 3 Claims. (Cl. 181—32.)



1. A diaphragm for sound recording or reproducing units, comprising a thin substantially flat disk having a plurality of integral free-ended arms extending radially outward therefrom in the plane of said disk, and an annular member of non-resonant material and more flexible than said disk secured to its arms to cover the intervening free spaces thereof.

1,751,357. SELF-ALIGNING SPHERICAL JOINT OR BEARING. HARRY RALPH RICARDO, London, England. Filed Jan. 14, 1925, Serial No. 2,417, and in Great Britain Feb. 22, 1924. 4 Claims. (Cl. 308—1.)



1. In a spherical bearing, in combination, an outer formed-one-piece bearing member of high fusion point metal having an inner circumferentially complete spherical surface, and an inner bearing member having an outer circumferentially complete spherical surface in movable operative engagement with the surface of said outer bearing member, said inner bearing member including a core of high fusion point metal having an outer parti-circumferential spherical surface and a surface covering of low fusion point metal molded on the outer spherical surface of the core so as to have no movement relative thereto, said core alone being of sufficient size and configuration as to be non-removable from the outer member when moved along its own axis but to be freely removable therefrom when tilted relative thereto.

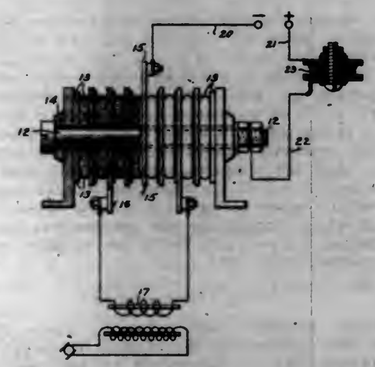
1,751,358. WINDOW AND DOOR. HOWARD RICE and GEORGE ALEX MUTCH, Miami, Fla., assignors to Hidawae Products Corporation, Miami, Fla., a Corporation of Florida. Filed Sept. 7, 1928. Serial No. 304,496. 1 Claim. (Cl. 20—52.)

A device of the character described including a frame having sides provided with grooves and beads, a plurality of units slidable in said grooves, each unit including an upper rail and a lower rail, the lowermost rail of each unit being provided with an outwardly extending flange, and the lowermost rail of certain of the units being provided with an inwardly extending flange disposed in the paths of upward movement of the outwardly extending flanges of the adjacent units, the upper rail of certain of the units being provided with an outwardly extending flange arranged above the said inwardly extending flange



on the lower rail of its adjacent unit and in the path of downward movement thereof, the device being provided at its top with a pocket to receive and house all of the units, a cap mounted on and movable with the upper rail of the top unit to completely close off the said pocket when the said top unit is in normal lowered position, a side of the frame including a removable section for the application and removal of the units, and means for manually operating the units to raise and lower the same and including means for locking the units in any position.

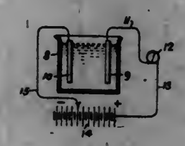
1,751,359. ASYMMETRIC ELECTRIC COUPLE. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Filed Aug. 20, 1925. Serial No. 51,524. 7 Claims. (Cl. 175—366.)



4. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electropositive electrode element of magnesium, and an electronegative electrode element formed of an alloy of the metals copper and zinc compounded with a chemical element from the sixth periodic group beginning with the letter "S" whereby the electronegative electrode element has inherently reaction properties adapted for the formation and maintenance of an inverse current blocking film at the junction of said electrode elements; said couple having means for maintaining the elements thereof united under pressure.

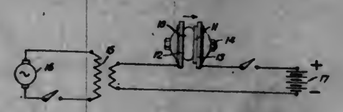
5. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electropositive electrode element of magnesium, and an electronegative electrode element formed of a metallic compound with an element of the sixth periodic group alloyed to have inherently reaction properties adapted for the formation and maintenance of an inverse current blocking film at the junction of said electrode elements.

1,751,360. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Original application filed Sept. 22, 1924, Serial No. 739,188. Divided and this application filed Apr. 29, 1926. Serial No. 105,404. 2 Claims. (Cl. 175—366.)



1. The method of forming a dense homogeneous coating containing a sulphide and a body of electro-positive metal adapted for use as an electrode element in a dry surface contact rectifier having a cooperating sulphur containing electrode, which comprises subjecting said body of electropositive metal to the action of a solution containing the sulphide of an alkaline metal while heated to a temperature of approximately 100 degrees C. and maintaining said body of metal at an electrical potential positive with respect to said solution.

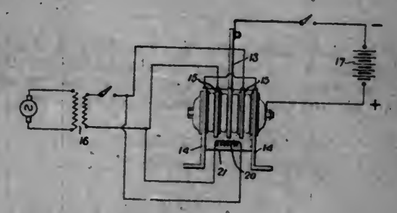
1,751,361. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Filed June 1, 1926. Serial No. 113,009. 16 Claims. (Cl. 175—366.)



1. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electropositive electrode element of a relatively electropositive metallic body, an electronegative electrode element of a compound of a metal with an electronegative chemical element of a character adapted for the formation electrochemically of an inverse current-blocking film at the junction of said electrode elements, and means for retaining said electrode elements operatively in contact under pressure, the pressure being of a magnitude sufficient to withstand the dynamic effects of the field at said junction; said electrode elements being cooperatively formed to provide asymmetric resistance distributed over the contacting surfaces at said junction of a value adapted, when passing inverse current, to provide energy sufficient for the formation and maintenance of said film, whereby rectified currents of appreciable magnitudes may be substantially continuously passed.

6. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electropositive electrode element of a metallic body comprising zinc, an electronegative electrode element comprising a maximum valent compound of a metal with tellurium of a character adapted for the formation electrochemically of an inverse current-blocking film at the junction of said electrode elements, and means for retaining said electrode elements in operative contact under pressure; said electrode elements being conjointly formed to have means for imparting contact resistance at said junction of a value adapted when passing inverse current to supply the chemical energy required as the heat of formation by said film, for substantially continuous self-maintenance.

1,751,362. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Filed June 17, 1926. Serial No. 116,598. 14 Claims. (Cl. 175—366.)



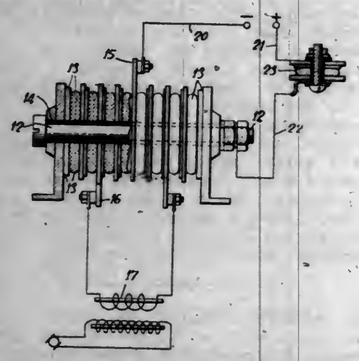
1. In electric current rectifiers and the like, of the dry surface contact variety, an asymmetric couple arranged to have substantially uniform unilateral conductivity for relatively long periods of time, which comprises electropositive and electronegative electrode elements relatively widely divergent in the electrochemical series, said electronegative electrode element being a metallic compound of the oxygen family in the sixth periodic group having relatively high specific conductivity and provided with a crystalline surface coating of another compound of said sixth periodic group having relatively low specific conductivity.

13. In electric current rectifiers and the like, of the dry surface contact variety, an asymmetric couple arranged to have substantially uniform unilateral conductivity for relatively long periods of time, which comprises electropositive and electronegative electrode elements respectively of magnesium and of a compound of the oxygen family in the sixth periodic group having a base of copper, said electronegative electrode element having relatively high specific conductivity and provided with a surface coating of another compound of said oxygen family in the sixth periodic group having relatively low specific conductivity, an electric heating means associated with said couple for independently heating the same, and a heat conserving envelope arranged to enshroud both said couple and said heating means.

1,751,363. ELECTRIC-CURRENT RECTIFIER. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Original application filed Aug. 20, 1925, Serial No. 51,524. Divided and this application filed Dec. 20, 1929. Serial No. 415,411. 3 Claims. (Cl. 175—366.)

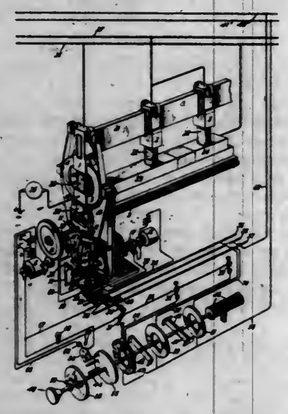
2. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electropositive electrode element of magnesium, and an electronegative electrode element formed of cupric sulphide whereby said electronegative electrode element when subject to normal

voltage has reaction properties adapted for the formation and maintenance of an inverse current-blocking film at



the junction of said electrode elements; said couple having means for maintaining the elements thereof united under pressure.

1,751,364. ELECTRIC SWITCH. CLARENCE H. SANDERSON, Nutley, N. J., assignor to General Electric Company, a Corporation of New York. Filed Apr. 29, 1924. Serial No. 709,894. 11 Claims. (Cl. 175—375.)



1. In an electric switch of the class described, a plurality of spaced stationary contacts, a cooperating movable contact, a movable supporting means therefor, power operated means adapted to be operated to move said supporting means to position said movable contact selectively for movement into circuit closing position with any one of said stationary contacts, a power operated collapsible mechanism mounted on said supporting means and adapted to be operated to move said movable contact into circuit closing position with the selected stationary contact, and means adapted to be operated to collapse said mechanism whereby to effect the movement of said movable contact to circuit opening position.

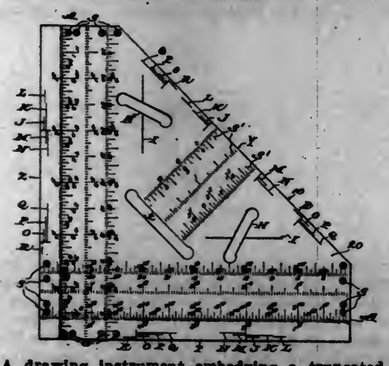
1,751,365. THUMB AND FINGER WARMER. CHARLES SCHAAF, Chicago, Ill. Filed Dec. 21, 1928. Serial No. 327,668. 1 Claim. (Cl. 219—46.)

A hand and finger warmer for use upon the steering wheels of motor vehicles comprising pockets forming parallel horizontally apertured sleeves upon the opposed side edges thereof, laces for the pockets passed through the horizontal apertures of the sleeves to conveniently apply the pockets about the steering wheel, resistance coils series wound upon cards arranged within the pockets and connected in circuit through communicating lead wires



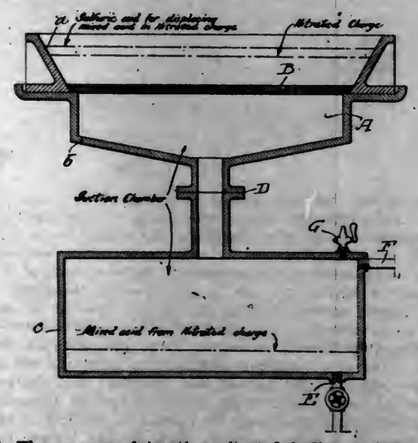
passed through the adjacent sleeves, and the coils being energized from the generating circuit of the vehicle by lead wires passed through the remaining sleeves of the pockets.

1,751,366. DRAWING INSTRUMENT. BENJAMIN M. SHAUB, Ithaca, N. Y. Filed Sept. 18, 1926. Serial No. 135,126. 6 Claims. (Cl. 33—104.)



1. A drawing instrument embodying a truncated triangle having its under edges beveled, there being a scale parallel to an edge of the triangle extending between two opposite edges, said scale having its zero line located in a vertical plane midway of the bevel at the respective adjacent edge.

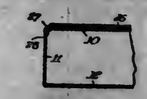
1,751,367. PROCESS OF TREATING NITRATED BODIES. JEAN V. SKOGLUND, New York, N. Y., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Oct. 8, 1921. Serial No. 506,445. 2 Claims. (Cl. 23—161.)



1. The process of treating nitrated bodies to free the same from mixed acid, which consists in displacing sub

stantially all of the free mixed acid by a mineral acid of substantially the same specific gravity recoverable in concentrated form after dilution by evaporation of the water content, and thereafter drowning the mass with water.

1,751,368. DRAWING KIT. JUSTIN R. SWIFT, Evanston, Ill., assignor to The Superior Type Company, Chicago, Ill., a Corporation of Illinois. Filed May 25, 1927. Serial No. 194,107. 2 Claims. (Cl. 45—131.)



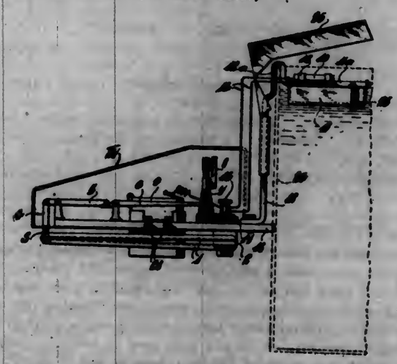
1. In combination, a box, the top wall thereof having an aperture near one edge, and a normally bowed, resilient member having hook ends, one of said hook ends including an off-set part adapted to engage with the underside of said top wall adjacent the aperture, and the other hook end of said member being adapted to engage another portion of the box to removably connect the member to the box.

1,751,369. MOLDING FLASK. JUSTIN R. SWIFT, Evanston, Ill., assignor to The Superior Type Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1927. Serial No. 202,925. 3 Claims. (Cl. 18—42.)



3. Molding apparatus of the class described, comprising in combination, a flask having a floor provided with a relatively large number of equally spaced through apertures, and a peg plate having a relatively large number of similarly spaced upwardly projecting pegs of an effective length slightly greater than the effective thickness of the flask floor, the flask and peg plate being adapted to be assembled during the placing of the molding material in the flask and the forming of the impressions in the material, and separated before the material is placed in a dryer.

1,751,370. TEMPERATURE-REGULATING APPARATUS. FREDERICK ALBERT TAYLOR and HENRY ALFRED TAYLOR, Kirton, near Boston, England. Filed Mar. 25, 1929, Serial No. 349,752, and in Great Britain Mar. 22, 1928. 8 Claims. (Cl. 136—59.5.)



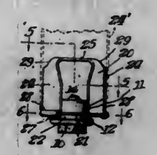
1. Temperature regulating apparatus comprising, in combination, a heating device, an electrical circuit adapted to fire said heating device, thermostatic means functioning automatically at a predetermined temperature to complete said electrical circuit, a supplementary electrical circuit and a supplementary delayed action contact device adapted to be controlled from the thermostatic means and to function in conjunction with said thermostat to control said supplementary electrical circuit, the supplemental circuit being arranged to have included in it a supplementary heating device.

1,751,371. WATER-LOCKING SUCTION VALVE FOR HYDROCARBON-FUEL-STORAGE TANKS. JOHN H. VIELE, Elmira, N. Y. Filed Feb. 11, 1929. Serial No. 339,191. 9 Claims. (Cl. 221—67.)



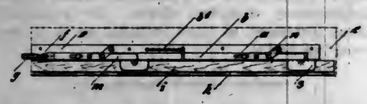
1. A water locking safety valve for the lower end of suction pipes of hydrocarbon fuel storage tanks having a casing provided with a bore therein communicating with the lower end of the suction pipe edged at its lower end with a valve seat and laterally extended to provide a lateral suction intake opening, a baffle plate at the lower side of said lateral suction opening, a valve supported on said baffle plate and positioned to cooperate with said valve seat, said valve having a stem depending through the baffle plate, and a float affixed to the lower depending end of said stem and shielded from suction at said lateral intake by the baffle plate, the combined specific gravity of the valve stem and float being greater than that of hydrocarbon fuel but providing for buoyancy thereof in water.

1,751,372. TIP. WILLIAM A. VOLLMER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Apr. 10, 1924. Serial No. 705,451. 12 Claims. (Cl. 45—137.)



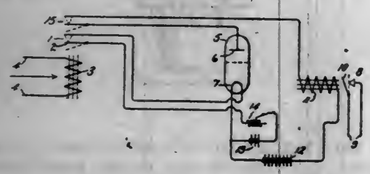
2. The combination with a leg having a recess in its base, of an axially vertical shell open at its lower end and having at said end an outwardly extending rim flange, a tip in said shell and projecting downwardly therefrom, a socket comprising a base plate provided with an opening to admit and frictionally hold said shell, the part of said plate surrounding the opening being supported by said rim flange and an inverted U-shaped member having its extremities connected to said plate and adapted to frictionally engage the walls of said recess and retain said socket in position.

1,751,373. ADJUSTABLE TIGHTENING DEVICE FOR DOORS AND THE LIKE. GERHARD WAGNER, FRIEDRICH FUNKE, and RUDOLF HEYMANNS, Duesseldorf, Oberkassel, Germany. Filed Feb. 24, 1927, Serial No. 170,634. Renewed Jan. 24, 1930. 2 Claims. (Cl. 20—68.)



1. In combination, a closure strip, a carrier therefor, and means for moving said strip, comprising a stationary support, a reciprocating rod, levers connected at their ends to said rod and to said carrier, and links connected to support and to said levers intermediate the ends thereof, whereby movement of said rod in one direction causes said carrier and closure strip to move in a direction at right angles thereto.

1,751,374. CONTROL APPARATUS. ADOLF WALTEMATH, Oberschoneweide, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 9, 1926, Serial No. 140,667, and in Germany Sept. 3, 1925. 2 Claims. (Cl. 175—320.)



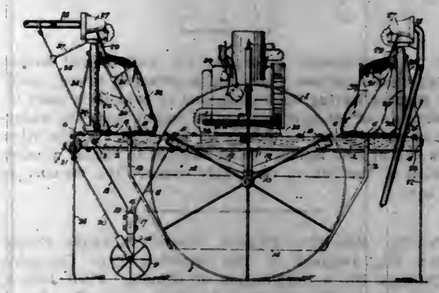
2. The combination of an electrical circuit, an electron discharge device provided with anode and cathode heating circuits; electro-responsive means connected in said anode circuit for controlling the connections of said electrical circuit, and means associated with said anode and cathode heating circuits for instantaneously deenergizing said electroresponsive means and for energizing said electroresponsive means only after a predetermined interval of time.

1,751,375. APPARATUS FOR MEASURING PRESSURES. CHARLES WARLUZEL, Paris, France. Filed Jan. 10, 1927, Serial No. 160,248, and in France Jan. 12, 1926. 5 Claims. (Cl. 73—5.)



1. Apparatus for measuring the pressure of a liquid by confining a constant volume of gas, comprising a manometric receiver, adapted to hold a quantity of liquid up to a predetermined level, and a confined atmosphere of gas above said liquid level, a vessel forming a chamber containing a gas subject to the pressure of the liquid to be measured and a tube of slight diameter relative to the manometric receiver, said tube establishing direct communication between the lower part of the manometric receiver and a gas subject to the pressure of the liquid to be measured.

1,751,376. COTTON PICKER. BENJAMIN F. WATKINS, Philadelphia, Pa., assignor to Electric Cotton Picker Co., Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 23, 1925. Serial No. 77,332. 4 Claims. (Cl. 302—27.)

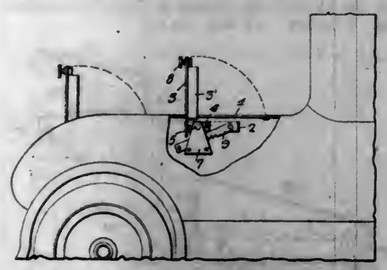


1. In a cotton picker, the combination with a mobile carriage, of source of electrical power mounted on the carriage, an electrically operated suction device also mounted on the carriage and movable on a vertical axis and operatively connected with the said source of power, and a flexible duct connected with said suction device.

1,751,377. NITRATED CARBOHYDRATE EXPLOSIVE AND METHOD OF PRODUCING THE SAME. PHILIP G. WRIGHTSMAN, Chester, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 7, 1927. Serial No. 231,779. 10 Claims. (Cl. 52—22.)

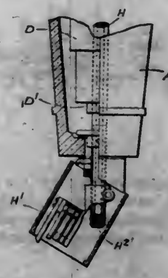
1. A process of manufacturing an explosive containing a nitrated sugar, comprising forming a suspension of 25% to 50% sugar in a chlorhydrin containing mixture, said mixture having a viscosity less than glycerin, and nitrating the suspension.

1,751,378. RUMBLE SEAT AND LOCKING DEVICE. JOSEPH R. ZAIDEN, Pittsburgh, Pa. Filed Oct. 5, 1928. Serial No. 310,530. 2 Claims. (Cl. 296—66.)



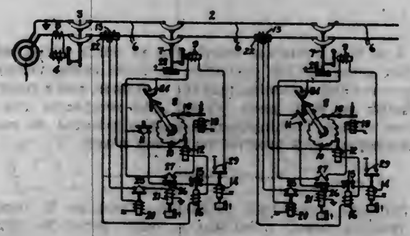
1. An automobile of the class described having an opening in its rear deck, a seat pivoted below said opening and having its back adapted to close the opening when the seat is in inoperative position, latch means for latching the seat in operative position, such means comprising a toothed bar pivotally connected with the seat and a toothed member with which the teeth of the bar engage and a handle on the bar for moving the same out of engagement with the teeth of said toothed member.

1,751,370. INSULATING BUSHING FOR ELECTRICAL APPARATUS. ARCHIBALD ALLAN, North Shields, England, assignor to A. Reyrolle & Company Limited, Hebburn-on-Tyne, England, a Company of Great Britain. Filed Mar. 4, 1926, Serial No. 92,269, and in Great Britain Mar. 10, 1925. 12 Claims. (Cl. 173—318.)



1. An insulating bushing for high voltage electrical apparatus, comprising two external insulators in substantial alignment, a connecting member between the insulators serving as a support for the bushing, a rigid central conductor fixed near one end to one of the insulators, a conducting member fixed to the other insulator, and an electrical connection between the free end of the central conductor and the conducting member which is such as to allow longitudinal expansion and contraction of the central conductor relative to the external insulators.

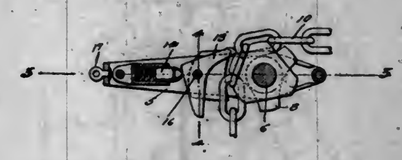
1,751,380. SYSTEM OF ELECTRIC DISTRIBUTION. ARVID E. ANDERSON, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York. Filed May 25, 1929. Serial No. 366,030. 7 Claims. (Cl. 175—298.)



1. In combination, an electric circuit including a plurality of sections connected in series by sectionalising switches, a source of current connected to one end of said circuit, means associated with each switch for effecting the opening thereof including a device responsive to a predetermined abnormal circuit condition, said devices being arranged so that the number of operations thereof required to effect the opening of the respective switches varies inversely with the distance of the respective switches from the source, and means associated with each device and responsive to a predetermined electric condition of the circuit for resetting the device when said predetermined electric condition lasts for a predetermined time.

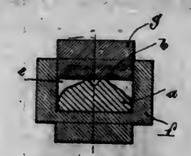
1,751,381. WIRE STRETCHER. AUGUST ANDERSON, Shoshoni, Wyo. Filed Oct. 7, 1926. Serial No. 61,069. 1 Claim. (Cl. 74—31.)

A wire stretcher including a chain wheel mounted for rotation, a chain, said wheel comprising opposed side plates each of substantially triangular contour providing corner projections, the corner projections of the respective plates being arranged in confronting relation, said wheel also including center projections arranged between the corner projections and the triangular-shaped side plates and extending an appreciable distance beyond the edges of



said triangular plates to receive the links of the chain, the side edges of the triangular-shaped plates being of a length substantially equal to the length of the link, whereby the latter lies flat upon the adjacent side edges of the triangular-shaped plates throughout their length while engaged by the adjacent center projection.

1,751,382. PROCESS OF MOUNTING THE DIES USED AS IN PRODUCTION OF METAL THREADS OR WIRES. CLODIEN ARCHER, Meximieux, France. Filed Jan. 18, 1928, Serial No. 246,623, and in France May 9, 1927. 1 Claim. (Cl. 205—29.)



A process for the setting of diamonds employed as dies for the drawing of metal wire consisting in squaring two opposite faces of the stone, making a central point on one such face, placing the stone in a soft steel holder, closing the top with a plate of the same material, subjecting the holder to heat applied electrically to soften the metal and to pressure to cause it to surround the stone.

1,751,383. BEAD CORD. FRANK P. ATKINS, Cincinnati, Ohio, assignor to Atkins & Pearce Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 22, 1928. Serial No. 263,725. 1 Claim. (Cl. 96—26.)

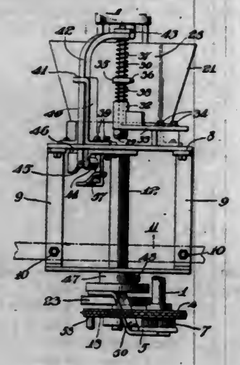


A bead cord having a central strand of fibrous silk material having desired tensile strength with strands of pliable wire braided thereabout providing an outer surface for the cord which will resist frictional wear.

1,751,384. DEPOSITOR. HARRY D. AYARS, Salem, N. J. Filed Apr. 20, 1927. Serial No. 185,247. 7 Claims. (Cl. 226—103.)

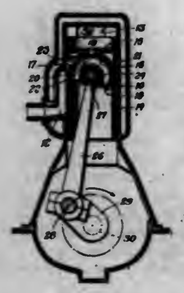
2. In a depositor having a hopper provided with measuring and conveying means for a deposit of substance contained in the hopper, a spring tensioned plunger adapted

to force the deposit from the measuring and conveying means and provided with a guide element movable with



the plunger, and means intermittently actuated on an arc concentric with the hopper to depress the guide element, and thereby in turn intermittently actuating the plunger.

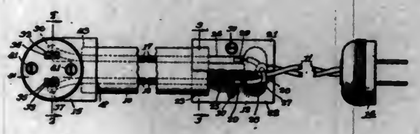
1,751,385. INTERNAL-COMBUSTION ENGINE. GEORGE PAUL BEAUDRY, Montreal, Quebec, Canada. Filed Sept. 8, 1927. Serial No. 218,265. 3 Claims. (Cl. 123—70.)



1. In an internal combustion engine, a first cylinder to which fuel is admitted and in which the fuel is compressed, a second cylinder in which the fuel compressed in the first cylinder is exploded and from which the spent gas is exhausted, the compressed fuel entering the second cylinder from the first cylinder by a passage establishing communication between the interiors of both cylinders, and a power piston operable in the second cylinder, said piston being provided with a delivery passage for the purpose of admitting the compressed fuel to the second cylinder through the first mentioned passage, said piston being provided with valve means operated by the movement of the piston for the purpose of controlling the discharge of exhaust gas from the second cylinder.

1,751,386. FLOOR CORD. JOSEPH C. BELDEN, Chicago, Ill., assignor to Belden Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 7, 1928. Serial No. 290,949. 2 Claims. (Cl. 173—324.)

1. As a new article of manufacture, an electric floor cord comprising a flat strip of insulating material having a pair of conductors embedded in and projecting at opposite ends thereof, a duplex conductor cord connected to one pair of projecting ends of the conductors, a connection member carried by the outer end of the duplex conductor cord, a casing detachably carried by one end of the strip and housing the connection between the duplex conductor cord and the conductors of the flat strip, and



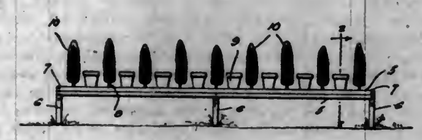
a connector detachably carried by the other end of the strip and provided with contacts connected to the projecting ends of the conductors of the strip, said connector housing the connection between the conductors of the strip and the contacts.

1,751,387. HEATING DEVICE. STANLEY M. BIBLER, Pittsburgh, Pa. Filed Sept. 22, 1928. Serial No. 307,661. 2 Claims. (Cl. 126—263.)



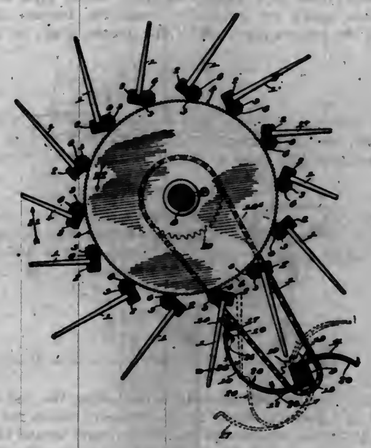
1. A food container comprising an outer casing, an annular cover for the container, an inner casing secured to the cover and extending into the container, and a receptacle slidable in said inner casing, said receptacle and said inner casing forming compartments adapted to contain substances which produce heat when mixed.

1,751,388. POULTRY FEEDER. CHARLES E. BIECHER, Hedrick, Iowa. Filed Mar. 4, 1927. Serial No. 172,904. 2 Claims. (Cl. 119—51.)



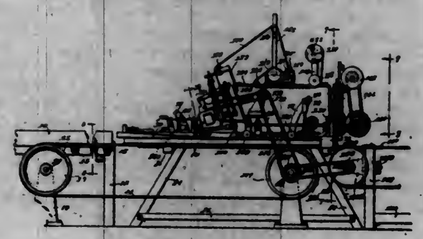
1. In a poultry feeding device of the class described, a horizontal base board, ground supporting legs therefor, vertically projecting spaced pins extending through the board at spaced intervals throughout the length of the base board, and feed receiving receptacles removably disposed over the respective projecting pins for rest upon the upper face of the base board.

1,751,389. DOFFING DEVICE. OSCAR F. BLEDSOE, Jr., Greenwood, Miss. Filed Feb. 7, 1928. Serial No. 252,551. 13 Claims. (Cl. 56—44.)



1. A doffing device comprising an arm, a claw carried by the arm, and means for moving the arm to periodically engage the claw with a needle to perform a scraping action.

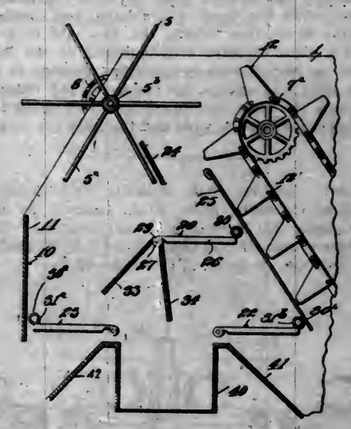
1,751,390. BOX FORMING AND SEALING DEVICE. WALTER W. BRUST, Weston, W. Va. Filed May 13, 1927. Serial No. 191,209. 12 Claims. (Cl. 93—2.)



1. A device of the character described comprising a supporting structure, a pair of spaced box-forming plates located longitudinally of the structure, a traveling carrier for moving a box filled with materials through the plates, means for varying the spacing between said plates, adjusting bars carrying the plates, traveling belts engaging the sides of the box and supported by the bars whereby spacing of the plates and belts may be varied simultaneously.

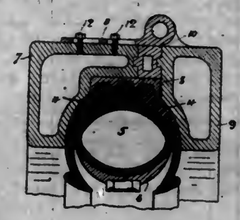
1,751,391. POTATO SEPARATOR. WILLIAM G. BUNKER, Augusta, Me. Filed May 20, 1927. Serial No. 192,997. 5 Claims. (Cl. 209—477.)

1. In a gravity separator for potatoes and the like, a supporting structure, a tilting platform on said structure to receive the material to be separated, means for passing an air blast over said platform to separate the lighter from the heavier material and conduct it to a place of deposit, means for normally holding said platform in elevated operative position and releasable when the material on the



platform reaches a predetermined weight, whereby the platform is tilted and the heavier material discharged therefrom.

1,751,392. APPLIANCE FOR VULCANIZING COVERS OF PNEUMATIC TIRES. ALFRED EDWARD BURCH, Melbourne, Victoria, Australia. Filed May 19, 1926, Serial No. 110,228, and in Australia June 10, 1925. 1 Claim. (Cl. 18—18.)



In a retreading machine, a full annular mould divided in a plane transverse to its axis into two unequal parts, a removable annular matrix carried solely by said larger part of such width as to extend beyond the plane of the open end of said larger part, said smaller part constituting a door for said mould, means for adjustably securing said door to said larger part to position it in the plane of the extended end of said matrix, and a detachable liner filling the space between said larger part and said door when the latter is so positioned.

1,751,393. COMBINED TRACK LEVEL AND GAUGE. JUNIUS E. BUSBY, Jackson, Ky., assignor of one-half to Thomas Arthur Gabbard, Oakdale, Ky. Filed Feb. 12, 1929. Serial No. 339,463. 9 Claims. (Cl. 240—6.4.)

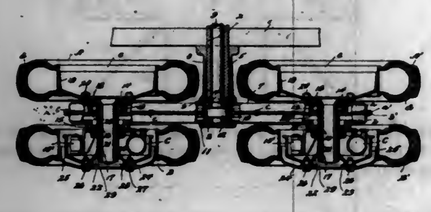


9. A track gauge having a sliding member at one end and having a lug adapted to be disposed against the inside face of one rail, a slide mounted upon the beam adjacent the other end thereof and having a downwardly extending lug adapted to be disposed against the other rail, the slide being graduated, a pointer on said beam with which said

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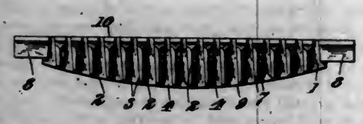
graduations coact, a vertically movable scale carried by the beam just beyond the last named lug and adapted to be disposed against the head of the rail, a split level mounted upon the beam, a flashlight, and means on the beam for detachably holding the flashlight in a position with the light directed longitudinally of the beam and toward one end thereof, and mirrors disposed in the path of the light and carried by the beam and reflecting the light from the beam downward onto said spirit level and the graduations on the slide and the scale.

1,751,394. DRIVE FOR MOTOR VEHICLES. JOHN WALTER CHRISTIE, Avon, N. J., assignor, by mesne assignments, to Browning Crane Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 23, 1929. Serial No. 342,004. 8 Claims. (Cl. 180—22.)



1. A driving mechanism for motor vehicles embodying in combination a carrier casing mounted on opposite sides of the vehicle, a pair of driven shafts rotatably journaled in the opposite ends of the casing, each shaft comprising keyed telescopic sections, a wheel supporting member attached to the free extremity of each telescopic section, a driving means, and a common means interconnecting said driving means and rotatable shafts, whereby power is transmitted from the former to the latter.

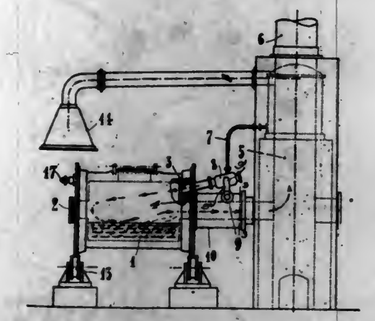
1,751,395. FIRE BAR. GEORGE HENRY COLLINS, Brentford, England. Filed Apr. 4, 1927, Serial No. 180,843, and in Great Britain Apr. 16, 1926. 3 Claims. (Cl. 126—167.)



1. A fire bar having a central body part, shoulder portions of similar shape in plan at the ends thereof wider than said body part and a like number of vertical integral ribs with parallel sides at the surface extending outwardly from said body part on each side all to the same distance as the shoulder portions, said ribs being tapered from back to front the tapering commencing at a point below the upper surface of the bar and extending to the lower ends of the ribs and the spaces between the ribs at the surface of the bar being narrower than the width of the ribs.

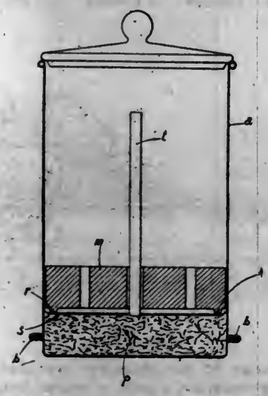
1,751,396. APPARATUS FOR MANUFACTURING ZINC WHITE. JOSEPH MARCEL HENRI CORNILLAT, Paris, France. Filed July 9, 1927, Serial No. 204,604, and in France July 15, 1926. 1 Claim. (Cl. 263—16.)

Apparatus for manufacturing zinc white, comprising a furnace; a refractory lining in the furnace, said furnace having a charging door to admit zinciferous material thereinto, and also having at one end a burner inlet and below the same a gas outlet; a burner having its mouth disposed in said inlet and inclined downward toward the opposite end of the furnace to cause the flames and gaseous products of combustion to travel in an extended path first toward the latter end and then back to the gas outlet; a pipe connected to the gas outlet end of the furnace and leading from said outlet, through which pipe the combustion gases are exhausted from the furnace together with the vapors given off by the molten zinc; an annular



chamber of limited capacity surrounding the gas exhaust pipe at a point external to the furnace; means for supplying air under pressure to the burner, said means including a pipe having a connection with said chamber to effect preheating of the air by the hot gases passing through the exhaust pipe; and means separate from the last-named supply means for supplying liquid fuel to the burner for admixture with the preheated air.

1,751,397. COFFEE FILTER. EMILE CAMILLE DELSUC, Nancy, France. Filed Mar. 27, 1929, Serial No. 350,407, and in Belgium Mar. 29, 1928. 5 Claims. (Cl. 53—3.)

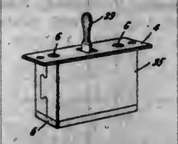


1. In a coffee filtering apparatus, a ground coffee receiving vessel having a perforated bottom, a perforated plate resting upon the ground coffee, a solid member disposed upon the said plate and having apertures for letting water pass through and having such a calorific capacity that boiling water poured into the vessel gives up a part of its heat before making contact with the coffee until its temperature is below 80°.

1,751,398. ELECTRIC SWITCH. FRANK C. DE REAMER, Bridgeport, and WILLIAM R. YOUNG, Fairfield, Conn., assignors to General Electric Company, a Corporation of New York. Filed Dec. 29, 1927. Serial No. 243,442. 5 Claims. (Cl. 200—6.)

1. An electric switch comprising spaced stationary contacts, a bridge piece fixedly supported above said contacts,

two oppositely disposed switch arms pivotally mounted at their lower ends upon said bridge piece, a spring yieldingly connecting the upper ends of said arms, and an actu-



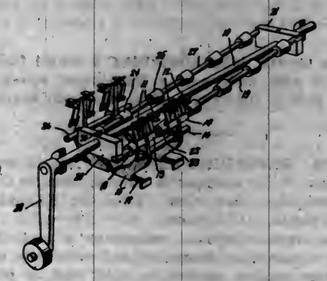
ating lever pivoted on said bridge piece transversely between said arms and adapted to engage and depress either of said switch arms into engagement with said stationary contacts.

1,751,399. GAS-OPERATED AIR-HEATING DEVICE. GUILLAUME DUCART, Paris, France. Filed May 31, 1927, Serial No. 195,520, and in France June 4, 1926. 4 Claims. (Cl. 126—90.)



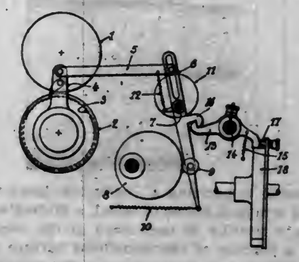
1. An air heater of the character described, including a casing, a pair of identical shells of a heat conducting material arranged within the casing and provided on their adjacent inner faces with spaced vertical fins which when the shells are arranged together provide a series of vertical and parallel passages for air to be heated, said shells also provided on their outer surfaces with a series of vertical fins which coact with the inner surfaces of the side walls of the casing to form passages through which heated gas may be passed, the ends of the shells being extended beyond the fins and projected through the ends of the casing and forming inlet and outlet air connections, and gas burners arranged in the lower part of the casing beneath the fins on the outer surfaces of the shells.

1,751,400. CONTROLLER. JOHN EATON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 4, 1927. Serial No. 188,808. 10 Claims. (Cl. 200—6.)



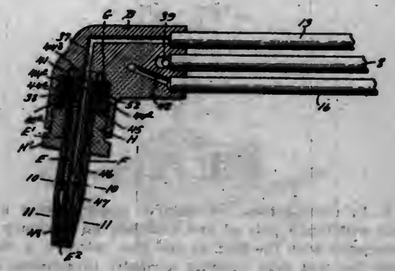
1. A controller comprising an operating member having a longitudinal axis and mounted for rotation about an axis other than said first axis and disposed at an angle to the said other axis, and a row of spaced apart devices disposed parallel with said other axis and operated in a predetermined succession by said member.

1,751,401. AUTOMATIC SPACING DEVICE FOR PLAITING MACHINES. GEORGES EZEELENT and ROGER EZEELENT, Paris, France. Filed June 28, 1926, Serial No. 119,212, and in France Jan. 28, 1926. 7 Claims. (Cl. 223—44.)



1. In a plaiting machine, the combination with a plait producing mechanism adapted to rotate intermittently one roller of the machine for spacing two consecutive plaits from each other, of means for imparting to said roller an additional rotative movement and means for adjusting the amplitude of said additional rotative movement quite independently from the plait producing mechanism.

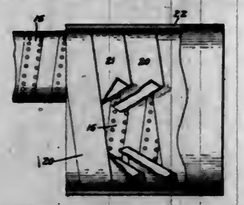
1,751,402. BLOWPIPE. JOHN HARRIS, Cleveland, Ohio, assignor to The Harris Calorific Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 12, 1925. Serial No. 55,987. 8 Claims. (Cl. 158—27.4.)



1. In a blowpipe, the combination of a head having a chamber extending upwardly from the lower end thereof, a passage for cutting oxygen leading from the central portion of said chamber and an annular chamber surrounding the delivery end of said passage and adapted to discharge into the said chamber, a tip assembly, the said assembly comprising a head block having a chamber extending upwardly from the lower end thereof with passages communicating with said chamber and adapted to receive a combustible mixture from the said annular chamber, an inner tip member secured to the central portion of said head block, within the chamber thereof, the said block having a passage adapted to communicate with the passage for cutting oxygen in the head and the said tip member having a bore registering with the last two passages, a second tip member surrounding the first mentioned tip member and fitted within the chamber in the head block, the said tip members being provided with passages for preheating gases, there being an annular distributing chamber above the upper end of the outer tip member and surrounding the inner tip member into which the first mentioned passages in the head block are adapted to discharge, a mixer in said head adapted to discharge substantially radially into the first mentioned

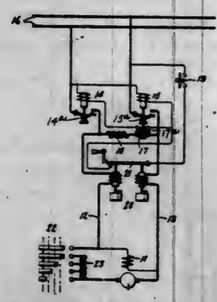
annular chamber and the said head being provided with passages for delivering oxygen and a combustible gas into said mixer, and means engaging the head block for securing the tip assembly within the first head chamber.

1,751,403. HIGH-TENSION CABLE. WILLIAM C. HAYMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 14, 1928. Serial No. 325,991. 9 Claims. (Cl. 173—266.)



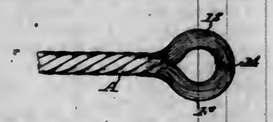
1. A cable comprising a conductor, insulation thereon, a spirally wrapped ribbon of metal, a protective strip which underlies a portion of each turn of the ribbon and also overlies a portion of the peripheral surface of the turns of said ribbon, and a protective metal covering which is in electrical communication with said metallic ribbon.

1,751,404. SYSTEM OF MOTOR CONTROL. JOHN A. HEPPERLEN, East Orange, N. J., assignor to General Electric Company, a Corporation of New York. Filed Aug. 2, 1926. Serial No. 126,397. 4 Claims. (Cl. 172—288.)



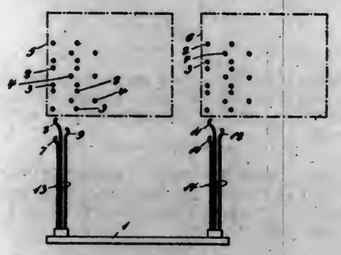
1. In combination, an electric motor having a shunt field winding, a pair of line switches, an auxiliary switch associated with the first of said line switches, a discharge path for said field winding normally established by said auxiliary switch when said first line switch is in its open position, and connections between said line switches requiring the closing of said first line switch and the opening of the said discharge path by said auxiliary switch prior to the closing of the second of said line switches.

1,751,405. TERMINAL AND METHOD OF MAKING SAME. ALBERT FRANK HERMAN, Cleveland, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Mar. 10, 1926. Serial No. 93,723. 9 Claims. (Cl. 29—155.5.)



1. A method of making a cable terminal that comprises forming an eye of portions of a cable; dipping said eye in a bath of molten metal; withdrawing said eye from said bath; and applying pressure to said eye and the metal adhering thereto to shape the same.

1,751,406. SELECTOR SWITCH FOR AUTOMATIC TELEPHONE SYSTEMS. CARL AXEL WILHELM HULTMAN, Djursholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed Aug. 3, 1927, Serial No. 210,882, and in Sweden Apr. 11, 1922. 1 Claim. (Cl. 179—27.5.)



A selector arrangement comprising a group of selector switches each having a wiper carrier, a number of switch arms secured to said carrier, a plurality of sets of contact wipers carried by said switch arms, an incoming line, means for switching said incoming line onto one or the other of said sets of contact wipers, an operating mechanism for setting the wiper carrier in two different directions in the same plane and in one of said directions longitudinally of said switch arms, and a contact field consisting of rows of wires extending through a group of selectors perpendicularly to the plane of movement of the wiper carrier, said sets of contact wipers being arranged to be displaced along parallel paths and to make contact, in each setting position of the carrier, with a corresponding number of lines.

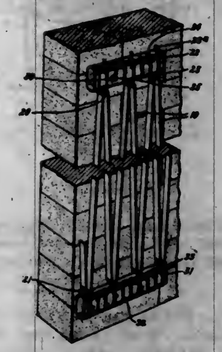
1,751,407. ELECTRIC LAMP FOR BEACON LIGHTS. EUGEN HURWITZ, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 27, 1929, Serial No. 358,668, and in Germany May 1, 1928. 6 Claims. (Cl. 176—16.)



1. An electric lamp comprising a sealed bulb, a light source in said bulb, and a translucent screen mounted in said bulb to partially enclose said light source.

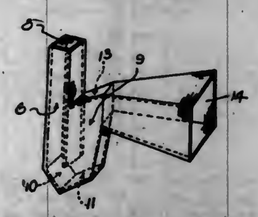
1,751,408. ELECTRIC FURNACE. CARL L. IPSEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 23, 1924. Serial No. 745,511. 13 Claims. (Cl. 266—1.5.)

1. An electric furnace comprising a wall forming a heating chamber, an elongated heat refractory, electrically insulating member secured to said wall, a plurality of supports securing said member to said wall in spaced relation therewith at intervals along the length of said member, a sinuous heating resistor in said chamber, and members having good heat conductivity engaging and supporting said resistor and attached to said elongated member so that said resistor is hung therefrom in spaced



relation to said elongated member and said wall so as to provide for free radiation of heat from said resistor whereby hot spots are prevented when operating close to temperatures producing oxidation of the resistor material.

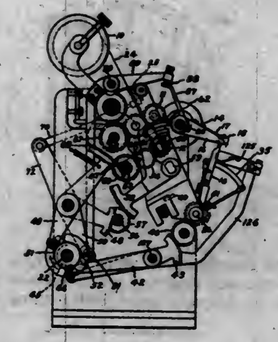
1,751,409. CHAMBER OR PASSAGEWAY FOR USE IN THE REPRODUCTION OF SOUND. SAMUEL JAMES JACKSON, Sydney, New South Wales, Australia. Filed Aug. 14, 1926, Serial No. 129,263, and in Australia Apr. 22, 1926. 1 Claim. (Cl. 181—27.)



In chambers or passageways for use in the reproduction of sound a plurality of passageways in successive communication and connected by sound deflecting members so arranged that the sound entering the chamber first strikes a deflecting member arranged at approximately right angles to a second deflecting member, having above it and parallel thereto a third deflecting member arranged at approximately right angles to a fourth deflecting member beneath which and parallel thereto is a fifth deflecting member, capable of deflecting the sound outwards, and the walls of the passageways gradually tapering outwardly towards the succeeding passageway so that each passageway is of increasing cross sectional area and the end of the passageway terminating in a bell shaped mouth.

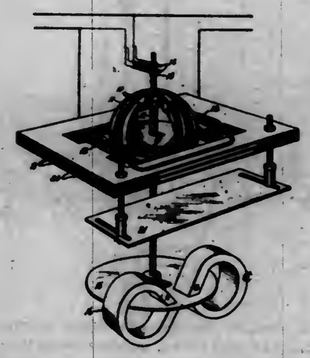
1,751,410. ANCHOR-INSERTING MACHINE. WILLEM KONING, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed May 20, 1926, Serial No. 110,577, and in the Netherlands June 25, 1925. 7 Claims. (Cl. 49—2.)

7. In a machine for inserting a row of anchors extending longitudinally of a glass rod, the combination of unitary devices mounted side by side on a line and each comprising an anchor making mechanism for making an anchor having one end bent into a hook, and a transfer mechanism for picking up an anchor out of said anchor making mechanism and carrying it into inserting position with its straight end at a predetermined place, means for varying at will the spacing of said devices, a rod holder comprising a longitudinally movable rock shaft mounted perpendicular to the anchors held in said transfer mechanisms and having rod holding arms projecting from said shaft to hold a glass rod parallel to said shaft, burners



for softening on the rod in said holder spots in registry with said positioned anchors, driving means for said mechanisms, and rod actuating means for said shaft driven from said driving means to rock said shaft to carry said arms toward and away from the positioned anchors.

1,751,411. COMMUTATOR-TYPE DIRECT-CURRENT WATTHOUR METER. GEORGE LAMB, Pittsburgh, Pa., and ISAAC F. KINNARD, Lynnfield, Mass., assignors to General Electric Company, a Corporation of New York. Filed May 8, 1929. Serial No. 360,202. 8 Claims. (Cl. 171—265.)

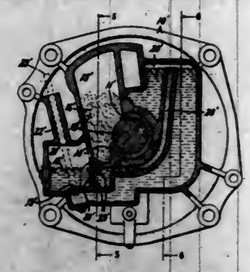


3. A watthour meter of the direct current commutator type having a stationary field structure and rotating armature both containing magnetic material which, except for narrow air gaps between the field structure and armature, forms a closed magnetic circuit for the meter fluxes, said material comprising a nickel-iron alloy having an appreciably lower hysteresis loss than iron.

1,751,412. LUBRICATING DEVICE. JOHN O. LEWIS, Wesleyville, Pa., assignor to General Electric Company, a Corporation of New York. Filed Apr. 2, 1928. Serial No. 266,485. 11 Claims. (Cl. 308—182.)

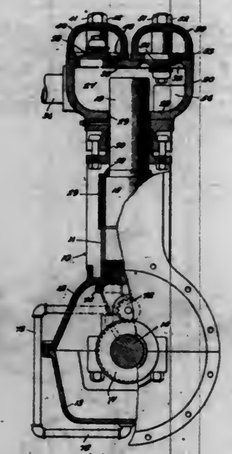
1. In combination with a bearing, a lubricating device comprising a storage reservoir adapted to contain oil below

atmospheric pressure, said reservoir having an outlet in the lower portion thereof, and means for supplying oil to said bearing from said outlet formed and arranged to



provide for introducing a filling tube into said outlet to direct oil into said reservoir and to prevent the flow of oil therefrom through said outlet during filling said reservoir.

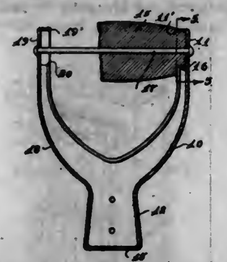
1,751,413. MULTIPLE-CYLINDER RECIPROCATING WATER PUMP. CHARLES I. LONGNECKER, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 23, 1928. Serial No. 272,078. 7 Claims. (Cl. 103—169.)



1. In a pump of the class described, a frame; a water box mounted on said frame, provided with inlet and outlet connections and a working chamber; a plunger working in said chamber; inlet and discharge valves communicating with said chamber; and an inlet and discharge manifold detachably secured to said water box, housing said valves.

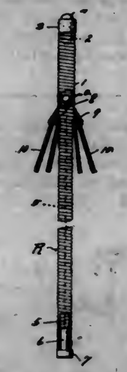
1,751,414. HANDLE GRIP. CHARLES MARIENTHAL, Detroit, Mich., assignor to Columbus Handle & Tool Corporation, Columbus, Ind., a Corporation of Indiana. Filed June 2, 1926. Serial No. 113,118. 2 Claims. (Cl. 294—57.)

1. A handle grip of the class described formed from a single blank comprising a stem; a pair of arms diverging outwardly from said stem, the opposite edges of each of said arms being folded inwardly upon the body portion and spaced therefrom to form said arms tubular; a tongue projecting outwardly from each of said arms; a hand hold having a flat formed thereon; means projected through said hand hold and through said tongues for



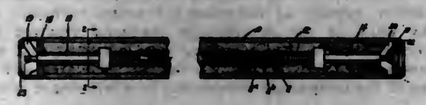
mounting said hand hold on said tongues, said flat engaging said doubled over edges of said arms for preventing rotation of said hand hold on its mountings.

1,751,415. CLEANING IMPLEMENT. THOMAS J. MCCAFFREY, Seattle, Wash. Filed Sept. 30, 1927. Serial No. 223,209. 3 Claims. (Cl. 137—70.)



1. An implement of the class described comprising an elongated flexible rod, an end portion of the rod being of increased diameter, a ferrule engaged with the rod and abutting the inner end of the portion of the rod of increased diameter, and flexible claws carried by the ferrule and extending outwardly from the rod.

1,751,416. ELECTRIC HEATING UNIT. JOHN C. MUSGROVE, Lanesboro, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 4, 1926. Serial No. 92,280. 3 Claims. (Cl. 201—67.)

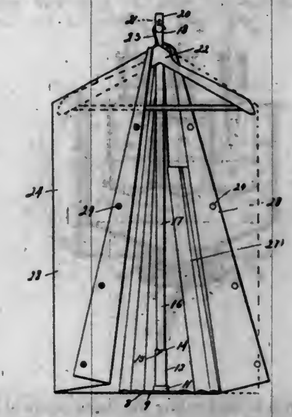


1. An electric heating unit comprising a metallic sheath, compacted powdered insulating material in said sheath, a pair of metallic terminal members projecting from said sheath, and a plurality of sinuous resistance conductors embedded in said insulating material, each of said resistance conductors having a plurality of turns at each end surrounding said terminal members respectively and secured thereto.

1,751,417. AUTOMOBILE COAT TREE. GARRETT L. NEWMAN, Philadelphia, Pa. Filed Nov. 2, 1926. Serial No. 145,750. 1 Claim. (Cl. 312—6.)

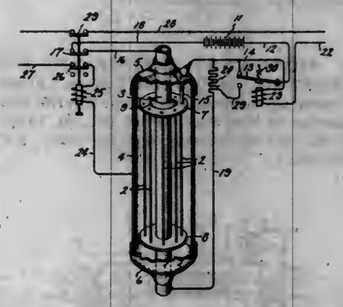
A device of the kind described comprising a support including an upright, a horizontal arm projecting only

to one side of said upright at its upper end, said arm having notches at the top portion thereof, a vertical finger projecting upwardly from the outer end of the arm to act as a stop and a pin projecting upwardly from said arm adjacent the point of its connection with upright, said pin also acting as a stop, clothes hangers having



portions engaging the horizontal arm and registering with the notches for spacing said clothes hangers, said clothes hangers being prevented from becoming accidentally displaced from the arm by the stops and a canopy supported by the horizontal arm and coacting with the clothes hangers whereby the latter will hold said canopy in a distended condition.

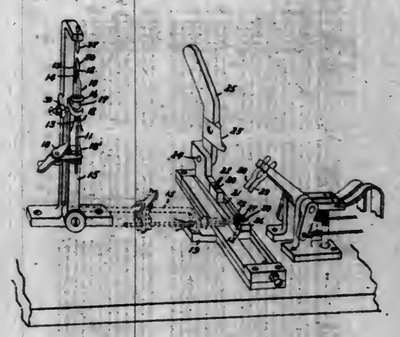
1,751,418. ELECTRON-DISCHARGE APPARATUS. WILLIAM E. PAUL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 10, 1925. Serial No. 61,759. 7 Claims. (Cl. 250—27.)



1. An electron discharge device comprising an evacuated container, a conductor located therein substantially in line with the main axis of said container, a cathode comprising elements grouped about said conductor in substantially the form of a revolute, a cooperating anode arranged in the form of a revolute about said cathode and means whereby a current, different in value from the cathode current, may be supplied to said conductor.

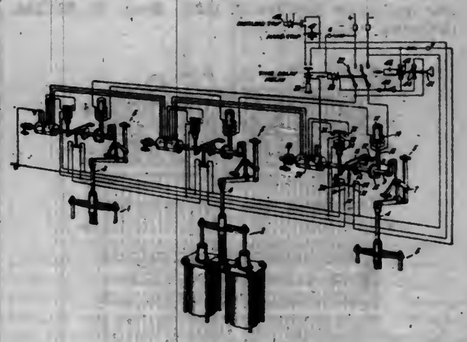
1,751,419. METHOD AND APPARATUS FOR MOUNTING FILAMENTS. ROSCOE G. PHELPS, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Original application filed May 7, 1927, Serial No. 189,514. Divided and this application filed June 9, 1927. Serial No. 197,568. 2 Claims. (Cl. 176—3.)

1. In an apparatus of the class described, the combination of an arm having thereon means for receiving and definitely positioning a stem having leading-in conductors sealed therein and projecting therefrom, a stop for holding said arm in a generally horizontal position, a trimming means comprising a block adapted to be positioned



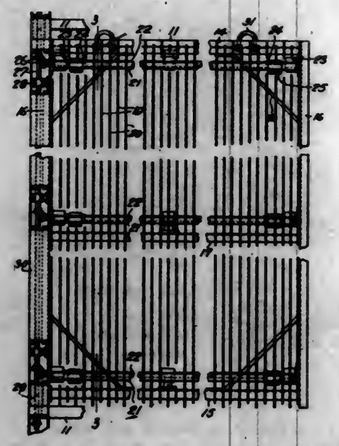
to receive the projecting ends of said conductors, a cutter operatively disposed relatively thereto, a block for receiving and positioning said filament and ends and means for uniting said filament to said ends.

1,751,420. ELECTRIC SWITCH MECHANISM. WILLIAM K. RANKIN, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 25, 1927. Serial No. 178,427. 7 Claims. (Cl. 175—375.)



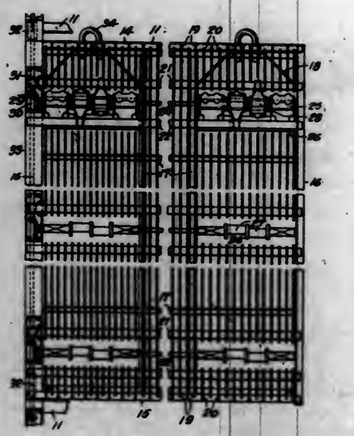
4. A switch for a polyphase system comprising separate switch units for controlling the individual phases of said system, a separate electric operating mechanism for each unit, a common supply circuit therefor, a circuit controller drum associated with each mechanism and rotated thereby, a plurality of brushes engaging each drum, connections between the brushes of the respective drums whereby a continuous current flow is maintained through a plurality of successive series circuits in response to substantially equal rotative movements of the several drums, and means for interrupting said common supply circuit in response to an interruption in said current flow resulting from an unequal movement of said drums.

1,751,421. APPARATUS FOR REMOVING WATER-BORNE MATERIAL FROM RACEWAYS AND THE LIKE. CHARLES R. REID, Shawinigan Falls, Quebec, Canada. Filed Sept. 10, 1928. Serial No. 304,965. 15 Claims. (Cl. 210—172.)



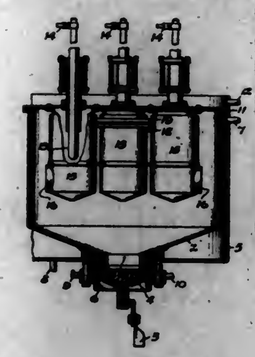
1. A straining rack for water courses comprising a framework and a plurality of substantially vertical bars, and means for imparting an orbital movement to certain of the bars relatively to other bars while maintaining the upstream faces of all the bars in parallelism.

1,751,422. APPARATUS FOR REMOVING WATER-BORNE MATERIAL FROM RACEWAYS AND THE LIKE. CHARLES R. REID, Shawinigan Falls, Quebec, Canada. Original application filed Sept. 10, 1928, Serial No. 304,965, and in Canada Sept. 26, 1928. Divided and this application filed Jan. 9, 1929. Serial No. 331,164. 10 Claims. (Cl. 210—172.)



1. A straining rack for water courses comprising a framework, a plurality of series of substantially vertical bars movable relatively to the framework, a plurality of series of transverse carriers to which the bars of the several series are respectively fixed, a plurality of crankshafts journalled in the framework each having a plurality of cranks for each series of bars and connecting rods rigidly fixed to each series of bars and operatively engaging the cranks of said crankshafts.

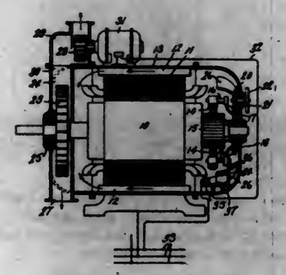
1,751,423. MERCURY RECTIFIER. LEWIS T. ROBINSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 30, 1925. Serial No. 72,234. 4 Claims. (Cl. 250—27.5.)



1. The method of controlling the temperature of a device comprising an anode and a mercury cathode located in a container having an insulated wall portion for supporting said cathode which comprises circulating a cooling medium in contact with the outer wall of said container from the top to the bottom thereof, circulating said medium in contact with the insulated wall portion upon which said cathode is supported and cooling the space surrounding said anode to a temperature at which the vapor pressure therein is maintained at a value below that at which arc-back is likely to occur.

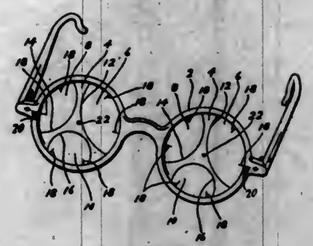
3. A vapor electric device wherein a mercury cathode and an anode are mounted within a container and insulated therefrom comprising a baffle surrounding said anode, and means for circulating a cooling medium in contact with the surface of said baffle.

1,751,424. VENTILATING ARRANGEMENT FOR DYNAMO-ELECTRIC MACHINES. HANS ROSENTHAL, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Dec. 20, 1928, Serial No. 327,431, and in Germany Apr. 25, 1928. 5 Claims. (Cl. 171—252.)



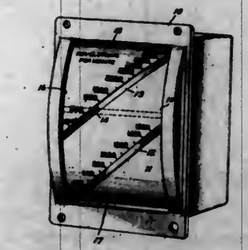
1. A dynamo-electric machine operable over a wide range of speed having a ventilating system including main air-circulating means for said system driven by said machine, means for varying the speed of said machine, and auxiliary air-circulating means controlled by the speed varying means of said machine for supplementing said main air-circulating means when said machine is being operated at slow speed.

1,751,425. BIFOCAL-FITTING DEVICE. GEORGE M. SMITH, deceased, Arlington, Mass., by George William Perkins, administrator, Everett, Mass., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Original application filed June 25, 1925, Serial No. 39,509. Divided and this application filed Nov. 11, 1925. Serial No. 68,318. 4 Claims. (Cl. 33—200.)



1. A bifocal fitting device comprising a fitting lens having a plurality of imitation bifocal wafers of different types marked thereon and spaced along the circumference of the lens and an index associated with each wafer.

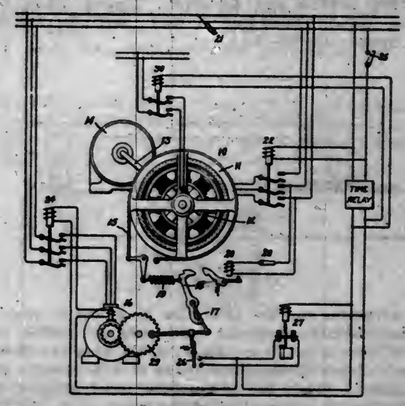
1,751,426. INSTRUMENT SCALE PLATE. GEORGE W. SPRENGER, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 24, 1929. Serial No. 394,894. 7 Claims. Cl. 116—129.)



1. An indicating instrument having at least one diagonal scale and a movable pointer suitably arranged with respect to the said scale whereby the movement of the said pointer will cause a continually varying portion of the said scale to be indirect visual line with a continually varying portion of the said movable pointer.

1,751,427. SYNCHRONOUS-MOTOR CONTROL. FRED L. STONE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 16, 1926. Serial No. 135,958. 8 Claims. Cl. 172—289.)

1. In combination, a synchronous motor having a rotatable field and armature members, one of said members being arranged to drive a load, a brake for the other of said members, a supply circuit for said armature member, switching means for controlling the connections between said armature and said supply circuit, means for controlling the operation of said brake and means dependent upon an electrical condition in said supply circuit for controlling said switching means and said brake controlling means so that said armature is disconnected from said supply circuit and said brake is released upon a failure of the source of supply and upon resumption of the power



of the supply circuit, the connections between said armature and said supply circuit are reestablished and said brake is reapplied.

1,751,428. APPARATUS FOR STRETCHING THE MATERIAL FOR HANDKERCHIEF EMBROIDERY IN THE SHUTTLE EMBROIDERY MACHINE. EMILE STRAUB, Emmishofen, Switzerland. Filed Mar. 3, 1927, Serial No. 172,484, and in Switzerland Mar. 3, 1926. 3 Claims. (Cl. 112—90.)

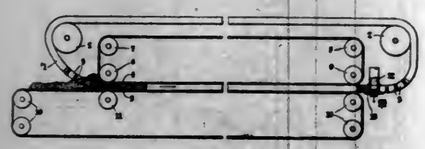


2. A stretching device of the class described comprising a frame for arrangement on the frame of an embroidery machine and provided with parallel shafts mounted for rotation and provided with means to prevent backward rotation and also provided with tubes in which said shafts are concentrically arranged and the inner diameter of which is greater than the diameter of said shafts to form annular spaces around the shafts, each tube being open on one side and each of said shafts comprising a pair of substantially semi-cylindrical members one separable from the other.

1,751,429. REENFORCED BUILDING MATERIAL AND PROCESS OF MAKING THE SAME. GEORGE MILLER THOMSON, Caledonia, Ontario, Canada, assignor to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Filed June 20, 1927. Serial No. 200,302. 1 Claim. (Cl. 106—84.)

The process of reenforcing quick setting calcined gypsum which comprises treating vegetable fibre to open the pores thereof, drying the same and adding said open pore fibre to a slurry consisting of water and said calcined gypsum when the latter is most completely in solution.

1,751,430. PROCESS AND APPARATUS FOR MAKING CELLULAR INSULATING MATERIAL. GEORGE MILLER THOMSON, Caledonia, Ontario, Canada, assignor to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Filed July 25, 1928. Serial No. 295,295. 5 Claims. (Cl. 25—99.)



2. Apparatus for the production of a mobile mass of cellular insulating material comprising an endless perforated band, a belt in contact with said band and closing the upper ends of the perforations in a portion of said band, and a fabric belt closing the lower ends of the perforations in said portion of the band.

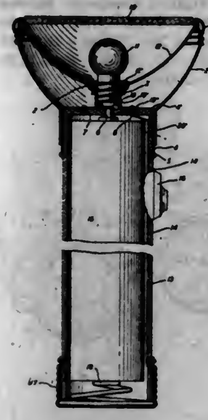
1,751,431. AUTOMATIC AND SEMIAUTOMATIC TELEPHONE SYSTEM. ROMAN TRECHCINSKI, Warsaw, Poland, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a Company of Sweden. Filed Apr. 28, 1928, Serial No. 273,750, and in Sweden May 2, 1927. 3 Claims. (Cl. 179—18.)



1. In a telephone system the combination of subscribers' lines, junction lines, means for connecting a calling subscriber's line to a disengaged junction line, automatic switches for further extending the telephone connection from said junction line, registers for controlling the setting of said switches, automatic switching means for connecting an idle register to a junction line, and means under the control of a register for causing this register to be automatically connected to a disengaged junction immediately upon the register being set free for other connections.

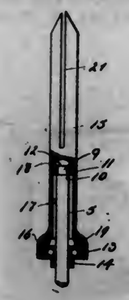
1,751,432. FOCUSING FLASHLIGHT. LEE G. VOORHEES, Long Island City, N. Y., assignor to National Carbon Company, Inc., a Corporation of New York. Filed July 23, 1927. Serial No. 207,919. 8 Claims. (Cl. 240—10.5.)

1. In an electric hand lamp, the combination of a casing having a battery therein; a disk resting upon one end of said casing; a flanged collar securing said disk to said casing; a threaded lamp socket secured to said disk; a reflector having an aperture threaded upon said lamp socket; a head fitting movably mounted upon said collar; a cover glass over the open end of said reflector; a bezel securing said cover glass and said reflector to said head fitting; a lamp in said lamp socket; a conductive rivet in said disk connecting one terminal of said lamp



to one terminal of said battery; and means completing the circuit from the other terminal of said lamp to the other terminal of said battery.

1,751,433. WEATHER VANE. JAMES M. POWER WALLACE, Norristown, Pa. Filed Mar. 8, 1928. Serial No. 259,975. 2 Claims. (Cl. 73—55.)

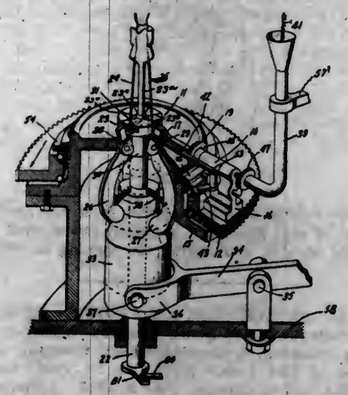


1. In a weather vane, the combination of a staff for mounting upon a suitable support, the upper end of said staff having a reduced tip forming a shoulder, a ball bearing mounted on the extremity of the tip, a second ball bearing mounted on the staff below the first mentioned one and in spaced relation thereto, means to hold the second named ball bearing in place, a post having an enlarged lower end, the lower portion of said post being hollow, shoulders within the hollow portion of the post and spaced a distance equal to the space between the ball bearings and adapted to engage the movable race members of the ball bearings and substantially enclose said ball bearings when the post is placed over the upper end of the staff, said post having its upper end longitudinally slotted, and a vane element mounted within said slot and fixed to the post.

1,751,434. FILAMENT-MOUNTING MACHINE. MARINUS WILDEBOER, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed June 15, 1927, Serial No. 198,086, and in the Netherlands June 30, 1926. 9 Claims. (Cl. 176—4.)

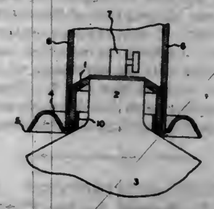
1. In a machine of the character described, the combination of a holder for a mount having hooked leads and

hooked anchors in substantially the same plane, a filament feeding mechanism comprising a filament guide for delivering a filament lengthwise, and actuating mechanism for moving said guide relatively to the mount in said



holder to move its delivery end in substantially said plane and from the hook on one lead past the hooks on said anchors to the hook on the other lead to deliver the filament into the hooks on said leads and on said anchors.

1,751,435. NECK RING FOR COMPRESSED-GAS CONTAINERS. GEORGE H. ZENNER, New York, N. Y., assignor to The Linde Air Products Co., a Company of Ohio. Filed Feb. 2, 1928. Serial No. 251,327. 4 Claims. (Cl. 220—3.)



1. The combination with a gas container, of a protective device comprising a collar secured to a portion of the container, a cap adapted to be secured to said collar and to enclose the same and a member projecting from said collar, said member being reversely curved and the extremity being spaced from the wall of the container.

1,751,436. BLASTING EXPLOSIVE. FRANK H. BERGEIM, Woodbury, N. J., assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 3, 1928. Serial No. 274,976. 11 Claims. (Cl. 52—11.)

1. A dynamite comprising erythritol tetranitrate as the chief sensitizing explosive constituent.

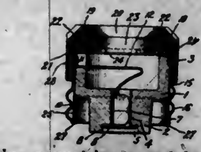
1,751,437. GELATINIZED EXPLOSIVE AND PROCESS OF MANUFACTURE. FRANK H. BERGEIM, Woodbury, N. J., assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 27, 1928. Serial No. 288,800. 19 Claims. (Cl. 52—11.)

1. The process of making a gelatinized explosive which comprises mixing a liquid nitrate of a polyhydroxy alcohol with nitrocellulose in the presence of a nitrate of a polyhydroxy alcohol, having from four to six carbon atoms.

1,751,438. NITRATED SORBITOL. FRANK H. BERGEIM, Leonia, N. J., assignor to E. I. Du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 6, 1928. Serial No. 310,926. 8 Claims. (Cl. 260—144.)

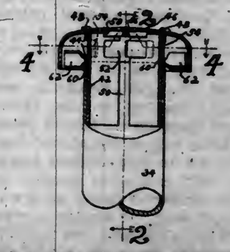
1. As a new compound, solid nitrated sorbitol.

1,751,439. FUSE PLUG. GEORGE R. BROWN, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Feb. 28, 1928. Serial No. 257,704. 4 Claims. (Cl. 200—130.)



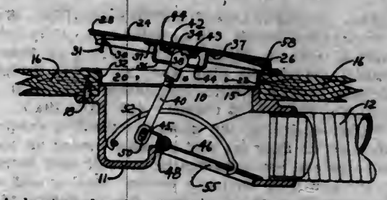
1. A fuse plug comprising a peripherally shouldered insulating base having a chamber open at the top thereof and a center contact in the bottom end thereof, an outer shell surrounding the top and sides of said base and provided with a screw-threaded contact, a holding ring mounted within and secured to said screw-threaded contact and engaging the peripheral shoulder of said base, and a fusible link extending through said chamber and connected at its ends with said center and screw-threaded contacts respectively.

1,751,440. OIL FILLER. MELBOURNE L. CARPENTIER, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 9, 1927. Serial No. 238,774. 6 Claims. (Cl. 121—194.)



1. A filler pipe cover of the class described comprising a split tubular portion having a plurality of openings in the wall thereof at its outer end, a cap secured to said tubular portion closing the outer opening of said tubular portion and extended outwardly and downwardly over said openings, the outer edge of said cap being spaced from the onter periphery of said tubular portion, a sleeve having a plurality of openings in the wall thereof adapted for angular movement around said tubular portion, and a plurality of angularly disposed fins between said cap and the onter periphery of said tubular portion.

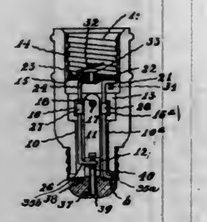
1,751,441. HEATER VALVE. ELBA E. CAMPBELL, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a Corporation of Delaware. Filed July 28, 1927. Serial No. 208,919. 7 Claims. (Cl. 98—2.)



1. A heater chamber having an inlet and two outlet openings, a cover for one outlet opening, a valve positioned

between the other outlet opening and the inlet opening so as to divert air thru one by closing the other, an adjustable rod connecting said cover and said valve and a slot in said rod at said valve connection to allow the valve freedom of movement independent of said cover.

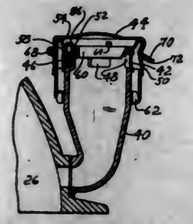
1,751,442. THREE-WAY CURRENT TAP SOCKET. ELLIOTT CLEMENCE, New York, N. Y., assignor, by mesne assignments, to The Monowatt Electric Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 12, 1926. Serial No. 128,815. 8 Claims. (Cl. 173—334.)



1. In a device of the character described, in combination, an insulating body having at one end thereof a chamber open at its face and bottom and having a second chamber communicating with the first chamber, said body having openings through opposite sides thereof communicating with the second chamber and longitudinally extending parallel passageways; said passageways being connected near their outer ends by a cross bore and communicating at their inner ends with the second chamber, a conductive socket shell in the first chamber having its bottom partly cut away, an insulating member in said shell and having a contact member thereon, electrical conductors in said passageways having angular inner and outer ends, the inner end of one of said conductors being electrically connected to said contact member by means passing through said insulating member and the inner end of the other conductor being electrically connected to a portion of said shell, the conductor connected to said contact member having its outer end located in said cross bore and the conductor connected to said shell having its outer end located adjacent to an end face of said body, electrical conductors connected at right angles to the first mentioned conductors intermediately of the outer and inner ends of said conductors and extending transversely of said body and having end portions located in said openings in opposite sides of the body, a conductive shell around the sides of said body near said end face and having an inturned edge portion contacting with the outer end of the conductor connected at its inner end to the first mentioned shell, an insulating cap resting against said inturned edge portion, and a conductive bolt passing through said cap and through said body and secured at its inner end in said cross bore to the outer end of the conductor connected at its inner end to said contact member.

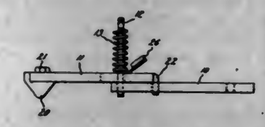
1,751,443. INTERNAL-COMBUSTION ENGINE. WALTER S. COCHRANE, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Apr. 20, 1927, Serial No. 185,208. Divided and this application filed Dec. 9, 1927. Serial No. 238,791. 5 Claims. (Cl. 121—194.)

3. In an engine of the class described, a crank case chamber, an oil filler for said chamber having an opening at its outer end and openings in the side wall thereof, a cover for said filler having a central opening and an inwardly extending flange around the periphery of said opening adapted to be received in the open end of said filler, means for securing said cover to said filler, a portion on said cover extending outwardly from said filler



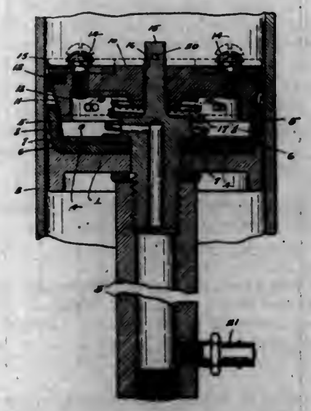
and downwardly over and spaced from the openings in the side of said filler, and a hinged cap secured to said cover for opening and closing the opening in said cover.

1,751,444. SWITCH CONTACT FINGER. ALFRED COHN, Charlottenburg, and ADOLF KUMMEL, Wilmersdorf, Germany, assignors to General Electric Company, a Corporation of New York. Filed Jan. 24, 1927, Serial No. 163,033, and in Germany Feb. 2, 1926. 2 Claims. (Cl. 200—166.)



1. A contact finger comprising a supporting element and a contact element, each having a slot therein of substantially keyhole shape and one of said elements having a projection adapted to engage the enlarged end portion of the key-hole shaped slot of the other element when the restricted ends of the key-hole shaped slots in the two elements are disposed in reversed overlapping relation, and a headed bolt proportioned to separately pass through the slot in each element for detachably locking the elements together with the key-hole slots therein disposed in said reversed overlapping relation.

1,751,445. PISTON CONSTRUCTION. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Mar. 31, 1927, Serial No. 179,994. Renewed Aug. 9, 1929. 1 Claim. (Cl. 74—109.)

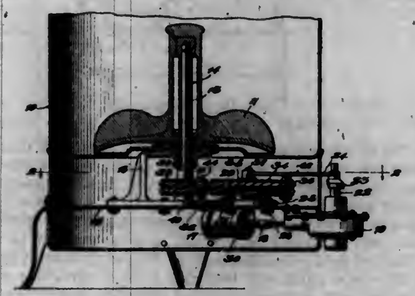


The combination with a cylinder, a piston movable in the cylinder comprising a head formed with a cup-shaped packing for engaging the cylinder wall, a second head

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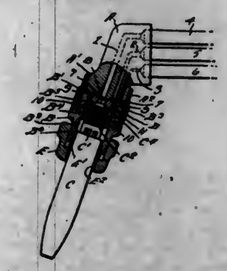
arranged on the pressure side of the first head and movable toward and from the first head and having a packing engaging the cylinder wall, the second head also having a conical portion for entering the cup-shaped portion and expanding the same against the wall of the cylinder, the piston also having a stem projecting in advance of the first head and the second head being slidable on the stem, the second head being formed with a recess formed on its inner face opposed to the first head, said recess and the packing forming a chamber between the heads, the second head having passages leading from the recess therein and opening through the conical face above the edge of the packing and a spring interposed between the heads.

1,751,446. WASHING MACHINE. CLIFTON C. CAMMACK, Newton, Iowa, assignor to Automatic Washer Company, Newton, Iowa, a Corporation of Delaware. Filed June 21, 1929. Serial No. 372,629. 6 Claims. (Cl. 259—101.)



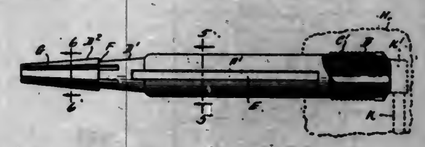
1. In a washing machine, a tub, an agitator disposed therein, driving mechanism for the agitator including a power driven reciprocating arm, a double grooved sheave adapted to be reciprocated by said arm, a second and smaller double grooved sheave connected to the agitator mechanism, and a single flexible cable cooperating with the double grooves in the sheaves to permit a quiet and vibrationless drive of the agitator.

1,751,447. ADAPTER FOR BLOWPIPES. LORN CAMPBELL, Jr., Lakewood, Ohio, assignor to The Harris Calorific Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 30, 1926. Serial No. 158,016. 7 Claims. (Cl. 158—27.4.)



1. An adapter for securing to a blowpipe head a tip comprising an outer member surrounding an inner member with passages for preheating gases provided between the said members and with the inner member extending upwardly beyond the outer member and having a central bore for cutting oxygen, the said adapter having at its upper end a head and a chamber below the said head and into which the outer member of the tip is adapted to telescope, the said adapter being provided with means for securing the inner member of such tip to the adapter head, the adapter head being provided with a passage adapted to deliver oxygen from the passageway in said head to the passageway therefor in such inner tip member and also being provided with passages for delivering oxygen and combustible gas from such blowpipe head to said chamber and from said chamber to the passages formed between the inner and outer tip members, the said adapter being provided with means for securing the upper end thereof to such blowpipe head and with means for effecting a leak-proof joint between the outer tip member and the lower end of the chamber.

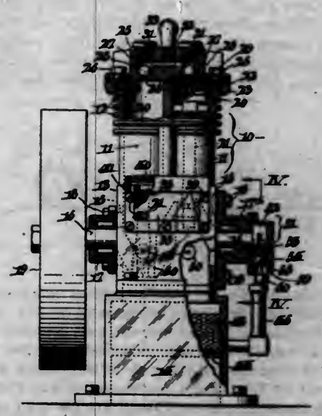
1,751,448. BLOWPIPE TIP AND PROCESS OF MAKING SAME. LORN CAMPBELL, Jr., Lakewood, Ohio, assignor to The Harris Calorific Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1928. Serial No. 286,988. 4 Claims. (Cl. 29—157.)



1. The process of making a blowpipe tip member which comprises providing a cylindrical blank of ductile metal with a central bore extending longitudinally therethrough, upsetting an end of the said blank to provide the same with an enlarged cylindrical projection, thereby compacting the metal comprising the said end and projection, swaging the opposite end of the said blank to substantially frusto-conical shape, and providing the enlarged cylindrical end of such blank with a thread and with a tapered seating portion extending from such threaded portion to the end of the body adjacent thereto.

4. A tip member for blowpipes comprising an elongated body having a central bore therethrough and having one end threaded to enable the said member to be secured in place within a blowpipe head and having a tapered seat-engaging portion extending from the thread, the metal comprising such threaded end being upset, whereby the threaded end is of greater diameter than the portion of the tip member adjacent thereto and the metal in such threaded end is compacted.

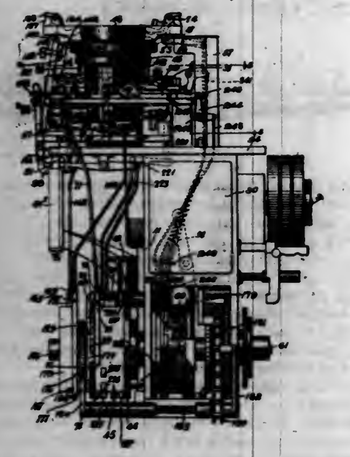
1,751,449. AIR COMPRESSOR. JAMES J. DILKS, Jr., West Collingswood, N. J., assignor to The Newmatix Equipment Co., Audubon, N. J., a Corporation of New Jersey. Filed June 6, 1928. Serial No. 283,148. 9 Claims. (Cl. 230—190.)



1. In an air compressor of the character described, the combination of a cylinder with an integrally formed crank

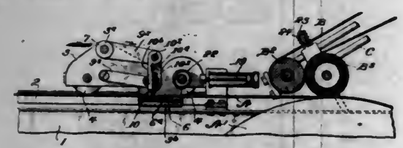
case supported by a hollow base embodying a communicating sump, a crank shaft, said crank case having aligned openings in opposite side walls permitting endwise insertion of the crank shaft, a piston reciprocating in the cylinder, a pitman connecting the piston with the crank shaft, and separate self contained outboard roller bearings for the ends of the crank shaft closing the side openings of the crank case.

1,751,450. MACHINE FOR MAKING FASHIONED HOSIERY. JOHN LAWSON, Central Falls, R. I., assignor to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Apr. 24, 1920. Serial No. 376,380. 57 Claims. (Cl. 66—48.)



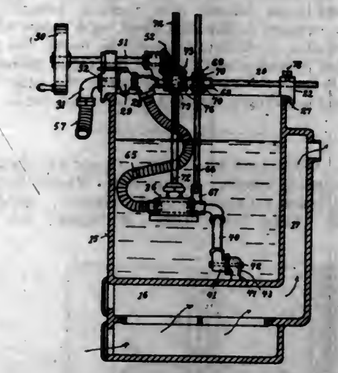
1. A stocking knitting machine having means to knit upon two separate sets of needles two sections of fabric constituting, respectively, the front and back of the foot and leg portions of the stocking, means to form reinforcing loop formations of and by the main threads thereof upon the terminal needles of the said two sections of fabric, thereby reinforcing the selvage portions of each of said two sections by the main thread thereof, and means to fashion one of said sections.

1,751,451. APPARATUS FOR PRODUCING SPACED BLANKS FROM A CONTINUOUSLY-MOVING PLASTIC SHEET. ALBERT G. SMITH, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 16, 1928. Serial No. 319,870. 10 Claims. (Cl. 164—49.)



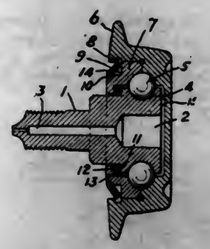
1. Apparatus for the purpose described comprising an endless carrier belt for sheet stock with means for imparting continuous movement thereto, and severing means for the stock comprising a platen beneath the belt and a knife movable towards and from the same, means whereby the movement of belt effects movement of the knife and platen when the belt and stock sheet are clamped between the knife and platen, and means for causing the knife and platen to travel in a direction contrary to that of the belt when the knife is elevated.

1,751,452. ASPHALTUM-HEATER APPARATUS. HERMAN H. STREITMANN, Cincinnati, Ohio, assignor to Littleford Brothers, Cincinnati, Ohio, a Firm composed of John S. Littleford, Thomas S. Littleford, John S. Littleford, jr., and Roger S. Littleford. Filed May 9, 1925. Serial No. 29,242. 3 Claims. (Cl. 103—218.)



1. In an apparatus for pumping asphaltum and similar substances normally semi-solid at atmospheric temperatures, comprising a fluid container, a pump supporting member adapted to be supported upon said container, a fluid pump supported by said pump supporting member within said container in position to be submerged in the contents of said container, a fluid discharge conduit leading from said pump and having a portion extending over the rim of said container, a pump actuating means carried by said pump supporting means and adapted to be operated from the exterior of said container, and means for raising the pump without raising the height of the rim portion of said discharge conduit.

1,751,453. ANTIFRICTION WHEEL. FRANK BEMMER, Philadelphia, Pa. Filed June 25, 1927. Serial No. 201,408. 1 Claim. (Cl. 308—190.)



An antifriction wheel structure including a tubular axle element having a lubricant inlet and chamber and provided externally with a ball groove and with a shoulder, a hub element consisting of an outer portion having a half ball groove and an annular groove and of a ring shaped inner portion having a flange and a conical portion and a shoulder, there being a dust guard between said shoulders and an oil passage between the hub and axle element, balls in said races, and a washer expanded and permanently seated in said annular groove and engaging said flange.

1,751,454. WEATHER STRIPPING. MAURICE E. BOSLEY, Chicago, Ill. Filed Apr. 4, 1924. Serial No. 704,112. 4 Claims. (Cl. 20—69.)

1. A weather stripping for sealing the space between co-operating closure members, comprising a strip folded intermediate its free edges to provide by the junction of said edges a tubular portion and outwardly extending free edges, a yieldable portion enclosed within said tubular portion, one of said free edges being longer than the other and arranged to lie in contact with one face of the shorter edge, and thence extending a fold over the free raw edge of the shorter edge and extending to the junction of said tubular portion and said shorter edge to wholly enclose said shorter edge, a stitching securing the three plies



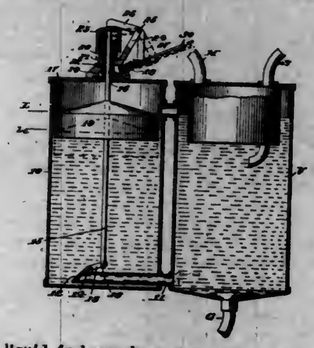
formed by said shorter edge and said folded longer edge substantially at said junction and waterproof adhesive material interposed between said opposite face and the adjacent folded over face of the longer edge of said strip, whereby said single stitch and such waterproof adhesive material maintain said tubular portion and said folded plies in position while providing a relatively stiff marginal tacking flange adapted to exclude moisture from entering the interior of said flange.

1,751,455. SIGN. JOHN J. DARBY, Washington, D. C. Filed June 28, 1929. Serial No. 374,443. 20 Claims. (Cl. 40—37.)



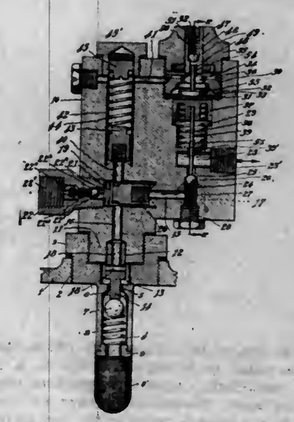
1. A sign comprising a mirror having a reflecting surface adapted to provide visible reflections, said surface being exposed to sunlight rays, stencil means disposed for the passage of light rays therethrough as they pass to the mirror, said stencil means being arranged to be visibly reflected by the mirror, and means movable for intermittently preventing and permitting passage of the light rays through the stencil means to the mirror without interrupting the visibility of the mirror, whereby to produce a flashing effect of the stencil indicia therein, said last-mentioned means when moved to light passing position being disposed so as not to produce a visible image in the mirror.

1,751,456. LIQUID-RESERVE TANK. ROBERT H. GILLESPIE, Little Rock, Ark., assignor to Mid-West Specialty Company, Little Rock, Ark. Filed Dec. 8, 1927. Serial No. 238,607. 4 Claims. (Cl. 158—46.5.)



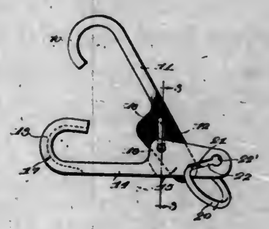
1. In a liquid fuel supply system for an internal combustion engine, an emergency fuel supply tank, a conduit through which the liquid in said emergency tank may flow to the engine carburetor, normal fuel supply means connected to said conduit so that liquid fuel may pass through the conduit to fill the emergency tank during normal operation, a closing valve on said conduit, a float in said emergency tank, a vertically movable rod rigidly connected to said float and attached to said valve to close the same when the float is raised to a predetermined level by the liquid in said emergency tank, and a further conduit from said normal fuel supply means opening into said emergency tank at a point above said predetermined level to admit further liquid fuel into said emergency tank after said valve is closed whereby to maintain an excess buoyancy of said float over that required to close the valve.

1,751,457. SAFETY VALVE. CHARLES F. HEYWOOD, Detroit, Mich., assignor to Sky Specialties Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 26, 1928. Serial No. 264,815. 10 Claims. (Cl. 137—53.)



5. A pressure regulating device adapted for connection between a pump and a receiver and establishing a path therebetween, said device having a chamber, a line of communication from said path to said chamber, pressure actuated relief means in said chamber, means opposing movement of said pressure member, and a normally closed check-valve-controlled vent from said line.

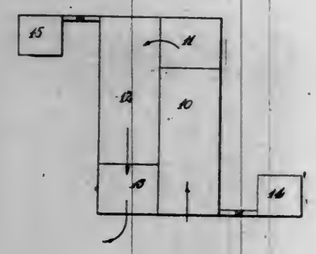
1,751,458. SAFETY SHACKLE SNAP. JOHN J. VAN VALKENBURG, Lowe Inlet, British Columbia, Canada. Filed July 12, 1929. Serial No. 377,829. 2 Claims. (Cl. 24—242.)



1. A snap hook comprising an elongated shank having a hook portion at one end and a flattened portion at its opposite end, a second shank having a guard portion at

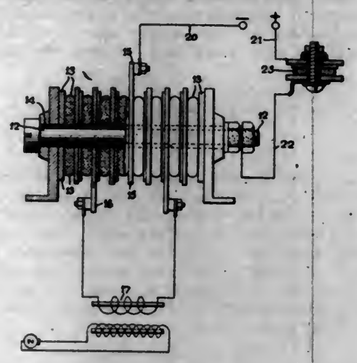
one end for cooperation with said hook portion, a casing at the opposite end of said second shank and adapted to house said flattened portion when the hook and guard portions are engaged, a pin and slot connection between the inner end portions of the said flattened portion and said casing, and movable means in one position of its use being cooperative with the outer end portions of said flattened portion and said casing for locking said hook and guard portions in engaged positions and turnable to another position of use to allow the hook and guard portions to be released.

1,751,459. PROCESS FOR BIOLOGICAL PURIFICATION OF WASTE WATER. FRITZ SIMMER, Lesienice, near Lwow (Lemberg), Poland, assignor to Aktieselskabet Dansk Gaerings Industri, Copenhagen, Denmark, a Joint Stock Company. Filed Jan. 13, 1928, Serial No. 246,652, and in Austria Mar. 2, 1926. 20 Claims. (Cl. 210—9.)



1. The method of treating sewage which comprises subjecting the same to biological action in a plurality of successive metabiotic stages corresponding respectively to each of the main biochemical groups of the impurities contained in the sewage, wherein the sewage is acted upon by adding thereto at such successive stages particular micro-organisms specifically active for decomposing such particular main groups of polluting contents in the sewage, which particular organisms are brought to predominance within the said respective stages.

1,751,460. ASYMMETRIC ELECTRIC COUPLE. SAMUEL RUBEN, Brooklyn, N. Y., assignor to Ruben Rectifier Corporation, Englewood, N. J., a Corporation of Delaware. Filed Nov. 16, 1925. Serial No. 69,215. 12 Claims. (Cl. 175—366.)



1. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electro-positive electrode element chosen from the class of lighter chemical elements of the second and third periodic groups, an electronegative electrode element of a body containing a compound of a chemical element from the oxygen family in the sixth periodic group and resistance modifying material of a character adapted to impart self forming and self maintaining characteristics to the inverse current-blocking film which forms at the junction, and means for retaining said electrode elements operatively in contact under pressure.

5. In dry surface contact rectifying devices and the like, an asymmetric couple comprising an electropositive electrode element chosen from the class of lighter chemical elements of the second and third periodic groups, an electronegative electrode element of a body containing a compound of a chemical element from the oxygen family in the sixth periodic group with copper alloyed with a resistance increasing metal of a character adapted to impart self-forming and self-maintaining characteristics to the inverse current-blocking film which forms at the junction, and means for retaining said electrode elements operatively in contact under pressure.

Patents Nos. 1,751,461 to 1,752,284

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THE

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Reissues	3—No. 17,627 to No.	17,629, inclusive.
Designs	52—No. 80,768 to No.	80,819, inclusive.
Patents	824—No. 1,751,461 to No.	1,752,284, inclusive.
Total	1,187	

Interviews with Examiners

RULE 13. Interviews with Examiners concerning applications and other matters pending before the Office must be had in the Examiners' rooms at such times, within office hours, as the respective Examiners may designate; in the absence of the Primary Examiners, with the assistant in charge. Interviews will not be permitted at any other time or place without the written authority of the Commissioner. Interviews for the discussion of pending applications will not be had prior to the first official action thereon.

Disclaimers

1,388,434.—*Gustave V. Johnston*, Chicago, Ill. METHOD AND APPARATUS FOR BUTT-WELDING THIN-GAGE TUBING. Patent dated August 23, 1921. Disclaimer filed February 24, 1930, by the assignee by mesne assignments, *Steel and Tubes, Inc.*

Hereby does disclaim from the scope of claims 1 and 2 of the said Letters Patent any and all processes of butt-welding other than those in which the heavy electric current passing between the abutting edges to be welded is localized to a condensed stream going across the seam cleft, and in which the welding heat is produced in the edges only of the blank to form the weld at those edges and raise only a small burr; and your petitioner hereby does disclaim from the scope of claim 22 of the said Letters Patent any and all butt-welding apparatus other than those in which the welding throat is of slightly less sectional area than the cross section of the tube blank and the weld is effected by pressing together the contacting surfaces of the seam to a degree producing but a small burr accordant with the restriction of the greatest softening effect substantially to the contacting surfaces of the seam.

1,542,808.—*Charles Gordon*, Milwaukee, Wis., and *Alfred W. Redlin*, Saginaw, Mich. LATHE. Patent dated June 16, 1925. Disclaimer filed February 24, 1930, by the patentees and the assignee by mesne assignments, *The Gordon Form Lathe Company.*

Hereby enter this disclaimer and disclaim from the scope of claims 23 and 24 of said patent all lathes and other machine tools, except those employing single-point cutting tools for the turning of irregular or non-geometric forms out of metal.

1,586,764.—*Harold Joseph Wheston*, Lower Walton, near Warrington, England. BASE-EXCHANGE SILICATE AND PROCESS OF MAKING IT. Patent dated June 1, 1926. Disclaimer filed March 11, 1930, by the assignee by mesne assignments, *American Dowell Company.*

Enters this disclaimer to that part of the claims in the said specification which are in the following words, to wit:

"7. In the manufacture of a base-exchanging compound in the wet way the step which consists in forming a stiff or solid gel from and including the whole mass of a mixture of solutions of sodium silicate and sodium aluminate."

NOTICE

COPYING CLAIMS FROM PATENTS

Counsel prosecuting applications for patents are advised that in presenting any claim or claims copied or substantially copied from a previously issued patent there must be added a clear statement setting forth the origin of the claim or claims and the identifying data of the patent, since otherwise counsel may be deemed to be seeking, obviously improperly, to obtain a claim or claims to which the applicant is not entitled under the law without an interference, or the Examiner may be led into making an action different from what he would have made had he been in possession of all the facts. Examiners are directed to promptly call the personal attention of the Commissioner to any failure of counsel to follow the above indicated procedure.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business March 14, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,804; Trade-Mark Division, 1,534. Oldest new case, May 13, 1929; oldest amended May 1, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	July 3	Aug. 2	1,338
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	June 18	June 26	2,048
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	June 22	Sept. 25	1,557
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Aug. 2	Aug. 12	1,262
109*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	June 3	June 1	1,561
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	May 13	May 1	3,232
106	7. JARBOE, C. G., Optics; Photography	June 1	June 1	2,543
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	June 24	Sept. 13	1,578
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Aug. 15	Sept. 3	1,565
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	June 19	July 19	1,795
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Sept. 23	Oct. 7	955
280	12. PIERCE, P. P., Machine Elements	Aug. 16	July 27	1,458
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	June 28	June 28	1,629
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	May 18	June 6	1,488
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	May 21	May 23	3,020
242*	16. SPENCER, C. J., Telegraphy; Telephony	June 28	Aug. 24	1,258
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	May 17	June 27	1,627
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	July 22	July 20	1,473
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	June 20	June 17	2,166
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	July 12	July 15	1,594
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 9	Sept. 21	863
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 22	Aug. 20	1,704
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	May 14	June 1	1,223
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 17	June 8	1,312
302*	25. LIGHTFOOT, T. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	July 9	July 12	1,596
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	June 5	July 3	1,265
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	May 31	June 7	1,633
225	28. BENSON, A. R., Internal-Combustion Engines	July 20	July 22	2,079
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Sept. 25	Sept. 23	788
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	June 15	Nov. 25	1,255
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	June 22	July 1	2,562
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 7	Aug. 3	1,813
182	33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 20	May 28	2,632
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	June 29	July 11	1,168
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Sept. 3	Sept. 23	1,911
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	June 28	July 15	2,338
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 4	June 8	2,218
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	June 1	June 3	2,094
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 21	May 22	2,063
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	May 29	Aug. 16	2,067
126	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	July 9	Aug. 1	1,414
222*	42. CUTTING, H. O., Electric Signaling	Aug. 1	Aug. 22	1,604
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	May 17	May 20	2,432
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	May 16	May 20	2,376
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	May 22	June 1	2,504
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 11	July 17	1,734
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	May 15	June 17	2,609
212*	48. ROEPKE, O. B., Electricity, General Applications	June 12	June 15	1,407
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Aug. 31	Sept. 7	1,200
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	June 3	June 12	2,935
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	June 19	June 17	2,358
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	July 25	July 22	2,581
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 12	July 19	1,353
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	June 10	June 10	2,800
102	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	†Feb. 14	†Feb. 28	419
	Designs	Nov. 14	Nov. 14	473
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	June 10	June 14	2,434
267*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	May 27	July 2	1,278
270*	58. DOWELL, E. F., Abrading; Typewriting	May 15	May 15	1,465
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	June 4	June 4	2,961
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	June 4	June 14	2,355
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	May 23	May 27	2,582
248*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	June 27	July 1	2,799
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND:—Trade-Marks	†Feb. 15	†Mar. 3	1,395
	Labels and Prints	†Feb. 14	†Feb. 28	139

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Williams

No. 2,141. Decided December 30, 1929

1. Patentability—Invention.

"There is no invention in changing the size and proportion of a device or machine so long as the construction and mode of operation remain the same. It is a settled principle of law that a mere carrying forward of an original patented conception involving only change of form, proportions or degree, or the substitution of equivalents doing the same thing as the original invention, by substantially the same means, is not such an invention as will sustain a patent, even though the changes of the kind may produce better results than prior inventions."

2. Same—Connectors for Electrical Conductors.

Certain claims for connectors for electrical conductors *Held* unpatentable over the prior art.

Appeal from the Patent Office. Affirmed.

Mr. J. H. Milans and *Mr. C. T. Milans* for Williams.

Mr. T. A. Hostetler for the Commissioner of Patents.

Graham, *P. J.:*

Paul F. Williams, the appellant, filed his claim in the Patent Office on January 8, 1921, for a patent on improvements in connectors for electrical conductors. The claims involved in this proceeding are numbered 11, 12, 13, 19, 20, and 21. Claims 11, 12, and 13 were rejected by the Examiner by reference to a patent to the appellant, Williams, No. 1,228,156, dated May 29, 1917, and claims 19, 20, and 21 on a patent to Wyman, No. 1,441,193, dated January 2, 1923. The Board of Appeals affirmed this decision and the applicant has appealed.

The disputed claims are as follows:

11. In a device of the class specified, plug and socket terminals and an arcing ring detachably mounted at the open end of the socket terminal.

12. In a device of the class specified, the combination of a tubular insulator and a cap therefor, a socket terminal carried by the tubular insulator, a plug terminal carried by the cap and an arcing ring detachably mounted at the open end of the socket terminal.

13. In a device of the class specified, the combination of a tubular insulator and a cap therefor, a socket terminal carried by the tubular insulator, a plug terminal carried by the cap and an arcing ring having threaded connection with the open end of the socket terminal.

19. A device of the class specified having separable terminals each of which has a detachable and replaceable arcing member.

20. In a device of the class specified a plug member having a detachable contact member and a socket member having a detachable arcing ring for preventing arcing on said socket member.

21. In a view of the class specified a connector having an elongated central recess, a plug member for contacting within said recess, said plug member having a removable outer contact member, and said connector having a removable shouldered annular member forming the exposed end of said connector.

The device which the appellant claims to have improved is that form of electrical conductor which is ordinarily known as a pothead conductor. In this device, which is intended to make an adjustable connection between a cable and an overhead conductor, two members are provided, both made of some sort of nonconducting material such as porcelain, one substantially tubular in form and the other a cap adapted to fit over and upon the upper end of the tubular member. The tubular member contains a metallic socket while the cap member contains a metallic pin or plug adapted to be inserted into the aforesaid socket. The said socket is connected by suitable devices to the cable, while the plug is likewise connected to the overhead conductor. When the two are in contact, an electrical connection is made.

The claimed novelty in appellant's device, as set out in said claims 11, 12, and 13, is a metallic ring surrounding the end of the metallic socket in the tubular member, and which is claimed to be so inserted for the purpose of constituting an arcing ring. It is small and removable, and it is claimed receives whatever burning or damaging effect there may be by the spark caused by the separation of the plug and socket. The specifications disclose that this arcing ring is attached to the socket member. These specifications are as follows:

> Another ring or member 25 is preferably placed upon the top of the threaded end 20, said member 25 being also screw threaded so that it may be screwed down on the top of the portion 20 and being also provided with an inwardly extending flange 26 adapted to fit down on the top of the portion 20. This ring or member 25 serves as a removable end or portion of the member 5, and so receives whatever burning or damaging effect there may be by the spark caused by the separation of the terminals 9 and 5. Being removable, the ring 25, which may be called the "arcing" ring, may be removed when worn or burnt out and another one may be put in its place. The arcing ring 26 is preferably provided with convenient means for turning it to put it in its proper place and remove it therefrom, as for example by providing its top flange with apertures 27—27, in which the prongs or pins of a wrench may be inserted.

The Examiner and the Board of Appeals both held that all these principles and elements were fully disclosed in the reference patent to Williams.

We have examined the Williams reference with care. There is considerable doubt, induced by the lack of clearness in the drawings and ambiguity of the specifications in the reference, as to the exact structure of the device therein described. The specifications are, in part, as follows:

> Referring to Fig. 4. I have shown an individual device involving a disconnecting arrangement. The body part 12 contains a socket member 47, into the lower end of which the bared end 23^b of the cable conductor is inserted. This member 47 has a socket 48 into which a plug member 49 is introduced and held by screws 26^b—26^b, passing through the upper end of the insulating tube or member 12. The plug member 49 is hollow or cylindrical having a collar 50 at its upper end fitting against the upper end of the socket member 47. A plug connecting device 51 has a reduced end portion 52 which fits into the member 49 * * *.

From the mere reading of these specifications it would appear that the member 49 of the reference, and which bears the cylindrical collar 50, might be considered as a plug which is withdrawn when the electrical connection is broken. The Examiner, however, and the Board of Appeals, both consider it as a bushing which is left in place in the socket on the withdrawal of the plug, leaving the collar 50 in place around the opening in the socket terminal. The appellant insists in his brief and argument that there are typographical errors in the specifications filed in the matter of said reference patent, and that by read-

ing certain language into these specifications, it will be found that the member 49 of the reference patent is not a bushing but a removable plug, and that the collar member 50 of the reference patent is attached to the base of the plug in the plug terminal. We are not permitted to thus enlarge the specifications which have been filed, and which have been made the basis of the issuance of the patent in question. In measuring the claims of the appellant here by the reference patent, the latter must be taken with its claims, drawings, and specifications as they appear of record.

It is apparent that appellant's position in this respect differs here from that taken by him in the Patent Office. In his petition for rehearing, filed with the Board of Appeals, he states "the part 49 is merely a lining for the terminal 37." Again he refers to it in this petition as "the whole lining of the socket recess." Further he states "in the second place the part 49 is not mounted at the open end of the socket terminal; instead the part 49 is a sleeve and it extends the whole length of the socket terminal and not merely at the open end thereof." Furtner expressions of the same kind are used to the extent that it is apparent that appellant considered part 49 to be a bushing or sleeve, bearing at its upper extremity, and at the orifice of the socket terminal, a brass collar extending outward over the edge of the socket member 48. This bushing 49 is removable, this being apparent from the specifications referred to, wherein it is stated that it is held in place by screws. It is also equally obvious that if member 49 was the removable plug member, it would not be held in place with set screws, as we have seen it is.

[1, 2] It is argued by appellant that the ring or member 25 shown in his present application, serves as a removable end, or portion of the socket member, and receives whatever burning or damaging effect there may be by the spark caused by the separation of the plug and socket terminals; that this is a comparatively cheap and inexpensive appliance which performs a useful function in protecting the expensive socket member from burning and injury. We are unable to see any material difference in this respect between the structure and function of appellant's member 25 and the bushing member 49 of the reference patent. It is true the member 25 is attached to the upper portion of the socket member and extends downwardly upon the exterior and not upon the interior portion thereof, as does member 49 of the reference patent. Their functions, however, and structure, are apparently the same. We agree with the tribunals in the Patent Office that there is no novelty in the claim and that the reference patent was properly cited in support of the refusal of claims 11, 12, and 13.

There is no invention in changing the size and proportion of a device or machine so long as the construction and mode of operation remain the same. *Kil-Nock Co.* v. *Chicago Plating Co.*, 10 F. (2d) 536; *Westinghouse Electric & Mfg. Co.* v. *Pittsburgh Transformer Co.*, 10 F. (2d) 593; *Linde Air Products Co.* v. *Morse Dry Dock Co.*, 239 F. 909–917. It is a settled principle of law that a mere carrying forward of an original patented conception involving only change of form, proportions or degree, or the substitution of equivalents doing the same thing as the original invention, by substantially the same means, is not such an invention as will sustain a patent, even though the changes of the kind may produce better results than prior inventions. *In re Iwan*, 95 O. G. 441, 17 App. D. C. 566; *In re Marshutz*, 85 O. G. 778, 13 App. D. C. 228; *Smith* v. *Nichols*, 21 Wall 112, 119.

Claims 19, 20, and 21 were rejected on Wyman. These claims are based upon the principle of terminals each having a detachable and replaceable arcing member. The Patent Office has concluded that Wyman shows this. On inspection we agree with the Office in this respect. While the arcing member 21 in the Wyman patent is not located at the end of the plug connection, nevertheless it is quite plainly apparent that it is detachable and can be removed without injury to the balance of the plug member. Its location is not particularly involved, so far as the claims are concerned. All these claims rest upon is that each terminal shall have a detachable and replaceable arcing member. These objects, we think, were accomplished in the Wyman reference.

We therefore conclude that the decision of the Board of Appeals as to all the claims should be affirmed. This will be the order.

Affirmed.

U. S. Court of Customs and Patent Appeals

JARDINE v. HARTOG

No. 2,143. Decided January 13, 1930

INTERFERENCE—PRIORITY.

Priority *Held* properly awarded to H. on the ground that he, the senior party, had established priority of conception and that J., the junior party, had not established a reduction to practice prior to his own filing date.

APPEAL from the Patent Office. Affirmed.

Mr. Frederic M. Bosworth, *Mr. F. O. Richey*, *Mr. B. D. Watts*, *Mr. A. H. Van Horn*, and *Mr. James A. Hoffman* for Jardine.

Mr. L. C. Kingsland and *Mr. J. D. Rippey* for Hartog.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from a decision of the Commissioner of Patents.

The Examiner of Interferences, the Examiners in Chief, and the Commissioner of Patents have concurred in awarding priority of invention to appellee, Stephen D. Hartog.

The invention in issue relates to certain structural improvements in pistons for internal-combustion engines.

The counts in issue read as follows:

1. In a piston of the class described, a cup-like head comprising a pressure receiving end and a wall portion, a skirt circumferentially disconnected from the wall portion of the head and divided from end to end, and skirt carriers connecting said skirt to the pressure receiving end, said skirt carriers being disconnected from the wall portion of the head and susceptible of being slightly flexed radially.

2. A piston comprising a head, a skirt having resilient sections separated from said head by a slit extending continuously around the piston, and means for yieldingly connecting said skirt sections with said head.

As aluminum expands more rapidly than iron, when heated, it has always been necessary, when using aluminum pistons, to allow considerable clearing for expansion, so that, when heated, they would not "score" the iron cylinders. When the pistons were cold, they not only "slapped" and made considerable noise, but oil was permitted to enter into, and gas to escape from, the cylinders. These difficulties, according to the claims of the parties to this interference, have been solved by the involved invention.

Hartog's application, No. 359,137, was filed on February 16, 1920.

Jardine's application, No. 450,898, is a renewal of an application originally filed March 11, 1920. Jardine is, therefore, the junior party and has the burden of proof.

In his preliminary statement, Hartog made the following claims: that he conceived the invention and disclosed it to others on or about November 15, 1918; that he made his first drawings on or about August 1, 1919; and that, on or about September 1, 1919, he reduced the invention to practice by making a piston of the kind in issue.

In his preliminary statement as to count 1, Jardine alleged that he conceived the invention and disclosed it to others on or about May 11, 1919; that he made drawings on or about July 24, 1919; that on or about March 9, 1920, he made the first written description of the invention; and that he never made or operated any full-sized pistons embodying the invention.

Originally, there were two interferences—Nos. 49,578 and 49,583. Later these two interferences were consolidated, and count 2 involved here was taken from interference No. 49,583.

In his preliminary statement as to count 2, Jardine alleged that he conceived the invention and disclosed it to others on or about May 11, 1919; that on or about July 24, 1919, he made drawings; that on or about March 9, 1920, he prepared a written description; that he first embodied the invention "in the full sized piston casting which was made on or about December 13, 1919"; and that on or about March 5, 1920, pistons embodying the invention were first successfully operated. Thereafter, and during the progress of the taking of testimony, Jardine filed a motion to amend his preliminary statement as to count 2, in the following respects:

5. That he first embodied the invention of the said count in a full sized piston, which was made on or about August 5, 1919.

6. That on or about August 5, 1919, the first full sized piston embodying the invention of the said count was first successfully operated in Cleveland, Ohio; * * *.

A ruling on the motion to amend the preliminary statement was deferred by the Examiner of Interferences until after the evidence of the parties had been submitted. When the evidence was finally submitted, the Examiner of Interferences denied the motion on the ground that Jardine had failed to establish the facts alleged therein.

Each of the tribunals below have exhaustively considered and analyzed the evidence, and have concurred in awarding priority of invention to appellee, Hartog. Accordingly, this court ought not to reverse the decision of the Commissioner, unless it is manifestly erroneous. Authorities need not be cited in support of this proposition.

The Examiner of Interferences held that appellant was entitled to May 11, 1919, for conception and disclosure; that appellee, Hartog, was entitled to about October 6, 1919, for conception and disclosure. He found that neither party had reduced the invention to practice, prior to the filing of their respective applications; and that, while appellant was the first to conceive the invention, he was not diligent in reducing it to practice; and, therefore, as appellee was first to file his application, he was entitled to an award of priority.

The Examiners in Chief held, and properly so we think, that appellee actually conceived and disclosed the invention to others as early as December, 1918; that neither party had reduced the invention to practice prior to the filing of their respective applications; that appellant was entitled to no earlier date than July for conception and disclosure; and that, as appellee was the first to file an application for the invention, he was entitled to an award of priority.

In making these findings, the Examiners in Chief discussed the evidence in considerable detail. It is, therefore, unnecessary for us to restate the facts upon which the decision was based.

The Examiners in Chief further said that, if they were wrong in holding that appellee was the first to conceive the invention, nevertheless, he was entitled to an award of priority, because of the failure of appellant to exercise diligence in reducing the invention to practice.

The Commissioner of Patents affirmed the decision of the Examiners in Chief, and, again, the facts in the case were clearly, concisely, and, in our opinion, correctly stated.

Although he awarded priority of invention to appellee, the Examiner of Interferences, in considering the evidence in the case, extended the utmost consideration to appellant, the junior party. We quote from his decision:

There are some weak points in the testimony of Stark, Miller and Kaufman. Stark, for instance, fixes the date of disclosure by reference to a business conference between himself and Hartog which related to an altogether different matter and he admitted (Q. 8, p. 79, Hartog's printed record) he met Hartog on several occasions thereafter, and on some of these they discussed Hartog's piston. Stark, therefore, must be considered to fix the disclosure early in December, 1918, by sheer feat of memory. The same may be said about Kauffman (Q. 9) and Miller (X Q. 38).

Notwithstanding this and notwithstanding the witnesses were testifying some seven years after the event, it is believed to be proper if Jardine is to be accorded May 11, 1919, for disclosure to accept the testimony as establishing a date as early as July 22, 1919, for disclosure of the invention, since Hartog and his son Paul, Miller, Kauffman, and Stark all gave testimony to support a date as early as that and even much earlier. *Indeed, it would be as proper to accord Hartog a date for disclosure prior to May 11, 1919, but that is not important as will appear hereinafter.* (Italics ours.)

It is true that the witnesses, Stark and Miller, who said that Hartog disclosed the invention to them in

December, 1918, testified from memory. However, Stark's testimony was given in September, 1921, in another interference proceeding—No. 45,351, and it was incorporated into this record by stipulation of counsel. Therefore, the criticism that his testimony was given seven years after the matters involved therein had taken place, is not well founded.

The testimony of the witness, Stark, is clear, concise, and intelligently positive. Furthermore, the reasons he gave for recalling that Hartog disclosed the invention to him in December, 1918, are reasonable and plausible.

It is true that no drawings or other documentary evidence was offered to corroborate this witness. Had his testimony been fabricated, it would have been an easy matter for him to have produced corroborative documentary evidence. His testimony and that of Hartog is, to some extent, corroborated by that of the witness, Prudot, who recalled that Hartog and Stark had some conversation concerning Hartog's invention, and that Hartog explained the invention in detail to Stark. He frankly admitted, however, that he did not recall the details of the conversation.

It further appears that Hartog disclosed the invention to the witness, Miller, sometime in December, 1918. Miller was associated in business with Hartog during the years 1918 and 1919; and the reasons he gave for recalling the conversation with Hartog and the date when it occurred are reasonable, and in our opinion, his testimony is entitled to great weight.

We have searched the record to ascertain whether appellant is entitled to a finding that he reduced the invention to practice prior to his filing date. We are unable to find any evidence from which such a fact may be deduced.

For at least three months during the summer and fall of 1919, appellant's assignee—The Aluminum Castings Company—was engaged in testing a "Ricardo piston." There is testimony to the effect that someone "split" the "skirt" of one of the "Ricardo pistons"; that it was then tested by "hand pressure" to ascertain its flexibility; and that it was found to be sufficiently flexible for operative purposes. However, assuming that the altered "Ricardo piston" conformed to the subject matter of the issue, we are not impressed with the contention that the involved invention and its intended functions are sufficiently simple to make a "hand pressure" test an actual reduction to practice.

Counsel for appellant, in arguing that the hand-pressure test of the alleged invention was an actual reduction to practice, has gone so far as to say:

> We say that the Aluminum Castings Company was justified in continuing the tests on the Ricardo piston before testing the piston of Exhibits 1 and 2, both because the Ricardo piston was routed ahead of Exhibits 1 and 2 and because since the improvement of the piston of Exhibits 1 and 2 is so slightly different from that of the Ricardo piston and the effect of the changes were so well known that the work upon the Ricardo piston was work upon the Jardine piston of Exhibits 1 and 2. • • • We would not contend that this hand test was sufficient to demonstrate its operativeness, if the Ricardo piston had been a virgin piston. • • • The splitting of the skirt was an improvement which, as we have already said, had been tried out in a number of other types of pistons. The change in operation which it would effect in the Ricardo piston was well known. In fact, not even hand tests were necessary to prove to the skilled engineer the effect upon the Ricardo piston of splitting the skirt.

These statements come very close to suggesting that the alleged invention is not patentable.

It seems perfectly obvious from the testimony that the officers of The Aluminum Castings Company had but little confidence in the alleged invention of appellant until late in the year 1919 or early in the year 1920. As stated by the witness, Watts, (at that time counsel for appellant):

> The policy [of appellant's assignee—The Aluminum Castings Company] was always to be certain that an application was not being filed on a half-baked idea.

In concluding his opinion, the Commissioner of Patents said:

> The party Hartog was the first to conceive and the first to reduce to practice, constructively, but even if the party Jardine had been first to conceive, his lack of diligence would prevent him from prevailing. It follows therefore that priority should be awarded to Hartog.

We agree with the views expressed by the Commissioner of Patents and his decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WALDHEIM

No. 2,168. Decided December 19, 1929

1. PATENTABILITY—WORK-WEB MAGAZINES.

Claims for a work-web magazine for feeding work webs to a typewriting machine *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Burnham C. Stickney and *Mr. L. H. Campbell* for Waldheim.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from the decision of the Commissioner of Patents affirming that of the Examiners in Chief, holding unpatentable all the claims of applicant, 13 in number.

Claim 11 is illustrative of the claims in issue and reads as follows:

> 11. A work-web-magazine for feeding work-webs to a typewriting machine, comprising a series of tiers of work-web containers mounted for rotation about a vertical axis and arranged so that the containers of any tier of the series may be brought into effective work-feeding position by rotation of the magazine, each container having an open front end, and the containers of each tier being arranged with their open front ends projecting progressively outwardly from top to bottom to prevent interference of an upper container with the work being fed from the lower container.

The references are: Smith, 1,380,746, June 7, 1921; Williams, 489,665, January 10, 1893; Williams, 315,688, April 14, 1885; Nauerth, 317,175, May 5, 1885.

While the claim above quoted refers in general terms to a typewriting machine the specific typewriting machine involved is a continuous billing typewriting machine and the claimed invention is for a revolving magazine for selectively feeding work webs to such a machine. A work web comprises several layers or plies, usually having printed forms. Carbon sheets are interleaved between the plies and are mounted on a carbon carriage so as to advance with the web while typing. When a different set of forms is to be typed it is necessary to remove the web temporarily from the typewriter and bring into use a second web with its carbon sheets.

Appellant's device is described in his specification as follows:

> For convenience in handling and interchanging a plurality of webs, this invention provides, in connection with a table on which the typewriting machine is mounted, a magazine comprising a plurality of tiers of containers, each container or compartment having positioned therein a web-pack and its attached carbon-holder (when the latter is not in use.) The magazine is revolubly mounted for movement about a vertical axis and the tiers are so arranged that any one of them may be brought into effective feeding position, said position being preferably directly to the rear of the machine, by rotating said magazine about its vertical axis. The tiers are so arranged that the maximum depth of containers may be utilized within the lateral dimensions of the magazine. When a tier has been so positioned, the web from any of the containers in said tier may be fed to the machine. Each container, when in effective feeding position, has an open end to permit the unobstructed withdrawal of the web from the pack in that container. To prevent interference of an upper container of a tier with the web from a lower container in that tier, the containers may be arranged with their open ends projecting progressively outwardly from top to bottom. When the web in use is to be replaced by a second web, it is withdrawn from the machine together with its carbon-holder and deposited in its container. The second web with its carbon-holder is then mounted on the machine, the magazine having previously been rotated if the container of the second web is in a different tier from the container of the first web.

In the Smith patent, two web-feeding drawers are shown, one above the other, the two drawers being in vertical register with the typewriting machine. The drawers are located in the stand supporting the typewriting machine. The patent states that "the number of webs may be increased if desired, and additional drawers provided." Appellant points out, however, that in the Smith device there would not be room for additional drawers between the top of the stand and the floor.

The patent to Williams, No. 489,665, discloses a printer's cabinet, designed to be used by a printer and to hold leads, rules, etc., in a convenient position whereby they may be reached by rotating the cabinet.

The patent to Williams, No. 315,668, shows a bag rack adapted to hold a number of paper bags of different sizes. The frame is formed of a plurality of uprights and shelves, and is pyramidal in shape. It also states that the rack may be set upon a pivot to facilitate the turning of the frame.

The patent to Nauerth discloses a revolving book-case to enable a person to have easy access to the books without moving from one side to the other.

The Board of Appeals, after describing appellant's device, and the devices disclosed in the references above mentioned, said:

> In view of these patents we see no invention in arranging the plurality of containers of Smith on the respective sides of the revolving cabinets of Nauerth or Williams.

The Commissioner, in affirming this decision, said:

> The question for decision in its simplest form appears to be whether it involved invention to substitute for the plurality of web containers shown in the Smith patent a plurality of containers mounted for rotation about a vertical axis, such as disclosed in the Williams patent.

Appellant contends that this is not a correct statement of the issue, and insists that the question for decision was whether the magazine for feeding work webs to a typewriting machine, particularly pointed out and distinctly claimed in the claims appealed, was an invention. We think appellant is technically correct in this contention, but it is clear to us that the Commissioner was of the opinion that a plurality of containers mounted for rotation about a vertical axis, such as disclosed in the Williams patent, substituted for the plurality of web containers shown in the Smith patent, would be the equivalent of appellant's device, and therefore, as stated by him, the question was whether such substitution involved invention. He therefore stated the final question after resolving a preliminary question adversely to appellant.

All of the tribunals below have held that the device here in question did not involve invention, and we are of the same opinion.

We may take judicial notice that the continuous billing typewriting machines are of comparatively recent origin. It is stated in appellant's brief that the continuous billing typewriter machine is peculiar to his assignee; that it developed its manufacture and commercial use; that it is also the assignee of the Smith patent, and that said patent originated because a want arose in the art to feed two webs to the continuous billing machine, and that when a further want arose for feeding more than two webs to the machine the assignee produced the claimed invention here in issue. We may accept all this as true, although the record does not disclose all of these facts, but accepting the statements in the brief, it would seem that when the want arose for feeding more than two webs to the machine, the way had already been indicated by the disclosures in prior patents how it could be done, and that it did not involve invention to substitute the plurality of containers set out in such disclosures for the plurality of webs shown in the Smith patent.

The case of *In re Smith*, 367 O. G. 3, 23 F(2d) 771, involved a question very similar to that here in issue. In that case Smith, the patentee in one of the references in this case, and whose assignee is stated in appellant's brief to be the same as his assignee, involved the patentability of a revolving web container for feeding of a plurality of webs to a typewriting machine. The principal reference in that case was the same as the principal reference in the case at bar, viz, Smith, Patent No. 1,380,746. The Court of Appeals of the District of Columbia affirmed the decision of the Patent Office, holding that the substitution of the revolving carrier for the sliding drawers of the prior patents did not rise to the dignity of invention. The court said:

> The reel type of carrier was old, and we are constrained to agree with the Patent Office that invention was not involved in adapting it to the device shown in applicant's prior patents.

We think there is no difference in principle between that case and the case at bar.

We find no reversible error in the decision of the Commissioner and it is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,014,002, J. L. Hogan, Apparatus for wireless signaling, D. C., S. D. N. Y., Doc. E 43/81, *J. L. Hogan* v. *J. Wanamaker*. Decree for plaintiff (notice Jan. 22, 1930).

1,016,897, C. Ryan, Nut lock; 1,275,478, same, Lock nut and bolt, filed Dec. 20, 1929, D. C., Minn. (3d Div.), Doc. E 1804, *C. Ryan* v. *U. S. Steel Products Co.* Same, filed Jan. 3, 1930, D. C., Minn. (3d Div.), Doc. 1812, *C. Ryan* v. *The Illinois Steel Co.*

1,082,933, W. D. Coolidge, Tungsten and method of making same for use as filaments of incandescent electric lamps, D. C., Del., Doc. E 561, *General Electric Co.* v. *The De Forest Radio Co. et al.* Claims 1 to 7, inclusive; 9 to 12, inclusive; 17 to 23, inclusive, held valid and infringed. Claims 14, 16, 24, 26, 27, and 28 held invalid Jan. 14, 1930.

1,089,405, W. S. Ferguson, Reenforced-concrete dock or pier, D. C., E. D. Mich. (S. Div.), Doc. 3040, *The Dock & Terminal Engineering Co. et al.* v. *Michigan Alkali Co.* Dismissed (notice Jan. 27, 1930).

1,102,152, P. Jones, Process of pumping oil wells, D. C., W. D. Okla. (Oklahoma City), Doc. E 870, *Jones-McLaughlin, Inc.*, v. *Amerada Petroleum Corp.* Patent held invalid Jan. 14, 1930.

1,173,079, E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron-discharge apparatus; 1,231,764, F. Lowenstein, Telephone relay; 1,251,377, A. E. Hull, Method of and means for obtaining constant direct-current potentials; 1,426,754, R. C. Mathes, Circuits for electron-discharge devices, C. C. A., 3d Cir., Doc. 4027, *Shamrock Mfg. Co.* v. *Radio Corp. of America et al.* Decree affirmed Jan. 23, 1930.

1,195,632. (See 1,173,079.)

1,212,840, F. J. Straub, Building block and method of making, filed Jan. 14, 1930, D. C., N. Y. (Utica), Doc. 1805, *Crozier-Straub, Inc., et al.*, v. *Gardiner Blocks, Inc., et al.* Same, filed Jan. 20, 1930, D. C., N. D. Ohio (E. Div.), Doc. 3260, *Crozier-Straub, Inc., et al.*, v. *Trumbull Cement Products Co.*

1,231,764. (See 1,173,079.) 1,251,377. (See 1,173,079.)

1,275,478. (See 1,016,897.)

1,277,750, J. A. Pearce, Flotation process and apparatus, filed Jan. 24, 1930, D. C., Colo. (Denver), Doc. 9178, *J. P. Ruth, jr.*, v. *Stearns-Roger Mfg. Co.*

1,321,940, P. C. Oscanyan, Score or bulletin board, D. C., S. D. N. Y., Doc. E 24/388, *Star Ball Player Co.* v. *Lowe's, Inc.* Dismissed Jan. 24, 1930.

1,360,256, E. Anderson, Can opener, appeal filed Jan. 20, 1930, C. C. A., 2d Cir., Doc. 10769, *Star Can Opener Co.* v. *The Turner & Seymour Mfg. Co. et al.*

1,426,754. (See 1,173,079.)

1,446,247, L. de Forest, Light-controlling means; 1,466,701, same, Method of and means for controlling electric currents by and in accordance with light variations; 1,482,119, same, Means for recording and reproducing sound; 1,489,314, same, Recording sound; 1,653,155, same, Talking-moving-picture equipment; 1,693,071, same, Sound-recording attachment for motion-picture cameras; 1,716,033, same, Method of producing talking-motion-picture film and apparatus therefor; 1,695,414, same, Talking-moving-picture machine; 1,473,976, E. E. Ries, Sound-recording method; 1,607,480, same, Method of reproducing photographic sound records, filed Jan. 17, 1930, D. C., S. D. N. Y., Doc. E 51/364, *B. B. Deitel* v. *G. B. Chrisholm et al.* Dismissed as to 1,446,247, 1,473,976, 1,482,119, 1,489,314, 1,653,155, 1,716,033, and 1,695,414, Jan. 8, 1930.

1,448,279, 1,579,392, Pridham & Jensen, Electrodynamic receiver, filed Jan. 22, 1930, D. C., N. D. Calif. (San Francisco), Doc. 2534–L, *The Magnavox Co.* v. *Hart & Reno et al.*

1,466,701. (See 1,446,247.) 1,473,976. (See 1,446,247.)

1,482,119. (See 1,446,247.) 1,489,314. (See 1,446,247.)

1,502,050, R. H. Moore, Ventilating means for the receivers of belt conveyers, C. C. A., 4th Cir., Doc. 2914, *R. H. Moore* v. *B. & O. Railroad Co.* Decree affirmed Jan. 18, 1930.

1,507,016, L. de Forest, Radio signaling system; 1,507,017, same, Wireless telegraph and telephone system, filed Jan. 17, 1930, D. C., Del., Doc. E 767, *Radio Corp. of America* v. *Universal Wireless Communication Co., Inc., et al.*

1,507,017. (See 1,507,016.)

1,517,928, J. B. Welch, Drying apparatus, D. C., S. D. Miss. (Biloxi), Doc. E 302, *Welch Dry Kiln Co., Inc.*, v. *Gilchrist-Fordney Co.* Patent held valid and infringed Dec. 31, 1929.

1,532,635, J. E. Osbun, Ceiling ventilator, D. C., S. D. Calif. (Los Angeles), Doc. E N–86–H, *J. E. Osbun* v. *United Building Specialty Co.* Dismissed Sept. 30, 1929.

1,547,764, H. W. Kuehl, Waste-valve mechanism, filed Jan. 4, 1930, D. C., S. D. Ill. (S. Div.), Doc. 1265, *Brass Products Co. et al.* v. *Mueller Co.*

1,579,392. (See 1,448,279.) 1,607,480. (See 1,446,247.)

1,610,570, C. P. Milburn, Knockdown and portable combination form and traveler for constructing inclined concrete arches, filed July 18, 1929, D. C., S. D. Calif. (Los Angeles), Doc. E P–120–H, *Bent Bros., Inc., et al.*, v. *H. W. Rohl.*

1,617,083, J. Price, Heat exchanger, filed Jan. 9, 1930, D. C., Del., Doc. E 766, *The Griscom Russell Co.* v. *Romarti Gasoline Co.*

1,622,463, C. L. Marcus, Vanity case, D. C., S. D. N. Y., Doc. E 44/83, *C. L. Marcus* v. *H. Rubenstein, Inc., et al.* Dismissed Jan. 24, 1930.

1,653,155. (See 1,446,247.)

1,689,981, G. A. Vaughn, Laterally-adjustable excavator-boom structure, D. C., W. D. Mich (Grand Rapids), Doc. 2246, *The Parsons Co.* v. *Austin Machinery Corp. et al.* Dismissed (notice Jan. 21, 1930).

1,693,071. (See 1,446,247.) 1,695,414. (See 1,446,247.)

1,716,033. (See 1,446,247.)

Re. 17,383, L. H. Englund, Cleaning composition with a fluorescent concentration indicator, D. C., Minn. (3d Div.), Doc. 1745, *Economics Laboratory, Inc.*, v. *Pittsburgh Soap & Chemical Co. et al.* Decree for plaintiff Jan. 21, 1930.

Des. 80,848, E. J. Johnson, Casing for a toaster, filed Jan. 24, 1930, D. C., N. D. Ohio (Utica), Doc. 1820, *Knapp-Monarch Co.* v. *Central Flatiron Mfg. Co. et al.*

Adjudicated Patents

(C. C. A. N. Y.) Dickson patent, No. 1,076,198 for vacuum brake, claims 2 and 6 *Held* valid and infringed; claims 1, 8, and 6 *Held* invalid. *Bragg-Kliesrath Corporation* v. *Farrell*, 36 F. (2d) 845.

(D. C. Cal.) Trumble patent, No. 1,269,134, for crude petroleum and natural-gas separator, *Held* not infringed. *Townsend* v. *Lorraine Corporation*, 36 F. (2d) 997.

(C. C. A. N. Y.) Root patent, No. 1,321,150, for controlling valve for vacuum-operated power means, *Held* not infringed. *Bragg-Kliesrath Corporation* v. *Farrell*, 36 F. (2d) 845.

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TRADE-MARKS

OFFICIAL GAZETTE, MARCH 25, 1930

[VOL. 392. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 286,863. BEARDMORE & COMPANY, Toronto, Ontario, Canada. Filed June 29, 1929.

FLEXOTAN

For Leather.
Claims use since July 2, 1928.

Ser. No. 288,978. PACATOME COMPANY, San Francisco, Calif. Filed Aug. 24, 1929.

Plastik-Pac

No claim is made to the word "Plastik" apart from the mark as shown in the drawing.
For Diatomaceous Silica Used as an Admixture for Concrete.
Claims use since Jan. 28, 1929.

Ser. No. 294,122. F. A. RUPERT COMPANY, INC., Gloversville, N. Y. Filed Dec. 27, 1929.



All the words appearing on the trade-mark except the words "Capeca" and "Abner Steele" apart from the mark are herewith disclaimed.
For Washable Leather.
Claims use since June 1, 1929.

Ser. No. 294,196. THE WESTERN SEED COMPANY, Denver, Colo. Filed Dec. 28, 1929.



All words on the drawing, with the exception of the words "Gold Seal" are disclaimed apart from the other features of the mark shown therein.
For Field, Garden, Flower, Timothy, Alfalfa Seeds, and Lawn-Grass Seeds.
Claims use since January, 1912.

Ser. No. 294,436. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Jan. 6, 1930.

QUAKER BLOCK

The exclusive use of the word "Block" is disclaimed except in connection with the mark as shown.
For Coal.
Claims use since Apr. 1, 1926.

CLASS 2

Receptacles

Ser. No. 280,713. KLAUER MANUFACTURING COMPANY, Dubuque, Iowa. Filed Mar. 14, 1929.



For Stock and Storage Tanks and Underground Garbage Receivers.
Claims use since January, 1906.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 284,743. GIOVANNI PERRONE, Genoa, Italy. Filed May 28, 1929.

ZAPOLAC

For Metal Polish.
Claims use since May 8, 1929.

Ser. No. 292,486. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Nov. 16, 1929.

BEAUTY BUBBLE

For Soap.
Claims use since Jan. 3, 1928.

CLASS 5

Adhesives

Ser. No. 295,366. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Jan. 30, 1930.

KODATAPE

For Adhesive Tape.
Claims use since Jan. 17, 1930.

Ser. No. 295,495. SIEGFRIED ROOZENDAAL, New York, N. Y. Filed Feb. 1, 1930.

IPAC

For Adhesive Patching Material (Used in the Mending or Patching of Worn or Torn Pieces in Fabric or Cloth).
Claims use since Aug. 27, 1927.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 276,460. ELSIE I. CONAN, doing business as Helene Crystal Laboratory, Venice, Los Angeles, Calif. Filed Dec. 8, 1928.



CRYSTAL

The portrait forming a feature of the mark is fanciful. The word "Crystal" is disclaimed apart from the mark as shown on the drawing.
For Skin Preparation Especially Designed for the Purpose of Peeling Skin in Beauty-Culture Work.
Claims use since Oct. 15, 1928.

Ser. No. 279,053. LEYDE & KIESWETTER, Milwaukee, Wis. Filed Feb. 8, 1929.



Leyde's Quick Relief

Raymond Leyde

The portrait shown in the drawing is that of Raymond Leyde, and the signature appearing in the drawing is that of Raymond Leyde, no claim being made to the words "Quick Relief" apart from the mark shown.
For Preparation for Treating Sore Throat, Tonsilitis, Pneumonia, Appendicitis, Mashed Fingers, Burns, Scalds, Headaches, Colds, Neuralgia, Lumbago, Inflammation of the Bowels, Asthma, and Bronchitis.
Claims use since Nov. 19, 1928.

Ser. No. 287,879. MAX LEWIS, doing business as Lewis Laboratories, Los Angeles, Calif. Filed July 30, 1929.

Femigiene
FEMININE HYGIENE

Applicant hereby waives and disclaims the words "Feminine" and "Hygiene" apart from the trade-mark as shown on the drawing.
For Vaginal Antiseptic Jelly.
Claims use since June 17, 1929.

Ser. No. 289,015. FEDERAL PHOSPHORUS COMPANY, Birmingham, Ala. Filed Aug. 26, 1929.

AROCLOR

For Chlorinated Aromatic Hydrocarbons and Their Derivatives, Including Chlorinated Diphenyl.
Claims use since Aug. 21, 1929.

Ser. No. 289,792. ROSCOE C. MENERAY, doing business as Radiator Seal Company, Council Bluffs, Iowa. Filed Sept. 14, 1929.



No claim being made to the words "Radiator Seal and Cleaner, Stops Leaks, No Repair No Pay" apart from the mark shown in the drawing.
For Sealing Solution Used in Repairing Leaks in Radiators.
Claims use since July 1, 1922.

Ser. No. 291,058. EDWARD J. KELLY, doing business as Hu-Kel Chemical Co., Washington, Pa. Filed Oct. 14, 1929.

HU-KEL
HK

For Preparation for Treating Pain, Burns, and Soreness.
Claims use since May, 1929

Ser. No. 291,093. STEVENS LUKE, doing business as Rose City Chemical Company and Stevens Luke Co., Thomasville, Ga. Filed Oct. 15, 1929.

LU-ORA

The linings shown on the drawing are used for shading purposes only.
For Preparation Used as a Mouth Wash, a Spray, Gargle, and Douche.
Claims use since Apr. 1, 1929.

Ser. No. 293,465. CHEMOSAN-UNION UND FRITZ-PEZOLDT A. G., Vienna, Austria. Filed Dec. 10, 1929.

NAUTISAN

For Medicaments in Solid and Liquid Form for Treating Vomiting.
Claims use since Feb. 23, 1927.

Ser. No. 293,466. CHEMOSAN-UNION UND FRITZ-PEZOLDT A. G., Vienna, Austria. Filed Dec. 10, 1929.

RHINOSTOP

For Medicaments in Solid and Liquid Form for Treating All Vasomotoric Diseases of the Mucous Membranes of the Nose and of the Ears.
Claims use since May 25, 1927.

Ser. No. 293,484. PHARMAZEUTISCHE INDUSTRIE A. G., Vienna, Austria. Filed Dec. 10, 1929.

VARICOSMON

For Medicinal Preparation in Solid and Liquid Form for the Unbloody Treatment of Varixes.
Claims use since Oct. 19, 1925.

Ser. No. 293,492. SWAMP & DIXIE LABORATORIES, INC., Fort Smith, Ark. Filed Dec. 10, 1929.

SWAMP

For Chill and Fever Tonic.
Claims use since 1899.

Ser. No. 293,713. THE CAREY SALT COMPANY, Hutchinson, Kans. Filed Dec. 16, 1929.

SAL
EL TORO
MARCA

No claim being made to the words "Sal" and "Marca" apart from the mark shown.
For Salt.
Claims use since May, 1929.

Ser. No. 293,881. LABORATOIRES DARRASSE, SOCIETE A RESPONSABILITE LIMITEE, Nanterre, France. Filed Dec. 19, 1929.

EUPNINE

For Solution of Iodine and Caffeine Used as a Heart Stimulant to Increase Intravascular Pressure, to Check Dyspnœa, and to Promote Diuresis.
Claims use since Aug. 20, 1924.

Ser. No. 293,945. DR. PAUL WANGEMANN, Berlin-Wilmersdorf, Germany. Filed Dec. 20, 1929.

Anticalcolum

For Medicinal Preparation for Gallstones.
Claims use since Oct. 12, 1927.

Ser. No. 293,951. BUNYAN B. BRANNAN, Roanoke, Ala. Filed Dec. 21, 1929.



B.C.P.

The photograph constituting a part of the mark is a pen and ink drawing of a portrait of the applicant, Bunyan B. Brannan.
For Preparation for the Treatment of Coughs and Colds.
Claims use since December, 1928.

Ser. No. 294,108. DUDLEY A. BURROWS, doing business as M. B. S. Prod. Co., Baltimore, Md. Filed Dec. 27, 1929.



For Salve Used in the Treatment of Boils, Bone Felons, Carbuncles, Sores, Ulcers, and Skin Diseases.
Claims use since Dec. 1, 1928.

Ser. No. 294,190. DORIS TOTTEN, doing business as Totten's Chemical Company, Chicago, Ill. Filed Dec. 28, 1929.

TOTTEN'S



The surname "Totten's" is disclaimed apart from the other features of the mark shown in the drawing.
For Chilblain Liniment.
Claims use since Sept. 1, 1929.

Ser. No. 294,191. DORIS TOTTEN, doing business as Totten's Chemical Company, Chicago, Ill. Filed Dec. 28, 1929.

TOTTEN'S



The surname "Totten's" is disclaimed apart from the other features of the mark shown in the drawing.
For Preparation for Treating Ulcerated Eyelids.
Claims use since Sept. 1, 1929.

Ser. No. 294,343. EDWARD C. DORNBUSCH, doing business as De Cue's Laboratories, Cleveland, Ohio. Filed Jan. 8, 1930.



For Ointment for the Treatment of Facial Eruptions, Ulcers, Hemorrhoids, Dry Catarrh, and Body Sores.
Claims use since Aug. 1, 1929.

Ser. No. 294,563. B. T. BABBITT, INC., New York, N. Y. Filed Jan. 9, 1930.



The drawing being lined to indicate the colors red and blue and no claim being made to the exclusive use of the word "Lye" apart from the mark as shown in the drawing.
For Lye.
Claims use since Feb. 1, 1912.

Ser. No. 294,567. B. T. BABBITT, INC., New York, N. Y. Filed Jan. 9, 1930.

OLD
HOMESTEAD
LYE

No claim being made to the exclusive use of the word "Lye" apart from the mark as shown in the drawing.
For Lye.
Claims use since 1926.

Ser. No. 294,571. B. T. BABBITT, INC., New York, N. Y Filed Jan. 9, 1930.

WASHINGTON



LYE

The portrait displayed in the drawing being that of George Washington and no claim being made to the exclusive use of the word "Lye" apart from the mark shown in the drawing.
For Lye.
Claims use since 1924.

Ser. No. 294,755. CHARLES FITZGERALD, doing business as Bovaid Company, New York, N. Y. Filed Jan. 14, 1930.



For Antiseptic Wash.
Claims use since Jan. 2, 1930.

Ser. No. 294,862. RENÉE THORNTON, New York, N. Y. Filed Jan. 16, 1930.



The linings appearing in the drawing are to indicate the color yellow or golden, an essential feature of the mark.

For Astringents, Astringent Cerates, Almond Meal, Bleach Creams, Cleansing Creams, Cold Creams, Complexion Creams, Face Creams, Pore Creams, Vanishing Creams, Brown Skin Face Powders, Cerates for Use as a Skin Cleanser and to Improve the Complexion, Complexion Powders, Face Powders, Talcum Powders, After-Shaving Lotions, Hand Lotions, Skin Lotions; Liquid Scalp Cleanser, for the Prevention of Dandruff and for Producing a Healthy Scarfskin upon the Scalp; Skin Tonics, Hair Oils, Muscle Oils, Shampoos, Hair Tonics, Bath Salts, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Powder and Rouge Compacts, Eyebrow and Eyelash Growers, Eyebrow Pencils, Lip Sticks; Rusmas, a Depilatory for the Removal of Superfluous Hair; Toilet Waters, Perfumes, and Solid Perfumes.

Claims use since Jan. 10, 1929.

Ser. No. 294,996. W. A. SMITH AND SON., Detroit, Mich. Filed Jan. 20, 1930.

Mother Nature's

OINTMENT

The word "Ointment" is disclaimed apart from the mark as shown on the drawing.

For an Ointment Adapted for Internal or External Use in the Treatment of Human Ailments Requiring Healing and Tissue Building, and Particularly in the Treatment of Sore Mouths, Sore Nipples, Burns, Sunburn, Scalds, Cuts, Bruises, Piles, Chapped Hands, Sore Eyes, Sore Noses, Sore Throats, Blistered or Sore Feet, Callouses, and Corns.

Claims use since June 8, 1929.

Ser. No. 295,104. WESTERN MEDICAL CLINIC, Denver, Colo. Filed Jan. 22, 1930.

909

For Medicinal Preparation for Blood Diseases.
Claims use since Jan. 1, 1926.

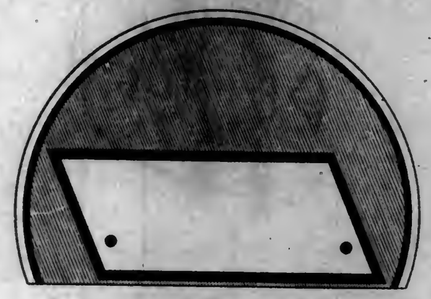
Ser. No. 295,119. DE MUSSET, INC., New York, N. Y. Filed Jan. 23, 1930.

Ze BREATH OF PARIS

For Perfumes, Face Powders, Toilet Waters, Face Creams, Massage Creams, Rouge, Lip Stick, Eyebrow Pencils, Skin Lotions, Sachets, Bath Salts, Lavender Water and Verbena Water, Talcum and Dusting Powder, Hair Tonics, Shampoos, Pomades, and Brilliantine.

Claims use since Jan. 2, 1930.

Ser. No. 295,398. STANDARD BRANDS INCORPORATED, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Filed Jan. 30, 1930.



The trade-mark claimed consists of the characteristic design shown in the drawing irrespective of the particular color in which this design is printed, and although blue is the color in which the characteristic trade-mark is ordinarily printed the lines shown in the drawing are not intended to be restrictively indicative of any particular color.

For Phosphate and Lactate Mixture Suitable for Use with Sodium Bicarbonate for the Same Purpose as Baking Powder.

Claims use since Dec. 26, 1929.

Ser. No. 295,425. LE-ROY W. EARL, doing business as Hi-Rise Baking Powder Company, Chicago, Ill. Filed Jan. 31, 1930.

HI-RISE

For Baking Powder.
Claims use since Jan. 21, 1930.

Ser. No. 295,583. MAXIMO TABOAS, New York, N. Y. Filed Feb. 4, 1930.

NERVIOSAN

For General Tonic.
Claims use since January, 1928.

Ser. No. 295,623. KILSEM MANUFACTURING COMPANY, Baltimore, Md. Filed Feb. 5, 1930.

"BUG-GO"

For Liquid Insecticide.
Claims use since Jan. 1, 1929.

Ser. No. 295,824. ROBERT M. BRAME, Jr., doing business as The Jake Co., North Wilkesboro, N. C. Filed Feb. 8, 1930.

JAKE

For Medical Preparation for Headache, Nervousness, Neuralgia, Toothache, Colds, Rheumatic and Female Pains.
Claims use since Sept. 1, 1928.

Ser. No. 295,838. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 10, 1930.

SEMESAN JR.

For Fungicide, Seed Disinfectant.
Claims use since Mar. 29, 1926.

Ser. No. 295,839. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 10, 1930.

SEMESAN BEL

For Fungicide, Seed Disinfectant.
Claims use since Mar. 29, 1926.

Ser. No. 295,842. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed Feb. 10, 1930.

SAVANOL

For Sulphonated Oil.
Claims use since Aug. 27, 1929.

Ser. No. 295,849. INTERNATIONAL GAS PRODUCTS, INC., Monroe, La. Filed Feb. 10, 1930.

DANDY

For Carbon Black to be Used for General Purposes.
Claims use since Dec. 30, 1929.

Ser. No. 295,850. INTERNATIONAL GAS PRODUCTS, INC., Monroe, La. Filed Feb. 10, 1930.

HI TONE

For Carbon Black to be Used for General Purposes.
Claims use since Dec. 30, 1929.

Ser. No. 295,936. THE DRUG PRODUCTS CO., INC., Long Island City, N. Y. Filed Feb. 12, 1930.

Taurophen

For Biliary Stimulant for Intestinal Toxemia and as a Gall-Bladder Stimulant.
Claims use since Mar. 25, 1914.

Ser. No. 295,941. CHAS. L. EVERWINE, Newark, N. J. Filed Feb. 12, 1930.

Carbo Vac

For Chemical Preparation for Eliminating Carbon in Motors or Engines.
Claims use since Nov. 1, 1929.

Ser. No. 295,945. GOLD BOND STERILIZING POWDER CO., INC., Fairhaven, Mass. Filed Feb. 12, 1930.

GOLD BOND

For Baby Powder.
Claims use since Jan. 15, 1908.

Ser. No. 295,949. LUCIEN LELONG, INC., Chicago, Ill. Filed Feb. 12, 1930.

SOUTH WIND

For Face Powder.
Claims use since Jan. 22, 1930.

Ser. No. 296,027. ALOIS ROB, Weil-Friedlingen, Germany. Filed Feb. 14, 1930.

STELACTIV

For Chemical Substances for Regenerating and Refining Iron and Steel.
Claims use since about March, 1929.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 287,429. PERCIVAL TASKER SANDS, Vancouver, British Columbia, Canada. Filed July 20, 1929.

NEVAFAIL

For Tobacconists' Supplies—Namely, Ash Trays, Cigarette Holders, and Pipes.
Claims use since May 2, 1929.

CLASS 11

Inks and Inking Materials

Ser. No. 295,381. MITTAG & VOLGER, INCORPORATED, Park Ridge, N. J. Filed Jan. 30, 1930.

Dure Multiplex

For Carbon Paper.
Claims use since October, 1919.

CLASS 12

Construction Materials

Ser. No. 241,949. WILLIAM MOORE, doing business as William Moore Company, Philadelphia, Pa. Filed Dec. 24, 1926.

KOMFORT ROOF SLATE

The words "Roof Slate" are disclaimed apart from the mark as shown. The lining in the drawing is for the color red.
For Roofing Materials—Namely, Shingles, Slates, and Tiles, and Slabs for Terraces, Garden Walks, Stepping-Stones, and Flooring.
Claims use since on or about Jan. 15, 1911.

Ser. No. 261,295. WOOD AND ENGLISH, LIMITED, Vancouver, British Columbia, Canada. Filed Feb. 6, 1928.



For Lumber Products—I. e., Dressed and Undressed Lumber, Flooring, Siding, Ship-Lap, Lath, Shingles, Joists or Studding, and Timbers.
Claims use since Nov. 28, 1927.

Ser. No. 285,077. WILLIAM GRUND, doing business as Detroit Caulking and Weatherproof Company, Detroit, Mich. Filed June 17, 1929.



The word "Superior" is disclaimed apart from the mark shown and also the representation of a "caulking gun" is disclaimed apart from the mark shown.
For Elastic Caulk for Caulking Wood and Steel Door and Window Frames, Terra-Cotta, Stone, Brick, and Masonry Joints, Glazing Skylights, Embedding and Sealing Cracked Glass, Embedding and Repairing Slate and Tile Roofs, and Used on Pipe Joints.
Claims use since Jan. 15, 1925.

Ser. No. 293,591. CLIFFORD A. PAYTON, doing business as Pieco Products Company, Philadelphia, Pa. Filed Dec. 12, 1929.

WIND-O-TITE

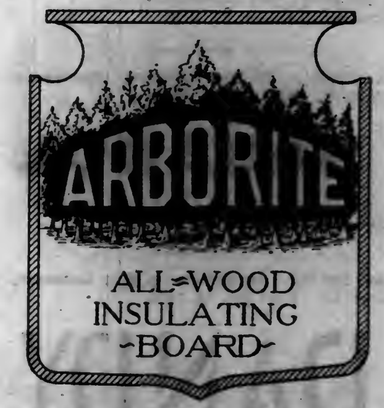
For Caulking Compounds (Gun and Knifing Grades).
Claims use since Oct. 1, 1928.

Ser. No. 294,329. THE WOOD-FIBRE BOARD CORPORATION, Brunswick, Me., and New York, N. Y. Filed Jan. 2, 1930.

ARBORITE

For Thermal Insulating Boards and Laths.
Claims use since Dec. 14, 1929.

Ser. No. 294,330. THE WOOD-FIBRE BOARD CORPORATION, Brunswick, Me., and New York, N. Y. Filed Jan. 2, 1930.



No claim is herein made to the words "All-Wood Insulating Board" apart from the mark as shown.
For Thermal Insulating Boards and Laths.
Claims use since about Dec. 14, 1929.

Ser. No. 294,508. THE STRUCTURAL SLATE CO., Pen Argyl, Pa. Filed Jan. 9, 1930.



Applicant disclaims the use of the words "Trade Mark, Roofing, Flagging, Flooring, Structural Slate, Pen Argyl, Pa." apart from the association as shown.
For Natural or Artificial Colored Slate Products—Namely, Stair Treads, Flooring, Roofing, Borders, Base and Caps for Columns, Wainscots, Copings, Hearths, Partitions, Stairways, Thresholds, Window Sills, Chimney Caps, Risers, Fireplace Facings, Steps, Pavings, Curbs, Tile; Natural or Artificially-Colored Slate for Use in the Construction of Garden Walks and Terraces.
Claims use since June 28, 1929.

Ser. No. 294,599. THE STRUCTURAL SLATE CO., Pen Argyl, Pa. Filed Jan. 9, 1930.

PENN-MONT

For Natural or Artificial Colored Slate Products—Namely, Stair Treads, Flooring, Roofing, Borders, Base and Caps for Columns, Wainscots, Copings, Hearths, Partitions, Stairways, Thresholds, Window Sills, Chimney Caps, Risers, Fireplace Facings, Steps, Pavings, Curbs, Tile; Natural or Artificially-Colored Slate for Use in the Construction of Garden Walks and Terraces.
Claims use since June 28, 1929.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 280,717. KLAUER MANUFACTURING COMPANY, Dubuque, Iowa. Filed Mar. 14, 1929.

K

For Gutter Hangers, Trough Hangers, Wire Strainers, Metal Washers, Conductor Hooks, Speaking Tubes, Well Tubing, Screen-Wire Cloth, Floor Fenders, Metal Pipe, Iron Centers for Clothesline Reels, Cistern Rings and Covers, Manhole Rings and Covers, Cast-Iron Inlets, and Pipe Hooks.
Claims use since January, 1870.

Ser. No. 286,748. ELJER COMPANY, Ford City, Pa. Filed July 8, 1929.

ELJER

For Plumbing Fixtures,—Namely, Fluid-Control Valves, Closets, Tanks, Urinals, Lavatories, Bidettes, Receptors, Baths, Showers, Fountains, Sinks, Laundry Trays, and Parts Thereof and Fittings Therefor.
Claims use since May 26, 1904.

Ser. No. 286,749. ELJER COMPANY, Ford City, Pa. Filed July 8, 1929.

The

ELJERETTE

For Plumbing Fixtures,—Namely, Fluid-Control Valves, Closets, Tanks, Urinals, Lavatories, Bidettes, Receptors, Baths, Showers, Fountains, Sinks, Laundry Trays, and Parts Thereof and Fittings Therefor.
Claims use since July 23, 1928.

Ser. No. 294,283. THE WIRE & STEEL PRODUCTS CO., INC., Brooklyn, N. Y. Filed Dec. 31, 1929.

"ROYAL"

For Metal Box Strapping, Steel Strapping, and Crimp Fastenings for Same.
Claims use since Mar. 6, 1919.

Ser. No. 295,046. PACIFIC STATES CAST IRON PIPE COMPANY, Provo, Utah. Filed Jan. 21, 1930.

FLEXPAN

For Metal Pipe and Pipe Fittings.
Claims use since Oct. 1, 1929.

CLASS 14.

Metals and Metal Castings and Forgings.

Ser. No. 280,712. KLAUER MANUFACTURING COMPANY, Dubuque, Iowa. Filed Mar. 14, 1929.



For Sheet Steel and Anvils.
Claims use since January, 1917.

Ser. No. 288,558. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed Aug. 15, 1929.



No claim is made to the word "Resist" apart from the mark shown. The lining in the drawing designates color, the vertical crosshatching indicating red and the horizontal crosshatching indicating blue, the lighter crosshatching indicating a lighter shade of blue.
For Ferrous Castings.
Claims use since Mar. 26, 1929.

Ser. No. 293,997. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 21, 1929.



For Babbitt Metal and Cemented Tungsten Carbide.
Claims use since 1923 on Babbitt metal; since December, 1928, on cemented tungsten carbide.

CLASS 15

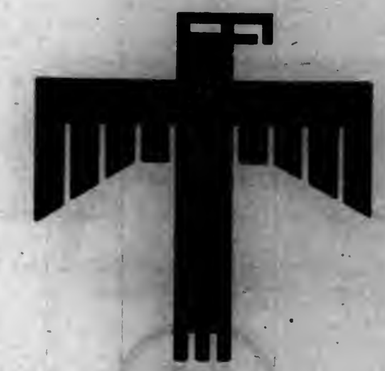
Oils and Greases

Ser. No. 288,468. THE DERBY OIL COMPANY, Wichita, Kans. Filed Aug. 13, 1929.



The word "Aeroplane" is hereby disclaimed apart from the mark as shown in the drawing.
For Motor Fuels—Namely, Gasoline and Gasoline Compounds.
Claims use since Jan. 1, 1917.

Ser. No. 293,389. UNITED STATES REFINING COMPANY, Los Angeles, Calif. Filed Dec. 7, 1929.



For Oils and Greases or Petroleum Products Consisting of Gasoline, Motor-Fuel Oils, Lubricating Oils, and Lubricating Greases.
Claims use since June, 1929.

CLASS 16

Paints and Painters' Materials

Ser. No. 284,549. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed May 23, 1929.



For the purpose of this registration only the exclusive use of the words "Standard Oil Co. of New York" is claimed only in association with the other features of the mark as shown.
For Substitute for Turpentine.
Claims use since Sept. 10, 1908.

Ser. No. 293,999. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 21, 1929.



For Mixed Paints, Varnishes, Prepared Shellac, Lacquer, and Thinner for Lacquer.
Claims use since 1918.

CLASS 17

Tobacco Products

Ser. No. 275,658. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C. Filed Nov. 22, 1928.



Applicant claims ownership by assignment of registered Trade-Mark No. 186,623, issued July 22, 1924. The lining used in the drawing is for indicating the colors red and blue.
For Cigarettes.
Claims use since Nov. 14, 1928.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 287,330. CHRYSLER CORPORATION, Detroit, Mich. Filed July 19, 1929.



For Automobiles and Their Structural Parts.
Claims use since Nov. 12, 1914.

Ser. No. 287,331. CHRYSLER CORPORATION, Detroit, Mich. Filed July 19, 1929.

DODGE BROTHERS

For Automobiles and Their Structural Parts.
Claims use since Nov. 12, 1914.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 280,715. KLAUER MANUFACTURING COMPANY, Dubuque, Iowa. Filed Mar. 14, 1929.

K

For Electric Welders, and Portable Electric-Lighting Plants for Emergency Work, Camps, and the Like, and Farm Lighting and Power Electric-Lighting Plants.
Claims use since January, 1916.

Ser. No. 291,113. MALCOME L. BURTON, Inman, S. C. Filed Oct. 16, 1929.

M. L. B.

For Electric Churns.
Claims use since March, 1929.

Ser. No. 293,081. THE UPSTARTER COMPANY, INC., Beaumont, Tex. Filed Nov. 29, 1929.

UPSTARTER

For Starters for Internal-Combustion Motors.
Claims use since Jan. 10, 1929.

Ser. No. 293,490. MANUEL S. SILVA, Decoto, Calif. Filed Dec. 10, 1929.



For Electric Signal Lights for Mounting on Vehicles as Direction Signals or for Fixed Placement Along Highways as Traffic Signals.
Claims use since Aug. 30, 1929.

Ser. No. 294,327. WEBSTER ELECTRIC COMPANY, Racine, Wis. Filed Jan. 2, 1930.



The vertical line shown upon the mark is for the purpose of shading only and for reproducing in the drawing the appearance of the mark as it is used.
For Audio Frequency Amplifiers Comprising Assembled Units for Amplifying Electric Signals, Audio Frequency Transformers, Choke Coils, Electric Pick-Up Tone Arms, Electric Pick-Up Voltage Controls, Electrical Sockets and Plugs, Electrical Phonograph Pick-Ups, Power Transformers, High-Voltage Ignition Transformers, and Energizing Transformers for Electric Signs.
Claims use since 1925.

Ser. No. 294,649. TEMME MANUFACTURING CO., Chicago, Ill. Filed Jan. 10, 1930.



For Electrically-Operated Signal Horn.
Claims use since on or about Nov. 1, 1929.

Ser. No. 294,737. PEOPLE'S OUTFITTING COMPANY, Detroit, Mich. Filed Jan. 18, 1930.

FALCON

For Radio Receiving Sets and Parts Thereof—Namely, Tuned Radio Frequency Units, Assembled Radio Frequency Amplifying Units, and Assembled Thermionic Detecting Units.
Claims use since Sept. 20, 1929.

Ser. No. 294,774. JOHNSONBURG RADIO CORPORATION, Johnsonburg, Pa. Filed Jan. 14, 1930.

JRC

For Radiotubes—Namely, Electron or Vacuum Tubes.
Claims use since Aug. 1, 1929.

Ser. No. 294,916. ELECTRODAIRE COMPANY, Detroit, Mich. Filed Jan. 18, 1930.

Elektra

For Storage-Type Automatic Electrical Water Heaters.
Claims use since Nov. 1, 1929.

Ser. No. 295,212. ELECTROTRIM, INC., Union City, Ind. Filed Jan. 25, 1930.

ELECTROTRIM

Apart from the mark as shown in the drawing no claim is made herein to the illustration of a conduit with its contained wires.
For Conduits for Electric Wires and Fittings for the Same.
Claims use since July 17, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 293,006. MAURICE M. GOLDBERG, New York, N. Y. Filed Nov. 30, 1929.

PLAY-A-HAND

For Bridge-Game Lessons, Problems, and Solutions.
Claims use since Aug. 1, 1929.

Ser. No. 293,742. MINIATURE GOLF COURSES OF AMERICA, INC., New York, N. Y., assignor to Tee-O-Matic Golf Company, Inc., a Corporation of New York. Filed Dec. 16, 1929.

TEE-O-MATIC

The word "Tee" is disclaimed apart from the other features of the mark as shown in the drawing.
For Automatic Golf Teeing Device.
Claims use since Nov. 1, 1929.

Ser. No. 294,536. EMMA LEORA KNIGHT, Baltimore, Md. Filed Jan. 8, 1930.

"UMAKE"

For Educational Amusement Device for Children.
Claims use since February, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 289,436. E. C. ATKINS AND COMPANY, Indianapolis, Ind. Filed Sept. 7, 1929. Under 10-year proviso.

PERFECTION

For Handsaw Handles, Handsaws, Crosscut Saws, Grass Hooks, Saw Tools for Sharpening and Shaping Saws, and Wood Scrapers.
Claims use since 1893.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 293,998. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 21, 1929.



For Pressure Gauges, Compasses, Temperature Indicators, Fare Boxes, Hydraulic Dynamometers and Parts Thereof, and Mercury Vapor Detectors and Parts Thereof, Vacuum Gauges, Thermostats, Demand Attachments for Gas Meters, Vibration Indicators.

Claims use on pressure gauges, compasses, temperature indicators, vacuum gauges, thermostats, demand attachments for gas meters, and vibration indicators since 1921; on fare boxes since 1922; on hydraulic dynamometers and parts thereof since May, 1929, and on mercury vapor detectors and parts thereof since 1926.

CLASS 27

Horological Instruments

Ser. No. 295,646. TAVANNES WATCH CO., S. A., Tavannes, Switzerland. Filed Feb. 5, 1930.

TAVANNES

For Clocks, Watches, and Parts Thereof.
Claims use since about 1890.

Ser. No. 295,735. HARRIS WATCH IMPORTING COMPANY, INC., New York, N. Y. Filed Feb. 7, 1930.

HARCO

For Time Recorders, Clocks, and Watches.
Claims use since Jan. 1, 1928.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 286,060. ARNO WRAZLOWSKY, doing business as Fashionlane Jewelry Co., Providence, R. I. Filed June 24, 1929.

FASHIONLANE

For Finger Rings, Earrings, Bracelets, Brooches, Necklaces, Shoulder Pins, Clasps, Belt Buckles, Shoe Buckles, Dress Buckles, and Hat Ornaments, All Constructed of or Partially of Precious Metal.
Claims use since Jan. 10, 1929.

Ser. No. 293,777. JAECKEL MFG. CO., INC., Providence, R. I. Filed Dec. 17, 1929.

J. M. C.

For Necklaces, Pendants, Bracelets, Connection Rings and Finger Rings, Earrings, and Brooches.
Claims use since Sept. 15, 1929.

Ser. No. 294,111. JOSEPH GRANAT, doing business as Granat Bros., San Francisco, Calif. Filed Dec. 27, 1929.

Love-Loop

For Finger Rings.
Claims use since Nov. 1, 1929.

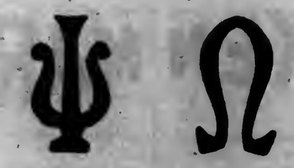
Ser. No. 294,112. JOSEPH GRANAT, doing business as Granat Bros., San Francisco, Calif. Filed Dec. 27, 1929.

Parisian Knot

For Finger Rings.
Claims use since about Dec. 2, 1929.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 294,441. PSI OMEGA, Pittsburgh, Pa. Filed Jan. 6, 1930.



For Pins, Badges, Watch Charms, and Bracelets, All Made of or Plated with Precious Metal.
Claims use since 1892.

Ser. No. 295,265. C. A. KIOSE CO., doing business as Virgin Diamond Syndicate, Kansas City, Mo. Filed Jan. 27, 1930.

VESTAL

For Diamonds.
Claims use since on or about Dec. 5, 1929.

Ser. No. 295,354. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Jan. 30, 1930.

DAWN O'LOVE

For Finger Rings and Mountings Therefor.
Claims use since Jan. 27, 1930.

Ser. No. 295,355. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Jan. 30, 1930.

HER HIGHNESS

For Finger Rings and Mountings Therefor.
Claims use since Jan. 27, 1930.

Ser. No. 295,357. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Jan. 30, 1930.

LOVE'S DREAM

For Finger Rings and Mountings Therefor.
Claims use since Jan. 27, 1930.

Ser. No. 295,372. GEMEX COMPANY, Newark, N. J. Filed Jan. 30, 1930.

RUGBY

For Watch Bracelets, Watch Straps, Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings, Belt Buckles, and Ear and Hair Ornaments, All Made of or Plated with Precious Metal.
Claims use since Dec. 30, 1929.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 295,720. THE AGOL CHEMICAL CO., INC., Washington, D. C. Filed Feb. 7, 1930.

PYONOL

For Toothbrushes.
Claims use since Nov. 1, 1929.

CLASS 31

Filters and Refrigerators

Ser. No. 296,053. ELECTROLUX SERVEL CORPORATION, New York, N. Y. Filed Feb. 15, 1930.

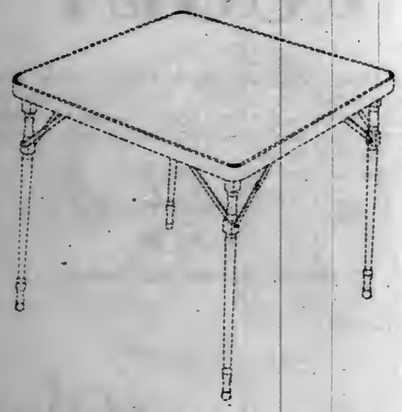


For Refrigerators, Refrigerator Parts, Automatic Refrigerators, Automatic Refrigerating Parts, and Refrigerating Systems.
Claims use since about January, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 290,374. NAPPANEE LUMBER & MANUFACTURING CO., Nappanee, Ind. Filed Sept. 28, 1929.



The trade-mark consists of a short arc-shaped red stripe painted or otherwise applied to the upper edge of the table top immediately at the corners thereof. The lining used in the drawing indicates the color red.

For Card Tables and Folding Tables.

Claims use since on or about Jan. 2, 1928.

Ser. No. 293,838. K. K. CRYSTAL COMPANY, INC., New York, N. Y. Filed Dec. 18, 1929.

The KK DURALIFE

For Metal Cabinets for Holding Watch Crystals.

Claims use since Apr. 5, 1929.

Ser. No. 294,181. ROLLODOR COMPANY, Los Angeles, Calif. Filed Dec. 28, 1929.

ROLLODOR

For Ash-Tray Stands.

Claims use since Aug. 15, 1929.

Ser. No. 295,043. THE NEW WATERFORD FURNITURE COMPANY, New Waterford, Ohio. Filed Jan. 21, 1930.

KEN MAR

For Upholstered Living-Room Furniture.

Claims use since Jan. 1, 1930.

CLASS 33

Glassware

Ser. No. 293,444. PACIFIC COAST GLASS COMPANY, San Francisco, Calif. Filed Dec. 9, 1929.

Temperite

For Glass Bottles, Glass Jars, Glass Tumblers, Glass Jugs, and Other Glass Containers for Beverages and Food Products of Various Kinds.

Claims use since on or about Feb. 2, 1928.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 292,095. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed Nov. 7, 1929.

ALOXITE

For Furnaces and Parts Thereof, Muffles and Parts Thereof, Retorts and Parts Thereof, Oil and Gas Burners and Parts Thereof, Lehrs and Parts Thereof, Hearths and Parts Thereof, Kilns and Parts Thereof, Ovens and Parts Thereof, Recuperators and Parts Thereof, Regenerators and Parts Thereof, Air and Gas Heaters and Parts Thereof, Combustion Chambers and Parts Thereof, Furnace Arches, Furnace Roofs, Furnace Lids, Furnace-Roof-Section Shapes, Furnace-Lid-Section Shapes, Section Shapes for Combustion Chambers, Blocks of a Shape or Form to Provide for Forming Combustion Ports, Furnace Tuyères, Recuperator Tubes, Recuperator Blocks, Regenerator Blocks, Refractory Cylinders, Refractory-Cylinder Sections, Saggers, Kiln-Car Tops, Industrial Crucibles, Refractory Pots, Rabbles of a Refractory Material, Refractory Tubes for Use in Furnaces, Pyrometer Protection Tubes, Furnace Linings, Furnace-Lining Blocks, Kiln-Lining Blocks, Cupola Blocks, Gas-Generator Blocks, Air-Cooled Furnace-Lining Blocks, Suspended Furnace-Arch Blocks, Hearth-Support Blocks, Combustion Tubes, Burner Blocks, Baffle Blocks; Furnace-Wall Veneer Blocks—i. e., Facing Blocks Which are Keyed to, Interlocked with, or Otherwise Supported at the Face of the Wall; Furnace-Arch Veneer Blocks—i. e., Facing Blocks Which are Keyed or Interlocked or Otherwise Secured to the Face of a Brick or Other Arch to be Protected; Muffle-Section Shapes, Retort-Section Shapes, and Means for Surrounding or Supporting Ware in a Kiln and Generally Known as Kiln Furniture.

Claims use since June, 1929.

Ser. No. 294,007. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed Dec. 23, 1929.

LIBERTY

For Gas, Oil, and Vapor Burning Water Heaters; Hot-Water Heating Systems, Storage Automatic Water Heaters, Instantaneous Water Heaters, Indirect Water Heaters, Bath-Water Heaters, Barbers' Water Heaters, Circulating Tank Water Heaters, Coil Water Heaters, Internal-Fired Water Heaters, Side-Arm Water Heaters; Space Heaters—Namely, Radiant Heaters and Convection Heaters; Central House-Heating Units—Namely, Furnaces, Water Heaters, Steam and Hot-Water Boilers; Incinerators, Garage Heaters, Clothes Dryers of the Convection Type, Circulating Elements and Coils for Boilers and Water Heaters; Gas, Oil, and Vapor Burners; Pilot Burners, Safety Pilots, Range Tanks, Hot-Water Storage Tanks, Down-Draft Diverters.

Claims use since Oct. 10, 1929.

Ser. No. 294,008. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio. Filed Dec. 23, 1929.

SERV-ALL

For Gas, Oil, and Vapor Burning Water Heaters; Hot-Water Heating Systems, Storage Automatic Water Heaters, Instantaneous Water Heaters, Indirect Water Heaters, Bath-Water Heaters, Barbers' Water Heaters, Circulating Tank Water Heaters, Coil Water Heaters, Internal-Fired Water Heaters, Side-Arm Water Heaters; Space Heaters—Namely, Radiant Heaters and Convection Heaters; Central House-Heating Units—Namely, Furnaces, Water Heaters, Steam and Hot-Water Boilers; Incinerators, Garage Heaters, Clothes Dryers of the Convection Type, Circulating Elements and Coils for Boilers and Water Heaters; Gas, Oil, and Vapor Burners; Pilot Burners, Safety Pilots, Range Tanks, Hot-Water Storage Tanks, Down-Draft Diverters.

Claims use since Dec. 8, 1929.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 295,164. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

BLUE EDGE

For Belting Made of Rubber and Fabric.

Claims use since February, 1928.

Ser. No. 295,167. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

KARIMOR

For Hose and Belting Made of Rubber and Fabric.

Claims use since March, 1919.

Ser. No. 295,170. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

ORIOLE

For Packing Made of Rubber and Used for Rendering Joints of Machinery and Containers Liquid and Gas Tight.

Claims use since June, 1916.

Ser. No. 295,173. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

SENECA

For Rubber and Fabric Belting.

Claims use since June, 1910.

Ser. No. 295,175. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

White Seal

For Hose, Belting and Packing All Made of Rubber and Fabric, the Packing Being Used in Joints of Machinery and Containers to Render Such Joints Liquid or Gas Tight.

Claims use since July, 1916.

Ser. No. 295,176. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

CONSERVO

For Hose and Belting Made of Rubber and Fabric.

Claims use since March, 1919.

Ser. No. 295,393. S. M. SUPPLIES CO., Boston, Mass. Filed Jan. 30, 1930.

S.M.S.CO. BOSTON, MASS.

No claim being made to the words "Boston, Mass."

For Leather Belting.

Claims use since July 1, 1929.

CLASS 36

Musical Instruments and Supplies

Ser. No. 291,589. STERCHI BROS. STORES, INC., Knoxville, Tenn. Filed Oct. 25, 1929.

Dixiephonic

For Portable and Cabinet Phonographs.
Claims use since Jan. 1, 1924.

Ser. No. 294,176. PLAZA MUSIC COMPANY, New York, N. Y. Filed Dec. 28, 1929.

FILM-TONE

For Phonograph Apparatus for Recording and Reproducing Sounds—Namely, Sound-Recording Machines and Reproducing Phonographs, Multiple-Record-Playing Phonographs, Parts for Such Phonographs, Sound-Recording Machines, and Multiple-Record-Playing Phonographs; Also the Following Accessories Therefor—Namely, Needles, Mechanical Phonograph Motors, Sound Reproducers, Sound Recorders, Diaphragms, Needle Cups, Horns, and Tone Arms; Phonograph Records, Both Recording and Reproducing; Envelopes and Albums.
Claims use since about Dec. 1, 1929.

Ser. No. 295,122. GRETSCH & BRENNER, INC., New York, N. Y. Filed Jan. 23, 1930.

FB

Ambassador

For Musical Instruments—Namely, Accordians.
Claims use since Aug. 31, 1929.

CLASS 37

Paper and Stationery

Ser. No. 267,991. PEN-O-PENCIL COMPANY, New York, N. Y. Filed June 13, 1928.

TWO IN ONE

For Pens, Pencils, and Combination Pens and Pencils.
Claims use since January, 1924.

Ser. No. 287,183. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed July 16, 1929.



For Writing Paper, Mailing and Correspondence Envelopes, Wrapping Paper, Tissue Paper, Blotting Paper, and Pasteboard Dyed with Fast Colors.
Claims use since about July, 1928.

Ser. No. 288,968. MACK-ELLIOTT PAPER COMPANY, St. Louis, Mo. Filed Aug. 24, 1929.



For Bond, Ledger, and Writing Paper.
Claims use since Mar. 1, 1929.

Ser. No. 290,736. AMERICAN TISSUE MILLS, Holyoke, Mass. Filed Oct. 7, 1929.



The picture shown on the specimens and drawing is not that of any living person.
For Waxed Wrapping Paper.
Claims use since about Apr. 1, 1929.

Ser. No. 294,705. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Jan. 13, 1930.

HINGEFOLD

For Mineral-Coated Paper Suitable for Printing.
Claims use since Dec. 27, 1929.

Ser. No. 294,706. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Jan. 13, 1930.

WHITE SATIN *Enamel*

No claim is made for the words "White Satin Enamel" except as shown in the accompanying drawing.
For Mineral-Coated Paper Suitable for Printing.
Claims use since Dec. 27, 1929.

Ser. No. 294,708. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Jan. 13, 1930.

SATIN PROOF *Enamel*

No claim is made for the words "Satin Proof Enamel" except as shown in the accompanying drawing.
For Mineral-Coated Paper Suitable for Printing.
Claims use since Dec. 24, 1929.

Ser. No. 294,709. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Jan. 13, 1930.

KOATINE

For Mineral-Coated Paper Suitable for Printing.
Claims use since Dec. 21, 1929.

Ser. No. 294,710. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Jan. 13, 1930.

MIAMI
Coated Blanks

No claim is made for the words "Miami Coated Blanks" except as shown in the accompanying drawing.
For Mineral-Coated Paper Suitable for Printing.
Claims use since Dec. 20, 1929.

Ser. No. 294,988. NATIONAL PUBLISHING CO., Philadelphia, Pa. Filed Jan. 20, 1930.

Lookies

For Small Albums for Use in Mounting Amateur Photographs.
Claims use since Nov. 29, 1929.

Ser. No. 295,282. PERKINS-GOODWIN COMPANY, New York, N. Y. Filed Jan. 25, 1930.

PAPER

P. G. CO.

No claim is made for the word "Paper" except when used in conjunction with the mark as shown in the drawing.
For Bond and Writing Paper.
Claims use since Sept. 15, 1929.

Ser. No. 295,395. S. M. SUPPLIES CO., Boston, Mass. Filed Jan. 30, 1930.



No claim being made to the words "Boston, Mass." appearing on the drawing.

For Cut-Out Paper Being Stiff Paper Laid Over a Plurality of Thicknesses of Fabric or Leather in the Operation of Cutting Such Material Into Predetermined Shapes.

Claims use since July 1, 1929.

Ser. No. 295,461. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Feb. 1, 1930.

HY-PLANE

For Mineral Coated Paper Suitable for Printing.

Claims use since Jan. 3, 1930.

Ser. No. 295,462. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Feb. 1, 1930.

LITHOPRINT

For Mineral Coated Paper Suitable for Printing.

Claims use since Dec. 18, 1929.

Ser. No. 295,560. CALVIN B. GRAY, Wilmington, Del. Filed Feb. 4, 1930.

Secretette

For Desk Reminders Consisting of a Calendar and Memoranda Sheets in a Binder.

Claims use since Oct. 18, 1929.

CLASS 38

Prints and Publications

Ser. No. 270,433. J. FRANK MEYER, doing business as Exhibit Supply Co., Chicago, Ill. Filed Aug. 1, 1928.

EXHIBIT

For Picture Post Cards, Picture Cards for Vending Machines and Cards for Vending Machines.

Claims use since July 27, 1928.

Ser. No. 291,166. ELIOT KERN, doing business as Passing Show Publishing Company, New York, N. Y. Filed Oct. 17, 1929.

The PASSING SHOW OF TODAY

For Periodical.

Claims use since on or about Sept. 17, 1929.

Ser. No. 292,208. PAUL S. HERVEY, Des Moines, Iowa. Filed Nov. 9, 1929.

Aldine TRADE MARK

The word "Trade-Mark" is disclaimed apart from the mark shown.

For Printed Cards, Printed Leaflets, Folders, and Booklets, Sold to the Trade as Such.

Claims use since May 15, 1925.

Ser. No. 292,543. EDWARD M. MOORE, Warrenville, Ill. Filed Nov. 18, 1929.



For Books, Bookplates, Pamphlets, Broadsides, Periodicals, Booklets, Dodgers, Circulars, Cards, Tickets, Announcements, Programs, and Posters, Sold to the Trade as Such, Made by Printing, Engraving, Etc.

Claims use since May 1, 1928.

Ser. No. 292,985. DAILY GRAPHIC, INC., New York, N. Y. Filed Nov. 27, 1929.

DANNY—

For Series of Cartoons or Comic Strips in a Daily Newspaper.

Claims use since Mar. 28, 1928.

Ser. No. 294,484. QUALITY PUBLICATIONS, INC., New York, N. Y. Filed Jan. 7, 1930.

POPULAR BIOGRAPHY

For Periodicals.

Claims use since Oct. 15, 1929.

Ser. No. 294,485. QUALITY PUBLICATIONS, INC., New York, N. Y. Filed Jan. 7, 1930.

The Thinker

For Periodicals.

Claims use since Oct. 15, 1929.

Ser. No. 294,925. MCGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y. Filed Jan. 18, 1930.

ENGINEERING AND Mining World

For Magazine Published Monthly.

Claims use since Jan. 2, 1930.

Ser. No. 294,979. KARSTEN STATISTICAL LABORATORY, INC., New Haven, Conn. Filed Jan. 20, 1930.

COMPAROGRAPH

For Statistical Charts.

Claims use since June 15, 1929.

Ser. No. 295,508. DELL PUBLISHING COMPANY, New York, N. Y. Filed Feb. 3, 1930.

SCOTLAND YARD

For Bimonthly Publication.

Claims use since Jan. 15, 1930.

Ser. No. 295,638. PUBLISHERS' FISCAL CORPORATION, New York, N. Y. Filed Feb. 5, 1930.

DETECTIVE THRILLERS

For Periodical.

Claims use since Dec. 6, 1929.

CLASS 39

Clothing

Ser. No. 278,021. ABRAHAM & STRAUS, INC., New York, N. Y. Filed Jan. 16, 1929.

Brookmore

For Men's Hats.

Claims use since Jan. 2, 1929.

Ser. No. 282,350. HERDT AND CHARTON INCORPORATED, Montreal, Quebec, Canada. Filed Apr. 13, 1929.

TRIOMPHE

TRADE MARK

Disclaimer is hereby entered to the exclusive use of the word "Trade Mark" apart from the mark as shown in the drawing.

For Dress Shirts, Negligee and Work Shirts Made of Knitted Wool, Silk, Silk and Wool, and Neckties.

Claims use since Jan. 1, 1928.

Ser. No. 288,581. ALLIED CLOTHIERS, INC., Chicago, Ill. Filed Aug. 16, 1929.

ALLIED KRAFTWEAR

For Men's Suits, Overcoats, Dress Shirts, Knitted and Textile Underwear, and Neckties; Women's and Children's Knitted and Textile Underwear; Hosiery for Men, Women, and Children; and Men's and Boys' Hats and Caps.

Claims use since June 15, 1929.

Ser. No. 288,729. FRED SIEMEN, doing business as Walco Garment Co., Los Angeles, Calif. Filed Aug. 19, 1929.

SUNNY GIRL

For Pajamas, Shorts for Underwear for Men, Shorts for Underwear for Women, Shorts for Underwear for Children, Shorts for Outer Wear for Children, Brassières, Beach Pajamas; Coats for Men, Women, and Children; Wash Coats, Aprons, Nurses' Uniforms, Beauty-Parlor Uniforms, Slips, Gymnasium Suits, and Capes.

Claims use since May 15, 1929.

Ser. No. 291,724. GOTHAM SILK HOSIERY COMPANY, INC., New York, N. Y. Filed Oct. 29, 1929.

SUNPLEXION

For Hosiery.

Claims use since Oct. 15, 1929.

Ser. No. 294,231. CHAS. L. MILLER & SON, INC., New York, N. Y. Filed Dec. 30, 1929.

Kelty

For Ladies' and Misses' Sport Coats.

Claims use since about Oct. 1, 1929.

Ser. No. 294,338. BULLOCK'S, INC., Los Angeles, Calif. Filed Jan. 3, 1930.

BULLOCK'S SVELTOSE LOS ANGELES

The geographical term "Los Angeles" is hereby disclaimed apart from the mark as shown on the drawing.

For Women's and Children's Hosiery.

Claims use since Sept. 15, 1929.

Ser. No. 294,642. LEVEL HAT CO., INC., South Norwalk, Conn. Filed Jan. 10, 1930.

MELLO-RAY

For Men's and Boys' Hats and Caps.

Claims use since Nov. 25, 1929.

Ser. No. 294,972. HERBERT W. HANAN, doing business as Hanan & Son, Brooklyn, N. Y. Filed Jan. 20, 1930.

TOWN-EASE

For Leather, Cloth, and Rubber Boots, Shoes, and Slippers.

Claims use since Dec. 3, 1929.

Ser. No. 295,052. REGENT WAIST & DRESS CO., INC., New York, N. Y. Filed Jan. 21, 1930.

ADJUST-O-DRESS

No claim is made to the word "Dress" apart from the mark shown on the drawing.

For Women's and Misses' Dresses.

Claims use since about Jan. 4, 1930.

Ser. No. 295,064. JOSEPH ADELSON & SONS, New York, N. Y. Filed Jan. 22, 1930.

Crepe-Peer

The word "Crepe" is disclaimed apart from the mark shown in the drawing.

For Ladies' Underwear of Silk, Rayon, and a Mixture of Rayon and Silk.

Claims use since Dec. 15, 1929.

Ser. No. 295,112. S. AUGSTEIN & CO., New York, N. Y. Filed Jan. 23, 1930.



For Sweaters for Children.

Claims use since Dec. 19, 1929.

Ser. No. 295,209. JAMES M. DALY, Lynn, Mass. Filed Jan. 25, 1930.

GOLDEN RULE

ARCH PROCESS

For Men's, Women's, and Children's Boots, Shoes, and Slippers Made Wholly or in Part of Leather, Canvas, or Textile Material.

Claims use since Jan. 7, 1930.

Ser. No. 295,211. DOLGEVILLE SLIPPER COMPANY, INC., Dolgeville, N. Y. Filed Jan. 25, 1930.



No claim is made to the exclusive use of the term "Dolgeville, N. Y."

For Slippers Composed of Satin, Felt, Leather, Printed Duck, or Like Material or Combinations Thereof.

Claims use since Nov. 4, 1929.

Ser. No. 295,296. DUNN & MCCARTHY, INC., Auburn, N. Y. Filed Jan. 28, 1930.

FASHION WELDS

No claim is made to the exclusive right to use the word "Fashion" apart from the mark shown.

For Leather Shoes.

Claims use since Jan. 20, 1930.

Ser. No. 295,481. VIOLA F. KONCEN, St. Louis, Mo. Filed Feb. 1, 1930.

Va-bien

For Ladies' Slips and Suspenders Therefor.

Claims use since Jan. 15, 1930.

Ser. No. 295,634. NU-CRAFT HOSIERY MILLS, INC., Mohnton, Pa. Filed Feb. 5, 1930.

Tru-Craft

For Hosiery.

Claims use since Aug. 1, 1928.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 291,881. S. H. KRESS & CO., New York, N. Y. Filed Nov. 1, 1929.

Dixie Belle

For Plain Pins, Hairpins, and Safety Pins Made of Steel, Aluminite, and Other Nonprecious Metals.

Claims use since Oct. 1, 1929.

Ser. No. 291,883. S. H. KRESS & Co., New York, N. Y. Filed Nov. 1, 1929.

Priscilla

For Plain Pins, Hairpins, and Safety Pins Made of Steel, Aluminite, and Other Nonprecious Metals.
Claims use since Oct. 1, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 289,178. BETHLEHEM TEXTILES COMPANY, Bethlehem, Pa. Filed Aug. 30, 1929.

VELVEEN

For Soft-Finished Knitted and Woven Fabrics of Silk and Rayon, Cotton, or Other Yarns.
Claims use since May 14, 1929.

Ser. No. 294,745. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y. Filed Jan. 13, 1930.

BAL MASQUE

For Silk Crepes in the Piece,
Claims use since Dec. 17, 1929.

Ser. No. 295,957. SOCIETE A RESPONSABILITE LIMITEE RODIER, Paris, France. Filed Feb. 12, 1930.

SINELLIC

For Piece Goods of Wool, Cotton, and Silk and Mixtures of the Same.
Claims use since Oct. 10, 1929.

Ser. No. 296,051. DUPLAN SILK CORPORATION, New York, N. Y. Filed Feb. 15, 1930.

COLORAMA

For Piece Goods of Silk and Rayon and Mixtures Thereof.
Claims use since Feb. 6, 1930.

CLASS 43

Thread and Yarn

Ser. No. 289,170. AMERICAN MANUFACTURING COMPANY, Brooklyn, N. Y. Filed Aug. 30, 1929.

AMITE

For Artificial Wool—Namely, Thread and Yarn.
Claims use since June 4, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 295,312. WOODWARD & LOTHROP, Washington, D. C. Filed Jan. 28, 1930.

WOODTHROP

For Sanitary Napkins.
Claims use since Dec. 23, 1929.

Ser. No. 295,337. WILLIAM C. KOCH, doing business as The Wm. C. Koch Co., St. Paul, Minn. Filed Jan. 29, 1930.

ALNITE

For Medicinal Vaporizers.
Claims use since Feb. 1, 1928.

Ser. No. 295,763. SAN-NAP-PAK MFG. CO., INC., New York, N. Y. Filed Feb. 7, 1930.

LILIANAPS

For Absorbent Cotton, Absorbent Gauze, and Sanitary Napkins.
Claims use since Oct. 1, 1929.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 295,135. MORRIS RICHTER, doing business as Hyrum Syrup Company, Philadelphia, Pa. Filed Jan. 23, 1930.

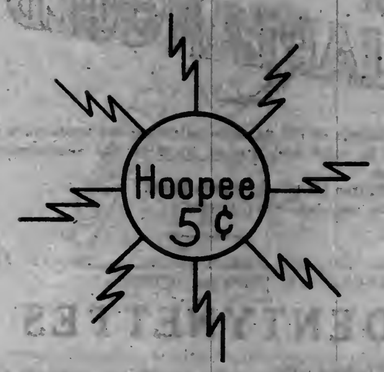
HYRUM

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Including Fountain Syrups.
Claims use since Oct. 15, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 286,898. HAROLD M. PRESTON, Binghamton, N. Y. Filed July 10, 1929.



No claim being made to the exclusive use of "5¢" apart from the mark shown.
For Candy.
Claims use since May 1, 1929.

Ser. No. 288,350. NEW ENGLAND FISH COMPANY, Seattle, Wash. Filed Aug. 9, 1929.

WHIZZ

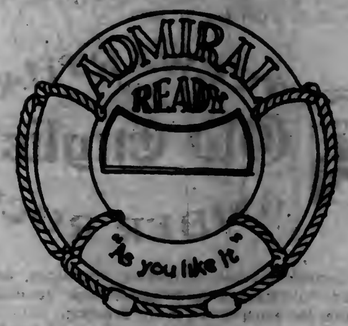
For Canned Salmon.
Claims use since December, 1928.

Ser. No. 288,351. NEW ENGLAND FISH COMPANY, Seattle, Wash. Filed Aug. 9, 1929.

SPUR

For Canned Salmon.
Claims use since August, 1928.

Ser. No. 288,369. ADMIRAL READY COFFEE REFINING CORPORATION, New York, N. Y. Filed Aug. 10, 1929.



For Coffee.
Claims use since July 28, 1929.

Ser. No. 290,810. BERHALTER'S HEALTH FOOD FACTORY, Chicago, Ill. Filed Oct. 9, 1929.

FIGRAIN

For Coffee Substitute.
Claims use since June 1, 1929.

Ser. No. 291,742. SOUTHERN FRUIT DISTRIBUTORS, INC., Orlando, Fla. Filed Oct. 29, 1929.



For Fresh Citrus Fruits and Vegetables.
Claims use since November, 1906.

Ser. No. 291,980. JOHN HANSEN & SONS, Oakland, Calif. Filed Nov. 4, 1929.



The descriptive words "Good Coffee" are hereby disclaimed apart from the mark as shown on the drawing.
For Coffee.
Claims use since Apr. 1, 1929.

Ser. No. 292,534. EDWARD F. KEMP, Somerville, Mass. Filed Nov. 18, 1929.

SIGNATURE

For All Kinds of Candies and Bonbons, Also All Kinds of Roasted and Salted Nuts and Nuts in Their Natural State, Shelled and Unshelled; Nut Candies, and Nut Confections.
Claims use since Nov. 11, 1929.

Ser. No. 293,337. MOTHER'S FAVORITE COOKIE COMPANY, Glendale, Calif. Filed Dec. 6, 1929.

MOTHER'S Favorite COOKIES

No claim is made to the word "Cookies" apart from the mark shown in the drawing.
For Cookies and Macaroons.
Claims use since 1916.

Ser. No. 293,619. ELMER O. EMERY, doing business as Sally Lynn Kitchen, Washington, D. C. Filed Dec. 13, 1929.



Sally Lynn

No claim is made to the exclusive use of the words "Sally Lynn" forming a part of the mark. The picture shown is fanciful.
For Cakes and Pies.
Claims use since August, 1926.

Ser. No. 294,405. SOUTHERN-PROPERTIES, INC., doing business as Garland Creamery, Dallas, Tex. Filed Jan. 4, 1930.

GARLAN GOLD

The letters of the name constituting the trade-mark are yellow in color and are so lined in the accompanying drawing.
For Butter Made with Cow's Milk.
Claims use since Sept. 1, 1927.

Ser. No. 294,411. AMERICAN CHICLE COMPANY, Long Island City, N. Y. Filed Jan. 6, 1930.

DENTYNETTES

For Chewing Gum.
Claims use since Dec. 17, 1929.

Ser. No. 294,556. ALITAK FISH COMPANY, Bellingham, Wash., and Kodia Island, Alaska. Filed Jan. 9, 1930.

SUNNY BAY

For Canned Salmon.
Claims use since Jan. 1, 1921.

Ser. No. 294,581. GREAT FALLS MEAT COMPANY, Great Falls, Mont. Filed Jan. 9, 1930.

MONTANA LEAF BRAND

The words "Montana Leaf Brand" do not form a part of the registration sought apart from the mark shown in the drawing.
For Lard.
Claims use since 1914.

Ser. No. 295,272. OLD ENGLISH CANDY COMPANY, INC., Dover, N. J. Filed Jan. 27, 1930.



TREWARTHA'S Old English AMBER ROCK

The portrait is that of Samuel Trewartha, deceased. The words "Old English" and "Amber Rock" are disclaimed apart from the mark shown in the drawing.
For Candy and Peppermint Drops.
Claims use since Dec. 1, 1922.

Ser. No. 295,285. O. E. WENTWORTH & Co., Baltimore, Md. Filed Jan. 27, 1930.

TRIANGLE BRAND

HONESTY QUALITY T SERVICE

Applicant disclaims the right to the exclusive use of the words "Honesty Quality Service" and "Brand" apart from the mark as a whole.
For Raw Oysters.
Claims use since Aug. 15 1924.

Ser. No. 295,374. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 30, 1930.

CON-I-SUR

For Cooked Meats, and Specifically Canned Tongue.
Claims use since Jan. 20, 1930.

Ser. No. 295,375. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y. Filed Jan. 30, 1930.



For Cooked Meats, Specifically Canned Corned Beef.
Claims use since Jan. 20, 1930.

Ser. No. 295,471. DOUGHNUT MACHINE CORPORATION, New York, N. Y. Filed Feb. 1, 1930.

MAYFLOWER

For Doughnuts, Crullers, and Fried Cakes.
Claims use since Jan. 15, 1930.

Ser. No. 295,706. WHITE-STOKES CO. INC., Chicago, Ill. Filed Feb. 6, 1930.

Whisto LOLS

For Chocolate Covering Prepared for Ice Cream.
Claims use since Oct. 15, 1929.

Ser. No. 295,707. F. A. WOOD & Co., Atlantic City, N. J. Filed Feb. 6, 1930.



No claim is made to the words "Oatmeal Cookies" apart from the other features of the mark. The picture of the girl is fanciful.
For Cookies.
Claims use since Oct. 28, 1929.

Ser. No. 295,756. MILTON PAUL, doing business as International Extract Co., New York, N. Y. Filed Feb. 7, 1930.

NATURY

For True Fruit and Imitation Food Flavoring Extracts.
Claims use since July 10, 1929.

Ser. No. 295,780. CAUCHOIS COFFEE COMPANY, New York, N. Y. Filed Feb. 8, 1930.



For Cocoa Preparation Combined with Milk, Skimmed Milk, and Sugar.
Claims use since Jan. 14, 1930.

Ser. No. 295,895. H. D. FOSS & CO., INC., Cambridge, Mass. Filed Feb. 11, 1930.

TRAPAK

For Candy.
Claims use since Feb. 4, 1930.

Ser. No. 295,896. H. D. FOSS & CO., INC., Cambridge, Mass. Filed Feb. 11, 1930.

TRA-WAY

For Candy.
Claims use since Feb. 6, 1930.

Ser. No. 296,009. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Filed Feb. 14, 1930.

PIXIE

For Canned Soups, Vegetables, and Fruits.
Claims use since about Jan. 20, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 285,766. AMERICAN CENTRAL OFFICE OF SAINT THERESE, Manchester, N. H. Filed June 18, 1929.



No claim is made to the word "Déposé."
For Statues and Medals, Badges, Tokens, and Wall Ornaments Made Wholly or Partly of Plaster, Leather, Paper Compositions, Cloth, and Metals Which are Not Precious.
Claims use since July 1, 1923.

Ser. No. 289,955. AMERICAN STEEL PRODUCTS CO., Macomb, Ill. Filed Sept. 19, 1929.

OIL-O-STAT

For Brooders.
Claims use since about July 1, 1928.

Ser. No. 292,516. AMERICAN METAL CRAFTS COMPANY, INC., Attleboro, Mass. Filed Nov. 18, 1929.

AMCRAFT METAL

No claim being made for the word "Metal" apart from the mark shown.
For Articles Made of Nonprecious Metal—Namely, Military Insignia, Military Badges, Military Buttons, Ornamental Military Pins, Military Medals, and Military Ornaments for the Caps and Collars of Uniforms.
Claims use since June 1, 1929.

Ser. No. 292,517. AMERICAN METAL CRAFTS COMPANY, INC., Attleboro, Mass. Filed Nov. 18, 1929.

AMCRAFT METAL

No claim being made for the word "Metal" apart from the mark shown.
For Articles Made of Nonprecious Metal—Namely, Military Insignia, Military Badges, Military Buttons, Ornamental Military Pins, Military Medals, and Military Ornaments for the Caps and Collars of Uniforms.
Claims use since June 1, 1929.

Ser. No. 294,003. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 21, 1929.



For Nonmetallic Sheet Material Formed from Textile Material and a Binder.
Claims use since 1928.

Ser. No. 294,205. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Dec. 30, 1929.

Onco

For Artificial Leather.
Claims use since on or about Dec. 13, 1929.

Ser. No. 295,039. MORLEY BUTTON MANUFACTURING COMPANY, Portland, Me., and Portsmouth, N. H. Filed Jan. 21, 1930.

MORLEY

Applicant is the owner of registration No. 144,010 effected under the 10-year proviso.
For Dry Mats for Use in the Stereotyping Process of Printing.
Claims use since 1927.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

MARCH 25, 1930

268,939. COFFEE. C. W. ANTRIM & SONS, Richmond, Va.
Filed December 5, 1929. Serial No. 293,256. PUBLISHED JANUARY 14, 1930. Class 46.

268,940. COFFEE. C. W. ANTRIM & SONS, Richmond, Va.
Filed December 5, 1929. Serial No. 293,255. PUBLISHED JANUARY 14, 1930. Class 46.

268,941. ATHLETIC SHOES MADE PARTLY OF RUBBER AND PARTLY OF WOVEN FABRIC. THE SERVUS RUBBER COMPANY, Rock Island, Ill.
Filed November 29, 1929. Serial No. 293,076. PUBLISHED JANUARY 14, 1930. Class 39.

268,942. CHEWING GUM, SPECIFICALLY CHEWING GUM CONTAINING VITAMINS A, B, AND C. JACOB O. FEINMAN, Brooklyn, N. Y.
Filed November 30, 1929. Serial No. 293,095. PUBLISHED JANUARY 14, 1930. Class 46.

268,943. ATHLETIC SHOES MADE PARTLY OF RUBBER AND PARTLY OF WOVEN FABRIC. THE SERVUS RUBBER COMPANY, Rock Island, Ill.
Filed November 29, 1929. Serial No. 293,075. PUBLISHED JANUARY 14, 1930. Class 39.

268,944. FRESH CITRUS FRUITS. GENTILE BROS. COMPANY, Orlando, Fla.
Filed November 29, 1929. Serial No. 293,040. PUBLISHED JANUARY 14, 1930. Class 46.

268,945. TEXTILE CARPETS. HARDWICK & MAGEE COMPANY, Philadelphia, Pa.
Filed December 7, 1929. Serial No. 293,368. PUBLISHED JANUARY 14, 1930. Class 42.

268,946. CERTAIN RAYON YARNS AND COTTON YARNS. FORREST MERCERIZING CO., Gloucester City, N. J.
Filed December 6, 1929. Serial No. 293,316. PUBLISHED JANUARY 14, 1930. Class 43.

268,947. WOOLEN PIECE GOODS. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England.
Filed December 5, 1929. Serial No. 293,260. PUBLISHED JANUARY 14, 1930. Class 42.

268,948. SEMAPHORES. STUBBS & KUCK CO., Peoria, Ill.
Filed December 4, 1929. Serial No. 293,249. PUBLISHED JANUARY 14, 1930. Class 23.

268,949. RAZOR BLADES. CARL KLAAS, Solingen, Germany.
Filed December 4, 1929. Serial No. 293,221. PUBLISHED JANUARY 14, 1930. Class 23.

268,950. CANNED FRUITS, CANNED VEGETABLES, CANNED BERRIES, AND CANNED PRUNES. RED OWL STORES, INC., Minneapolis, Minn.
Filed March 29, 1929. Serial No. 281,567. PUBLISHED JANUARY 14, 1930. Class 46.

268,951. SHOES MADE OF LEATHER, RUBBER, TEXTILES, WICKERWORK, PAPER MATERIAL, AND OF COMBINATIONS OF THESE MATERIALS; HATS AND BELTS MADE OF WHOLE AND PLAITED LEATHER. TRIAS - SCHUHINDUSTRIE - GESELLSCHAFT M. B. H., Vienna, Austria.
Filed March 19, 1929. Serial No. 281,025. PUBLISHED JANUARY 7, 1930. Class 39.

268,952. CERTAIN NAMED WATERPROOFED FABRICS AND ARTIFICIAL LEATHER. RAINIZED PROCESS LTD., New York, N. Y.
Filed March 5, 1929. Serial No. 280,275. PUBLISHED DECEMBER 31, 1929. Class 50.

268,953. PLASTIC MATERIAL FOR LINING FURNACES AND FIRE BOXES. FLEXIBRICK COMPANY, Milwaukee, Wis.
Filed January 26, 1929. Serial No. 278,504. PUBLISHED APRIL 16, 1929. Class 12.

268,954. FRESH AND SALTED FISH AND FISH FILLETS. WILLIAM A. DOE CO., Boston, Mass.
Filed January 16, 1929. Serial No. 278,030. PUBLISHED JANUARY 14, 1930. Class 46.

268,955. RESILIENT VEHICLE TIRES OF RUBBER, RUBBER COMPOSITION, OR RUBBER AND FABRIC. THE MOHAWK RUBBER COMPANY, Akron, Ohio.
Filed January 5, 1929. Serial No. 277,683. PUBLISHED APRIL 9, 1929. Class 35.

268,956. LADIES' COATS, DRESSES, KNITTED, NETTED, AND TEXTILE UNDERWEAR, AND HATS. THE CONSOLIDATED RETAIL STORES, INC., New York, N. Y.
Filed December 27, 1928. Serial No. 277,242. PUBLISHED JANUARY 7, 1930. Class 39.

268,957. SHOES OF LEATHER OR RUBBER OR FABRIC MATERIALS OR OF COMBINATIONS OF LEATHER, RUBBER, AND FABRIC MATERIALS, AND HOSIERY. THE PARIS DRY GOODS CO., Great Falls, Mont., and New York, N. Y.
Filed June 20, 1928. Serial No. 268,384. PUBLISHED NOVEMBER 20, 1928. Class 39.

268,958. FRESH FRUIT—NAMELY, PEACHES, FRESH GRAPES, AND FRESH CANTALOUPES; FRESH VEGETABLES—NAMELY, LETTUCE. HALL PACKING CO., El Centro, Calif.
Filed May 24, 1928. Serial No. 266,929. PUBLISHED JANUARY 14, 1930. Class 46.

268,959. CANDY, NUTS, ETC. EDWARD F. KEMP, Somerville, Mass.
Filed April 30, 1928. Serial No. 265,655. PUBLISHED OCTOBER 8, 1929. Class 46.

268,960. MASTIC FLOORING. THE PERMA-FLOOR COMPANY, Cleveland, Ohio.
Filed February 13, 1928. Serial No. 261,645. PUBLISHED JANUARY 7, 1930. Class 12.

268,961. PENCILS, PENS, LEADS, AND RUBBER ERASERS. BROWN & BIGELOW, St. Paul, Minn.
Filed August 25, 1926. Serial No. 236,411. PUBLISHED FEBRUARY 12, 1929. Class 37.

268,962. PAPER RECORD SHEETS AND STRIPS, PADS, ETC. AMERICAN SALES BOOK COMPANY, LIMITED, Toronto, Ontario, Canada; Elmira and Niagara Falls, N. Y.
Filed October 4, 1927. Serial No. 255,586. PUBLISHED JANUARY 7, 1930. Class 37.

268,963. CANNED FISH. FRENCH SARDINE COMPANY OF CALIFORNIA, doing business as French Sardine Co. Inc., Terminal Island, Calif.
Filed July 13, 1927. Serial No. 252,012. PUBLISHED JANUARY 14, 1930. Class 46.

268,964. CANDY. SWEET CANDY COMPANY, Salt Lake City, Utah.
Filed June 8, 1927. Serial No. 250,212. PUBLISHED JUNE 26, 1928. Class 46.

268,965. PRINTED BOOKS AND PERIODICAL MAGAZINES. JOHN WILLY, Chicago, Ill.
Filed April 15, 1927. Serial No. 247,509. PUBLISHED JANUARY 7, 1930. Class 38.

268,966. FRESH CELERY, ASPARAGUS, ONIONS, AND POTATOES. LYONS-CLARK-LYONS, Terminous, Calif.
Filed December 24, 1928. Serial No. 277,178. PUBLISHED JANUARY 14, 1930. Class 46.

268,967. FILING BOXES MADE OF COMPOSITION MATERIALS, AS PASTEBOARD, FIBER BOARD, CHIP BOARD, AND THE LIKE. STANDARD FILING BOX COMPANY, Chicago, Ill.
Filed April 27, 1929. Serial No. 283,148. PUBLISHED JANUARY 7, 1930. Class 37.

268,968. LEATHER SHOES. BARTON SHOE CO., INC., Worcester, Mass.
Filed April 26, 1929. Serial No. 283,028. PUBLISHED JANUARY 7, 1930. Class 39.

268,969. METALLIC LAPS AND HONES AND LAPS AND HONES OF ABRASIVE MATERIAL. GEAR PROCESSING, INC., Cleveland, Ohio.
Filed September 12, 1929. Serial No. 289,674. PUBLISHED DECEMBER 31, 1929. Class 4.

268,970. COMPOUNDS FOR CLEANING, SHAVING CREAM, SOAP POWDERS, ETC. CLEOPATRA CHEMISTS CORPORATION, New York, N. Y.
Filed August 28, 1929. Serial No. 289,099. PUBLISHED DECEMBER 31, 1929. Class 4.

268,971. TOILET PREPARATIONS—VIZ, SHAVING EMOLLIENT. THE MOLLÉ COMPANY, Cleveland, Ohio.
Filed July 12, 1929. Serial No. 286,995. PUBLISHED DECEMBER 31, 1929. Class 4.

268,972. CLEANING FLUID USED AS A DRY CLEANER. SUPERIOR CHEMICAL COMPANY, INC., Los Angeles, Calif.
Filed June 24, 1929. Serial No. 286,085. PUBLISHED DECEMBER 31, 1929. Class 4.

268,973. CLEANER OF FALSE-TEETH PLATES. FRED D. HOHAM, Fort Wayne, Ind.
Filed June 19, 1929. Serial No. 285,800. PUBLISHED JANUARY 14, 1930. Class 4.

268,974. LIQUID DRY CLEANERS. USEFUL PRODUCTS COMPANY, Orange, N. J.
Filed June 4, 1929. Serial No. 285,052. PUBLISHED JANUARY 14, 1930. Class 4.

268,975. OLEOMARGARINE. THE BALTIMORE BUTTERINE CO., Baltimore, Md.
Filed November 27, 1929. Serial No. 292,067. PUBLISHED JANUARY 14, 1930. Class 46.

268,976. ROLLED OATS AND OAT FLAKES AND ALSO A CEREAL BREAKFAST FOOD MADE FROM RYE AND OATS. PURITY OATS COMPANY, Keokuk, Iowa.
Filed November 25, 1929. Serial No. 292,900. PUBLISHED JANUARY 14, 1930. Class 46.

268,977. FERROUS-METAL CASTINGS. THE DURBAR CORPORATION, Newark, N. J.
Filed October 28, 1929. Serial No. 291,658. PUBLISHED DECEMBER 31, 1929. Class 14.

268,978. IRON AND STEEL. RUSTLESS IRON CORPORATION OF AMERICA, New York, N. Y.
Filed October 25, 1929. Serial No. 291,580. PUBLISHED DECEMBER 31, 1929. Class 14.

268,979. PRINTER'S TYPE. CONTINENTAL TYPEFOUNDERS ASSOCIATION, INC., New York, N. Y.
Filed October 11, 1929. Serial No. 290,939. PUBLISHED JANUARY 7, 1930. Class 14.

268,980. WHEAT FLOUR. THE COLORADO MILLING & ELEVATOR CO., Denver, Colo.
Filed October 9, 1929. Serial No. 290,821. PUBLISHED JANUARY 14, 1930. Class 46.

268,981. PLATED, HIGHLY-POLISHED, NONFERROUS METALS. APOLLO METAL WORKS, La Salle, Ill.
Filed September 26, 1929. Serial No. 290,236. PUBLISHED JANUARY 7, 1930. Class 14.

268,982. PLATED, HIGHLY-POLISHED, NONFERROUS METALS. APOLLO METAL WORKS, La Salle, Ill.
Filed September 26, 1929. Serial No. 290,235. PUBLISHED JANUARY 7, 1930. Class 14.

268,983. PLATED, HIGHLY-POLISHED, NONFERROUS METALS. APOLLO METAL WORKS, La Salle, Ill.
Filed September 26, 1929. Serial No. 290,234. PUBLISHED JANUARY 7, 1930. Class 14.

268,984. PLATED, HIGHLY-POLISHED, NONFERROUS METALS. APOLLO METAL WORKS, La Salle, Ill.
Filed September 26, 1929. Serial No. 290,233. PUBLISHED JANUARY 7, 1930. Class 14.

268,985. BRONZE AND OTHER NONFERROUS METALS. REPUBLIC BRASS CORPORATION, New York, N. Y.
Filed September 21, 1920. Serial No. 290,108. PUBLISHED JANUARY 7, 1930. Class 14.

268,986. HORSE COVERS. PITTSBURGH WATERPROOF COMPANY, Pittsburgh, Pa.
Filed September 14, 1929. Serial No. 289,801. PUBLISHED JANUARY 14, 1930. Class 3.

268,987. CEREAL USED IN THE MANUFACTURE OF SAUSAGE, MEAT PRODUCTS, AND CANDY. GRIFFITH LABORATORIES, INC., Chicago, Ill.
Filed September 3, 1929. Serial No. 289,278. PUBLISHED JANUARY 14, 1930. Class 46.

268,988. CEREAL USED IN THE MANUFACTURE OF SAUSAGE, MEAT PRODUCTS, AND CANDY. GRIFFITH LABORATORIES, INC., Chicago, Ill.
Filed September 3, 1929. Serial No. 289,276. PUBLISHED JANUARY 14, 1930. Class 46.

268,989. BOTTLING CONCENTRATE FOR MANUFACTURING NONALCOHOLIC BEVERAGES. HOLLYWOOD DRY CORPORATION, doing business as Purity-bonded Products, Inc., Los Angeles, Calif.
Filed December 4, 1929. Serial No. 293,220. PUBLISHED JANUARY 14, 1930. Class 45.

268,990. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed November 30, 1929. Serial No. 293,092. PUBLISHED JANUARY 14, 1930. Class 42.

268,991. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed November 30, 1929. Serial No. 293,090. PUBLISHED JANUARY 14, 1930. Class 42.

268,992. SEWING MACHINES. NATIONAL SEWING MACHINE COMPANY, Belvidere, Ill.
Filed November 29, 1929. Serial No. 293,068. PUBLISHED JANUARY 14, 1930. Class 23.

268,993. STONEWORKING MACHINERY. LINCOLN IRON WORKS, Rutland, Vt.
Filed November 29, 1929. Serial No. 293,054. PUBLISHED JANUARY 14, 1930. Class 23.

268,994. MATTRESSES FOR BEDS. THE J. C. HIRSCHMAN COMPANY, Indianapolis, Ind.
Filed November 29, 1929. Serial No. 293,047. PUBLISHED JANUARY 14, 1930. Class 32.

268,995. DAILY NEWSPAPER. THE TRIBUNE COMPANY, Tampa, Fla.
Filed December 5, 1929. Serial No. 293,297. PUBLISHED JANUARY 14, 1930. Class 38.

268,996. MONTHLY PERIODICAL. SPERRY FLOUR COMPANY, San Francisco, Calif.
Filed December 5, 1929. Serial No. 293,295. PUBLISHED JANUARY 14, 1930. Class 38.

268,997. ARCTICS. THE BEACON FALLS RUBBER SHOE COMPANY, Beacon Falls, Conn.
Filed December 30, 1929. Serial No. 294,201. Class 39.

268,998. BATHING SHOES. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed November 27, 1929. Serial No. 292,997. PUBLISHED JANUARY 14, 1930. Class 39.

268,999. FRESH PINEAPPLE. ARTHUR SERRA & CO., Chicago, Ill.
Filed November 25, 1929. Serial No. 292,909. PUBLISHED JANUARY 14, 1930. Class 46.

269,000. SHOES CONSTRUCTED OF LEATHER, RUBBER, OR FABRIC OR OF COMBINATIONS OF SAID MATERIALS. WILBAR'S, INC., Boston, Mass.
Filed November 21, 1929. Serial No. 292,698. PUBLISHED JANUARY 14, 1930. Class 39.

269,001. GLOVES OF LEATHER, RUBBER, AND/OR FABRIC AND COMBINATIONS THEREOF. STERN BROTHERS, New York, N. Y.
Filed November 9, 1929. Serial No. 292,235. PUBLISHED JANUARY 14, 1930. Class 39.

269,002. HOSIERY, AND SHOES MADE OF LEATHER AND RUBBER. UNITED SHOE COMPANY, Philadelphia, Pa.
Filed November 7, 1929. Serial No. 292,131. PUBLISHED JANUARY 14, 1930. Class 39.

269,003. SHOES MADE OF LEATHER OR FABRIC OR OF COMBINATIONS OF THOSE MATERIALS. THE BUDDY-BOTTI STEP SHOE CO., INC., Bethlehem, Pa.
Filed November 2, 1929. Serial No. 291,904. PUBLISHED JANUARY 14, 1930. Class 39.

269,004. GAUNTLET GLOVES, USUALLY OF COTTON AND COTTON AND LEATHER. WELLS-LAMONT MANUFACTURING COMPANY, Minneapolis, Minn.
Filed November 1, 1929. Serial No. 291,898. PUBLISHED JANUARY 14, 1930. Class 39.

269,005. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Cambridge, Mass.
Filed October 28, 1929. Serial No. 291,688. PUBLISHED JANUARY 7, 1930. Class 46.

269,006. SHOES CONSTRUCTED OF LEATHER. L. ALTSTADT & E. WALDNER, New York, N. Y.
Filed October 15, 1929. Serial No. 291,075. PUBLISHED JANUARY 7, 1930. Class 39.

269,007. CERTAIN NAMED WEARING APPAREL. THREE SISTERS, INC., New York, N. Y.
Filed October 5, 1929. Serial No. 290,724. PUBLISHED JANUARY 14, 1930. Class 39.

269,008. LEATHER AND FABRIC GLOVES. STEINBERGER BROS. GLOVE CORP., San Francisco, Calif., and New York, N. Y.
Filed September 30, 1929. Serial No. 290,435. PUBLISHED DECEMBER 31, 1929. Class 39.

269,009. SHOES, SANDALS, SLIPPERS, AND CUT-OUT PARTS OF SHOES MADE OF LEATHER, RUBBER, AND FABRIC AND OF COMBINATIONS OF THOSE MATERIALS. THE EMPIRE SHOE CORP., New York, N. Y.
Filed September 25, 1929. Serial No. 290,212. PUBLISHED JANUARY 14, 1930. Class 39.

269,010. CERTAIN NAMED WEARING APPAREL. JAUNTY JEAN COMPANY, Los Angeles, Calif.
Filed September 21, 1929. Serial No. 290,070. PUBLISHED JANUARY 14, 1930. Class 39.

269,011. BOOTS AND SHOES MADE OF LEATHER, FABRIC, AND RUBBER AND COMBINATIONS OF THE SAME. SAM ARMISHAW, doing business as Armishaw's, Portland, Oreg.
Filed November 21, 1929. Serial No. 292,649. PUBLISHED JANUARY 14, 1930. Class 39.

269,012. CORSETS, BRASSIÈRES, AND GIRDLES AND COMBINATIONS OF THE SAME. KOPS BROS. INC., New York, N. Y.
Filed November 20, 1929. Serial No. 292,633. PUBLISHED JANUARY 14, 1930. Class 39.

269,013. WOMEN'S SHOES CONSTRUCTED OF LEATHER, RUBBER, FABRIC, IMITATION REPTILE, GENUINE REPTILE, AND COMBINATIONS OF SAME. GEORGE GLASER, doing business as Paramount Shoe Store, Scranton, Pa.
Filed November 18, 1929. Serial No. 292,527. PUBLISHED JANUARY 14, 1930. Class 39.

269,014. SHOES MADE OF LEATHER. E. P. REED & Co., Rochester, N. Y.
Filed November 15, 1929. Serial No. 292,462. PUBLISHED JANUARY 14, 1930. Class 39.

269,015. CERTAIN NAMED WEARING APPAREL. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed October 25, 1929. Serial No. 291,587. PUBLISHED JANUARY 7, 1930. Class 39.

269,016. MEN'S AND WOMEN'S FUR-FELT HATS, COMMONLY CALLED FELT HATS. G. W. ALEXANDER & Co., INC., Reading, Pa.
Filed October 25, 1929. Serial No. 291,544. PUBLISHED JANUARY 7, 1930. Class 39.

269,017. FRESH POTATOES AND TURNIPS. PRODUCE DEALERS SUPPLY COMPANY, Boston, Mass.
Filed October 10, 1929. Serial No. 290,908. PUBLISHED JANUARY 14, 1930. Class 46.

269,018. BUCKLES MADE OF NONPRECIOUS METAL. THE RIKER COMPANY, Newark, N. J.
Filed April 22, 1929. Serial No. 282,794. PUBLISHED JANUARY 7, 1930. Class 40.

269,019. WOMEN'S HATS. OUTLET MILLINERY COMPANY, INCORPORATED, Hartford, Conn.
Filed April 18, 1929. Serial No. 282,610. PUBLISHED JANUARY 7, 1930. Class 39.

269,020. DECORATIVE PAPERS, PARTICULARLY WRAPPING PAPER, AND DECORATIVE COVERING PAPER. PINCO PAPERS, INCORPORATED, Camden, N. J.
Filed April 3, 1929. Serial No. 281,789. PUBLISHED DECEMBER 31, 1929. Class 37.

269,021. TOILET SOAPS AND SHAVING CREAMS. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,946. PUBLISHED JANUARY 14, 1930. Class 4.

269,022. TOILET SOAPS AND SHAVING CREAMS. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,944. PUBLISHED JANUARY 14, 1930. Class 4.

269,023. TOILET SOAPS AND SHAVING CREAMS. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,942. PUBLISHED JANUARY 14, 1930. Class 4.

269,024. TOILET SOAPS AND SHAVING CREAMS. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,940. PUBLISHED JANUARY 14, 1930. Class 4.

269,025. CALENDARS. THE CATHOLIC CHURCH EXTENSION SOCIETY OF THE UNITED STATES OF AMERICA, Chicago, Ill.
Filed November 25, 1929. Serial No. 292,864. PUBLISHED JANUARY 14, 1930. Class 38.

269,026. TOILET SOAPS AND SHAVING CREAMS. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,938. PUBLISHED JANUARY 14, 1930. Class 4.

269,027. SOAPS AND SHAVING CREAMS. CHERAMY, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,923. PUBLISHED JANUARY 14, 1930. Class 4.

269,028. SOAP. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed November 23, 1929. Serial No. 292,794. PUBLISHED JANUARY 14, 1930. Class 4.

269,029. SOAP. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed November 22, 1929. Serial No. 292,778. PUBLISHED JANUARY 14, 1930. Class 4.

269,030. CAPS AND BANDS OF CELLULOSE. DU PONT CELLOPHANE COMPANY, INC., New York, N. Y.
Filed November 14, 1929. Serial No. 292,722. PUBLISHED JANUARY 14, 1930. Class 50.

269,031. PERIODICAL. WILLIAM B. DANA COMPANY, New York, N. Y.
Filed November 21, 1929. Serial No. 292,659. PUBLISHED JANUARY 14, 1930. Class 38.

269,032. COMIC STRIP. NEA SERVICE, INC., Cleveland, Ohio.
Filed November 19, 1929. Serial No. 292,590. PUBLISHED JANUARY 14, 1930. Class 38.

269,033. MONTHLY PUBLICATION. MEREDITH PUBLISHING COMPANY, Des Moines, Iowa.
Filed November 19, 1929. Serial No. 292,587. PUBLISHED JANUARY 14, 1930. Class 38.

269,034. SOAP, SOAP POWDER, SHAVING CREAM, ETC. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed November 16, 1929. Serial No. 292,484. PUBLISHED JANUARY 14, 1930. Class 4.

269,035. PERIODICAL. NATIONAL PAPER AND TYPE COMPANY, INC., New York, N. Y.
Filed November 12, 1929. Serial No. 292,329. PUBLISHED DECEMBER 31, 1929. Class 38.

269,036. QUARTERLY PUBLICATION. CHARLES H. MCCARTHY, Minneapolis, Minn.
Filed November 11, 1929. Serial No. 292,272. PUBLISHED DECEMBER 31, 1929. Class 38.

269,037. CANNED SALMON. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed November 8, 1929. Serial No. 292,179. PUBLISHED JANUARY 14, 1930. Class 46.

269,038. SHAVING CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,143. PUBLISHED JANUARY 7, 1930. Class 4.

269,039. PHOTOGRAPHS, PORTRAITS, AND PAINTINGS. MAX STRAUSS, doing business as Masterhand Photo Studio, Queens, N. Y.
Filed November 4, 1929. Serial No. 292,017. PUBLISHED JANUARY 14, 1930. Class 38.

269,040. STEEL WOOL AND SOAP USED FOR GENERAL HOUSEHOLD PURPOSES. MANHATTAN SOAP COMPANY, INC., New York, N. Y.
Filed November 1, 1929. Serial No. 291,886. PUBLISHED JANUARY 7, 1930. Class 4.

269,041. PERIODICAL PUBLICATION. PSI OMEGA, Pittsburgh, Pa.
Filed December 5, 1929. Serial No. 293,292. PUBLISHED JANUARY 14, 1930. Class 38.

269,042. HORSESHOES. PHOENIX MANUFACTURING COMPANY, Joliet, Ill.
Filed December 3, 1929. Serial No. 293,191. PUBLISHED JANUARY 14, 1930. Class 3.

269,043. STOCK AND POULTRY FEEDS. E. M. HART, doing business as Feeders Co-Operative System of Omaha, Hastings, Nebr.
Filed December 3, 1929. Serial No. 293,178. PUBLISHED JANUARY 14, 1930. Class 46.

269,044. FRUIT CAKES. ELLEN GILMER PAINTER, Alexandria, Va.
Filed December 2, 1929. Serial No. 293,170. PUBLISHED JANUARY 14, 1930. Class 46.

269,045. RICE. LOUISIANA STATE RICE MILLING COMPANY, INC., Abbeville, La.
Filed December 2, 1929. Serial No. 293,145. PUBLISHED JANUARY 14, 1930. Class 46.

269,046. MAGAZINES PUBLISHED EVERY MONTH. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn.
Filed November 29, 1929. Serial No. 293,084. PUBLISHED JANUARY 14, 1930. Class 38.

269,047. PERIODICAL. WILLIAM B. DANA COMPANY, New York, N. Y.
Filed November 29, 1929. Serial No. 293,029. PUBLISHED JANUARY 14, 1930. Class 38.

269,048. CERTAIN NAMED RUBBER. THE FISK RUBBER COMPANY, Chicopee Falls, Mass., and Cudahy, Wis.
Filed August 7, 1929. Serial No. 288,229. PUBLISHED DECEMBER 31, 1929. Class 1.

269,049. COAL. FROST COAL COMPANY, Neponset, Mass.
Filed June 29, 1929. Serial No. 286,355. PUBLISHED DECEMBER 24, 1929. Class 1.

269,050. WATERPROOF FABRIC AND WATERPROOF-COTTON DUCK. WM. E. HOOPER & SONS CO., Woodberry, Baltimore, Md.
Filed June 26, 1929. Serial No. 286,169. PUBLISHED DECEMBER 24, 1929. Class 50.

269,051. HOPS. J. SONNENSCHEIN HOP COMPANY, INC., New York, N. Y.
Filed June 22, 1929. Serial No. 285,990. PUBLISHED JANUARY 7, 1930. Class 1.

269,052. ARTIFICIAL CELLULOSIC MATERIALS. MICHEL DASSONVILLE, Paris, France.
Filed June 20, 1929. Serial No. 285,862. PUBLISHED JANUARY 14, 1930. Class 1.

269,053. MATERIAL MADE FROM SCRAPS OF REAL LEATHER. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,830. PUBLISHED DECEMBER 31, 1929. Class 1.

269,054. MATERIAL MADE FROM SCRAPS OF REAL LEATHER. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed June 19, 1929. Serial No. 285,829. PUBLISHED DECEMBER 31, 1929. Class 1.

269,055. ASBESTOS. SATISFACTION SUPPLY CO. INC., New York, N. Y.
Filed June 11, 1929. Serial No. 285,425. PUBLISHED DECEMBER 31, 1929. Class 1.

269,056. HOSIERY, GIRDLE VESTS, AND GARTERS. THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor to The Weil Corset Company, New Haven, Conn., a Corporation of Connecticut.
Filed November 4, 1924. Serial No. 204,843. PUBLISHED DECEMBER 18, 1928. Class 39.

269,057. CORSETS, BRASSIÈRES, GIRDLES, AND GIRDLE VESTS. THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor to The Weil Corset Company, New Haven, Conn., a Corporation of Connecticut.
Filed November 21, 1924. Serial No. 205,667. PUBLISHED DECEMBER 18, 1928. Class 39.

269,058. GIRDLES AND CORSETS. THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor, by mesne assignments, to The Weil Corset Company, New Haven, Conn., a Corporation of Connecticut.
Filed July 28, 1924. Serial No. 200,411. PUBLISHED DECEMBER 18, 1928. Class 39.

269,059. GIRDLES AND CORSETS. THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor, by mesne assignments, to The Weil Corset Company, New Haven, Conn., a Corporation of Connecticut.
Filed July 28, 1924. Serial No. 200,410. PUBLISHED DECEMBER 18, 1928. Class 39.

269,060. CORSETS AND BRASSIÈRES. THE THOMPSON-BARLOW CO., INC., New York, N. Y., assignor, by mesne asignments, to The Weil Corset Company, New Haven, Conn., a Corporation of Connecticut.
Filed April 12, 1924. Serial No. 195,466. PUBLISHED DECEMBER 18, 1928. Class 39.

269,061. CERTAIN NAMED WEARING APPAREL. THE UNION COMPANY, INC., Columbus, Ohio.
Filed December 1, 1928. Serial No. 276,158. PUBLISHED FEBRUARY 19, 1929. Class 39.

269,062. SEWING THREAD. BOXY THREAD CORPORATION, New York, N. Y.
Filed November 24, 1928. Serial No. 275,795. PUBLISHED JANUARY 14, 1930. Class 48.

269,063. LEATHER SHOES. S. DALSIMER AND SONS, Philadelphia, Pa.
Filed November 24, 1928. Serial No. 275,769. PUBLISHED JANUARY 14, 1930. Class 39.

269,064. EGG BEATERS AND CREAM WHIPPERS. SAMUEL I. RICE, Cleveland, Ohio.
Filed November 17, 1928. Serial No. 275,455. PUBLISHED JANUARY 14, 1930. Class 28.

269,065. COCOA PREPARATION COMBINED WITH MILK, SKIMMED MILK, AND SUGAR. CAUCHOIS COFFEE COMPANY, New York, N. Y.
Filed November 9, 1928. Serial No. 275,018. PUBLISHED JANUARY 8, 1929. Class 46.

269,066. FERROUS-METAL SHEETS FOR CULVERT AND FLUME MANUFACTURE. THE AMERICAN ROLLING MILL CO., Middletown, Ohio.
Filed November 3, 1928. Serial No. 274,754. PUBLISHED JANUARY 7, 1930. Class 14.

269,067. RAZOR BLADES. RICHARD KAMPFE, doing business as Jewel Razor Blade Company, Newark, N. J.
Filed October 18, 1928. Serial No. 273,971. PUBLISHED JANUARY 8, 1929. Class 23.

269,068. MANUFACTURED LEATHER WHICH HAS BEEN CUT INTO SHAPES. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,782. PUBLISHED DECEMBER 24, 1929. Class 50.

269,069. MANUFACTURED LEATHER WHICH HAS BEEN CUT INTO SHAPES. SOCIETÀ INVENZIONI BREVETTI ANONIMA-TORINO, Turin, Italy.
Filed August 30, 1928. Serial No. 271,777. PUBLISHED DECEMBER 24, 1929. Class 50.

269,070. MEN'S WORK SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed August 24, 1928. Serial No. 271,511. PUBLISHED JANUARY 7, 1930. Class 39.

269,071. CUT STONE. ROCKWOOD ALABAMA STONE COMPANY, Russellville, Ala.
Filed August 18, 1928. Serial No. 271,269. PUBLISHED JANUARY 14, 1930. Class 12.

269,072. CERTAIN NAMED CONSTRUCTION MATERIALS. REION-ON PRODUCTS COMPANY, Chicago, Ill.
Filed May 27, 1929. Serial No. 284,694. PUBLISHED JANUARY 14, 1930. Class 12.

269,073. COTTON, LINEN, SILK, RAYON, AND/OR COMBINATIONS THEREOF IN THE PIECE. FRED BUTTERFIELD & CO., INC., New York, N. Y.
Filed May 22, 1929. Serial No. 284,488. PUBLISHED JANUARY 14, 1930. Class 42.

269,074. RUBBER SANDALS OR FOOTHOLDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed May 17, 1929. Serial No. 284,184. PUBLISHED JANUARY 7, 1930. Class 39.

269,075. SHAVING CREAM. MARK W. ALLEN & CO., Detroit, Mich.
Filed May 13, 1929. Serial No. 283,928. PUBLISHED JANUARY 14, 1930. Class 4.

269,076. WATERPROOF COTTON DUCK OR SIMILAR AWNING FABRIC WITH PAINTED DESIGNS. THE COOLEY FINISHING COMPANY, Pawtucket, R. I.
Filed May 8, 1929. Serial No. 283,674. PUBLISHED DECEMBER 31, 1929. Class 50.

269,077. COMPOSITION SHINGLES. THE LOGAN-LONG COMPANY, Franklin, Ohio; Atlanta, Ga.; Fulton, N. Y.; and Chicago, Ill.
Filed May 6, 1929. Serial No. 283,575. PUBLISHED JANUARY 14, 1930. Class 12.

269,078. METAL POLISH, METAL AND GLASS POLISH, AND LIQUID CLEANING FLUID. LEENO PRODUCTS CO., Baltimore, Md.
Filed April 29, 1929. Serial No. 283,199. PUBLISHED JANUARY 7, 1930. Class 4.

269,079. COAL. CLYDE E. SPEER COAL CO., INCORPORATED, Pittsburgh, Pa.
Filed November 14, 1929. Serial No. 292,424. PUBLISHED JANUARY 14, 1930. Class 1.

269,080. FIRE BRICK. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed November 12, 1929. Serial No. 292,321. PUBLISHED JANUARY 14, 1930. Class 12.

269,081. FIRE BRICK. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed November 12, 1929. Serial No. 292,320. PUBLISHED JANUARY 14, 1930. Class 12.

269,082. FIRE BRICK. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed November 12, 1929. Serial No. 292,319. PUBLISHED JANUARY 14, 1930. Class 12.

269,083. FIRE BRICK. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed November 12, 1929. Serial No. 292,318. PUBLISHED JANUARY 14, 1930. Class 12.

269,084. PLASTER. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed November 11, 1929. Serial No. 292,300. PUBLISHED JANUARY 14, 1930. Class 12.

269,085. FINISHED PRINTING PLATES. THE STETSON PRESS, Boston, Mass.
Filed November 9, 1929. Serial No. 292,236. PUBLISHED JANUARY 14, 1930. Class 50.

269,086. CERTAIN NAMED CONSTRUCTION MATERIALS. THE FLINTKOTE COMPANY, Boston, Mass.
Filed November 7, 1929. Serial No. 292,103. PUBLISHED JANUARY 14, 1930. Class 12.

269,087. ASPHALT ROOFING. THE FLINTKOTE COMPANY, Boston, Mass.
Filed November 7, 1929. Serial No. 292,100. PUBLISHED JANUARY 14, 1930. Class 12.

269,088. COMPOSITION PLASTER. MARSHALL E. DENNEY, doing business as Cedarseald Company, Tampa, Fla.
Filed November 4, 1929. Serial No. 291,965. PUBLISHED JANUARY 7, 1930. Class 12.

269,089. RUBBERIZED FABRICS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 2, 1929. Serial No. 291,912. PUBLISHED JANUARY 7, 1930. Class 50.

269,090. NONCUT INDUSTRIAL DIAMONDS. DORUS VAN ITALLIE, doing business as The Van Itallie Company, New York, N. Y.
Filed November 1, 1929. Serial No. 291,897. PUBLISHED JANUARY 7, 1930. Class 1.

269,091. HIGH-TEMPERED FIRE CEMENT. ALLEN & ALLEN, INC., Providence, R. I.
Filed October 31, 1929. Serial No. 291,807. PUBLISHED JANUARY 14, 1930. Class 12.

269,092. HOPS. PURITAN MALT EXTRACT COMPANY, Chicago, Ill.
Filed October 28, 1929. Serial No. 291,693. PUBLISHED DECEMBER 31, 1929. Class 1.

269,093. HOPS. PURITAN MALT EXTRACT COMPANY, Chicago, Ill.
Filed October 28, 1929. Serial No. 291,692. PUBLISHED JANUARY 14, 1930. Class 1.

269,094. BRICK. ACME BRICK COMPANY, Danville, Ill.
Filed October 26, 1929. Serial No. 291,600. PUBLISHED DECEMBER 31, 1929. Class 12.

269,095. SHEETS MADE OF REGENERATED CELLULOSE. SYLVANIA INDUSTRIAL CORPORATION, New York, N. Y.
Filed October 25, 1929. Serial No. 291,593. PUBLISHED DECEMBER 31, 1929. Class 1.

269,096. ROOF COATING AND WATERPROOFING COMPOUND. BONDED MATERIALS COMPANY, Louisville, Ky.
Filed October 24, 1929. Serial No. 291,496. PUBLISHED JANUARY 14, 1930. Class 12.

269,097. ROOF COATING AND WATERPROOFING COMPOUND. BONDED MATERIALS COMPANY, Louisville, Ky.
Filed October 24, 1929. Serial No. 291,495. PUBLISHED JANUARY 14, 1930. Class 12.

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269,098. ROOF COATING AND WATERPROOFING COMPOUND. BONDED MATERIALS COMPANY, Louisville, Ky.
Filed October 24, 1929. Serial No. 291,494. PUBLISHED JANUARY 14, 1930. Class 12.

269,099. CRUSHED-FIRE-BRICK GROG. A. P. GREEN FIRE BRICK COMPANY, Mexico, Mo.
Filed October 23, 1929. Serial No. 291,450. PUBLISHED JANUARY 14, 1930. Class 12.

269,100. COLORED GYPSUM STUCCO INCLUDING EXTERIOR COLORED STUCCO AND INTERIOR COLORED PLASTER. THE AMERICAN GYPSUM COMPANY, Port Clinton, Ohio.
Filed October 23, 1929. Serial No. 291,421. PUBLISHED DECEMBER 24, 1929. Class 12.

269,101. COAL. THE SENECA COAL AND COKE COMPANY, Tulsa, Okla.
Filed October 18, 1929. Serial No. 291,244. PUBLISHED DECEMBER 31, 1929. Class 1.

269,102. CEMENT WATERPROOFING. PIERRE H. OZANNE, doing business as Stego Cement Waterproofing Co., Seattle, Wash.
Filed October 18, 1929. Serial No. 291,236. PUBLISHED JANUARY 14, 1930. Class 12.

269,103. COAL. MIDWEST LUMBER COMPANY, Dubuque, Iowa.
Filed October 18, 1929. Serial No. 291,230. PUBLISHED JANUARY 14, 1930. Class 1.

269,104. PACKAGE OUTFITS OR SETS. THE PORTER CHEMICAL COMPANY, Hagerstown, Md.
Filed October 17, 1929. Serial No. 291,174. PUBLISHED JANUARY 7, 1930. Class 50.

269,105. LEATHER. HAGERSTOWN LEATHER CO., INC., Hagerstown, Md.
Filed October 12, 1929. Serial No. 291,005. PUBLISHED DECEMBER 24, 1929. Class 1.

269,106. CLAYS. OWYHEE CHEMICAL PRODUCTS COMPANY, Cheyenne, Wyo.
Filed October 11, 1929. Serial No. 290,967. PUBLISHED JANUARY 7, 1930. Class 1.

269,107. PROTECTIVE COATING FOR ROOFS. THE GIBSON-HOMANS WESTERN COMPANY, Kansas City, Mo.
Filed October 9, 1929. Serial No. 290,830. PUBLISHED DECEMBER 24, 1929. Class 12.

269,108. CERTAIN NAMED CONSTRUCTION MATERIALS. BENJAMIN FOSTER COMPANY INCORPORATED, Philadelphia, Pa.
Filed October 9, 1929. Serial No. 290,828. PUBLISHED JANUARY 14, 1930. Class 12.

269,109. EIGHT-SIDED COTTAGES. ST. ELMO LUMBER & COAL COMPANY, St. Elmo, Ill.
Filed October 2, 1929. Serial No. 290,527. PUBLISHED DECEMBER 31, 1929. Class 12.

269,110. PLASTIC COATING FOR PICKLING TANKS AND THE LIKE. WILLIAM E. SMITH, doing business as Ceilcote Company, Cleveland, Ohio.
Filed September 30, 1929. Serial No. 290,483. PUBLISHED JANUARY 7, 1930. Class 12.

269,111. CELLULOSE SHEETS. DU PONT CELLOPHANE COMPANY, INC., New York, N. Y.
Filed September 27, 1929. Serial No. 290,308. PUBLISHED JANUARY 7, 1930. Class 50.

269,112. CERTAIN NAMED CONSTRUCTION MATERIALS. BENJAMIN FOSTER COMPANY INCORPORATED, Philadelphia, Pa.
Filed September 25, 1929. Serial No. 290,214. PUBLISHED JANUARY 14, 1930. Class 12.

269,113. CERTAIN NAMED CONSTRUCTION MATERIALS. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y.
Filed September 23, 1929. Serial No. 290,115. PUBLISHED JANUARY 14, 1930. Class 12.

269,114. DIATOMACEOUS SILICA. PACATOME COMPANY, San Francisco, Calif.
Filed August 24, 1929. Serial No. 288,977. PUBLISHED DECEMBER 31, 1929. Class 1.

269,115. DIATOMACEOUS SILICA USED AS AN INSULATION MEDIUM. PACATOME COMPANY, San Francisco, Calif.
Filed August 24, 1929. Serial No. 288,974. PUBLISHED DECEMBER 31, 1929. Class 1.

269,116. COAL AND COKE. KEYSTONE COAL AND COKE COMPANY, Greensburg, Pa.
Filed August 21, 1929. Serial No. 288,809. PUBLISHED JANUARY 7, 1930. Class 1.

269,117. CERTAIN NAMED CONSTRUCTION MATERIALS. THE TREMCO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed August 8, 1929. Serial No. 288,293. PUBLISHED JANUARY 7, 1930. Class 12.

269,118. CERTAIN NAMED RUBBER. THE FISK RUBBER COMPANY, Chicopee Falls, Mass., and Cudahy, Wis.
Filed August 7, 1929. Serial No. 288,230. PUBLISHED DECEMBER 31, 1929. Class 1.

269,119. BOND, MIMEOGRAPH, BOOK, WRITING, AND TOILET PAPER. KNIGHT BROTHERS PAPER COMPANY, Jacksonville, Fla.
Filed November 22, 1929. Serial No. 292,734. PUBLISHED JANUARY 7, 1930. Class 37.

269,120. FOUNTAIN PENS AND PENCILS. MORRISON FOUNTAIN PEN CO. INC., New York, N. Y.
Filed November 19, 1929. Serial No. 292,589. PUBLISHED JANUARY 14, 1930. Class 37.

269,121. PHOTOGRAPHS. FRANCIS FORD, doing business as St. Louis Commercial Photographers, St. Louis, Mo.
Filed November 15, 1929. Serial No. 292,447. PUBLISHED JANUARY 7, 1930. Class 38.

269,122. BOOKKEEPING RECORD FORMS. HARRY S. WITTNER, doing business as H. S. Wittner, New York, N. Y.
Filed November 14, 1929. Serial No. 292,430. PUBLISHED JANUARY 7, 1930. Class 37.

269,123. PERIODICALS. DELL PUBLISHING COMPANY, INC., New York, N. Y.
Filed November 14, 1929. Serial No. 292,397. PUBLISHED JANUARY 7, 1930. Class 38.

269,124. PERIODICALS. SKY NEWS, INC., New York, N. Y.
Filed November 12, 1929. Serial No. 292,338. PUBLISHED JANUARY 7, 1930. Class 38.

269,125. DULL-FINISHED PAPER SUITABLE FOR USE WITH WATER-COLOR INKS AND FOR COVER STOCK. THE MARTIN CANTINE COMPANY, Saugerties, N. Y.
Filed November 12, 1929. Serial No. 292,327. PUBLISHED JANUARY 7, 1930. Class 37.

269,126. PAPER LINING FOR CORRUGATED PAPER. SCHMIDT & AULT PAPER CO., York, Pa.
Filed November 11, 1929. Serial No. 292,290. PUBLISHED JANUARY 7, 1930. Class 37.

269,127. BOND PAPER. APOLLO PAPER CORPORATION, New York, N. Y.
Filed November 11, 1929. Serial No. 292,245. PUBLISHED JANUARY 7, 1930. Class 37.

269,128. MONTHLY PUBLICATION. THE AMERICAN OCCUPATIONAL THERAPY ASSOCIATION, New York, N. Y.
Filed November 11, 1929. Serial No. 292,243. PUBLISHED JANUARY 7, 1930. Class 38.

269,129. CRAYONS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed November 11, 1929. Serial No. 292,242. PUBLISHED JANUARY 7, 1930. Class 37.

269,130. CRAYONS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed November 11, 1929. Serial No. 292,241. PUBLISHED JANUARY 7, 1930. Class 37.

269,131. SECTION OF A NEWSPAPER. NEWSPAPER CORPORATION OF AMERICA, Indianapolis, Ind.
Filed November 9, 1929. Serial No. 292,226. PUBLISHED JANUARY 7, 1930. Class 38.

269,132. FOUNTAIN PENS. KAUFMANN BROS. & BONDY, INC., West New York, N. J.
Filed November 9, 1929. Serial No. 292,213. PUBLISHED JANUARY 7, 1930. Class 37.

269,133. PAPER TOWELS. BAY WEST PAPER COMPANY, Green Bay, Wis.
Filed November 9, 1929. Serial No. 292,198. PUBLISHED JANUARY 14, 1930. Class 37.

269,134. PAPER TOWELS. BAY WEST PAPER COMPANY, Green Bay, Wis.
Filed November 9, 1929. Serial No. 292,197. PUBLISHED JANUARY 14, 1930. Class 37.

269,135. CRAYONS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed November 7, 1929. Serial No. 292,090. PUBLISHED JANUARY 7, 1930. Class 37.

269,136. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass.
Filed November 4, 1929. Serial No. 291,953. PUBLISHED JANUARY 7, 1930. Class 37.

269,137. TOILET SOAPS AND SHAVING CREAMS. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,943. PUBLISHED JANUARY 14, 1930. Class 4.

269,138. BOND, MIMEOGRAPH, BOOK, WRITING, AND TOILET PAPER. KNIGHT BROTHERS PAPER COMPANY, Jacksonville, Fla.
Filed November 22, 1929. Serial No. 292,735. PUBLISHED JANUARY 7, 1930. Class 37.

269,139. PERIODICAL. MANAGEMENT MAGAZINES, INC., Chicago, Ill.
Filed October 28, 1929. Serial No. 291,679. PUBLISHED JANUARY 7, 1930. Class 38.

269,140. SHAVING CREAM. FLORIAN, INC., Detroit, Mich.
Filed October 28, 1929. Serial No. 291,661. PUBLISHED JANUARY 14, 1930. Class 4.

269,141. HAND-CLEANING PREPARATION. THE SKAT COMPANY, Hartford, Conn.
Filed October 26, 1929. Serial No. 291,640. PUBLISHED DECEMBER 31, 1929. Class 4.

269,142. SOAP. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio.
Filed October 21, 1929. Serial No. 291,357. PUBLISHED JANUARY 7, 1930. Class 4.

269,143. SOAP, SHAVING CREAM AND POWDER, SHAVING STICK AND LIQUID. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed October 9, 1929. Serial No. 290,864. PUBLISHED JANUARY 7, 1930. Class 4.

269,144. MONTHLY MAGAZINE. BRYAN DAVIS PUBLISHING CO. INC., New York, N. Y.
Filed September 25, 1929. Serial No. 290,207. PUBLISHED DECEMBER 31, 1929. Class 38.

269,145. CLEANING COMPOUND. THE MINNESOTA CHEMICAL CO., INC., St. Paul, Minn.
Filed October 25, 1929. Serial No. 291,570. PUBLISHED JANUARY 14, 1930. Class 4.

269,146. MAGAZINES. THE PETROLEUM ENGINEER PUBLISHING CO., Tulsa, Okla.
Filed October 24, 1929. Serial No. 291,526. PUBLISHED JANUARY 7, 1930. Class 38.

269,147. CLEANING COMPOSITION USED PARTICULARLY AS A HAND AND FACE CLEANING SOAP. FOSTER LABORATORIES, INCORPORATED, St. Paul, Minn.
Filed October 18, 1929. Serial No. 291,218. PUBLISHED JANUARY 7, 1930. Class 4.

269,148. COMPOSITE PAPER OR FIBRE BOARD. CONTAINER CORPORATION OF AMERICA, Chicago, Ill.
Filed October 16, 1929. Serial No. 291,116. PUBLISHED JANUARY 14, 1930. Class 37.

269,149. PERIODICAL PUBLICATION. THE RUG-CRAFTER PUBLISHING COMPANY, Clearfield, Pa.
Filed October 9, 1929. Serial No. 290,859. PUBLISHED JANUARY 14, 1930. Class 38.

269,150. POWDER, PASTE, AND LIQUID POLISHES FOR CLEANING GOLD, SILVER, SILVER PLATE, AND SIMILAR SUBSTANCES. RECKITTS (U. S. A.), LTD., Hull, England, and Rochester, N. Y.
Filed October 3, 1929. Serial No. 290,601. PUBLISHED JANUARY 7, 1930. Class 4.

269,151. TOILET PAPER. WYOMING VALLEY PAPER MILL, Northumberland, N. H., and New York, N. Y.
Filed September 6, 1929. Serial No. 289,431. PUBLISHED DECEMBER 31, 1929. Class 37.

269,152. LEAD PENCILS, COLOURED PENCILS, AND COPYING PENCILS. SCHWAN-BLEISTIFT-FABRIK A.-G., Nuremberg, Germany.
Filed July 29, 1929. Serial No. 287,843. PUBLISHED DECEMBER 31, 1929. Class 37.

269,153. DRY-CLEANING COMPOUNDS. U. S. SANITARY SPECIALTIES CORPORATION, Chicago, Ill.
Filed July 22, 1929. Serial No. 287,511. PUBLISHED JANUARY 7, 1930. Class 4.

269,154. BOND PAPER. FORT DEARBORN LITHOGRAPH CO., Chicago, Ill.
Filed July 8, 1929. Serial No. 286,755. PUBLISHED JANUARY 7, 1930. Class 37.

269,155. WRITING PAPER AND ENVELOPES, PARTICULARLY PAPETERIES. Z. & W. M. CRANE, INC., Dalton, Mass.
Filed July 3, 1929. Serial No. 286,536. PUBLISHED JANUARY 14, 1930. Class 37.

269,156. FACE SOAP. CHARLOTTE E. WHITE, Carbondale, Ill.
Filed June 28, 1929. Serial No. 286,350. PUBLISHED JANUARY 14, 1930. Class 4.

269,157. ABRASIVE-RESISTING CASTINGS. LARRY J. BARTON, Angels Camp, Calif.
Filed August 7, 1929. Serial No. 288,215. PUBLISHED JANUARY 7, 1930. Class 14.

269,158. ANIMAL FEED IN THE FORM OF CRACKED CORN. RALSTON PURINA COMPANY, St. Louis, Mo.
Filed June 17, 1929. Serial No. 285,688. PUBLISHED JANUARY 14, 1930. Class 46.

269,159. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass.
Filed November 4, 1929. Serial No. 291,952. PUBLISHED JANUARY 7, 1930. Class 37.

269,160. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass.
Filed November 4, 1929. Serial No. 291,950. PUBLISHED JANUARY 7, 1930. Class 37.

269,161. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass.
Filed November 4, 1929. Serial No. 291,949. PUBLISHED JANUARY 7, 1930. Class 37.

269,162. WRITING AND PRINTING PAPER. AMERICAN WRITING PAPER COMPANY, INC., Holyoke, Mass.
Filed November 4, 1929. Serial No. 291,948. PUBLISHED JANUARY 7, 1930. Class 37.

269,163. CATALOGUES, PRINTED FOLDERS, MAGAZINES. THE VALLEY RANCH CO., Valley, Wyo.
Filed October 31, 1929. Serial No. 291,847. PUBLISHED JANUARY 7, 1930. Class 38.

269,164. PUBLICATION. MINNESOTA PUBLIC HEALTH ASSOCIATION, St. Paul, Minn.
Filed October 28, 1929. Serial No. 291,685. PUBLISHED JANUARY 7, 1930. Class 38.

269,165. A PREPARATION FOR CLEANING WOODWORK, PAINTED AND ENAMELED SURFACES, METAL WARE, CHINA, GLASS, CROCKERY, EARTHENWARE, PORCELAIN, AND TILING. CARRIE H. RAMBONNET, doing business as Mar-Vel-O Company, Chicago, Ill.
Filed October 25, 1929. Serial No. 291,577. PUBLISHED JANUARY 14, 1930. Class 4.

269,166. MALT SYRUP. FECKER COMPANY, Danville, Ill.
Filed March 7, 1929. Serial No. 280,371. PUBLISHED APRIL 23, 1929. Class 46.

269,167. FISH — NAMELY, FRESH, FROZEN, OR PACKED IN ICE. GENERAL FISHERIES CORPORATION, New York, N. Y.
Filed August 22, 1929. Serial No. 288,851. PUBLISHED JANUARY 14, 1930. Class 46.

269,168. CANNED FISH. ANGUS WATSON & CO. (AMERICA) LIMITED, San Francisco, Calif.
Filed July 25, 1929. Serial No. 287,648. PUBLISHED JANUARY 14, 1930. Class 46.

269,169. LADIES' WEARING APPAREL—NAMELY, CORSETS, GIRDLES, BRASSIÈRES, BANDEAUX, AND VARIOUS COMBINATIONS THEREOF. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed June 27, 1929. Serial No. 286,217. PUBLISHED JANUARY 7, 1930. Class 39.

269,170. BRAKE LININGS. ALLBESTOS CORPORATION, Philadelphia, Pa.
Filed November 27, 1929. Serial No. 292,964. PUBLISHED JANUARY 14, 1930. Class 35.

269,171. PERFUME, TOILET WATER, FACE POWDER, ETC. HOUBIGANT, INC., New York, N. Y.
Filed November 26, 1929. Serial No. 292,941. PUBLISHED JANUARY 7, 1930. Class 6.

269,172. GASKETS. VICTOR MANUFACTURING & GASKET CO., Chicago, Ill.
Filed November 22, 1929. Serial No. 292,765. PUBLISHED JANUARY 14, 1930. Class 35.

269,173. RAZOR BLADES. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed November 22, 1929. Serial No. 292,725. PUBLISHED JANUARY 14, 1930. Class 28.

269,174. BLADES AND CUTTERS FOR MILLING, TURNING, AND THE LIKE METAL-WORKING MACHINERY. THE HAYNES STELLITE COMPANY, Kokomo, Ind.
Filed November 18, 1929. Serial No. 292,603. PUBLISHED JANUARY 14, 1930. Class 28.

269,175. ANEROID BAROMETERS. WATERBURY CLOCK COMPANY, Waterbury, Conn.
Filed November 14, 1929. Serial No. 292,427. PUBLISHED JANUARY 14, 1930. Class 26.

269,176. EARTH-BORING BITS FOR USE IN THE GAS AND OIL INDUSTRY AND CORE-WORKING BARRELS FOR USE IN THE DRILLING AND OPERATION OF WELLS. UNIVERSAL ENGINEERING COMPANY, Los Angeles, Calif.
Filed November 11, 1929. Serial No. 292,301. PUBLISHED JANUARY 14, 1930. Class 28.

269,177. MATCHES. MATCH IMPORT COMPANY, New York, N. Y.
Filed November 9, 1929. Serial No. 292,219. PUBLISHED JANUARY 14, 1930. Class 9.

269,178. MEDICINE IN LIQUID FORM USED AS A NERVE SEDATIVE. WILLIAM H. ROHER, INC., Philadelphia, Pa.
Filed October 30, 1929. Serial No. 291,790. PUBLISHED JANUARY 7, 1930. Class 6.

269,179. WOMEN'S AND CHILDREN'S UNDERWEAR OF WOVEN SILK FABRIC. RICE-KLEIN CO., Los Angeles, Calif.
Filed October 30, 1929. Serial No. 291,789. PUBLISHED DECEMBER 31, 1929. Class 39.

269,180. WHISKEY. A. OVERHOLT & COMPANY, Broad Ford, Pa.
Filed October 30, 1929. Serial No. 291,785. PUBLISHED JANUARY 14, 1930. Class 49.

269,181. NONALCOHOLIC, CEREAL, MALT BEVERAGES. PETER DOELGER BREWING CORPORATION, New York, N. Y.
Filed October 26, 1929. Serial No. 291,609. PUBLISHED JANUARY 14, 1930. Class 48.

269,182. SELF-MEASURING OIL PUMPS, SUCH AS USED TO SUPPLY DRIVERS AT OIL AND GAS FILLING STATIONS. ROBERT G. WILSON, doing business as William M. Wilson's Sons, Philadelphia, Pa.
Filed October 18, 1929. Serial No. 291,256. PUBLISHED JANUARY 14, 1930. Class 26.

269,183. SELF-MEASURING GASOLINE PUMPS, SUCH AS USED TO SUPPLY AUTOMOBILE DRIVERS AT OIL AND GAS FILLING STATIONS. ROBERT G. WILSON, doing business as William M. Wilson's Sons, Philadelphia, Pa.
Filed October 18, 1929. Serial No. 291,255. PUBLISHED JANUARY 14, 1930. Class 26.

269,184. COMBINED ADDING AND LISTING MACHINES. BRENNAN ADDING MACHINE COMPANY, Chicago, Ill.
Filed October 18, 1929. Serial No. 291,201. PUBLISHED JANUARY 14, 1930. Class 26.

269,185. MEN'S SUITS. CURLEE CLOTHING COMPANY, St. Louis, Mo.
Filed October 16, 1929. Serial No. 291,118. PUBLISHED JANUARY 7, 1930. Class 39.

269,186. SHIRTS, WINDBREAKERS, PAJAMAS, ETC. PREFERRED SHIRT CO., INC., New York, N. Y.
Filed October 10, 1929. Serial No. 290,907. PUBLISHED DECEMBER 31, 1929. Class 39.

269,187. RUBBER BELTING AND HOSE. NEW YORK RUBBER CORPORATION, Beacon, N. Y.
Filed October 8, 1929. Serial No. 290,789. PUBLISHED JANUARY 14, 1930. Class 35.

269,188. MECHANICAL FAN FOR CLEANING COTTON. THE BOARDMAN COMPANY, Oklahoma City, Okla.
Filed October 3, 1929. Serial No. 290,540. PUBLISHED JANUARY 14, 1930. Class 23.

269,189. MEDICATED CIGARETTES FOR THE TREATMENT OF THE RESPIRATORY PASSAGES. LOUIS JULIEN PIOT, Paris, France.
Filed August 13, 1929. Serial No. 288,479. PUBLISHED DECEMBER 17, 1929. Class 6.

269,190. APPARATUS AND PARTS THEREOF FOR THE SYNCHRONOUS PRODUCTION AND REPRODUCTION OF TALKING MOTION PICTURES OR OTHER SOUND AND LIGHT EFFECTS, AND TALKING MOTION-PICTURE FILMS. POWERS CINEPHONE EQUIPMENT CORPORATION, New York, N. Y.
Filed July 31, 1929. Serial No. 287,936. PUBLISHED JANUARY 7, 1930. Class 26.

269,191. APPARATUS AND PARTS THEREOF FOR THE SYNCHRONOUS PRODUCTION AND REPRODUCTION OF TALKING MOTION PICTURES OR OTHER SOUND AND LIGHT EFFECTS. POWERS CINEPHONE EQUIPMENT CORPORATION, New York, N. Y.
Filed July 31, 1929. Serial No. 287,934. PUBLISHED JANUARY 7, 1930. Class 26.

269,192. GIN MADE FROM JUNIPER BERRIES. DR. HERBERT SCHLICHTE, doing business as H. W. Schlichte, Steinhagen, Germany.
Filed June 8, 1929. Serial No. 285,304. PUBLISHED JANUARY 14, 1930. Class 49.

269,193. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. CLAIRE PARFUMEUR, INC., New York, N. Y., assignor to Evenod Perfumer, Inc., New York, N. Y., a Corporation of New York.
Filed June 5, 1929. Serial No. 285,067. PUBLISHED AUGUST 6, 1929. Class 6.

TRADE-MARK REGISTRATIONS RENEWED

34,042. CARPETS. Registered January 16, 1900. E. S. HIGGINS CARPET COMPANY. Renewed January 16, 1930, to Bigelow-Sanford Carpet Co., Inc., New York, N. Y., a Corporation of Massachusetts, assignee by mesne assignments.

73,827. PARTLY-PREPARED STRAW AND PARTLY-PREPARED CHIP. Registered May 25, 1909. T. LYE & SONS. Renewed May 25, 1929, to Ernest B. Lye, doing business as T. Lye & Sons, Luton, England, successor.

73,884. STRAW PLAIT AND CHIP PLAIT. Registered May 25, 1909. T. LYE & SONS. Renewed May 25, 1929, to Ernest B. Lye, doing business as T. Lye & Sons, Luton, England, successor.

74,470. METAL-CONDUCTOR PIPE ELBOWS. Registered July 13, 1909. KLAUER MANUFACTURING COMPANY, Dubuque, Iowa, a Corporation of Iowa. Renewed July 13, 1929.

75,425. A REMEDY FOR RHEUMATISM. Registered October 5, 1909. DR. CHAS. BEZANSON & CO., Guthrie, Okla. Renewed October 5, 1929, to Ko-Cin-Ko Co., Oklahoma City, Okla., an Incorporated Trust Estate of Oklahoma, successor.

75,597. TOILET PREPARATIONS. Registered October 26, 1909. THE C. B. WOODWORTH SONS CO., Rochester, N. Y. Renewed October 26, 1929, to Bourjois, Inc., New York, N. Y., a Corporation of New York, by mergers and changes of name.

75,966. SKINS AND FURS. Registered November 30, 1909. RICHARD LINDNER. Renewed November 30, 1929, to Richard Lindner, Leipzig, Germany, a Partnership, successor.

76,039. CERTAIN KNIVES AND TOOLS. Registered December 7, 1909. SNELL & ATHERTON INCORPORATED. Renewed December 7, 1929, to Snell-Atherton-Norcross Co. Inc., Brockton, Mass., a Corporation of Massachusetts, successor.

76,065. OVERSHIRTS, OVERALLS, PANTS, AND COATS. Registered December 14, 1909. L. S. BAUMGARDNER & COMPANY. Renewed December 14, 1929, to Baumgardner & Co., Toledo, Ohio, a Partnership, successor.

76,242. RAZORS, SCISSORS, SHEARS, AND TABLE CUTLERY. Registered December 28, 1909. WESTER BROS. Renewed December 28, 1929, to Wester Bros., New York, N. Y., a Firm, successor.

76,312. CERTAIN STOVES AND HEATING APPARATUS. Registered January 4, 1910. SOUTHERN QUEEN RANGE MFG. CO. Renewed January 4, 1930, to Mountain City Stove & Roofing Co., Chattanooga, Tenn., a Corporation of Tennessee, successor.

76,713. CERTAIN SURGICAL APPLIANCES. Registered February 8, 1910. CHARLES CLUTHE, New York, N. Y. Renewed February 8, 1930, to Frederick W. Cluthe and Alfred Cluthe, doing business as Chas. Cluthe & Sons, Bloomfield, N. J., assignee.

76,881. SHELLED ALMONDS. Registered February 22, 1910. HABICHT, BRAUN & CO., New York, N. Y., a Limited Partnership. Renewed February 22, 1930.

76,882. SHELLED ALMONDS. Registered February 22, 1910. HABICHT, BRAUN & CO., New York, N. Y., a Limited Partnership. Renewed February 22, 1930.

76,883. SHELLED ALMONDS. Registered February 22, 1910. HABICHT, BRAUN & CO., New York, N. Y., a Limited Partnership. Renewed February 22, 1930.

76,884. SHELLED ALMONDS. Registered February 22, 1910. HABICHT, BRAUN & CO., New York, N. Y., a Limited Partnership. Renewed February 22, 1930.

76,935. SHELLED ALMONDS. Registered February 22, 1910. HABICHT, BRAUN & CO., New York, N. Y., a Limited Partnership. Renewed February 22, 1930.

76,977. BOOKS OF FICTION PUBLISHED SERIALLY. Registered March 1, 1910. LOTHROP, LEE & SHEPARD COMPANY. Renewed March 1, 1930, to Lothrop, Lee & Shepard Co., Boston, Mass., a Corporation of Massachusetts, assignee.

77,056. MEN'S GARTERS. Registered March 8, 1910. PIONEER SUSPENDER COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 8, 1930.

77,154. PERFUMES, TOILET WATERS, FACE POWDERS, AND SACHET POWDERS. Registered March 15, 1910. THE C. B. WOODWORTH SONS CO., Rochester, N. Y. Renewed March 15, 1930, to Bourjois, Inc., New York, N. Y., a Corporation of New York, by mergers and changes of name.

77,429. CANNED FRUITS AND VEGETABLES. Registered April 5, 1910. THE BURT OLNEY CANNING COMPANY, Oneida, N. Y. Renewed April 5, 1930, to New York Canners, Inc., Rochester, N. Y., a Corporation of New York, assignee.

77,966. COCOA. Registered May 17, 1910. SUCHARD S. A., Serrieres, Switzerland. Renewed May 17, 1930, to Suchard Societé Anonyme, Neuchatel, Switzerland, a Corporation of Switzerland.

78,259. IRON AND STEEL CHAINS. Registered May 31, 1910. MILL & MINE SUPPLY COMPANY, Seattle, Wash., a Corporation of Washington. Renewed May 31, 1930.

78,751. CLOCKS AND WATCHES. Registered July 5, 1910. THE WESTERN CLOCK MFG. CO., La Salle, Ill. Renewed July 5, 1930, to Western Clock Company, Peru, Ill., a Corporation of Illinois, assignee.

78,764. COTTONSEED COOKING OIL. Registered July 12, 1910. ARMSTRONG REFINING COMPANY. Renewed July 12, 1930, to Armstrong Packing Company, Dallas, Tex., a Corporation of Texas, assignee by mesne assignments.

78,771. WHEAT FLAKES AND ROLLED OATS. Registered July 12, 1910. THE BOZEMAN MILLING COMPANY, Bozeman, Mont. Renewed July 12, 1930, to Montana Flour Mills Company, Great Falls, Harlowton, Lewiston, and Bozeman, Mont., a Corporation of Montana, assignee.

79,183. CHEMICALS AND PHARMACEUTICAL PREPARATIONS. Registered August 16, 1910. THE BACORN COMPANY, Elmira and Elmira Heights, N. Y., a Corporation of New York. Renewed August 16, 1930.

79,240. STOVES AND RANGES FOR COOKING AND HEATING. Registered August 16, 1910. THE UNION STOVE WORKS, Peekskill and New York, N. Y., a Corporation of New York. Renewed August 16, 1930.

79,508. WIRE ROPE. Registered September 13, 1910. MILL & MINE SUPPLY COMPANY, Seattle, Wash., a Corporation of Washington. Renewed September 13, 1930.

LABELS

REGISTERED MARCH 25, 1930

37,277.—*Title:* FLAT WALL PAINT. For Ready-Mixed Paints. E. C. BENSON, doing business as Ray-on Paint & Color Co., Chicago, Ill. Published February 5, 1930.

37,278.—*Title:* BEN HUR GENERAL PURPOSE DRY BATTERY. For Electric Batteries. BURGESS BATTERY COMPANY, Madison, Wis. Published August 8, 1929.

37,279.—*Title:* AUTO COLD TABLETS. For Tablets for Treatment of Coughs and Colds. BEATRICE H. CRAWFORD, Phoenix, Ariz. Published February 1, 1930.

37,280.—*Title:* "TOS-KA." For Cake. SOPHIE C. CUBBISON, Los Angeles, Calif. Published January 1, 1930.

37,281.—*Title:* DEXAID—A. For Eczema Medicine. DEDENBACH CHEMICAL COMPANY, Detroit, Mich. Published February 25, 1930.

37,282.—*Title:* DEXAID—B. For Eczema Medicine. DEDENBACH CHEMICAL COMPANY, Detroit, Mich. Published February 25, 1930.

37,283.—*Title:* ELLIOTT'S BEST. For Ready-Mixed Paints. ELLIOTT VARNISH CO., Chicago, Ill. Published December 31, 1929.

37,284.—*Title:* FORT HOWARD. For Toilet Paper. FORT HOWARD PAPER COMPANY, Green Bay, Wis. Published January 15, 1930.

37,285.—*Title:* WAXED BAKING DISHES. For Waxed-Paper Dishes. HARVEY PAPER PRODUCTS CO., Sturgis, Mich. Published February 19, 1930.

37,286.—*Title:* HOWEY ORANGE JUICE. For Orange Juice. HOWEY-IN-THE-HILLS JUICE COMPANY, Howey-in-the-Hills, Fla. Published December 23, 1929.

37,287.—*Title:* RAINBOW SLIP COVERS. For Slip Covers. THE S. E. HYMAN CO., Fremont, Ohio. Published January 30, 1930.

37,288.—*Title:* AMERICAN TRIBUTE. For Cigars. F. W. LIEDTKE, Philadelphia, Pa. Published February 8, 1930.

37,289.—*Title:* PULASKI. For Malt Syrup. MILWAUKEE MALT SYRUP COMPANY, Milwaukee, Wis. Published February 14, 1930.

37,290.—*Title:* SQUARE-MEAL. For Health-Food Mixture of Dried Fruits and Nuts. HARRY W. NEWCOMB, Arlington, Mass. Published December 27, 1929.

37,291.—*Title:* BUTTER NUT. For Bread. SCHULZE BAKING COMPANY, Chicago, Ill., and Kansas City, Mo. Published April 15, 1901.

37,292.—*Title:* THIN CHOCOLATES. For Candy. FRANK G. SHATTUCK CO., doing business as Schrafft's, New York, N. Y. Published January 20, 1930.

PRINTS

REGISTERED MARCH 25, 1930

12,457.—*Title:* FASHIONS OF THE HOUR. For Dresses, Coats, Ensembles for Misses and Women. L. BAMBERGER & CO., Newark, N. J. Published November 11, 1929.

12,458.—*Title:* HEALTHY AND MERRY IN THEIR STORY-BOOK WORLD—THE CHILDREN OF MR. AND MRS. P. A. B. WIDENER II. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published February 10, 1930.

12,459.—*Title:* TO THOROUGHLY CLEANSE AND DEODORIZE. For a Preparation and a Brush for Cleansing and Purifying Artificial Teeth. DEPEND LABORATORIES, Portland, Me. Published January 15, 1930.

12,460.—*Title:* RE-TUBE WITH MAJESTIC TUBES. For Radiotubes. GRIGSBY-GRUNOW COMPANY, Chicago, Ill. Published January 6, 1930.

12,461.—*Title:* WAXED PAPER BAKING CUPS. For Waxed-Paper Dishes. HARVEY PAPER PRODUCTS CO., Sturgis, Mich. Published February 19, 1930.

12,462.—*Title:* MUSEBECK FLEXIBLE DOUBLE-ARCH WEAR STRAIGHT SHOES. For Shoes and Insoles for Shoes. MUSEBECK SHOE COMPANY, Danville, Ill. Published January 15, 1930.

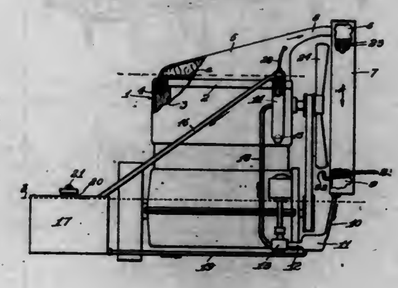
12,463.—*Title:* FRIENDSHIP SWEETS. For Candy. CAROLINE E. PITTENGER, Somerville, N. J. Published January 31, 1930.

12,464.—*Title:* WISE BOW. For Neckties. BENJAMIN WEISSBERG, Philadelphia, Pa. Published February 21, 1930.

REISSUES

MARCH 25, 1930

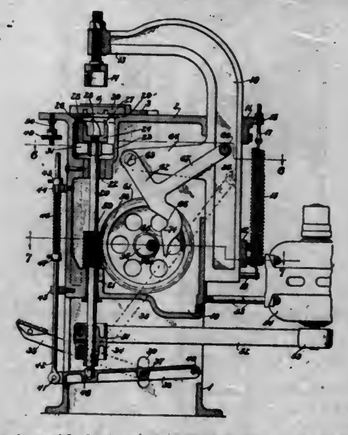
17,627. ENGINE-COOLING SYSTEM. LESTER P. BARLOW, Detroit, Mich. Filed Mar. 18, 1929. Serial No. 348,101. Original No. 1,632,581, dated June 14, 1927, Serial No. 127,257, filed Aug. 5, 1926. 17 Claims. (Cl. 123—174.)



1. In an internal combustion engine vapor cooling system which is open continuously to the atmosphere and which operates at all times at atmospheric pressure, the combination with a cylinder jacket having a steam space above the same, of means providing a circuit whereby a cooling liquid may be continuously circulated without passing through said jacket, and means included in said circuit and connected with said jacket whereby a predetermined liquid level may be maintained in the jacket by supplying liquid thereto from the circuit in direct proportion to the amounts going off as steam in the jacket.

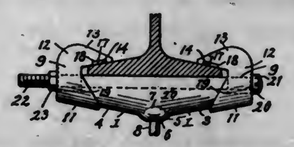
17,628. DEVICE FOR MAKING RING JOINTS. WILLIAM L. EVANS, Washington, Ind. Filed Feb. 14, 1929. Serial No. 339,968. Original No. 1,617,622, dated Feb. 15, 1927, Serial No. 52,445, filed Aug. 25, 1925. 21 Claims. (Cl. 144—2.)

1. In a machine of the class described, the combination of a table, a vertically movable bar having a head overhanging the table, a pedal having a connection with said bar to move the latter downwardly when said pedal is depressed, a power-driven shaft, means for temporarily connecting said shaft to the bar to forcibly urge the latter downwardly, a second pedal, and means connecting



the same to said first-mentioned means to establish the temporary connection between the shaft and the bar when said second pedal is depressed.

17,629. I-BEAM CLAMP. WILLIAM G. WEBB, East Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a Corporation of Ohio. Filed Jan. 18, 1930. Serial No. 420,619. Original No. 1,658,956, dated Feb. 14, 1928, Serial No. 174,609, filed Mar. 11, 1927. 9 Claims. (Cl. 104—111.)

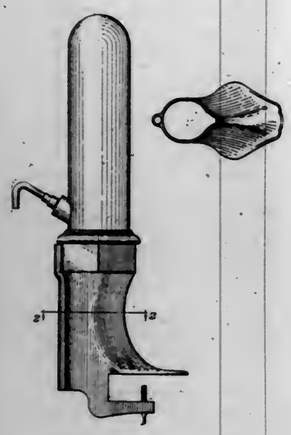


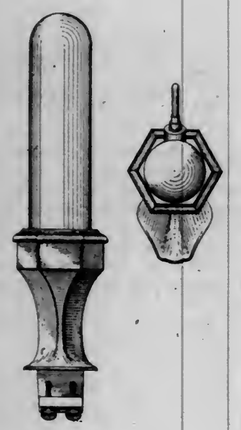
1. A clamp for flanged beams comprising a pair of clips having oppositely inclined portions adapted to have wedging engagement with opposite flanges of a beam, a hanger bar supported by said clips and engageable with the bottom of the beam, said clips being capable of movement within the extremities of said bar, and means for drawing said clips together to grip the flanges of the beam between said inclined portions of the clips and said hanger bar.

DESIGNS

MARCH 25, 1930

80,768. BEVERAGE DISPENSER. LEWIS G. AMES and RICHARD C. BROWNE, Rochester, N. Y., assignors to Richardson Corporation, Rochester, N. Y., a Corporation of New York. Filed Nov. 27, 1929. Serial No. 33,574. Term of patent 14 years.





The ornamental design for a beverage dispenser, as shown.

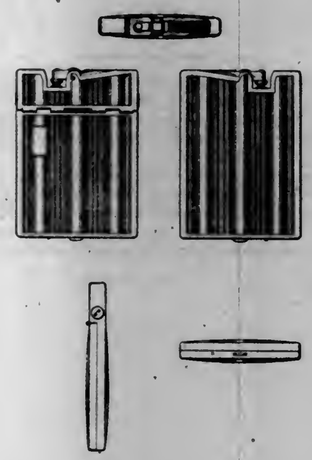
80,769. DAVENPORT OR LIKE ARTICLE. OTTO ANDREAS ANDERSON, Chicago, Ill., assignor to Zangerle & Peterson Company, a Corporation of Illinois. Filed Dec. 4, 1929. Serial No. 33,644. Term of patent 3½ years.





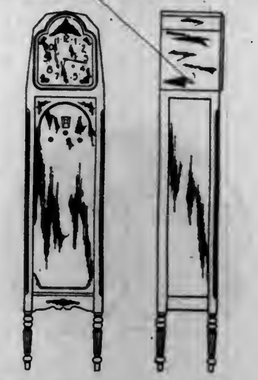
The ornamental design for a davenport or like article, as shown and described.

80,770. COMBINED CIGARETTE CONTAINER AND PYROPHORIC LIGHTER. LOUIS V. ARONSON, Newark, N. J., assignor to Art Metal Works, Inc., a Corporation of New Jersey. Filed Jan. 14, 1930. Serial No. 34,126. Term of patent 14 years.



The ornamental design for a combined cigarette container and pyrophoric lighter substantially as shown.

80,771. RADIO CLOCK CABINET. MOSES K. BERNSTEIN, San Francisco, Calif. Filed Dec. 20, 1929. Serial No. 33,872. Term of patent 3½ years.



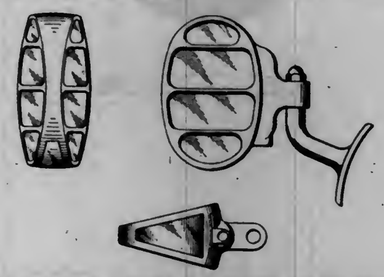
The ornamental design for a radio clock cabinet substantially as shown.

80,772. LIGHTING-FIXTURE HEAD. JACOB H. BLITZER, New York, N. Y., assignor to Lightolier Corporation, New York, N. Y., a Corporation of New York. Filed May 24, 1929. Serial No. 31,864. Term of patent 3½ years.



The ornamental design for a lighting fixture head as shown.

80,773. VEHICLE LIGHT. BORNETT L. BOBROFF, Racine, Wis. Filed Dec. 16, 1929. Serial No. 33,794. Term of patent 14 years.



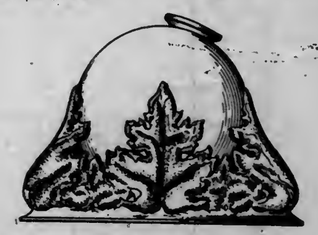
The ornamental design for a vehicle light, as shown.

80,774. CABINET FOR RADIO RECEIVING APPARATUS. CHARLES S. BRADLEY, Philadelphia, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 7, 1929. Serial No. 33,358. Term of patent 7 years.



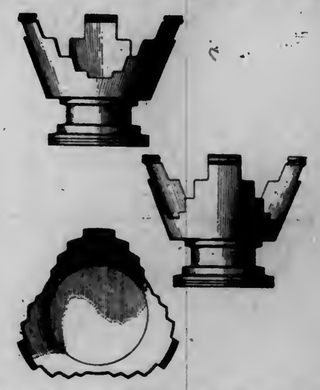
The ornamental design for a cabinet for radio receiving apparatus, as shown.

80,775. PEN-HOLDING DEVICE. GLEN BUCK, Evanston, Ill. Filed Nov. 15, 1929. Serial No. 33,461. Term of patent 14 years.



The ornamental design for a pen holding device as shown and described.

80,776. DISH HOLDER. HERMAN CAREW, Easton, Pa., assignor to Individual Drinking Cup Company, Inc., Easton, Pa., a Corporation of Pennsylvania. Filed Jan. 6, 1930. Serial No. 34,028. Term of patent 14 years.



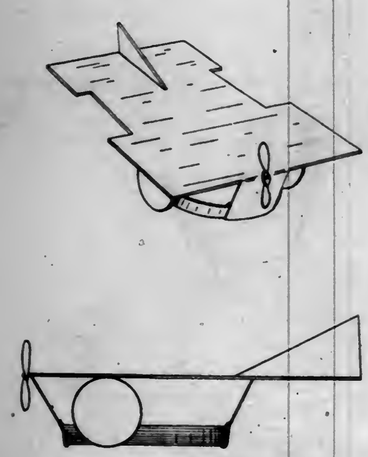
The ornamental design for a dish holder as shown.

80,777. JAR OR SIMILAR CONTAINER. JAMES A. CARR, San Francisco, Calif., assignor to Owl Drug Company, San Francisco, Calif., a Corporation of Nevada. Filed Nov. 7, 1928. Serial No. 28,792. Term of patent 3½ years.



The ornamental design for a jar or similar container substantially as shown.

80,778. HAT. DALLAS CASH, Akron, Ohio. Filed June 4, 1929. Serial No. 31,548. Term of patent 3½ years.



The ornamental design for a hat as shown.

80,779. COMBINATION TRAY AND CANDLE HOLDER. DOLLY CONDON, Grand Rapids, Mich. Filed Oct. 10, 1929. Serial No. No. 32,992. Term of patent 3½ years.



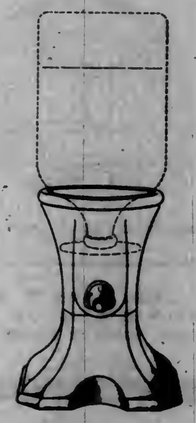
The ornamental design for a combination tray and candle holder as shown.

80,780. BOX COVER OR SIMILAR ARTICLE OF MANUFACTURE. JOHN ARTHUR COBBETT, Honolulu, Territory of Hawaii, assignor to Robert Love Estate, Limited, Honolulu, Territory of Hawaii, a Corporation of Hawaii. Filed Dec. 12, 1929. Serial No. 33,768. Term of patent 14 years.



The ornamental design for a box cover or similar article of manufacture, as shown.

80,781. BEVERAGE-DISPENSING APPARATUS. CHRISTOPHER M. CORDLEY, New Canaan, Conn., assignor to Cordley & Hayes, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1929. Serial No. 30,169. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.

80,782. CHAIR. FRANK DERSKI, New York, N. Y. Filed Jan. 6, 1930. Serial No. 34,030. Term of patent 3½ years.



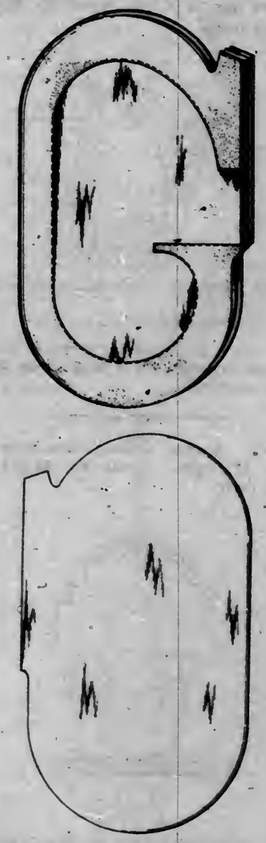
The ornamental design for a chair, as shown.

80,783. PLATE. GEORGE ELLIS, Trenton, N. J., assignor to Scammell China Co., Trenton, N. J. Filed Dec. 9, 1929. Serial No. 33,724. Term of patent 14 years.



The ornamental design for a plate, as shown.

80,784. POCKETBOOK. LOUIS FLAXMAN, Baltimore, Md. Filed Aug. 1, 1929. Serial No. 32,262. Term of patent 3½ years.



The ornamental design for a pocketbook, as shown.

80,785. SPECTACLE FRAME. JOSEPH GASPARI, New York, N. Y. Filed Dec. 27, 1929. Serial No. 33,958. Term of patent 3½ years.



The ornamental design for a spectacle frame, substantially as shown.

80,786. RING SHANK. JOSEPH GRANAT, San Francisco, Calif. Filed Dec. 27, 1929. Serial No. 33,941. Term of patent 3½ years.



The ornamental design for a ring shank substantially as shown and described.

80,787. RING. JOSEPH GRANAT, San Francisco, Calif. Filed Dec. 27, 1929. Serial No. 33,942. Term of patent 3½ years.



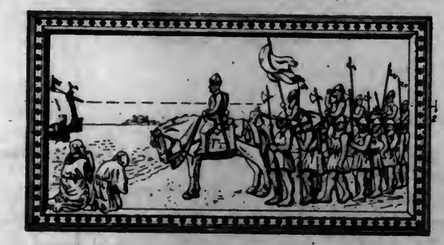
The ornamental design for a ring substantially as shown.

80,788. RING. JOSEPH GRANAT, San Francisco, Calif. Filed Dec. 27, 1929. Serial No. 33,943. Term of patent 3½ years.



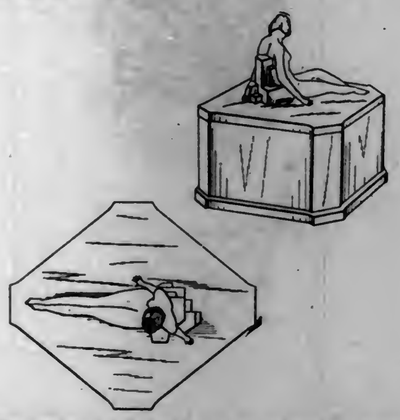
The ornamental design for a ring substantially as shown.

80,789. WALL PANEL. EDWIN T. GRAY, New York, N. Y., assignor to W. H. S. LLOYD CO., New York, N. Y. Filed Oct. 15, 1929. Serial No. 33,039. Term of patent 3½ years.



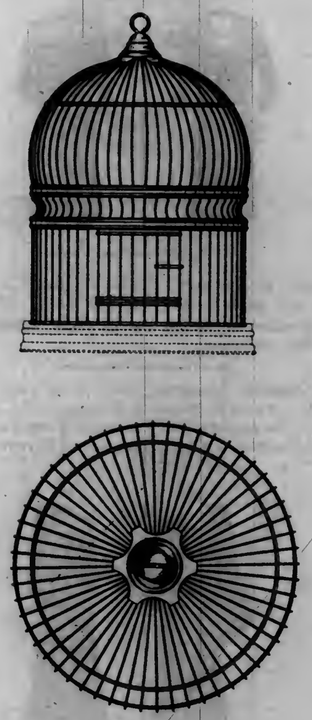
The ornamental design for a wall panel, as shown.

80,790. BOX OR SIMILAR RECEPTACLE. KENNETH R. HALEY, Beaver, Pa., assignor to The Phoenix Glass Company, Monaca, Pa., a Corporation of West Virginia. Filed Nov. 30, 1929. Serial No. 33,591. Term of patent 3½ years.



The ornamental design for a box or similar receptacle, as shown.

80,791. BIRD-CAGE BODY. GEORGE C. HOEFLER, New Haven, Conn., assignor to The Andrew B. Hendryx Company, New Haven, Conn., a Corporation of Connecticut. Filed June 18, 1929. Serial No. 31,660. Term of patent 14 years.

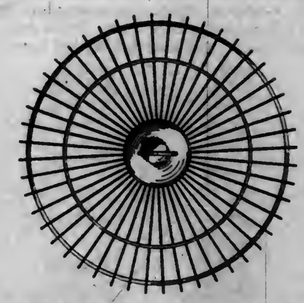


The ornamental design for a bird cage body substantially as shown.

80,792. BIRD-CAGE BODY. GEORGE C. HOEFLER, New Haven, Conn., assignor to The Andrew B. Hendryx Company, New Haven, Conn., a Corporation of Connecticut. Filed June 18, 1929. Serial No. 31,662. Term of patent 14 years.

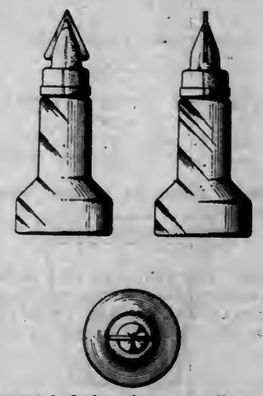


80,792—Continued.



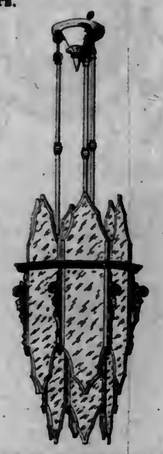
The ornamental design for a bird cage body substantially as shown.

80,793. MUCILAGE DISPENSER. LEO S. KOSITCHEK, Chicago, Ill., assignor to Columbia Fastener Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 11, 1929. Serial No. 33,747. Term of patent 3½ years.



The ornamental design for a mucilage dispenser, as shown.

80,794. LIGHT FIXTURE. SAMUEL KRAMER, New York, N. Y. Filed Nov. 16, 1929. Serial No. 33,470. Term of patent 3½ years.



The ornamental design for a light fixture substantially as shown.

80,795. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, New York, N. Y., a Corporation of New York. Filed Aug. 28, 1929. Serial No. 32,596. Term of patent 3½ years.



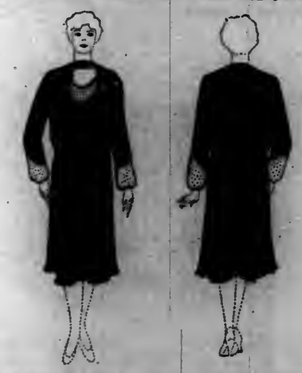
The ornamental design for a dress substantially as shown and described.

80,796. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 10, 1930. Serial No. 34,071. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

80,797. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 10, 1930. Serial No. 34,074. Term of patent 3½ years.



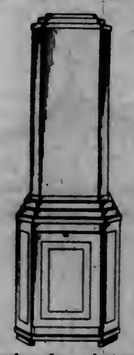
The ornamental design for a dress substantially as shown and described.

80,798. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 10, 1930. Serial No. 34,075. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

80,799. HOT-WATER HEATER. HERBERT J. LONG, New Brunswick, N. J. Filed Jan. 22, 1930. Serial No. 34,224. Term of patent 7 years.



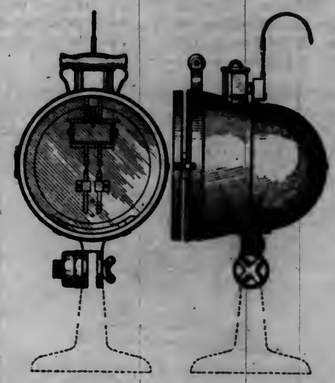
The ornamental design for a hot-water heater as shown and described.

80,800. OIL-CHANGE INDICATOR FOR MOTOR VEHICLES. WILLIAM E. OEHRI, Buffalo, N. Y. Filed Jan. 4, 1930. Serial No. 34,019. Term of patent 3½ years.



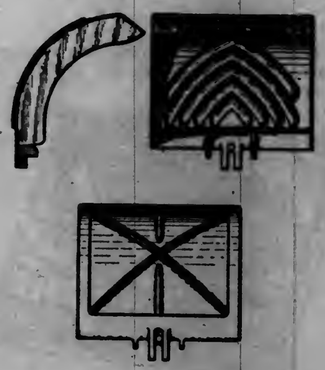
The ornamental design for an oil change indicator for motor vehicles, as shown.

80,801. ARC HEALTH LAMP. MICHAEL W. MCARDLE, Chicago, Ill. Filed June 17, 1929. Serial No. 31,733. Term of patent 3½ years.



The ornamental design for an arc health lamp, as shown.

80,802. FLUE CAP. JOSEPH A. MCCARTHY, Richmond Hill, N. Y. Filed Jan. 25, 1930. Serial No. 34,290. Term of patent 7 years.



The ornamental design for a flue cap, as shown.

80,803. DOLL. DOLLIE MCNEIL, La Fayette, Calif. Filed Apr. 29, 1929. Serial No. 31,038. Term of patent 7 years.



The ornamental design for a doll as shown.

80,804. EGG-BEATER BOWL. WILLIAM F. NEWBERRY, Montclair, N. J., assignor to F. W. Woolworth Co., New York, N. Y., a Corporation of New York. Filed Jan. 15, 1930. Serial No. 34,134. Term of patent 7 years.



The ornamental design for an eggbeater bowl, substantially as shown.

80,805. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 28, 1930. Serial No. 34,252. Term of patent 7 years.



The ornamental design for a shoe buckle as shown.

80,806. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 23, 1930. Serial No. 34,253. Term of patent 7 years.



The ornamental design for a shoe buckle as shown.

80,807. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 23, 1930. Serial No. 34,254. Term of patent 7 years.



The ornamental design for a shoe buckle as shown.

80,808. BOTTLE. WILLIAM R. ROOT, Terre Haute, Ind. Filed Dec. 28, 1929. Serial No. 33,968. Term of patent 14 years.



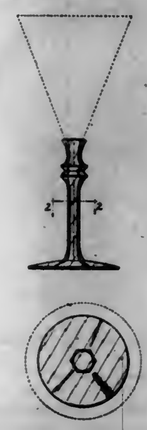
The ornamental design for a bottle as shown.

80,809. BABY'S SHOE. KARL SCHAFFNER, Nuremberg, Germany, assignor to the Firm Vereinigte Schuhfabriken Berneis-Wessels A. G., Augsburg-Oberhausen, Germany. Filed July 8, 1929, Serial No. 31,961, and in Germany Apr. 10, 1929. Term of patent 3½ years.



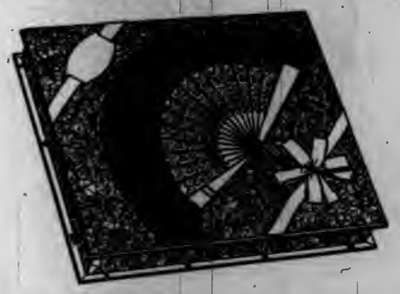
The ornamental design for a baby's shoe, as shown.

80,810. GLASS GOBLET OR SIMILAR ARTICLE. EDWARD J. SCHAUB, Wheeling, W. Va., assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Jan. 2, 1930. Serial No. 33,997. Term of patent 7 years.



The ornamental design for a glass goblet or similar article, substantially as shown.

80,811. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed Jan. 27, 1930. Serial No. 34,301. Term of patent 14 years.



The ornamental design for a box, as shown.

80,812. EXERCISER CASING. WILLIAM E. SHARP, Chicago, Ill. Filed Dec. 12, 1928. Serial No. 29,242. Term of patent 14 years.



The ornamental design for an exerciser casing, as shown.

80,813. ASH TRAY. MORRIS SUSSMAN, New York, N. Y. Filed Mar. 29, 1928. Serial No. 26,056. Term of patent 3½ years.



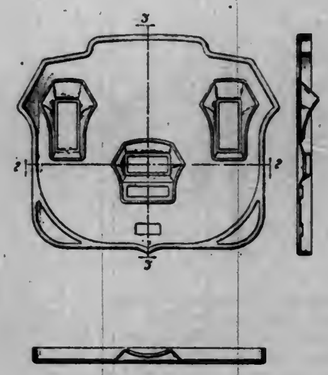
The ornamental design for an ash tray, as shown and described.

80,814. PORTABLE ELECTRIC LAMP. HARRY F. THURBER and FREDERICK E. GREENE, New Haven, Conn., assignors to The Greist Manufacturing Company, New Haven, Conn., a Corporation of Connecticut. Filed May 29, 1929. Serial No. 31,468. Term of patent 7 years.



The ornamental design for a portable electric lamp substantially as shown.

80,815. ESCUTCHEON PLATE FOR AUTOMOBILE INSTRUMENT BOARDS. CORNELIUS W. VAN RANST, Auburn, Ind., assignor, by mesne assignments, to Manning & Co., Chicago, Ill., a Corporation of Illinois. Filed June 8, 1929. Serial No. 31,599. Term of patent 7 years.



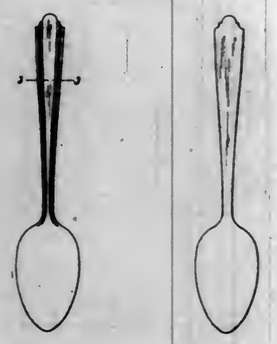
The ornamental design for an escutcheon plate for automobile instrument boards substantially as shown.

80,816. COMBINATION CIGARETTE HOLDER AND ASH TRAY OR THE LIKE ARTICLE. ARTHUR VON FRANKENBERG, New York, N. Y. Filed Dec. 28, 1929. Serial No. 33,892. Term of patent 7 years.



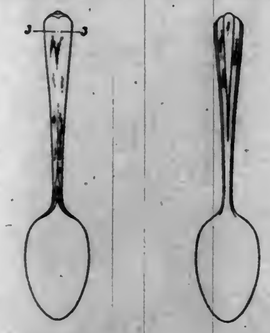
The ornamental design for a combination cigarette holder and ash tray or the like article, substantially as shown.

80,817. SPOON OR SIMILAR ARTICLE. WILLIAM S. WARREN, Meriden, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a Corporation. Filed Nov. 23, 1929. Serial No. 33,527. Term of patent 14 years.



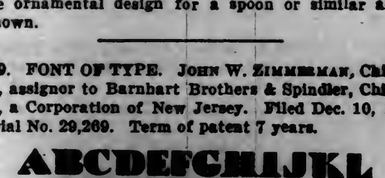
The ornamental design for a spoon or similar article as shown.

80,818. SPOON OR SIMILAR ARTICLE. WILLIAM S. WARREN, Meriden, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a Corporation. Filed Jan. 8, 1930. Serial No. 34,055. Term of patent 14 years.



The ornamental design for a spoon or similar article as shown.

80,819. FONT OF TYPE. JOHN W. ZIMMERMAN, Chicago, Ill., assignor to Barnhart Brothers & Spindler, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 10, 1928. Serial No. 29,269. Term of patent 7 years.

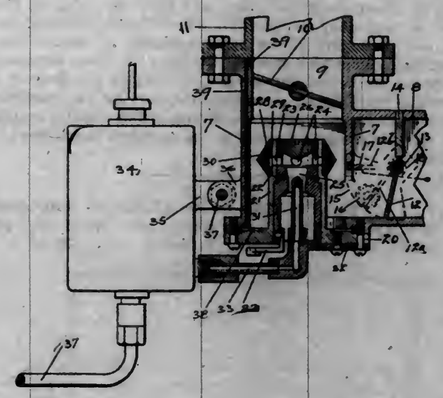


The ornamental design for a font of type, as shown.

PATENTS

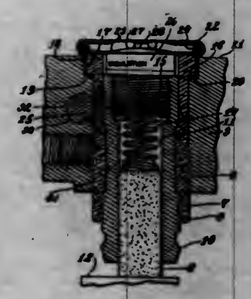
GRANTED MARCH 25, 1930

1,751,461. CARBURETOR. ALBERT D. AUSTIN, Portland, Oreg. Filed Aug. 26, 1926. Serial No. 131,788. 8 Claims. (Cl. 261—41.)



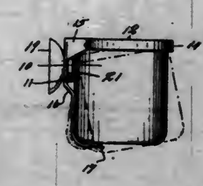
1. In a carburetor: a casing; a head within said casing open to the atmosphere, and having ports therein; a valve rotatable within said head, and having ports to communicate with said former ports in the head; a distributing cap upon said head in communication with coacting ports in said valve and in said head; a Venturi tube within said head; and a nozzle within said Venturi tube.

1,751,462. BRUSH HOLDER FOR ELECTRIC TOOLS. JAMES NELSON BAKER, Baltimore County, Md., assignor to The Black and Decker Manufacturing Company, Towson Heights, Md., a Corporation of Maryland. Filed Mar. 13, 1928. Serial No. 261,210. 7 Claims. (Cl. 171—324.)



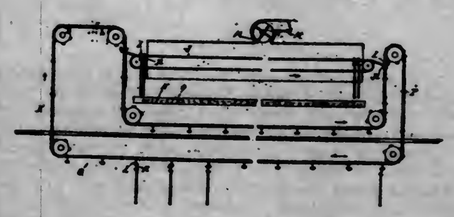
1. The combination in a portable electric tool of an electric motor, brushes, brush holders of circular cross section, a casing and a set screw seated in the casing substantially tangent to the brush holder so that the threads of the set screw bite into the side of the brush holder casing.

1,751,463. HANDY ASH TRAY AND EMERGENCY DRINKING CUP. JOHN CLAYTON BACKUS and WILLIAM L. PIEROTTI, Smethport, Pa.; said Pierotti assignor to said Backus. Filed Aug. 23, 1928. Serial No. 301,600. 3 Claims. (Cl. 206—19.5.)



1. An article of the character described including a receptacle, a bracket with which the receptacle is detachably engaged, the bracket being outwardly offset away from the receptacle at its upper portion, the lower portion of the bracket fitting against the receptacle and said bracket having a vertically extending key hole slot intersecting the offset portion, and a bracket supporting device detachably engageable with the bracket in said slot.

1,751,464. METHOD OF MANUFACTURING LEATHER. WALTER A. BECK, Detroit, Mich., assignor to Leather Makers' Process Company, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1923. Serial No. 649,152. 4 Claims. (Cl. 149—8.)

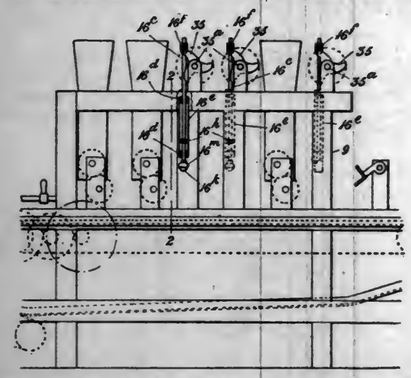


1. In a process for manufacturing leather, the mounting of pairs of separate adhesive coated skins on opposite faces of thin mounting boards to balance the stresses exerted on said boards when drying the skins.

1,751,465. TAMPING DEVICE FOR USE IN MOLDING OPERATIONS. FRANCIS BREEDEN, Birmingham, England, assignor to Automatic Moulding Machines Limited, Birmingham, England. Original application filed Feb. 8, 1928, Serial No. 251,613, and in Great Britain Feb. 8, 1927. Divided and this application filed Mar. 21, 1929. Serial No. 348,891. 3 Claims. (Cl. 22—41.)

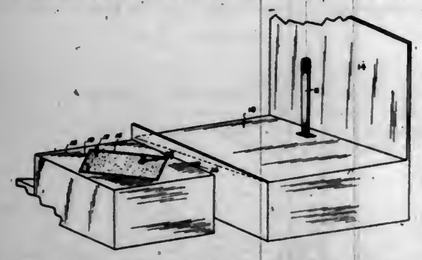
1. A tamping device for use in molding operations comprising a base, a support for the molding box and pattern plate, a pair of standards supported from said base, guideways, formed in said standard, a rectangular frame slidably mounted in said guideways, aligned bearings formed in the upper and lower transverse bars of the frame, ver-

tically disposed tamping tools slidably mounted within said bearings, means for permitting of a limited free rising and falling motion of the tamping tools relatively to the frame and means for effecting a positive lifting at



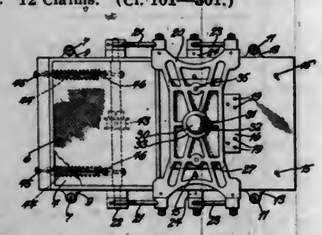
intermittent periods of the frame and tamping tools carried thereby said frame, subsequent to a lifting operation, being permitted to fall under the action of gravity to allow the tamping tools to effect the consolidation of the sand in the molding box.

1,751,466. GAME. EDWARD BREWER, Toronto, Ontario, Canada. Filed Mar. 25, 1929, Serial No. 349,654, and in Canada May 23, 1928. 5 Claims. (Cl. 273—88.)



1. In a game of the class described, a field containing a baseball diamond, a batter disposed thereon, a bat yieldably mounted apart from the diamond, a rotatable arm mounted medially of the diamond, said arm being slotted lengthwise, a block slidably mounted in the slot thereof, a vertical rod rising from said block and attached to the aforesaid batter, means for rotating said arm, and control means associated therewith whereby said arm is released and arrested at points corresponding to the different bases, said control means being actuated by the yielding of the aforesaid bat.

1,751,467. MARKING MACHINE. ARTHUR W. ALTVATER, St. Louis County, Mo. Filed Dec. 13, 1928. Serial No. 325,704. 12 Claims. (Cl. 101—301.)

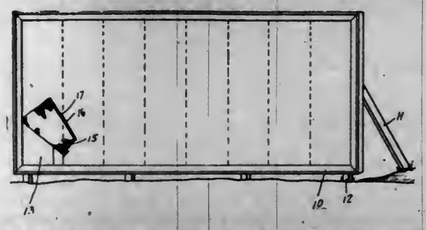


1. A marking device comprising two members, means for supporting a marking device upon one of said members, and a support upon the other member having spaces arranged to receive parts of a fitted shoe upper while another part of the upper is upon said support.

1,751,468. METHOD OF FORMING ARTICLES FROM HEAT-TREATABLE ALUMINUM-BASE ALLOYS. ROBERT S. ARCHER, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1927. Serial No. 242,531. 6 Claims. (Cl. 148—11.5.)

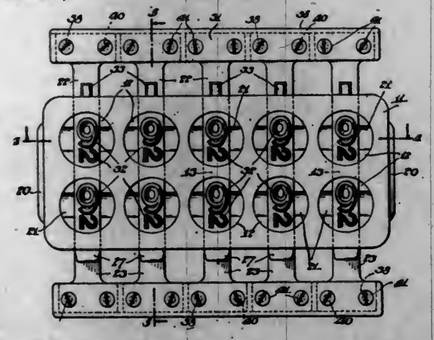
5. The method of forming an article capable of developing increased tensile strength and hardness from an aluminum base alloy containing a solid-solution forming constituent in excess of the amount soluble at normal temperature, comprising heating the alloy to cause increased solution of the soluble constituent, cooling the alloy to a suitable work-forming temperature, forging the partially cooled alloy, and cooling the forged article rapidly enough to retain the major portion of the dissolved constituent in solution.

1,751,469. POSTER-SIGN-REMOVAL PROCESS. WILLIAM REX BELL, Terre Haute, Ind. Filed Mar. 28, 1928. Serial No. 264,144. 2 Claims. (Cl. 216—62.)



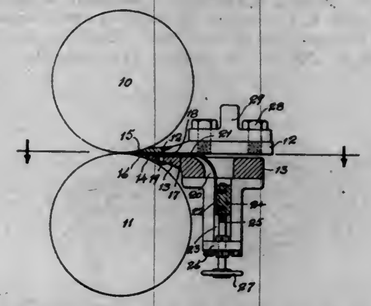
1. A paper posting process comprising detachably securing to a poster sign surface, prior to the posting of paper copy thereon, a fabric sheet material for covering the poster copy receiving surface, applying thereto at successive intervals of desired duration a plurality of successively positioned sheets of paper copy, stripping said fabric sheet from said sign receiving surface for simultaneously removing the superposed accumulated paper copy therefrom, separating the adhering paper copy from the sheet material when removed from the sign surface, and immediately re-applying the paper detached fabric sheet to the sign receiving surface for subsequent use upon the latter.

1,751,470. CORE-FORMING APPARATUS. THOMAS HAROLD BROWN, Lansdowne Borough, Pa., assignor, by mesne assignments, to National Sash Weight Corporation, Baltimore, Md., a Corporation of Maryland. Filed Oct. 26, 1926. Serial No. 144,208. 1 Claim. (Cl. 22—13.)



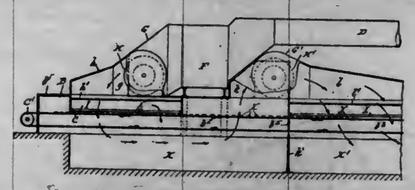
Core-forming apparatus comprising a box having a plurality of sets of core cavities, a plurality of bars, each bar being insertable in a set of cavities, a connector for the bars and forming a handle for the manipulation thereof, a plurality of wedging bars adapted for engaging bars aforesaid for maintaining them in operative position, and a connector for the wedging bars forming a handle for the manipulation of the wedging bars.

1,751,471. CREPING MECHANISM. SAMUEL J. CAMPBELL, Green Bay, Wis., assignor of one-half to Hudson-Sharp Machine Company, Green Bay, Wis., a Corporation of Wisconsin. Filed May 4, 1929. Serial No. 360,456. 10 Claims. (Cl. 92—69.)



10. In creping mechanism, creping devices in the form of closely spaced members affording a channel for the retarded passage of the paper web, one of said members being provided with a plurality of longitudinally extending slots, spring strips rigidly secured at their inner ends within said slots and having their intermediate portions bowed outwardly into said channel and having their free ends outwardly extending through said slots, a bar to which the free ends of the group of spring strips are secured, and means for adjusting said bar to vary the protrusion of said bowed portions into said channel to afford yieldable areas for accommodating variations in the thickness of the paper web.

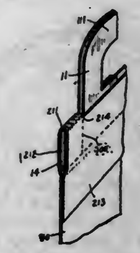
1,751,472. DRYING PROCESS AND APPARATUS. ALBERT A. CRIQUI, Buffalo, N. Y., assignor to Buffalo Forge Company, Buffalo, N. Y. Filed May 1, 1926. Serial No. 105,975. 17 Claims. (Cl. 34—12.)



1. The process of drying articles which are pervious to air, including directing a blast of air at high velocity at close range through and around an article in a direction to hold the articles against displacement on their support and enable their penetration by the blast, changing the direction of the blast of air and decreasing the velocity thereof, and directing the same in said changed direction and at said decreased velocity through and around the article so as to avoid displacing said articles from their support.

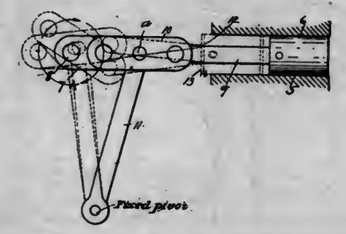
1,751,473. PAPER SHOPPING BAG. WALTER H. DRUBENER, Indianapolis, Ind. Filed Aug. 17, 1928. Serial No. 300,262. 2 Claims. (Cl. 229—54.)

1. A paper shopping bag including a paper bag with its upper end open, and bulky D-shaped handles, each including but a single layer piece of corrugated paper board having the desired resiliency and compressibility therein, said handles being adhesively secured to the opposite sides of the bag at the upper end thereof, the corrugations in the board extending longitudinally of the bag and the base portion of the handle being adhesively secured to the bag side and being longer than the remainder of the handle and extending laterally thereof



to increase the securing surface, the upper end of the bag having an integral hem with a slot therein adjacent the fold, the D-portion of the handle extending through and projecting beyond the slot and the base portion being included within the hem, the lateral extension of the base portion interlocking with the hem fold, and the hem being secured to the upper end of the bag in hem formation and to the handle base.

1,751,474. FLUCTUATING LEVERAGE ENGINE. FRANK L. EAGER, Waterbury, Conn. Filed Apr. 18, 1922. Serial No. 555,374. 5 Claims. (Cl. 74—14.)



1. In combination with the cylinder of an internal combustion engine, a piston, a driven member substantially in line with the direction of movement of said piston, including a crank, a connecting lever pivotally connecting said piston and crank, and a fulcrum lever pivotally supported and extending across a line between said piston and driven member, said fulcrum lever pivotally supporting said connecting lever.

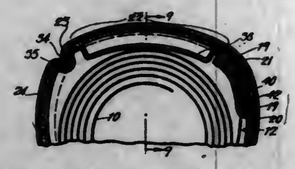
1,751,475. FLEXIBLE METALLIC STRAP. WILLIAM FORSTNER, Irvington, N. J., assignor to Forstner Chain Corporation, Irvington, N. J. Filed May 1, 1929. Serial No. 359,573. 4 Claims. (Cl. 59—80.)



1. An ornamental chain composed of plates embossed to present a series of longitudinal ribs extending equally on both faces and having thin flat connections therebetween, said connections being perforated in their end portions, links disposed on said connections, loops formed on said links to engage the perforations at one of the ends of said connections, re-entrantly turned elements extending from said loops to seat on the opposite faces

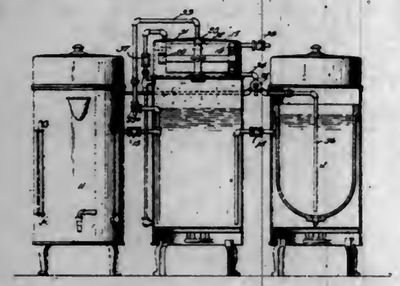
of said connections, and prongs on the extremities of said re-entrant elements to engage the perforations in the opposite ends of said connections.

1,751,476. SAFETY RAZOR AND BLADE. OTTO GOETZKE, Jersey City, N. J. Filed June 4, 1929. Serial No. 368,395. 6 Claims. (Cl. 30—12.)



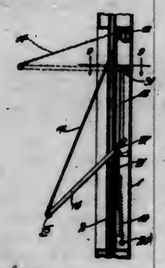
1. A safety razor which comprises a flat magazine having a blade-supporting length in its periphery, an opening to permit strip to be drawn from said magazine into said supporting length and a notch at the end of said length opposite said opening and a guard for said strip movable to a position to overlie said length and having means to enter said notch to engage and sever the strip therein.

1,751,477. METHOD OF AND APPARATUS FOR MAKING INFUSIONS OF COFFEE, TEA, AND THE LIKE. PAUL GREENWALD, Brooklyn, N. Y., assignor to United Kitchen Equipment Co., Inc., a Corporation of New York. Filed July 17, 1928. Serial No. 293,394. 19 Claims. (Cl. 53—3.)



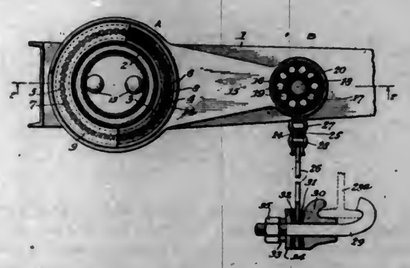
1. The method of repouring coffee and the like which consists in passing steam through a grindings receiving chamber and a pipe leading nearly to the bottom of a coffee urn to expel air therefrom, shutting off the steam to allow the chamber to cool and reduce the pressure sufficiently to suck liquid from the urn into the chamber where it extracts the grindings, and thereafter venting the chamber to allow the liquid extract to drain into the urn.

1,751,478. AUTOMOBILE AWNING. CECIL G. HALE, St. Louis, Mo. Filed Oct. 31, 1927. Serial No. 229,850. 15 Claims. (Cl. 156—44.)



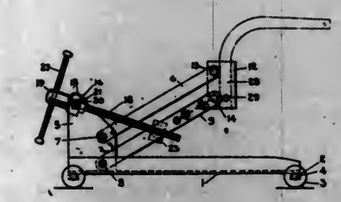
15. An awning of the character described comprising a roller, a sheet of awning material having one end attached to said roller, a spring in said roller for turning said roller in a direction to wind said sheet on said roller and permitting said sheet to be unwound and extended from said roller, a U-shaped frame having its intermediate portion attached to the opposite end of said sheet and having its free ends pivotally mounted, abutments cooperating with said frame to hold said frame in position to prevent said spring from operating said roller and to hold said sheet extended in an inclined position, and means for guiding said frame to and from engagement with said abutments.

1,751,479. SHOCK ABSORBER. BRADFORD B. HOLMES, New York, N. Y., assignor to American Chain Company, Inc., a Corporation of New York. Filed July 27, 1927. Serial No. 208,752. 4 Claims. (Cl. 267—21.)



1. A shock absorber having rolling bearings as retarding elements, said bearings comprising a plurality of race members of resilient material and a plurality of metal rolling members cooperating therewith, said races being under compression.

1,751,480. ELEVATING MECHANISM. JAMES W. HOWELL, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1928. Serial No. 263,308. 1 Claim. (Cl. 254—7.)



The combination with a dolly comprising a platform, of an elevating mechanism comprising a pair of spaced links of equal length pivotally connected to said dolly at spaced points, a third link in the form of a tool holder having a length equal to the distance between said points and connecting the free ends of the first named links in the order of their attachment to said dolly, a fourth link in the form of a screw pivotally attached to and connecting said dolly and one of said first named links, the point of attachment of said fourth link to said dolly being a substantial distance above the platform of said dolly, and an operating handle on said fourth link adjacent the aforesaid point of attachment.

1,751,481. DANDELION CUTTER AND LIFTER. WILLETT J. LA TOURRETTE, Denver, Colo. Filed June 16, 1928. Serial No. 285,935. 4 Claims. (Cl. 55—148.)

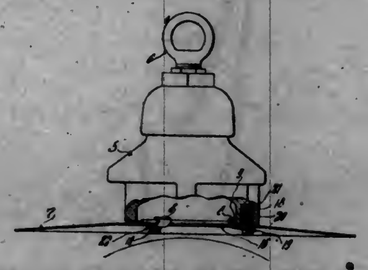


1. A device for cutting the root of and lifting a dandelion comprising: a handle; a blade secured to the lower extremity of said handle; a cutting edge on said blade; and a second blade formed on said first blade and positioned to one side thereof; ears turned outwardly on said blade; a clamping member; and a hinge pin securing said clamping member between said ears.

1,751,482. CORE AND PROCESS OF FORMING THE SAME. EMIL L. LEASMAN, Milwaukee, Wis. Filed June 20, 1927, Serial No. 200,283. Renewed June 27, 1929. 4 Claims. (Cl. 22—188.)

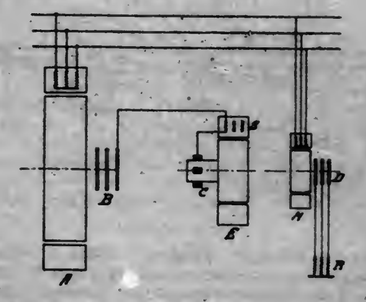
1. The hereindescribed process of forming a core, which consists in mixing a sand having a clay content with sodium phosphate in forming the core, and in drying the core.

1,751,483. LIGHTING FIXTURE. CLARENCE J. LEMONT, South Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Nov. 15, 1928. Serial No. 319,582. 8 Claims. (Cl. 240—128.)



1. The combination with a lighting fixture having a body member and a reflector, of means for connecting the reflector with the body member of the fixture, comprising a cushioning member adapted to be engaged over one edge of the reflector, and securing means passing through aligned apertures in the reflector and cushioning member and engaged with the body of the fixture.

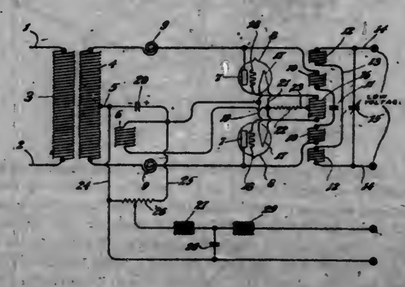
1,751,484. COMPENSATED ASYNCHRONOUS ELECTRIC MOTOR. PIERRE LETEILLIART, Paris, France, assignor to Forges & Ateliers de Constructions Electriques de Jeumont, Société Anonyme, Paris, France, a French Joint Stock Company. Filed June 11, 1928, Serial No. 284,333, and in France July 1, 1927. 6 Claims. (Cl. 172—274.)



1. In combination with an asynchronous electric motor, an exciter formed by a series commutator machine having its brushes set at negative lead angles and being connected in cascade with the rotor of said asynchronous motor, and an auxiliary motor driving said exciter independently of said asynchronous motor, said auxiliary motor being adapted to fall off in speed with an increase of load.

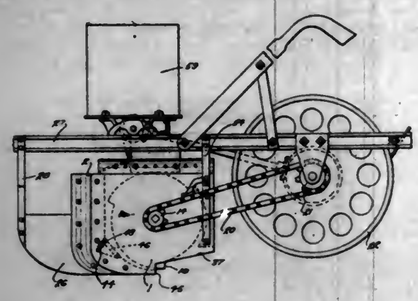
2. In combination with an asynchronous electric motor, an exciter formed by an alternating current commutator machine having its stator windings connected in cascade with the rotor of said asynchronous electric motor and in series with the respective commutator brushes, said brushes being set at angles less than 180 electrical degrees behind the neutral commutation axis, and an auxiliary motor driving said exciter independently of said asynchronous motor, said auxiliary motor being adapted to fall off in speed with an increase of load.

1,751,485. FREQUENCY-CHANGING METHOD AND MEANS. CHARLES V. LOGWOOD, Jersey City, N. J., assignor to De Forest Radio Telephone & Telegraph Company, Jersey City, N. J., a Corporation of Delaware. Filed May 1, 1924. Serial No. 710,292. 1 Claim. (Cl. 250—36.)



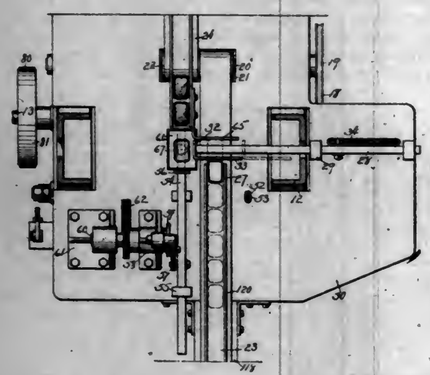
In an alternating current frequency changing system the combination with a source of low frequency current of a plurality of vacuum tube oscillators connected to said source, a high frequency output circuit connected to said oscillators and a low voltage circuit inductively related with said high frequency output circuit, the inductive relation being effected by a transformer having a primary of two portions connected through a low frequency choking condenser and another primary winding connected in the grid filament circuit of the oscillators.

1,751,486. ATTACHMENT FOR PLANTERS. CLOVIS C. LUTZ, Canton, Miss. Filed July 5, 1927. Serial No. 203,645. 13 Claims. (Cl. 111—34.)



4. An attachment for planters including a casing having an arcuate inner surface and an outlet in the rear portion of the bottom thereof, an ejecting element mounted for rotation in the casing having outwardly extending peripheral abutments, the outer edges of which pass over said arcuate surface, and means in the casing for retarding the outward movement of the seed to maintain them close to the advancing or ejecting faces of the abutments.

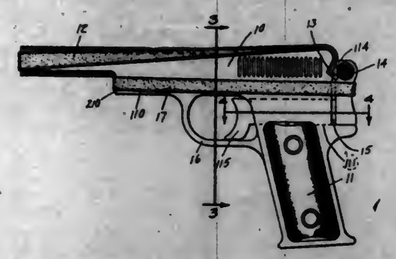
1,751,487. RECEPTACLE-FILLING MACHINE. REX W. MCINTYRE, South Manchester, Conn., assignor to The Orford Soap Company, Manchester, Conn., a Corporation of Connecticut. Filed Sept. 19, 1924. Serial No. 738,590. 19 Claims. (Cl. 226—95.)



1. A filling machine including a material supply chute, a receptacle supply member and a receptacle delivery member located adjacent to said material supply member, means for moving said receptacle supply member for delivery of receptacles to said material supply chute each to be filled therefrom, and separate means acting independently of said moving means for moving filled receptacles onto said delivery member.

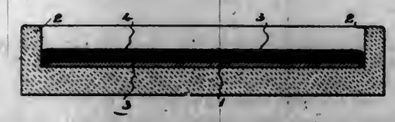
1,751,488. TOY PISTOL. CHARLES F. MEYER, Jr., Indianapolis, Ind. Filed Nov. 30, 1928. Serial No. 322,737. 5 Claims. (Cl. 124—14.)

1. In a toy pistol for discharging elastic projectiles which has a handle and a barrel on which the projectile is adapted to be stretched for discharge, a trigger for releasably holding the rear end of the projectile when under tension, and a rigid trigger bar mounted in the upper part of the handle and slidable longitudinally of the barrel with its front end extending in front of the



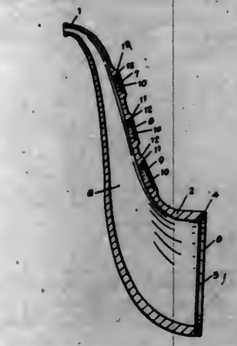
handle in position to be moved rearward by a finger of the hand holding the pistol to release the trigger, said trigger and trigger bar being united to form a rigid unit.

1,751,489. METHOD OF MAKING BIMETALLIC STRIPS FOR THERMOSTATS. FREDERICK WILLIAM MILLER, Hockley Heath, England. Filed Apr. 6, 1927, Serial No. 181,407, and in Great Britain Apr. 21, 1926. 5 Claims. (Cl. 29—188.)



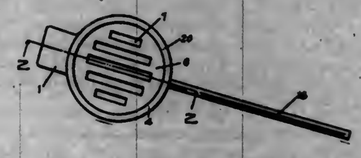
5. The process of making a bi-metallic slab which consists in placing a plate having a high melting point in a crucible, spreading over the entire surface of said plate a mixture of fine granular metal of a lower melting point and a flux, covering the entire upper surface of said mixture with a top layer of such metal of lower melting point, and subjecting the whole to the action of heat so that the metal of said mixture and top layer fuses and displaces said flux and unites with the first named plate to produce a bi-metallic slab.

1,751,490. MUSICAL TOY. HUBERT A. MYERS, Toledo, Ohio. Filed Jan. 30, 1929. Serial No. 336,031. 5 Claims. (Cl. 46—46.)



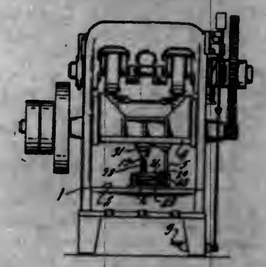
1. In a musical toy, the body of the toy having a chamber formed therein, a mouth piece communicating with the interior of the chamber, a diaphragm extending across the chamber for completely closing the chamber, the wall of the chamber and the body of the toy having a plurality of openings of different diameters and diaphragms extending across the said openings for completely closing the said openings, the edge portions of the last named openings having protruding rims.

1,751,491. MUSICAL TOY. HUBERT A. MYERS, Toledo, Ohio. Filed Jan. 30, 1929. Serial No. 336,032. 3 Claims. (Cl. 46—46.)



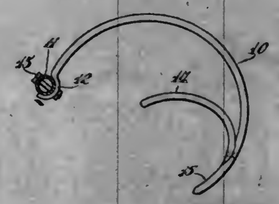
2. In a toy, a body having a recess, a diaphragm of elastic sheet material located over the said recess, part of the diaphragm drawn relatively tight across the recess and a part relatively loosely mounted for freer vibration, the diaphragm forming a closed chamber within the body of the toy, a second diaphragm having openings therein and located in close parallel relation to the first named diaphragm to form variable contact areas of the diaphragms, one against the other, by vocal sound waves, a mouth piece connected to the toy, the mouth piece having a passage-way communicating with the chamber.

1,751,492. BENDER. ALBERT J. NOWAKOWSKI, Toledo, Ohio, assignor to The Toledo Steel Tube Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 3, 1927. Serial No. 223,622. 7 Claims. (Cl. 153—46.)



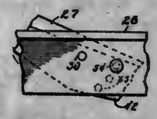
1. A bending machine embodying an inner die having an arc seat, an outer relatively movable shoe, a pair of radially extending arms embracing the die and mounting the shoe, a clamp for positioning the stock to be bent with the inner die at one point, and an actuator for rendering the clamp effective and for additionally effecting through the arms the relative shifting of the shoe as to the inner die.

1,751,493. HARROW TEETH. BERT B. PERKINS, Monticello, Minn. Filed Mar. 2, 1928. Serial No. 258,499. 4 Claims. (Cl. 55—36.)



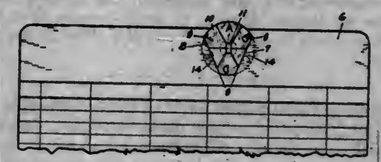
1. A harrow tooth formed with a deflecting arm extending forwardly and laterally therefrom at a point above the ground engaging end thereof.

1,751,494. ACCOUNTING TABLE. EDWARD C. RASMUSSEN, Chicago, Ill. Filed June 11, 1928. Serial No. 284,397. 4 Claims. (Cl. 45—6.)



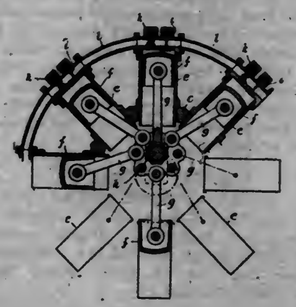
1. A recapitulation device adapted to hold a plurality of tubular sheets in closely assembled folded relation to display corresponding parts of the sheets, said device including a flat top provided with parallel, perforatory slots with resultant intervening slat-like portions to support the folded sheets with their edges depending beneath said top, and means to hold the sheets in variously predetermined positions depending on the parts to be exposed.

1,751,495. ADJUSTABLE LEDGER SHEET AND CARD FLAG. GALE S. ROBINSON, Seattle, Wash. Filed Feb. 25, 1929. Serial No. 342,487. 6 Claims. (Cl. 129—16.8.)



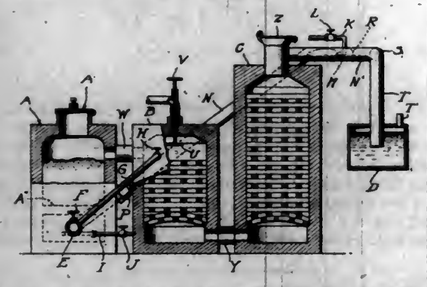
1. The combination with a flexible card or sheet having slots near one edge, of a flag adjustably supported in said slots and connected with said sheet solely by means of said slots and projecting beyond the adjacent edge of said card or sheet.

1,751,496. TORQUE CUSHIONING SHAFT COUPLING. ERICH SANDNER, Kobe, Japan. Filed July 28, 1927, Serial No. 209,031, and in Germany Apr. 21, 1925. 4 Claims. (Cl. 64—89.)



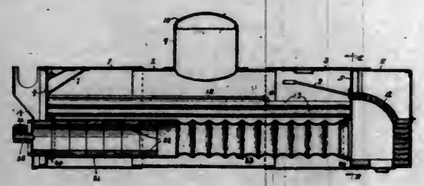
1. A shaft device adapted to be subjected to a pulsating torque, said device comprising separate shaft sections terminating in mutual adjacence at the nodes of torsional oscillation of the device, and coupling for said sections, said coupling comprising a set of positive-action hydraulic pumps, the latter comprising complementary pumping members carried by said sections respectively, and automatically operable means for normally preventing relative movement of said pumping members and hence of said sections, and for allowing such relative movement when resonance between shaft device and pulsations sets up torsional stresses at said nodes greater than a predetermined maximum.

1,751,497. WATER-GAS APPARATUS. FRANK W. STEERE, New York, N. Y., assignor, by mesne assignments, to Young-Whitwell Gas Process Company, Tacoma, Wash., a Corporation of Washington. Filed May 7, 1923, Serial No. 637,159. Renewed Aug. 6, 1927. 4 Claims. (Cl. 48—80.)



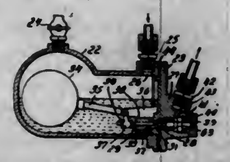
2. A carburetted water gas set including a generator, carburetter, and superheater, connected in series by a free and unobstructed main passage, a second passage leading from the generator to a gas offtake, and a by-pass connecting the said passages, said by-pass having a steam jet therein adapted to deliver steam in a direction at an angle to the normal gas flow through the main passage.

1,751,498. COMBUSTION APPARATUS. HUSTON TAYLOR, Detroit, Mich. Filed Dec. 12, 1923. Serial No. 680,100. 1 Claim. (Cl. 158—1.)



1. In combination an elongated tubular refractory combustion flue of restricted cross-sectional area, having an unobstructed bore, said bore being so proportioned that its radiant surface area of refractory material in square feet is approximately four or more times its volume in cubic feet, and having a length approximately four or more times its diameter; and means for delivering fluent fuel for combustion under pressure into said bore at a rate within the fuel consuming capacities for which said combustion flue is designed.

1,751,499. REFRIGERATING APPARATUS. ALFRED MORRIS THOMSON, Newark, N. J., assignor to Joseph Mercadante, New York, N. Y. Original application filed Nov. 22, 1926, Serial No. 149,844. Divided and this application filed May 16, 1927. Serial No. 191,562. 1 Claim. (Cl. 137—103.)

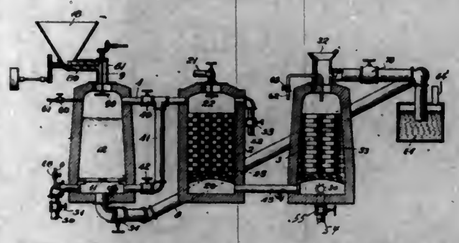


In a refrigerating apparatus, an expansion valve comprising a float chamber, a float therein, a support, a valve member carried by said support and connected to said float, a valve seat carried by said support and removable therefrom, removable means engaging said support accessible from the exterior of said float chamber for normally holding said valve seat in place, a valve chamber adjacent to said valve seat and having an opening in line with the longitudinal axis thereof said valve seat and said valve seat holding means being removable through said opening, a removable closure for the opening in the said valve chamber and a screened fluid intake port communicating with said float chamber and said valve chamber, said screened intake port being downwardly disposed in said float chamber.

1,751,500. METHOD OF FORMING ARTICLES FROM HEAT-TREATABLE ALUMINUM-BASE ALLOYS. WILLIAM C. WINTER, Parnassus, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 13, 1927. Serial No. 239,819. 7 Claims. (Cl. 148—11.5.)

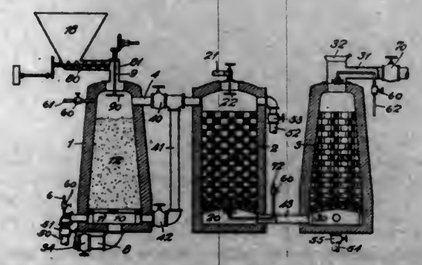
5. The method of forming an article capable of developing increased tensile strength and hardness from aluminum base alloy sheet containing copper in excess of the amount soluble at normal temperatures, comprising heating the alloy sheet to cause increased solution of the excess copper, and while thus heated die-pressing it in a cold die and simultaneously cooling the article therein rapidly enough to retain the major portion of the dissolved copper in solution.

1,751,501. BACK-RUN PROCESS OF MAKING WATER GAS. DANIEL J. YOUNG, Tacoma, Wash., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash. Filed Nov. 25, 1924. Serial No. 752,104. 4 Claims. (Cl. 48—208.)



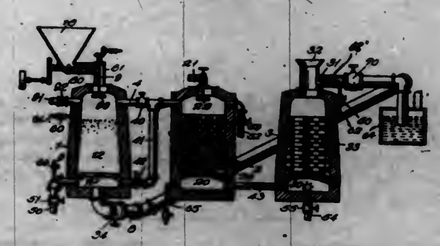
2. The improvement in the process of making carbureted water gas, which when carried out in a plant comprising a single water gas generator having a solid fuel bed, a single carburetor, and a single superheater, consists in introducing water into the highly heated superheater, whereby steam is produced, passing said steam successively through the superheater, carburetor, and the fuel bed in the generator, and withdrawing water gas from the generator.

1,751,502. PROCESS OF MAKING UNCARBURETED WATER GAS. DANIEL J. YOUNG, Tacoma, Wash., assignor to Young-Whitwell Gas Process Co., Tacoma, Wash. Filed July 6, 1925. Serial No. 41,733. 2 Claims. (Cl. 48—208.)



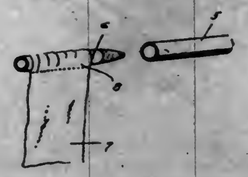
1. A three cycle process of making uncarbureted water gas; one cycle consisting in air blasting the fuel bed of a single gas generator containing a bed of solid fuel and passing the resulting blast gases through a heat interchanger, whereby the heat interchanger is highly heated; a second cycle consisting in making a forward steam run successively through the generator and the heat interchanger, the gas being withdrawn from the end of the heat interchanger remote from the generator; and the third cycle consisting of a backrun, comprising introducing water into the end of the heat interchanger remote from the generator, whereby steam is produced, passing said steam successively through the heat interchanger and through the fuel bed of the generator, and withdrawing the water gas generated during the backrun directly from the gas generator, and passing it directly to a place of storage or use.

1,751,503. GAS MANUFACTURE. DANIEL J. YOUNG, Tacoma, Wash., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash. Filed Mar. 26, 1926. Serial No. 97,604. 12 Claims. (Cl. 48—80.)



1. An apparatus of the character described, comprising a single gas generator, a single primary heat interchanger, a single secondary heat interchanger, and a wash box, the single units being connected in series and located in separate and detached shells, gas off-takes leading from the generator and secondary heat interchanger directly to the wash box, and means for introducing a fluid at both ends of the apparatus.

1,751,504. CURTAIN PROTECTOR. PHILLIP C. ZWINGLER, North Lima, Ohio. Filed May 1, 1929. Serial No. 359,564. 2 Claims. (Cl. 156—19.)



2. In combination, a pair of hollow curtain rods adapted to slide one within the other, a soft resilient body mounted in the end and projecting forwardly of the male rod and adapted for sliding relation within the female rod, said resilient body being pointed on the outer end for threading the hem of a curtain over the male rod, without tearing the curtain.

1,751,505. DISPLAY STAND. ARCHIE M. BORLAND, Jr., Albert Lea, Minn. Filed Feb. 23, 1929. Serial No. 341,997. 5 Claims. (Cl. 211—163.)



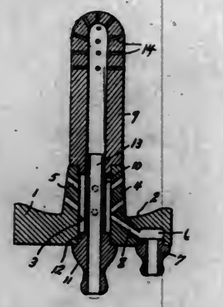
1. In a structure of the class described, a truncated conical base, a vertical socket supported in said base, and having its upper end extended through the truncated apex portion thereof, an article supporting standard having a coupling member extended below the lower end thereof and fitting telescopically and rotatably into said socket.

1,751,506. CORSET. MARY H. BOWNE, Worcester, Mass. Filed Apr. 26, 1929. Serial No. 358,243. 1 Claim. (Cl. 2—41.)



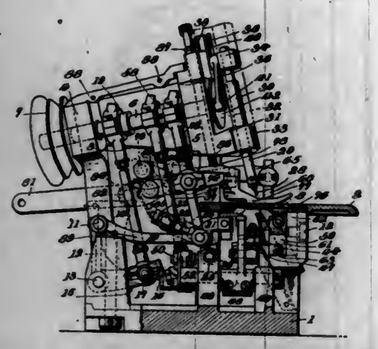
As an article of manufacture, a corset of the type described, comprising a rear section of elastic material, a front section of elastic material in a single piece extending from side to side, the back section being of uniform length and the front section being concave at the bottom so as to be narrower at the front than at the sides, said sections being secured together at the sides of the garment and a band of elastic material, less yielding than the material of said sections, and of uniform width secured by its upper edge to the lower edge of the corset body formed by said sections, and extending all around the bottom of the garment, whereby when on the wearer said band will extend across the bottom of the abdomen.

1,751,507. SYRINGE. JOSEPH W. BRUNETTE, Fordson, Mich. Filed Mar. 2, 1929. Serial No. 343,074. 1 Claim. (Cl. 128—241.)



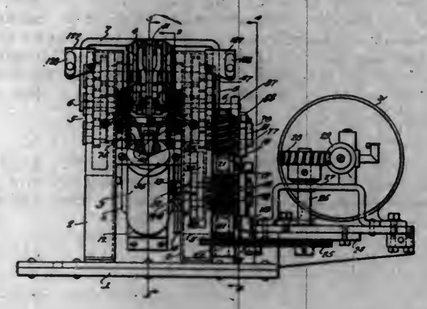
A syringe comprising a substantially flat body having an enlarged intermediate portion in which a drain chamber is provided, a nipple for insertion within the chamber at one side of the body, a hollow perforated nozzle member, said nozzle member being internally threaded at one end, a reduced tubular extension on said nipple, said extension being adapted to have its free end portion threadedly engaged within the threaded end portion of the nozzle, a fluid inlet, said inlet being at one side of the body and communicating with the said chamber, and an outlet communicating with the chamber and opening through the opposite side of the body.

1,751,508. SEWING MACHINE. NORMAN V. CHRISTENSEN and FREDERICK F. ZEIBE, Chicago, Ill., assignors to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Continuation of application Serial No. 270,446, filed Apr. 16, 1928. This application filed Mar. 25, 1929. Serial No. 349,795. 34 Claims. (Cl. 112—162.)



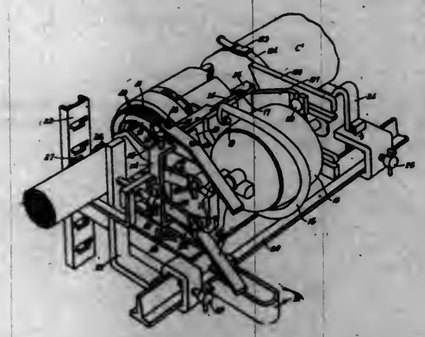
1. The combination of a work support, a stitch forming mechanism, a feeding mechanism, an actuating shaft arranged above the plane of the work support and disposed so as to extend in the general direction of the feed and located substantially in rear of the stitching point, actuating members carried by said shaft and devices operated thereby for operating, respectively, the feeding mechanism and the stitching mechanism, and a supporting standard for the actuating shaft arranged to one side of the line of feed whereby clearance for the material being stitched is afforded.

1,751,509. ELECTRIC SOLDERING MACHINE. JAMES CUNNINGHAM, Riverton, N. J., assignor, by mesne assignments, to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 30, 1927. Serial No. 179,647. 29 Claims. (Cl. 219—12.)



1. In a wire-splicing machine, the combination with a frame, of a soldering iron mounted in said frame, a plurality of wire-gripping elements, and means for moving said gripping elements to bring the wires held thereby successively into position to be acted upon by said soldering iron.

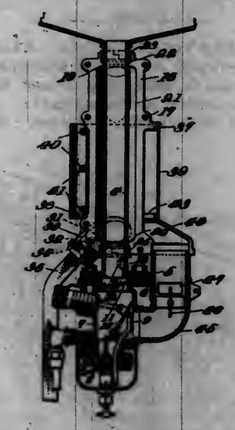
1,751,510. METHOD AND APPARATUS FOR MAKING JOINTS. JAMES CUNNINGHAM, Riverton, N. J., assignor, by mesne assignments, to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 9, 1928. Serial No. 298,564. 14 Claims. (Cl. 113—59.)



1. A method of making joints in cable comprising forcing a fine stream of molten metal at a high temperature and high velocity against the parts to be joined and automatically moving said stream at a uniform rate of speed around the cable over said parts.

10. A machine for making joints in cable sheath comprising a frame, means for supporting the same to surround the cable, a solder tank on said frame, a nozzle and a valve therefor on said tank, manually controlled means for operating said valve, and driving means for rotating said frame about the cable.

1,751,511. COMBINED CHARGE AND AIR HEATER FOR INTERNAL-COMBUSTION ENGINES. JACOB RICHARD FRANCIS, Flint, Mich. Filed May 1, 1928. Serial No. 635,907. 16 Claims. (Cl. 123—122.)



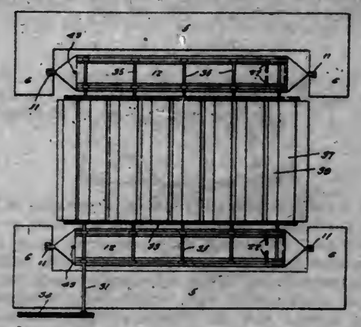
1. The combination with an internal combustion engine having an exhaust manifold, intake manifold and a charge forming device connected thereto, provided with a throttle valve, of a detachable heating jacket surrounding said intake manifold, means for conveying exhaust gases from said exhaust manifold to said heating jacket, means operated by the throttle for controlling the passage of exhaust gases through said jacket, a detachable concentric shell surrounding said jacket provided with an air inlet and means for conveying the air passing through said jacket to the air inlet of the charge forming device.

1,751,512. HOLD-DOWN DEVICE FOR AUTOMOBILES. ISIDORE LEO FRIEDLAENDER, Detroit, Mich. Filed Aug. 27, 1928. Serial No. 302,266. 7 Claims. (Cl. 188—32.)



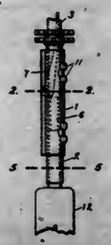
1. A device of the character described, comprising a single strip of sheet metal bent into substantially U-shape form to provide legs adapted to straddle apart of the vehicle, the ends of the legs being bent inwardly in overlapping relation and punched with registering bolt holes; a floor plate formed of sheet metal; means for securing the floor plate to the floor; a bolt relatively short extending through the floor plate and through the overlapping ends of the U-shape member; means between said floor plate and said bolt for maintaining the bolt in substantially vertical position against turning movement; and nuts screwed upon said bolt to adjustably secure the U-shape member on the bolt.

1,751,513. WATER-POWER GENERATOR. FRANK L. GARDE, Plymouth, Ind. Filed Jan. 31, 1929. Serial No. 336,544. 5 Claims. (Cl. 170—85.)



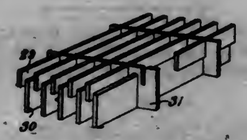
1. In an apparatus of the class described, a pair of vertical coextensive parallel spaced walls provided with inwardly directed end extensions, the inner surfaces of the extensions being provided with tracks vertically disposed, a pair of pontoons between the extensions and having arms at their ends, rollers journaled on the arms and disposed in the tracks, and power generator means supported on the platform.

1,751,514. UMBRELLA ATTACHMENT. THEODORE P. GARANKIN, New York, N. Y. Filed Apr. 18, 1929. Serial No. 356,158. 3 Claims. (Cl. 135—41.)



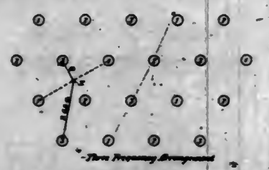
2. In an umbrella attachment, the combination of a tubular member loosely fitted over the sliding rib bushing of said umbrella, a hinge supporting said tubular member on said bushing, a portion of said member being adapted to cover a spring latch of said umbrella, said tubular member being adapted to be manually rocked on said hinge thereby operating said latch of said umbrella.

1,751,515. LOCOMOTIVE GRID SCREENING. HARRY E. GILLETTE, Lincoln, Nebr. Filed July 13, 1927. Serial No. 205,414. 5 Claims. (Cl. 110—122.)



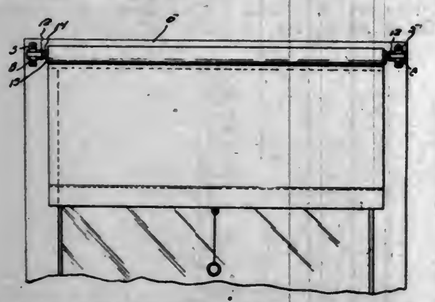
1. A spark arrester for locomotive smoke boxes, comprising a plurality of spaced apart supporting bars, a plurality of upper grid bars, a plurality of lower grid bars, the upper and lower grid bars being alternately positioned with adjacent grid bars having partially overlapping relationship and notched connections between the supporting bars and the grid bars.

1,751,516. COMMON-FREQUENCY BROADCASTING SYSTEM. ESTILL I. GREEN, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 8, 1927. Serial No. 211,518. 5 Claims. (Cl. 250—17.)



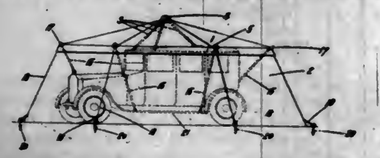
1. In a chain broadcasting system, a plurality of broadcasting stations arranged to transmit the same program, each station transmitting on but a single wave length, said stations being arranged in groups, each station of a group transmitting at the same wave length, but more than one transmitting wave length being employed for different groups and all of the groups simultaneously transmitting the same program, the stations of the different groups being so located with respect to each other and the stations of other groups, and the wave lengths being so assigned to the stations, that any set of four closely adjacent transmitting stations surrounding a common area will employ less than four but not less than two carrier frequencies.

1,751,517. SHADE HANGER. VICTOR C. HANSEN, Brooklyn, N. Y. Filed Aug. 13, 1928. Serial No. 299,326. 1 Claim. (Cl. 156—24.)



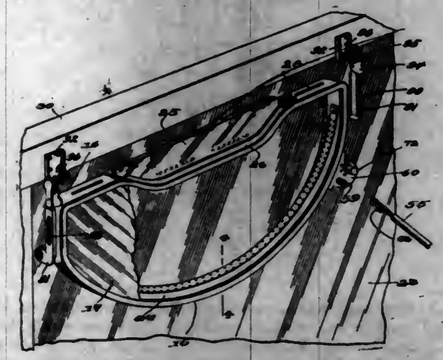
A shade hanger comprising a guide bracket, means for securing the bracket to the window sash, a supporting bracket having reinforcing flanges formed on its longitudinal edges and bent over one face thereof, said supporting bracket including right angularly extending arms, the flanges engaging the face of one arm and the flanges on the other arm being spaced from said face to provide guide ways, the arm having the flanges bent into engagement therewith being slidably mounted in said guide bracket for movement transversely of the window sash, and a shade roller-engaging section slidably carried in said guide flanges and having means formed at its outer end for receiving one end of a shade roller.

1,751,518. TENT. AGNES PATRICIA MACLEAN, Kentallen, Scotland. Filed Oct. 9, 1928, Serial No. 311,402, and in Great Britain July 17, 1928. 3 Claims. (Cl. 135—4.)



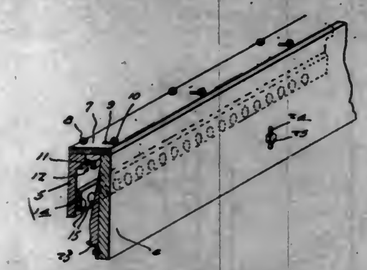
1. The combination with a vehicle, of a fabric tent covering, sockets secured to the vehicle, upwardly directed struts the lower ends of which are secured in said sockets and means connecting the upper ends together forming a supporting structure, extending well above the vehicle, which is rigid without dependence being placed upon the fabric of the tent.

1,751,519. CLEAR-VISION DEVICE. KENNETH M. MACLENNAN, Ayer, and JOSEPH O. MARCHAIS, Fitchburg, Mass., assignors to Safety Clear Vision, Inc., Fitchburg, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1928. Serial No. 321,969. 7 Claims. (Cl. 20—40.5.)



1. An attachment for windshields and the like including a glass-carrying frame, a plurality of separate successively operable heating elements carried thereby, and switch means for bringing said heating elements successively and additively into operation.

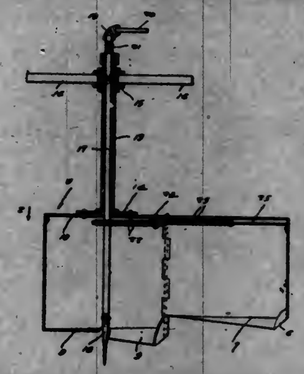
1,751,520. CAN COVER AND TOP FEED GUIDE. JOHN MENGEL, Oconomowoc, Wis. Filed Nov. 9, 1928. Serial No. 318,166. 7 Claims. (Cl. 113—114.)



1. A guide of the class described comprising a pair of spaced parallel guide members, a channeled guide formed on the inner face adjacent the upper edge of one of said guide members and a guide shelf secured at the inner face adjacent the lower edge of the other of said guide members, said channeled guide and said guide shelf cooperating to engage the upper and lower edges respectively of the work and forming a track upon which the same may be moved longitudinally of the guide, and guide means carried by each of said members for engaging opposite sides of the work intermediate its upper and lower edges and arranged to urge the lower edge of the work off the edge of the shelf when said work is placed in predetermined position in the guide.

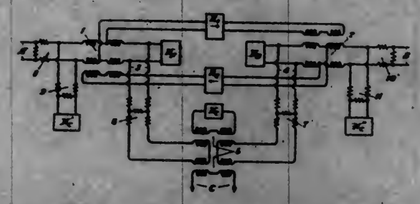
1,751,521. POST-HOLE DIGGER AND REAMER. ARTHUR EUGENE MILLER, Houston, Tex. Filed Mar. 29, 1929. Serial No. 350,993. 1 Claim. (Cl. 255—67.)

A post hole digger comprising an expansible head, a hollow handle extending from the head, a rod extending through said handle, and means connecting the rod to the expansible head, whereby the head may be adjusted, said head including a pivotal blade and said means consisting of an arm projecting from the rod, a pivotal pin connection



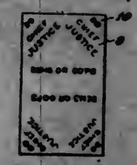
between the said arm and the said pivotal blade, and adjustable means whereby the blade may be retained in an adjusted position, said means consisting in providing the head with a plurality of openings, said pivotal pin being adapted to engagement in one of the said openings.

1,751,522. MULTIPLE-WAY CONNECTION FOR TRANSMISSION LINES. DOREN MITCHELL, New York, and HAROLD C. SILENT, Larchmont, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 23, 1928. Serial No. 301,659. 4 Claims. (Cl. 179—170.)



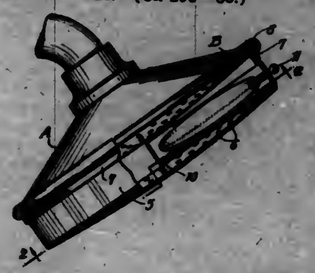
1. Two line sections interconnected by repeater apparatus, comprising hybrid coils, balancing networks, and repeater gain elements for transmission in opposite directions, circuits connected to the network side of each of said hybrid coils and terminating in the windings of another hybrid coil, and a third line section connected to said last mentioned hybrid coil.

1,751,523. CARD GAME. WILLIAM MCKINLEY MORGAN, Wynona, Okla. Filed July 28, 1928. Serial No. 295,924. 1 Claim. (Cl. 273—152.)



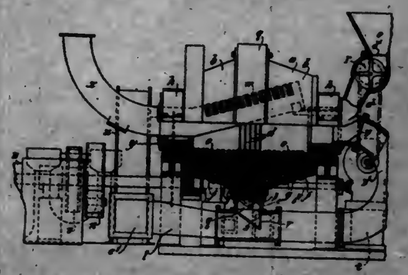
A deck of ninety-nine cards, ninety-six of said cards representing Senators from the forty-eight States and being divided equally between the two leading political parties and bearing data indicative of the order of admission of the respective States to the Union, and the other three cards being marked as belonging to either political party and bearing designations representing the Vice-President, the President and the Chief Justice, the President card being marked "Veto" and the Vice-President card being marked "Deciding vote", and the cards representing Senators from Virginia and Massachusetts being also designated "Leader".

1,751,524. SHOWER-NOZZLE ATTACHMENT. HAROLD J. MOSS, New York, N. Y. Filed Feb. 1, 1929. Serial No. 336,833. 2 Claims. (Cl. 299—83.)



1. In a shower nozzle attachment, a pan-shaped member having an annular side wall and perforations in its bottom wall, means associated with the side wall of the member to facilitate its attachment to the rim of the shower nozzle, and means normally located within the member for the reception of soap or bath pellets and constructed to permit the water to pass therethrough when leaving the nozzle, said means consisting of a drawer slidable through an opening in the side wall of the member and having openings in at least its bottom wall.

1,751,525. APPARATUS FOR PULVERIZING COAL OR OTHER FUEL. JOHN MULLIN, Enfield, England. Filed Mar. 30, 1929, Serial No. 351,370, and in Great Britain Apr. 2, 1928. 6 Claims. (Cl. 83—9.)



1. A ball and drum pulverising mill comprising a rotatable drum, balls therein, and means for delivering material into one end of the drum, the drum having imperforate conical end portions and an intermediate cylindrical portion which is in free communication with the end portions and is provided with openings through which pulverized material is discharged.

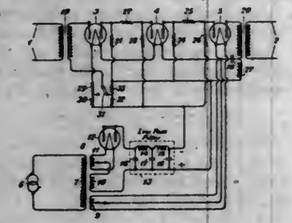
1,751,526. WEATHER STRIP. LARS C. NEILSEN, Bradley, Ill. Filed Apr. 15, 1929. Serial No. 355,219. 3 Claims. (Cl. 20—68.)



1. In a weather strip, a pair of bars arranged longitudinally beneath the lower edge of the door and secured

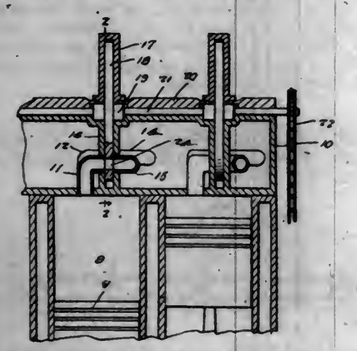
thereto, strips secured to the bottom faces of the bars and having the inner edge portion thereof extending inwardly beyond the inner side faces of the bar to provide supporting ledges, vertically extending pins secured at their lower ends on the ledges, a plate arranged longitudinally between the bars and mounted for vertical movement on the pins, an additional plate arranged longitudinally between the bars and mounted for lateral sliding movement on said pins, a door jamb engaging element carried by one end of the sliding upper plate, coacting means between the upper and lower plates for normally holding the lower plate in the lowered position, a floor engaging strip attached to the lower plate for disposition between the supporting ledges and engaging with the floor when the lower plate is moved downwardly, means for automatically sliding the upper plate longitudinally when the door jamb engaging element is moved out of engagement therewith to move the coacting members out of engagement with each other, and additional means for automatically raising the lower plate and the floor engaging strip carried thereby to inoperative position when said aforementioned coacting means is disposed in an inoperative position.

1,751,527. DISTORTIONLESS AMPLIFYING SYSTEM. HARRY NYQUIST, Millburn, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 24, 1926. Serial No. 150,525. 2 Claims. (Cl. 179—171.)



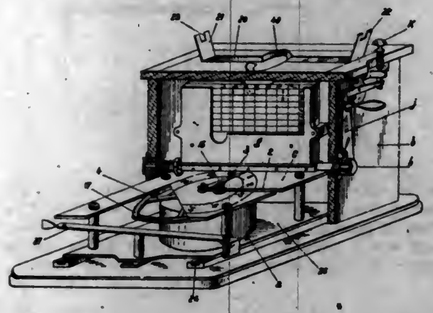
1. A distortionless coupling arrangement for an amplifying system comprising two three-element vacuum tubes, a resistance connecting the plate of the first vacuum tube to the grid of the second vacuum tube, a source of alternating current, means for rectifying said alternating current, a filter connected to said rectifying means, said filter having a cutoff frequency lower than the frequency of said alternating current, and two other resistances, said latter resistances connecting opposite terminals of the first resistance to opposite terminals of said filter, respectively.

1,751,528. ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. HANS C. PETERSON and FRANK H. RUSSELL, Weyauwega, Wis. Filed May 8, 1928. Serial No. 276,083. 1 Claim. (Cl. 123—59.)



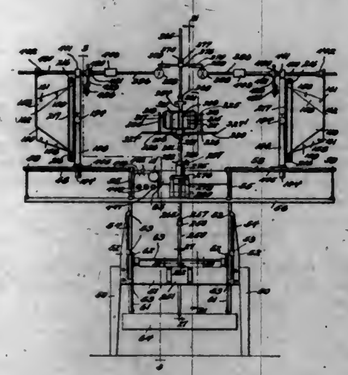
In a valve structure for internal combustion engines comprising an engine head of hollow construction having casings extending transversely therein, intake and exhaust conduits leading to and extending from the casings, each casing comprising in construction a pair of spaced side walls, a disc valve operable within each casing, said disc having ports to register with the conduits, caps for disposition over the said casings and the upper portions of the said discs, a shaft on which said discs are mounted, and means for mounting the shaft.

1,751,529. TIME-RECORDING APPARATUS. FERDINAND PHILIPPE ANDRÉ ERNEST DELPECH, Paris, France. Filed Nov. 9, 1926, Serial No. 147,273, and in France Nov. 27, 1925. 9 Claims. (Cl. 234—43.)



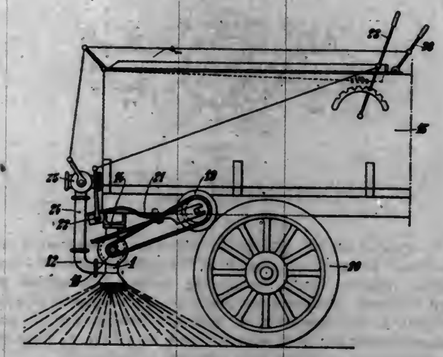
1. A card holder for a recorder of the type described comprising a pair of hingedly connected card guides and card centering means carried by one of said guides engaging the other of said guides when said guides are moved to closed position.

1,751,530. STEREOSCOPIC APPARATUS. WILLIAM P. REAVES, Greensboro, N. C. Filed Dec. 16, 1925, Serial No. 75,822. Renewed Sept. 2, 1926. 36 Claims. (Cl. 88—29.)



1. A stereoscopic apparatus, comprising in combination, a support, two radiograph supports mounted thereon, a binocular reflecting device mounted on the support between said radiograph supports, and means for tilting said radiograph supports about both vertical and horizontal axes, including means for moving said reflecting device vertically or horizontally with respect to said support, a rod slidably mounted on each of said radiograph supports, and a universal pivotal connection between each of said rods and said reflecting device.

1,751,531. CENTRIFUGAL DIFFUSING APPARATUS FOR SPREADING PRODUCTS FOR THE MAINTENANCE OF ROADWAYS. ALPHONSE JOSEPH SCHARS, Bordeaux, France. Filed Jan. 10, 1928, Serial No. 245,751, and in France Jan. 26, 1927. 4 Claims. (Cl. 299—38.)



1. In a centrifugal diffusing apparatus for spreading products on roadways, a fixed frustum-shaped casing, means for feeding said casing at its part of smallest diameter with the product to be spread, said casing being open at its part of largest diameter, a rotating member fitted in the said casing, a shaft co-axial with the casing and keyed on the said rotating member, and means to rotate the said shaft.

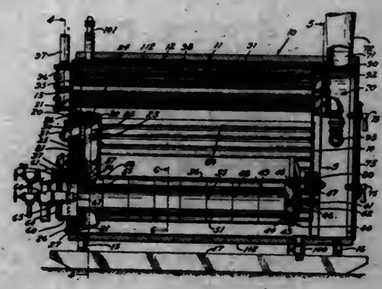
1,751,532. AUTOMATIC MACHINE-CONTROL MECHANISM. FLETCHER SCHAUM, Philadelphia, Pa., assignor to Fletcher Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 11, 1928. Serial No. 325,858. 5 Claims. (Cl. 139—66.)



1. An automatic control comprising a series of slidable elements respectively connected with the instrumentalities to be controlled and a series of predeterminedly arranged elements mounted for movement in an orbital path having a section disposed parallel with the plane of movement of the slidable elements, said slidable and movable elements having shoulder lugs, the edges of which overlap each other at said section of parallelism and adapted to have contact to slide certain of the slidable elements concurrently with the movable elements to actuate the control and means for reciprocating the series of elements.

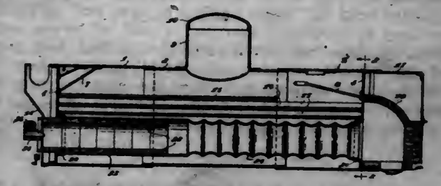
1,751,533. OIL HEATER. HUSTON TAYLOR, Pasadena, Calif. Filed July 7, 1926. Serial No. 120,907. 2 Claims. (Cl. 122—33.)

1. An oil heating apparatus comprising a shell containing a heat exchange fluid, a combustion chamber projecting into said shell, a relatively large outlet vestibule for receiving the combusted gases and discharging them to the atmosphere, a multiplicity of small oil conveying tubes situated within said shell, and a large oil distributing pipe connected to said tubes and extending through



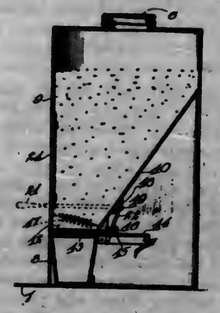
said outlet vestibule with its outer surface in direct contact with the outlet gases passing through said vestibule.

1,751,534. BOILER. HUSTON TAYLOR, Pittsburgh, Pa. Filed May 22, 1929. Serial No. 365,187. 5 Claims. (Cl. 122—149.)



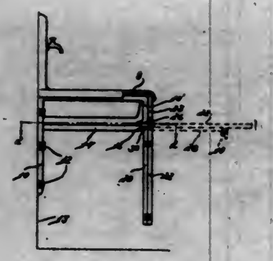
1. A boiler comprising an elongated waterholding shell, a metal tubular member of flue proportions disposed in said shell below the normal water level therein and serving as a combined furnace and flue, the furnace portion of said member being lined with refractory to provide a combustion chamber whose surface area in square feet is equal to three or more times its volume in cubic feet, and of sufficient length to cause efficient combustion of fuel within the combustion chamber when the boiler is operating within its rated capacities.

1,751,535. COFFEE DISPENSER. JOHN TERBORG, Demotte, Ind. Filed Oct. 10, 1928. Serial No. 311,601. 2 Claims. (Cl. 221—146.)



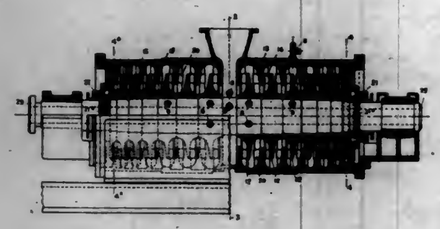
1. A dispensing apparatus comprising a container having a bottom outlet, a slide for closing said outlet, a cross rod movable with the slide and projecting beyond the side edge of the same, a rock shaft pivoted adjacent said cross rod and having an arm projecting transversely of the path of movement of the cross rod and adapted to move the cross rod and associated slide to permit discharge through said bottom opening.

1,751,536. TABLE. WILLIAM R. THOMSON, Fordson, Mich. Filed Oct. 29, 1928. Serial No. 315,653. 2 Claims. (Cl. 45—17.)



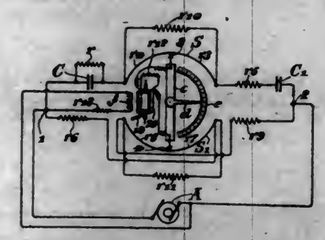
1. In a table of the class described a supporting frame; a pair of supporting arms slidably mounted on said frame; a cross bar connecting said supporting arms; and a pair of bars slidably mounted in said cross bar; a board mounted on said supporting frame; a leaf swingably mounted on said board, said supporting bars upon engagement with the under surface of said leaf, retaining the same in horizontal position; a pair of leaves, each swingably connected to one edge of said first mentioned leaf and foldable thereon, said slidably mounted bars in said cross bar adapted to engage the under surface of said pair of leaves and maintain said pair of leaves in alignment with said first mentioned leaf.

1,751,537. APPARATUS FOR COMPRESSING AIR, GASES, OR VAPORS. EMILIO VIANELLO, Milan, Italy. Filed July 9, 1926, Serial No. 121,455, and in Italy Feb. 25, 1921. 2 Claims. (Cl. 230—130.)



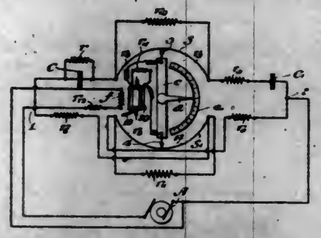
1. A centrifugal compressor for air, gases, vapors and the like including a plurality of rotating wheels each having an integral rim projecting towards the suction side of the compressor and a plurality of ports changing in number and size from wheel to wheel and disposed at an angle of 50–60 degrees to the radius at the inner periphery of the rim and radial at the outer periphery thereof, said ports presenting successive sections of passage varying in the same rim according to the change of the velocity and the change of the specific volume of the fluid dependent on the isothermal compression, diaphragms preceding each rotating wheel and provided on the side towards the ports of said wheel with rings axially displaceable from the outside of the casing to effect tightness of said ports and provided on the opposite side with a crown of deflectors each disposed at an angle of 50–60 degrees at the outer periphery of the crown and radial at the inner periphery, means for maintaining the temperature of the fluid undergoing compression at a predetermined value and means for securing tightness between the shaft and the ends of the casing.

1,751,538. SYSTEM OF FREQUENCY OR SPEED MEASUREMENT AND CONTROL. FELIX WUNSCH, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 27, 1925. Serial No. 18,794. 10 Claims. (Cl. 172—245.)



9. Apparatus for measuring frequency comprising an electrical network, a source of fluctuating current connected thereto, means indicating balanced condition of said network, structure movable to effect balance of said network at the frequency of said fluctuating current, and means associated with said movable structure to indicate the frequency at which said network is balanced.

1,751,539. FREQUENCY AND SPEED CONTROL. FELIX WUNSCH, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Mar. 27, 1925, Serial No. 18,794. Divided and this application filed June 27, 1928. Serial No. 288,688. 13 Claims. (Cl. 171—119.)

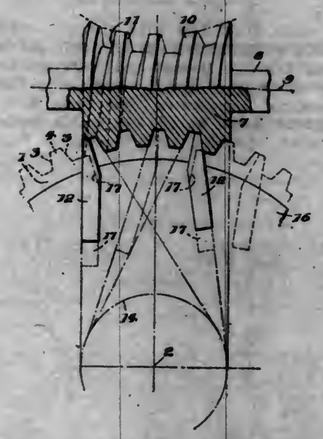


4. In a system comprising a moving system, means for regulating delivery of energy thereto to maintain the speed within a range, an alternator driven by said system, and an electrical balancing network, the method of controlling the speed of the moving system, which comprises producing unbalance of said electrical network by departure of the frequency of said alternator from a predetermined frequency at which the network is balanced, and utilizing the unbalanced network to modify the action of said regulating means.

10. A system comprising an alternator, a prime mover therefor, a governor maintaining the speed of said prime mover substantially constant, and means for determining the governor setting comprising an electrical network responsive to the alternator frequency and means operable when the network is not balanced at a predetermined frequency to change the setting of said governor.

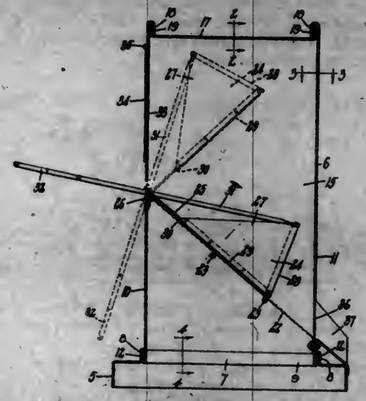
1,751,540. METHOD OF GENERATING WORM GEARING. SAMUEL I. COSS, Portsmouth, Va., assignor to Cone Gearing Corporation, Norfolk, Va., a Corporation of Virginia. Filed June 27, 1925. Serial No. 40,115. 14 Claims. (Cl. 90—4.)

1. The method of generating worm wheels consisting in simultaneously rotating an edge cutting tool and a wheel blank, said cutting tool being radiated while rotated in a plane parallel with and spaced apart from a plane passing through the axis of the wheel blank and perpendicular to the axis of rotation of the cutting tool, the cutting edge lying at all times entirely within a plane passing through the axis of rotation of said tool.



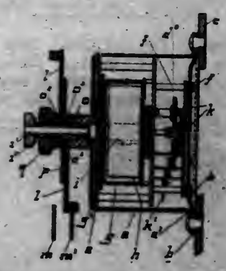
4. The method of generating worm wheels of the character described, consisting in rotating and radiating an edge cutting tool and a worm wheel blank simultaneously about two axes perpendicular to each other to generate the faces of the worm wheel teeth, the plane of the cutting edge of the tool being spaced apart from a plane passing through the axis of the worm wheel blank a distance equal to the radius of the co-axial circle formed by the projections of the faces of the worm wheel teeth and said plane of the cutting edge of said tool being parallel with the axis of the worm wheel blank and perpendicular to the axis of rotation of said tool and the distance between said axes being maintained constant throughout the operation, and cutting teeth upon said wheel blank with a long helical twist and with sides at a constant angle to each other.

1,751,541. ASH SIFTER. GEORGE G. DONNELLY, Somerville, Mass. Filed May 8, 1929. Serial No. 361,434. 4 Claims. (Cl. 209—357.)



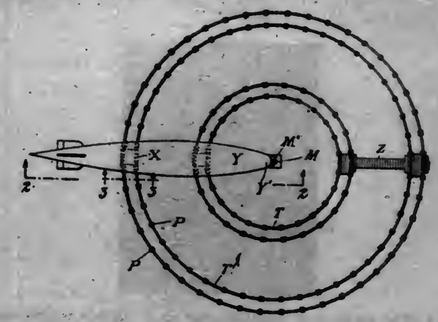
1. An ash sifter comprising, in combination, a cover for an ash receptacle, a housing mounted upon said cover, a screen mounted in an inclined position within said housing and a sieve pivotally mounted within the housing and normally resting upon the screen.

1,751,542. CLOCK. ARTHUR DORSEY, Brooklyn, N. Y. Filed Dec. 23, 1922. Serial No. 608,600. 2 Claims. (Cl. 161—1.)



1. In combination, with clock mechanism, including an arbor actuated thereby, power take-off devices and time indicating means carried with the arbor, and releasable means supported on and co-operating with said arbor to change the angular relation between the time indicating means and the power take-off devices with respect to the arbor without disturbing the angular relation between the power take-off devices and the time indicating means, and independent releasable means for setting the power take-off devices in predetermined relation with the time indicating means.

1,751,543. MOORING FOR AIRSHIPS. FRANCIS HECTOR CLERGUE, Montreal, Quebec, Canada. Original application filed May 28, 1928, Serial No. 281,066. Divided and this application filed Apr. 4, 1929. Serial No. 352,406. 5 Claims. (Cl. 238—356.)



1. In a device of the class described, a track comprising rail-forming I-beams, supports permanently fixed adjacent to said I-beams, clamps engaging the bases of said beams at one side, and clamps movably mounted on said supports and movable toward and from said bases, adapted to engage them on the opposite side, and locking devices movably mounted on said supports and adjustable relatively thereto to lock said movable clamps in operative positions and to release the same.

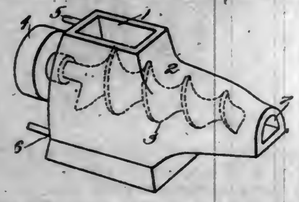
1,751,544. MERCURY SWITCH. PAUL K. CRAMBLET, Milwaukee, Wis., assignor to Time-O-Stat Controls Company, Elkhart, Ind., a Corporation of Maryland. Filed Nov. 24, 1928. Serial No. 321,568. 20 Claims. (Cl. 200—152.)



1. A mercury switch comprising an outer envelope, an inner protective tube of arc resistant material, and means for supporting the tube on the envelope, and including a

supporting ring of glass interposed between the tube and the envelope and a body of cement covering the ring and adhering thereto and to the tube and envelope.

1,751,545. METHOD OF MAKING BOX TOES FOR SHOES. JOHN J. DALY, Newton, Mass., assignor to North American Chemical Company, Boston, Mass., a Corporation of Massachusetts. Filed July 18, 1928. Serial No. 293,512. 9 Claims. (Cl. 12—146.)



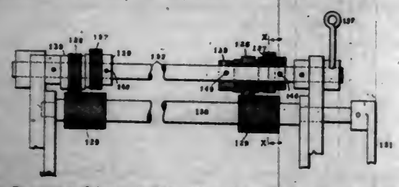
1. The herein described method of making a shoe element such as a box toe blank, filler piece, or the like, consisting of reducing the material to a plastic condition and forming the same into a bar having a cross section corresponding approximately to the shape of the ultimate article, then slicing said bar transversely into successive leaf-like blanks of said shape, and then subjecting the same to a finishing treatment under pressure.

1,751,546. METHOD OF ORNAMENTING SHEET RUBBER. ALFRED A. GLIDDEN and FRANK D. BEAN, Watertown, Mass., assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Delaware. Filed Oct. 26, 1928. Serial No. 315,306. 3 Claims. (Cl. 41—26.)



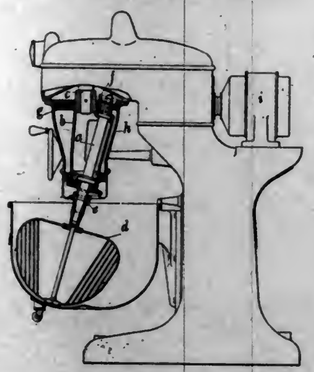
1. The method of ornamenting sheet rubber which consists in passing sheet rubber between a pair of calender rolls, one of which is pebbled, then applying powder to the pebbled surface of the sheet, then removing the surplus powder, and subsequently printing a design comprising a plurality of groups of parallel lines, the lines of each group being positioned at different angles to lines of the other groups.

1,751,547. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed Nov. 20, 1923. Serial No. 675,801. 23 Claims. (Cl. 282—21.)



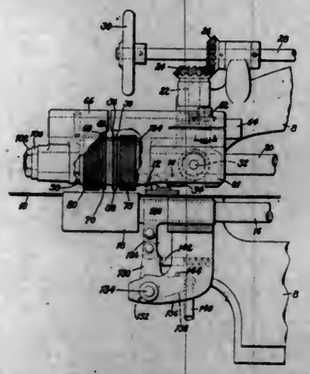
1. In a machine of the class described, in combination, a plurality of means adapted independently to advance a web having apertures and adapted to be rendered ineffective to advance said web by engagement with an aperture, said means being laterally spaced from each other, and means for rendering each of said advancing means operative one alternately with the other.

1,751,548. MACHINE FOR THE MIXING, AERATING, AND LIKE TREATMENT OF VARIOUS MATERIALS. LAURENCE SEYMOUR HARBER and JOHN EDWARD POINTON, Peterborough, England, assignors to Baker Perkins Company Incorporated, New York, N. Y. Filed July 23, 1928, Serial No. 294,780, and in Great Britain Aug. 9, 1927. 1 Claim. (Cl. 74—34.)



The combination with a frame, a fixed casing thereon including a fixed toothed annulus at its upper end and a journal bearing at its lower end, a rotatable pin coaxial with the annulus and carried by the frame, a housing fixed to said pin and rotatable therewith, the lower end of said rotatable housing journaled in the lower bearing of the fixed casing for rotation therein, the upper and lower parts of the rotatable housing formed with spindle-receiving bearings, an angularly disposed spindle journaled in said bearings, the upper end of said spindle above said upper bearing carrying a pinion meshing with said toothed annulus.

1,751,549. MACHINE FOR OPERATING UPON BLANKS OF SHEET MATERIAL. ERNEST HOPE and ALFRED EDWARD RICHARDS, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 4, 1924, Serial No. 735,863, and in Great Britain Sept. 6, 1923. 18 Claims. (Cl. 164—60.)



1. In a machine of the class described, a driving shaft carrying a grooving tool, a work support fixed relatively

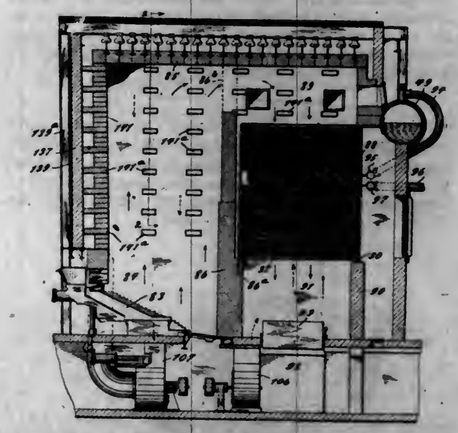
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to the axis of said shaft and tool, a work-feeding roll mounted upon the shaft in driving connection therewith, said roll being normally coaxial with the shaft, and compressible means between the roll and the shaft arranged to yield transversely of the shaft with variations in the thickness of the work.

1,751,550. PROCESS OF PREPARING ALUMINO-THERMIC MIXTURE. REED W. HYDE, Summit, N. J. Filed Sept. 29, 1928. Serial No. 309,359. 8 Claims. (Cl. 75—17.)

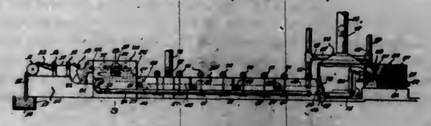
1. The process of preparing alumino-thermic mixtures which consists in sintering metal oxides capable of reduction by aluminum to produce a sinter cake, crushing the sinter and mixing therewith fine particles of aluminum.

1,751,551. BOILER AND SETTING THEREFOR. DAVID S. JACOBUS, Jersey City, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Filed Nov. 3, 1924. Serial No. 747,550. 7 Claims. (Cl. 110—1.)



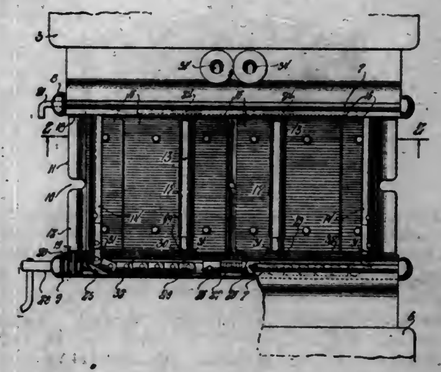
1. An inclined furnace wall comprising an inner wall and an outer wall, both of said walls being substantially flat, refractory members carried by one of the walls and resting against the other wall and slidable over the surface thereof for maintaining said walls in spaced relation while allowing them to expand relatively to each other in a direction substantially parallel to the planes of the walls.

1,751,552. METHOD OF AND APPARATUS FOR DRYING WOOD PULP AND THE LIKE. RICHARD D. KEHOE, New York, N. Y. Filed Feb. 15, 1928. Serial No. 254,576. 11 Claims. (Cl. 34—12.)



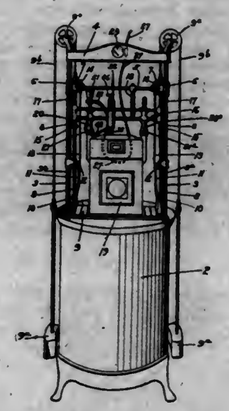
1. A pulp drying apparatus, including a primary heating chamber, heating means therefor, means for directing the pulp through such chamber, a secondary heating chamber including independent heating zones through which air is directed, heating means for the air in each of such zones including heat interchangers through which the air is directed after passing through the pulp, to thereby initially raise the temperature of the air, and means for directing the exhaust from the primary heating chamber through said heat interchangers for heating the latter.

1,751,553. LOOSE-LEAF BINDER. ADOLPH G. LOTTER, Milwaukee, Wis., assignor to Stationers Loose Leaf Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 26, 1928. Serial No. 321,906. 4 Claims. (Cl. 129—1.)



1. A binder of the character described having a pair of binder heads, a telescoping post, a substantially flexible post connecting the heads, and means for actuating the flexible post to move the binder heads toward and away from each other, the telescoping post holding the binder heads in proper relative position.

1,751,554. METER-TESTING APPARATUS. JOHN T. LUCAS, Minneapolis, Minn., assignor to American Meter Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Jan. 12, 1924. Serial No. 685,836. 10 Claims. (Cl. 73—51.)

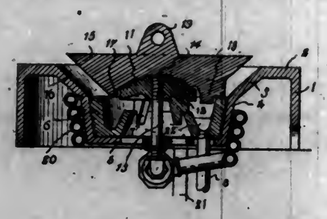


1. Meter testing apparatus comprising a conduit for supplying fluid under pressure to one chamber of a meter, a second conduit having one end adapted to communicate with the interior of another chamber of the meter, means for indicating the presence of fluid pressure at the other ends of said second conduit, and a manually controlled valve operatively positioned between said conduits.

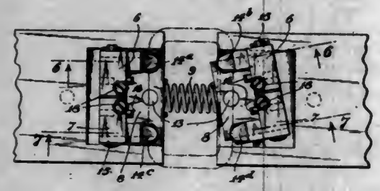
1,751,555. HYDROCARBON BURNER. HARRY L. MAXFIELD and WALLACE E. MIKKELSON, Janesville, Wis. Filed Mar. 8, 1928. Serial No. 260,079. 3 Claims. (Cl. 158—67.)

1. A hydrocarbon burner including a hollow base and having the inner wall comprising an upper flared portion

and a lower tapering portion, a vaporizing coil disposed within the space of the base and lying close to the lower tapering portion of the said inner wall, a burner supported within the lower tapered portion of the base, and a spreader disposed above the burner and flared to conform to the flared portion of the base to form therewith a flared flame outlet.

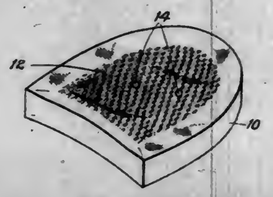


1,751,556. COVER-SEPARATING MEANS. JOSEPH PEYSER, Mount Vernon, N. Y. Filed Apr. 13, 1927. Serial No. 183,443. 20 Claims. (Cl. 113—114.)



1. Separating means, for a stack of blanks, including: a separating member movable toward and away from the stack to engage between adjacent blanks and supporting means for said separating memebr to admit of its yielding, in response to opposition encountered by said member when engaging the stack, in a direction different from its path of movement.

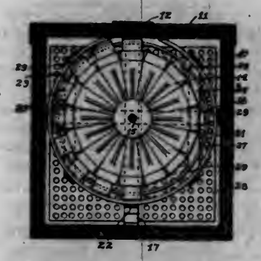
1,751,557. RUBBER TREAD FOR SHOES. CLIFFORD ROBERTS, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 2, 1928. Serial No. 289,798. 11 Claims. (Cl. 36—35.)



7. A rubber heel element consisting of fabric woven of paper cord.

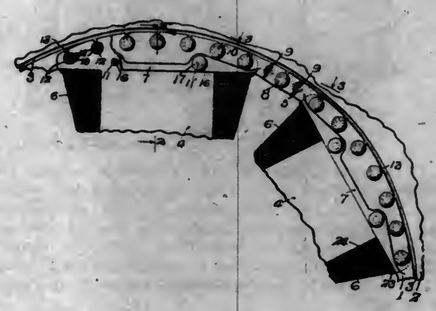
1,751,558. BOTTLE COOLER. JOHN M. SCHILLING, Lima, Ohio. Filed Sept. 22, 1928. Serial No. 307,645. 19 Claims. (Cl. 312—36.)

1. In a bottle cooler, the combination of a casing, rotary bottle carriers, a framework supporting said carriers in substantially vertical planes for rotary movement in said casing, riding tracks around said carriers for holding bottles therein, and guide tracks in planes substantially parallel with the planes of said riding tracks for engaging bottles in said carriers to hold said bottles on said riding tracks, said framework including laterally extending bars supporting said tracks and legs extending below said tracks and below the lowermost one of said supporting bars to rest upon the bottom of said casing and holding said tracks



a substantial distance above the bottom of said casing constituting the lower part of said casing a refuse receptacle below said tracks, said tracks having substantial clearance spaces around them permitting foreign matter to pass freely into said refuse receptacle.

1,751,559. METHOD OF STANDARDIZING THE MANUFACTURE OF DYNAMO-ELECTRIC MACHINES. THEODOR SCHOU, Mansfield, Ohio, assignor to The Ideal Electric & Manufacturing Company, Mansfield, Ohio, a Corporation of Ohio. Filed Mar. 21, 1928. Serial No. 626,452. 14 Claims. (Cl. 172—120.)

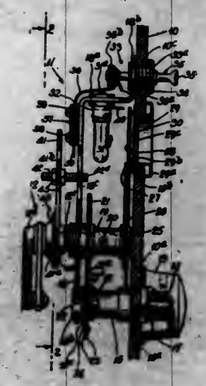


2. The method of constructing a squirrel cage winding for a dynamo electric machine which consists in assembling ring segments in a series corresponding to the pole-pieces of a dynamo electric machine, securing the segments in parts to the opposite sides of the pole-pieces respectively in electrically effective relation to each other, and then driving conducting wedge members between and in electrical contact with adjacent ends of the segments to secure continuous electrical conductivity through the rings.

1,751,560. ATTACHMENT FOR CONNECTING TUNING UNITS TO DIAL CONTROLS. SAM A. SHAPIRO, Bronx, N. Y., assignor, by mesne assignments, to Arthur Dorsey, New York, N. Y. Filed Dec. 20, 1926. Serial No. 155,968. 2 Claims. (Cl. 175—41.5.)

1. In an apparatus of the character described, having an adjusting device comprising a stator and a rotor, means cooperating with the rotor of the adjusting device for adjusting the same, common means to mount the adjusting device and the adjusting means upon a panel, a plate

adjustably fixed with the stator of the adjusting device, a slot in the plate, a slot in the mounting means, and a



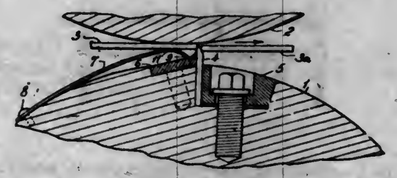
pin adjustably fixed in one of the slots extending into the other slot, whereby the stator of the adjusting device is prevented from rotating with the rotor thereof.

1,751,561. MANURE-SPREADER BODY. ERNEST C. SMITH, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Aug. 25, 1927. Serial No. 215,290. 7 Claims. (Cl. 280—80.)



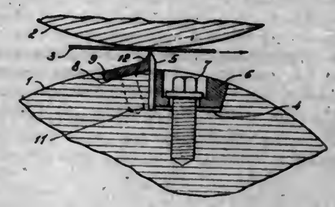
1. In a manure spreader, a rear axle, a pair of longitudinal sills having portions bent down so as to pass beneath said rear axle and disposed throughout the major portions of their lengths with their top surfaces above the lower side of said axle, bearing boxes located between the bent portions of each sill, and a tight fixed bottom supported by said sills with its under surface just clearing the top of said axle.

1,751,562. SHINGLE STRIPPER. DANIEL STINGER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Oct. 22, 1925. Serial No. 64,081. 4 Claims. (Cl. 164—66.)



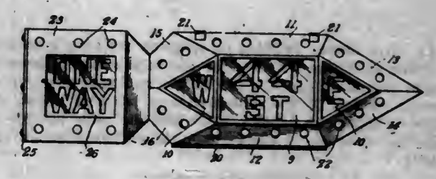
1. In combination a roll, a knife protruding substantially radially from the surface of said roll and a resilient strip-like member secured to the roll at that end of the strip which is the more remote from the knife, and having an intermediate portion which is normally at a greater radial distance from the surface of the roll than is the knife edge.

1,751,563. SHINGLE-CUTTING KNIFE. DANIEL STINGER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Oct. 22, 1925. Serial No. 64,082. 7 Claims. (Cl. 164—66.)



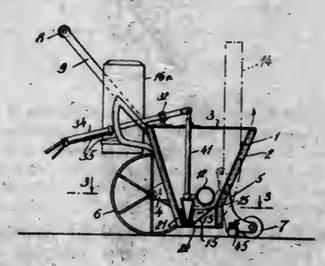
1. A cutting roll, a knife located in a longitudinal recess in the circumferential surface of said roll and protruding therefrom and a back stop secured to the roll in contact with the protruding portion of the knife.

1,751,564. STREET SIGN AND TRAFFIC SIGNAL. EDMUND J. STONE, New York, N. Y. Filed Apr. 12, 1928. Serial No. 269,499. 4 Claims. (Cl. 40—132.)



1. A street intersecting sign comprising a pair of casings extending in the direction of the intersecting streets, panels in the fronts of said casings to show respectively the name of the streets and direction in which the streets extend, said panels being removably engaged, cover plates hinged at the rear of said casings, lamp containers communicating with remote ends of said casing, a series of differently colored lamps in each container to show through the casing panels, and transparent panels in the front walls of said containers bearing legends relating to the streets.

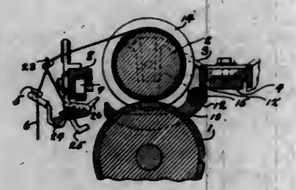
1,751,565. DEVICE FOR SPREADING BITUMEN. CHARLES G. TALBOTT, Stamford, Conn., assignor to The Barrett Company, a Corporation of New Jersey. Filed Nov. 2, 1926. Serial No. 145,747. 5 Claims. (Cl. 91—30.)



1. In a device for spreading bitumen, the combination of a tank having a longitudinal slot in the bottom thereof,

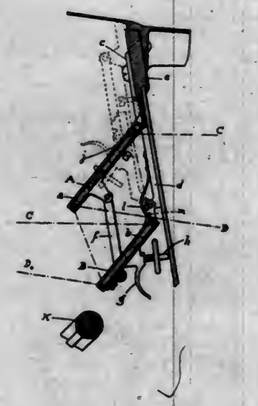
sloping walls positioned in the bottom of said tank defining a plurality of smaller aligned slots and forming valve seats in conjunction with said smaller slots, and a plurality of selectively operable tapered valves adapted to seat in said valve seats for controlling the amount and extent of distribution of bitumen from said tank.

1,751,566. BOBBIN HOLDER. PACIFIC J. THOMAS, Philadelphia, Pa., assignor to Fletcher Works, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 17, 1928. Serial No. 326,488. 11 Claims. (Cl. 117—28.)



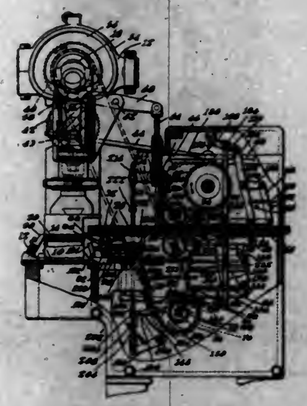
11. In a thread twisting or spinning machine a bobbin, a frame providing bearings for the bobbin, and a pivoted cradle extending beneath the bobbin and normally out of contact therewith and automatically movable about its pivot to engage the bobbin and raise the same out of its bearings upon the breakage of a thread being led to the bobbin.

1,751,567. NONGLARE FRONT-VIEW MIRROR. FRANK L. O. WADSWORTH, Pittsburgh, Pa. Filed Mar. 24, 1927. Serial No. 177,991. 8 Claims. (Cl. 88—67.)



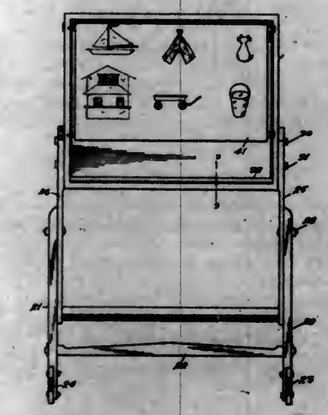
7. A non-glare front vision mirror for vehicles, which comprises two substantially opaque reflecting surfaces mounted in approximate parallelism with each other, one of the said surfaces being of the non-glare type, and having a composition adapted to completely absorb a substantial portion of the light incident thereon.

1,751,568. MACHINE FOR CUTTING SHEET MATERIAL. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 30, 1926. Serial No. 125,987. 26 Claims. (Cl. 164—21.)



1. In a machine for operating upon sheet material, a die, means for cutting sheet material into sections approximating the size of the die, a member positioned between the die and the cutting means for receiving the sections as they are cut, and means for feeding the material to the cutting means and the sections to the die.

1,751,569. COMBINATION DESK. ROSS WINSHIP, Valparaiso, Ind. Filed Dec. 10, 1925. Serial No. 74,488. 3 Claims. (Cl. 45—91.)



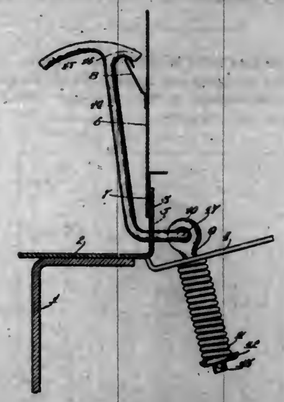
1. In a combination desk of the character described a vertically positioned cabinet having a lid board fitting into the front opening, a base board for the cabinet grooved so as to permit said lid board to set therein, and an L-shaped block secured to the base board of the cabinet with an overhanging portion extending forwardly over a part of the groove whereby the lid may be tilted forwardly and downwardly and then pushed back under the overhanging portion of the block.

1,751,570. TURBINE BLADING. ROBERT C. ALLEN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 21, 1928, Serial No. 263,452. Renewed July 20, 1929. 6 Claims. (Cl. 253—77.)



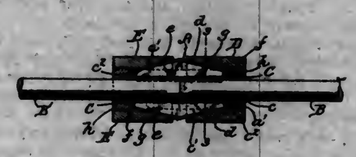
1. In a turbine, the combination of a plurality of blades, each blade having an opening formed therein at a point where the tangent to the deflection curve for a mode of vibration defines approximately the greatest angle with respect to the normal blade radius, and a lashing member passing through the blade openings and fixedly secured to the blades so that its bending resistance opposes deflection of the blades.

1,751,571. HOOD FASTENER. NELS G. ANDERSON, Springfield, Ohio, assignor to International Harvester Company, a Corporation of New Jersey. Filed Oct. 8, 1927. Serial No. 224,843. 6 Claims. (Cl. 292—101.)



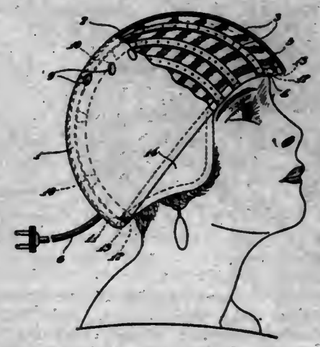
1. In a hood door fastener, a support adjacent the edge of the door, an anchor member on the support, said anchor member comprising a spring pulled eyebolt inside the hood, a catch on the door, and a latch member pivotally mounted in the eye of the anchor member and engageable with the catch to hold the door against the support.

1,751,572. ELECTRICAL CONNECTER. MILES W. BEEMER, Newark, N. J. Filed June 23, 1926. Serial No. 117,902. 2 Claims. (Cl. 173—303.)



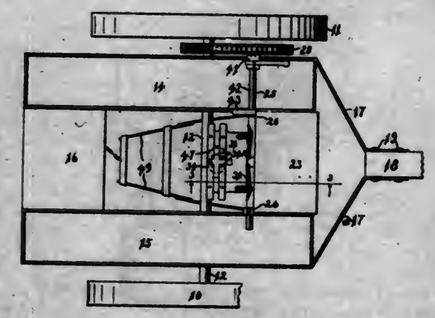
1. In an electrical connection, the combination of a threaded sleeve provided with a plurality of longitudinal slots, a plurality of conductors encased by the sleeve, a plurality of current-conducting bars each seated in one of the slots of said sleeve, each of said bars having electrical contact with the proximate ends of said conductors and each bar extending continuously from its contact with one conductor to its contact with the other conductor, and pressure applying nuts screwed on the threaded sleeve and having wedging contact with said current conducting members for applying pressure to the latter for clamping said members into electrical and tight frictional engagement with said conductors.

1,751,573. HAIR-DRYING DEVICE. ROBERT BISHINGER, Allison Park, Ross Township, Allegheny County, Pa. Filed Mar. 1, 1928. Serial No. 258,154. 8 Claims. (Cl. 34—26.)



1. A hair drying device comprising an electric frame conforming approximately to the head of the wearer, a heating element secured to the interior of said frame and means for spacing said frame and said element from the head.

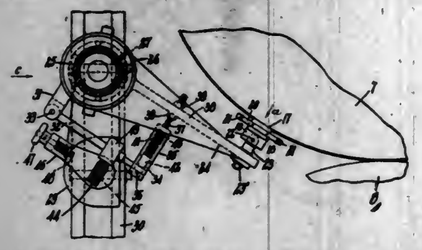
1,751,574. SEED-POTATO CUTTER AND PLANTER. EDWARD O. BRAATEN and OTTO R. HARMER, Northfield, Minn. Filed June 9, 1927. Serial No. 197,563. 2 Claims. (Cl. 146—59.)



1. In a seed potato cutter and planter device mounted on a wheel supported frame having potato carrying means, and a potato cutter housing mounted on said frame; a plurality of fixed cutter blades in said housing and arranged in crossed planes, a rotary multi-winged device rotatable in a plane longitudinally of the normal movement of the planter and mounted on a shaft rotated by suitable power means, said latter device comprising a plurality of radial plate-wings provided each with a central slot opening outwardly at the outer edge of the plate and a cross slot parallel to the said outer edge, four prongs fixed in said plate at the intersection of said slots and projecting upwardly

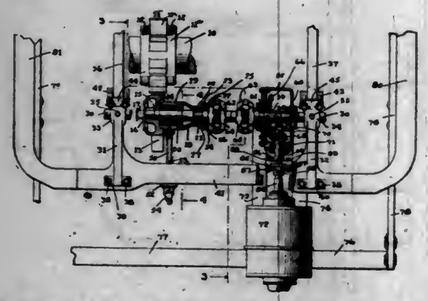
when the plate is rotating in its upward movement, flat elongated cam arms having each an aperture straddling a prong at its inner edge and adjacent the radial slot, said cam arms projecting beyond the sides of the plate and pivoted at said edges, spring means pressing the inner ends of said arms against the plate and the prongs projecting upwardly therethrough, said cutter blades in the housing arranged in the path of said crossed slot to cut a potato held on said prongs in four pieces and each said piece on one of said prongs, and means for removing the potato pieces operative subsequent only to said cutting operation.

1,751,575. GUM-STOCK TRIMMER. JAMES HADDON DAVIDSON and RAYMOND S. WADE, Watertown, Mass., assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Delaware. Filed Apr. 28, 1927. Serial No. 187,393. 11 Claims. (Cl. 164—36.)



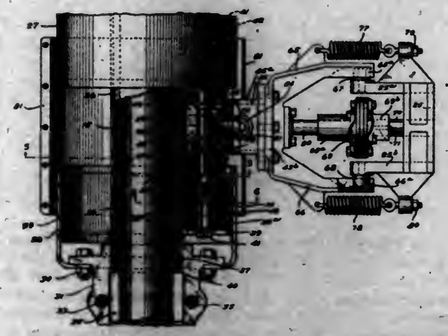
1. A gum stock trimmer having, in combination, a calender roll, a flat cutter blade, its longitudinal cutting edge extending circumferentially of and contacting with the periphery of said calender roll, a holder for said cutter blade, means to adjust said cutter blade about an axis extending radially with relation to said calender roll and transversely of said cutter blade, means to press said cutter blade against the periphery of said calender roll with a yielding pressure, and means to move the cutter blade into and out of contact with the calender roll.

1,751,576. POWER TRANSMISSION. BASSETT M. COFFEE, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Mar. 1, 1922. Serial No. 540,155. 28 Claims. (Cl. 105—113.)



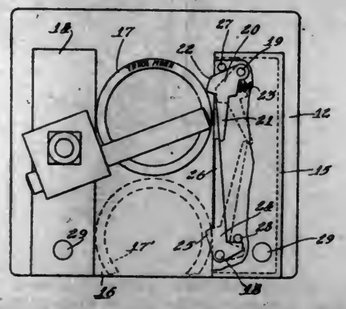
1. In apparatus of the general nature of that herein described, in combination, a car axle, a gear thereon having teeth of sufficient length relative to the pitch diameter to form between adjacent teeth relatively large pockets extending in a radial direction, a gear adapted to be driven from said car axle gear, a generator mounted in substantially fixed relation relative to said car axle, means mounting said second gear to permit it to move toward or away from said car axle gear upon foreign matter lodging therebetween, and means connecting said second-mentioned gear to said generator to drive the latter and adapted to maintain driving connection throughout the relative movement between said two gears.

1,751,577. GENERATOR MOUNTING AND DRIVE. THEODORE S. COLE, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Mar. 26, 1926. Serial No. 97,619. 48 Claims. (Cl. 105—109.)



1. In apparatus of the class described, in combination, a car axle, a truck frame supported by said car axle and in which said car axle is rotatably mounted, a generator mounted upon said truck frame, a shaft connected to drive said generator and projecting therefrom toward said car axle, means geared to the end portion of said shaft and having a frictional driving connection with said car axle, and a support for said last means universally suspended from said truck frame.

1,751,578. STAMPING MACHINE. CHRIST DE YOUNG, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Aug. 11, 1928. Serial No. 298,968. 14 Claims. (Cl. 101—4.)

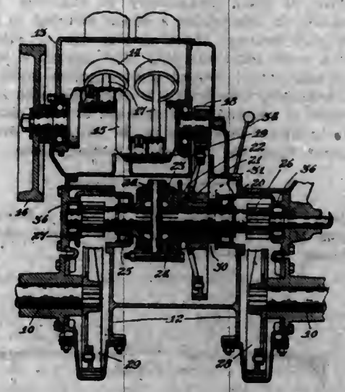


1. The combination with a stamping machine having a punch member and a work holding and feeding table including a work passage-way, of means at one side of the passage-way for holding a piece of work in position to be stamped by the punch member, and means at the same side of the passage-way for releasing said holding means controlled by a second piece of work fed along the table.

1,751,579. TRANSMISSION MECHANISM FOR TRACTORS. GUSTAF W. ENGSTROM, Riverside, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Original application filed July 28, 1922, Serial No. 578,071. Divided and this application filed June 4, 1925. Serial No. 34,784. 6 Claims. (Cl. 74—99).

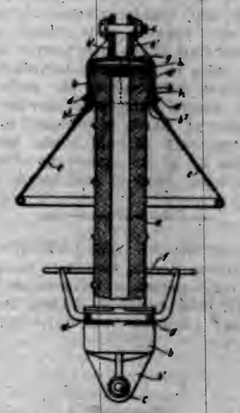
1. The combination with an engine having a crank case, of a transmission casing on top of which the crank case is mounted, a crank shaft journaled in the crank case and having a gear fixed thereon, two differential shafts journaled in the transmission casing, differential gearing

connecting the differential shafts, a driving gear rotatably mounted on one of the differential shafts, a clutch adapted to connect the driving gear and differential gearing,



means for operating the clutch, two spaced stub axles journaled in opposite sides of the transmission casing, a gear on each stub axle, and a gear on each differential shaft in mesh with each gear on the stub axles.

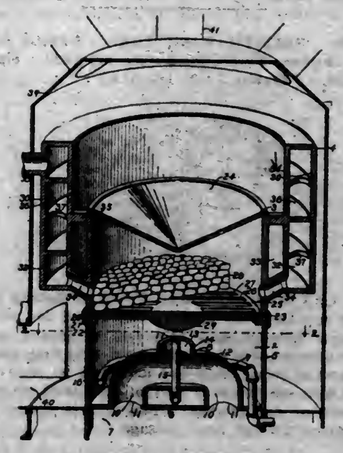
1,751,580. ELECTRIC INSULATOR. HARRY ALEXANDER EWEN, Shenfield, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 1, 1925, Serial No. 19,763, and in Great Britain Apr. 4, 1924. 4 Claims. (Cl. 173—318.)



3. In combination, a cylindrical insulator having enlarged end portions, two-piece caps surrounding the end portions and having thickened clamping rings, clamping means on said caps, shackle means on each cap, protecting means for the insulator, and supports held by the clamping means for supporting said protecting means.

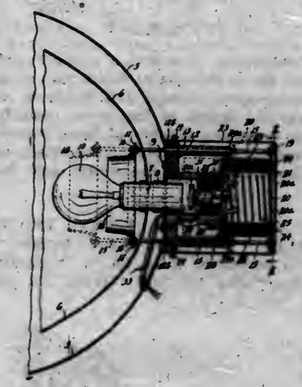
4. In combination, an insulator, removable split end caps fastened by clamping bolts, a weather shield attached to one of said end caps by means of its clamping bolts, and a corona screen attached at the other of said end caps by means of its clamping bolts.

1,751,581. HEATING DEVICE. ARTHUR RAYMOND GOULD, Kansas City, Kans. Filed May 17, 1928. Serial No. 278,378. 8 Claims. (Cl. 126—116.)



1. In a device of the character described, a fire pot, a fuel conductor provided with an outlet, a flame spreader above the outlet, and an air discharge conduit having spaced air inlets and a common air outlet concentric with the fuel outlet, the air outlet being of smaller cross sectional area than the combined areas of the air inlets.

1,751,582. DIMMER DEVICE FOR HEADLIGHTS. STANLEY J. GRASLEWICZ, Minneapolis, Minn. Filed Apr. 11, 1927. Serial No. 182,710. 6 Claims. (Cl. 240—45.)



1. A headlight with a dimming attachment having in combination, a casing, a reflector within said casing, a lamp socket disposed therein, a lamp in said lamp socket, a tubular shield normally disposed substantially at the rear of said lamp and in front of the reflecting surface of said reflector, a pair of small parallel rods carrying said shield and extending through said reflector, a member of magnetic material secured to the rear of said casing, means carried by said member in which said rods are movable, said member having a central hollow sleeve coaxially arranged with said lamp socket and lamp, an electromagnetic coil movable over said sleeve to which said rods are connected, said coil being movable over said sleeve when energized to move said shield to dimming position substantially over said lamp, a locking means for

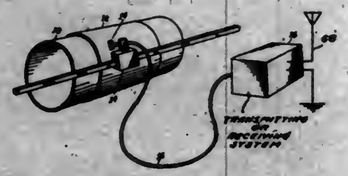
holding said shield in dimming position and an electromagnetic coil within said sleeve adapted to release said locking means and means for moving said shield to normal position.

1,751,583. SELF-THAWING TRAP. HAROLD D. GREGORY, Camden, N. J. Filed July 22, 1927. Serial No. 207,805. 6 Claims. (Cl. 182—11.)



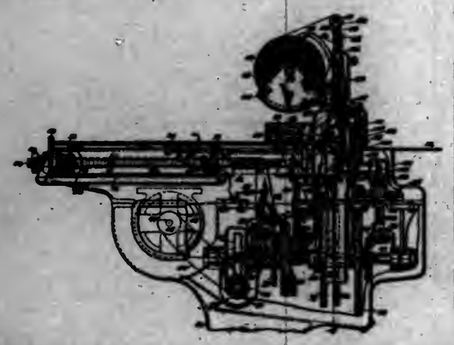
1. A trap of the character described having an inlet opening and an outlet opening and a well for condensate interposed between said openings, of means providing a vapor passage substantially within said well, one end of said passage being open and arranged to receive vapor flowing into said trap by way of said inlet opening, the other end of said passage being open to permit flow of such vapor through said passage.

1,751,584. PICTURE TRANSMISSION. CLARENCE W. HANSELL, Rocky Point, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 13, 1927. Serial No. 212,803. 17 Claims. (Cl. 178—7.)



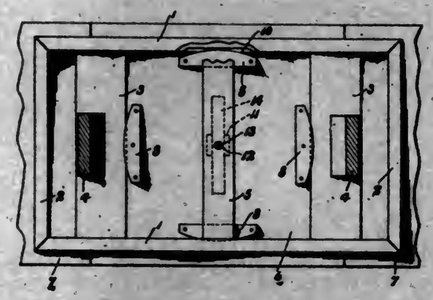
1. In combination, a source of radiant energy, a device located out of the normal direct path of said radiant energy for response thereto, and means to convey said energy from the source to the device comprising a flexible quarts conductor capable of being moved relatively thereto, said conductor having transversely cut ends located in juxtaposition to the source and the device.

1,751,585. MACHINE FOR CUTTING AND WRAPPING MATERIAL. EDWARD C. HEGG, Buffalo, N. Y., assignor to Mojonnier Bros. Co., a Corporation of Illinois. Filed May 10, 1927. Serial No. 190,359. 20 Claims. (Cl. 93—2.)



1. A machine of the character described, comprising means for presenting sections of material, means for feeding a wrapper sheet along one side of said section, a plunger arranged on the opposite side of said section and adapted to push the front side of the same against a wrapper sheet, means for folding said wrapper sheet around said section, and means for holding said wrapper sheet in place preparatory to engaging the same by said section, comprising a detent adapted to press one end of said wrapper sheet against one of said folding blades, a rock shaft carrying said detent, a spring for moving said detent toward the respective folding blades, and a retracting arm which is connected with said shaft and which is adapted to be engaged by said plunger during the backward movement of the latter for disengaging the detent from the respective folding blade.

1,751,586. DROP-LEAF TABLE. JOHN KIMP, Grand Rapids, Mich. Filed Feb. 28, 1928. Serial No. 257,568. 2 Claims. (Cl. 45—9.)



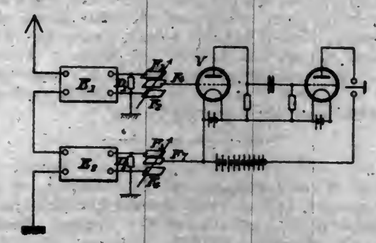
1. In a table structure, a rectangular frame having a greater length than width, a table top located over the frame having a length greater than the width and less than the length of the frame, leaves hinged at opposite ends of the top, boards extended between the sides of the frame near opposite ends thereof, said sides of the frame intermediate of the ends thereof having grooves at their inner sides in the same horizontal plane with said boards, blocks connected to the under side of the top having arc shaped outer sides located in the same circle, the center of which is substantially the center of the table top, each of said blocks having an outwardly projected lip at its under side adapted to pass underneath the inner edges of said boards and into said grooves.

1,751,587. ELECTRICAL HIGH-RESISTANCE UNIT. SIEGMUND LOEWE, Berlin, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 27, 1925, Serial No. 52,885, and in Germany Aug. 30, 1924. 5 Claims. (Cl. 201—75.)



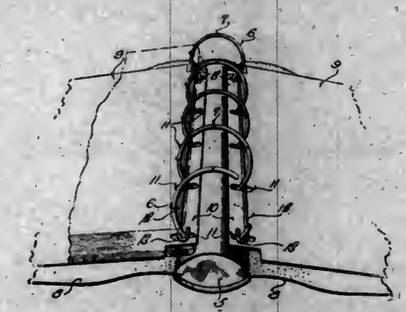
5. A high frequency resistor comprising an evacuated casing, an insulating rod disposed within said casing, an open ended cylinder disposed within said casing and surrounding said rod, a conductor attached to each end of said cylinder and affixed to the end of the rod closest to said cylinder, each of said conductors passing through the end of the casing, said cylinder embodying a vaporizable metal, and said rod surface being provided with a coating of said vaporizable metal.

1,751,588. WIRELESS RECEIVING SET FOR COMPENSATING DISTURBANCES. SIEGMUND LOEWE, Berlin, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed July 27, 1926, Serial No. 125,813, and in Germany Aug. 1, 1925. 8 Claims. (Cl. 250—20.)



1. A wireless receiving system for eliminating disturbances comprising two receiving circuits one of said receiving circuits being tuned to the wave to be received, the other of said receiving circuits being tuned to a wave somewhat different from said former wave, whereby said first circuit will receive said former wave and the disturbances and said second circuit only the disturbances, and connections for the audio outputs of said circuit for balancing capacitively the disturbances received by said first circuit against the disturbances received by said second circuit so as to obtain a combined receiving action of said circuits without said disturbances.

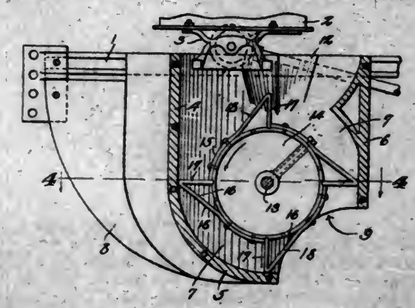
1,751,589. LOOSE-LEAF BINDER. ADOLPH G. LOTTER, Milwaukee, Wis., assignor, by mesne assignments, to Stationers Loose Leaf Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 9, 1928. Serial No. 260,814. 8 Claims. (Cl. 129—4.)



1. In a loose leaf binder including a plurality of spaced concentric rings, a cover member and a plurality of leaves loosely retained by the rings, means disposed between the cover member and the outermost leaves and engaged with the rings, and a member mounted transversely of the rings between said means and the outermost leaves for movement therewith adjacent the rings as the binder is closed to prevent binding of portions of the leaves between the rings and said means.

1,751,590. ATTACHMENT FOR PLANTERS. CLOVIS C. LUTZ, Canton, Miss. Filed Jan. 31, 1927. Serial No. 164,842. 1 Claim. (Cl. 111—84.)

A seed depositing attachment for planters comprising a seed receiving body adapted to be secured beneath the seed container of a planter and comprising parallel side plates joined by narrow forward and rear walls, a rotatable wheel journaled between said plates with its rim closing the space between the plates and having radially extended wings thereon with one surface perpendicular to the rim and forming seed propelling abutments, the forward wall on the body having its lower portion curved on the arc described by the ends of the radially extended wings and contacting therewith, the curved portion of said wall terminating at the under side of the body as a runner-like bottom portion thereof normally resting on the soil when the attachment is in operation and ending there to form a seed outlet, the radial wings wiping the curved portion of said wall to sweep seeds from the end thereof horizontally onto the soil, the upper portions of the side plates being flared to provide an enlarged seed receiving channel immediately above the wheel.

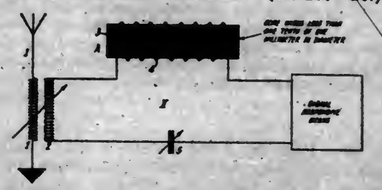


1,751,591. VALVE. GREGORY E. MCCLOSKEY, South Orange, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Mar. 15, 1926. Serial No. 94,631. 2 Claims. (Cl. 251—86.)



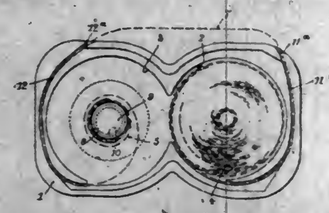
1. In combination, a body comprising two chambers having a wall therebetween, an orifice member fixed in said wall and having an aperture with an apex, and a valve member rotatably positioned on the face of said wall, said valve member comprising a varying valve surface bounded by a segment of a spiral adapted to expose varying areas of said aperture when moved relative thereto, said apex and one end of said spiral segment coinciding to close the aperture in one position of the valve member.

1,751,592. OSCILLATORY CIRCUITS. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Filed Apr. 10, 1925, Serial No. 22,026, and in Germany Apr. 25, 1924. 4 Claims. (Cl. 250—20.)



1. An oscillatory circuit resonant to a desired signal of a predetermined current strength adapted to be used with a signal responsive means, including a tuning condenser and an inductance device connected therewith, said inductance device having a ferro-nickel core so constructed as to reduce eddy current losses to a low value and being adapted to bring said circuit to a non-resonant condition upon an increase of current strength beyond that of said predetermined strength.

1,751,593. FILM HOLDER. ANDRÉ NOËL MEELE, Paris, France, assignor to Pathé Cinema, Anciens Etablissements Pathé Freres, Paris, France. Filed Feb. 7, 1925, Serial No. 7,714, and in France June 28, 1924. 5 Claims. (Cl. 242—71.)



3. An article of the class described comprising a box having two compartments and openings in the side walls of the compartments, one of the compartments being adapted to receive a roll of film, the film passing through the wall openings into the second compartment, a cap adapted for removable disposition on said socket within the second compartment, means for attaching the end of the film to the exterior of the cap, means on the interior of the cap adapted for engagement with a driving element inserted through the socket, a projection on the top end of the cap positioned axially of the cap, and a cover for the box striking the projection when in closed position.

1,751,594. APPARATUS FOR DETERMINING DEVIATION OF WELL HOLES FROM THE VERTICAL. HARRY J. MORGAN, Walnut Park, Calif., assignor of one-half to Charles P. Morgan, Los Angeles, Calif. Filed June 15, 1929. Serial No. 371,181. 14 Claims. (Cl. 116—68.)



1. An apparatus for determining deviation of well holes from the vertical, comprising sound producing means, means for actuating said means, and means operatively connected to the actuating means to permit operation thereof only when the well hole deviates from the vertical.

1,751,595. ELASTIC-BAND STRUCTURE. LOUIS NACHMAN and SAMUEL FINKELSTEIN, Philadelphia, Pa. Filed Dec. 8, 1927. Serial No. 238,486. 2 Claims. (Cl. 2—278.)



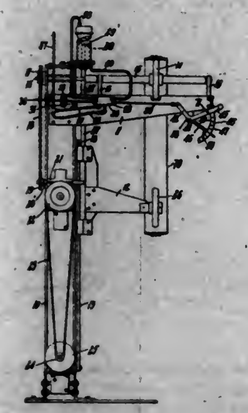
1. An elastic fabricated band for use in the manufacture of garters, sleeve bands, and the like, comprising a seamless tubular knitted fabric flattened into a two-ply band and transversely pleated along its whole length to give longitudinal extensibility at all portions of said length undere tension and capacity to return to its original pleated length, and a flat elastic band extending through the tubular knitted fabric and between the two flat pleated plies thereof, the length of the elastic band when not extended being approximately of the same length as the independent pleated tubular knitted fabric before being extended, and wherein further, the pleatings of the two plies of the seamless knitted fabric are respectively inclined in opposite directions on the opposite sides of the flat elastic band and supported thereby.

1,751,596. MEANS FOR RETAINING BOBBED HAIR. FRANK O'NEAL, Philadelphia, Pa., assignor, by mesne assignments, to The Hump Hairpin Manufacturing Co., Chicago, Ill., a Corporation of West Virginia. Filed Nov. 23, 1926. Serial No. 150,196. 2 Claims. (Cl. 132—50.)



1. A device for retaining bobbed hair consisting of a plurality of flat arms formed integral, one of said arms being corrugated near its end and the other said arm being straight, the extreme end of the corrugated arm being turned inward and upon the next adjacent surface of the flat arm.

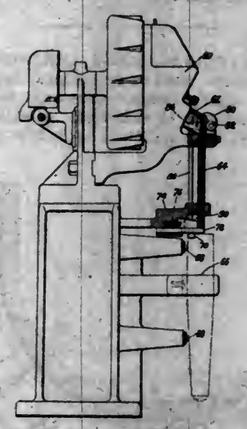
1,751,597. APPARATUS FOR MANIPULATING RUBBER TREADS FOR TIRES. JOSEPH E. PERRAULT, Watertown, and HOWARD G. ELLIS, Waltham, Mass., assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Delaware. Filed May 17, 1927. Serial No. 192,111. 10 Claims. (Cl. 154—9.)



1. A tire tread expander having, in combination, a pair of rotary expander wheels upon which a tire tread may be positioned the width of the rims of said wheels measured longitudinally of their axes being substantially less than the width of the tire tread, and means to move one of said wheels away from and toward the other.

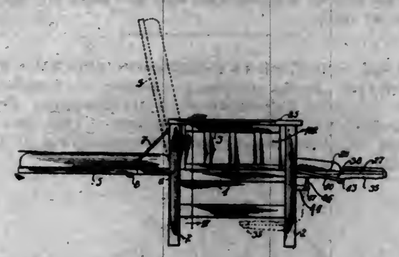
1,751,598. FASTENING-SUPPLYING MECHANISM. ELMER R. POPE, South Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Oct. 25, 1924, Serial No. 745,893. Divided and this application filed May 31, 1928. Serial No. 282,033. 11 Claims. (Cl. 1—49.5.)

1. A fastening supplying device arranged to feed fastenings to fastening inserting means, said device comprising a raceway, a guideway communicating with the outlet of the raceway and receiving fastenings therefrom, means movable to permit and prevent the passage of fastenings from the guideway, means arranged to control the passage



of fastenings from the raceway to the guideway, and connections between said two means operative to cause the first to prevent the passage of fastenings from the raceway to the guideway when the second is moved into position to permit the passage of fastenings from the guideway.

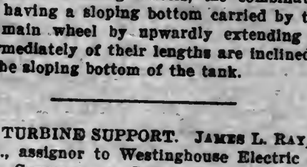
1,751,599. CONVERTIBLE CHAIR. JOHN K. PRASSAS, Chicago, Ill. Filed Feb. 28, 1927. Serial No. 171,410. 9 Claims. (Cl. 155—171.)



9. A convertible chair including a frame, an extensible foot rest thereon, the said rest comprising two sections pivotally connected together, one of the sections being pivoted to the said chair and being arranged to swing between a horizontal and a downwardly directed vertical position, means arranged to swing the other section from a position normal to the first-mentioned section to a position in horizontal alinement therewith as the first-mentioned section is swung from the vertical to the horizontal positions, the said means comprising a member pivoted at one end to the said chair above the pivotal connection of the first-mentioned section on the chair and at the other end pivoted to the other section below and forwardly of the pivotal connection between the two sections.

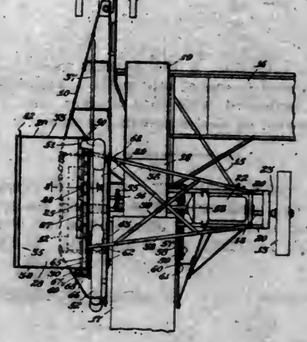
1,751,600. CONVERTIBLE CHAIR. JOHN K. PRASSAS, Chicago, Ill. Original application filed Feb. 28, 1927, Serial No. 171,410. Divided and this application filed Mar. 21, 1928. Serial No. 263,228. 3 Claims. (Cl. 155—163.)

3. A convertible chair comprising a chair frame, a back rest pivoted to said frame, a sprocket wheel, a sprocket chain engaging said wheel and fastened at one end to said back rest, a spring connecting said chain to said frame below the axis of said sprocket to retain said chain always in engagement with said sprocket, a spring pressed detent normally in engagement with said sprocket to prevent rotation thereof, a plurality of connected levers arranged to



release said detent to allow movement of said back rest, a lever pivoted at one end near said sprocket and connected to said detent and to one of the levers of said plurality of connected levers, and means operably connected with one of said connected levers for actuating said connected levers to control said detent.

1,751,601. GRAIN TANK FOR HARVESTER THRASHERS. CLEMMA R. RANEY, Riverside, and ARNOLD E. W. JOHNSON, Chicago, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed June 21, 1926. Serial No. 117,354. 4 Claims. (Cl. 214—65.)

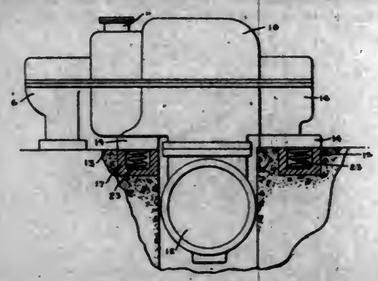


1. In a harvester thrasher having a frame supported on main, grain, and steering wheels, the combination of a grain tank having a sloping bottom carried by the frame above the main wheel by upwardly extending supports which intermediately of their lengths are inclined to form a rest for the sloping bottom of the tank.

1,751,602. TURBINE SUPPORT. JAMES L. RAY, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 23, 1925. Serial No. 77,415. 16 Claims. (Cl. 60—95.)

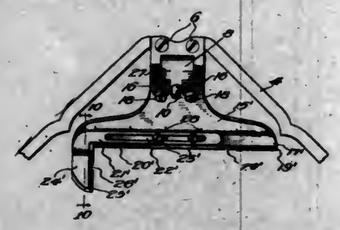
8. In a supporting structure for an elastic fluid turbine, the combination of a foundation, said turbine resting on the foundation, and sliding thereon upon expansion and contraction, means for maintaining the rotational axis of the turbine in the same vertical plane upon expansion, and resilient means interposed between the turbine and the

foundation adapted to carry a portion of the weight of the turbine and reduce friction upon relative movement between the turbine and the foundation, said means being



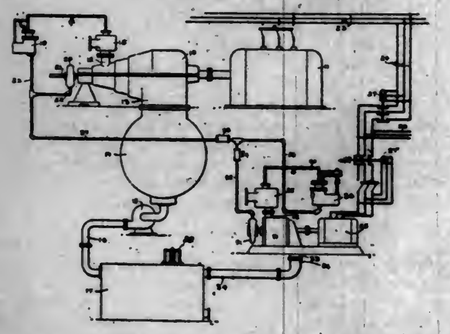
resilient in the direction of support and yieldable in a direction permitting expansion and contraction of the turbine.

1,751,603. CENTERING MEANS FOR BLANK-CUTTING DIES. ERNEST W. SAUERMAN, Chicago, Ill., assignor to Transo Envelope Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 28, 1928. Serial No. 273,471. 8 Claims. (Cl. 164—29.)



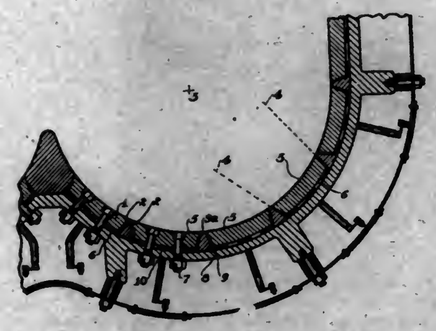
1. In combination, a die having walls, a stationary bracket secured to one of said walls, a supporting member pivotally connected with said bracket, and a centering means mounted on said supporting member.

1,751,604. POWER PLANT. HENRY F. SCHMIDT, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 14, 1925. Serial No. 9,104. 33 Claims. (Cl. 60—95.)



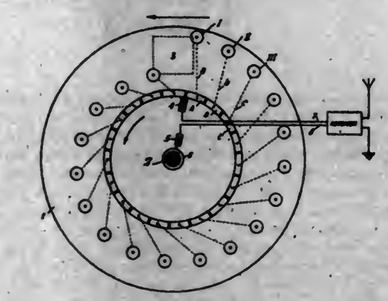
10. In a power-plant installation, the combination of two power-developing units for supplying a variable power demand, motive fluid admission valves for the units, a motor for each admission valve, means for developing a fluid pressure responsive to the speed of one of the power-developing units for actuating the motors, and means associated with the motor of the remaining power-developing unit for compensating for different speed variations in the units, whereby the amount of motive fluid admitted to the two power-developing units is maintained proportionally for various power demands.

1,751,605. HEATING-ELEMENT ARRANGEMENT FOR MIXER BOWLS. EUGENE SCHMIERER, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed May 14, 1928. Serial No. 277,725. 4 Claims. (Cl. 219—19.)



3. In a mixing bowl, heating units whose longitudinal edge walls are disposed so that the working face of the unit is wider than its outer back face, spacer bars received in the space between said adjacent edge walls and held in place thereby, fastening bolts received in holes formed through said units, and grooves formed in the outer convex face of said units between said bolt holes for the purposes set forth.

1,751,606. PICTURE-TRANSMISSION SYSTEM. FRITZ SCHRÖTER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany, a Corporation of Germany. Filed May 25, 1928, Serial No. 280,471, and in Germany June 10, 1927. 2 Claims. (Cl. 178—6.)



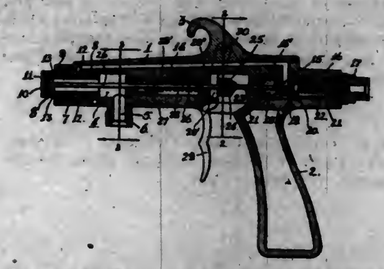
1. A system for reproducing images which includes means for receiving signals corresponding to varying picture densities, a disk, a plurality of light sources arranged in spiral formation about said disk and supported thereby, means for rotating said disk in synchronism with a corresponding element at a transmitting station, means associated with said signal receiving means for sequentially flashing said light sources in accordance with said received signals, and means for maintaining a permanent biasing potential upon all of said light sources for the purpose of maintaining an auxiliary discharge and eliminating the effects of lag in the periodic flashing of said light sources.

1,751,607. METHOD OF CONSTRUCTING FOUNDATIONS. ROBERT L. SMITH, Beaumont, Tex. Filed June 3, 1926. Serial No. 113,565. 3 Claims. (Cl. 61—57.)



1. The method of forming a foundation consisting of drilling a bore into the earth and lowering a single outside tubular piling into said bore, then forming a plurality of cavities one above the other in the earth adjacent the lower end of said piling then lowering an inside tubular piling into the bore and filling said cavities and the space between said pilings with concretious material which forms a support for the piling when the material hardens.

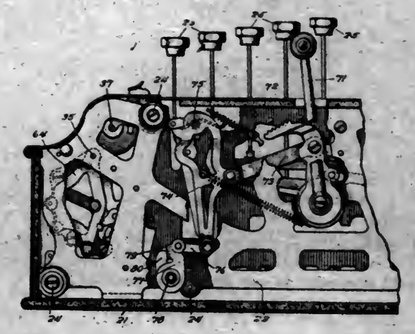
1,751,608. PAINT AND LACQUER SPRAY GUN. FRANK A. TITTSWORTH and CHARLES S. RENWICK, Richmond, Calif., assignors to Hopkins Spray Equipment Company, San Francisco, Calif., a Corporation of Nevada. Filed Feb. 13, 1926. Serial No. 88,022. 13 Claims. (Cl. 91—45.)



1. In a spray-gun, a unitary spray-head comprising a nozzle having a through bore and a discharge orifice solely for the material to be sprayed, said nozzle having in its wall a pair of oppositely disposed longitudinally directed air ducts, the forward portions of said ducts converging on lines inclined to and intersecting the plane of the nozzle orifice whereby the material to be sprayed and air are first brought into contact at the point of intersection of the air ducts with the material stream.

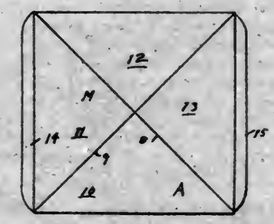
5. In a spray gun having a body including a barrel provided with connections and passages for the material to be sprayed and for the air, respectively, a control mechanism for said material and air comprising a material-discharge control plunger disposed longitudinally within the barrel; an air-inlet control plunger disposed longitudinally within the barrel; and aligned with the material-discharge control plunger; a trigger member fitted in the body of the gun; and means, associated with the adjacent ends of the two plungers, adapted to be successively engaged by the trigger, to move said plungers in timely succession, consisting of a cup carried by the air control plunger, and a head on the material control plunger housed within said cup and longitudinally slidable therein.

1,751,609. CALCULATING MACHINE. JOSEPH A. V. TURCK, Wilmette, Ill., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1923. Serial No. 667,277. 12 Claims. (Cl. 235—82.)



1. In a calculating machine, in combination: ordinal keys; registering wheels; key-driven actuating devices for said registering wheels, including ordinal column actuators; cancelling mechanism; and ordinal locking dogs interposed between said column actuators individually and said cancelling mechanism and rendered operative to block movement of the cancelling mechanism upon partial depression of a corresponding ordinal key for any distance insufficient to register the numerical value of the key on the corresponding registering wheel.

1,751,610. LETTER ENVELOPE SHEET. MIRKO S. YERKOVICH, San Francisco, Calif. Filed Dec. 14, 1927. Serial No. 239,867. 1 Claim. (Cl. 229—92.7.)

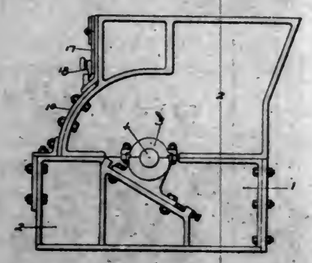


A letter sheet having gummed flaps along two opposite sides, with diagonal folding lines intersecting at the center of said sheet impressed therein whereby the letter sheet may be folded on one of said diagonal lines and then folded on the other and sealed by securing one of the gummed flaps to the other portions of the sheet.

1,751,611. PULVERIZING MACHINE. WALTER J. ARMSTRONG, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 2, 1926, Serial No. 139,155. Renewed June 12, 1929. 14 Claims. (Cl. 83—11.)

1. In a machine of the class described, the combination with a casing, of a pulverizing rotor within the casing, a

feed opening in the casing, an abutment slightly in advance of said feed opening and adapted to intercept mate-

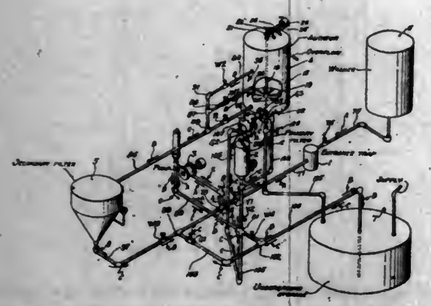


rial projected tangentially from said rotor, and a shelf in position to receive material deflected from the surface of said abutment as and for the purpose set forth.

1,751,612. PROCESS FOR THE MANUFACTURE OF ABSORBENT CARBONACEOUS MATERIAL. OSCAR L. BARNEBEY, Detroit, Mich., and MERRITT B. CHENEY, Briggsdale, Ohio; Josephine B. Cheney, administratrix of said Merritt B. Cheney, deceased, assignor to said Barnebey. Filed May 19, 1921. Serial No. 470,939. 20 Claims. (Cl. 252—3.)

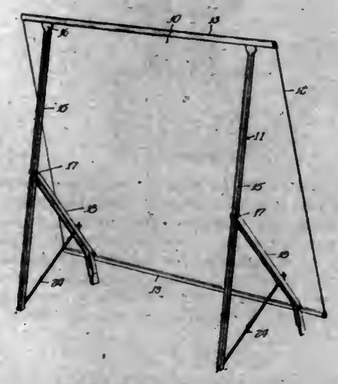
1. The improvement in the art of producing adsorbent carbon consisting in treating carbonaceous material containing between 10% and 60% of its carbon content by weight of tarry matter with an oxygenated gas at reacting temperatures below 900° C.

1,751,613. APPARATUS FOR SALVAGING USED CLEANERS' GASOLINE. WALTER S. BAYLIS, Los Angeles, Calif., assignor, by direct and mesne assignments, to Filtrol Company of California, a Corporation of California. Filed Dec. 21, 1925. Serial No. 76,650. 4 Claims. (Cl. 196—15.)



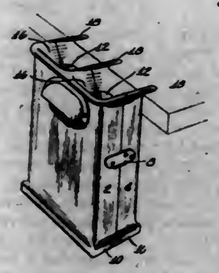
1. An apparatus for refining cleaners' solvent which comprises: a pump; a pump suction line connected to the suction side of said pump; a primary filter; a primary filter intake line connected to the pressure side of said pump and to the intake end of said primary filter; an agitator; an agitator intake line connected to the exhaust end of said primary filter and said agitator; a secondary filter; an agitator drain line connected to the intake side of said secondary filter and to said agitator; a secondary filter exhaust line connected to the exhaust end of said secondary filter and communicating with the suction side of said pump; a storage line in commun' ation with the pressure side of said pump; an intake backwash line extending so as to communicate with the pressure side of said pump and the exhaust side of said primary filter; and an exhaust backwash line extending so as to communicate with the intake end of said primary filter and said agitator.

1,751,614. ADVERTISING DISPLAY STAND. EDWIN A. BORN, Chicago, Ill., assignor to American Colortype Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1928. Serial No. 298,988. 4 Claims. (Cl. 40—125.)



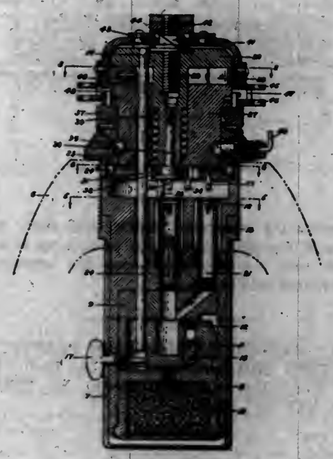
1. In a device of the character described, a stand comprising a bar, a second bar pivoted at its end to an intermediate portion of said first bar, one end of said first bar and the free end of said second bar having a flexible poster therebetween to be tensioned, and means between the free end of said second bar and the other end of said first bar for preventing angular movement of said bars.

1,751,615. COIN HANDLER. WILLIAM C. BOWER, Los Angeles, Calif. Filed Jan. 25, 1928. Serial No. 249,460. 6 Claims. (Cl. 226—14.)



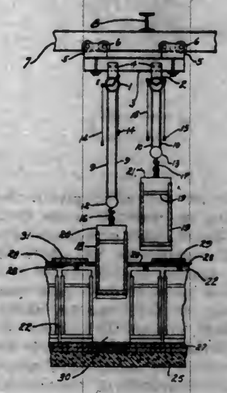
8. In a coin handler, a set of sections provided with mating grooves having flared portions at one end to facilitate the introduction of coins in said grooves, and means associated with said sections for insuring that not less than the required number of coins be stacked in said grooves.

1,751,616. COMBINATION FUSE. HAROLD M. BRAYTON, Dover, N. J., assignor to Secretary of War of the United States of America. Filed Mar. 2, 1925. Serial No. 12,784. 30 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



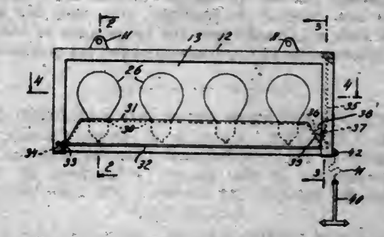
30. A fuse for bombs, including a body, a vane assembly forming a cap for the body and removable during flight, a transverse bolt slidably mounted in the body and containing an element of a firing mechanism, and means secured to the inside of the cap normally holding the bolt in unarmed position.

1,751,617. ICE-HARVESTING DEVICE. GEORGE B. BRIGHT, Detroit, Mich. Filed July 15, 1929. Serial No. 378,491. 8 Claims. (Cl. 62—108.)



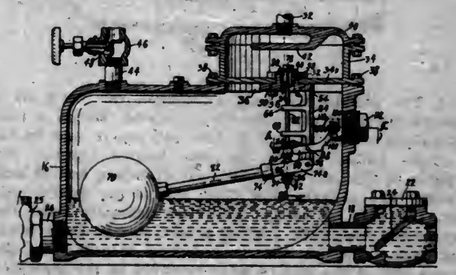
1. In an ice freezing apparatus comprising spaced freezing portions, the combination of freezing units in each of said freezing portions, and means for supporting one of said freezing units over said freezing portions, said means being further adapted to remove another of said freezing units from one of said spaced freezing portions, said means being further supported as a movable unit above said spaced freezing portions of the ice freezing apparatus.

1,751,618. FIRE-EXTINGUISHER SUPPORT. WILHELM B. BRONANDER, Montclair, N. J. Filed Mar. 31, 1928. Serial No. 266,161. 20 Claims. (Cl. 169—26.)



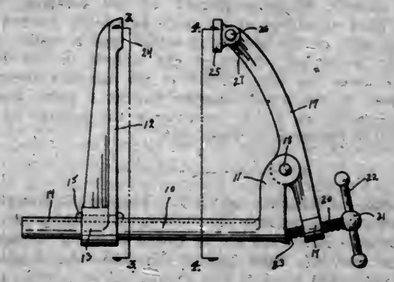
1. A support for grenade fire extinguishers comprising a cabinet, a shelf therein for releasably supporting a plurality of grenades, and movable to release the grenades from said cabinet and means including heat controlled means for releasably supporting said shelf in grenade supporting position.

1,751,619. VACUUM FLUID EXTRACTOR. LYLE W. BROWNE, Marshalltown, Iowa, assignor to The Fisher Governor Company, Inc., Marshalltown, Iowa. Filed May 21, 1927. Serial No. 193,312. 7 Claims. (Cl. 137—103.)



1. In a device of the class described, a casing having in its lower part inlet and outlet passages, a pressure chest on said casing and separated therefrom by a partition member, an opening through said partition member, a tubular flanged member extending through said partition having the flange thereof bolted to said partition member, said tubular flanged member having a bracket projected into the casing and having a valve seat in the pressure chest, a valve for cooperating with said seat having a valve stem slidably supported by the bracket, and a float having an arm pivoted to said bracket and operatively connected to said valve stem.

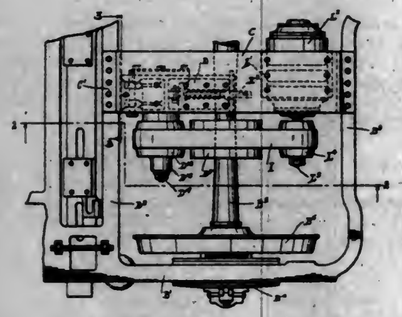
1,751,620. CLAMP. ALBERT CLARKE, Des Moines, Iowa. Filed Apr. 23, 1929. Serial No. 357,407. 1 Claim. (Cl. 144—308.)



A clamping device comprising an elongated bar formed with a standard, a clamping arm slidably mounted on said

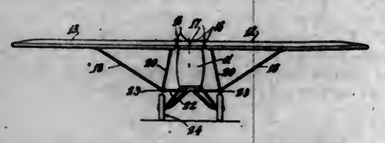
bar, a clamping arm pivoted between its ends on said standard, and a screw device threaded through one end of said pivoted arm and adapted for engagement with the adjacent end of the bar for forcing the other end of said arm toward the coacting arm, said bar being formed with an arcuate face for engagement of the end of the screw device at various positions of the pivoted arm.

1,751,621. GENERATOR DRIVE FOR RAILROAD CARS AND THE LIKE. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 29, 1928. Serial No. 309,168. 11 Claims. (Cl. 105—102.)



1. The combination with a railroad car truck of a generator drive frame removably mounted thereon, a pair of pulleys carried by and in fixed relation to said frame, a drive pulley on the car axle located between the pulleys of the pair, an endless belt extending around said pulleys and engaging the upper side of the driving pulley, the pair of pulleys projecting laterally from the frame and supported thereon at one side of their working faces only, an electric generator mounted on the frame, one of the pulleys being mounted on the generator shaft.

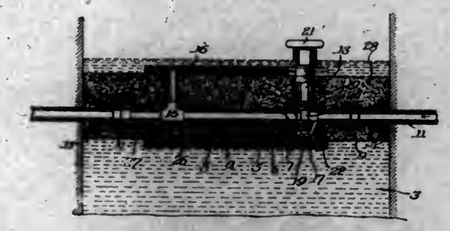
1,751,622. LATERALLY-STABLE AIR VEHICLE. DAVID R. DAVIS, Los Angeles, Calif. Filed Feb. 18, 1928. Serial No. 255,289. 2 Claims. (Cl. 244—29.)



1. A laterally stable air vehicle comprising a fuselage, airfoils hingedly jointed to the fuselage, each hinge joint extending at an angle outwardly toward the leading edge of the associated airfoil, and a means operable by movement of one of the airfoils in one direction to move the other airfoil in the opposite direction, the lines of the hinges intersecting at a point located approximately on a line connecting the centers of lift of the airfoils when in level flight.

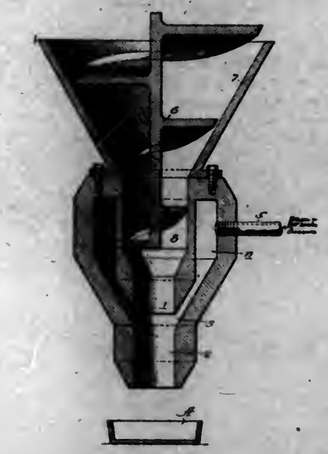
1,751,623. COOLING DEVICE. FRENCH E. DENNISON, Beloit, Wis., assignor to National Refrigeration Corporation, Beloit, Wis., a Corporation of Delaware. Filed Dec. 17, 1926. Serial No. 155,433. 7 Claims. (Cl. 257—201.)

5. The combination with a compartment adapted to contain a liquid to be cooled, of a refrigerant line extending through said liquid, a double wall cylinder within the compartment and surrounding said line, the two walls of said cylinder forming a chamber therebe-



tween, means for circulating refrigerant from said line through said chamber, means for by-passing said refrigerant past said chamber and means for insulating said last means from said liquid.

1,751,624. METHOD OF CHANGING PLASTIC MATERIAL INTO MOLDS. STEPHEN DU BAUL, Jackson, Ohio. Filed May 6, 1926. Serial No. 107,056. 9 Claims. (Cl. 25—155.)

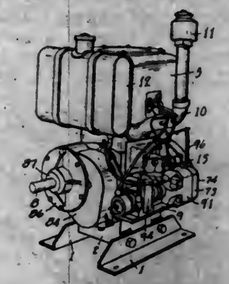


8. The method of delivering plastic material, which consists in feeding the material in the form of a column, from a forming nozzle, past a pressure space, and into a discharge barrel, causing the column to close the nozzle and the barrel against the escape of pressure medium from the pressure space through said nozzle and barrel, and accumulating the fluid medium under progressively increasing pressure around the column of material and thereby constructing the column transversely, and ultimately severing it as it passes said space, the duration of feed prior to severance of the column being regulated by the rate of accumulation of pressure medium at the space.

1,751,625. INTERNAL-COMBUSTION ENGINE. HENRY J. FISHER, Lansing, Mich., assignor to Novo Engine Company, Lansing, Mich. Filed Mar. 25, 1926. Serial No. 97,248. 6 Claims. (Cl. 123—195.)

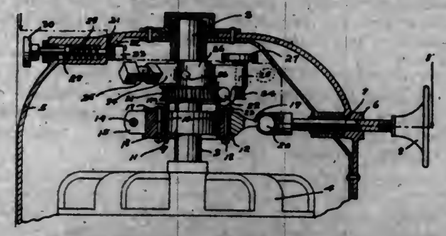
1. In an internal combustion engine, the combination of a main frame comprising a central cuboid block embracing within its surfaces the engine cylinders and

jackets, the crank case or recess, intake and exhaust passages and ports, the valves and valve guides, and also the cam shaft recess in parallel relation to the crank shaft recess, said recesses with bearing apertures at both their ends sufficiently large and identical in form to permit the inversion of the shafts end for end, an invertible crank shaft with pinions at both ends with identical detachable end bearing boxes, an invertible cam shaft with gear meshing with a crank shaft pinion supported by identical bearings at both ends, a cam shaft



and magneto gear train, a separate independent detachable housing unit for such train, a magneto and a detachable bracket for the magneto carried by the said gear train housing, power take-off means at the opposite end of the said crank shaft comprising a train of gears embracing an idler, a detachable power gear train housing including an idler, a removable cover for the said housing, and a power shaft journaled in said cover whereby the structure and gears are invertible and usable at either side of the main frame block, coacting as specified.

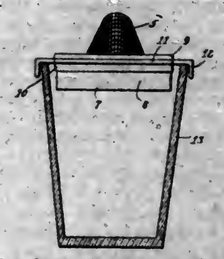
1,751,626. VIBRATOR. SAMUEL E. FOUTS, San Francisco, Calif. Filed May 28, 1928. Serial No. 281,106. 2 Claims. (Cl. 128—52.)



1. In a vibrator, a rotatable shaft, a main eccentric on said shaft, an auxiliary eccentric mounted upon and encircling the main eccentric, a vibrating part, connections between the auxiliary eccentric and said part for vibrating the latter as the shaft is rotated, a member secured to said shaft and rotating therewith, a second shaft journaled in said member, a worm rigid with said second shaft, a worm wheel meshing with said worm, a second worm rigidly connected with said worm wheel, a second worm wheel meshing with said second worm and rigidly connected with the auxiliary eccentric, and means operable at will for causing the said second shaft to rotate on its axis as it is carried about in its orbit, whereby the auxiliary eccentric is adjusted about the main eccentric, for the purpose specified.

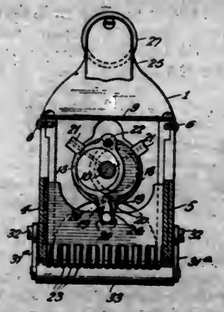
1,751,627. FRUIT-JUICE EXTRACTOR AND STRAINER. CLARENCE S. GLENNY, Rockford, Ill., assignor to The Washburn Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1928. Serial No. 261,088. 3 Claims. (Cl. 146—3.)

3. A utensil of the character described, comprising a substantially quadrilateral pyramidal-shaped body of foraminate material arranged to serve in a reaming or squeezing action to cut juice sacs in fruit for the extrac-



tion of juice therefrom, the said material serving at the same time to strain the juice to separate the pulp therefrom.

1,751,628. MEAT TENDERER. EZEKIEL GUGGENHEIM and HERBERT W. SPELLMAN, Meriden, Conn.; said Spellman assignor to said Guggenheim. Filed Mar. 11, 1927. Serial No. 174,660. 7 Claims. (Cl. 17—25.)



2. A meat tenderer comprising a frame, a plurality of cutters slidable in said frame, each cutter having on its lower edge a plurality of cutting blades, a shaft carried by said frame, means mounted on said frame for rotating the shaft, a plurality of eccentric cams secured on said shaft, eccentric straps surrounding said cams and means for releasably attaching said cutters to said straps.

1,751,629. THEFT-PREVENTING DEVICE. JAMES HARRINGTON, Chicago, Ill., assignor to Pines Winterfront Company, Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,087. 8 Claims. (Cl. 70—90.)



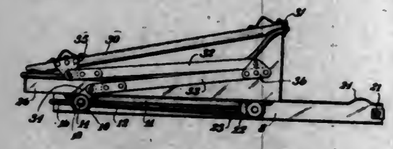
1. In a theft preventing device, the combination of a substantially cylindrical member having a threaded aperture and a noncircular end, with a casing member having a bore to receive said cylindrical member, said casing member having a second transverse bore intersecting said first-mentioned bore and said cylindrical member having an annular groove and a lock barrel carried in said second bore having a rotatable locking bolt, said locking bolt being adapted to rotate into said annular groove, and said bolt having a groove adapted to permit passage of said cylindrical member when in unlocked position.

1,751,630. ANODE AND METHOD OF MAKING SAME. WILLIAM J. HARSHAW, Shaker Heights, PAUL M. SAVAGE, Elyria, and FRED K. BEZZENBERGER, Cleveland Heights, Ohio, assignors, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 28, 1927. Serial No. 236,123. 8 Claims. (Cl. 204—4.)



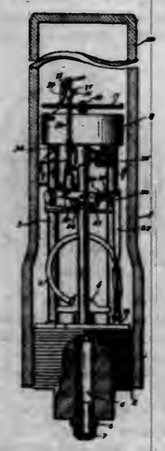
6. A method of making anodes, which comprises heating nickel containing nickel-nickel oxide eutectic to a workable plasticity, and rolling while at such workable temperature.

1,751,631. AIRCRAFT. ELWOOD H. HERRIG, Great Neck, N. Y., assignor to Chance M. Vought, Grenwolde, Great Neck, N. Y. Filed June 23, 1928. Serial No. 287,860. 15 Claims. (Cl. 155—5.)



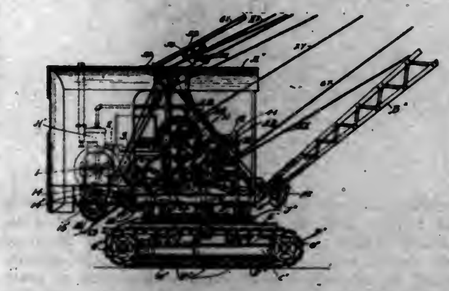
1. In an aeroplane the combination of a body frame and a movable seat mount structure carried thereby including a pair of guideways and a seat frame having frame members spaced longitudinally of the guideways and supported and guided by said guideways for rectilinear movement, with means whereby the seat frame pivots as a unit about certain of the longitudinally spaced frame members as an axis with the other spaced frame members disengaged from the guides.

1,751,632. DEEP-WELL PRESSURE RECORDER. JOHN N. HICKS, Los Angeles, Calif. Filed June 29, 1927. Serial No. 202,220. 9 Claims. (Cl. 234—19.)



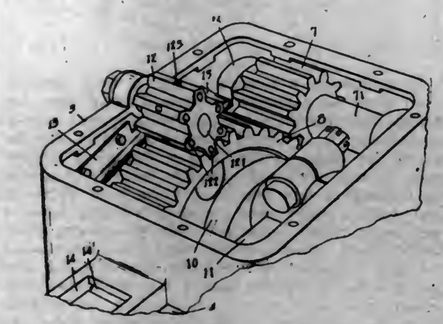
1. In a recording pressure gage for deep wells, having a vertically elongated fluid tight casing, the combination of a frame within the casing, a motor mounted in one end of the casing and having a substantially vertical spindle driven by the mechanism of the motor, a dial carried by the spindle for carrying an indicating chart, a pressure-actuated member within the casing having an opening for admitting the fluid in the well, marking means associated with the dial for marking the chart carried on the dial, and means connecting the marking means and the pressure actuated member.

1,751,633. LOCOMOTIVE CRANE. ALPHEUS E. HOLCOMB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Feb. 2, 1922. Serial No. 533,633. 21 Claims. (Cl. 214—132.)



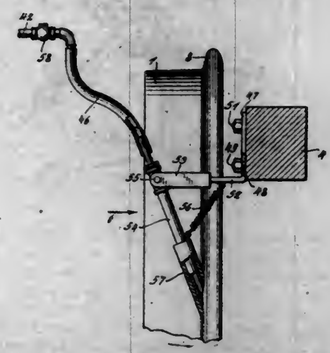
1. In a crane of the class described, the combination of a body, a boom mounted thereon and means for raising and lowering said boom, hoist drum mechanism comprising cable operating and hoisting drums mounted upon the body turntable, adapted to actuate interchangeable cable means to wind on and off said drums and to be connected with the boom for handling different classes of work, a motor, variable speed gearing connecting the motor and the drum mechanism, means to render either or both drums operative at will, and control means for the variable speed mechanism to vary the speed of driving of the drums to accord with the particular kind of cable means being handled by said boom and cable means.

1,751,634. POWER-DRIVEN PUMP. HERBERT G. HOLMES, Lansing, Mich., assignor to Novo Engine Company, Lansing, Mich. Filed Mar. 3, 1927. Serial No. 172,427. 5 Claims. (Cl. 184—11.)



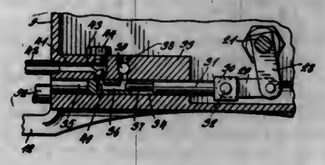
1. In a gear driven pump, the combination of a piston pump with cross head on cross head ways, a gear housing with oil reservoir at the bottom, a driving gear, a main driven gear dipping into the oil space, a crank shaft to which said main gear is connected, a cross head with guides with cross head oil reservoir at the top and pitman connecting the crank to said cross head, oil troughs at each side of the gear housing with elevated central part and passages delivering to the bearing surfaces, and an oiling pinion meshing with the top of said main gear said pinion being provided with longitudinal holes through its teeth with central radial oil receiving apertures whereby the oil carried up by the main gear will be discharged forcibly and laterally to the troughs to flood oil the various bearings, as specified.

1,751,635. FLANGE LUBRICATOR. EMERY C. HOWERTON and ANDREW BERGLIN, Denver, Colo., assignors of one-third to George E. Callahan, Denver, Colo. Filed Sept. 26, 1927. Serial No. 221,922. 2 Claims. (Cl. 184—3.)



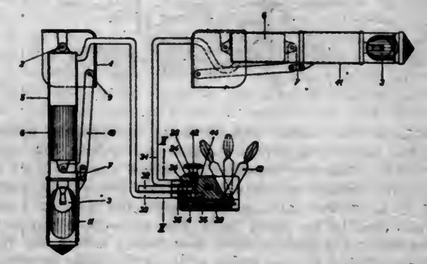
1. In a device for lubricating the flanges of car wheels having a lubricant container, a plunger mechanism for transferring the lubricant and means operated by a moving part of the car for operating the plunger when the car moves, an applicator comprising, in combination a bracket having angularly related arms, one of which has a hole for the reception of a bolt by means of which it is secured to a stationary part of a car, said arm having also a transversely extending slot for the reception of a clamping bolt, whereby the position of the bracket may be adjusted about the center of the other bolt, a short section of pipe, means for pivotally securing the pipe to the other arm of the bracket, a spring extending between the bracket and the pipe and tensioned to exert a force tending to rotate the pipe about its pivot and a nonmetallic tube telescopically connected with one end of said pipe.

1,751,636. PUMP FOR FLANGE LUBRICATORS. EMERY C. HOWERTON and ANDREW BERGLIN, Denver, Colo., assignors of one-third to George C. Callahan, Denver, Colo. Original application filed Sept. 26, 1927, Serial No. 221,922. Divided and this application filed Apr. 7, 1928. Serial No. 268,200. 2 Claims. (Cl. 184—27.)



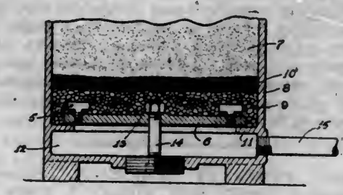
1. A lubricant pump for pressure lubrication, comprising, in combination, a casing adapted to contain oil, a cylinder block formed integral with the bottom and one end of the casing, said block having a cylindrical opening extending the entire length of the block, said block having also a second opening parallel with and spaced from the first mentioned opening, said second opening extending only partly through the block, the second opening lying above the first mentioned opening, said block having a passage connecting the inner end of the second opening with the first mentioned opening, a check valve in said passage, a plug located in the outer end of the opening and extending inwardly beyond the passage containing the check valve, the inner end of said plug having an axial opening and a lateral opening connecting the opening in the plug with the passage containing the check valve, a piston located in the inner end of the first mentioned opening, the end of the piston having a plunger of smaller diameter which extends into the opening in the plug, said plug and block having a passage communicating with the interior of the casing, a shaft extending transversely of the casing and journalled in the sides of the casing, a crank arm carried by the shaft, and a connecting rod for connecting the plunger with the crank whereby the plunger will be reciprocated when the shaft is oscillated.

1,751,637. AUTOMOBILE DIRECTION INDICATOR. BRUNO JABLONSKY, Berlin, Germany. Filed Sept. 15, 1927. Serial No. 219,765. 1 Claim. (Cl. 116—39.)



In a direction indicator for motor vehicle having an induction pipe, the combination of a suction operated member, operating the indicator with a control device comprising a cylinder having three ports therein, one of them open to the atmosphere and pipes connecting the other two ports of said cylinder with the said member and induction pipe of the motor vehicle engine, a control valve fitting within and operable in said cylinder and having passages therein adapted to properly register with the three ports in such a manner as to inter-communicate the port connected to the said member to the port connected to the induction pipe and to the port open to the atmosphere, means for operating said control valve, an auxiliary air passage connecting the port open to the atmosphere with a second outlet to the atmosphere, and a regulating valve in said auxiliary air passage having a triangular opening for varying the amount of extra air drawn into induction pipe by said motor vehicle.

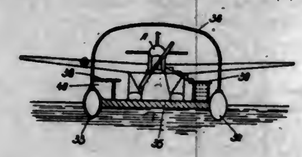
1,751,638. STRAINER NOZZLE. OSCAR W. JOHNSON, Rockford, Ill., assignor to Ward-Love Pump Corporation, Rockford, Ill., a Corporation of Illinois. Filed Sept. 28, 1927. Serial No. 222,554. 7 Claims. (Cl. 210—145.)



1. In a water softener having a distributer plate beneath a bed of water softening material provided with a plurality of openings in substantially uniformly spaced relation, a strainer nozzle for each of said openings com-

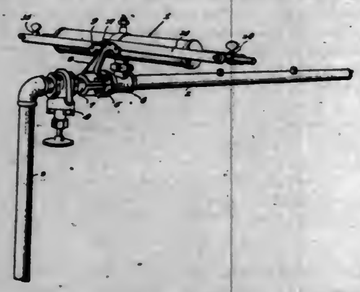
prising a hollow vertical trunk portion mounted in the opening and having one or more hollow branches extending laterally therefrom, the said branches being provided with downwardly directed, outwardly flared, openings therein laterally offset from the trunk portion substantially as and for the purpose described, these nozzles being adapted to be mounted in a series in spaced relation on the bottom, or the equivalent, of a water softener beneath the bed of water softening material and to serve primarily as outlet for the incoming hard water but being arranged to have the direction of flow reversed therethrough.

1,751,639. DOCK FOR FLYING MACHINES. HUGO JUNKERS, Dessau, Germany. Filed Nov. 16, 1927, Serial No. 233,709, and in Germany July 18, 1927. 1 Claim. (Cl. 114—45.)



Means for raising and lowering hydroplanes relative to the water comprising a pontoon-like float the width of which does not considerably exceed the width of the floatation means of a hydroplane, said floats being adapted to be moved into position below the floating hydroplane and to be lifted with the hydroplane supported thereon and a roof on said float which covers the fuselage while leaving the wings of the hydroplane uncovered.

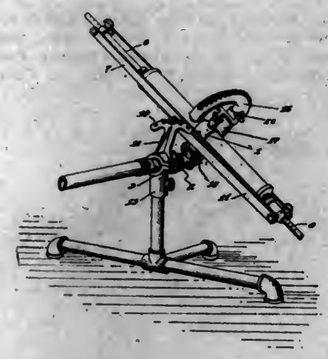
1,751,640. IRRIGATING DEVICE. FREDERICK L. LINDHORST, Detroit, Mich., assignor to White Showers Inc., Detroit, Mich., a Corporation of Michigan. Filed May 15, 1926. Serial No. 109,233. 9 Claims. (Cl. 299—66.)



1. In a liquid distributing system, the combination with a fluid pressure oscillating motor of the type having a stationary element and oscillatable unit, and a spray conduit rigidly secured to said oscillatable unit and movable in unison therewith, of means pivotally and adjustably connecting said stationary element with said oscillatable unit, said adjustable connection between said stationary element and oscillatable unit permitting the position of the central point of the path of oscillation of the motor to be varied.

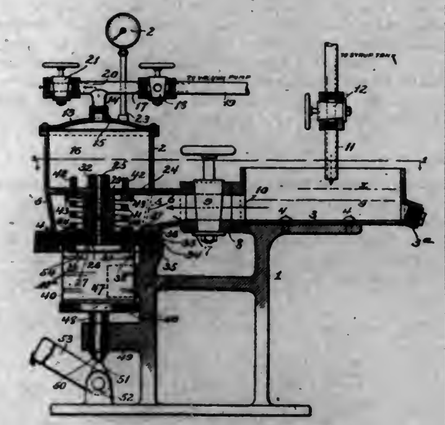
1,751,641. AUTOMATIC SPRINKLER. FREDERICK L. LINDHORST, Detroit, Mich., assignor to White Showers Inc., Detroit, Mich., a Corporation of Michigan. Filed Aug. 7, 1926. Serial No. 127,770. 9 Claims. (Cl. 299—18.)

1. In a liquid distributing system, the combination of an arcuate spray member, means for oscillating the same transversely of the axis of said member, a series of nozzles positioned longitudinally of said member and along



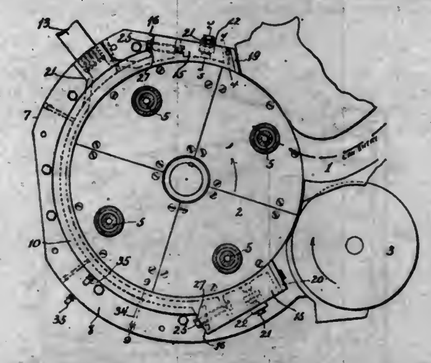
the periphery thereof, and a tubular perforated member secured to each nozzle and extending a substantial distance within the arcuate spray member.

1,751,642. ART OF CANNING. ADOLPH K. MALMQUIST, South Bellingham, Wash. Filed Aug. 2, 1927. Serial No. 210,127. 9 Claims. (Cl. 226—116.)



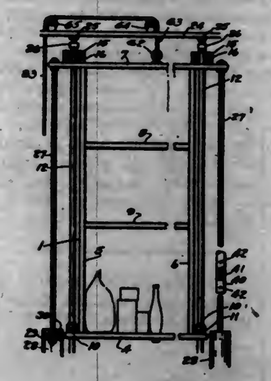
9. In apparatus for filling cans with liquid, a container having a lower liquid chamber, an upper suction chamber, a constantly open means of communication between the suction chamber and the space below the container, a valve normally closing the bottom of the container around said communication means, means for disposing an open-top can against the bottom of said valve, and means whereby the suction chamber may be subjected to suction whereby to exhaust air from the can and open the valve to permit flow of liquid into the can.

1,751,643. VACUUM SEALING CHAMBER. ADOLPH K. MALMQUIST, South Bellingham, Wash. Filed Nov. 12, 1928. Serial No. 318,877. 9 Claims. (Cl. 113—82.)



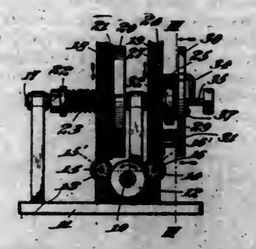
1. In a vacuum sealing mechanism for canning machinery, the combination of a rotary can carrier, a casing having an arcuate vertical wall partly encircling the carrier and extending the full height therefrom, and sealing shoes mounted in the ends of the casing to bear upon the carrier.

1,751,644. AUTOMATIC LOCKING ELEVATOR. ALEXANDER W. MCKENZIE, Seattle, Wash. Filed July 3, 1928. Serial No. 290,208. 7 Claims. (Cl. 187—5.)



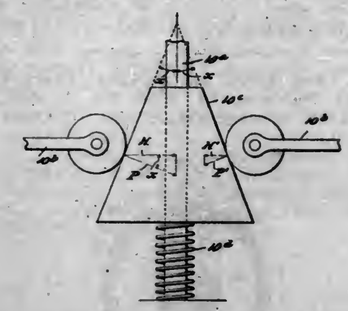
5. In a device of the class described, a carrier having a plurality of compartments, parallel rods between which the said carrier is slidably mounted, suitable rollers on the said carrier engaging the said parallel rods, suitable locking dogs cooperating with the said rollers positioned to prevent the carrier moving in one direction except when the dogs are released, means for releasing the dogs, suitable holding means for the said carrier adaptable to engage and hold each compartment thereof, air compression chambers adaptable to cooperate with the said carrier, suitable pistons and piston rods connecting the said carrier to the said compression chambers, relief valves in the said compression chambers to permit the shelves to move in one direction, adjustable means connecting the said chambers to equalize the pressure therein, an adjustable relief valve in the said connecting means adaptable to regulate the escapement from the said chambers, suitable individual bases at one end of the said compression chambers in which the parallel rods on the respective sides of the carrier are mounted and a counterweight suitably connected to the said carrier.

1,751,645. SERVO MECHANISM. HENRY W. NIEMAN, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Jan. 28, 1925, Serial No. 5,827. Renewed Dec. 26, 1929. 22 Claims. (Cl. 192—51.)



1. A motion transmitting device comprising a power shaft, a drive shaft, a pair of drum members revolubly mounted on the drive shaft and geared to the power shaft so as to rotate in opposite directions, a friction drive connection between each of said drums and the drive shaft, a tensioning device for each of the friction drives adapted to normally maintain the load on the contiguous faces of both friction drives in equilibrium and thereby maintain the drive shaft stationary, and an operator member engaging one of the tensioning devices so that a torque applied to move the operator member effects a corresponding movement of the drive shaft.

1,751,646. MECHANICAL MOVEMENT. HENRY W. NIEMAN, Bethlehem, Pa. Filed Jan. 7, 1926. Serial No. 79,787. 19 Claims. (Cl. 74—14.)

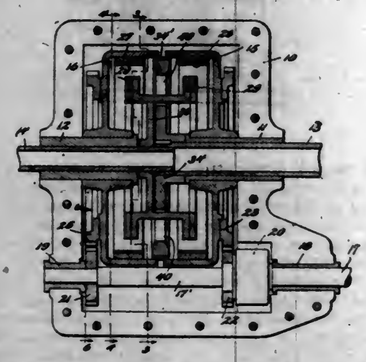


1. In a mechanical movement, in combination, a plurality of force applying elements arranged to move relatively to each other in different directions under the influence of impressed forces, and means for holding said elements against relative movement except under predetermined conditions, when such movement is permitted, said means including a movable member which all of said elements engage, and a guide for said member which effects a reactive force thereon to hold the same stationary when one of said elements is active, movement of said member by said elements being effected only when at least two of said elements act concurrently to jointly produce a force which unbalances any existing reactive force, whereupon said movable member will move to permit relative movement of all of the active force applying elements.

1,751,647. SERVO MECHANISM. HENRY W. NIEMAN, Bethlehem, Pa. Filed Jan. 8, 1926. Serial No. 79,956. 42 Claims. (Cl. 192—35.)

1. A servo mechanism comprising in combination, a rotatable work shaft, two rotatable members having fric-

tion surfaces concentric with the axis of said work shaft, power means for rotating said members in opposite directions, a friction band associated with each rotatable member and having one end operatively connected to the work shaft, and a rotatable control shaft coaxial with the work shaft, a cross arm rigidly mounted on said control shaft and having two spaced parallel ring members secured thereto, said ring members being concentrically arranged with respect to the control shaft, work shaft and friction surfaces, and means connecting the free end of each band to one of the ring members.



40. Mechanism for manipulating a body in accordance with the movements of a control element, comprising in combination with such body, a work member, a control element, a drum having a cylindrical face, a wrapping friction band connecting the control element and work member adapted to frictionally engage said cylindrical face, a power shaft operatively connected to said drum to rotate the same, and means to substantially prevent reversal of said power shaft by forces exerted by said body.

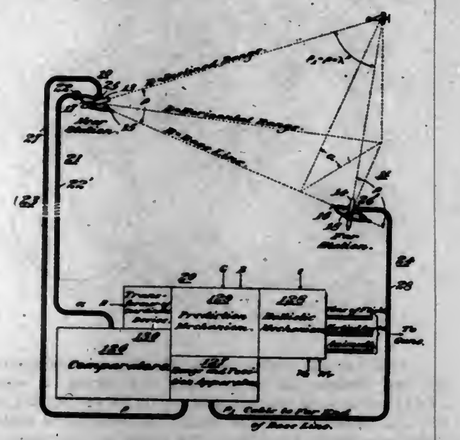
1,751,648. SERVO MECHANISM. HENRY WILLIAM NIEMAN, Bethlehem, Pa. Filed Jan. 22, 1926, Serial No. 83,095. Renewed May 29, 1929. 13 Claims. (Cl. 192—35.)



13. In a sensitive control device, in combination, a member having a cylindrical friction face, a wrapping friction member in constant contact with said friction face, said members being relatively rotatable, and the wrapping friction member having a control end and a power delivery end, and means for neutralizing the drag reactions which normally develop between the friction face and the wrapping friction member, to prevent the wrapping friction member from gripping the friction face in the absence of an applied control force.

1,751,649. FIRE-CONTROL MECHANISM. HENRY W. NIEMAN, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed June 22, 1926. Serial No. 117,735. 34 Claims. (Cl. 235—61.5.)

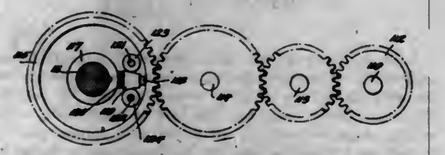
1. In a fire control system, the combination of mechanism to receive instantaneous position determining factors of a moving aerial target, and from such factors and characteristics thereof mechanically and simultaneously to calculate factors determining a future target position, and means for transmitting the future position determining factors from said mechanism.



6. In a fire control apparatus, the combination with first and second telescopes having aligned primary axes, said telescopes being adapted to be trained on a movable aerial target, of a mechanical system for automatically and continuously finding the difference between the secondary angles of the telescopes including mechanically actuated receivers, means for transmitting the secondary angles from the telescopes to the receivers, and means for subtracting the secondary angle of the first telescope from the secondary angle of the second telescope.

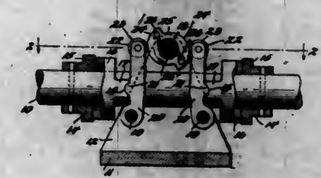
31. In ballistic mechanism for a fire control system, the combination of a cam for correcting for tenuity of the atmosphere, said cam being movable axially in accordance with a function of the time of flight and angularly in accordance with the vertical angle, a pivotally mounted follower cooperating with the cam, an angularly-movable correction element, and manually controlled reversible variable ratio motion transmitting means between the follower and said element.

1,751,650. POWER-TRANSMISSION MECHANISM. HENRY W. NIEMAN, Bethlehem, Pa. Filed June 1, 1927. Serial No. 195,811. 9 Claims. (Cl. 74—36.)



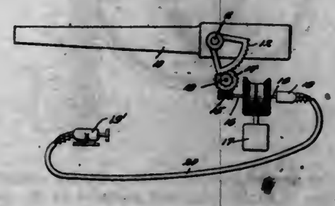
1. The combination with driving and driven members, of means connecting the same whereby the driven member may be driven in either direction by the driving member without occurrence of relative motion or back lash upon the reversal of direction of movement, said means comprising two rigid connecting elements each of which has a portion operatively connected to one of said members, and a device associated with the other of said members and comprising a movable part, a base part rigid with said member, upon which the movable part is mounted and relatively to which it moves, and means urging said movable part to move in one direction, said movable part being engaged by other portions of said connecting elements respectively, the movable part comprising a non-yielding abutment for transmitting driving force between the member on which it is mounted and either of said elements when the driving member is active and being adapted to move said elements in opposite directions to take up play when the driving member is inactive.

1,751,651. THRUST BEARING. HENRY W. NIEMAN, Bethlehem, Pa. Filed June 1, 1927. Serial No. 195,812. 4 Claims. (Cl. 308—163.)



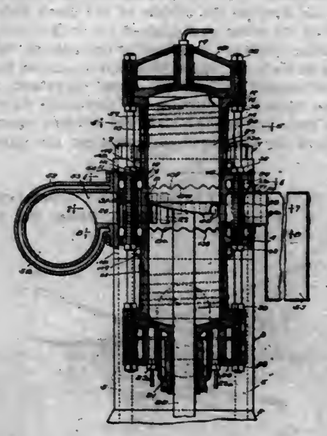
1. A thrust bearing for a shaft or the like subjected to changing direction of thrust, which prevents axial movement of the shaft in either direction at all times including, in combination with a shaft having oppositely facing thrust surfaces and spaced thrust members having thrust surfaces in contact with the thrust surfaces of the shaft, of a base, and mechanism mounted on the base for maintaining the thrust surfaces of the shaft and thrust members, respectively, in constant engagement, said mechanism including a member movably mounted on the base and having opposed surfaces which bear respectively upon the thrust members, and means urging said member in a direction to cause its opposed surfaces to act simultaneously upon said thrust members respectively, to take up lost motion due to wear when the shaft is for the time being transmitting no substantial thrust, which member also constitutes a non-yielding abutment for that thrust member which is active when the shaft is transmitting a substantial thrust.

1,751,652. SYNCHRONOUS AMPLIFYING CONTROL MECHANISM. HENRY W. NIEMAN, Bethlehem, Pa. Original application filed Jan. 8, 1926, Serial No. 79,956. Divided and this application filed July 20, 1929. Serial No. 379,815. 10 Claims. (Cl. 192—35.)



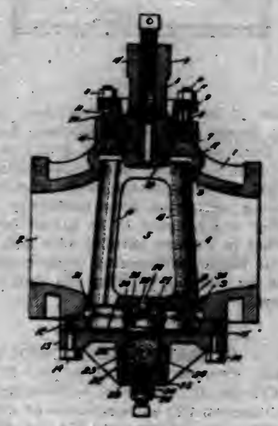
1. The combination with a control motor of the class described, having an indicating member movable under the influence of relatively weak forces to indicate change of condition in or position of a body, substance or instrumentality, and which member is itself capable of exerting an appreciable force only when displaced from its theoretically correct position and is tending to move toward the same, of a work member, a power driven member, and a mechanical connection between the indicating member and the work member having a portion adapted to take power from the power driven member by frictional engagement therewith upon movement of the indicating member of the control motor, whereby movement of the work member is effected by power, the indicating member and work member having corresponding syntactic positions throughout their ranges of movement.

1,751,653. ENGINE CONSTRUCTION. ERNEST NIBBS, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a Corporation of New Jersey. Filed Feb. 3, 1928. Serial No. 251,498. 12 Claims. (Cl. 123—61.)



6. In an internal combustion engine, a bed plate, supporting frames seating on the bed plate, a cylinder block seating on the frames and including cylinder sections, liners at opposite faces of the block and in register with the cylinder sections, said liners being flanged at their outer ends, heads for the liners, bolt rods passing through the block and through the liner flanges and heads, nuts screwed onto the bolt rods and cooperating therewith for removably and adjustably securing the block and the liners and the heads thereof in assembled relation, tie rod bolts anchored in the bed plate and passing through said frames and the block, and nuts screwed upon said tie rod bolts and cooperating therewith for removably securing the bed plate and the frames and the block in assembled relation.

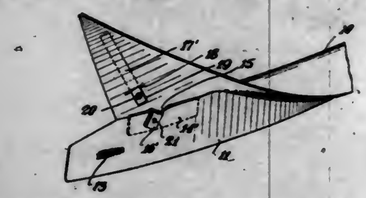
1,751,654. VALVE. SVEN JOHAN NORDSTROM, Oakland, and JOYE C. HAUN, Berkeley, Calif., assignors to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed June 15, 1927. Serial No. 198,891. 6 Claims. (Cl. 251—112.)



1. A valve comprising, a casing having a passageway therethrough and a tapered valve seat formed transversely

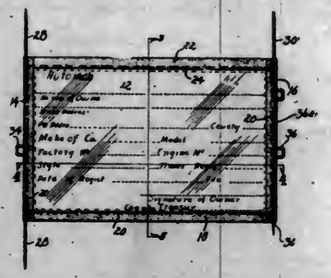
of the passageway, a cover having a central opening secured to the casing for closing the larger end of the valve seat, a gasket interposed between the casing and the cover, a tapered plug seated in the valve seat and having a hole adapted to register with the passageway, a bearing pressing at one end against the middle of the inner face of the gasket and at its other end against the larger end of the plug, a housing slidingly received in the hole in the cover and bearing at its inner end against the center of the outer face of the gasket, powdered mica contained in the housing, and means for putting the powdered mica under pressure to force the inner end of the housing against the gasket to hold the plug resiliently against the valve seat.

1,751,655. COLLAR STIFFENER. JOHN OPPERMANN, New York, N. Y. Filed Apr. 22, 1929. Serial No. 357,020. 2 Claims. (Cl. 2—132.)



1. A stiffener for the wings of turn-down soft and semi-soft collars comprising stiffener members inserted into the inner lining of the collar wings through slots therein, heads on said members projecting from the lining, and plates within the lining of the collar band, sockets formed with said plates having lower turned down mouths adapted to be engaged by the heads of said stiffening members, and a means for locking both members in their engaged positions.

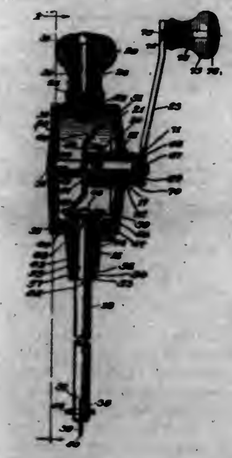
1,751,656. CARD HOLDER AND THE LIKE. SIDNEY ORANSKY, Des Moines, Iowa. Filed July 2, 1928. Serial No. 289,804. 3 Claims. (Cl. 40—10.)



1. A holder of the character described, comprising a normally flat pocket open at one side and formed with a transparent front wall and provided with retaining means on opposite ends, attaching means comprising wires arranged in said retaining means, each wire having oppositely extending sharpened ends projecting beyond said pocket member and adapted to be seated in a fabric to hold the pocket in a plane parallel with and close to the surface of the fabric, said pocket being capable of being bent between its margins to bring the ends of the wires closer together.

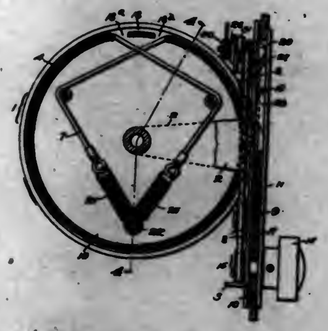
1,751,657. OPERATING MECHANISM FOR VALVE GRINDERS. EDWARD H. PETERSON and NORRIS F. MCNAUGHT, Chicago, Ill., assignors to Duro Metal Products Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1929. Serial No. 360,652. 4 Claims. (Cl. 74—50.)

1. In a valve grinder, the combination of a supporting casing with a shaft rotatably mounted in said casing, a second shaft rotatably mounted in said casing and having means for engaging the valve, a pinion on said second shaft having peripheral teeth diverging toward the first shaft and inclined at substantially forty-five degrees to the axis of the second shaft, and a centrally located mem-



ber on the first shaft having gear sectors adapted alternately to engage said pinion to rotate the latter in opposite directions, the teeth of said gear sectors being disposed at right angles to said pinion teeth and engaging with the inner surfaces of the pinion teeth when in mesh therewith.

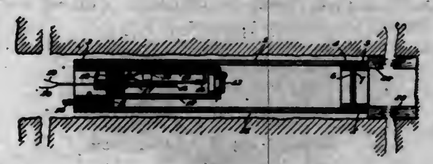
1,751,658. DIAL MECHANISM. WILLIAM A. READY, Brookline, Mass. Filed May 29, 1928. Serial No. 281,561. 11 Claims. (Cl. 116—124.4.)



1. A dial mechanism for radio receivers comprising, in combination, a drum type dial adapted to be secured to an instrument shaft, panel means in front of said drum type dial parallel with the axis thereof, a knob exposed at the front of said panel means and having its axis at right angles to the axis of the drum type dial, driving connections between the knob and the drum type dial including pulleys secured to the dial and to the knob and connected by a flexible connecting element whereby when said knob is turned said drum type dial will be rotated and an opening in said panel means through which markings on the drum type dial are visible.

1,751,659. BLASTING APPARATUS. GEORGE S. RICE, Washington, D. C. Filed Sept. 28, 1927. Serial No. 222,518. 6 Claims. (Cl. 102—6.)

1. A blasting apparatus comprising a closed cartridge shell openable under elevated internal pressure and containing a body of compressed fluid gasifiable under normal temperature and pressure, means within said shell containing separated chemicals adapted upon being brought into



contact with each other to non-explosively generate additional gas to add expansive force to that of said fluid to open the shell, and means for causing said chemicals to be brought into contact with each other.

1,751,660. GREASE GUN. JOHN NELSON SAXTON, Bucyrus, Ohio, assignor to The Grease-Rite Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 17, 1928. Serial No. 247,429. 21 Claims. (Cl. 221—47.4.)



18. In a high pressure grease gun, a low pressure cylinder, a piston for said cylinder, a nozzle, a hollow extensible and contractible connection between said piston and nozzle, a high pressure cylinder within said low pressure cylinder, a piston for said last-named cylinder and adapted to be forced into the same for discharging grease therefrom, and means for positively forcing lubricant into said high pressure cylinder during the return stroke of said last-named piston.

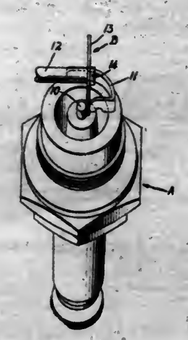
1,751,661. ATTACHMENT OF BRAKE LEVERS TO CONNECTING RODS. FREDERIC SCHAFER, Pittsburgh, Pa. Filed July 14, 1925. Serial No. 43,523. 1 Claim. (Cl. 287—97.)



In a brake rigging for a railway car truck, the combination of a connecting rod having a rigid end formed of two laterally-spaced vertically-disposed walls provided on their adjacent faces with inwardly turned horizontal and vertical flanges forming a plurality of separate pin-receiving pockets open at the bottom of the rod, and a brake lever having an end arranged between said walls and provided with lateral projections lying in a pair of said pockets and engaged by the flanges forming the pockets in which the projections lie, said vertically-disposed walls overhanging the ends of said projections and confining the projections between them.

1,751,662. METHOD OF MANUFACTURING SPARK PLUGS. ALFRED B. SCHUPP, Richmond Hill, N. Y., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 21, 1928. Serial No. 294,445. 3 Claims. (Cl. 29—155.5.)

1. In the manufacture of spark plugs, the method of forming a gap of uniform width between the electrode terminals which consists in originally forming the gap of less width than that desired, providing a rotary grinding

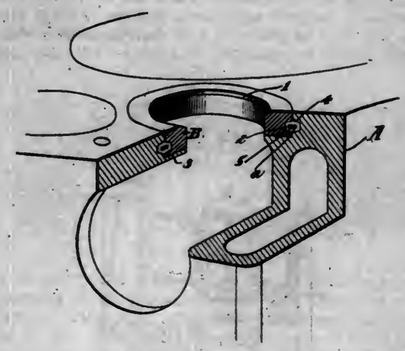


element equal in thickness to the final width of gap desired, and operating said element between the electrodes to cut the gap to the desired width.

1,751,663. PROCESS OF SEPARATING THE CONSTITUENTS OF MINERAL SILICATES. SHERMAN W. SCOFIELD and JOHN B. LA RUE, Cleveland, Ohio; said La Rue assignor to said Scofield. Original application filed May 17, 1922, Serial No. 561,704. Divided and this application filed Feb. 7, 1924. Serial No. 691,217. 2 Claims. (Cl. 23—33.)

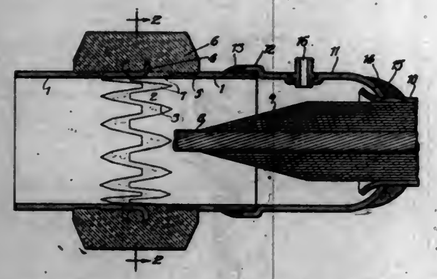
1. In a process of separating the constituents of mineral silicates, the steps which consist, in removing the water soluble potassium value by means of caustic potash digestion and carbonation; and then separating the soluble potassium carbonates into two fractions by evaporating the solution in steps, obtaining each time a saturated solution from which crystalline potassium carbonate and bi carbonate are obtained, until the sodium content is removed, and then concentrating the remainder of the water soluble potassium value to a substantially ten (10) per cent carbonate solution and causticizing.

1,751,664. VALVE SEAT. FREDERICK E. SMITH, Santa Paula, Calif. Filed Nov. 20, 1928. Serial No. 320,573. 3 Claims. (Cl. 123—188.)



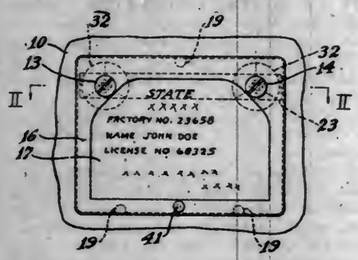
1. As a new article of manufacture, a valve seat comprising an annulus formed with a peripheral groove, and an expansible ring within said groove and adapted to project beyond the periphery of said annulus.

1,751,665. INSULATING JOINT. SEVERN D. SPRONG, Brooklyn, N. Y., assignor to Engineering Products Corporation, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1928. Serial No. 261,241. 2 Claims. (Cl. 173—268.)



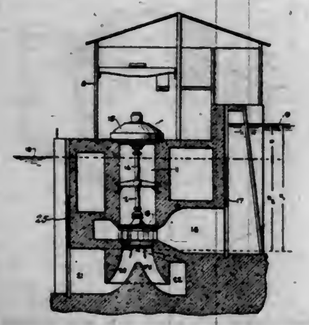
1. An insulating joint for the sheath of an electric cable comprising metal sections with teeth on one section entering notches on the other, the sections being out of contact with each other and being connected by insulating material.

1,751,666. LICENSE-CARD HOLDER. MURRELL A. SUAREZ, Birmingham, Ala. Filed June 6, 1928. Serial No. 283,393. 11 Claims. (Cl. 40—22.)



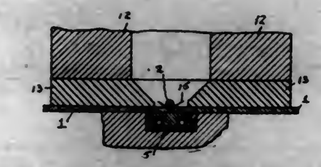
1. In a device of the character described, a frame, a card in the frame, a panel member, means for attaching and detaching the frame member to and from the panel, and means operable by detachment of the frame member for mutilating the card.

1,751,667. HYDRAULIC APPARATUS. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa., assignor, by mesne assignments, to I. P. Morris Corporation, a Corporation of Delaware. Original application filed Dec. 4, 1919, Serial No. 342,383. Divided and this application filed Feb. 1, 1928. Serial No. 251,156. 19 Claims. (Cl. 253—117.)



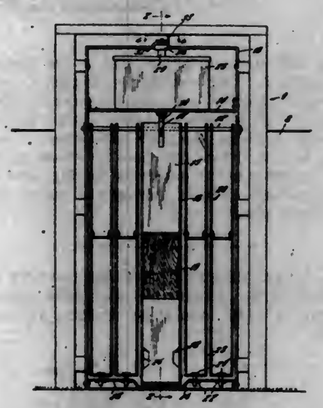
1. The combination with a turbine of a downward flow draft tube and a water sealed vacuum chamber into which the draft tube discharges.

1,751,668. ARC WELDING. MAURICE R. TAYLOR, East Cleveland, Ohio, assignor to The Lincoln Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,450. 7 Claims. (Cl. 219—14.)



1. In metal working by electricity, the steps which consist in establishing an arc between a suitable electrode and a work surface provided with a thin layer of a continuous non-granular carbonaceous material active as a secondary electrode, and relatively moving such work and electrode along the line thereof.

1,751,669. STOCK GATE. WILLIAM P. THATCH, Madison, Nebr. Filed Oct. 27, 1928. Serial No. 315,493. 4 Claims. (Cl. 119—157.)



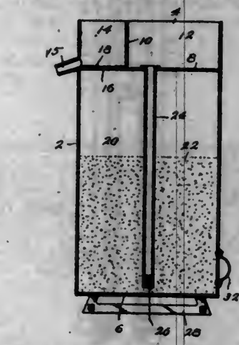
1. In a gate structure of the class described, a frame, a horizontal gate rod on the frame, a plurality of gate sections suspended from said rod, and means whereby said gate sections may be operated separately or together.

1,751,670. PROCESS OF CATALYTICALLY REDUCING ANTHRAQUINONE COMPOUNDS AND NEW HYDROGENIZED PRODUCTS DERIVED THEREFROM. JULIUS VON BRAUN and OTTO BAYER, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1926, Serial No. 91,227, and in Germany Mar. 3, 1925. 8 Claims. (Cl. 260—57.)

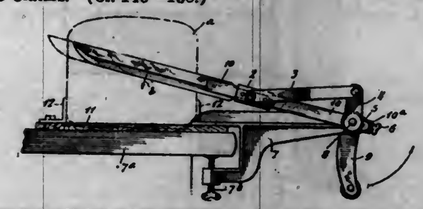
1. In the process of catalytically reducing anthraquinone compounds the step comprising acting with gaseous hydrogen under pressure upon anthraquinone compounds in the presence of a base metal hydrogenation catalyst.

1,751,671. WATER SOFTENER. GLENN E. WEBB, Kansas City, Mo. Filed Dec. 15, 1928. Serial No. 326,221. 1 Claim. (Cl. 210—24.)

A water softening apparatus consisting of a container open at its upper end and closed at its lower end, a horizontal partition extending across the upper portion of the container for dividing the latter into a shallow upper chamber and a large lower chamber, which latter is adapted to hold filtering material, a vertical partition extending upwardly from said horizontal partition and dividing the shallow chamber into an inlet chamber and an outlet chamber which latter communicates with the large chamber through an opening in the horizontal partition, a screen extending across said opening, a pipe leading downwardly from the inlet chamber to within a short distance of the bottom of the large chamber, and a spout leading from the outlet chamber.

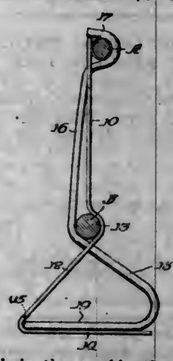


1,751,672. SLICING MACHINE. SVEN ADOLF WESTDAHL, Sellersville, Pa. Filed Dec. 14, 1927. Serial No. 239,828. 8 Claims. (Cl. 146—138.)



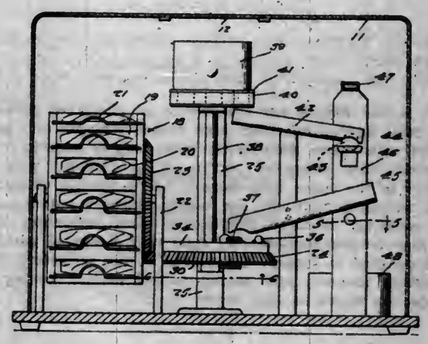
1. In a slicing machine, the combination of a support, a cutting knife, means movably connected with said support for reciprocating said knife, and means effective upon said reciprocating means at its point of connection with said support whereby a cutting pressure is developed in the cutting edge of said knife coincidentally with the reciprocation thereof.

1,751,673. BAR CHAIR. WILLIAM E. WHITE, Chicago, Ill., assignor to Kalman Steel Company, Chicago, Ill., a Corporation of Delaware. Filed May 17, 1928. Serial No. 278,455. 10 Claims. (Cl. 94—8.)



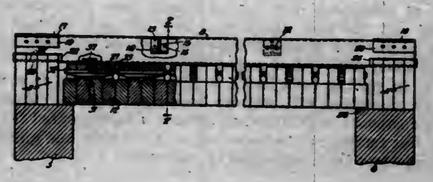
1. In a bar chair the combination of a primary support member having a horizontally disposed base for contact with the soil and an inclined element for contact with a bar, and a secondary support member having a bar engaging hook at its upper end and having its lower end shaped to interlock with the base and to support the free end thereof and being complementary to the said inclined element in the matter of support for said bar.

1,751,674. VENDING MACHINE. JOHN HUGO WOLTERS, Lewisville, Tex. Filed Dec. 12, 1927. Serial No. 239,475. 4 Claims. (Cl. 194—75.)



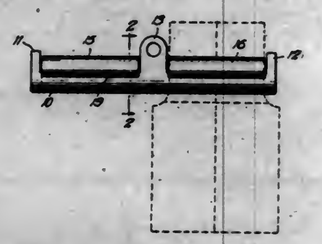
2. In a vending machine of the class described, the combination of a casing, a coin receiving chute extending into the casing and having a discharge end terminating within the casing, a closure for the discharge opening in the chute, a member rotatably supported in the casing, a ball retaining cup, means operatively associating said ball retaining cup with said member for discharging the balls one by one from the cup, a pan pivotally mounted on the chute and adapted to receive the discharge ball from the cup, means operatively associating said pan with the closure, a movable segment resting upon said member, said member and said segment being provided with pockets adapted to register with one another, manually controlled means adapted to engage with the coin chute for moving the closure to an open position, whereby said pan will be moved about its pivotal connection so that the ball may be delivered from the pan into the pocket of the segment and said member, when said pockets are in registry with each other.

1,751,675. REMOVABLE FURNACE ROOF. LYLE STOCKTON ABBOTT, Chicago, Ill. Filed Mar. 17, 1927. Serial No. 176,090. 11 Claims. (Cl. 110—99.)



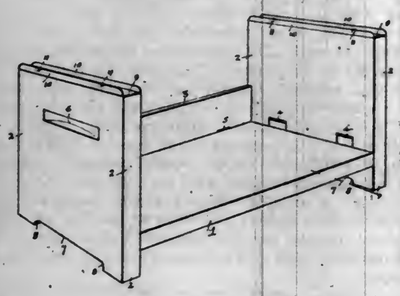
1. A removable furnace roof construction comprising supporting beams having slots running lengthwise on the under face thereof, inwardly extending flanges on opposite sides of said slots, a plurality of hanger bars having head portions slidably supported in said slots by said flanges, refractory tile members carried by each hanger bar, and means at the opposite ends of each of said beams for supporting them on the vertical walls of the furnace said beams having flat supporting surfaces on the top thereof over said supporting means whereby a plurality of beams may be stacked upon each other with the tile thereon.

1,751,676. COMPOSITE TILE-HANGER BAR. LYLE STOCKTON ABBOTT, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,912. 13 Claims. (Cl. 110—99.)



1. A tile hanger bar comprising an elongated portion of metal having relatively high tensile strength and provided with means whereby the same may be secured to a support, said elongated portion being provided with a recess in the upper face thereof, and a portion of material having a relatively low tensile strength but capable of resisting chemical combination with refractory tile at high temperatures resting upon said elongated portion and adapted to support the weight of the refractory tile members thereon, said second named portion having a projection fitting in said recess.

1,751,677. FOLDING BOOKRACK. NOAH S. AMSTUTZ, Valparaiso, Ind. Filed Mar. 26, 1925. Serial No. 18,527. 6 Claims. (Cl. 312—108.)



3. In folding book racks, a unitary structure comprising a support, a back hinged to the support above its under face and projecting above and below the hinges and ends hinged above their lower edges to the support, all so assembled that the back folds first onto the support and the ends thereafter onto the back so that all the parts when folded lie approximately on parallel planes and when unfolded at angles to each other.

6. In folding book racks, a base serving also as a top when assembled with unitary book rack sections, comprising a support, ends attached thereto, a back secured thereon, feet formed on the lower edges of the ends, and guiding channels on the upper edges of the ends.

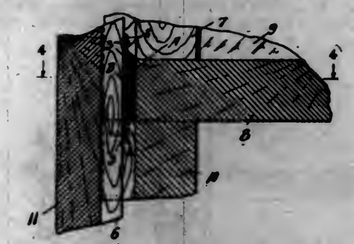
1,751,678. ROTARY CORE-DRILL ATTACHMENT. ARTHUR L. ARMENTROUT and ELWIN B. HALL, Los Angeles, Calif. Filed Feb. 25, 1926. Serial No. 90,591. 7 Claims. (Cl. 234—1.)

1. In an attachment for core drills including a ring mounted to rotate about a vertical axis, a wheel mounted in the ring to rotate about a horizontal axis, and means for continuously rotating the wheel in one direction and at a predetermined speed in which it maintains the vertical plane of rotation, a member below the wheel and capable of being marked, and liquid containing pockets in the wheel from which the liquid is discharged



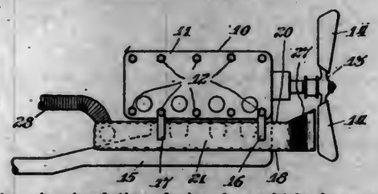
when the wheel attains the predetermined speed to mark the member and thus record the plane of rotation of the wheel.

1,751,679. SASH PLUG. ELMER D. BARRINGER, Cleveland, Ohio. Filed Nov. 5, 1928. Serial No. 317,351. 1 Claim. (Cl. 20—69.)



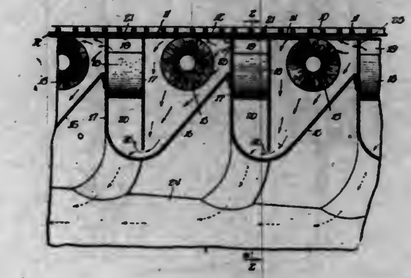
As a new article of manufacture, a sash plug comprising a packing member, and a plate member consisting of a strip of metal having its end portions bent on an incline from the body of the strip, and thence extended parallel to the body of the strip and refolded upon themselves to provide attaching means for the plug, the said refolded portions being extended to provide arms spaced from and underlying the body of the plate member, between which arms and said body of the plate member the packing member is received and clamped, said arms being formed with engaging flanges to directly engage and assist in firmly holding in place the packing member.

1,751,680. AIR-CIRCULATING DEVICE FOR VEHICLES, HEATERS, AND THE LIKE. SIDNEY J. V. BOVEY, Chicago, Ill., assignor, by mesne assignments, to Metalcraft Heater Corporation, Grand Rapids, Mich., a Corporation of Michigan. Filed Sept. 13, 1926. Serial No. 134,984. 9 Claims. (Cl. 98—2.)



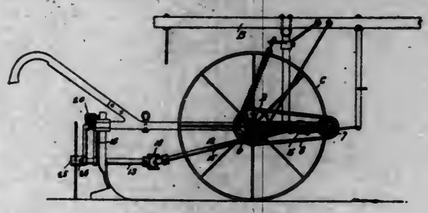
1. An air circulating device for vehicle heaters and the like comprising an open ended conduit having a relatively large mouth lying parallel and co-extensive with the blades of the fan as they assume a horizontal position.

1,751,681. CLEANING DRIER. STEPHEN CHASE, 4th, Chicago, and BENJAMIN S. PFEIFFER, Winnetka, Ill., assignors, by direct and mesne assignments, to Chase Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 2, 1925. Serial No. 12,517. 8 Claims. (Cl. 34—12.)



1. In an apparatus for drying fabrics, in combination, means for feeding a fabric progressively, a housing arranged to confine air in contact with the lower surface of the fabric, a movable brush operating inside the housing to brush the fabric, the housing having a bottom wall sloping away from the bush, and means for circulating air through said housing and down its sloping wall.

1,751,682. CULTIVATOR ATTACHMENT. JOHN T. CLARK, Lake City, Ark. Filed June 8, 1927. Serial No. 197,461. 1 Claim. (Cl. 97—15.)

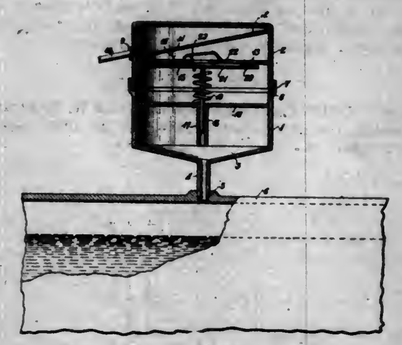


The combination with a cultivator including a wheeled frame and cultivator plows secured to the frame on each side of the longitudinal center thereof, of an attachment therefor including a supplemental frame, means securing the supplemental frame to the cultivator frame, a centrally disposed bearing carried by the supplemental frame and arranged at the longitudinal center of the cultivator frame, spaced bearings carried by the supplemental frame arranged transversely of the cultivator frame, a drive shaft arranged in said pair of bearings, means for operating the drive shaft from the cultivator, an operating shaft mounted in the central bearing, means operatively connecting the shafts together, the operating shaft having incorporated in the length thereof universal joints, a pulling wheel secured to the rear end of the operating shaft, supporting heads arranged above the cultivator plows having transversely extending slots therein, a U-shaped supporting arm rockably mounted upon the operating shaft and normally extending above the same, and a control lever pivotally mounted on the upper end of said U-shaped arm having a depending finger for engaging in a selected slot of either one of said heads.

1,751,683. PRIMARY DISAZO DYE DERIVED FROM DIAMINO CARBAZOLES AND ARYLIDES OF UNSULPHONATED HYDROXY CARBOXYLIC ACID. HEINRICH CLINGESTEIN, Cologne-on-the-Rhine, Germany, and HARRY W. GRIMMEL, New York, N. Y., assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 21, 1927, Serial No. 177,208, and in Germany Mar. 24, 1926. 12 Claims. (Cl. 260—76.)

1. Process which comprises coupling a tetrazotized unsulphonated diamino-carbazole compound with an arylide of an unsulphonated hydroxy carboxylic acid.

1,751,684. COMBINED VENT AND SAFETY VALVE. VICTOR P. DIEDERICH, Hot Springs, Ark. Filed June 18, 1928. Serial No. 286,326. 4 Claims. (Cl. 277—42.)



1. A device of the character described comprising a sectional body having a chamber therein, said body having an inlet and an outlet way formed in the same in relative spaced relation, a ported wall in said chamber between said ways, a spring-pressed disk valve normally closing the port of said wall, said valve having a port in the same, a spring-pressed second valve carried by said first valve and normally closing the port therein, said second valve being movable in a direction opposite to the path of movement of the first valve, and a baffle disposed across the chamber within the body portion between said ported wall and the outlet way of the body.

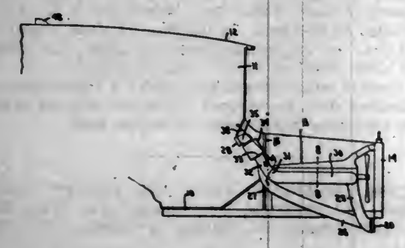
1,751,685. ISOLATION OF BENZYL CELLULOSE. EDUARD DÖRR, Elberfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Original application filed Sept. 20, 1926, Serial No. 136,723, and in Germany Aug. 17, 1925. Divided and this application filed Aug. 13, 1927. Serial No. 212,833. 2 Claims. (Cl. 260—152.)

1. The improvement in the isolation of benzyl cellulose from crude reaction products containing the same, which comprises admixing said crude reaction products with common salt, extracting the resulting mixture with benzine, and removing the residual salt by means of washing with water.

1,751,686. VENTILATING APPARATUS FOR AUTOMOBILES. FREDERICK C. DUREK, Defiance, Ohio. Filed Sept. 25, 1925. Serial No. 58,516. 1 Claim. (Cl. 98—2.)

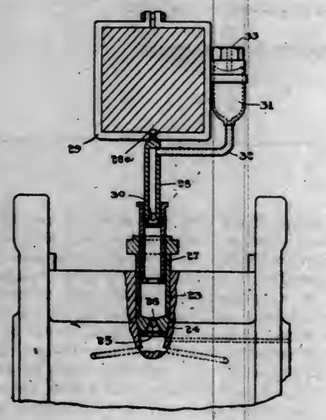
The combination with an inclosed motor vehicle, of a casing mounted at the front end of the vehicle and having

an opening in its front side, a heating chamber surrounding the vehicle engine exhaust, a pair of conduits connected to such casing, one of said conduits leading to said



chamber and the other directly to the vehicle interior, means for conducting heated air from said chamber to the vehicle interior, and means for selectively controlling the flow of either heated or cool air to such interior.

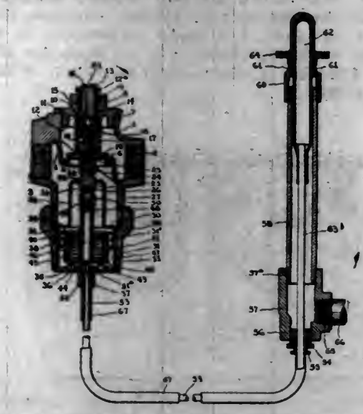
1,751,687. LUBRICATING DEVICE. JOHN W. T. ELLIOT, Allandale, Ontario, Canada. Filed Dec. 22, 1927. Serial No. 241,964. 7 Claims. (Cl. 308—79.)



1. The combination with a locomotive frame and a journal box mounted to slide vertically in suitable guides carried by the frame of a telescopic lubricator comprising a plurality of tubes slidably mounted one within the other, one of said tubes being provided with an apertured outlet and another of the tubes being provided with a valve which, when closed, forms a piston, the first mentioned tube being fixed to said bearing and the second mentioned tube being fixed to the frame, the arrangement being such that the second mentioned tube which functions as a piston is moved downwardly on the power stroke by the weight of the frame.

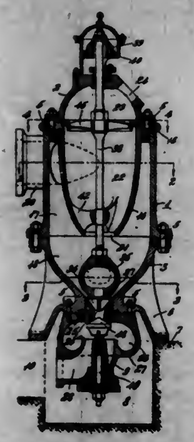
1,751,688. BURNER-CONTROL MEANS. LEWIS W. EGGLESTON, Clarence Township, Erie County, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 21, 1927. Serial No. 170,051. 14 Claims. (Cl. 158—117.1.)

10. In a device of the character described, a valve casing having an inlet and an outlet, a partition in said casing having a passage therethrough, a valve to close said passage, a hollow open extension on said casing in axial alignment with said passage, a sleeve carried by said extension, a cup-shaped container opening into and sealing said casing and carried by said sleeve, a resilient longitudinally expansible-contractible member within said container and having a head adjacent the base of said con-



tainer, means to seal the open end of said resilient member to the side wall of said container, plunger means carried by said head and operatively engaging said valve, a pilot burner tube having a burner aperture, a heat responsive medium within said tube, and means to transmit the expansive force of said medium to said head.

1,751,689. SAND SEPARATOR. KARL A. ENZ, Cleveland, Ohio, and DANIEL J. MCCORMACK, York, Pa. Filed Nov. 24, 1924. Serial No. 751,014. 7 Claims. (Cl. 210—51.)

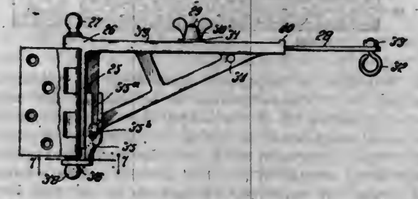


1. A sand separator, comprising a casing having an inlet opening for the introduction of a physical mixture of sand and water under pressure, means within said casing for co-operating with the flow of said mixture for effecting separation of said substances, and means controlled by the flow of one separated substance for controlling the discharge of the other separated substance.

1,751,690. WATERPROOF FIRE-RESISTANAT PLASTIC COMPOSITION. CHARLES R. FABEN, St. Louis, Mo., assignor to The American Tar Products Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 7, 1922. Serial No. 580,387. 8 Claims. (Cl. 106—31.)

1. The herein described process of producing a waterproof, fire resistant plastic composition, which consists in mixing 500 parts by weight of dry clay with 333 parts by weight of powdered pitch and 100 parts by weight of asbestos fibers, and adding to the mixture 600 parts by weight of water which is worked into the mixture to form a paste containing an emulsion of clay and water, next adding to the mixture 150 parts by weight of coal tar and allowing the water to evaporate from the mixture; substantially as specified.

1,751,691. BRACKET. OTTO S. FLATH, Chicago, Ill. Filed June 27, 1927. Serial No. 201,594. 2 Claims. (Cl. 248—1.)



1. A bracket of the character described comprising, in combination with a door-hinge provided with a removable hinge-pin, a triangular member, the base whereof is adapted to bear against the butt-end of the hinge, while the upper horizontally disposed side of said member is extended beyond said base to lap the upper end of the butt-end of the hinge, said extension being provided with an oblong aperture to receive the head of the hinge-pin, with the base of the extension having a lip disposed forwardly into said aperture to engage beneath the head of the hinge-pin.

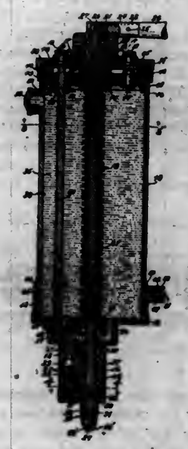
1,751,692. ICE SKATE. GEORG FRÜHBEIS, Berlin-Friedenau, Germany. Filed Apr. 11, 1928, Serial No. 269,228, and in Germany Dec. 18, 1925. 6 Claims. (Cl. 208—167.)



1. An ice skate, comprising, in combination, a front blade part having a sole plate, a flat spring fastened to said sole plate and extending underneath the sole of a boot, a rear blade part with bars fastened thereto adapted to guide said rear blade part on said front blade part, a firm connection between the front end of said guiding bars and the rear end of said flat spring adapted to allow free movement of the toe joint of a foot in the plane of the said front and rear blade, substantially as set forth.

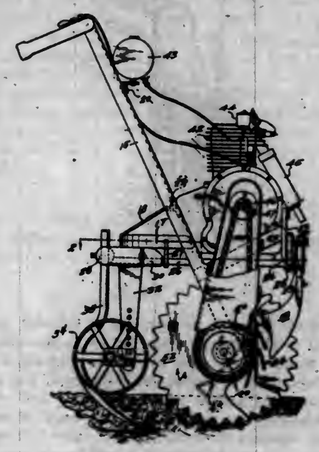
1,751,693. LUBRICATOR. WILLIAM M. GENTLE, Los Angeles, Calif. Filed Nov. 10, 1928. Serial No. 318,501. 10 Claims. (Cl. 221—47.3.)

1. A lubricator for discharging lubricant into oil cups and bearings including a container, a nozzle connected to said container, a valve head for opening and closing a passage to said nozzle, a plunger on said head that is normally extended through a passage through said nozzle, yielding means for normally holding said valve head in a closed position so that the end of the plunger is flush with the



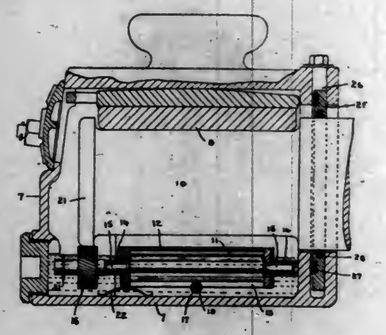
end of said nozzle, and manually operable means for moving said head to open position and to remove said plunger from said nozzle.

1,751,694. SOIL-TILLING DEVICE. HAROLD H. GLASIER, Los Angeles, Calif. Filed Oct. 3, 1927. Serial No. 223,642. 12 Claims. (Cl. 97—48.)



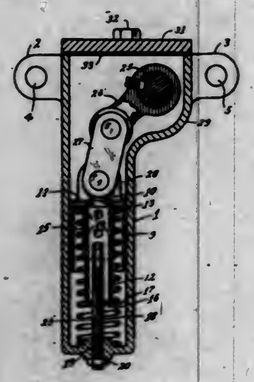
1. A soil tilling implement comprising a frame, a traction and ground breaking wheel journalled at the forward end thereof adapted to cut into and penetrate the ground to effect tillage, motor means for rotating said wheel and a ground working tool at the rear of said wheel arranged to engage the soil and create a drag upon said implement.

1,751,695. LUBRICATION OF AXLES AND THE LIKE. PERCIVAL GEORGE GRAHAM, Enfield, near Sydney, New South Wales, Australia. Filed May 19, 1925, Serial No. 31,442, and in Australia Jan. 25, 1925. 1 Claim. (Cl. 308—85.)



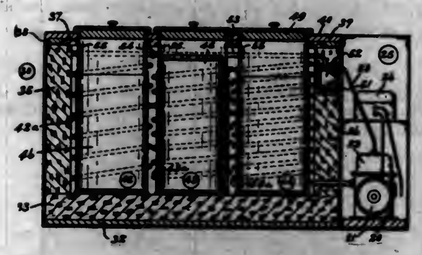
In axle boxes and the like for lubricating journals, a cylindrical casing, a rotor journalled in said casing, a friction wheel carried by the rotor, a removable pin securing the casing in the axle box and pivotally mounting the casing medially of the box, and a pin at the terminal of the rotor adapted for use in facilitating withdrawal of the rotor.

1,751,696. HYDRLAULIC SHOCK DIFFUSER. LEON S. HETH, East Grand Rapids, Mich. Filed May 4, 1928. Serial No. 275,011. 3 Claims. (Cl. 267—8.)



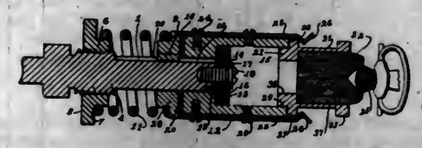
2. A shock absorber comprising a cylinder adapted to be secured to the chassis frame of an automobile, a piston slidably mounted in said cylinder, connections on said piston adapted to be secured to the axle of the automobile for moving said piston when said axle and chassis are moved relatively to each other, the head of said piston having an opening therethrough, a tube having perforations in the side walls thereof, a resilient sleeve surrounding said tube for yieldingly closing said perforations, means for sealing one end of said tube around said piston head opening, the other end of said tube having a relatively small opening therethrough, a plunger rod mounted on said cylinder to extend through said tube opening and have axial movement therethrough when said piston is moved in said casing, said plunger rod having a variable cross sectional area for providing a variable sized restricted passageway for the purpose set forth.

1,751,697. REFRIGERATING APPARATUS. HARRY B. HULL, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Nov. 6, 1924. Serial No. 748,258. 2 Claims. (Cl. 257—208.)



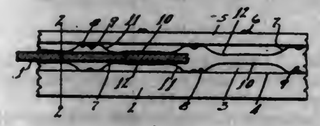
1. Refrigerating apparatus comprising in combination a plurality of compartments to be cooled, and means for refrigerating all of the compartments to substantially the same temperature including an individual refrigerating element associated with each compartment, said elements being connected in series to form a single conduit, and means for supplying refrigerant to one end of the conduit, the refrigerating surface of the elements being increased along the series in the direction of flow of refrigerant from said supply means.

1,751,698. WATCH-WINDING MECHANISM. HOWARD W. JELLIFFE, Cleveland, Ohio. Filed May 22, 1926. Serial No. 111,055. 8 Claims. (Cl. 81—7.5.)



1. In a watch winding mechanism, the combination of an axially immovable drive shaft, friction clutch elements mounted on said shaft and movable axially thereon, the driving element being keyed to the shaft and the driven element being loose thereon but held by said shaft against movement away from the keyed element beyond certain limits, a shouldered nut threaded on said shaft adjacent the driving element of the clutch, a pressure spring element mounted between the shoulder and the keyed element for normally holding the clutch in engagement, the said driven element having an annular portion projecting beyond the limits of the shaft, a winding element for detachably engaging said projecting portion, and having means for receiving yieldably thereagainst the stem of a watch to be wound, and power means for rotating said drive shaft.

1,751,699. ANTIRATTLER FOR WINDOWS. HANS GOTTFRED JORGENSEN, Erie, Pa. Filed Dec. 19, 1923. Serial No. 681,495. 2 Claims. (Cl. 292—76.)



1. In an anti-rattler for windows, the combination of a frame having a groove therein with opposing walls; a glass member mounted in the groove; and a spring at each side of the glass member exerting yielding pressure against the member, each of said springs comprising a spring loop operating against the member and leaving its entire length superimposed by the member, said loop being rigidly secured at its ends to a wall of the groove and yielding intermediate said ends.

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1,751,700. TONGUE EXTENSION. EMIL E. KOCH, Stanton, Nebr. Filed Feb. 5, 1929. Serial No. 337,646. 1 Claim. (Cl. 278—121.)



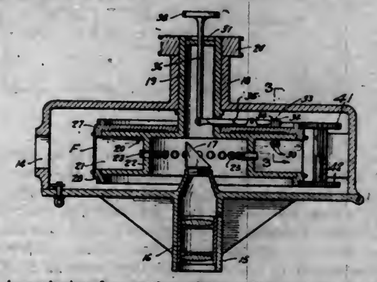
In combination with a tongue, a U-shaped extension member including a pair of co-extensive spaced parallel leg plates connected by a bight plate at their forward ends, the other ends of the plate extending a distance over and under the forward end of the tongue, bolts securing the extension in place, a neck yoke pin formed on a casting, said casting including a pair of transverse elongated loop members for receiving the co-extensive parallel plates so that the casting may slide thereon, said coextensive parallel plates having registering openings, and a stop pin for insertion therein to limit the movement of the casting rearwardly.

1,751,701. HEALTH SUSPENDER SHIRT. HERBERT W. LAIRD, Tampa, Fla. Filed Apr. 27, 1928. Serial No. 273,411. 1 Claim. (Cl. 2—117.)



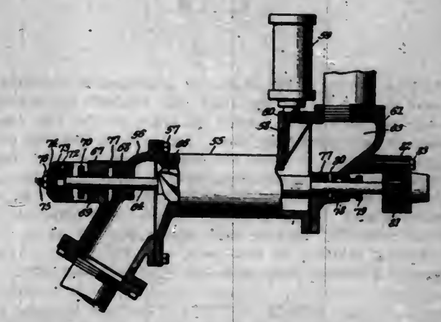
A shirt having on each side a strap secured near one end to the arm hole seam at the side seam inside the shirt, the strap being provided with two button holes at different distances from the arm hole and the shirt being provided on each side with two holes through which the free end of the strap may be drawn, at the side seam at different distances from the arm hole.

1,751,702. CONTINUOUS PROJECTOR. RALPH M. LIKE, Los Angeles, Calif., assignor to Frank E. Carter, Brawley, Calif. Filed Nov. 9, 1926. Serial No. 147,225. 6 Claims. (Cl. 88—16.8.)



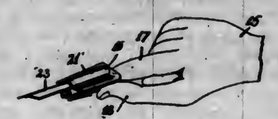
1. A projector for motion picture film comprising a light means having an aperture for projecting a light beam, an arcuate film carrier mounted to travel in a continuous cycle past the beam from said light means, said carrier having radial cells for the passage of a beam of light therethrough and means to peripherally hold a film with frames thereof across said cells and to travel with the film thereover, one frame of a film being disposed across a cell whereby to project an image therefrom inwardly through a cell, image receiving means at the center of the arc of said carrier to receive images projected through said film, said aperture being of such dimensions as to at all times project light through a plurality of adjacent cells whereby to maintain the projected image in stationary position while the cell is traveling and to replace in complementary registration the image from the succeeding frame where it is moving into the field of said beam of light and while the preceding image is being withdrawn.

1,751,703. PUMP. DANIEL D. LONG, Boise, Idaho, by decree of distribution to Martha Long, Boise, Idaho. Filed Nov. 3, 1927. Serial No. 230,777. 1 Claim. (Cl. 103—128.)



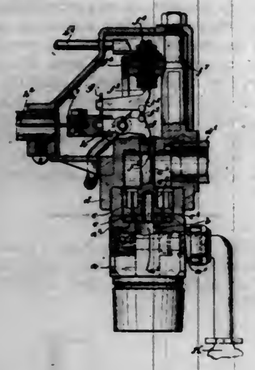
A pump of the class described comprising a casing having a main body, an inlet head connected to one end of the body, the opposite end of said body terminating in an upwardly projecting portion; an outlet head connected to said portion, means associated with said projecting portion for preventing pounding or hammering of the liquid as it passes through the casing, a pair of interengaging screw impellers axially mounted in said casing, the shafts of said impellers extending through said inlet and outlet heads, means for lubricating said shafts by the fluid passing through the casing, and means for maintaining said impellers in proper operative position relative to each other.

1,751,704. FINGER PENHOLDER. FRANCIS H. MACDONALD, Edgemere, N. Y. Filed May 24, 1928. Serial No. 280,137. 1 Claim. (Cl. 120—100.)



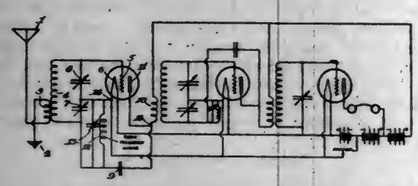
In a finger pen holder, a finger member arranged for engaging one's finger, and having a flat top, a base pivotally mounted on the said flat top, means for holding a pen nib, secured on the base, the said flat top being formed with a plurality of apertures on the arc of a circle scribed from the base pivotal point, and pins engaged thru the base and into certain of the apertures for holding the base at fixed angular positions for holding the pen nib at angular positions relative to the length of the finger member.

1,751,705. RELEASE DEVICE FOR FLUIDS UNDER PRESSURE. DANIEL MAPES, Mamaroneck, N. Y., assignor to Walter Kidde & Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 24, 1927. Serial No. 178,118. 4 Claims. (Cl. 169—26.)



1. In a device of the character described, a container, a seal secured to the container and adapted to rupture under influence of a normal pressure within the container, a seal supporting means mounted to prevent the rupture of the seal under the normal pressure, said supporting means being apertured so as to leave a portion of said seal unsupported whereby it will be ruptured by a predetermined excess pressure within said container, means releasably holding said seal-supporting means in supporting relation to said seal, and an outlet in the supporting means communicating with the aperture.

1,751,706. RADIO RECEIVING APPARATUS. BYRON B. MINNIUM, Chicago, Ill., assignor, by mesne assignments, to Story & Clark Radio Corp., Chicago, Ill., a Corporation of Delaware. Filed May 6, 1926. Serial No. 107,015. 8 Claims. (Cl. 250—20.)



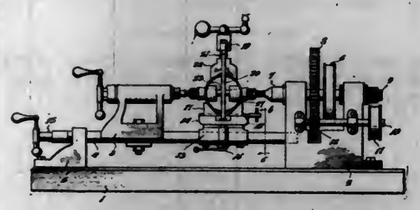
1. A radio receiving apparatus comprising a vacuum tube having a filament and a grid and a plate, elements forming in effect a Wheatstone bridge arrangement with substantially pure capacity only forming each arm of said bridge, the secondary of a repeating coil being connected between opposite junctions of said bridge, one such capacity being formed by the grid to plate capacity of said tube, to thereby suppress oscillation of the tube, and instrumentalities forming an unbroken metallic path through the secondary with inductance therein between the grid and the filament of said vacuum tube, said inductance permitting the passage of direct current charges but preventing the passage of radio signals.

1,751,707. GARTER BUTTON. CHARLES A. NASH, Portland, Oreg. Filed Apr. 28, 1928. Serial No. 273,719. 5 Claims. (Cl. 24—243.

1. A garter clasp comprising a shell body having a bore having a passage formed therethrough said passage being of materially less diameter at one end of the shell than at the other, the different diameters of the passage setting up a shoulder within the shell having a shallow recess formed therein, a plug body having a portion of relatively large diameter and a portion of smaller diameter and designed to extend into said passage, the larger portion having a shoulder for coaction with the wall of the recess for clamping the edge of a stocking or the like between the shell and plug, a button formed upon the inner end of said plug, and means carried by the plug and shell for the attachment thereto of a holding strap, said plug at its forward end being of a diameter to bind slightly in the smaller diameter of said bore of the shell.

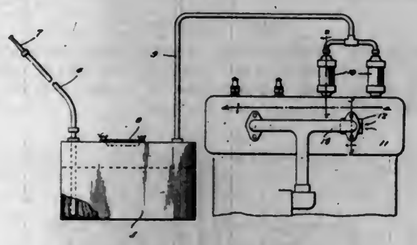


1,751,708. PISTON-BOSS REAMER. WALTER A. NELLER, Alexandria, Minn. Filed Aug. 12, 1927. Serial No. 212,592. 3 Claims. (Cl. 77—3.)



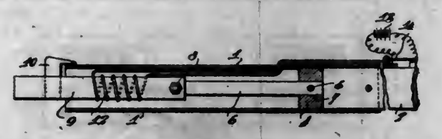
1. A machine of the character specified, comprising head and tail stocks, a work holder and a centering device for the work adapted to be supported between the head and tail stock centers for positioning the work during the adjustment of the holder to grip the same.

1,751,709. MOTOR OPERATING ATTACHMENT FOR LIQUID SPRAYERS. FRANTZ F. NIELSEN, REA H. NIELSEN, and JAMES R. NIELSEN, Afton, Wyo. Filed July 7, 1927. Serial No. 204,047. 5 Claims. (Cl. 123—198.)



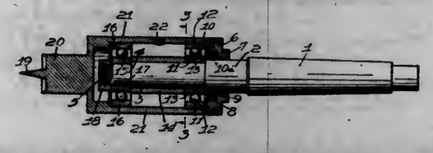
1. An air compressing attachment for gas engines comprising a tank, a check valve arranged in the spark plug opening of the engine, a feed pipe connecting said tank with the check valve and means for isolating the cylinder of the engine having the check valve attached thereto from the fuel feed line of the engine, said means comprising a plate positioned in the fuel feed line forming a closure therefor and adapted to provide atmospheric communication for the isolated cylinder.

1,751,710. MAGNETIC TESTING DEVICE. FRED H. OHLAND, Gibbon, Minn. Filed June 17, 1926. Serial No. 116,667. 2 Claims. (Cl. 175—183.)



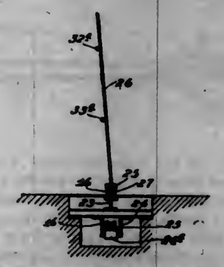
1. A device of the class described comprising a tubular supporting member of non-magnetic material, a cross wall secured in one end of the tubular member, a spring having one end secured in the cross wall and having its free end projected axially part way toward the other end of the tubular member, and a magnet secured to the free end of the spring to be suspended freely in and project from the said other tube end, said cross wall being spaced inwardly of the tubular member end in which it is mounted to form an end socket, a handle of heat non-conductive material secured in and projecting from the end socket, graduations on the other tubular member end, and an indicator pointer carried by the magnet and associated with the graduations for the purposes specified.

1,751,711. REVOLVING LATHE CENTER. HAROLD RAY ONG, Champaign, Ill. Filed May 27, 1927. Serial No. 194,774. 1 Claim. (Cl. 82—33.)



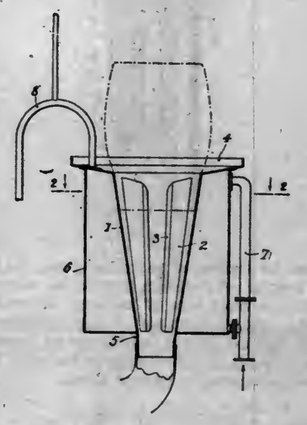
A lathe center construction comprising a stationary spindle having a pair of reduced portions and a threaded end, ball bearings mounted upon each of the reduced portions, a sleeve disposed upon the spindle between said bearings and in engagement therewith, a nut disposed upon the threaded portion and bearing against one of said ball bearings for securing the ball bearings to the spindle, a lathe center mounted for rotation about the ball bearings and having a threaded opening disposed concentrically with respect to the stationary spindle, a closure plug having a recess and being threaded for engaging the threaded portion of the lathe center, oil retaining means disposed within said recess and arranged to bear against a portion of the spindle, and a rigid washer disposed between one of said ball bearings and the closure plug and being arranged to bear against the oil retaining means for retaining the latter.

1,751,712. GLASS-HANDLING APPARATUS. WILLIAM OWEN, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed June 25, 1928. Serial No. 288,123. 6 Claims. (Cl. 198—162.)



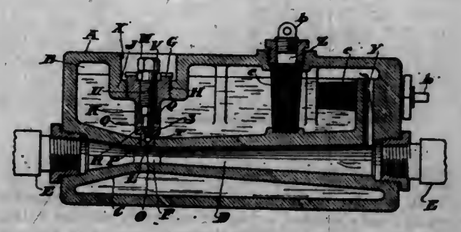
1. In apparatus for handling sheets of glass, an endless carrier having a horizontal flight provided with means for supporting the lower edges of a series of upright glass sheets, an endless supporting cable having a horizontal flight extending longitudinally of the line of travel of the sheets above the lower edge thereof and engaging the faces of the sheets, and means for driving the carrier and the cable.

1,751,713. APPARATUS FOR MELTING FATTY SUBSTANCES. GEORGES PELLERIN, Malaunay, France. Filed Apr. 5, 1927, Serial No. 181,251, and in France Apr. 22, 1926. 4 Claims. (Cl. 257—210.)



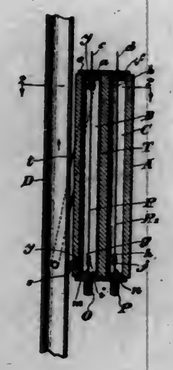
2. In an apparatus for melting fatty substances, the combination of a vessel which is placed vertically and is open at the top and bottom, hollow radial, substantially vertical ribs provided in this vessel, the said ribs each being provided with a sharp edge, and a jacket which surrounds the said vessel and forms with the latter an annular chamber for the circulation of a hot fluid, the said chamber being in communication with the interior of the said hollow ribs.

1,751,714. AIR-LINE OILER. ARTHUR E. PETERS, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 16, 1927. Serial No. 199,312. 4 Claims. (Cl. 184—55.)



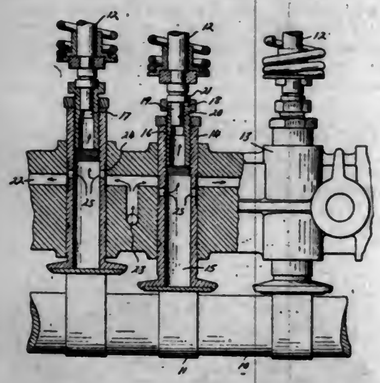
1. An air line oiler comprising a casing having an annular wall therethrough dividing the casing into a reservoir for oil and a passageway for pressure fluid, said passageway having a restricted throat portion and being tapered outwardly toward its ends, said casing having an oil passage connecting the restricted throat portion with the reservoir and an air passage affording communication between the reservoir and an enlarged portion of the passageway, and means in the oil passage for controlling the volume of oil delivered from the reservoir into the passageway.

1,751,715. THERMAL-CONDUCTIVITY GAS-ANALYSIS APPARATUS. JACOB C. PETERS, Jr., Philadelphia, Pa. Filed Feb. 27, 1926, Serial No. 91,031. Renewed Feb. 4, 1930. 1 Claim. (Cl. 73—51.)



Apparatus for testing or analyzing gases comprising an elongated tubular chamber, a resistance conductor disposed therein, a liner tube of material inactive with respect to the gaseous contents of said chamber forming the interior surface thereof, and material interposed between said chamber and liner tube to maintain high, definite, thermal conductivity between them.

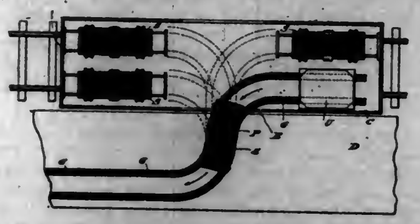
1,751,716. CUSHIONED VALVE TAPPET. WILLIAM F. PORTH, Detroit, Mich. Filed Apr. 26, 1926. Serial No. 104,863. 8 Claims. (Cl. 123—90.)



3. In a valve operating mechanism, a tappet including a tubular body member, a tubular adjusting member within said body member, a plunger slidably mounted in the said tubular adjusting member and abuttingly engageable therewith, and fluid pressure means yieldably resisting abutting engagement of the said plunger with the said adjusting member.

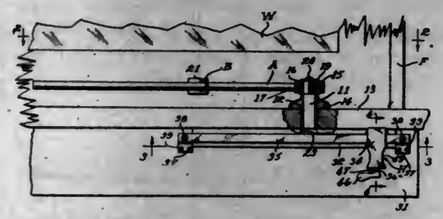
1,751,717. CAR LOADING AND UNLOADING METHOD. ROBERT T. ROMINE, Mount Clemens, Mich. Filed Aug. 10, 1926. Serial No. 128,397. 7 Claims. (Cl. 214—152.)

1. The hereindescribed method of unloading heavy bundles or packs, such as metal, from a freight car, consisting in bodily lifting the bundle above the car floor, laying conveyor rolls on the car floor to extend from the car doorway to a point beneath the bundle while raised, lowering the



bundle onto a platform resting on said rolls, propelling the platform to the car doorway on said rolls, and lifting the bundle as a unit from said platform.

1,751,718. REGULATOR FOR WINDOWS AND DOORS. ERIC SODERGREN, Sierra Madre, Calif. Filed July 26, 1927. Serial No. 208,623. 6 Claims. (Cl. 268—118.)



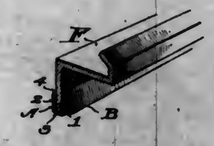
1. A regulating device of the character described comprising a shaft adapted to be vertically mounted for rotation about a fixed axis in the stool of a casement window frame, an arm fixed to the shaft for rotation thereby, a bracket adapted to be secured to a casement window in the frame and with which the arm is slidably associated so that rotation of the shaft in one direction or the other will effect movement of the window to an open or closed position, and means operatively associated with the shaft for actuating the latter, said means comprising a guide bar adapted to be supported in horizontal fixed position upon the stool of the window frame, a holding element comprising a body slidably mounted on the bar, a shoe in the body normally urged into engagement with the bar to set up frictional resistance against movement of the body along the bar, a sleeve constituting an arm, secured to the shaft, and a rod pivotally secured to the body and extensibly associated with the sleeve.

1,751,719. NOZZLE. WILLIAM C. UHRI, Jr., Clayton, Mo., assignor to Central Engineering and Sales Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 18, 1925. Serial No. 24,115. 6 Claims. (Cl. 299—140.)



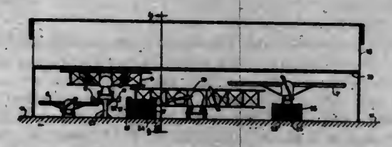
1. In a device of the class described, a tube of substantial length expanding in internal diameter throughout its length from its inner to its outer end, means for directing a comparatively small diameter cylindrical stream of motive fluid into said tube and spaced from the inner walls of said tube near its entrance, and means for admitting liquid to said tube and surrounding said stream of motive fluid.

1,751,720. WEATHER STRIP FOR CASEMENT SASHES. HERBERT E. WHITE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed Apr. 13, 1927. Serial No. 183,521. 1 Claim. (Cl. 20—69.)



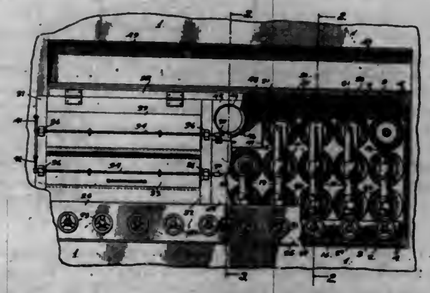
A metallic weather-strip construction for steel frame casements and the like comprising a clip portion of channel formation and having both walls thereof substantially the same height, and one of the walls thereof being deflected inwardly at an angle along its edge to provide a gripping lip for biting engagement with an outside face of the frame, and a resilient weather-flange connected with the inside wall of the channel.

1,751,721. HANGAR EQUIPMENT. CARL BELLMANN, New York, N. Y. Filed Sept. 1, 1927. Serial No. 216,794. 15 Claims. (Cl. 189—1.5.)



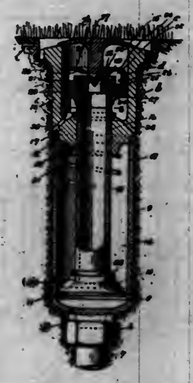
1. In a hangar, an aircraft supporting floor, partitioned into a series of sections of a width not less than the span from tip to tip of the wings of an aircraft to be housed therein, and of a length equal to the overall length of said aircraft, the partitions separating said floor sections from each other comprising an elevated runway, of a width not less than the width of the running gear of an aircraft to be travelably supported thereon, of a length substantially that of the supported aircraft, and of a height, from the surface of said floor sections not less than the distance between the highest and lowest points of the wings of the aircraft being supported on the adjacent floor sections and elevated runways.

1,751,722. BURNER. FREDERICK S. BITGOOD, San Francisco, Calif. Filed May 25, 1927. Serial No. 194,085. 12 Claims. (Cl. 158—1.)



1. A burner for furnaces comprising a burner setting; a plurality of burner holders independently mounted and separately removable from the setting, said holders having matching recessed portions to provide air passages therebetween; burner nozzles mounted upon each holder; a fuel manifold; and valve controlled means connecting the manifold and each holder for supplying fuel through the holders to the burner nozzles whereby any holder may be removed independently of the remaining holders and burner nozzles.

1,751,723. DISAPPEARING LAWN SPRINKLER. CHARLES A. BORGESON, San Francisco, Calif. Filed Dec. 28, 1925. Serial No. 78,026. 2 Claims. (Cl. 299—61.)



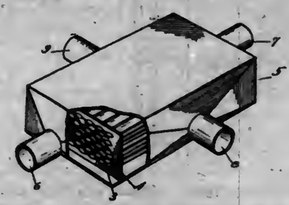
1. In a lawn sprnkler, a casing, a nozzle slidably mounted in said casing, water actuated means for raising said nozzle into operative position, and spring means adapted to be tensioned after said nozzle has moved a predetermined distance, said spring means acting in the initial movement of said nozzle into inoperative position.

2. A lawn sprinkler comprising a casing having a recess in the top thereof and a dome-shaped rim, a nozzle slidably mounted in said casing and being receivable in said recess when in inoperative position, a dome-shaped cover secured to said nozzle for closing said recess when seated on the rim, said cover being dome-shaped and having its periphery rounded so as to merge into the rim when seated and prevent the cover from being manually grasped and moved, and water actuated means for raising said nozzle.

1,751,724. MANUFACTURE OF A SOLID RESIN FROM THE SEMIFLUID RESINOUS MATTER EXTRACTED FROM CRUDE GUTTA-PERCHA AND/OR BALATA. ALFRED BREWERTON CRAVEN, Selby, England. Filed July 23, 1927, Serial No. 208,068, and in Great Britain Jan. 1, 1927. 2 Claims. (Cl. 134—26.)

1. The process of manufacturing a solid resin from a sticky semi-fluid resin extracted from gutta percha and from balata, consisting of the steps of mixing one per cent of resinate of manganese with said semi-fluid resin, heating and agitating said mixture and passing a current of air therethrough while agitated.

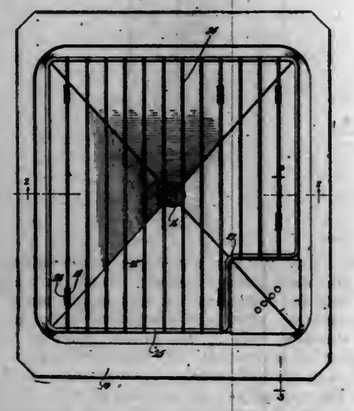
1,751,725. HEAT EXCHANGER. WALTER M. CROSS, Kansas City, Mo. Filed Jan. 7, 1926. Serial No. 79,772. 3 Claims. (Cl. 257—241.)



1. A heat exchanger comprising a plurality of sets of corrugated sheets, each set consisting of two sheets ar-

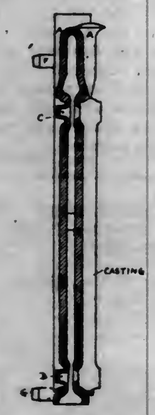
ranged to form tubular openings therebetween and having undulated external surfaces, and undulated separating elements extending uninterruptedly across the exterior of each sheet in close proximity to the ends thereof, the separating elements of adjacent sets of sheets contacting throughout substantially their entire lengths to form continuous undulated passageways between the sets of sheets, said separating elements forming side walls for the passageways throughout the length of the latter.

1,751,726. BROILER. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Sept. 26, 1927. Serial No. 222,033. 12 Claims. (Cl. 53—5.)



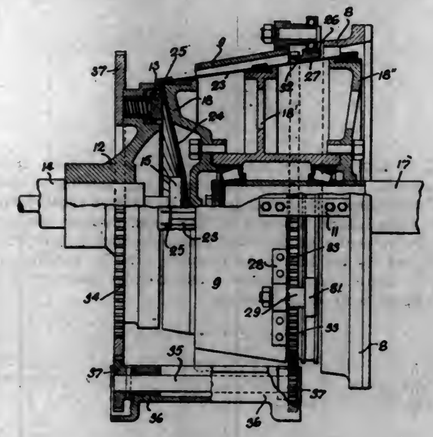
1. In a broiler, a tray, a drip pan resting upon the tray and having openings therethrough, and a grid above the pan and having projections through the openings of the pan for supporting it from the tray.

1,751,727. CAST-IRON MOLD. JOSEPH L. DOSTAL, Detroit, Mich., assignor to Earl Holley, Detroit, Mich. Filed Sept. 12, 1927, Serial No. 218,884. Renewed Aug. 1, 1929. 2 Claims. (Cl. 22—183.)



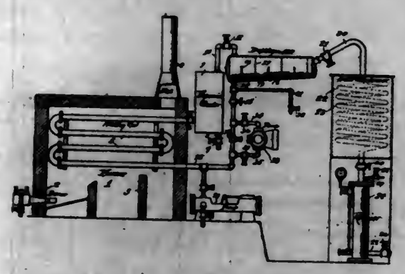
1. In a double faced hollow radiator mold with the parting line substantially in the vertical plane, a perforated core support whereby the gases generated within the cores are vented to the interior of the hollow mold.

1,751,728. BASKET MACHINE. COLON J. DUDLEY, Hamburg, N. Y., assignor to The Straight-Side Basket Corporation, Benton Harbor, Mich., a Corporation of Michigan. Filed Feb. 23, 1927. Serial No. 170,175. 20 Claims. (Cl. 147—47.)



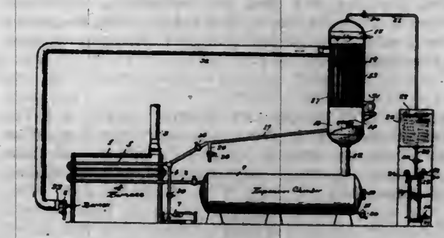
1. In a machine for making a basket or similar receptacle, the combination of a reciprocating and rotary basket form for engaging the inside of the receptacle, a stationary mold into which the form is movable, the form having a gradual straight taper from its top to its bottom, whereby the basket is tapered accordingly, rotary means for pressing the bottom of the basket against the end of the form, a ring gear rotatably mounted in the mold, having its inner periphery adapted to grip the outer surface of the basket, means whereby said ring gear is rotated by the operation of said rotary means, means for feeding outside top and bottom hoops to the basket, and stapling mechanism for driving staples through the hoops and the side walls of the basket.

1,751,729. APPARATUS FOR TREATING HYDROCARBONS. GUSTAV EGLOFF and HARRY P. BENNER, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Sept. 1, 1920, Serial No. 407,408. Renewed Nov. 21, 1927. 1 Claim. (Cl. 196—99.)



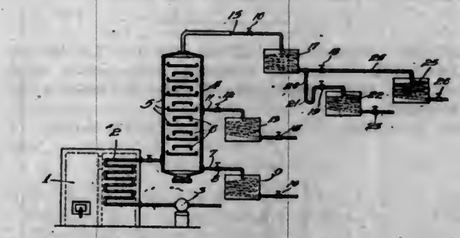
An apparatus of the character described, comprising a furnace, a coil therein, means for feeding oil to the coil, an expansion chamber disposed exteriorly of the furnace and in communication with the coil, a horizontally disposed dephlegmator communicating with said expansion chamber, a vapor discharge from the dephlegmator, and means for returning reflux condensate from said dephlegmator to the heating coil, said dephlegmator having an inclined wall and provided with a plurality of baffles, the reflux discharge being near one end of the dephlegmator.

1,751,730. APPARATUS FOR CRACKING OIL. GUSTAV EGLOFF and HARRY P. BENNER, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 11, 1921, Serial No. 444,234. Renewed Feb. 21, 1929. 2 Claims. (Cl. 196—139.)



2. In an apparatus for cracking oil, the combination with a heating coil mounted in a furnace, a reaction zone communicating therewith where substantial vaporization takes place, a dephlegmator communicating with the vapor space of said reaction zone, a closed air chamber within the interior of said dephlegmator, means communicating with said closed chamber in the dephlegmator for forcing cool air thereto, and means for removing said air after passage through the closed air chamber which has been heated by the dephlegmator, and means for delivering said heated air to the furnace.

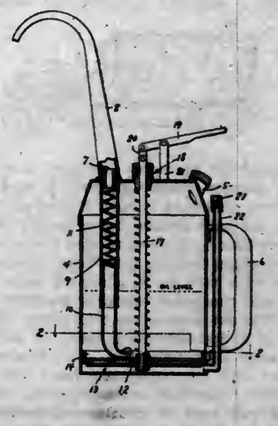
1,751,731. PROCESS OF TREATING HYDROCARBON OIL. GUSTAV EGLOFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Oct. 22, 1923, Serial No. 669,929. Renewed Jan. 12, 1929. 4 Claims. (Cl. 196—94.)



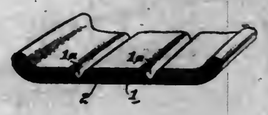
3. A process of treating petroleum oils of an emulsified character, consisting in heating the oil to a cracking temperature under superatmospheric pressure, passing the vapors evolved from the oil to a zone of dephlegmation, passing the uncondensed oily and watery vapors therefrom through a primary condenser maintained under superatmospheric pressure, and at a temperature below the boiling point of water at that pressure, passing the condensate through a cooling zone, withdrawing the uncondensable gases and uncondensed vapors from the primary condenser and subjecting them to further cooling.

1,751,732. LUBRICANT-DISPENSING CAN. HAROLD A. FRANCHERE and AUGUSTUS E. JEPP, Lake Crystal, Minn., assignors of seventy per cent to S. L. Sherwin, F. W. Franchere, B. R. Thomas, and C. A. Johnson, Lake Crystal, Minn., and thirty per cent to said Harold A. Franchere. Filed Dec. 22, 1928. Serial No. 327,920. 8 Claims. (Cl. 221—51.)

1. In a fluid dispensing device of the class described, a fluid container, a piston mounted for reciprocation within said container, a discharge nozzle, and a delivery conduit within the container communicating with the discharge nozzle and in constant contact with the piston head, a valved air inlet, connected with the container adjacent the bottom thereof.

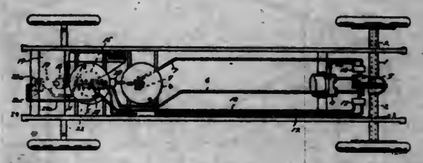


1,751,733. WINDOW GUIDE. RICHARD T. GRIFFITHS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed July 28, 1926, Serial No. 124,263. Divided and this application filed Feb. 8, 1927. Serial No. 166,757. 2 Claims. (Cl. 296—44.5.)



1. A flexible window guide comprising a substantially flat strip of rubber enveloped in fabric and having one face plane and the opposite face provided with a pair of parallel channels equidistant from the margins, the fabric extending down into said channels into engagement with the fabric on the opposite face to provide flexible fabric hinges, the strip being adapted to be readily folded into channel form about the flexible fabric hinges without stress on the rubber or unfolded and laid flat without stress on the rubber as desired.

1,751,734. STEAM MOTOR VEHICLE. JOHN A. HARRIS, Detroit, Mich. Filed Feb. 11, 1927. Serial No. 167,889. 2 Claims. (Cl. 180—67.)



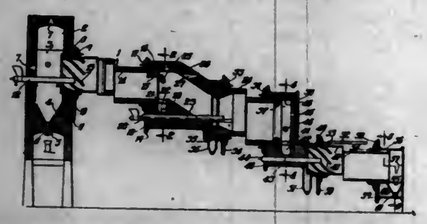
1. In a vehicle power plant, a steam boiler, a heater disposed in the upper portion of said boiler, means for discharging feed water upon said heater, a second heater spaced below the first mentioned heater, and means for automatically maintaining the water level in said boiler below the lowermost heater.

1,751,735. SHADE-OPERATING MEANS. JOSEPH H. HICINBOTHEM, Fort Thomas, Ky. Filed Mar. 30, 1926. Serial No. 98,480. 3 Claims. (Cl. 156—28.)



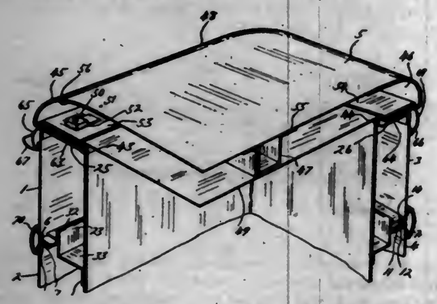
1. In means of the character described, a vacuum tank, a cylinder, a plunger slidably mounted in said cylinder, a wire operatively connected to each side of said plunger, a control valve for said plunger comprising a plate having its outer edges bent to form channeled retaining members and having openings therein, tubes connecting each end of said cylinder with said valve, a second plate adapted to slide within said channeled retaining members and having air openings therein adapted to alternately register with openings in said first-mentioned plate, a hollow-member secured to said sliding-plate, a cork inserted in said hollow-member and frictionally engaging said channeled plate, a hollow connection extending from said vacuum tank through said cork to form communication wtih opposite sides of the cylinder and means for moving said hollow member.

1,751,736. APPARATUS FOR REDUCING OXIDES OF METALS. JOHN W. HORNSEY, Oakes-in-Norton, by Sheffield, England, assignor to Granular Iron Company, a Corporation of Michigan. Filed Sept. 8, 1926. Serial No. 134,287. 11 Claims. (Cl. 263—32.)



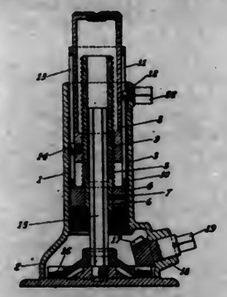
8. An apparatus of the character described comprising cylinders through which the charge is fed in succession and treated, gas sealing means between the ends of the cylinders and dust collecting means at the bottom of said gas sealing means.

1,751,737. VEHICLE BODY CONSTRUCTION. WILLIAM J. HOSKYNS, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed July 26, 1926. Serial No. 125,040. 7 Claims. (Cl. 296—28.)



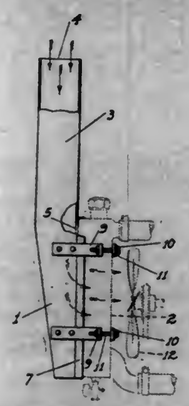
1. A wall structure for vehicle bodies comprising two sheet metal panels having inturned flanges at their adjacent edges, tongues projecting from the flange of the upper panel and bent around the adjacent edge of the flange of the lower panel to a point adjacent to said lower panel, tongues projecting from the flange of the lower panel and bent around the adjacent edge of the flange of the upper panel to a point adjacent to said upper panel, a strip of molding upon the outer side of said panels concealing the joint therebetween, a reinforcing strip upon the inner side of said panels, and a connection between said strips including a part extending between the flanges aforesaid.

1,751,738. MULTIPLE-LIFT SCREW JACK. ION VON KEET HOTT, Dayton, Ohio, assignor to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 13, 1926. Serial No. 94,396. 18 Claims. (Cl. 254—102.)



1. In a lifting jack, a hollow standard having internal screw threads, a member rotatably mounted in said standard and having threads engaging the threads of said standard, a screw mounted in said standard, connected with said member for axial movement therewith and having external screw threads, a lifting element having threaded engagement with said screw, and means for rotating said threaded member and said screw.

1,751,739. DUST-ELIMINATING AIR DUCT FOR RADIATORS. JOHAN S. JACOBSEN, Lodi, Calif. Filed Mar. 22, 1927. Serial No. 177,255. 3 Claims. (Cl. 257—132.)

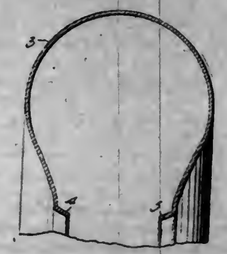


1. An airduct attachment for a gas-engine radiator, comprising a casing to abut against and cover the front of the radiator and having an opening to register with the air passage of the radiator; and another opening freely open to the atmosphere in a plane above that of the radiator, means on the casing for positively locating the same relative to the radiator, and means for clamping the casing against the radiator.

1,751,740. PROCESS OF SEPARATELY RECOVERING SOLUBLE SUBSTANCES IN A COARSE GRANULAR CONDITION. FINN JEREMIASSEN, Oslo, Norway, assignor to A/S Krystal, Oslo, Norway. Filed Dec. 24, 1925, Serial No. 77,579, and in Norway Jan. 12, 1925. 2 Claims. (Cl. 23—44.)

1. A process of separately recovering soluble substances in a coarse granular form from solid mixtures of substances which comprises forcing a solvent through a body of subdivided solid mixture, supersaturating the resulting solution by evaporating solvent therefrom, passing the supersaturated solution into and through a collection of granules of the kind of substance to be separately recovered, passing the solution away from said collection of granules of substance, and effecting undersaturation of the solution by introducing into the liquid condensed solvent vapors, said vapors being condensed under such conditions as to give off latent heat to the solution, and passing the resulting under-saturated solution into and through a body of subdivided solid mixture from which the substance is separately recovered.

1,751,741. INTERNAL SPRING-METAL REENFORCING MEMBER. VICTOR KARBOWSKI, Chicago, Ill., assignor to Felix S. Feldheim, Evanston, Ill. Filed Sept. 7, 1926. Serial No. 134,052. 1 Claim. (Cl. 152—8.)



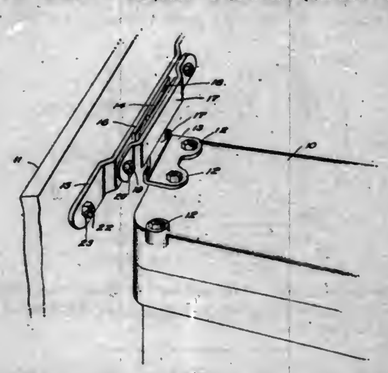
A reenforcing member for tires consisting of a single piece of spring sheet metal of uniform thickness bent to form a split annulus having a substantially cylindrical cross section, the edges being normally inclined toward one another and being provided with flanges, said flanges being adapted to be brought into a transverse alignment by external pressure on the walls of the reenforcing member.

1,751,742. SHOE AND INSOLE. PAUL F. W. C. KRIPPENDORF, Lynn, Mass., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Jan. 23, 1926. Serial No. 83,376. 16 Claims. (Cl. 36—71.)



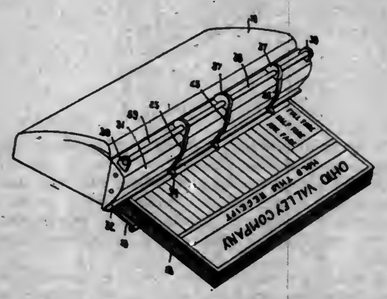
1. A shoe having an insole the forepart of which has a flat area extending from a line at the rear of the ball line of the foot and diminishing in width transversely of the shoe to a point between the great toe and the second toe, the surface of the insole outside of and forward of said area extending upwardly and outwardly to afford a bearing surface for the outer portion of the toes.

1,751,743. ENGINE. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed Dec. 4, 1926. Serial No. 152,689. 2 Claims. (Cl. 180—64.)



1. In combination with the engine and dash of a motor vehicle, means for damping relative movement therebetween comprising, a member having a friction material attached thereto secured to the front face of said dash, a metal strip having a friction material attached thereto resiliently supported by said member in spaced relation thereto, and an L-shaped member secured to the upper face of said engine with its upwardly extending portion extending between said friction materials to be frictionally engaged thereby.

1,751,744. TICKET HOLDER. MURDOCK MACDONALD, Cleveland, Ohio. Filed Feb. 10, 1927. Serial No. 167,146. 4 Claims. (Cl. 206—40.5.)

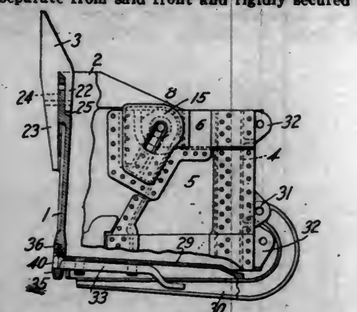


1. In a ticket holder, the combination of a box-like casing open at one side, pad-holding means hinged to one edge of such open side, means adapted to maintain said pad-holding means pressed toward the other edge of such open side, and a metallic plate secured to and embracing said casing contiguous to said last-named casing edge, said plate being formed of monel metal and being bent outwardly to provide a cutting edge adjacent said pad-holding means.

1,751,745. EXCAVATING DIPPER. WALTER H. MILEY, Marion, Ohio, assignor to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Original application filed Feb. 21, 1927, Serial No. 169,786. Divided and this application filed Sept. 7, 1927. Serial No. 218,061. 4 Claims. (Cl. 37—141.)

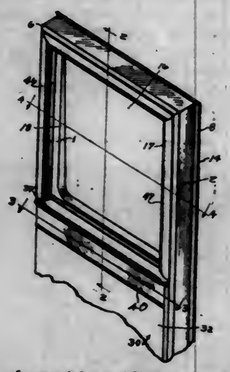
3. In an excavating dipper, a front having a smooth inner surface provided at its upper edge with a transverse recess, dipper teeth secured to said front and each having a part extending into said recess and of a thickness sub-

stantially equal to the depth of said recess, and fillers formed separate from said front and rigidly secured there-



to between adjacent teeth and having their inner surfaces substantially in the plane of the inner surface of said teeth and said front.

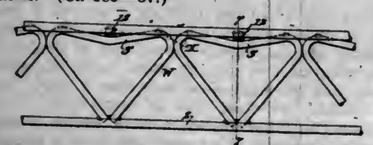
1,751,746. DOOR CONSTRUCTION. CHARLES MORGANA, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1927. Serial No. 158,750. 13 Claims. (Cl. 296—44.)



2. A strip of garnish molding comprising a channel-shaped member having portions cut away at its opposite ends for receiving portions of pillars and the like, one of the flanges of the channel being provided at its opposite ends with inwardly extending open return-bent portions for receiving the side edges of a panel of trimming material.

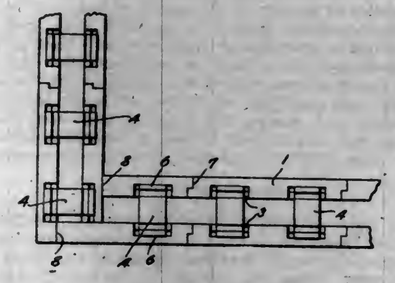
3. A molding strip for doors and the like comprising a substantially flat attaching portion, transversely curved portions extending longitudinally of said attaching portion and adapted to hold a wind cord and the like, and a retainer flange for a panel of trimming material projecting from one of said transversely extending portions.

1,751,747. TRUSSED STRUCTURE. FREDELLIA H. MOYER, Pittsburgh, Pa., and CARL A. FRAHM, Massillon, Ohio, assignors, by mesne assignments, to The Berger Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed May 21, 1926. Serial No. 110,717. 8 Claims. (Cl. 189—37.)



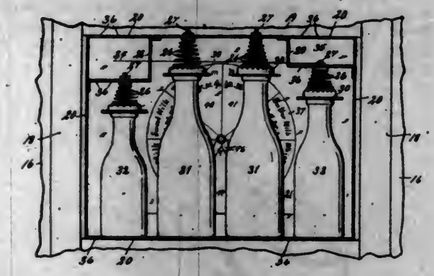
1. In a trussed structure comprising metal bars arranged as spaced flanges and a web connecting the same, a plurality of bars forming the web, each of said bars being bent to the outline of a closed geometric figure and arranged with the ends of the bar adjacent each other and adjacent one of said flanges, and means securing the said adjacent ends to each other and to the adjacent flange.

1,751,748. BUILDING BLOCK. JOHN NASH, Tacoma, Wash. Filed May 31, 1928. Serial No. 282,032. 1 Claim. (Cl. 72—102.)



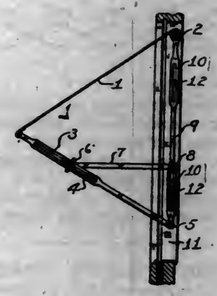
A wall made up of horizontal courses, each course comprising blocks disposed end to end, each block being provided in its upper and lower horizontal edges with seats, and with flanges extended across the seats and of less height than the seats, all of the seats being spaced from the ends of the blocks, the seats in the lower edge of the blocks of one course being in registration with the seats in the upper edge of the blocks of the course next below to form openings lying partly in one course and partly in the course next therebelow, and ties having reduced necks defining transverse heads and shoulders located inwardly of the heads, the necks being received in the openings, the heads being received in the seats of the blocks of adjoining horizontal courses, and the shoulders engaging the inner surfaces of the flanges of adjoining courses, the seats, the flanges, the heads, and the shoulders being rectangular to afford a positive interlock, the ties being of less vertical height than the blocks.

1,751,749. SANITARY MILK CABINET. THOMAS B. NETTLE and JOHN W. KLEIN, Huntington Park, Calif. Filed Aug. 12, 1927. Serial No. 212,380. 1 Claim. (Cl. 232—41.)



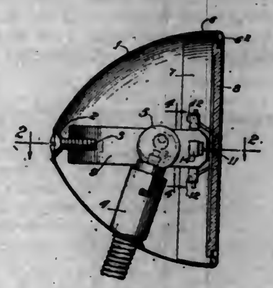
In a cabinet for holding milk bottles and sealing their open ends, the combination of a frame having a chamber therein, a plurality of springs arranged vertically, centrally and in alignment in said chamber, caps secured to the lower ends of said springs, means for supporting said springs so that said caps are supported at various elevations so they can be placed on milk bottles of various lengths, said springs arranged so they are under tension when said caps are seated on the bottles so as to hold the bottles in place and seal their open ends.

1,751,750. AUTO AWNING. GILBERT L. NEWKIRK, East St. Louis, Ill. Filed Nov. 24, 1926. Serial No. 150,492. 1 Claim. (Cl. 156—44.)



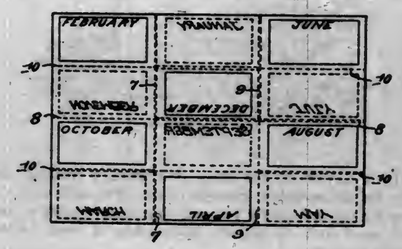
An awning bracket of the class described, comprising a holding member vertically adjustable by means of longitudinal slots in each end adapted to be slidably movable on screws screwed into a window casing, a slotted arm pivotally attached at one end to the lower end of said holding member and adapted to be attached at its opposite end to an awning, a second arm pivotally attached to said holding member intermediate of the ends of said holding member, a locking member slidable in a slot in said first mentioned arm and means for locking said first and said second mentioned arms in various adjusted positions.

1,751,751. SIDE LAMP FOR AUTOMOBILES. HOWARD H. ORTJEN, Chicago, Ill., assignor to Chicago Electric Manufacturing Co., a Corporation of Illinois. Filed July 13, 1928. Serial No. 292,353. 4 Claims. (Cl. 240—41.)



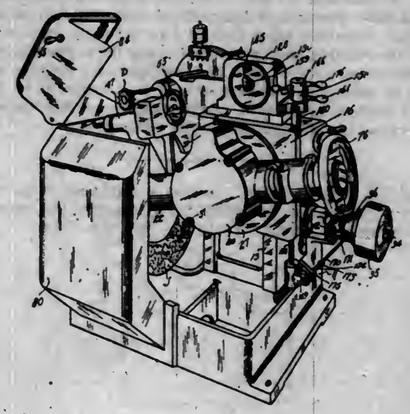
1. In a lamp of the class described, a forwardly open body, a lens ring having its peripheral portion abutting endwise against the mouth end of the body, a tubular liner secured to the inner face of the peripheral lens ring portion and having two circumferentially spaced and inwardly directed fingers, a forwardly open fork having its arms respectively interlocked with the said fingers, and a screw connecting the rear end of the body with the bight of the fork, each arm of the fork having a stiffening finger normally disposed adjacent to and behind one of the fingers on the liner to prevent a flexing of the liner finger by the rearward pull of the yoke when the screw is tightened.

1,751,752. METHOD OF MAKING CALENDARS. AUGUST F. OSTERLIND, St. Paul, Minn.; Frank H. Osterlind and John A. Jacobson administrators of said August F. Osterlind, deceased. Filed July 28, 1927, Serial No. 209,010. Renewed Sept. 12, 1929. 3 Claims. (Cl. 270—1.)



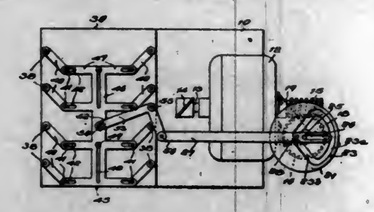
1. The method of making calendars which consists in printing upon an integral sheet a plurality of units arranged in two groups, the units of one group being disposed in spaced relation to each other and the units of the other group being printed on the reverse side of the sheet and in registry with the spaces between units of the first group, subsequently folding the sheet successively and alternately along vertical and horizontal lines to form a pad having a superficial area approximately equal to the size of one unit and in which the units are disposed in proper sequence and then separating at least some of the edges of the units to form the leaves of a pad.

1,751,753. GEAR-GRINDING MACHINE. ALBERT J. OTT and CONRAD L. OTT, Detroit, Mich., assignors to American Grinder Company, Detroit, Mich., a Corporation of Michigan. Filed July 27, 1925. Serial No. 46,385. 20 Claims. (Cl. 51—52.)



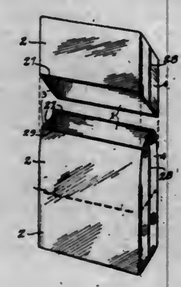
1. In a gear grinding machine, a reciprocating carriage, an oscillating work spindle thereon adapted to carry the gear to be ground, a grinding wheel below said work spindle having a plane face, a wheel spindle extending perpendicularly to said face, and means for adjustably mounting said wheel spindle on said base, whereby the plane of said face is inclined alternatively in opposite directions corresponding to the pressure angle of said gear.

1,751,754. ELECTRIC HEATER. ELLSWORTH B. OVERSHINER, Chicago, Ill., assignor of one-half to Florence M. Jackson, Chicago, Ill. Filed Jan. 24, 1929. Serial No. 334,639. 10 Claims. (Cl. 219—39.)



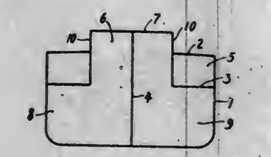
1. In a device of the class described, a heating unit, means for projecting a current of air over said unit, and means for intermittently interrupting said current so as to permit said unit to acquire increments of heat between successive blasts.

1,751,755. COLLAPSIBLE AND REDUCING BOX. GEORGE W. PARIS, Rochester, N. Y., assignor to Karle Lithographic Company, Rochester, N. Y. Filed July 3, 1928. Serial No. 290,157. 2 Claims. (Cl. 229—6.)



1. A container formed in separable sections defined by score lines arranged peripherally of said container, a face of said container being divided longitudinally by a score line intersecting said peripheral scole lines whereby one section when torn off, can be telescoped over another section by depressing the part of said face embraced in said other section along said longitudinal score line thereby narrowing the width of said other section.

1,751,756. TANK SHIP. REGINALD PAULSEN, Oslo, Norway. Filed Jan. 20, 1928, Serial No. 248,187, and in Norway Feb. 3, 1927. 2 Claims. (Cl. 114—74.)



1. A tank ship comprising a shell, a main deck, a second deck, an expansion trunk extending from the second deck up through and to a point above the main deck and having walls extending longitudinally of the vessel and spaced from the sides thereof and a longitudinal midship partition extending from the bottom of the shell or keel to the top or deck of the expansion trunk, said expansion trunk communicating with main tank spaces below the second deck and at opposite sides of the ship.

1,751,757. HEAT EXCHANGER. WALTER BENSON PHILLIPS, Liberty, Mo., assignor to Walter M. Cross, Kansas City, Mo. Filed Jan. 14, 1928. Serial No. 246,766. 2 Claims. (Cl. 257—263.)



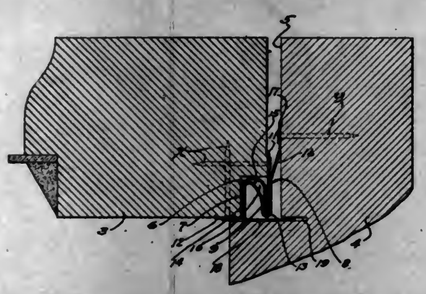
1. A heat exchanger comprising sets of corrugated sheets positioned to form separate tubular passageways between the individual sheets, said sets arranged to have the surface corrugations conform with the corrugations of adjoining sets of sheets, and separate spacer elements conforming with the corrugations of the sets of sheets for holding the sets of sheets in spaced apart relation.

1,751,758. METHOD OF MAKING TURBINE BLADES. JAMES L. RAY, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 1, 1928. Serial No. 296,853. 7 Claims. (Cl. 29—156.8.)



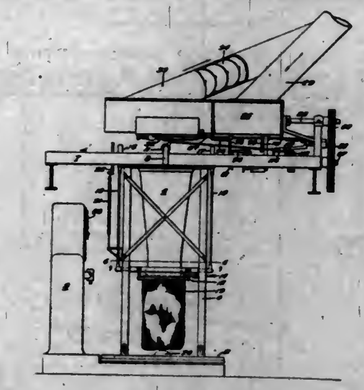
1. The method of forming a blade which comprises forming a hole extending from the tip toward the base of the blade forming portion of a blade blank, filling the hole with a yieldable mass, reducing the blank to the form of a blade, and removing the filling from the hole.

1,751,759. SELF-ADJUSTING INTERLOCKING WEATHERSTRIP DEVICE. FRANK REESE, Minneapolis, Minn., assignor to Reese Metal Weather Strip Co., Minneapolis, Minn., a Corporation of Minnesota. Filed May 16, 1929. Serial No. 363,475. 12 Claims. (Cl. 20—69.)



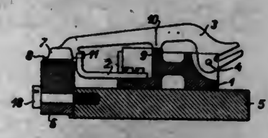
1. A weather strip device for a pair of members, one of which is relatively stationary and the other of which is relatively swingable, said weather strip comprising a pair of self-adjusting interlocking elements applicable one to each of said members, one of said elements having a primary U-shaped fold and a secondary U-shaped fold which are laterally spaced and reversely extended, the outer side of the secondary fold having a laterally projecting flange that has sliding contact with a part on the respective member, the other of said elements being in the form of a tongue arranged to be pressed into the primary fold of the other element with a wiping contact.

1,751,760. WEIGHING MACHINE. WILLIAM H. REES, Berkeley, Calif. Filed Jan. 3, 1923. Serial No. 610,456. 18 Claims. (Cl. 249—64.)



1. A weighing and loading machine comprising a receptacle, means for feeding material to said receptacle, means for weighing the material in said receptacle, and mechanism including control means spaced from the weighing means and responsive to the weight of the material in the receptacle for interrupting all but a dribble flow of material when less than the predetermined load has been fed into said receptacle, and for interrupting the dribble when substantially the predetermined load is in said receptacle.

1,751,761. TYPE HEAD FOR TYPEWRITERS AND THE LIKE. ALBERT RODRIAN, Potsdam, Germany. Filed Dec. 16, 1927, Serial No. 240,531, and in Germany Mar. 24, 1927. 3 Claims. (Cl. 33—18.3.)



3. In apparatus for adjusting type-heads on type-levers, a carrier equipped at one end with positioning means adapted to be engaged by the type-lever and at the other end with a seat upon which the type-head may be adjusted to position; the carrier being further provided adjacent such seat, and beyond such seat and on the side thereof opposite the said type-lever positioning means, with a type-head positioning device, such type-head positioning device being adapted to cooperate with a type-head equipped with a complementary part and by such cooperation to effect accurate placement of the type-head on such seat.

1,751,762. ROPE FASTENER. ARTHUR SCHOENBERGER, Pittsburgh, Pa. Filed July 30, 1929. Serial No. 382,107. 4 Claims. (Cl. 24—130.)



1. Fastening structure comprising a hook, a gripping member of flattened tubular form adapted to receive a doubled portion of a rope, and having a V notch in one edge thereof and also having a perforation for the reception of the hook.

1,751,763. IMITATION BRAIDED BUTTON. SAMUEL SCHLOSBERG, New York, N. Y. Filed Nov. 14, 1928. Serial No. 319,347. 1 Claim. (Cl. 24—113.)

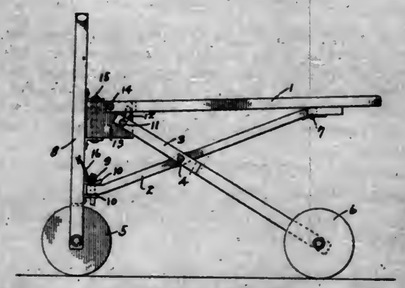


An imitation braided button comprising a shell, a one-piece leather covering for said shell and of considerable thickness, a closing disk for said shell, a covering for said closing disk, a loop passing through said closing disk, the ends of said loop being provided with heads of greater width than the midportion, said heads being arranged at the inner side of said closing disk to retain said loop and said shell covering having embossed therein, a design.

1,751,764. CLEANING COMPOSITION. JOSEPH SENDELBACK and ROY V. PALMER, McAlester, Okla. Filed Dec. 13, 1927. Serial No. 239,814. 1 Claim. (Cl. 87—5.)

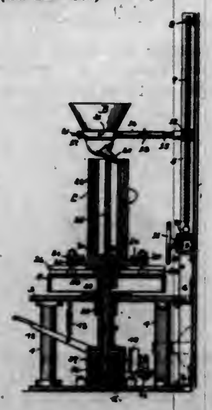
A cleaning composition consisting of substantially eight ounces of caustic potash dissolved in one gallon of alcohol and containing substantially two ounces of oil of eucalyptus, said solution carrying in suspension substantially five ounces of powdered alum.

1,751,765. COLLAPSIBLE KIDDY CAR. THOMAS G. SHANNON, San Francisco, Calif., assignor of one-half to Frank T. Marquis, San Francisco, Calif. Filed Oct. 15, 1927. Serial No. 226,430. 2 Claims. (Cl. 208—165.)



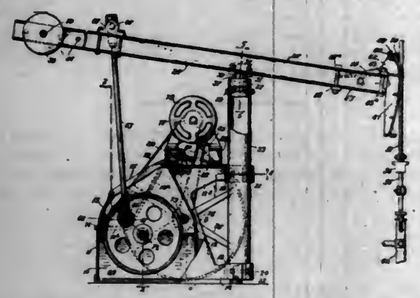
1. A kiddy car comprising a seat, a supporting member pivoted to the front of the seat and having an arcuate slot, a steering post pivoted to said member, a wheel secured to the bottom of the post, a leg having one end slidable in the slot and carrying a wheel at the other end, and a second leg pivoted to the back of the seat and to said first leg, said second leg being removably secured to said post.

1,751,766. CASTING MACHINE. JOHN W. SMITH, Cleveland, Ohio. Filed Dec. 3, 1928. Serial No. 323,407. 16 Claims. (Cl. 22—65.)



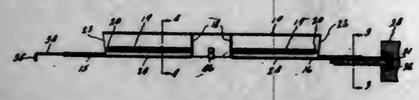
1. In a centrifugal casting machine, a rotatable support for a mold, a receptacle for delivering molten metal to the mold, and means for supporting said receptacle adjustably in different delivery positions opposite the mouth of the mold.

1,751,767. PUMPING APPARATUS. JOHN B. SPERRY, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed June 15, 1925. Serial No. 37,031. 20 Claims. (Cl. 74—14.)



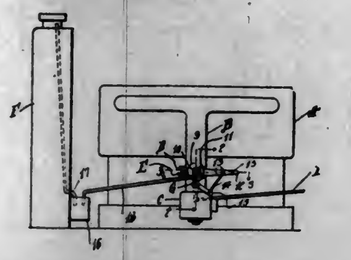
1. A power head of the type described, comprising a housing, driving gears mounted therein, a lower bracket projecting laterally from said housing, an upper bracket projecting from said housing over said lower bracket, and vertically alined semi-circular clamping members carried by said brackets adapted to receive and support a tubular standard.

1,751,768. VENTILATOR. HARVE R. STUART, Springfield, Ohio. Filed Mar. 1, 1928. Serial No. 258,382. 13 Claims. (Cl. 98—2.)



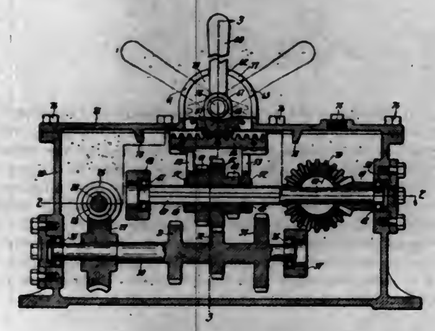
1. A ventilator adapted for use in a vehicle window opening having opposite glass receiving side channels and a vertically adjustable window glass therein, comprising ventilating means formed of telescoping sections, and an associated elongated part, which provides an open ended tubular passage in communication with the interior of the vehicle, spring means urging said sections to extended positions, and means adapted to be inserted in said side channels for mounting said ventilating means outside the window glass to provide for vertical adjustment of the window glass along the inner side of the ventilating means.

1,751,769. AIR AND VAPOR SUPPLY DEVICE FOR INTAKE MANIFOLDS. GEORGE W. STULTZ, Huntington, W. Va. Filed Nov. 17, 1927. Serial No. 233,883. 1 Claim. (Cl. 123—25.)



An air and vapor supply device for intake manifolds, comprising a hollow gasket adapted for insertion in an intake manifold and having openings to aline with the interior of the manifold, a chamber communicating with the hollow gasket and having a wall provided with a plurality of openings communicating with the chamber, a tubular member secured in one of said openings and adapted to convey vapor to said chamber and gasket, and a valve member pivotally mounted on said wall and including a plate having a slotted opening receiving said tubular member and adapted to aline with the other openings in the plate in certain positions thereof.

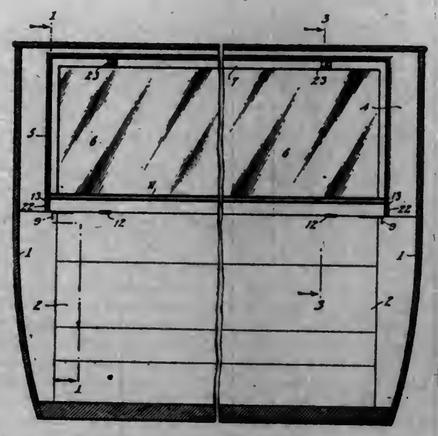
1,751,770. TRANSMISSION MECHANISM. FREDERICK A. SWEET, Salt Lake City, Utah. Filed May 2, 1928. Serial No. 274,516. 10 Claims. (Cl. 74—58.)



1. In a transmission mechanism, a group of gears rotatably mounted in axial alignment with and spaced apart from each other, a gear cluster movable axially along said group, a carriage in which said cluster is rotatably mounted, said carriage including two mutually reversed complementary parts having journals therein, and means for moving said carriage back and forth.

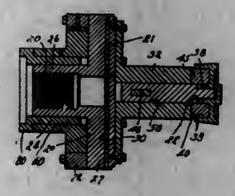
1,751,771. AUTOMOBILE BODY. GEORGE TASMAN, New York, N. Y., assignor to Locke & Co., New York, N. Y., a Corporation of New York. Filed Sept. 2, 1926, Serial No. 133,248. Renewed Feb. 8, 1929. 8 Claims. (Cl. 296—48.)

1. A car body having a hollow transverse partition inclined rearwardly from its lower to its upper end, perpendicular uprights extending upwardly from the partition, a window guide frame pivotally connected to the partition at a point adjacent to the top of the partition and adapted



to be swung from a position in alinement with the hollow partition and to a perpendicular position between the uprights, and a sliding sash movable in said guide frame.

1,751,772. DEVICE FOR FORMING ELLIPTICAL PARTS. BERTRAM C. TRAVIS, Los Angeles, Calif., assignor of one-half to Pacific Copper and Brass Works, Incorporated, Los Angeles, Calif., a Corporation of California. Filed Apr. 6, 1927. Serial No. 181,373. 14 Claims. (Cl. 82—19.)



1. A device of the character described including a drive member to be rotated, a head mounted on the drive member to be movable diametrically thereof, a stationary eccentric, and a part rotatably mounted on the eccentric and having a sliding connection with the head, the drive member being rotatable in the eccentric.

7. A lathe attachment including a drive member to be mounted on the spindle of a lathe, a head mounted on the drive member to be movable diametrically thereof, an eccentric, means connecting the eccentric and lathe so that the eccentric is stationary, and a part carried by the eccentric and having a sliding engagement with the head, said means including a part fixed to the lathe and having a plurality of notches and a latch carried by the eccentric operable to engage one of the notches.

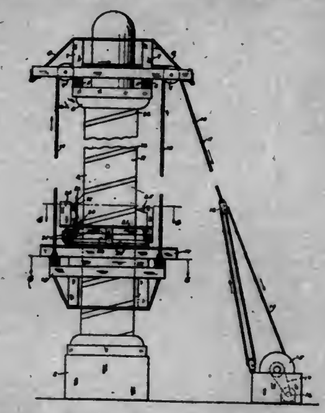
1,751,773. TOY FIGURE. BAB BELL TROSPER, near Monroe City, Mo. Filed Apr. 12, 1928. Serial No. 269,543. 8 Claims. (Cl. 46—40.)

1. A toy figure of the character described comprising a jaw manually operable to form an open mouth, and a body having walls forming an interior chamber adapted to receive its contents through the mouth, and provided



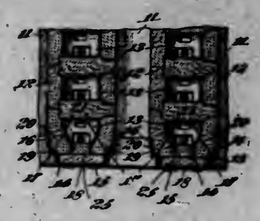
with a check valve having self-closing flaps opening inward and preventing discharge of the contents through the mouth.

1,751,774. MOVABLE CAMERA SUPPORT. WILLIAM L. TRULLINGER, Astoria, Oreg. Filed May 24, 1927. Serial No. 193,936. 3 Claims. (Cl. 88—24.)



2. A movable camera support comprising a frame for encircling a column having a spiral picture thereon, a turn-table carried by said frame, a camera mounted upon said frame, a pointer carried by said turn-table, the end of said pointer registering with the marginal edge of the picture for centering the camera with respect to the picture on the column, and means for moving said frame spirally for causing the camera to follow the spiral picture.

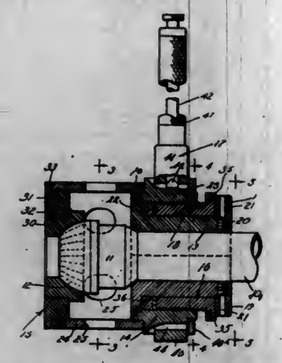
1,751,775. COKE-OVEN HEATING FLUE. CHARLES E. UNDERWOOD and JAMES A. BEATTY, Bethlehem, Pa., assignors to Bethlehem Steel Company. Filed Apr. 27, 1926. Serial No. 104,894. 4 Claims. (Cl. 202—248.)



1. In a coke oven heating flue, side walls and end bricks therebetween, the outer faces of the center bricks being

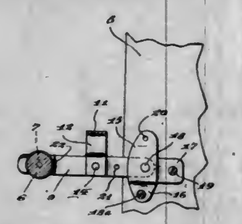
substantially flush with the ends of the side walls, filler bricks disposed outwardly of the center bricks and masking the joints between the side walls and center bricks, and flash plates embracing the filler bricks and the terminal portions of the side walls.

1,751,776. TUBE-FACING TOOL. WILLEM VAN EE, Long Beach, and ALEXANDER HENDREN WATSON, Redondo Beach, Calif. Filed Sept. 29, 1927. Serial No. 222,780. 7 Claims. (Cl. 82—4.)



1. A device for dressing the end of a tube including a split bushing to be applied to the tube and having a shoulder, a feed member rotatably carried on the bushing opposite the shoulder, a body threaded to the feed member, a cutter head carried by the body, and means for rotating the body.

1,751,777. APPAREL APPARATUS. MORRIS VICTORSOHN, Brooklyn, N. Y. Filed Feb. 25, 1929. Serial No. 342,572. 2 Claims. (Cl. 312—185.)

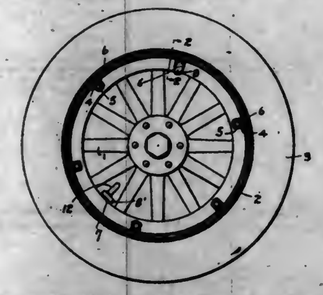


2. A device of the character described adapted to be secured to the sides of a container, a pair of arms pivotally borne by said container, a hanger carried by the upper ends of said arms and a supplemental hanger connecting the intermediate portions of said arms and positioned laterally of the vertical plane of said first-named hanger in all positions of said hanger.

1,751,778. METHOD FOR MAKING ZINC FROM OXYGEN COMPOUNDS OF ZINC OR SUBSTANCES CONTAINING OXYGEN COMPOUNDS OF ZINC. CONWAY FREIHERR VON GIESEWALD and HANS NEUMARK, Frankfort-on-the-Main, Germany. Filed Oct. 12, 1928, Serial No. 312,205, and in Germany Oct. 13, 1927. 7 Claims. (Cl. 75—28.)

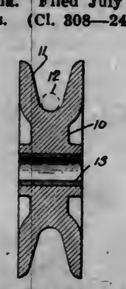
1. A method for making zinc from oxygen compounds of zinc or substances containing oxygen compounds of zinc which consists in heating to moderate temperatures and at reduced pressure mixtures of the zinc containing raw materials with reducing metals and distilling off the zinc produced.

1,751,779. WHEEL-RIM LOCK. BOYD V. VON SENDEN, San Francisco, Calif., assignor of one-third to Theodore Hardee and one-third to Guy N. Bjorge. Filed Jan. 10, 1927. Serial No. 160,048. 2 Claims. (Cl. 70—122.)



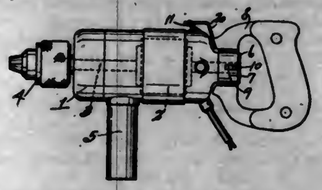
1. A key operated lock formed to slip over the outer end of a bolt, a nut on said bolt inward of the lock, said lock provided with means engaging the threaded bolt against withdrawal of the lock, said means comprising a spring latch adapted to snap into engagement with a groove in said bolt upon the lock being axially slid over the same, and a circular flange on said lock arranged to freely embrace said nut.

1,751,780. BEARING MATERIAL FOR CURRENT-TRAVERSED BEARINGS. JOSEPH A. WEIGEL, Union City, N. J., assignor, by mesne assignments, to P. R. Mallory & Co., Incorporated, Indianapolis, Ind., a Corporation of Indiana. Filed July 9, 1927. Serial No. 204,476. 2 Claims. (Cl. 308—240.)



1. A bearing for devices adapted to be traversed by electrical currents without pitting; comprising a sleeve member adapted to fit over a journal member through which an electric current may pass; said sleeve member having a body of metallic tungsten impregnated with a relatively light, low melting-point metal and a relatively small amount of a hardening agent whereby to impart hardness and self-lubricating characteristic to the sleeve member, the tungsten being taken in an amount not greater than eight parts by weight for a whole of ten parts.

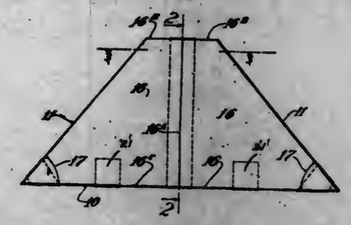
1,751,781. MOTOR-DRIVEN-TOOLS SWITCH. THEOBALD C. WEISS, South Bend, Ind., assignor to Electric Sprayit Company, South Bend, Ind. Filed Apr. 20, 1929. Serial No. 356,867. 8 Claims. (Cl. 200—157.)



1. In a motor driven tool, a casing, a motor, means for actuating said motor, control means for said motor

actuating means, and a pressure handle for manually applying force to said tool, said handle having a sliding relation with respect to said casing whereby to actuate said control means to start and stop the motor.

1,751,782. CARTON FOR SECTORAL CANOPIES. GEORGE MCLEAN WELLS, Macomb, Ill., assignor to American Steel Products Co., Macomb, Ill., a Corporation of Illinois. Filed Mar. 29, 1929. Serial No. 350,858. 4 Claims. (Cl. 229—22.)

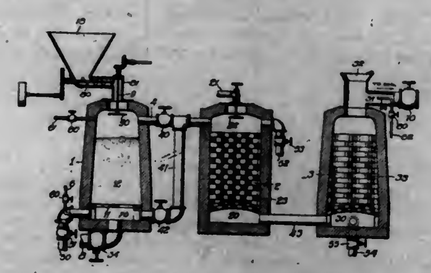


1. A foldable carton sheet comprising a laterally symmetrical central portion having upwardly converging side edges and having parallel top and bottom edges, four rectangular wing portions of equal width respectively extending outwardly from the four edges of the said central portion and each of the same length as the edge from which it extends, and four flap portions respectively extending from the free edges of the wing portions and each having its inner edge of the same length as the wing portion from which it extends; each of the two flap portions connected by wings to the converging edges of the central carton portion corresponding in size and shape to one lateral half of the said central portion.

1,751,783. PROCESS FOR THE ELIMINATION OF SILICON IN FERROPHOSPHORUS. HAROLD E. WHITE, Anniston, Ala., assignor to Federal Phosphorous Company, Birmingham, Ala., a Corporation of Alabama. Filed Sept. 4, 1925, Serial No. 54,547. Renewed Jan. 11, 1930. 3 Claims. (Cl. 23—204.)

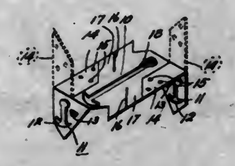
3. A smelting process for the elimination of silicon in ferro-phosphorus, which consists in charging an electric smelting furnace with phosphatic and siliceous materials, and adding high silicon ferro-phosphorus as a reducing agent in amount equal to substantially 90% of the calculated quantity required to reduce the charge.

1,751,784. APPARATUS FOR THE MANUFACTURE OF ILLUMINATING GAS. DANIEL J. YOUNG, Tacoma, Wash., assignor to Young-Whitwell Gas Process Co., Tacoma, Wash., a Corporation of Washington. Original application filed June 14, 1921, Serial No. 477,865. Divided and this application filed Aug. 20, 1923. Serial No. 658,893. 28 Claims. (Cl. 48—80.)



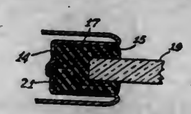
15. A carbureted water gas set comprising a single generator, a single carburetor, and a single superheater, and pipe connections between the individual shells of the set including a connection between the generator and carburetor, means for supplying steam to the set, and combustible gas offtakes from the set leading directly from the superheater and generator, the gas offtake from the generator being separate from and independent of the connection between the generator and carburetor, thereby allowing a free and unobstructed passage between said generator and carburetor.

1,751,785. SCREED HOLDER. SAMUEL C. AWBREY, Kansas City, Mo., assignor to Ethel Awbrey, Kansas City, Mo. Filed Oct. 5, 1928. Serial No. 310,654. 4 Claims. (Cl. 72—101.)



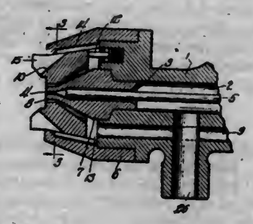
1. A screed holder comprising a body portion adapted to rest on the surface of a concrete slab, downwardly extending flanges for insertion in the concrete, and screed engaging members contiguous with said flanges respectively and normally positioned in the plane of the body portion and adapted to be bent to the plane of said downwardly extending flanges, to receive a screed therebetween, and tongues extending from within said body portion to opposite sides thereof.

1,751,786. WINDOW CUSHION. FRANK A. BEST, Ford, Ontario, Canada, assignor to Backstay Welt Company, Union City, Ind., a Corporation of Indiana. Filed Feb. 25, 1929. Serial No. 342,650. 3 Claims. (Cl. 20—56.4.)



1. In combination, a glass panel, a channel receiving an edge of said panel, and a cushion for the panel including a strip of resilient material having a base, leg portions projecting from the base and flanges inturned from said leg portions, the inturned flanges resting against the base of the channel, and the base of the strip being pressed inwardly between the leg portions thereof and constituting a channel-shaped seat for the glass panel.

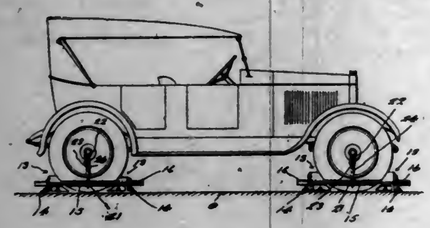
1,751,787. FLAT SPRAYING APPLIANCE. HARRY D. BINKS, Oak Park, Ill., assignor, by mesne assignments, to Binks Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Nov. 10, 1924. Serial No. 748,876. 5 Claims. (Cl. 91—45.)



1. In a flat-spray producing appliance, means for projecting a forwardly directed stream of liquid, and an air-

port member mounted for rotational adjustment about the axis of the said stream and having at the radially outer edge of its forward end a pair of diametrically opposite notches having flat sides parallel to the axis of the stream, the said flat sides of each notch alining respectively with those of the opposite notch.

1,751,788. FREIGHT-CAR SHIPPING APPLIANCE. GEORGE BOROWKA, Grand Rapids, Mich. Filed Feb. 8, 1929. Serial No. 338,460. 4 Claims. (Cl. 105—368.)



1. In a structure of the class described, a wheel clamping and retaining device comprising a pair of complemental chocks each provided with a toothed rack bar extending through an opening in the complemental chock, individual pivotally mounted retaining latches on said chocks cooperable with the rack bars, guides for said latches, and lifting and retaining elements for the latches.

1,751,789. WELL TOOL. ALVIS F. BROWN, Whittier, Calif., assignor to Baash-Ross Tool Company, Incorporated, Los Angeles, Calif., a Corporation of California. Filed Dec. 17, 1927. Serial No. 240,744. 10 Claims. (Cl. 294—96.)



1. A well tool of the character described including, a body, means carried by the body operable to engage a casing, a tail piece for causing operation of said means, and a control normally preventing said means from being operated and operable by upward movement of the body relative to the tail piece to release said means for operation.

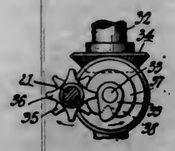
1,751,790. JAR-DOWN SPEAR. ALVIS F. BROWN, Whittier, Calif., assignor to Baash-Ross Tool Company, Incorporated, Los Angeles, Calif., a Corporation of California. Filed Dec. 17, 1927. Serial No. 240,745. 10 Claims. (Cl. 294—96.)

1. A tool for operation in a well casing including, a body, means carried by the body for engaging the casing, a tail piece, a stem movable relative to the body to actuate said means, the stem carrying the tail piece and being op-



eratively connected with said means, and a latch releasably holding the stem against operation relative to the body.

1,751,791. INTERMITTENT GEARING. COLONEL H. BROWN, Wellston, Ohio. Filed May 27, 1927. Serial No. 194,701. 1 Claim. (Cl. 74—41.)



In a Geneva wheel mechanism, shafts and mechanism for connecting the shafts, said mechanism comprising like star wheels on one shaft, the star wheels having their sides in engagement, and having arcuate recesses in their edges, the recesses defining fingers in the star wheels, and a disc and an arm on the other shaft, the disc and the arm having their sides in engagement, the disc being in the form of a circle throughout the major portion of its periphery and being shaped to fit closely in the recesses of one of the star wheels, the disc having a notch in its edge for the reception of the fingers of said star wheel, one at a time, the fingers of the other star wheel overlying the disc, one at a time, and the arm cooperating with the fingers of the said other star wheel.

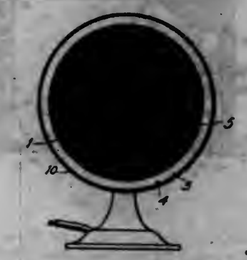
1,751,792. BRACELET. EDWIN G. CARLSON, Riverside, R. I., assignor to Speidel Chain Co., Providence, R. I. Filed May 24, 1929. Serial No. 365,696. 3 Claims. (Cl. 59—80.)



2. A bracelet comprising a link band formed of doubled link plates each having a closed side, an open side and

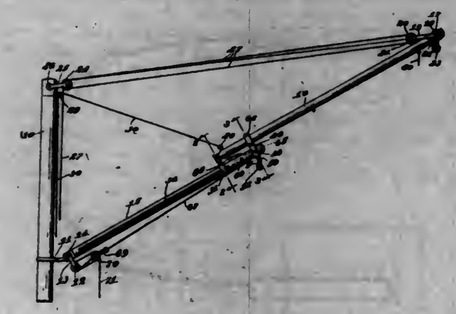
normally open ends, the closed side of each link facing and closing the open side of the adjacent link, and pintle pins fitted in the closed sides of the links and projecting beyond the ends of the link plates, the doubled links having at their open sides wings folded to form knuckles receiving the ends of the pins and additional closure flaps for the knuckles, the closed knuckles of each link projecting beyond the open side of the link and overhanging the closed side of an adjacent link.

1,751,793. FAN PROTECTOR. EMMA K. COOK, St. Louis, Mo. Filed Sept. 21, 1928. Serial No. 307,464. 1 Claim. (Cl. 230—275.)



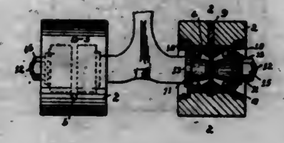
A detachable fan protector of the class described, comprising a hollow cylinder made of fine mesh wire cloth, cut to shape and joined together by woven cloth tape, stitched through and through along the marginal edges of the wire cloth and the woven cloth tape, thereby to form a hollow cylinder closed at one end and open at the other end, a wire cloth disc bound about its marginal edges by fabric tape stitched through and through said tape and said wire cloth disc, said disc having a circular opening in its center, the periphery of which is concentric with the periphery of said disc, the marginal edges of said disc being bound with tape, fasteners spaced apart about the rim of said hollow cylinder and about the periphery of said disc, said fasteners on said disc being adapted to engage said fasteners on said hollow cylinder, thereby to detachably join said disc to said hollow cylinder.

1,751,794. EXTENSION BOOM FOR DERRICKS. ALBERT C. CRANDALL, Braintree, Mass. Filed Feb. 7, 1929. Serial No. 338,101. 4 Claims. (Cl. 212—55.)



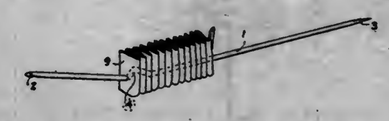
1. In a hoisting derrick, including a mast, an extensible boom comprising two main parts, the lower part being rotatably and vertically movable about said mast and provided with longitudinally disposed splines attached to either side thereof, a shackle fixed to the outer end of said boom and adapted to slidably encircle the extension boom located above it, said shackle adapted to be removed from said extension boom, a rear shackle member adapted to be attached to the rear end of said extension boom and pivotally attached thereto, said rear shackle being slidably mounted on said first boom and adapted to cooperate with said splines therein, means for swivelling said extension boom on said first boom and means for sliding said extension boom on said first boom, substantially as shown and described.

1,751,795. BALL-BEARING ROLLER. ARTHUR E. DEKOME, Cleveland, Ohio. Filed Apr. 24, 1929. Serial No. 357,724. 4 Claims. (Cl. 308—187.)



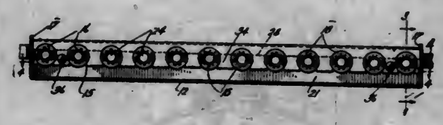
1. A ball bearing roller, including a cylindrical bushing having reversely-inclined ball-bearing seats extending outwardly on straight lines for a substantial distance from the central zone thereof and provided with inturned oil baffling flanges and oil collecting pockets annularly at each outer end thereof.

1,751,796. CROCHET NEEDLE. CHARLOTTE I. DENNER, Santa Rosa, Calif. Filed May 21, 1928. Serial No. 279,507. 3 Claims. (Cl. 66—118.)



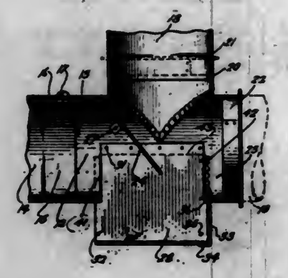
1. A crochet needle comprising a shank having a hook at one end and a needle point at the other, a portion of the shank being zig zag in shape and of the same shape in cross section as the remainder of the needle for permitting cloth to be readily fed from the pointed end to the hooked end of the needle.

1,751,797. HEATING ELEMENT FOR ELECTRIC STOVES. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Nov. 18, 1926. Serial No. 149,026. 2 Claims. (Cl. 219—37.)



1. An electric heating unit, comprising a heating element, heating element retaining members, and insulators passing through said heating element retaining members, said heating element retaining members being composed of substantially duplicated parts adapted to embrace said insulators from opposite sides and overlapping in said embrace to retain said insulators in place.

1,751,798. FLUE CONSTRUCTION. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Aug. 4, 1928. Serial No. 297,460. 7 Claims. (Cl. 126—307.)



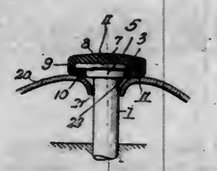
1. A flue construction, comprising a flue pipe having an inlet and a plurality of outlets individually connectible to a chimney, and means associated with said flue pipe for diverting back draft of each said outlet from said inlet.

1,751,799. WEATHERPROOF NAIL. GEORGE E. DICKSON, Chicago, Ill. Filed Oct. 2, 1925. Serial No. 60,009. 3 Claims. (Cl. 85—28.)



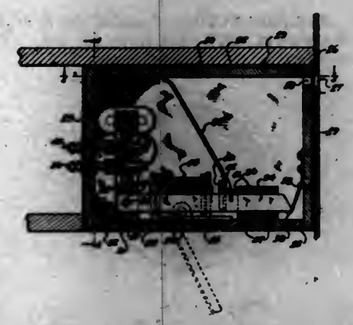
2. A weatherproof nail embodying therein a shank and a head, and a cap member of relatively soft metal enclosing said head, said cap member having a top wall, a peripheral wall and a skirt including inner and outer bevelled surfaces which meet to define an annular edge coaxial with said shank and of a diameter less than that of said head, said skirt portion being the thickest in the plane of said edge so that upon meeting that member into which the nail is driven it is deformed and compressed inwardly to conform to that portion of said member with which it engages.

1,751,800. WEATHERPROOF NAIL. GEORGE E. DICKSON, Chicago, Ill. Filed July 15, 1926. Serial No. 122,521. 4 Claims. (Cl. 85—28.)



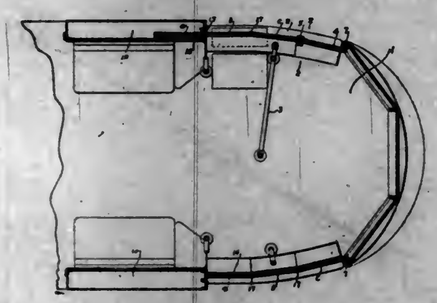
4. A weatherproof nail embodying therein a shank and a head with an annular shoulder on the underside of the head and a cap member of relatively soft metal enclosing and in direct engagement with said head and the periphery of said shoulder and terminating substantially flush with the bottom radial surface of said shoulder.

1,751,801. ELECTRICALLY-CONTROLLED RECEPTACLE CLOSURE. MAURICE J. DU FRAU, Milwaukee, Wis. Filed July 11, 1924. Serial No. 725,532. 9 Claims. (Cl. 70—50.)



1. In a receptacle, the combination with a casing, of a pivotally mounted gravity-opened closure for said casing, a locking member mounted on the closure and movable into engagement with a part on the casing to lock the closure, an electromagnet mounted on the closure and cooperating with an armature to retract said locking member out of locking position, a retaining member normally engageable with said locking member to prevent movement out of locking position, means including an electromagnet for releasing said retaining member to permit electromagnetic retraction of said locking member and subsequent fall of said closure, and conductors for said electromagnets extending through the walls of said casing.

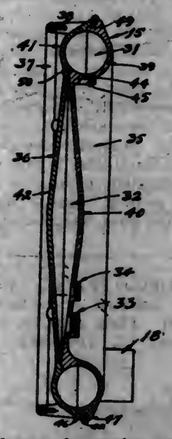
1,751,802. CONVERTIBLE SIDE-DOOR OPENING FOR RAILWAY CARS. CHARLES J. ELLIS, Cincinnati, Ohio, assignor to The Cincinnati Car Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 1, 1929. Serial No. 336,814. 11 Claims. (Cl. 105—343.)



1. In a railway car having a doorway, a panel adapted to be placed in said doorway to restrict it, and means for removably attaching said panel to the car to restrict said doorway.

2. In a railway car having a door receiving pocket and a full doorway, a panel in said doorway to restrict said full doorway to a normal doorway, and a door adapted to close either of said doorways.

1,751,803. MOLD FOR CURING HOLLOW MOLDED ARTICLES. THOMAS L. FAWICK, Racine Wis. Filed Oct. 3, 1927. Serial No. 223,529. 6 Claims. (Cl. 18—35.)



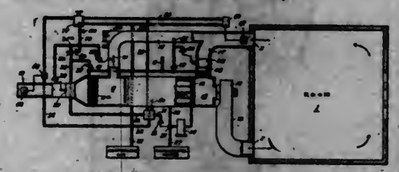
1. A split mold case for curing an inner tube comprising two parts each part comprising an annular groove portion, said grooves defining a mold for the tube and a plate within and rigid with said grooved portions, said plates defining the sides of a suction chamber.

1,751,804. EXTENSION HOLDER FOR EYEGLASSES. WILLIAM FISCHER, New York, N. Y. Filed Jan. 21, 1929. Serial No. 333,837. 3 Claims. (Cl. 88—52.)



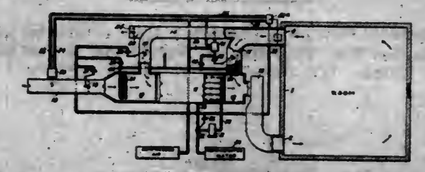
1. An extension holder for eye-glasses, comprising a frame for supporting eye-glass lenses, temple bars connected therewith, each temple bar being of two sections, telescopically engaged with each other and arranged for assuming various extended positions, one of said sections being formed with elongated slots and recesses communicating with the slots, and the other with a transverse pin engaging the slots for holding the sections against relative turning, and engageable in the recesses for aiding in holding the sections against longitudinal relative movements.

1,751,805. PROCESS OF VENTILATING. WALTER L. FLEISHER, New York, N. Y., assignor to Cooling and Air Conditioning Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 13, 1928. Serial No. 246,470. 18 Claims. (Cl. 236—44.)



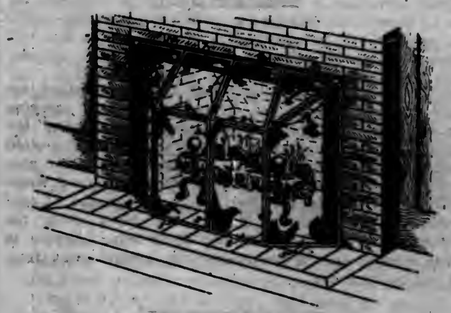
3. A ventilating system comprising, in combination, means for supplying air to an enclosure, means for conditioning said air, means for supplying fresh air and return air to the conditioning apparatus, means differentially responsive to the condition of the fresh air and of the return air for determining the proportions of fresh air and return air for conditioning.

1,751,806. VENTILATING SYSTEM. WALTER L. FLEISHER, New York, N. Y., assignor to The Cooling & Air Conditioning Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1928. Serial No. 252,759. 15 Claims. (Cl. 236—44.)



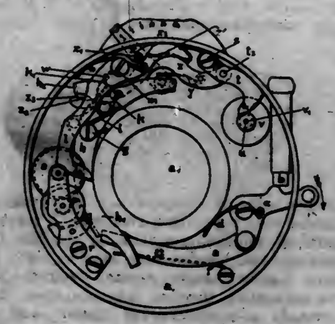
1. In a ventilating system, in combination, means for admitting external air to said room, means for maintaining a standard of humidity within a room, means responsive to external temperature conditions for varying said standard, and means for imposing a minimum and maximum limit upon such variation.

1,751,807. FOLDABLE SCREEN. HANNIBAL C. FORD, Jamaica, N. Y. Filed Jan. 24, 1929. Serial No. 334,069. 12 Claims. (Cl. 126—202.)



1. In a foldable screen, a series of vertically disposed screen-sections having parallel edges, a second series of screen-sections comprising triangular end screen-sections, the screen-sections of the latter series being flexibly connected to each other and to the screen-sections of the first series to form a top, means to limit the relative movement of the screen-sections to such an extent that the screen-sections of the second series have their free edges in the plane of the free side edges of the first series when the screen is in operative position.

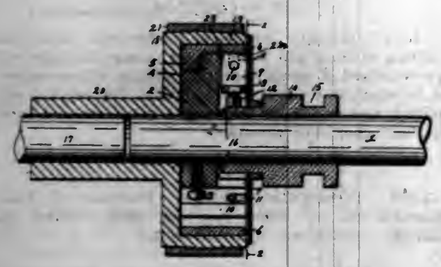
1,751,808. PHOTOGRAPHIC LENS SHUTTER. ALFRED GAUTHIER, Calmbach-on-the-Ens, Germany. Filed Jan. 30, 1929, Serial No. 336,191, and in Germany June 4, 1927. 4 Claims. (Cl. 95—63.)



1. A photographic lens shutter comprising in combination spring actuated operating means, two toothed

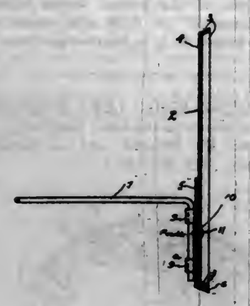
wheel retarding mechanisms, and means for bringing the said retarding mechanisms separately and independently into operative association with the said operating means as and for the purpose set forth.

1,751,809. FRICTION CLUTCH. JOHN F. GLISCH, Milwaukee, Wis. Filed May 28, 1927. Serial No. 194,933. 6 Claims. (Cl. 192—77.)



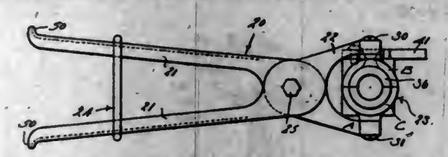
1. The combination with clutch members having opposed friction surfaces, of driving connections carrying one of said members, driven connections carrying the opposed member, a channel member providing a slotted guideway, a reciprocable block provided with pivot pins receivable in said slots, said block having a curved working face adapted, in one position, to engage one of said members, and means for forcing the block along the guideway into said position, said block being adapted to bodily retract, and to simultaneously oscillate away from the engaged member.

1,751,810. GRENADE SUPPORT FOR FIRE EXTINGUISHERS. HENRY MILTON GRILLS, Toronto, Ontario, Canada. Filed June 11, 1928. Serial No. 284,414. 4 Claims. (Cl. 169—26.)



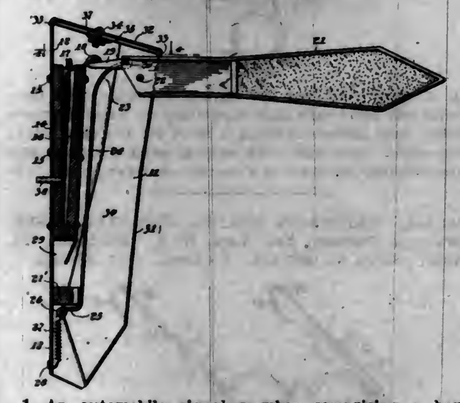
1. A grenade support comprising a flat hanger plate for attachment to a supporting structure, a bracket contacting part of the hanger plate, a fusible fastener entered through the bracket and hanger plate for securing them together under normal temperature conditions and permitting them to separate when the temperature exceeds a predetermined degree, and an infusible grenade holder connected to the bracket for embracing the grenade and supporting it from below.

1,751,811. SPLICING MOLD. RUSSELL B. GUILBAULT, Culver City, Calif. Filed June 2, 1928. Serial No. 282,316. 2 Claims. (Cl. 22—116.)



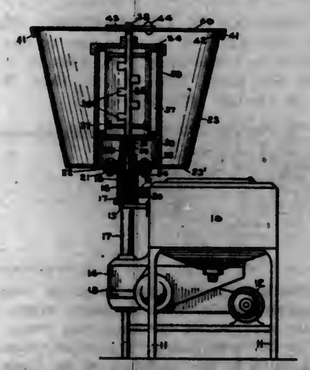
1. A device of the character described including, a tubular mold divided longitudinally into two sections having inner walls substantially parallel to its axis and having end portions of reduced diameter, and a pair of pivotally connected levers, each lever having a jaw carrying a mold section.

1,751,812. AUTOMOBILE SIGNAL. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor of one-half to Harry Goldstine, Chicago, Ill. Filed Apr. 19, 1929. Serial No. 356,368. 8 Claims. (Cl. 116—89.)



1. An automobile signal member comprising a housing, the outer side of said housing being open; a signal arm pivotally mounted in the upper portion of said housing to swing upwardly through the open side of the same; a bellows in said housing; a link connecting the movable side of said bellows with said arm; a spring arranged to hold said signal arm both in said housing and in extended position; and means for operating said bellows.

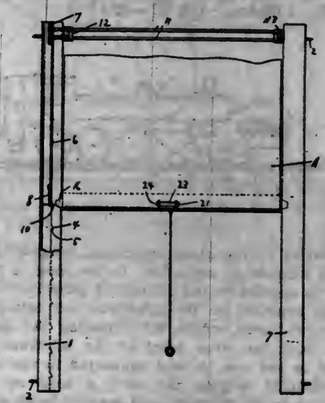
1,751,813. POWER-OPERATED ICE-CREAM FREEZER. CHAUNCEY A. HAGER, Jr., Ord, Nebr. Filed Sept. 18, 1929. Serial No. 393,409. 3 Claims. (Cl. 259—53.)



1. A power operated ice cream freezer comprising an external container for ice, a sleeve projecting downwardly

from the bottom of said container and having a flange secured to the bottom of the container, a cream receptacle rotatably mounted within said container, a tubular housing below said container enveloped by said sleeve, a drive shaft within said housing spaced therefrom, a drive mechanism connected to said drive shaft, means between said drive mechanism and the sleeve for holding the sleeve and ice receptacle against rotation, and a rotary coupling member between said drive shaft and cream receptacle having a part supported on said housing and in turn supporting said flange and sleeve upon the housing.

1,751,814. ADJUSTABLE SHADE HOLDER AND GUIDE. JOSEPH M. HAUSE, Tulsa, Okla. Filed June 14, 1928. Serial No. 285,837. 3 Claims. (Cl. 156—27.)



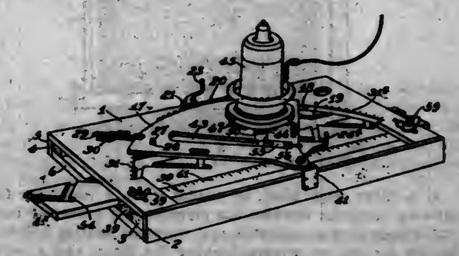
1. In a guide for window shades comprising a pair of slotted uprights, said uprights being secured to the opposing vertical portions of the usual window frame, a shade roll carrier slidable between said guide members, a pull bar having its ends engaged within the slots of the uprights and being secured to the free end of the usual shade strip, means on the carrier complemental to the upright whereby the carrier may be adjusted vertically between the uprights, and means on the pull bar for releasing said adjusting means.

1,751,815. SELECTOR. ROBERT HELMERT, Berlin-Lichterfelde, and BENNO JOHANNESSON, Berlin-Tempelhof, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Aug. 29, 1928, Serial No. 302,715, and in Germany Sept. 6, 1927. 9 Claims. (Cl. 179—27.5.)



1. In a selector for automatic telephone and remote control systems, the combination with sets of field brushes and their contact banks, of a main brush selector carrying said field brushes, and an auxiliary selector the contact bank of which is rigidly connected to and movable with the field brushes and main brush selector.

1,751,816. ROUTING MACHINE. SAMUEL HUNTER, Bellevue, Pa. Filed Mar. 5, 1929. Serial No. 344,175. 7 Claims. (Cl. 144—144.5.)



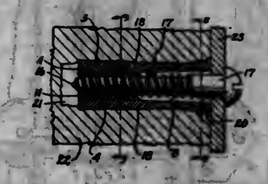
1. A stair routing device comprising a framework, a face plate thereon cut away to provide an opening bounded on one side by an arc of a circle, a segmental templet above the face plate pivoted adjacent the center of said arc and overlapping the curved edge of said opening, said templet being provided with guide slots, clamping means for holding the templet against the top of the face plate, a support for the stringer to be grooved extending beneath the face plate and templet, a spacing or filler plate beneath the templet, also of segmental shape and pivoted concentric with the templet and provide with slots registering with those of the templet, and clamping means supported by the framework beneath the stringer and adapted to press it tightly against the spacing plate.

1,751,817. RUBBER DERIVATIVE AND METHOD OF MAKING SAME. WEBSTER N. JONES and HERBERT A. WINKELMANN, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 28, 1925. Serial No. 26,520. 18 Claims. (Cl. 260—1.)

1. The method of producing a composition of matter which comprises incorporating into rubber a halide of an amphoteric metal in which the halogen has an atomic weight of 35.46 or greater, and applying heat to the mix sufficiently to cause a pronounced exothermal temperature rise therein.

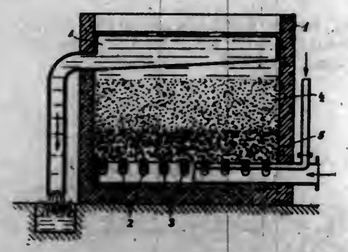
10. A composition of matter comprising the reaction product of undissolved rubber and a halide of an amphoteric metal in which the halogen has an atomic weight of 35.46 or greater.

1,751,818. BOLT ANCHOR. JOHN KARITZKY, Garwood, N. J., assignor to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Filed Sept. 28, 1928. Serial No. 308,929. 2 Claims. (Cl. 85—2.4.)



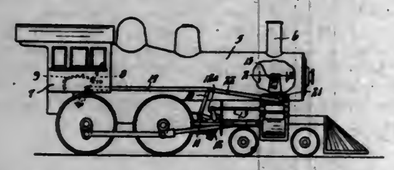
2. A new article of manufacture comprising a ductile anchor provided with an axial bore and primary interior longitudinally extending expanding means, and secondary interior longitudinally extending expanding means of shorter length than the primary expanding means said secondary means being mounted near the inner end of the anchor, and alternating with the primary expanding means.

1,751,819. FILTER. RICHARD KNIESEL, Berlin, Germany, assignor to Bamag-Meguin A.-G., Berlin, Germany, a Corporation of Germany. Filed June 22, 1928, Serial No. 287,546, and in Germany Feb. 20, 1928. 2 Claims. (Cl. 210—130.)



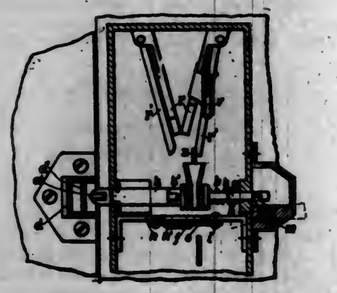
1. A filter comprising, in combination, a container for filtering material, distributing pipes in said container having orifices each constituted as a water-jet suction injector for air for use in reverse flushing the filter, and a main connected with said pipes.

1,751,820. LOCOMOTIVE NOZZLE RESTRICTOR. JALMER KNUDSON, Minneapolis, Minn. Filed May 23, 1927. Serial No. 193,544. 2 Claims. (Cl. 230—100.)



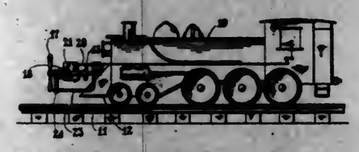
1. In a locomotive structure, an exhaust nozzle, a circular plate disposed at the upper portion of said nozzle, a rod passing centrally across said plate and secured thereto, being journaled in the sides of said nozzle, gear means at the outer side of said nozzle for oscillating said member, and means connected to said last mentioned means and extending to the cab of the locomotive, for operating said gear means, whereby said member may be disposed in a plane substantially at right angles to the axis of said nozzle or in a substantially vertical plane for regulating the flow of said gas through said nozzle.

1,751,821. LOCKING DEVICE FOR CLOSET AND LAVATORY DOORS. ROBERT OSKAR KRASSELT, Leipzig, Germany. Filed Apr. 2, 1929, Serial No. 352,040, and in Germany June 21, 1928. 10 Claims. (Cl. 194—78.)



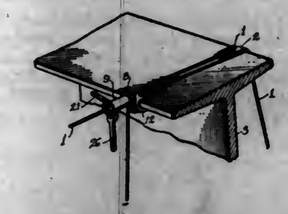
1. A coin controlled locking mechanism for doors for locking the door in a partly open position and upon the insertion of a coin permitting of the door being unlocked and opened and the locking mechanism retained by the inserted coin in position to permit of the door being fully closed and locked when closed, said mechanism comprising normally disconnected automatically projectible main and auxiliary locking bolts on the door, a locking device on the door frame having a keeper, engageable respectively by said bolts, for locking the door in partly open and closed positions, and a part for holding the main bolt retracted when the door is closed, coin holding and releasing means for coupling the main bolt with the auxiliary bolt, and means for shifting the auxiliary locking bolt to retract the main locking bolt on a coupling connection being effected by a coin.

1,751,822. SNOWPLOW FOR ENGINES. LUDWIK KUDZIA, Jaraczew, Poland. Filed June 21, 1928. Serial No. 287,065. 3 Claims. (Cl. 37—22.)



1. A device of the class described, comprising a base, standards adjustably connected to the base, a sub-frame pivotally connected to the standards, propellers and driving means mounted on the sub-frame, an arm projecting from the sub-frame, means for adjusting the distance of the arm from the pivot point of the sub-frame, linkage connected to the arm, a cord connected to the linkage, a bracket slidably holding the cord, a head on the cord resting against the bracket, said bracket being adjustably mounted, and a U-shaped bracket positioned above said bracket and also adjustably mounted, the head on the cord being liftable to engage the U-shaped bracket so to raise the sub-frame.

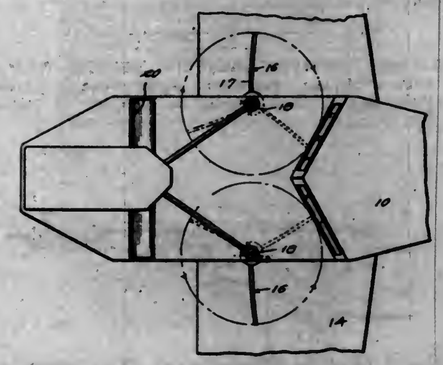
1,751,823. ADJUSTING TOOL FOR FORM TIES. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 28, 1928. Serial No. 273,671. 2 Claims. (Cl. 254—29.)



1. A tool for adjusting a form tie relative to its clamp, comprising a jaw including a bearing part having an opening therein for receiving the tie, a clip formed on said bearing part and offset from said opening, said clip having a pocket for receiving one edge of the clamp, and a jack swiveled on said bearing part and having means adapted to grip the tie for pulling it relative to said jaw.

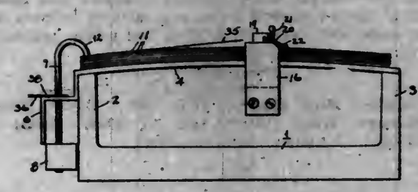
1,751,824. PROPELLING MEANS FOR AIRSHIPS. FRANK G. LANDWEHR, Detroit, Mich. Filed Aug. 10, 1929. Serial No. 384,892. 8 Claims. (Cl. 244—18.)

1. An airship including a fuselage, wings supporting the fuselage, rotatable propellers mounted upon vertical axes on each side of the fuselage, the fuselage being open to accommodate said propellers, a motor, and means for driving the propellers from the motor, the forward end of the fuselage being upwardly and rearwardly curved to



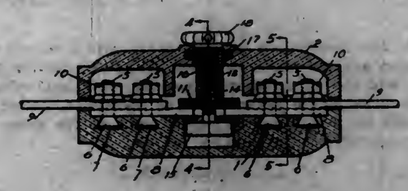
receive the impact of air drawn into the interior of the fuselage by said propellers and forced forward therein, the fuselage above the forward end having an opening through which the air is discharged.

1,751,825. TICKET HOLDER. MURDOCK MACDONALD, Cleveland, Ohio. Filed July 27, 1927. Serial No. 208,732. 6 Claims. (Cl. 129—1.)



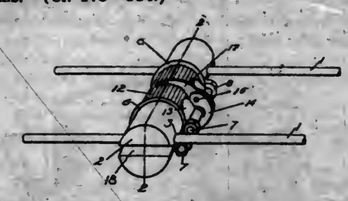
1. In a ticket holder, the combination of an open rectangular frame, means for removably retaining a series of tickets on the top of said frame, and a second open rectangular member embracing said tickets and the top of said frame, said second member being movable along said tickets and serving as an edge against which the uppermost ticket may be severed.

1,751,826. SWITCH. JOHN R. MARSHALL, McKean, Pa. Filed Sept. 10, 1927. Serial No. 218,673. 6 Claims. (Cl. 200—158.)



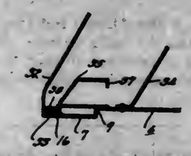
1. In a switch, the combination of a base; a cover secured to the base; wire clamps on the base comprising connector bars, said clamps being adapted to secure the ends of conductors to physically connect said conductors and adapt the same to sustain opposing endwise strain; a bridge piece; and means moving the bridge piece into and out of contact with the bars.

1,751,827. INSULATOR. JOHN R. MARSHALL, McKean, Pa. Filed Sept. 10, 1927. Serial No. 218,674. 8 Claims. (Cl. 173—314.)



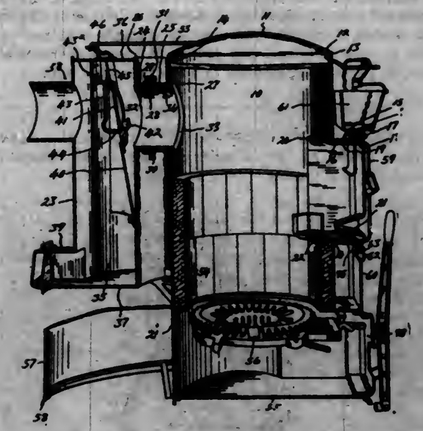
1. In an insulator, the combination of two insulator blocks, each formed in halves with opposing grooves forming wire-receiving perforations; and means securing the halves and blocks together, said means permitting the adjustment of the blocks to vary the relative directions of the perforations.

1,751,828. VEHICLE BODY CONSTRUCTION. WILLIAM MARSHALL, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed May 11, 1925. Serial No. 29,602. 11 Claims. (Cl. 296—28.)



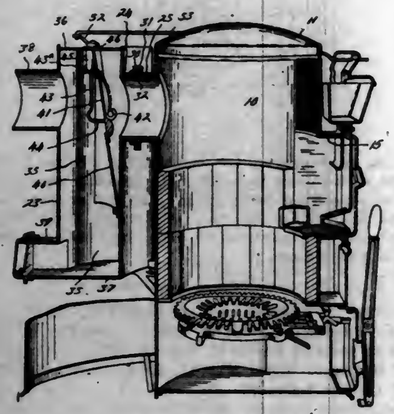
9. In a front end construction for vehicle bodies, the combination with a pillar having an inner section, of an instrument board and cowl secured upon opposite sides of the inner section adjacent one edge thereof.

1,751,829. FURNACE. RALPH S. MCNANEY, Dowagiac, Mich., assignor to Dowagiac Steel Furnace Company, Dowagiac, Mich., a Corporation of Michigan. Filed Oct. 22, 1928. Serial No. 314,209. 8 Claims. (Cl. 126—99.)



7. In a warm air furnace, a body portion formed of sheet steel and having welded joints and a door frame of substantially heavier section than said sheet steel, said door frame forming a reinforcement for imparting rigidity to said sheet steel structure at the door opening and being composed of a steel casting and a welded joint between said cast steel door frame and sheet steel body.

1,751,830. DAMPER FOR WARM-AIR FURNACES. RALPH S. MCNANEY, Dowagiac, Mich., assignor to Dowagiac Steel Furnace Company, Dowagiac, Mich., a Corporation of Michigan. Filed Oct. 22, 1928. Serial No. 314,232. 4 Claims. (Cl. 126—99.)



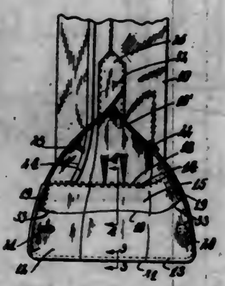
1. In a furnace, a sheet metal radiator, a damper therein, operating means for said damper extending through said radiator and a bearing of cast metal having substantially the same expansion coefficient as said sheet metal and welded thereto.

1,751,831. EXTENSION TABLE. FRANK P. MCNULTY, Los Angeles, Calif. Filed Mar. 21, 1928. Serial No. 263,231. 8 Claims. (Cl. 45—112.)



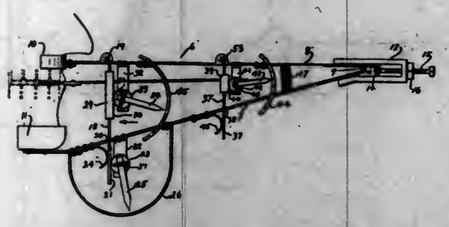
1. A table construction including slidable end sections, a vertically movable central leaf, operating means for moving the leaf vertically, including an actuating member, and a control for the operating means including a manually operable control part and a flange on the actuating member having a notch to receive the control part for operation in one direction and having a recess to receive the control part for operation in the other direction.

1,751,832. SHIRT CUFF SLEEVE. ABRAHAM MENKIN, New York, N. Y. Filed Oct. 25, 1928. Serial No. 314,857. 2 Claims. (Cl. 2—123.)



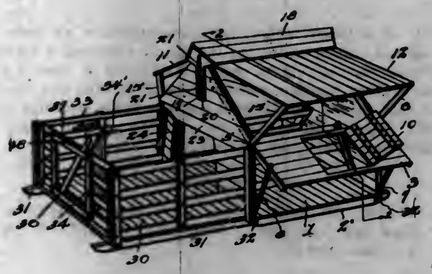
1. A sleeve for clothing, comprising material formed in tubular shape and having a slot connecting with one end, panels formed adjacent the slot by folding and sewing the said material, a cuff with a transverse pleat held in formation by stitches arranged for being broken open, and said cuff being attached on the said material, longitudinal pleats formed in the material and starting at the cuff, and a means for securing the cuff and material adjacent the slot together.

1,751,833. DENTIST'S MEASURING DEVICE. WILLIAM PURKIS MILLAR, Saskatoon, Saskatchewan, Canada. Filed Mar. 8, 1928. Serial No. 260,159. 5 Claims. (Cl. 33—174.)



1. In a device of the class described, in combination, a frame comprising two divergent branches hingedly connected at their convergent ends, jaw portions carried at the free ends of said branches, a bar hingedly connected at one end to one branch, the other branch having an orifice receiving the free end of the bar, a rack on said bar, a scale carried by said last mentioned branch, a bracket also carried by said branch, a pinion mounted upon said bracket and operatively engaging said rack, a pointer carried by said pinion and adapted to move over said scale, and means for locking said pinion against rotation.

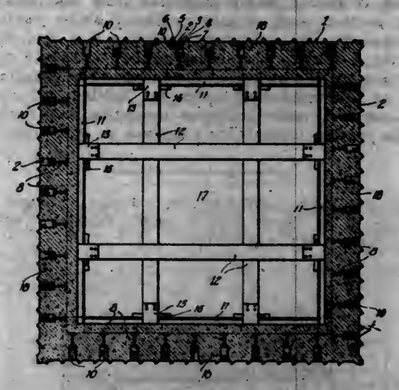
1,751,834. HOG HOUSE AND PEN. OSCAR MILLER, Spokane, Wash. Filed Apr. 30, 1928. Serial No. 274,005. 2 Claims. (Cl. 119—16.)



1. The combination in a hog-house with a hinged roof section adapted to swing upwardly, and means for holding said section in adjusted position, of a hood adapted to be lifted by the upward swing of the section, slotted end boards for said hood, and guide pins on the house for co-action with said slotted end boards.

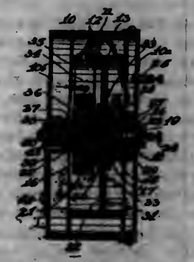
1,751,835. COFFERDAM AND METHOD OF CONSTRUCTION. WILLIAM S. MONROE, Chicago, and JOHN C. SANDERSON, Evanston, Ill., assignors to Sargent & Lundy, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed Oct. 27, 1927. Serial No. 229,059. 2 Claims. (Cl. 61—84.)

1. In a coffer-dam, an outer sheet pile structure, inner brace members driven adjacent the pile structure, spacing means confined between the brace members and the pile structure, and an inner reinforcing wall enclosing



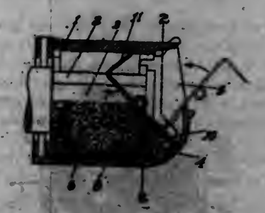
and connecting the brace members, said wall including as elements thereof said spacing means confined between the brace members and the pile structure.

1,751,836. REEL FOR ELECTRIC CONDUCTORS. ALBERT E. F. MOONE, Chicago, Ill. Filed Oct. 28, 1924. Serial No. 746,293. 12 Claims. (Cl. 200—153.)



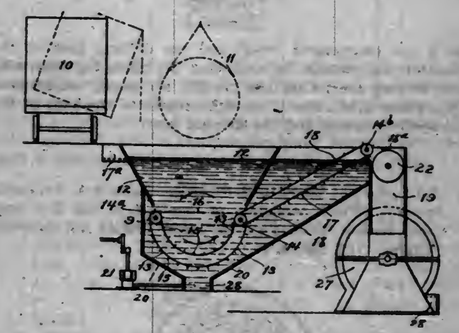
1. In a reel for electric conductors, the combination of a support, a hollow shaft mounted for rotary movement on said support, a reel carried by said shaft, a fixed threaded member carried by said support, a second threaded member rotary with and movable longitudinally of said shaft and engaging said fixed member, and an electric contact carried by said shaft to control the circuit through conductors on said reel by movement of said second member relatively to said shaft.

1,751,837. PACKING RETAINER. LYMAN P. MOORE, Chico, Calif. Filed June 21, 1928. Serial No. 287,062. 1 Claim. (Cl. 308—89.)



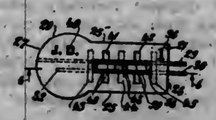
A packing retainer for a journal box, said box having a bearing member against which the upper portion of the journal bears, said journal and bearing being spaced from the side walls of the box, and packing partially filling the box from the front thereof and extending into the space between the journal and box; said retainer comprising side arms to extend upwardly and inwardly of said space and adapted to bear against the upper forward surface of the packing therein, extensions on the inner ends of said arms projecting upwardly thereof to engage the roof of the box in said space, and a horizontal member connecting the opposite ends of the arms to bear against the packing in front of the journal and to engage the front wall of the box.

1,751,838. APPARATUS FOR PREPARING CANE STALKS. WILLIAM HENRY MORGAN, Sr., Alliance, Ohio, assignor, by mesne assignments, to The Morgan Hurrycane Company, New York, N. Y., a Corporation of Florida. Filed Aug. 19, 1925. Serial No. 51,092. 8 Claims. (Cl. 146—194.)



1. An apparatus for preparing sugar cane stalks for the extraction of the juice therefrom, comprising in combination a tank for containing a cleansing liquid, a loop-shaped conveyor located in the tank and arranged to extend partially about a bundle or mass of stalks deposited therein for imparting a rotary or rumbling movement to said bundle or mass of stalks, a hopper having its side walls arranged to direct the stalks between the side portions of the loop shaped conveyor, and means arranged to receive the stalks from said conveyor for removing the stalks from the tank after they have been acted upon by said conveyor.

1,751,839. SEAL. SIGMUND J. MOSKOVITS, Bayonne, N. J. Filed Feb. 26, 1927. Serial No. 171,272. 1 Claim. (Cl. 292—308.)

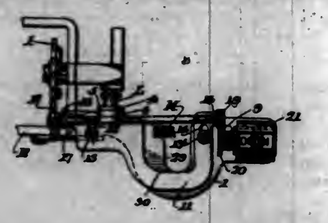


In combination a seal having a flat top face and a flat bottom face, said faces parallel to each other and a shackle having a pair of members extending into the seal, each of the members of the shackle deformed to provide a zigzag portion within the seal, each zigzag portion being in part parallel to the faces of the seal and in part at right angles thereto, said seal having indentations extending from its opposite faces and spaced from the side and end walls of the seal, said indentations having walls parallel to and between the parts of the zigzag portions that are perpendicular to the faces of the seal.

1,751,840. TYPEWRITING MACHINE. LEWIS C. MYERS, Freeport, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,118. 4 Claims. (Cl. 235—102.)

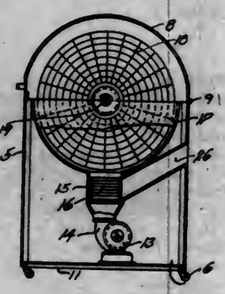
1. In a counter attachment for typewriting machines having a supporting frame, an escapement wheel, a bracket

attached rigidly to the frame, and a counter mounted on the bracket and including a driving gear therefor, the combination of means for transmitting motion from the escapement wheel to the driving gear comprising a plate and driving means mounted on the plate for cooperation



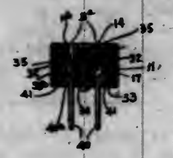
with the escapement wheel and the driving gear of the counter, and means for mounting the plate together with the driving means on the bracket for bodily adjustment in a plane substantially at right angles to the axes of the escapement wheel and the driving gear.

1,751,841. CLOTHES DRIER. CLAUDE A. PICKENS, Spokane, Wash., assignor of one-half to Art Sly, Spokane, Wash. Filed Feb. 23, 1929. Serial No. 342,015. 1 Claim. (Cl. 34—5.)



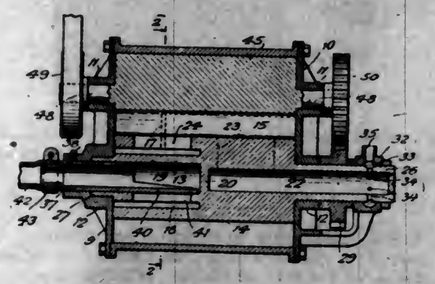
A clothes drier comprising a housing having an open bottom, a hinged top, a rotary basket within top portion of the housing having a door, a motor in the bottom of the housing arranged to rotate the basket, a fan actuated by said motor disposed vertically below the basket, a casing extending from said fan to envelop a portion of the gasket, a heating element within said casing actuated by the current for said motor, a damper for said casing, a conduit extending from said casing through said housing, and a damper for said conduit.

1,751,842. CURRENT TAP FITTING. MORRIS PROPP, New York, N. Y., assignor to The M. Propp Co. Inc., New York, N. Y., a Corporation of New York. Filed July 28, 1925. Serial No. 46,555. 2 Claims. (Cl. 173—334.)



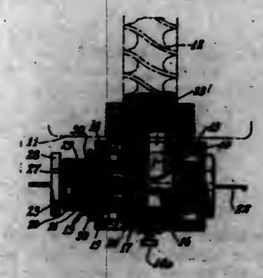
1. An attachment fitting of the character described comprising an insulating body portion having a recess formed in an end thereof, said body having passages leading from said recess therethrough, contact members mounted in each of said passages, each of said contact members having an inturnad foot extending into said recess, conductor blades projecting from said insulating body portion, each of said conductor blades having an inturned foot in engagement with the foot of a contact member, conductor wires engaging the feet of said contact members, and an apertured insulation cover engaging the feet of said conductor blades for holding said contact members and conductor blades in position, said conductor blades passing through the apertures in said cover member.

1,751,843. AIR COMPRESSOR. JOSHUA ROSETT, New York, N. Y. Filed June 5, 1929. Serial No. 368,465. 5 Claims. (Cl. 230—150.)



4. A device of the character described, comprising a housing including casings, main and auxiliary rotors located within said casings and provided respectively with a vane and a vane-receiving pocket through the latter of which said vane is adapted to pass, said rotors being adapted to engage each other and form, with said vane and one of said casings, compression and intake chambers of variable capacities, said main rotor having an inlet passage formed in one end thereof and having an intake port affording communication between said intake passage and said intake chamber and having at its other end an outlet passage and an annular chamber, said outlet passage and annular chamber being separated by a wall having a communicating port therein, said main rotor having an outlet port communicating with said annular chamber at a point substantially diametrically opposite said communicating port and adapted to communicate with said compression chamber, and valve means for closing said outlet passage with respect to said inlet passage at such time as said vane enters said vane-receiving pocket.

1,751,844. EXTRUDING MACHINE. GEORGE H. SCHANZ, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed July 11, 1927. Serial No. 204,714. 5 Claims. (Cl. 18—13.)



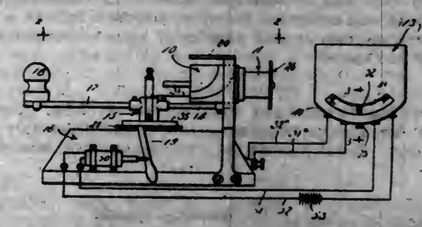
3. An extruding machine comprising an extruding die, means for drawing a flat strip of material therethrough with its flat faces disposed in determinate planes, means for forcing a plastic therethrough to coat the strip, and stock-confining means interposed between the stock-forcing means and the die and formed on opposite sides of the strip's path of movement with symmetrically disposed passages for the stock, the said passages having their longitudinal middle plane substantially in coincidence with a plane medial, parallel and normal to the strip and the stock-confining means being formed with a plurality of overflow apertures symmetrically disposed with relation to the axis of the die.

1,751,845. AUTOMATIC RAILWAY SAFETY SIGNAL. FRANK SMITT, Port Washington, N. Y., assignor of six per cent to Nellie Krupinski, Port Washington, N. Y. Filed Aug. 14, 1929. Serial No. 385,900. 3 Claims. (Cl. 246—294.)



1. A railway switch apparatus comprising slidable elements having movable track members thereto attached and the said slidable elements located at the junctures of a pass-over track and main lines of track which are relatively parallel to each other, means to move the said slidable elements into closed positions simultaneously through the action of contact elements placed in the respective lines of approach of the switch proper, means to lock the said slidable elements in closed positions and means to simultaneously release the locking elements by the operation of rocking levers adjacent thereto and connected to each other by elements forming a parallelogram and adapted to exert the force thereof when acted upon by one of a pair of release elements, which elements are respectively connected to the said rocking levers and are located in the lines of departure from the switch assemblies.

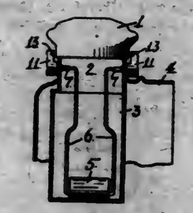
1,751,846. CASTING MACHINE. ALFRED L. WILKES, Los Angeles, Calif. Filed Apr. 30, 1928. Serial No. 273,980. 7 Claims. (Cl. 22—65.)



1. In a casting machine a receptacle for the material to be cast, a mold to receive the material, operating means for causing the material to discharge from the receptacle to the mold, and a control for the operating means whereby it operates upon the material reaching a predetermined temperature, the control including a thermo-couple at the receptacle, an electro-magnetic unit in connection with the operating means and a contact device electrically connected to the thermo-couple and operable to cause energization of the unit.

1,751,847. RADIATOR GAUGE. JOHN J. WILT, Bakersfield, Calif. Filed June 19, 1928. Serial No. 286,530. 1 Claim. (Cl. 116—118.)

In combination with a radiator reservoir having a filling neck, and a cap fitted to sa'd neck, a device for indicating the level of the liquid in said reservoir including a yoke depending within the reservoir, the free ends of the arms of said yoke being bent in opposite directions and journaled respectively in the front and rear walls of the reservoir neck below the cap; a hous'ng shell into which each of said journalled ends of the yoke arms project, said shell

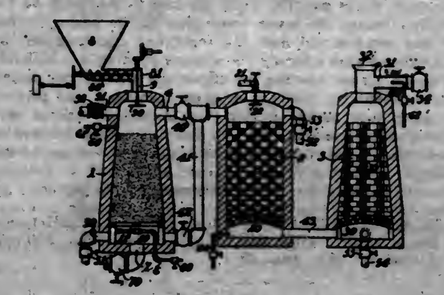


having a sight aperture; a flanged bushing fitted to the reservoir neck and in which the yoke ends are journaled, said bushing clamping the housing shell to the reservoir neck; an indicator carried upon the yoke ends within the housing shell, visible through the sight aperture thereof; and a float within the reservoir, carried by the yoke.

1,751,848. RUBBER COMPOSITION AND METHOD OF PRODUCING THE SAME. HERBERT A. WINKELMANN, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 17, 1924. Serial No. 750,463. 10 Claims. (Cl. 18—53.)

1. The method of improving the aging properties of rubber on vulcanization with sulphur which comprises adding to a rubber mix before vulcanization a blown product of the distillate residues of petroleum capable of producing a blown product having the combined properties of a softening point of substantially 300° F. and a penetration at 122° F. of between 8 and 16, and vulcanizing the resulting mixture with the production of a vulcanized rubber product having improved aging properties.

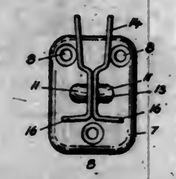
1,751,849. GAS-MAKING PROCESS. DANIEL J. YOUNG, Tacoma, Wash., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash., a Corporation of Washington. Filed June 22, 1922. Serial No. 570,207. 11 Claims. (Cl. 48—208.)



1. An improvement in the usual two cycle process of making carbureted water gas, carried out in a plant comprising a single generator having a bed of solid fuel, a single carburetor and a single superheater, one cycle consisting in air blasting the fuel bed of the generator and storing the resulting heat successively in the carburetor and superheater, a second cycle consisting in making a forward steam run successively through the fuel bed of the generator in an upward direction, then through the carburetor and superheater, and withdrawing the resulting water gas directly from the superheater; the improvement which consists in making a third cycle

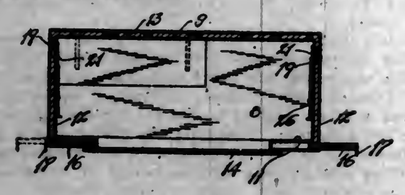
in which steam is passed directly to the top of the fuel bed in the generator and the resulting water gas withdrawn directly from the bottom of the generator for storage or use.

1,751,850. CLOTHESLINE CLAMP OR HOLDER. HENRY C. ZIEBURTZ, Cleveland Heights, Ohio. Filed July 8, 1929. Serial No. 376,625. 1 Claim. (Cl. 24—133.)



A line holder comprising a back plate having a slot and recesses at the rear beside the slot, a clamping member having an ear projecting through the slot, and a pivot pin extending through the ear behind the plate and seated at its ends in said recesses, the plate having tongues at the ends of the slot, projecting behind the plate and pressed inwardly to confine the ear.

1,751,851. COOLER. REGINALD J. BENNETT, Spokane, Wash. Filed Apr. 22, 1929. Serial No. 357,051. 1 Claim. (Cl. 312—101.)



The combination with a window frame of a cooler installed therein, said cooler having an outer and an inner spaced wall for its top, bottom, front, rear and ends, insulator material within said spaced walls, an extension wing for each front end portion of the cooler slidably disposed between the outer and inner front wall and arranged to be extended outwardly therefrom, flanged end portions for said wings adapted to be secured to the sides of the window frame, the lower front edge of the cooler resting on the window sill and the top front edge engaged by the window sash whereby the window opening is completely closed, a screen opening for either end wall of the cooler, a door pivotally mounted at each opening, a rod pivoted to each door having a slot therein, and a pin for said slot whereby the doors may be pivotally moved to open or close said screened openings by slidable movement of the rods.

1,751,852. ELEVATOR. JOHN BERGSTEN, Hermosa Beach, Calif. Filed Feb. 4, 1924. Serial No. 690,347. 4 Claims. (Cl. 294—91.)



1. A casing elevator comprising a body element, a gate element hinged to said body element for movement between open and closed positions with respect thereto, a lug on one of said elements, the other of said elements having a recess to receive and completely surround said lug when said gate element is closed whereby said gate element is held against movement relative to the body element in all directions transversely of said lug, and means to hold said gate element closed.

1,751,853. BATTER FORK. EDWINA BUCK, Glendale, Calif. Filed June 17, 1929. Serial No. 371,571. 4 Claims. (Cl. 259—144.)



1. A batter fork comprising a handled shank having a tined head lying in a plane at an angle to the major portion of said shank, said head having a plurality of spaced flat tines lying in the same plane and extending in a longitudinal direction and two remote tines having a serrated outer edge at one side and a straight inner edge at the other.

1,751,854. RADIO APPARATUS. ROBERT C. DA COSTA, Philadelphia, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 24, 1928. Serial No. 272,385. 6 Claims. (Cl. 175—359.)



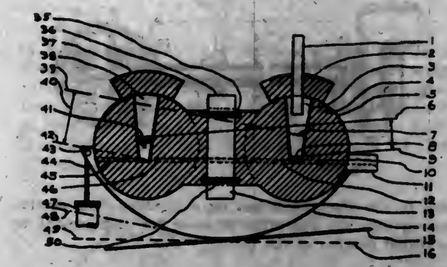
1. An air-core, radio frequency coil comprising a tubular form machined to uniform, predetermined diameter, a plurality of circumferentially spaced apertures at one end of said form and at least one aperture at the other end thereof, and conductor wound on said form between a selected aperture of said plurality of spaced apertures and said one aperture.

1,751,855. FOUNTAIN PEN, LEVER FILLER. EMILE C. FRANZMANN, West Somerville, Mass. Filed July 20, 1928. Serial No. 294,188. 12 Claims. (Cl. 120—46.)



1. A fountain pen having, in combination, a casing, a sack of flexible material adapted to contain liquid and enclosed within said casing, open at one end thereof and closed at the opposite end, a presser located within said casing and arranged to bear against said sack, a lever normally positioned in a slot provided in the wall of said casing, a spring extending longitudinally of said lever adjacent its inner face and fastened adjacent one end thereof to said lever, and an arcuate support for said lever positioned within said casing and projecting between the lever and its spring and contacting with said spring, one end of said lever bearing against said presser, whereby said lever may be rocked to cause said presser to be moved inwardly and compress the sack.

1,751,856. ELECTRIC INDUCTION FURNACE PROCESS. ALBERT E. GREENE, Seattle, Wash. Filed Mar. 25, 1921, Serial No. 455,601. Renewed May 12, 1923. 8 Claims. (Cl. 266—1.5.)



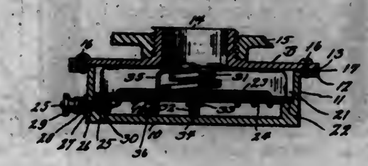
1. The method of treating molten metal by causing it to pass through a constricted area duct closed except on its ends and having its ends opening into adjoining parts of the channel of an induction furnace larger than the ducts and at a part of said channel below the metal level therein and while forcing it through said conduit heating it by passing induced current through the metal therein.

1,751,857. OIL HEATER. CHARLES W. NELSON and ROBERT L. NELSON, Sioux City, Iowa, assignors to Nelson Bros. Mfg. Co., Inc., Sioux City, Iowa. Filed Dec. 26, 1929. Serial No. 416,562. 12 Claims. (Cl. 219—38.)



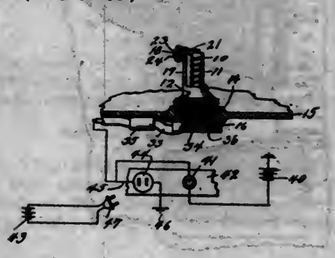
1. In a heater for viscous oils that are non-fluid at temperatures near zero degrees Fahrenheit, an upwardly opening open-mouthed shell adapted to be extended through and secured in the wall of an oil container at a low point thereof, and an electrical heating element in the shell, the space within the shell being entirely unoccupied with the exception of the space occupied by the heating element and the latter being spaced from the wall of the shell at any temperature of use, whereby oil from the container may fill the shell and contact directly with the heating element from all sides, thereby aiding in insulating the element from the shell wall, and being provided with a path for maximum circulation through the shell.

1,751,858. OIL HEATER. ROBERT L. NELSON and CHARLES W. NELSON, Sioux City, Iowa, assignors to Nelson Bros. Mfg. Co., Inc., Sioux City, Iowa. Filed Dec. 9, 1929. Serial No. 412,678. 15 Claims. (Cl. 219—38.)



1. In an oil heater for an oil container having an opening, a receptacle provided with an opening, high and low voltage heating units encased within the receptacle, and means for attaching the receptacle to the outer side of the container so as to form a closure for said container opening with the two openings inter-communicating, whereby oil from the container may fill the receptacle and submerge the heating unit, the low voltage unit being grounded at one end to the receptacle, and the high voltage unit being insulated at both ends from the receptacle.

1,751,859. OIL HEATER FOR CRANK CASES. CHARLES W. NELSON and ROBERT L. NELSON, Sioux City, Iowa, assignors to Nelson Bros. Mfg. Co., Inc., a Corporation of Iowa. Filed Apr. 20, 1929. Serial No. 356,708. 11 Claims. (Cl. 219—38.)



1. In an oil heater for a crank case having a threaded drain opening, a threaded plug receivable in said opening, an exposed heating coil supported by the plug and insulated therefrom except at one end, said end being grounded to the plug, and means insulated from the plug, to connect the other end of the coil to a source of current, said means including a thermostatic switch, adapted to be surrounded by the body of oil, and to open at a predetermined maximum temperature of said oil.

1,751,860. LAMP TESTER. WILLIAM F. HAYES, Providence, R. I. Filed Apr. 27, 1928. Serial No. 273,247. 7 Claims. (Cl. 175—183.)

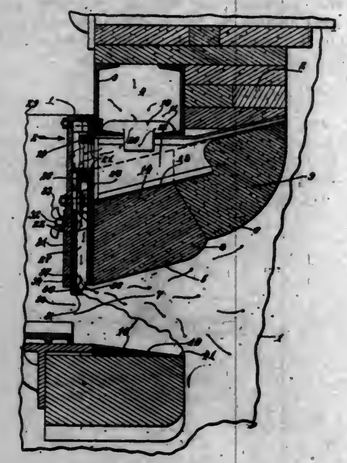


4. A connector device for testing lamps comprising a sectional body, one of the sections thereof having spaced depending ears, contact members mounted in said ears and disposed on both sides thereof, a contact member depending from the body and insulated from the said ear contact members, and means for electrically connecting the said contact members whereby the said ear contact members will be connected in parallel.

1,751,861. FURNACE. CHARLES J. HUBER, Baltimore, Md., assignor of one-half to Flynn and Emrich Company, Baltimore, Md., a Corporation of Maryland. Filed June 2, 1925. Serial No. 34,312. 2 Claims. (Cl. 110—67.)

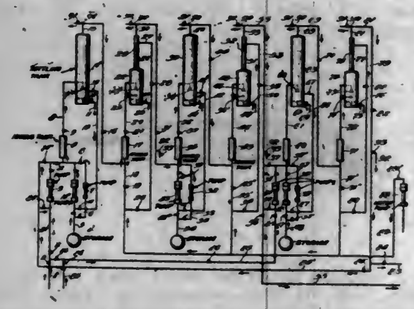
1. In a furnace having a hopper with a hopper opening, an arch extending rearwardly from above the hopper opening, a coking shelf extending rearwardly from beneath the hopper opening, an air passage in the arch, the hopper having having a double rear wall providing an air passage therein connected to the arch passage leading downward to the hopper opening into which it discharges, and an ad-

justing plate to control the size of the hopper opening, with means for securing the same in various positions of



adjustment, said plate having a lip to deflect the air from said passages backward into the combustion space of the furnace.

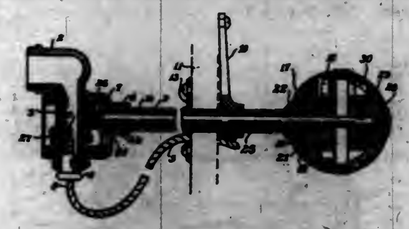
1,751,862. PROCESS AND APPARATUS FOR TREATING AND PURIFYING HYDROCARBON OILS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Nov. 15, 1923, Serial No. 674,807. Renewed July 2, 1928. 5 Claims. (Cl. 196—38.)



1. A process for purifying liquid distillate obtained from the pressure distillation of hydrocarbon oils, consisting in initially introducing a quantity of the distillate and a quantity of plumbite to a mixing chamber, in thence passing the mixed plumbite and distillate to a settling chamber, in then subjecting the distillate successively to a treatment with sulphuric acid and caustic soda and subjecting the distillate to successive water washing treatments following each of said treatments, and in maintaining a superatmospheric pressure on the distillate undergoing treatment.

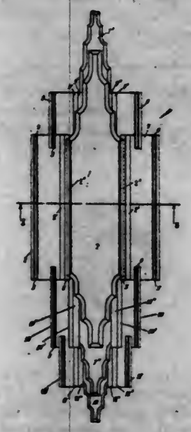
1,751,863. SPOTLAMP FOR AUTOMOBILES AND THE LIKE. ROBERT H. HUMMERT, Dayton, Ohio, assignor to The S. H. Thomson Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Dec. 20, 1926. Serial No. 155,836. 2 Claims. (Cl. 74—39.)

1. In combination with a shaft, of a hollow operating member secured to the outer end of the latter, and having an inset serrated face, a sleeve into which the shaft projects for a turning movement therein, a collar



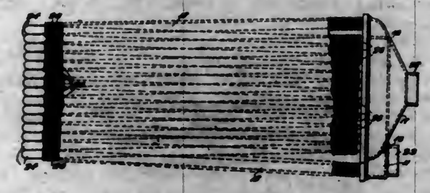
secured to the sleeve and having a serrated face portion projecting into the operating member for engagement by the serrated portion of the latter.

1,751,864. LIGHT FIXTURE HAVING REMOVABLE PANELS. ABRAHAM KRAMER, New York, N. Y. Filed Apr. 4, 1929. Serial No. 352,473. 6 Claims. (Cl. 240—110.)



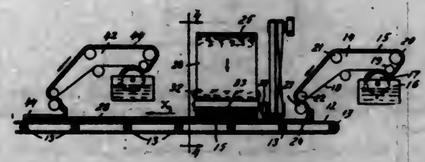
1. A light fixture comprising a plurality of parallel groups of spaced frame members, said frame member groups being disposed about a common axis, and said frame members being provided with panel retaining grooves.

1,751,865. METHOD OF BRAZING HEATING COILS. ALEXANDER THORNTON LEWIS and DONALD E. FRENCH, Merion, Pa., assignors to York Heating and Ventilating Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 9, 1928. Serial No. 260,458. 4 Claims. (Cl. 113—112.)



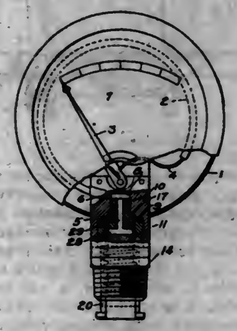
1. The method of securing a tube to a header plate where one article is copper and the other is steel, which consists in locating the tube in a hole in the header, subjecting the copper article to a cooling medium to maintain it at a temperature lower than the fusing point of copper, flowing a bonding material having a fusing point substantially that of copper about the joint between said tube and plate while simultaneously subjecting the two adjacent portions of the two articles to a temperature closely approximating the fusing point of copper.

1,751,866. APPARATUS FOR MAKING FIBROUS MATERIAL. RALPH L. LOOMIS, Boston, Mass., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Original application filed Aug. 5, 1926, Serial No. 127,291. Divided and this application filed May 11, 1929. Serial No. 362,163. 16 Claims. (Cl. 92—39.)



1. In a machine of the character described, means for slitting a moist pulp web and means for laying down overlapping folds of said moist pulp web.

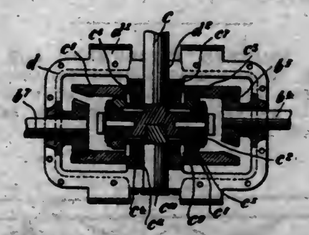
1,751,867. POP GAUGE. CHARLES J. MANUEL, La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Apr. 2, 1929. Serial No. 351,915. 1 Claim. (Cl. 251—8.)



A relief valve for a gauge casing, comprising a two part valve structure slidingly mounted with a reduced part projecting within said casing, a valve seat formed within said casing, an inner regulating member adjustably mounted in said casing, a pressure means positioned between said members, a stop on said inner member for determining the amount of pressure exerted by said pressure means upon said outer member, projecting flanges on said casing and said valve for holding said outer member after same has been retracted and turned and a blow off passage capable of being opened by the retraction of said outer member.

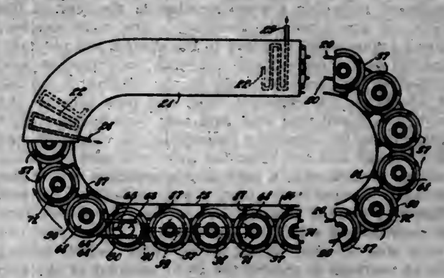
1,751,868. FREE-WHEEL DRIVE. ALFRED F. MASURY, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1929. Serial No. 407,858. 4 Claims. (Cl. 74—99.)

1. A final drive for vehicles comprising driving wheels, a differential, a power shaft journaled in the differential housing and carrying driving planetary pinions, a stub shaft mounted in the housing, spaced bevel gears on opposite sides of the pinions journaled on the respective shafts, spaced skew bevel gears driven by the respective bevel gears and journaled on the respective shafts, shafts



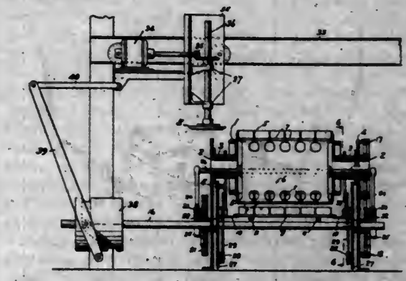
driving the respective wheels and mounted above the axis of the differential, and skew bevel pinions on the last named shafts engaging the respective skew bevel gears.

1,751,869. VULCANIZING APPARATUS. ROBERT MAYNE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1928. Serial No. 328,016. 3 Claims. (Cl. 18—4.)



1. In apparatus of the character described, the combination of a sectional mold comprising mating mold sections, means within the mold sections for producing magnetic flux therein, means for feeding the mold in a course which extends through a vulcanizer, and means for energizing the flux-producing means at a determinate region of said course.

1,751,870. BRICK MACHINE. ROY I. MCCARTY, Barree, Pa. Filed Sept. 11, 1928. Serial No. 305,174. 4 Claims. (Cl. 25—81.)



1. A brick machine including in combination a generally rectangular hollow mold carrier having mold frames on opposite faces thereof, hollow trunnions by means of which the mold carrier is mounted for rotation about a horizontal axis, a plunger head arranged within the carrier and having mold bottoms for the frames, means for rotating the mold carrier with a dwell in its movement when in vertical position, pintles arranged in the hollow trunnion and connected with the plunger head, and cam mechanism

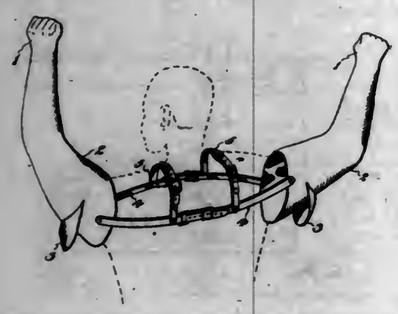
operative on the pintles for preventing relative movement of the plunger head and carrier while rotating and for causing relative movement of these elements when held against rotation.

1,751,871. WHEELED ATTACHMENT FOR MOTOR TRUCKS. WILLIAM R. MCCULLA, Sidney, Ohio, assignor to Plus-Two Wheels, Inc., Sidney, Ohio, a Corporation of Ohio. Filed Feb. 20, 1929. Serial No. 341,462. 1 Claim. (Cl. 280—106.5.)



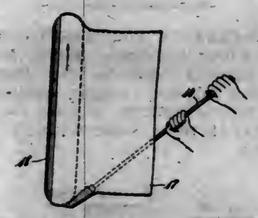
In combination with a vehicle; wherein the vehicle comprises a chassis, a pair of rear springs attached to the chassis, a rear axle assembly on the rear springs; of an attachment including a cross member in the rear of the chassis, an arm pivotally mounted to the cross member, a spring transversely disposed to the chassis and pivotally connected at its center with the arm, an extension axle mounted on the opposite ends of the transverse spring, and wheels on the extension axle, and rods between the axle assembly and rear axle, said rods including universal joints, means for pivotally connecting the rods with the axle assembly and the extension axle, said arm including a casting formed with a pair of side members converging rearwardly toward each other, a web connecting the side members, a pair of bearings one at the rear end of each side member and a pair of bearings one at the front end of each side member, blocks in the cross member having pairs of bearings to receive the front bearings of the arm casting, pins for pivotally engaging the last mentioned bearings, a spring seat on the transverse seat having a bearing between the rear bearings of the arm casting and a pin pivoting said last mentioned bearings together.

1,751,872. GLOVE. WILLIAM M. MEDAUGH, Ohio City, Ohio. Filed Jan. 24, 1928. Serial No. 249,116. 2 Claims. (Cl. 2—159.)



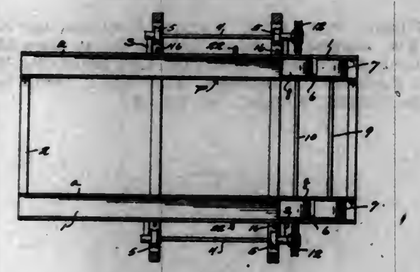
1. A glove having a sleeve extension of shoulder length, and a water shedding shield adjacent the shoulder end of the sleeve disposed circumferentially of the sleeve across the inner portion thereof and normally extending towards the shoulder end of the sleeve in diverging relation thereto and adapted to fold against the body when the gloved arm hangs and to spring outward when the arm is extended.

1,751,873. TIRE-BUILDING TOOL. CHRISTIAN J. MERZ, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 1, 1929. Serial No. 336,790. 7 Claims. (Cl. 154—9.)



1. A tire-building tool comprising a hand bar and a sectional, tapered roller journaled on one end portion thereof.

1,751,874. AUTOMOBILE HANDLING APPARATUS. HORATIO S. MOORE, Bellefonte, Pa. Filed June 19, 1928. Serial No. 286,592. 2 Claims. (Cl. 254—144.)

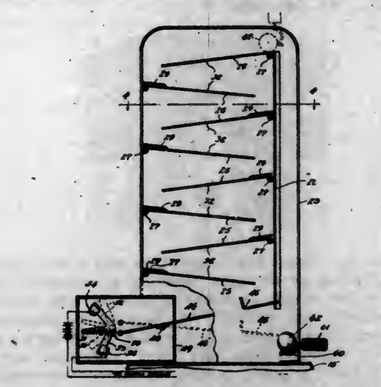


1. An automobile handling apparatus comprising a platform having a pair of spaced trackways, means for holding said trackways in spaced relation to each other and to a floor or the ground, a pair of transverse shafts rotatably mounted beneath said trackways and spaced inwardly from one end thereof, said shafts being mounted in spaced relation to each other, a plurality of drums rotatably mounted on said shafts and within said trackways, a gear secured to each of the opposite ends of one of said transverse shafts, a pair of parallel shafts rotatably mounted outwardly of said trackways, a gear secured to one end of said shafts and adapted to engage said first gear whereby to turn said parallel shafts cooperatively with said transverse shafts, a plurality of posts mounted on the floor or ground, winding means secured to said parallel shafts and engaging guide means on said posts whereby to raise the platform upon the turning of the drums, and holding means for holding the platform in raised position.

1,751,875. AUTOMATICALLY-TIMED ELECTRICAL DEVICE. JENTJE MULDER, Detroit, Mich. Filed May 26, 1928. Serial No. 280,787. 5 Claims. (Cl. 200—38.)

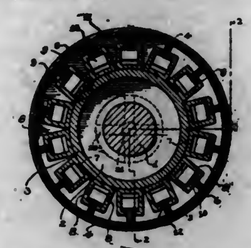
1. A timing device for electrical appliances, comprising an overthrow switch adapted to be actuated by the movement of a lever in a vertical plane, a platform on said lever, and means for causing a weight to drop on said platform and thereby actuate said lever and cause the latter to actuate said switch, said means comprising a vertical series of inclined shelves above said platform, each shelf inclined toward the one next below with the

lowermost inclined toward said platform, and a spherical weight adapted to be placed upon the topmost shelf and to



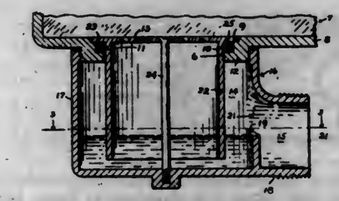
roll over said shelves in series and drop upon the said platform whereby to actuate the said lever and thereby said switch.

1,751,876. IRONING ROLL. GEORGE A. MUMFORD, Rochester, N. Y. Filed June 13, 1928. Serial No. 285,151. 7 Claims. (Cl. 68—9.)



1. An ironing surface comprising a rotary support, a plurality of surface forming members, resilient means acting upon said surface forming members to hold them in normal positions, and guiding means between the rotary support and the surface forming members preventing sidewise movement of the surface forming members in the direction of turning of the rotary member.

1,751,877. DRAIN TRAP. WILLIAM B. NANCE, San Leandro, Calif. Filed May 10, 1929. Serial No. 362,071. 1 Claim. (Cl. 182—20.)



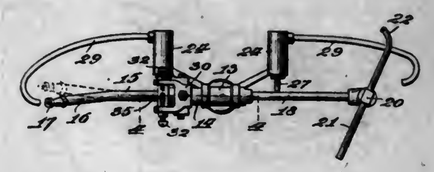
In a sink, a drain aperture, a seat for a strainer plate at said aperture, a strainer plate engaging said seat, a tubular discharge member depending from the aperture, a member mounted beneath the sink and providing a chamber enclosing said first member and having a side outlet above the bottom thereof, a sealing member for sealing said plate in its seat and to exteriorly seal said tubular member in said aperture, and tension means cooperative between the strainer plate and second member to releasably secure the said plate and member in their operative positions with respect to the aperture.

1,751,878. RACK. BENJAMIN H. NEWCOMER, Charleston, W. Va. Filed June 8, 1929. Serial No. 369,391. 1 Claim. (Cl. 211—51.)



A rack structure of the class described comprising a base, a pair of front bars rising perpendicularly from the base, a pair of rear bars rising from the base, the opposed sides of the pair of bars converging upwardly, a plurality of superposed shelves mounted between the bars the widths of which are progressively reduced from the lowermost to the uppermost thereof, spring pressed rods across the shelves and extending beyond the marginal edges thereof and retractile springs secured, at one end, to the opposite end portions of the rods and having their opposite end anchored to the subjacent shelf.

1,751,879. WATER SPRINKLER. FINGAL C. OAR, Glendale, Calif. Filed Apr. 1, 1926. Serial No. 98,964. 3 Claims. (Cl. 299—71.)

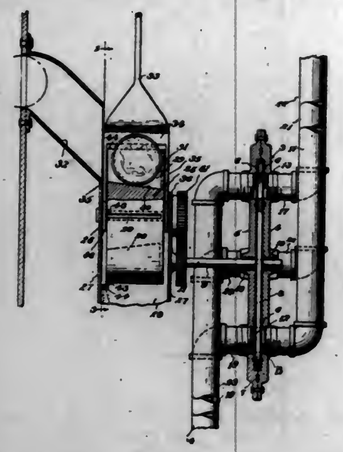


1. In a sprinkler, a supply pipe, a tubular arm mounted to rotate on a vertical axis on said supply pipe and having communication with the latter, an angularly disposed jet nozzle carried by said tubular arm and mounted for limited rotary movement thereon, a pair of cylinders adjustably mounted on the supply pipe, pistons arranged for operation within said cylinders, piston rods projecting from said pistons, an arm depending from the rotatably mounted tubular arm in position to engage the piston rods on oscillation of said arm thru the arc spacing said rods, tubes leading from said cylinders to a point in the path of travel of the jet nozzle on said vertical axis, said tubes having their open outer ends positioned to receive water discharged from said nozzle at the respective ends of its horizontal path of movement, whereby to actuate the respective piston rods in one direction and thereby cause rotation of said jet nozzle about its means of support, and means to return each said piston to its original position.

1,751,880. GASOLINE-DISPENSING PUMP. WALDO F. PEREZ, Jacksonville, Fla. Filed Aug. 16, 1928. Serial No. 300,064. 2 Claims. (Cl. 194—84.)

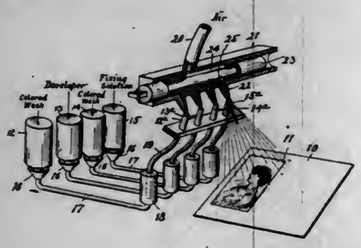
1. A coin controlled mechanism comprising a chute, a shaft journaled in the chute, a drum fixed to the shaft

and having radial coin receiving pockets formed therein, an actuating lever having an abutment, spaced arms depending from the abutment for spanning the drum, said



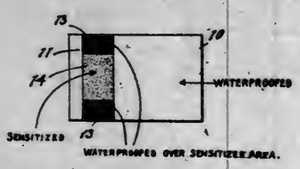
arms being pivotally connected to the shaft, and means for depositing a coin into a pocket of the drum for engagement with the abutment of the lever.

1,751,881. PROCESS FOR MAKING COLORED PHOTOGRAPHS. GEORGE N. PIFER, Cleveland, Ohio, assignor, by mesne assignments, to American Phototure Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,681. 7 Claims. (Cl. 95—5.)



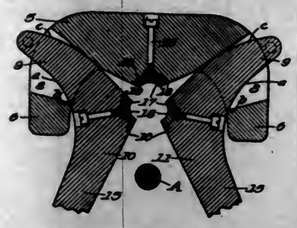
1. The process of producing a colored photograph which comprises developing an exposed surface and utilizing a colored washing solution in the developing process.

1,751,882. PHOTOGRAPHIC CARD AND METHOD OF PRODUCING THE SAME. GEORGE N. PIFER, Cleveland, Ohio, assignor to American Phototure Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1927. Serial No. 234,120. 6 Claims. (Cl. 95—8.)



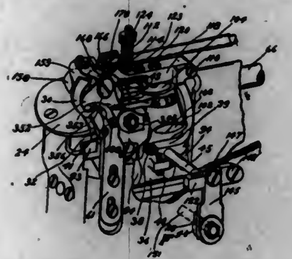
1. A method of producing a photographic card, comprising applying a strip of emulsion entirely across the card from one edge to the other, and applying a waterproof coating to the ends of said strip.

1,751,883. ROPE CLAMP. HARRY P. REIBER, Elyria, Ohio. Filed Sept. 21, 1928. Serial No. 307,426. 6 Claims. (Cl. 24—135.)



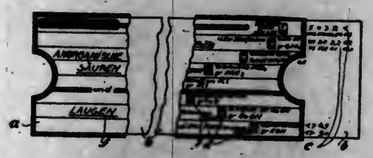
1. In a rope clamp, the combination with a body having a rope-gripping portion and openings on opposite sides thereof, a jaw loosely mounted in each opening for sliding movement and adapted for fulcruming engagement with a wall therein, each jaw having a rope-gripping portion, the movement of the jaws toward each other serving to cause each gripping portion to move substantially radially toward the center of the rope.

1,751,884. FOLDING MACHINE. ANDREW R. RIDDERSTROM, Nahant, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 13, 1923 Serial No. 668,345. 22 Claims. (Cl. 12—55.)



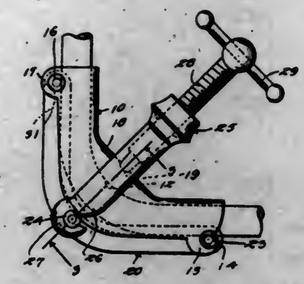
1. A folding machine having, in combination, means for feeding sheet material, a plow movable back and forth substantially in the line of feed for initiating a fold in the margin of the material, and means for varying the feed of the material without affecting the operation of the plow.

1,751,885. RECORD CARD AND COVER THEREFOR. FRANZ RIEHLE, Stuttgart, Germany. Filed Dec. 22, 1926, Serial No. 156,327, and in Germany Dec. 28, 1925. 1 Claim. (Cl. 40—65.)



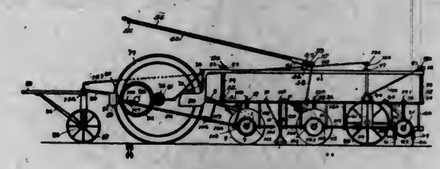
A device of the character described comprising a cover having two open edges and composed of front and back portions secured together at two other edges, said cover being composed of a transparent material having a coating thereon leaving parts thereof uncoated forming transparent portions; and a card slidable in said cover through the open edges thereof and having indicia thereon visible through the transparent portions of the cover, said front and back portions also having indicia thereon, whereby by slidably adjusting the card in the cover the card is positioned to indicate the desired indicia thereon through the transparent portions in cooperation with the indicia on the cover.

1,751,886. APPARATUS FOR BENDING SMALL PIPES. EDGAR A. ROCK, deceased, Norfolk, Nebr., by Caroline F. Rock, administratrix, Norfolk, Nebr. Filed Mar. 30, 1929. Serial No. 351,271. 6 Claims. (Cl. 81—15.)



1. In a bending apparatus for use with small pipes, an angular member having a trough formed in its cambered face, a similarly angled bending bar having a pipe receiving groove formed in its inner face, coacting means at corresponding ends of the angular member and bending bar for detachably pivotally connecting the same to one another, the bending bar being movable into the trough of the bar, and means detachably engageable with one of said elements and having an adjustable pressure bar for engagement with the other of said elements for moving the free end of the bending bar toward and into the trough of said member.

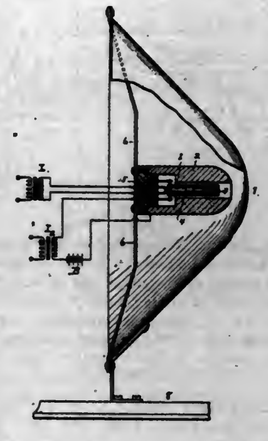
1,751,887. SOIL-WORKING COMBINE. CLARENCE F. ROSE, near Modoc, Ind. Filed Apr. 5, 1928. Serial No. 267,699. 6 Claims. (Cl. 97—40.)



1. A soil working machine comprising an upper frame including, an extension projecting forward from said main portion and located on a level lower than the main portion, rear guide wheels supporting the rear portion of said frame, drive wheels supporting the forward portion of said frame, a truck attached to the forward end of said frame, front guide wheels carrying said truck, means for automatically turning said rear guide wheels by the turning of the front guide wheels and in directions opposite thereto, a lower frame resiliently suspended below the main portion of the upper frame, a plurality of soil working tools carried by the lower frame, and means for operating said tools with power generated by the rotation of said drive wheels traveling on the ground.

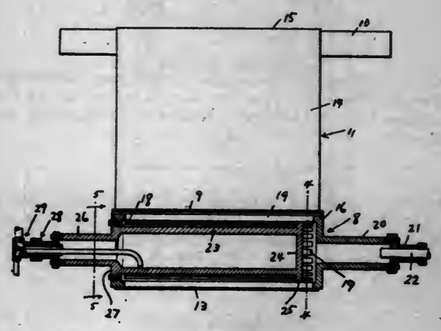
1,751,888. SOUND-EMITTING DEVICE. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Patents Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 29, 1929. Serial No. 359,163. 9 Claims. (Cl. 179—113.)

1. A sound emitting device comprising a gas-filled container having a sound opening, an anode, an indirectly heated cathode having an equipotential operating surface, means for discharging an ionizing current through the gas, means for producing acoustic vibrations of the gas by



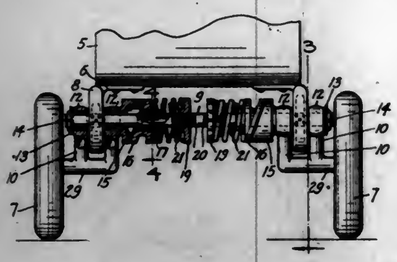
varying the ionization of the gas responsively to audio signal currents, and, means for directing the acoustic vibrations from the sound opening, away from the device.

1,751,889. APPARATUS FOR IMPREGNATING ROOFING FELT. CHARLES ROY SCULLEY, East St. Louis, Ill. Filed Jan. 18, 1929. Serial No. 333,828. 2 Claims. (Cl. 91—46.)



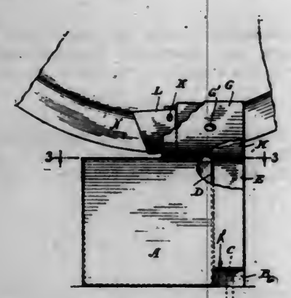
1. In a roofing felt saturating apparatus, a trough, a plurality of longitudinally spaced rotary applicators mounted for idling rotation in said trough, said applicators being in the form of hollow apertured rollers having means at one end for introducing liquid asphalt under pressure, and means at the opposite end for introducing a heating medium, individual shields mounted in the trough over each applicator, and a plurality of rotary heating and feeding elements supported above the trough, whereby to permit a strip of felt to be trained over said elements and rollers in a loop like tortuous manner.

1,751,890. MACHINE FOR AERIAL NAVIGATION. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Sept. 16, 1927. Serial No. 219,981. 12 Claims. (Cl. 244—2.)



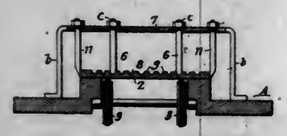
3. A landing gear for aeroplanes or the like including an element adapted to be engaged with the ground and yieldable means for taking up the shock due to said engagement, said yieldable means including axially aligned cooperating cam members, one of which is rotatable relative to the other about said axis by the ground engaging element.

1,751,891. CLEANING DEVICE FOR SLICING-MACHINE KNIVES. PETER SIVERTSEN, New York, N. Y. Filed Jan. 4, 1926. Serial No. 79,174. 5 Claims. (Cl. 146—102.)



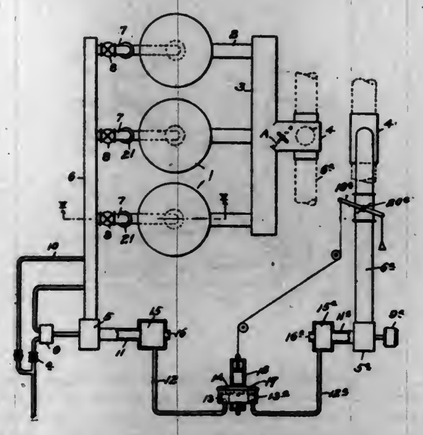
1. A cleaning device for slicing machines combining a receptacle having an extended portion, a free end located contiguous to the extended portion and a supporting post adjacent to the free end and extended portion.

1,751,892. DEVICE FOR SHAPING BATTERY SEPARATORS. VERNON A. SMITH, Berkeley, and CHARLES BACKMAN, Oakland, Calif. Filed Sept. 8, 1925. Serial No. 55,033. 4 Claims. (Cl. 144—2.)



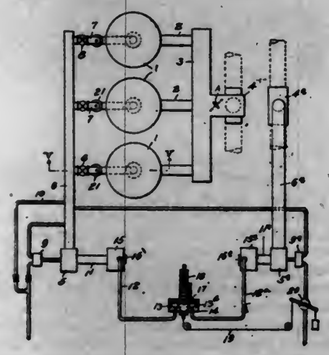
1. A device for shaping battery separators having corrugated faces comprising a cutting table, spaced apart stationary blades carried by the cutting table, a battery separator magazine positioned at one end of the table, a conveyer for moving the separators from the magazine and into cutting engagement with the blades and guides for engaging the grooves of a corrugated face of the separator during the shaping thereof by the cutting blades.

1,751,893. REGULATION OF COMBUSTION OF GASES IN FURNACES. ALFRED STEINBART, Pittsburgh, Pa. Filed Dec. 11, 1925. Serial No. 74,736. 6 Claims. (Cl. 110—31.)



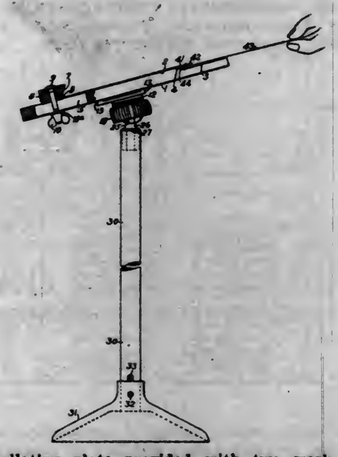
1. In combination a furnace, a producer for supplying gas to the furnace, conduits for conducting air to the furnace and producer respectively, a variably operable means for forcing air through one of said conduits, means adapted to supply to the other conduit a quantity of air greater than is necessary to effect combustion of gas supplied at any given time, a valve in the latter of said conduits, and means operative by and in accordance with changes of pressure in the variably supplied air for shifting said valve.

1,751,894. REGULATION OF COMBUSTION OF GASES IN FURNACES. ALFRED STEINBART, Pittsburgh, Pa. Filed Feb. 7, 1925. Serial No. 7,636. 14 Claims. (Cl. 110—31.)



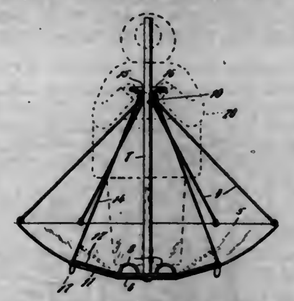
1. The method herein described for effecting the progressive combustion of coal which consists in effecting a preliminary combustion of coal, supplying air for such preliminary combustion in quantities less than that required for complete combustion of the coal, effecting the combustion of the gas formed during the preliminary combustion and regulating the supply of air for one of such combustion stages by and in accordance with the air supplied for the other combustion stage.

1,751,895. COLLATING TABLE. HARVEY J. STEWART, San Francisco, Calif., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Sept. 13, 1927. Serial No. 219,313. 19 Claims. (Cl. 282—29.)



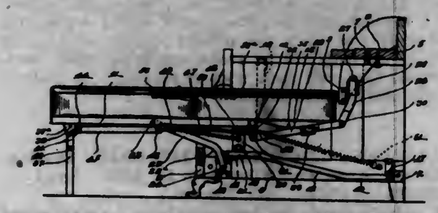
1. A collating plate provided with two work sheets supporting surfaces disposed in separate parallel planes and means for directing a work sheet from one to the other of said surfaces.

1,751,896. RETARDING DEVICE FOR PERSONS ESCAPING FROM A SUBMERGED VESSEL. RAYMOND A. TAYLOR, Frederick, Md. Filed Feb. 8, 1929. Serial No. 338,484. 6 Claims. (Cl. 114—16.6.)



1. An apparatus of the class described comprising a stand, a post rising from the stand, a body disposed about the stand, openings in the body, valves associated with the opening, and means operable from the post for opening the valves.

1,751,897. FURNITURE. MARTIN THUM, Rochester, N. Y. Filed Oct. 28, 1925. Serial No. 65,464. 10 Claims. (Cl. 5—17.)



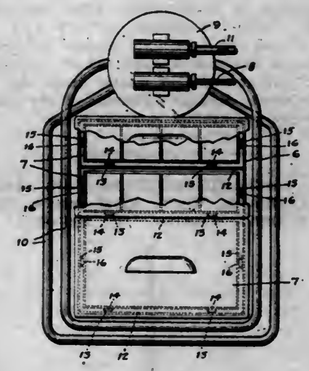
1. In furniture, the combination with a frame, of a bottom member movable to an inner and to an outer position on the frame, an extension for the rear edge of the bottom member pivoted on the latter to move to and from an extended position, and means connected with said extension for causing the latter to swing upwardly as the bottom member moves inwardly, said means comprising two links pivoted to the bottom member, guides on the links with which said extension engages, and links pivoted to the first mentioned links and also to the frame above the bottom member to cause the first mentioned links to swing upwardly.

1,751,898. DEVICE FOR WEIGHING MATERIAL DURING ITS MOTION THROUGH A CONVEYER. RICHARD UHLIG, Bethlehem, Pa. Filed July 15, 1927, Serial No. 206,104, and in Germany Dec. 19, 1925. 3 Claims. (Cl. 265—27.)



1. A device for weighing material during its motion through a conveyer, comprising a weighing device, a travelling belt mounted on reversing rollers and adapted to serve for the supply of said material to said device as well as for the discharge of said material therefrom, means for mounting said weighing device and said reversing rollers displaceably in the direction of travel of said belt for the purpose of changing at will the place of weighing of said material as well as the place of discharging the same from said device.

1,751,899. COOLING UNIT. HARRY A. WHITFIELD, Arlington, N. J. Filed July 30, 1927. Serial No. 209,418. 6 Claims. (Cl. 62—111.)

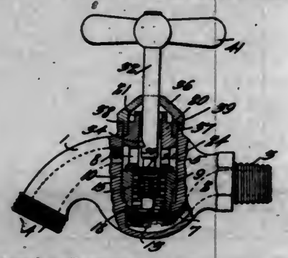


1. In a cooling unit for a refrigerating machine, means for chilling the unit, drawer supporting means located within the unit, drawers carried by said supporting means, and means cooperating with said supporting means and said drawers for preventing said drawers from freezing to said supporting means, said means including a carrying medium for a fluid having a low freezing point.

1,751,900. FAUCET. CHARLES W. WILSON, Renton, Wash. Filed Aug. 4, 1927, Serial No. 210,652. Renewed Nov. 9, 1929. 1 Claim. (Cl. 277—42.)

A valve operating means for faucets, including a body having a vertical well therein and formed with inlet and outlet openings to the well, the wall of said well being threaded, a valve barrel exteriorly threaded and

adapted to be positioned in the well, a shoulder formed on the valve barrel providing a stop for said barrel, a valve seat formed at the lower end of the valve barrel, a valve seating on said valve seat, a valve stem integral with the valve extending upwards into said barrel, said stem being reduced and threaded in its upper portion, a U-shaped yoke carried on the valve stem, the reduced portion providing a shoulder upon which the bend of the yoke rests, the side arms of said yoke being bent laterally adjacent their extremities, a coil spring bearing against the bottom of the valve barrel and the bent ends of the

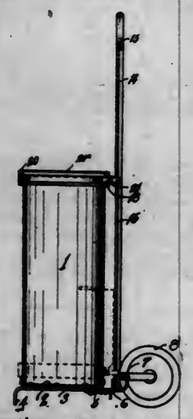


yoke, a second coil spring positioned over the reduced portion of the valve stem, a shoulder formed interiorly of the valve barrel above the yoke, a gasket seated in said shoulder, a cam operating rod adapted for movement within the valve barrel and formed with a head adapted to seat on the gasket, said head also bearing against the second spring and bent yoke arm, whereby movement of the operating rod unseats the head from the gasket, depresses the yoke which unseats the valve opening the inlet, the second spring preventing chattering of the operating rod.

1,751,901. PROCESS OF WORKING NATURAL SODIUM SULPHATE DEPOSITS. GEORGE F. ANDERSEN, Seattle, Wash., assignor, by direct and mesne assignments, to Weltha Process Corporation, Seattle, Wash., a Corporation of Washington. Filed Nov. 12, 1928. Serial No. 318,897. 6 Claims. (Cl. 23—41.)

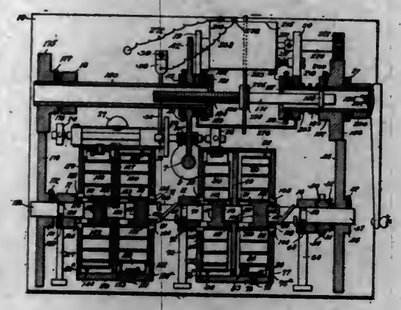
1. The process of obtaining sodium sulphate from natural sodium sulphate deposits, which consists in excluding the silt and foreign matter from said deposits and permitting the natural formation of the sodium sulphate from natural sodium sulphate brine.

1,751,902. WHEELED SHOPPING BAG. LEMUEL A. BROWN, Charleston, Wash. Filed June 5, 1928. Serial No. 283,087. 3 Claims. (Cl. 280—51.)



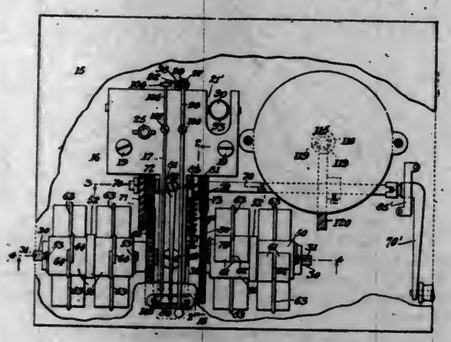
1. The combination with a wheeled frame having a slotted handle, of a collapsible bag secured to said frame, a bag-holder adapted to slide in said slotted handle, and means on the handle to support the holder with the bag in extended position.

1,751,903. ELECTRICALLY-WOUND SPRING MOTOR. JOHN BAILEY BROWNING, Camden, N. J. Filed Nov. 9, 1921. Serial No. 513,972. 48 Claims. (Cl. 185—37.)



1. A spring motor, having in combination, a supporting frame provided with a plurality of depending brackets; a shaft rotatably mounted through each bracket, being substantially centrally supported and having each of its ends freely projecting therefrom on each side of said brackets, and a spring unit mounted on and between the free ends of said shafts between said brackets, said units being freely removably therefrom without removing said shafts from said brackets.

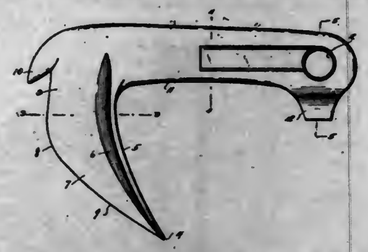
1,751,904. ELECTRICALLY-WOUND SPRING MOTOR. JOHN BAILEY BROWNING, Camden, N. J. Filed July 3, 1919. Serial No. 308,408. 47 Claims. (Cl. 185—4.)



1. A spring motor having in combination a support, a shaft extending rotatably therethrough and projecting in opposite directions therefrom, and a spring unit including a rotatable cage inclosing a coiled spring surrounding said shaft upon each side of said support, said spring units being connected in series and being freely withdrawable from said shaft without changing the position of said shaft in said support.

1,751,905. LUMBERMAN'S LOG GRAB. CYRUS L. BUTTON, Kane, Pa. Filed June 18, 1929. Serial No. 371,791. 3 Claims. (Cl. 294—82.)

1. A lumberman's log grab comprising a shank having an eye at one end and a bill at the opposite end, said bill at its outer end having a relatively broad chisel like penetrating edge, and being of gradually decreasing width



from said end to the point of joinder with the shank, said shank being of less width at its inner edge than at its outer or back edge and having a reduced inner portion.

1,751,906. HOLLOW CYLINDER OR BUSHING AND METHOD OF RECESSING THE SAME. GEORGE HALL CLARK, Cincinnati, Ohio, assignor, by mesne assignments, to Merriman Brothers, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1926. Serial No. 157,318. 18 Claims. (Cl. 29—149.5.)



1. The hereindescribed method of preparing bushings for the reception of lubricant inserts which consists in drilling a hole through the wall of the bushing from the exterior thereof and forming a recess in the inner face of said wall by means of a tool passed through said hole.

7. A hollow cylinder having a continuous annular wall provided with a series of holes some of which pass entirely through said wall and the remainder of which comprise recesses in the inner face of said wall, extending only part way through the latter, and disposed diametrically opposite said first named holes.

1,751,907. ADJUSTABLE SEAT. ALBERT A. CRIPPS, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation, a Corporation of Delaware. Filed Mar. 19, 1928. Serial No. 262,917. 8 Claims. (Cl. 155—14.)



1. In combination, a motor vehicle having a flooring, a seat, and means for pivotally and adjustably mounting said seat upon said flooring including a pair of spaced racks secured to the flooring, each rack being provided with spaced recesses, a tie rod carried by said seat and receivable in said recesses, and means for locking said tie rod to said racks.

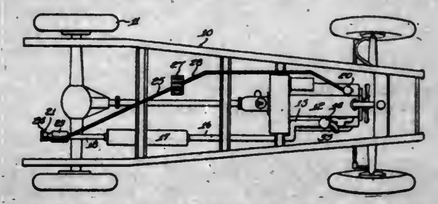
1,751,908. PROCESS OF AND PRODUCT FOR PHOTOGRAPHIC ETCHING. ALEX BROOKING DAVIS, Cincinnati, Ohio, assignor, by mesne assignments, to Keystone Watch Case Corporation, Riverside, N. J., a Corporation of Pennsylvania. Filed Dec. 16, 1926. Serial No. 155,336. 33 Claims. (Cl. 95—5.7.)

1. A photographic etching prepared by coating the object to be etched with a solution of asphalt, allowing the solvent to evaporate, washing the deposited film with ether, exposing to a light pattern, developing the image and etching.

1,751,909. PHOTOGRAPHIC RESIST AND PROCESS OF PHOTOGRAPHIC ETCHING. ALEX BROOKING DAVIS, Cincinnati, Ohio, assignor, by mesne assignments, to Keystone Watch Case Corporation, Riverside, N. J., a Corporation of Pennsylvania. Filed Jan. 28, 1927. Serial No. 164,380. 15 Claims. (Cl. 95—5.7.)

1. As the body of an alkali-insoluble resist for photo etching, the reaction product of shellac with tannin-bearing substances.

1,751,910. VENTILATING MEANS FOR MOTOR VEHICLES. DANIEL C. DOZIER, Norfolk, Va., assignor to Edgerton-Dozier Corporation, Suffolk, Va., a Corporation of Virginia. Filed Mar. 12, 1928. Serial No. 261,007. 5 Claims. (Cl. 123—171.)



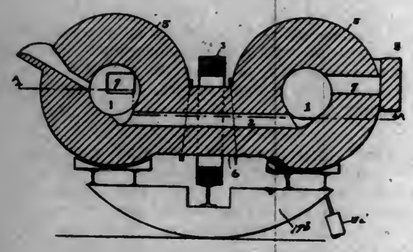
1. A device of the character described comprising a conduit communicating with one side of the crank case of an internal combustion engine to deliver air thereto, a pipe communicating at one end with the opposite side of the crank case, means connected to the opposite end of said pipe for creating a partial vacuum therein, and a ventilator connected to said pipe intermediate its ends and adapted to deliver air thereto in insufficient quantities to satisfy the depression therein created by said means.

1,751,911. BRAKE BLOCK. HEINRICH CONSTANTIN GEORGI, Berlin-Zehlendorf-West, Germany, assignor to Deutsche Asbestwerke A. G., Berlin-Zehlendorf, Germany, a Joint Stock Company. Filed May 11, 1929, Serial No. 362,311, and in Germany Nov. 30, 1927. 5 Claims. (Cl. 188—259.)



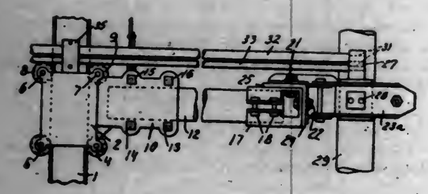
1. A fibrous brake block having a central core and a surrounding body of compressed fibrous material, the fibers in the body extending generally in a direction angularly with respect to the axis of the core.

1,751,912. ELECTRIC INDUCTION FURNACE. ALBERT E. GREENE, Seattle, Wash. Original application filed Jan. 3, 1913, Serial No. 740,034. Divided and this application filed Aug. 30, 1920. Serial No. 406,894. 26 Claims. (Cl. 266—1.5.)



1. An electric furnace comprising a horizontal cylindrical shell lined with refractory material forming a main chamber within, means for tilting about an axis parallel to that of the horizontal cylindrical shell to tilt said shell backwards or forwards, a transformer attached to said furnace having a primary winding for magnetizing the core, an induction channel encircling said core and connecting with the main chamber at one side thereof, means for heating charge in the main chamber by current through electrodes entering said chamber and means for independently heating the metal in the induction channels by inducing current therein when desired.

1,751,913. ELECTRIC FURNACE. ALBERT E. GREENE, Medina, Wash. Filed Feb. 8, 1927. Serial No. 166,676. 8 Claims. (Cl. 266—1.5.)



1. An electric furnace electrode mechanism comprising an electrode holding arm movable vertically to raise or lower an electrode held thereby, and a clamping member attached to said arm for clamping an electrode, and means for lateral adjustment of the position of said clamping member with respect to the axis of said arm.

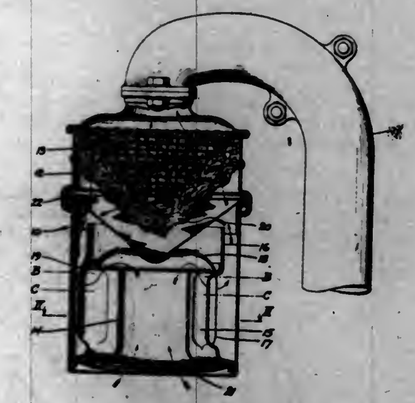
1,751,914. PUMP BARREL. EDGAR E. GREVE, Bellevue, Pa. Filed Mar. 28, 1928. Serial No. 265,284. 2 Claims. (Cl. 74—108.)

2. In a pump barrel, a tubular replaceable liner formed of a series of liner sections each having its exterior surface provided with rows of spaced-apart projecting contact elements providing noncontinuous contacting surfaces with the elements of one row staggered with relation to the



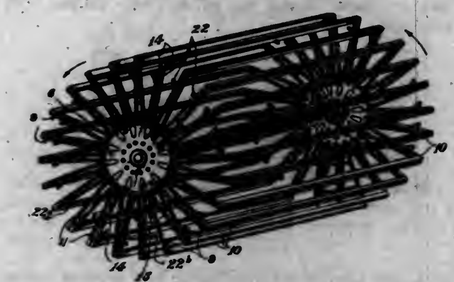
elements of an adjacent row, an upper and a lower collar disposed on the upper and lower ends of the barrel and co-operating with the liner.

1,751,915. AIR CLEANER. ELBERT J. HALL, Berkeley, Calif., and CHARLES A. WINSLOW, Michigan City, Ind. Filed Jan. 4, 1926. Serial No. 79,142. 4 Claims. (Cl. 183—15.)



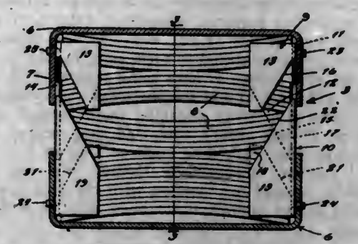
4. An air cleaner comprising a casing having an outlet in its upper portion for connection with a suction device, a filtering element comprising a conical basket extending across the casing below the outlet and filled with filtering material, said casing having an opening in its bottom, a standpipe surrounding the opening and extending upwardly within the casing and forming in conjunction with the latter an annular reservoir, a perforated cylindrical member arranged in the reservoir, a baffle disposed above the standpipe and below the filtering element for directing incoming air through the perforated member in the reservoir whereby the air comes in contact with the liquid and the liquid is carried into the filtering material, said baffle being so arranged as to return the liquid draining from the filtering material back into the reservoir.

1,751,916. FLAX-PULLING MECHANISM. THOMAS WALTER HALL, Leonard, Ontario, Canada. Filed Apr. 8, 1927, Serial No. 182,049, and in Canada Apr. 14, 1926. 2 Claims. (Cl. 55—66.)



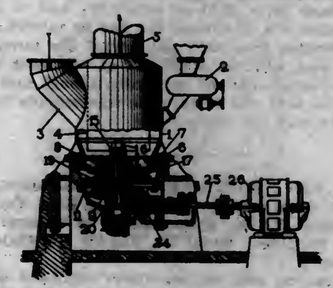
1. A flax pulling mechanism including a reel comprising radially fixed arms and co-operating pivoted arms arranged in pairs with each of said pivoted arms normally spaced from the co-operative fixed arms; toggle hinges between each pivoted arm and its co-operative fixed arm; means for successively opening said toggle hinges and thereby drawing each pivoted arm into engagement with its co-operating arm, at times; and means to co-operate with said last mentioned arms in pulling the flax stalks.

1,751,917. RAILWAY-CAR-TRUCK SPRING. CYRUS HANKINS, Baltimore, Md., assignor, by mesne assignments, to T. H. Symington and Son, Inc., Baltimore, Md., a Corporation of Maryland. Filed June 13, 1925. Serial No. 36,976. 16 Claims. (Cl. 267—3.)



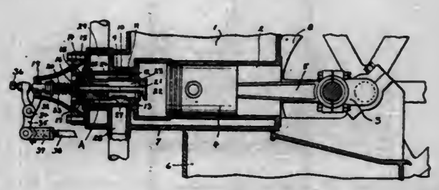
1. In a railway car truck spring device, a pair of casing sections of pan-like formation arranged with their open sides toward each other and normally spaced apart, sets of cushioning devices located within and between the casing sections, and means detachably mounted within said sections for spacing the adjacent sets laterally apart.

1,751,918. GRINDING MILL. RALPH M. HARDGROVE, Bethlehem, Pa., assignor to Fuller Lehigh Company, Fullerton, Pa., a Corporation of Delaware. Filed May 14, 1928. Serial No. 277,437. 13 Claims. (Cl. 83—45.)



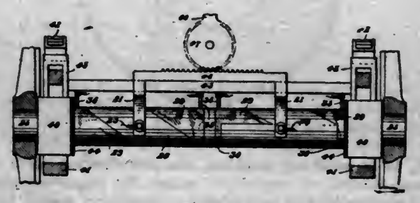
1. In a grinding mill, a grinding ring having a grinding surface sloping downwardly and outwardly, a member inside of said ring having a surface sloping downwardly and outwardly at a greater angle than the grinding surface of said ring, and balls between said ring and member.

1,751,919. INTERNAL-COMBUSTION ENGINE. CORNELIUS B. HARDMAN, Columbus, Ohio. Filed Mar. 26, 1928. Serial No. 264,743. 3 Claims. (Cl. 123—79.)



1. In an internal combustion engine provided with intake and exhaust passages, a common passage leading into the engine cylinder and communicating with both the intake and exhaust passages, a cage member located within said common passage and provided at its inner end with a flange and a valve seat, a hollow distributing sleeve rotatably supported on the exterior of said cage member, means for imparting turning motion to said sleeve to uncover said intake and exhaust passages in their proper order, a primary valve working on the valve seat of said cage member, a cap section fastened to the head of said cylinder for retaining said sleeve against longitudinal movement and adjustable means carried by said cap section and acting on the outer end of said cage member for maintaining said flange in fluid-tight seating engagement with the inner end of said passage.

1,751,920. VALVE CONTROL FOR DRIVING ENGINES. FRED E. HOLBROOK, Elmira, and CHARLES H. HOLBROOK, Hornell, N. Y. Filed May 28, 1925. Serial No. 33,412. 1 Claim. (Cl. 200—26.)

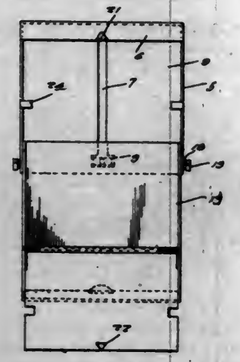


Circuit making and breaking means, comprising in combination, an axle having a longitudinal keyway, an insulating sleeve keyed to said axle for relative longitudinal movement in respect thereto, said sleeve being held against lateral movement relative to the bearings, a plurality of contacts embedded in said sleeve and arranged in pairs, a collector ring formed integrally with each contact, a slide bar connecting said bearings, an electricity supply brush for each collector ring carried by the slide bar, a yoke for each pair of contacts slidably carried by said bar and straddling the sleeve and journal, a brush carried by each end of each yoke, and means for sliding said yokes in unison longitudinally of the slide bar and sleeve.

1,751,921. CIGARETTE CASE. HARDING O. JORDAN, Langston, Okla. Filed Dec. 18, 1928. Serial No. 325,852. 3 Claims. (Cl. 206—41.)

1. A cigarette case of the class described comprising a casing open at its front and bottom sides, a cigarette container mounted for sliding movement in the casing and

open at its upper portion, trunnions carried by the container and supported by the casing for the pivotal move-

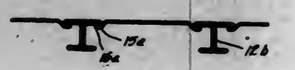


ment of the former when arranged in outward position and a door hingedly mounted at the front side of the container.

1,751,922. WASHING MACHINE. JOE H. JOSEPH, Cincinnati, Ohio. Filed Apr. 8, 1929. Serial No. 353,314. 3 Claims. (Cl. 259—108.)

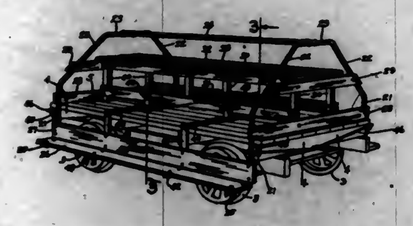
1. In a washing machine, the combination with the vessel thereof, of mechanical means for imparting eccentric movement, and an agitator eccentrically moved thereby, said agitator having substantially continuous walls of substantial depth in the direction of the axis of the vessel.

1,751,923. STRUCTURAL MATERIAL. THOMAS H. KANE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed Dec. 21, 1925. Serial No. 76,665. 2 Claims. (Cl. 189—34.)



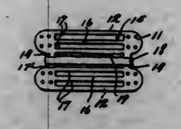
1. A roofing or flooring material comprising a continuous sheet of metal, a plurality of stiffening ribs therefor formed of sheet metal folded to I or T shape, and means for securing a double flange of said ribs to one side of said sheet, said means comprising folds formed of the metal of said sheet crimped over the edges of said double flange.

1,751,924. SET-OFF VEHICLE TOP. WALTER F. KASPER, Fairmont, Minn., and EDWARD J. MCKERNAN, Topeka, Kans., assignors to Fairmont Railway Motors, Inc., Fairmont, Minn., a Corporation of Minnesota. Filed May 29, 1929. Serial No. 367,002. 11 Claims. (Cl. 105—162.)



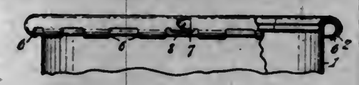
1. A unit adapted for attachment to a wheeled vehicle including parts arranged to provide a seat above the level of the vehicle floor, of dimensions to expose sufficient floor surface to provide seating space laterally of the seat.

1,751,925. FASTENING DEVICE FOR GARMENT STRAPS. LILLUS A. KELLEY, Calistoga, Calif. Filed Mar. 15, 1928. Serial No. 261,949. 1 Claim. (Cl. 24—196.)



A fastening device adjustable for securing a garment supporting strap to a garment, comprising a flat body formed to provide two groups of bar members, the members of each group being separated to form slots for the reception of a strap, said groups of bars being separated to form a relatively wide central slot therebetween and substantially parallel therewith, strap engaging teeth formed along a bar of one of said groups bordering said central slot, a strap engaging bar extending longitudinally of the central slot and shiftable transversely thereof, said bar having teeth along one side for coaction with the first mentioned teeth, and means whereby said body may be secured to a garment.

1,751,926. CONTAINER. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed June 19, 1928. Serial No. 286,622. 5 Claims. (Cl. 220—61.)

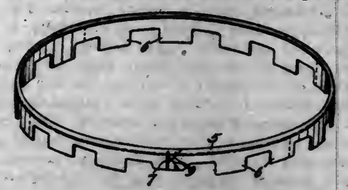


1. A sealing ring of the character described, comprising a single strip of sheet metal, one end of said ring having therein a transverse slot and an inwardly pressed seat extending from said slot toward the terminal edge of said end, and the other end of said ring having a struck-up tongue entered outwardly through said slot and engaged in said seat so as to lie substantially flush with the first named end of the ring.

1,751,927. CONTAINER. HENRY KIELBERG, Martins Ferry, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed June 19, 1928. Serial No. 286,623. 2 Claims. (Cl. 220—61.)

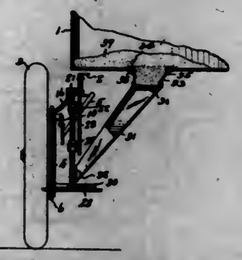
1. A sealing ring for containers composed of a strip having an opening adjacent one end and having oppositely disposed tongues at the ends of the opening, the other

end of the strip being of reduced width and received in said opening and having oppositely disposed tongues in a plane parallel to and in register with the plane of the



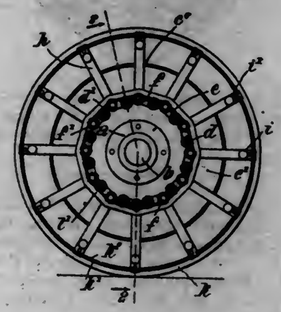
first named tongues and bent outwardly to engage the inner face of the first named end of the strip, the first named tongues being engaged over the outer face of the reduced end of the strip.

1,751,928. SAND SPREADER FOR TRUCKS. MARTIN LACHNER, Delawana, N. J. Filed Mar. 7, 1927. Serial No. 173,404. 2 Claims. (Cl. 275—8.)



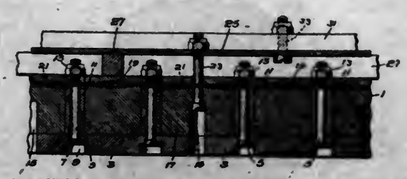
1. A spreader for trucks comprising, a hanger secured to the truck chassis well in advance of the rear wheels of the truck, a bearing carried by said hanger, a vertical spreader shaft mounted in said bearing for rotation about a vertical axis, a horizontal spreader disk secured to said spreader shaft, a chute secured to the truck chassis, said chute having its discharge end positioned over the spreader disk and its intake end positioned under the truck body, and a discharge member provided on the bottom of the truck body over the intake end of said chute, said discharge member having its lower outlet portion positioned to extend into the intake end of said chute during the spreading operation, said discharge member being arranged to move out of the intake end of said chute during a dumping operation of the truck.

1,751,929. FLEXIBLE WHEEL. JEAN JOSEPH CHARLES LAROZE, St. Cloud, France, assignor to The French Society "La Roue Elastique," Billancourt, Seine, France. Filed Dec. 1, 1928, Serial No. 323,024, and in Germany Dec. 10, 1927. 3 Claims. (Cl. 152—29.)



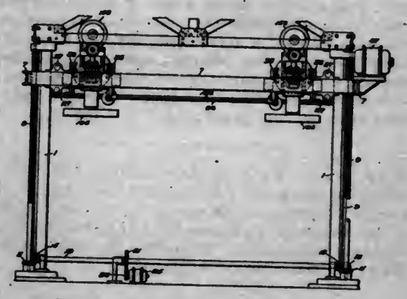
1. A wheel comprising a rim assembly including a substantially circular elastically deformable rim element, a plurality of spokes connected to said rim assembly, said spokes having a portion thereof which is displaceable radially, and means operative to oppose the outward displacement of all but one spoke, when the displaceable portion of said last-named spoke is displaced inwardly.

1,751,930. POLISHING HEAD. PETER S. LEGGE, Somerville, Mass. Filed Jan. 5, 1927. Serial No. 159,119. 12 Claims. (Cl. 51—195.)



1. A polishing head comprising a disk of flexible material carrying a plurality of spaced abrading members, and a separate rigid backing for said disk supporting the same in spaced relation at spaced points.

1,751,931. STONEWORKING MACHINE. PETER S. LEGGE, Pompton Lakes, N. J. Filed Aug. 2, 1927. Serial No. 210,072. 9 Claims. (Cl. 51—56.)



1. A machine of the character described having, in combination, a framework, a plurality of carriages each supporting a tool and a motor, the latter for driving said tool, a second carriage upon which said plurality of carriages are mounted, a single motor, and means actuated by said motor for traversing said plurality of carriages upon said second carriage and the latter upon said framework.

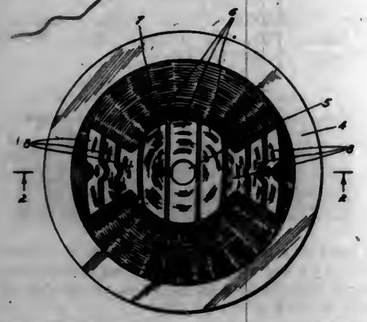
1,751,932. SALTS OF ALKALINE-EARTH METALS. FELIX LINDNER, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Apr. 25, 1927, Serial No. 186,592, and in Germany June 8, 1926. 5 Claims. (Cl. 23—102.)

2. The process of producing salts of alkaline earth metals which comprises grinding an alkaline earth metal sulfid with an ammonium salt of a strong acid to be combined with the alkaline earth metal, with an addition of a small amount of water.

1,751,933. PRODUCTION OF HYDROCYANIC ACID. FELIX LINDNER and FRIEDRICH LINK, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 18, 1927, Serial No. 227,051, and in Germany Oct. 30, 1926. 3 Claims. (Cl. 23—151.)

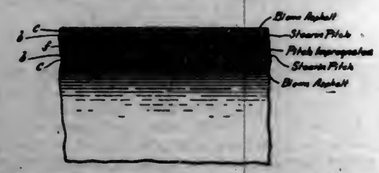
3. The process of producing hydrocyanic acid which comprises passing a mixture of carbon monoxide and ammonia over a catalyst comprising iron carbide and molybdenum at a temperature of about 450° C.

1,751,934. ANTIGLARE REFLECTOR. REGINALD LINTON and WILLIAM JOHN JARVIS, Sydney, Australia, assignors to The Egarsol Glareless Reflector Co. Ltd., Sydney, Australia, a Corporation of New South Wales. Filed Mar. 9, 1928, Serial No. 260,383, and in Australia Nov. 8, 1927. 2 Claims. (Cl. 240—41.)



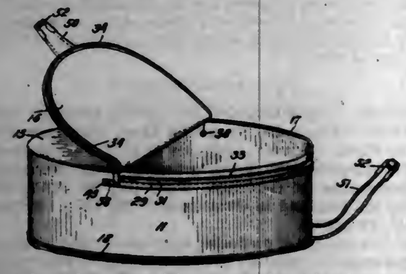
1. An anti-glare concave reflector, comprising a plurality of substantially rectangular embossed transversely flattened and polished surfaces adjacent to the center of the reflector for the purpose of reflecting a beam of light from a light source within the reflector, that will penetrate a long distance ahead, a mat or non-highly polished surface above and below the said embossed polished surfaces for producing a soft widely diffused beam of light directly in front of the reflector, and highly polished embossed transversely flattened portions disposed on each side of the central embossed portion, whereby a wide penetrating beam of light is reflected.

1,751,935. WATERPROOF FIBER ARTICLE AND METHOD OF MANUFACTURING THE SAME. EVERETT W. LOVERING and WALLACE B. VAN ARSDEL, Berlin, N. H., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Dec. 12, 1928. Serial No. 325,428. 14 Claims. (Cl. 91—68.)



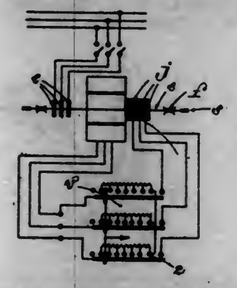
1. A product comprising pitch-impregnated fibrous material, a coating comprising blown asphalt on such material, and a substance under said coating firmly bonding it to the fibrous material.

1,751,936. HAND BAG. JOSEPH N. LOWE, New York, N. Y. Filed Dec. 15, 1926. Serial No. 154,947. 10 Claims. (Cl. 206—8.)



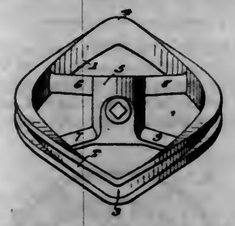
1. A hand bag, comprising, a peripheral band composed of flexible material, strip-form stiffening means reinforcing it from its inner surface, side walls secured to the edges of the peripheral band, and one of the side walls adapted to open to provide with the adjacent free edge of the peripheral band a mouth portion for the bag, the stiffening means extending substantially to the free edge, hookless fastening means secured to the openable side wall and to the peripheral band for substantially the length of the mouth portion of the bag and overlapping the outside of the band when the bag is closed, such means comprising a manually operable slide for causing the mutual engagement of the hookless fastenings or the disengagement thereof, such hookless fastening means having a backing support upon the reinforced adjacent portion of the band when the bag is closed.

1,751,937. SELF-EXCITING COMPENSATED ASYNCHRONOUS MACHINE. JEAN LOUIS MATABON and CHARLES MICHEL FOUCAULT, Lyon, France. Filed Nov. 28, 1925, Serial No. 72,025, and in France Dec. 26, 1924. 1 Claim. (Cl. 172—274.)



In a compensated asynchronous machine, a rotor having slots extending throughout its length, two windings wound together, on the said rotor in said slots, slip rings for three phase operation connected to one of said windings, a stator, three brushes connected to the stator winding, a commutator on which the said brushes are so adjusted that the machine runs in synchronism at no load or under light load, and a starter coupled to the said brushes and the said stator winding.

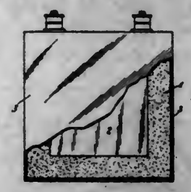
1,751,938. CAM. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Mar. 6, 1929. Serial No. 344,695. 2 Claims. (Cl. 74—1.)



1. A cast iron traverse cam comprising a rim treated at its return points to harden them, a hub and spokes connecting the hub with the rim between said hardened return points.

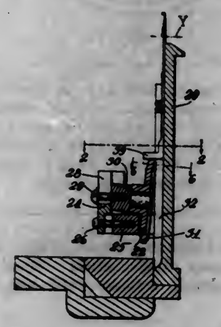
1,751,939. INSULATION OF ELECTRICAL APPARATUS. ALEXANDER MEISSNER, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed July 18, 1929, Serial No. 379,130, and in Germany July 12, 1928. 5 Claims. (Cl. 175—356.)

1. An electrical apparatus comprising one or more members housed within said casing and spaced therefrom, said spaces being subject to electric potential stresses produced by said member or members, there being



pulverized piezo-electric material disposed in said spaces, whereby said members are insulated from the casing and one another.

1,751,940. KNITTING MACHINE. FRANK J. MOLONEY, South Manchester, Conn., assignor, by direct and mesne assignments, to Howard E. Page, Belmont, Mass. Filed Dec. 31, 1928. Serial No. 329,377. 7 Claims. (Cl. 66—50.)



1. In a circular knitting machine having a needle-cylinder and needles, a pattern wheel consisting of a single disk adapted to engage and selectively raise said needles, said wheel having gear teeth projecting from the plane of one of its faces and directly meshing with said cylinder.

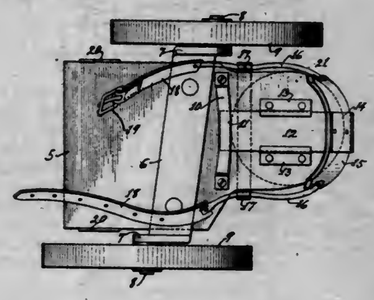
1,751,941. WRITING DEVICE. HOWARD I. MORRIS, Cleveland, Ohio, assignor to The Yoder Pencil Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 29, 1921. Serial No. 525,585. 53 Claims. (Cl. 120—17.)



1. A pencil comprising a body adapted to support a writing element at one end, a guide element through which the writing element moves, means normally acting on one of said elements in an outward direction, and means actuated by pressure transmitted in an endwise direction through one of said elements at the writing end of the pencil for effecting feeding of the writing element outwardly.

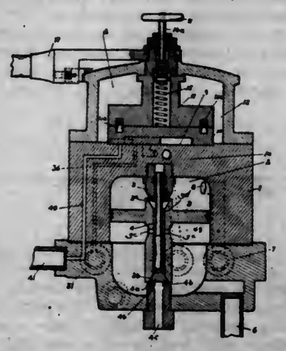
2. In a pencil, the combination of a body adapted to support at one end a writing element, a guide element through which the writing element moves, operating means including a spring normally acting on one of said elements in an outward direction, and an escapement means for controlling said operating means, whereby said writing element is fed outwardly at each operation of said escapement means.

1,751,942. ROLLER SKATE. ROBERT NANZ, New York, N. Y. Filed July 1, 1927. Serial No. 202,797. 1 Claim. (Cl. 208—177.)



In a device of the character described, a platform, a wheel journaled at each side of said platform, means including a slide, a serrated stop and a strap on said platform to fasten a shoe thereto with the toe extending beyond the front edge thereof and the heel substantially in line with one of said wheels, said platform being suspended below the axis of said wheels.

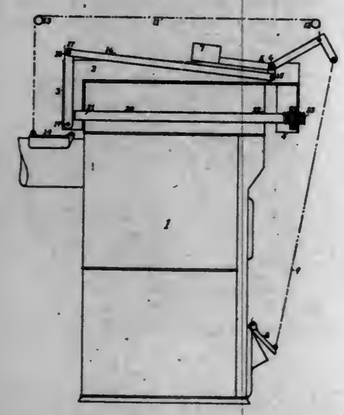
1,751,943. ENGINEER'S BRAKE VALVE FOR AIR-BRAKE SYSTEMS. ALEXANDER W. NICHOLSON, Dickerson Run, Pa. Filed Aug. 15, 1928. Serial No. 299,852. 15 Claims. (Cl. 303—55.)



1. In an air brake system equipped with retaining valves, an engineer's brake valve, said brake valve having ports and passages, certain of said ports and passages communicating with a high pressure supply, certain of said ports and passages communicating with a low pressure supply, certain of said ports and passages communicating with the train line, and certain ports and passages

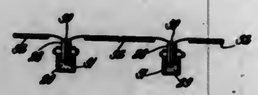
opening to the atmosphere, and valving means in said brake valve being movable to communicate the high pressure supply with the train line and arranged to communicate the train line with the exhaust ports and passages to operate the brakes and retaining valves, said valving means being also movable to communicate the ports and passages from the train line to the low pressure supply, said low pressure supply providing a pressure to the train line insufficient to operate the retaining valves.

1,751,944. REGULATOR FOR HOT-AIR FURNACES. FRED C. NOLL, Youngstown, Ohio. Filed Jan. 21, 1929. Serial No. 333,866. 3 Claims. (Cl. 236—10.)



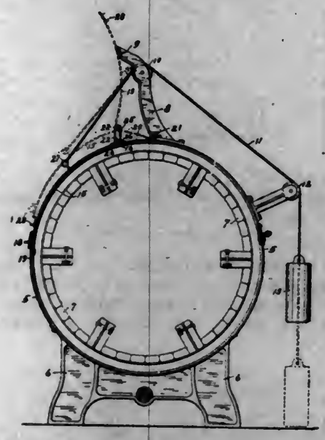
1. In connection with a hot air furnace, a rigid metallic frame lying across the top of the bonnet thereof; an expanding member adjustably attached to said frame and passing thru said bonnet; a reciprocating series of levers carried by said frame and so arranged as to be actuated at one end by the force of said expanding member; and a connection between the other end of said reciprocating levers and the draft doors of said furnace.

1,751,945. METHOD OF AND APPARATUS FOR MAKING STRIP SHINGLES. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 16, 1926. Serial No. 129,484. 7 Claims. (Cl. 91—68.)



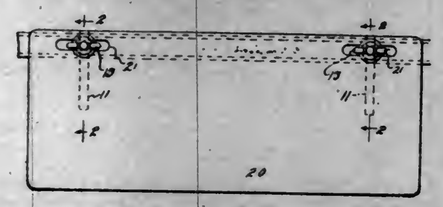
1. A method of making fabricated roofing elements, which comprises cutting a series of transverse slots in a sheet of roofing material of indeterminate length, saturating the sheet with waterproofing material, applying coating material to a face of the slotted and saturated sheet, surfacing the coating with comminuted material, slitting the sheet thus coated and surfaced longitudinally into strips through said slots, coating the newly cut edges only of the butt portions of the strips with additional waterproofing material, surfacing the edge coatings with grit, and cutting individual elements from the strips, each cut passing through a slot.

1,751,946. DOOR FOR WASHER DRUMS. HAROLD PROTHERS, Milwaukee, Wis., assignor to Vorclone Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 15, 1927, Serial No. 240,136. Renewed Aug. 29, 1929. 10 Claims. (Cl. 220—32.)



1. The combination with a drum provided with a door opening, of a hinged door interiorly overlapping substantially continuously the margin of said opening in liquid tight relation thereto, and means for affording clearance between said door and said margin preliminary to the hinged opening movement of said door.

1,751,947. LICENSE-PLATE HOLDER. FLOYD E. RADABAUGH, Pleasant Ridge, Mich. Filed May 4, 1927. Serial No. 188,630. 1 Claim. (Cl. 40—125.)



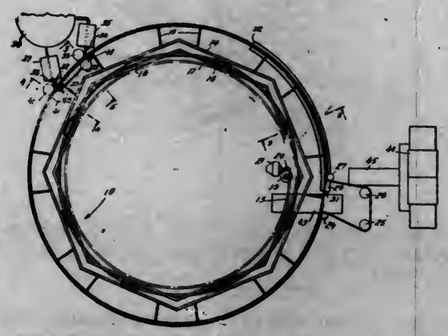
A license plate securing device comprising a bolt, a nut thereon, means to prevent removal of the nut from the bolt, and an integral T-head for said bolt having one end of the cross member of greater length and weight than the other.

1,751,948. STAPLE PULLER. HERMAN REICH, Des Moines, Iowa. Filed Apr. 16, 1928. Serial No. 270,380. 1 Claim. (Cl. 254—28.)



A staple puller especially designed for removing fence wires held to wooden posts by staples, said puller comprising in combination a straight handle portion formed oblong in cross section, so that it may be firmly held against twisting movements in the operator's hand, and having one end designed to receive hammer blows, the other end of the body being formed with a tapered end portion, the sides thereof being tapered from the body portion toward the point, and being also tapered from the under surface toward the upper surface, said under surface and said upper surface both being formed flat in cross section, and the lower surface being formed with a rounded portion near its end curved upwardly to meet the flat upper portion of the end portion, the said end portion being disposed at an angle relative to the body of approximately 32° so that an operator may by striking hammer blows upon the other end of the body easily drive the tapered end into a post under a staple and fence wire.

1,751,949. COATING APPARATUS. THOMAS ROBINSON, New York, N. Y., assignor to Lancaster Asphalt, Inc. Filed Dec. 16, 1926. Serial No. 155,245. 16 Claims. (Cl. 91—18.)



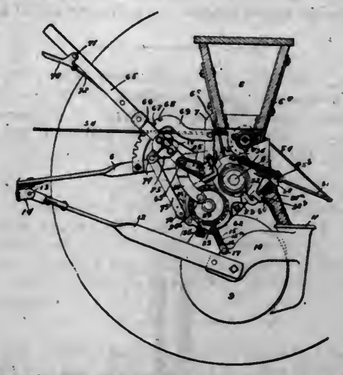
1. Apparatus for coating purposes, which comprises the combination of a rotary drum, an endless belt extending around the drum, this belt having a portion held free of the drum whereby articles to be coated may be inserted and held between the belt and the drum, and means for holding a supply of coating material out of contact with the drum, said means being disposed adjacent the periphery of the drum and in position to be entered by the articles held between the belt and the drum as the drum rotates.

1,751,950. CLAMPING MECHANISM FOR ROLLING SCREENS. GUIDO M. SACERDOTE, Bayside, N. Y., assignor to Belknap McLaughlin, Flushing, N. Y. Filed Dec. 2, 1925. Serial No. 72,702. 18 Claims. (Cl. 156—39.)



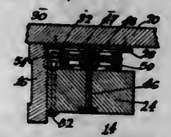
1. In a device of the class described comprising a frame and a panel movable within the same, longitudinal clamping means for the edges of said panel, hand controlled means independent of said panel, mounted on said frame, for setting said clamping means in their inoperative position, and means controlled by said panel adapted to set said clamping means in their operative position.

1,751,951. GRAIN DRILL. JOHN SCHAEFFER, Horicon, Wis., assignor to The Van Brunt Manufacturing Company, Horicon, Wis., a Corporation of Wisconsin. Filed July 22, 1921. Serial No. 486,751. 12 Claims. (Cl. 97—244.)



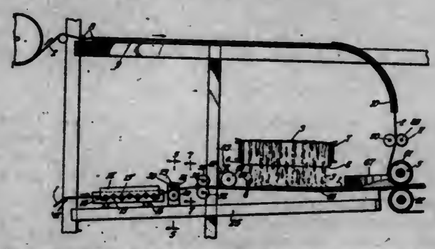
1. In a grain drill, the combination with the main frame, the ground wheel and the traction driven axle, of a plurality of drill units independently movable vertically, a lifter for moving all of the units vertically, means for actuating the lifter comprising a normally stationary drive wheel, means for optionally causing successive uni-directional half rotations of said drive wheel by the axle, a second wheel in constant engagement with and rotated by said drive wheel, power transmitting means actuated by the second wheel for moving the drill units vertically.

1,751,952. EXTENSION TABLE. HARRY SISKIN, Los Angeles, Calif. Filed Jan. 15, 1925. Serial No. 2,535. 4 Claims. (Cl. 45—112.)



3. In an extension table having movable top sections and angular bar slides connected thereto, a transverse side beam having grooves at opposite sides engaged by the bar slides, each angular bar slide having one flange attached to its top section and a flange depending at right angles from the top section, the depending flanges having teeth-engaging openings, and a gear mounted at the top of the beam having teeth engaging the openings to move the top sections oppositely.

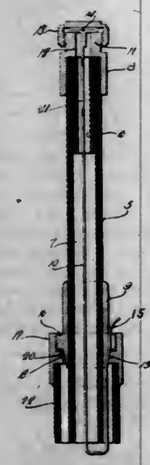
1,751,953. PLASTER-BOARD MANUFACTURE. CHARLES SPENGLER, Akron, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation, a Corporation of Maryland. Filed Nov. 17, 1926. Serial No. 148,843. 4 Claims. (Cl. 154—1.)



1. A plaster board apparatus comprising means for advancing a sheet over a perforating device for perforating

the margins thereof, means for folding the perforated margins, means for depositing plastic material on the sheet between the folded margins, means for affixing a cover sheet over the plastic material, and metal means arranged on each side of the sheets traversing therewith to support the folded margins for a predetermined distance.

1,751,954. FUSE. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 2, 1928. Serial No. 266,614. 4 Claims. (Cl. 200—127.)



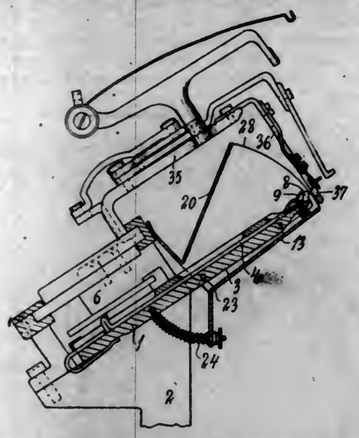
1. In an expulsion fuse of the character described, a tube having a bore of relatively small diameter extending throughout a portion of its length and a bore of greater diameter extending throughout the remainder of its length, said bore of greater diameter being unrestrictedly open to the atmosphere, contacts carried by the tube, and a fuse element positioned within the tube bores and electrically connected with the contacts.

1,751,955. MANUFACTURE OF ACTIVE SILICA. FRITZ STOEWENER, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 16, 1926, Serial No. 123,027, and in Germany July 23, 1925. 4 Claims. (Cl. 23—182.)

4. The process of producing active silica which consists in preparing a precipitate containing silica in a liquid medium without the formation of sols and jellies, separating the precipitate from the mother liquor and subjecting it to a pressure of at least 100 atmospheres, washing and drying it.

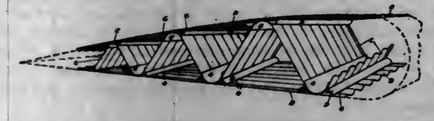
1,751,956. WORK HOLDER ESPECIALLY FOR KNITTING MACHINES FOR MENDING KNITTED, WOVEN, OR SIMILAR ARTICLES. DAG TORGERSEN, Oslo, Norway. Filed Mar. 30, 1928, Serial No. 265,992, and in Germany Mar. 31, 1927. 3 Claims. (Cl. 66—2.)

1. In a machine for mending knitted fabrics, having a needle bed provided with a plurality of reciprocating needles, a spring biased work supporting device pivotally mounted on said needle bed along an axis perpendicular to the path of said needles and substantially in the plane of the needle bed, said device being adapted to be moved about



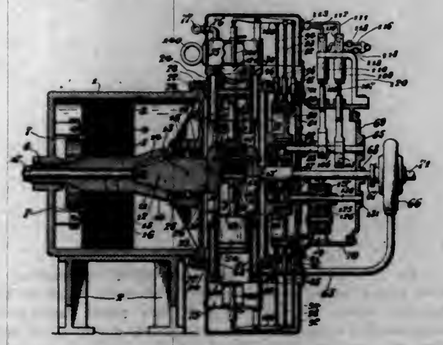
said axis against the action of said spring to carry the supported work in a direction transverse to the path of said needles.

1,751,957. AIRPLANE-WING CONSTRUCTION. TOM TOWLE, Detroit, Mich., assignor to The Towle Aircraft Company, Detroit, Mich., a Corporation of Michigan. Filed July 5, 1929. Serial No. 375,972. 6 Claims. (Cl. 244—31.)



1. An all metal airplane wing comprising an upper and lower skin covering of corrugated sheet material having the corrugations parallel to the line of flight a stiffening sheet interposed between said skins dividing the space therebetween into triangular wedge shape portions, said stiffening sheet having corrugations also parallel to the line of flight reinforcing stringers at the lines of contact between the stiffening sheet and the outer skin.

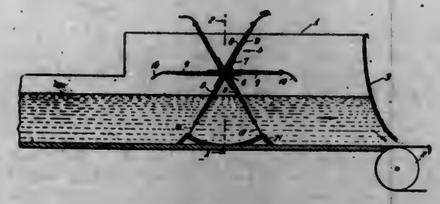
1,751,958. APPARATUS FOR GENERATING ELECTRIC CURRENT. OTIS D. TREIBER, Narberth, Pa., assignor to Treiber Diesel Engine Corporation, Camden, N. J., a Corporation of New Jersey. Filed Apr. 27, 1927. Serial No. 186,838. 17 Claims. (Cl. 290—1.)



2. In apparatus for generating electric energy, the combination of a generator having a casing and a rotatable

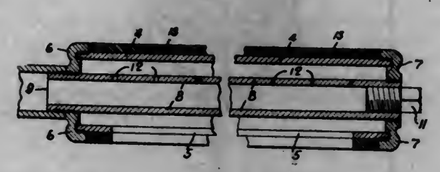
shaft, a radial internal combustion engine supported in contiguous relation to the said generator, the said engine also having a rotatable shaft, and means for connecting the said shafts together within the casing of the generator.

1,751,959. FLOW BOX FOR PAPER MACHINES. EDWARD J. TRIMBEY and GEORGE K. WALKER, Glens Falls, N. Y. Filed May 15, 1929. Serial No. 363,120. 8 Claims. (Cl. 92—44.)



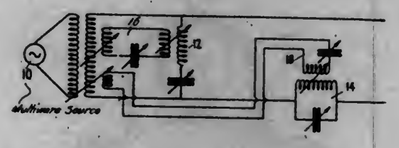
1. A flow box for paper machines comprising a plurality of plates movable in succession across the path of the flowing pulp by the movement of the pulp itself.

1,751,960. WATER-FLOW DEVICE. BENJAMIN VEENSTRA, Hawthorne, N. J. Filed May 10, 1928. Serial No. 276,557. 9 Claims. (Cl. 299—58.)



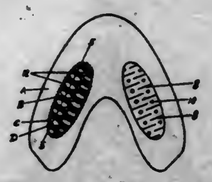
1. A water-flow device comprising, in combination, a pipe connected to a water-supply and whose only outlet consists of a plurality of lateral apertures, and means mounted upon said pipe for breaking up and diffusing the individual water-jets emitted through said apertures and delivering the water as a sheet of uninterrupted continuity.

1,751,961. ALTERNATING-CURRENT SYSTEM. NICOLAI VON KORSHENEWSKY, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Sept. 10, 1923, Serial No. 661,821, and in Germany Oct. 13, 1922. 9 Claims. (Cl. 178—44.)



3. An alternating current system comprising an alternating current generator, a parallel resonant circuit tuned to the frequency of energy produced by the generator and an auxiliary circuit for impressing voltage on the parallel resonant circuit to compensate for the voltage-drop caused by the ohmic resistance of the parallel resonant circuit.

1,751,962. ORNAMENTAL LEATHER GOODS. JOHN JAMES WALSH, St. Louis, Mo., assignor to Millus Shoe Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 31, 1928. Serial No. 329,568. 12 Claims. (Cl. 41—10.)



1. An ornamental flexible product of superposed layers, including a gathering layer and a gathered layer, the gathered layer having passages therethrough, the gathering layer having portions extending through the passages, and serving to shape the passages by gathering the material therebetween.

1,751,963. TIE. WALTER WEINSCHREIDER, Chicago, Ill. Filed May 31, 1928. Serial No. 281,934. 2 Claims. (Cl. 2—145.)



1. Detachable means for retaining together the ends of a four-in-hand tie and attaching the tie to a shirt front, comprising a plurality of spaced apart cross or transverse members detachably engaged with the edges of the back part of the outer section of a tie, a longitudinal connecting strip connected with each of the cross members thereby to form a pocketing device for receiving the inner portion of a tie, and said cross members and longitudinal members having button holes therein for receiving one or more of the buttons of a shirt front to hold the tie in place.

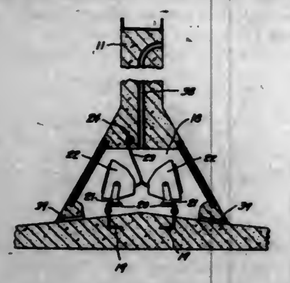
1,751,964. PHARMACEUTICAL COMPOUND AND PROCESS FOR MAKING SAME. WALTER T. WINCKLER, Chicago, Ill., assignor to Von Winkler Laboratories, Incorporated, a Corporation of Illinois. Filed Nov. 7, 1928. Serial No. 317,884. 5 Claims. (Cl. 260—11.)

5. A specific for gonorrhea comprising sulpho-ricin silver ammonium formate.

1,751,965. BUILDING STRUCTURE. HENRY L. WOOLFENDEN, Detroit, Mich. Filed June 16, 1928. Serial No. 285,815. 6 Claims. (Cl. 240—2.)

1. In a wash rack for automobiles, a pair of vertical walls, a floor extending between said walls and adapted

to receive an automobile thereon, and illuminating means built into said walls adjacent their junction with said



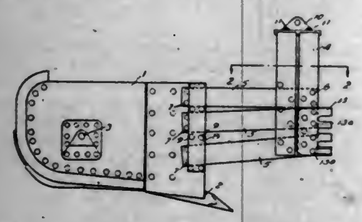
floor, and reflectors behind said means arranged to direct light therefrom on the chassis of an automobile between said walls.

1,751,966. EXTENSION SEAT. AVIS DICKSON WOOD, Lakewood, N. J. Filed Dec. 13, 1928. Serial No. 325,768. 2 Claims. (Cl. 155—8.)



1. In combination with a vehicle body, an extension seat comprised of inner and outer sliding frames, the inner one pivotally connected to a Y shaped element adapted to engage with and be held by a support fixed under the rear seat of said vehicle and the outer frame pivoted to a frame adapted to engage with a support fixed adjacent the back of the front seat of said vehicle.

1,751,967. DRAG BUCKET. LEWIS E. YOUNIE, Portland, Oreg., assignor to Electric Steel Foundry Company, Portland, Oreg., a Corporation of Oregon. Filed Oct. 3, 1928. Serial No. 310,074. 9 Claims. (Cl. 37—135.)

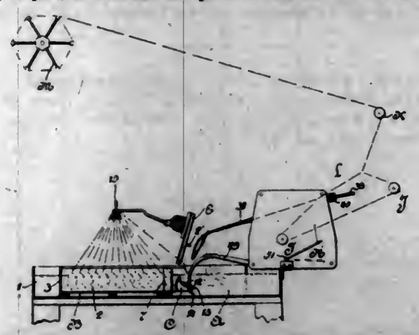


1. In a drag bucket, the combination of a bucket body; an arch in advance of the body; and a resilient connection between the body and the arch.

4. In a drag bucket, the combination of a bucket body; a resilient arch in advance of the body; and a connection between the body and the arch.

1,751,968. AUTOMATIC FILATURING MACHINE. TOICHIRO YUASA, Tokyo, Japan. Filed Mar. 28, 1928, Serial No. 265,371, and in Japan Apr. 15, 1927. 7 Claims. (Cl. 19—3.)

1. A machine for reeling silk from cocoons wherein the filaments of cocoons that are being unwound are reeled off together and twisted into one thread, said machine comprising a filament-guiding lever having a filament-joining head for guiding the filaments, a cocoon throwing-out device including a sluice into which reserve cocoons are fed, a pan, a movable scoop in said sluice for removing



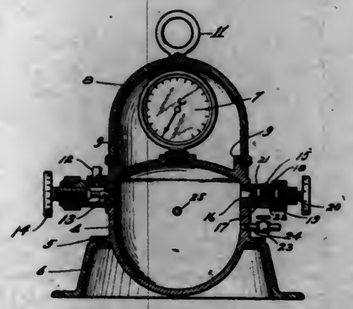
cocoons therefrom into said pan one at a time, and a filament-joining lever controlled by said guiding lever for actuating said scoop and for feeding a filament from a cocoon in said scoop to the head of said guiding lever.

1,751,969. STOP SIGNAL. VLADISLAV ALTMAN, Racine, Wis. Filed July 3, 1929. Serial No. 375,784. 2 Claims. (Cl. 116—63.)



1. A signal of the character described, including a rotatable shaft, collars mounted upon said shaft and movable independent of the shaft, adjustable overlapping dials carried by said collars, an indicator carried by the shaft and movable over the dials, pinions carried by said collars and means cooperating with the pinions to independently adjust the dials.

1,751,970. PRESSURE REGULATOR FOR AIR-SERVICE APPARATUS. ARCHIE M. BAIRD, Topeka, Kans. Filed Nov. 21, 1927. Serial No. 234,864. 4 Claims. (Cl. 221—23.5.)



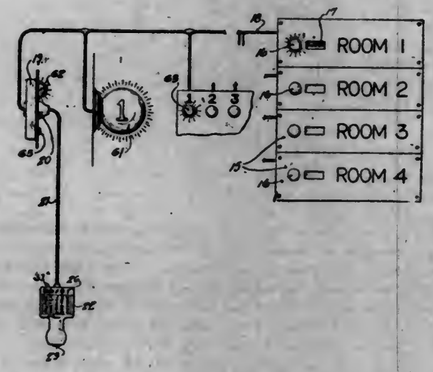
4. A pressure regulator for air service apparatus comprising an air reservoir of relative large volume and of large horizontal cross sectional area, a valve controlled inlet to said reservoir communicating with a supply of pressure fluid, a series of flexible tubes communicating with said reservoir through the side walls thereof, each of said tubes having a service valve at its free end adapted to normally close said tubes to maintain a pressure in said reservoir and to be quickly attached to a tire tube for inflating or deflating the same, an adjustable relief valve regulated to release pressure in said reservoir when a predetermined pressure is obtained therein and a base secured to said reservoir and extending therebelow to support said apparatus in an upright position.

1,751,971. PROCESS FOR PRODUCING ELECTRIC COILS. MARSHALL BARNUM, New Haven, Conn., assignor to The Acme Wire Company, New Haven, Conn., a Corporation. Filed Oct. 11, 1929. Serial No. 398,873. 2 Claims. (Cl. 175—2.)



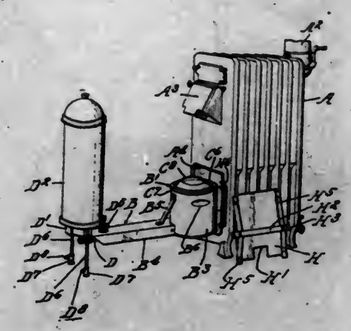
1. A process for the manufacture of electric coils of the type comprising a fibrous absorbent core-tube and a coil of wire thereon, consisting in treating the core-tube prior to the winding of the wire thereon with a liquid having the characteristic, when solidified, of being substantially impervious to hot impregnating liquids, thereafter winding a coil of wire upon the core-tube so previously treated and then treating the core-tube and coil as a unit with a hot impregnating liquid; whereby during the latter treatment, the said core-tube is shielded from the softening and weakening effects of the hot impregnating liquid and the distortion of the unit avoided.

1,751,972. HOSPITAL SIGNALING SYSTEM. BORNETT L. BOBROFF, Milwaukee, Wis. Filed Nov. 17, 1924. Serial No. 750,302. 5 Claims. (Cl. 177—337.)



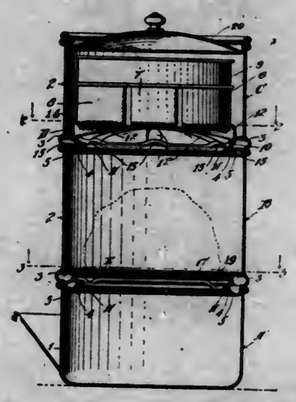
5. In a signaling system, the combination of signaling means for displaying any one of a plurality of cyclically-arranged want signals including an "attendant" signal to indicate to a nurse a want of a patient, means controlled by the patient for producing any one of said signals in a succession, and means for producing an attendant signal more frequently than the others to permit the rapid production of said attendant signal.

1,751,973. CLOSURE FOR USE WITH BURNER UNITS. JAMES L. BREESE, Jr., Chicago, Ill., assignor to Oil Devices Corporation, Chicago, Ill., a Corporation of Illinois. Original application filed Nov. 17, 1927, Serial No. 233,787. Divided and this application filed Mar. 14, 1928. Serial No. 261,465. 2 Claims. (Cl. 126—190.)



1. A closure for the door opening to the ash pit of a furnace comprising a free closure plate shaped to permit the passage of a fuel conduit and closely fitting the same and adapted to be applied over the said opening, and hinged means arranged to yieldingly hold the closure plate in place, movable independently of the plate and arranged to be swung into holding engagement therewith after the same has been applied.

1,751,974. COOKING APPARATUS. HENRY BRUCKER, Maplewood, N. J. Filed Oct. 19, 1928. Serial No. 313,429. 2 Claims. (Cl. 53—2.)

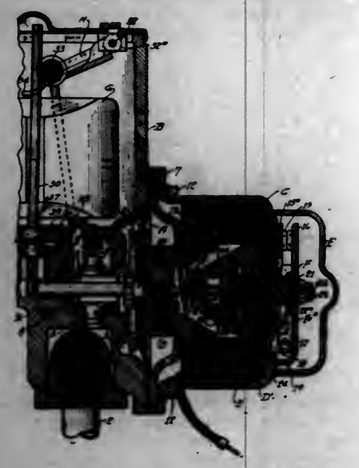


1. A cooking apparatus comprising a boiler, a steaming compartment arranged in superposed relation thereon, and comprising a tubular casing having an inturned perforated annular flange, a rack for material to be steamed removably mounted on said flange and consisting of a plate concavo-convex in cross-section with its concave side at the bottom and having upstanding projections in a common horizontal plane on its convex side to support said material, and a cover for said compartment having its inner side concave.

1,751,975. ELECTRICALLY-OPERATED FUEL PUMP FOR INTERNAL-COMBUSTION ENGINES. WILLIAM C. CARTER, Flint, Mich. Filed July 24, 1924. Serial No. 728,051. 15 Claims. (Cl. 172—126.)

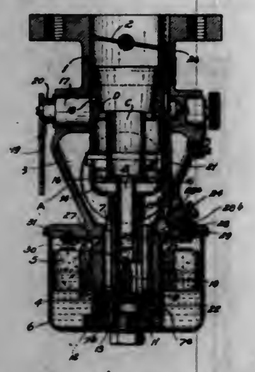
1. In an electrically-operated pumping apparatus, a solenoid provided with a reciprocating core, contacts in

the circuit used to energize the solenoid, and means for utilizing the magnetic force produced in the solenoid for holding said contacts closed during the stroke of the core



of the solenoid in one direction, and to effect the separation of said contacts with a quick break at the end of the said stroke of said coil.

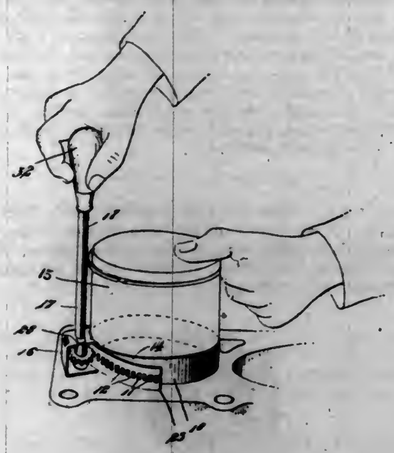
1,751,976. CARBURETOR. WILLIAM C. CARTER, Flint, Mich. Filed Feb. 18, 1928. Serial No. 255,313. 5 Claims. (Cl. 261—45.)



1. A carburetor provided with an accelerating well, a tubular member projecting upwardly through said well, substantially vertically-disposed slots in the lower end portion of said member, projecting upwardly from the bottom of the well and terminating at a point above the normal level of the fuel in the well, whereby air and fuel can pass simultaneously from the well into said tubular member, a fuel supplying device arranged inside of said tubular member, a suction amplifier associated with said fuel supplying device for increasing the velocity of the air flowing from said well into said tubular member at one stage of the cycle of operations of the carburetor, and a passageway for establishing communication between said well and the float chamber above the level of the fuel in said chamber.

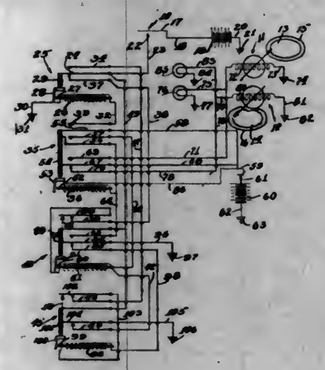
1,751,977. PISTON-RING COMPRESSOR. JOHN F. CAVANAGH, Providence, R. I. Filed Feb. 25, 1928. Serial No. 256,942. 6 Claims. (Cl. 29—86.4.)

1. A piston ring compressing tool comprising a band of a length greater than the circumference of a piston, an operating shaft, means attached to one portion of the band for mounting said shaft in a position parallel to the axis



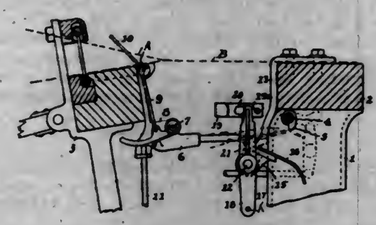
of the piston to be encircled, toothed means keyed to said shaft and formations on said band to be engaged thereby for moving the same to contracted or expanded position.

1,751,978. SWITCHING RELAY SYSTEM. RAYMOND T. CLOUD, Chicago, Ill., assignor to Orchestraphone Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 4, 1928. Serial No. 252,024. 6 Claims. (Cl. 175—320.)



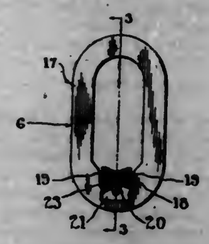
4. In an electrical switching system, electrical energy means, a pair of current operated devices adapted to be alternately connected to said means, a plurality of electrical relays, each including an electromagnetic coil associated with said devices and said energy means, the coil of one of said relays being adapted when energized to cause the energization of the coils of the other relays, an additional electrical relay including an electromagnetic coil adapted when energized to cause the de-energization of the electromagnetic coils of the other relays, and a switch for alternately operating said plurality of relays and said additional relay so as to cause said relays to alternately connect the energy means to said pair of devices, whereby said devices are alternately energized, said coil of the additional relay being adapted when energized to cause said above mentioned relay coil of said relays to become de-energized, whereby the other relay coils of said plurality of relays are also de-energized.

1,751,979. STOPPING MECHANISM FOR LOOMS. WILLIAM CRUTCHLOW, Fullerton, Pa. Filed Mar. 22, 1929. Serial No. 349,056. 8 Claims. (Cl. 139—340.)



1. The combination of the fixed structure of a loom, a stopping member movable therein to cause stopping of the loom, a reciprocating lay-structure, a device to engage said member and thus move the same movable with the lay-structure and also shiftable thereon into position to engage said member, and means, controlled from the advancing sheet of warp and woven fabric, to thus cause said devices to shift when said sheet has advanced to predetermined extent.

1,751,980. LOOP BEARING. ANDREW W. DEAN, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed Aug. 15, 1927. Serial No. 213,105. 9 Claims. (Cl. (308—2.)



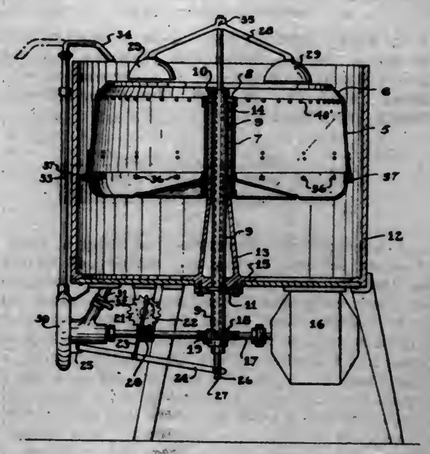
1. A loop bearing for scales comprising a loop member and a bearing block, spaced from the sides of said loop member to permit lateral oscillation of said bearing block seated on said loop member, said bearing block having a groove in one surface thereof and a plurality of legs extending from the opposite surface, said legs straddling said loop member.

1,751,981. CONTACT PLUG. HENDRIK DE JONG, DIRK LELY, Jr., and RICHARD SHEPHERD, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven. Filed May 31, 1924. Serial No. 716,996, and in the Netherlands June 9, 1923. 12 Claims. (Cl. 173—361.)



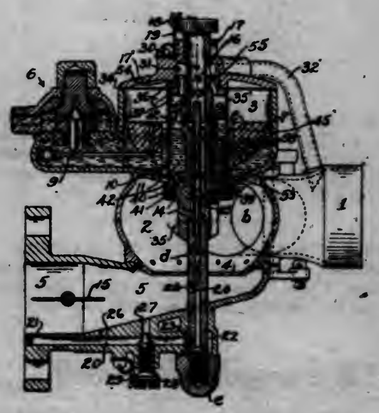
1. An electric contact plug having contact pins consisting of two or more resilient solid parts disposed against each other, the ends of said parts being embedded in the insulating material and joined together forming a spliced ring at the point of joining.

1,751,982. WASHING AND DRYING MACHINE. GEORGE W. DUNHAM, Utica, N. Y., assignor to Whirldry Corporation, Utica, N. Y., a Corporation of New York. Filed Nov. 15, 1924. Serial No. 750,035. 5 Claims. (Cl. 210—63.)



1. In a washing machine, a clothes receptacle having a number of drainage outlets in the side of the same, spring strips secured to the receptacle, closures carried by said spring strips over the openings and means for rotating the receptacle to swing the closures open against the tension of the spring supporting strips.

1,751,983. CARBURETOR. ROY F. ENSIGN, South Pasadena, Calif., assignor to Ensign Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 6, 1923. Serial No. 623,251. 2 Claims. (Cl. 261—50.)



1. In a carburetor having a fuel supply chamber and a mixing chamber, an accelerating well adapted to accumulate fuel by gravity from said fuel supply chamber, a delivery passage to deliver fuel from said accelerating well to the mixing chamber, a filling passage having an inlet submerged below the level of the fuel in the fuel supply chamber and a passage connecting said filling passage below its normal fuel level with said accelerating well; means to apply a depression upon the surface of the fuel in the fuel supply chamber, and means connecting said accelerating well and filling passage with the

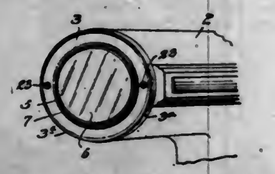
atmosphere, whereby the atmospheric pressure forces fuel through said delivery passage from said accelerating well, and into said fuel supply chamber from said filling passage, when depression is applied to the delivery passage and to said supply chamber.

1,751,984. REFLECTOR. SVEN AUGUST ESKILSON, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 30, 1926. Serial No. 157,964. 3 Claims. (Cl. 88—1.)



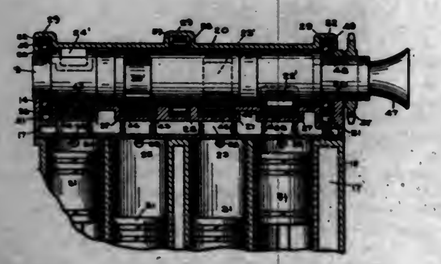
1. A light reflector structure comprising a sheet of transparent material having the capacity of refracting light, the said sheet having a plurality of contiguously related projecting spherical surfaces of hexagonal shape, upon its opposite sides, one of the said sides constituting the front surface of the sheet upon which the light rays impinge and the other of said sides constituting the rear surface from which the said rays are reflected, the said spherical surfaces being arranged in pairs in oppositely disposed relation to each other, the surfaces of the respective pairs having a common center, and means for rendering the rear spherical surfaces light reflecting, and said sheet of transparent material having a rim, the rear edge of which projects beyond a plane tangent to the said rear spherical surfaces.

1,751,985. END ASSEMBLY FOR DRUM-SCALE CYLINDERS. ANDREW W. FERGUSON, Latrobe, Pa., assignor to Lincoln Scale Corporation, Latrobe, Pa., a Corporation of Delaware. Filed Jan. 7, 1929. Serial No. 330,725. 5 Claims. (Cl. 45—18.)



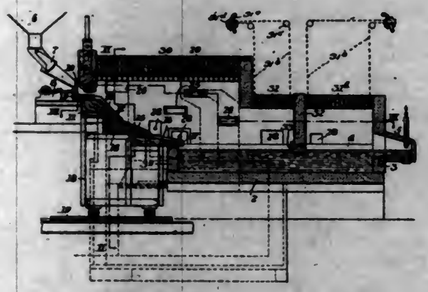
1. An assembly for a drum scale cylinder, which comprises a ring, a spring for supporting a mirror in said ring, means for securing said spring to said ring, and means cooperating with said first-mentioned means for connecting the ring and cylinder.

1,751,986. ROTARY VALVE MECHANISM. LOUIS FIESCHER, Winner, S. Dak., assignor of one-half to Morris Levey, Omaha, Nebr. Filed June 10, 1929. Serial No. 369,635. 7 Claims. (Cl. 123—50.)



1. In a rotary valve for internal combustion engines, a cylinder-head above the cylinders having an elongated valve-seat provided longitudinally with gas intake ports to the cylinders and exhaust outlet ports from the cylinders and provided longitudinally with depressions, a hollow valve revolubly mounted on the valve-seat and having pockets opening on its periphery for registering with the ports of the valve-seat, a cap mounted on the cylinder head for covering the valve, conduits for conducting lubricants to the depressions of the valve-seat, conduits for conducting lubricants from said depression, and a plurality of rollers in said depressions each engaging said valve.

1,751,987. METHOD AND APPARATUS FOR MELTING GLASS AND THE LIKE. ROBERT L. FRINK, Lancaster, Ohio. Filed Oct. 8, 1926. Serial No. 140,273. 16 Claims. (Cl. 49—54.)



3. The method of making molten glass-like material which includes subjecting constituent material to a melting temperature while maintaining it in a relatively thin and spread out condition, collecting the melted material in a pool, and controlling the temperature of the molten material in the pool by regulating the rate of heat dissipation.

8. Apparatus for making molten glass-like material including a relatively shallow refractory support adapted to receive constituent material, means for melting material on the support, and a receiver for the molten glass, the support and the receiver lying in a furnace enclosure, the support being mounted on a supporting carriage so as to be bodily removable therefrom, the support being made of a material adapted to withstand sudden temperature changes.

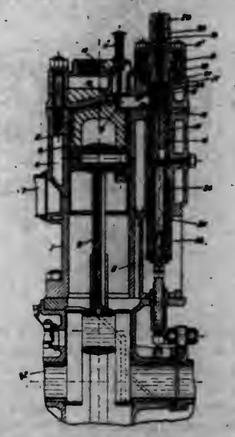
15. Apparatus for making molten glass-like material including a refractory support with a portion adapted to receive constituent materials and another inclined portion over which the material may pass while in process of melting, the last mentioned portion being inclined and of a substantially continuous character, the last mentioned portion being made up of blocks in over-lapping relationship, different blocks having their faces inclined in different amounts.

1,751,988. ADHESIVE. HARRY F. GARDNER, Buffalo, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation. Filed Mar. 31, 1922. Serial No. 548,540. 1 Claim. (Cl. 87—17.)

An adhesive for the purpose described, consisting of a mixture of sodium silicate of approximately 41° Baumé, 1.8 pounds of fibrous talc per gallon of silicate, and brine of approximately 20 Baumé, the quantity of brine being approximately 25% by volume of the silicate.

1,751,989. MEANS FOR FEEDING FUEL TO AN INTERNAL-COMBUSTION ENGINE OF THE HIGH-COMPRESSION TYPE. WALDO G. GERNANDT, South Bend, Ind., assignor to Gernandt Motor Corporation, Chicago, Ill. Filed Oct. 29, 1924. Serial No. 746,545. 4 Claims. (Cl. 123—33.)

1. In an internal combustion engine having a main cylinder and a piston therein, means for feeding fuel to said cylinder including a compression chamber having a plunger therein with means for actuating said plunger in proper time with respect to said piston, said plunger having a longitudinal passage and a cross bore leading from said passage to the periphery of said plunger, said engine having a single passage-way which is in alignment with said cross bore in the plunger when the plunger



is at the end of its compression stroke, and means including said single passage-way in the engine for trapping products of combustion in the compression chamber when the plunger is at substantially the end of its non-compression stroke, and means leading into the compression chamber from the end opposite the plunger for passing the fuel into the upper end of said compression chamber at the proper time.

1,751,990. SHOE. JAMES F. GILKERSON, Stillwater, Minn. Filed Aug. 5, 1929. Serial No. 383,610. 8 Claims. (Cl. 36—17.)



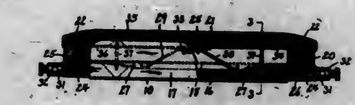
1. In a Goodyear welt shoe having a sewed heel seat with the usual welt, inner and outer soles, a spring heel construction interposed between the inner and the outer soles comprising a soft rubber member providing a spring heel portion, and a stitch-receiving marginal frame member of relatively stiffer material surrounding and secured to the outer edge portion of said spring heel portion and extending beneath the welt.

1,751,991. CUSHION SHOE. JAMES F. GILKERSON, Milwaukee, Wis. Filed Sept. 3, 1929. Serial No. 390,181. 4 Claims. (Cl. 36—17.)



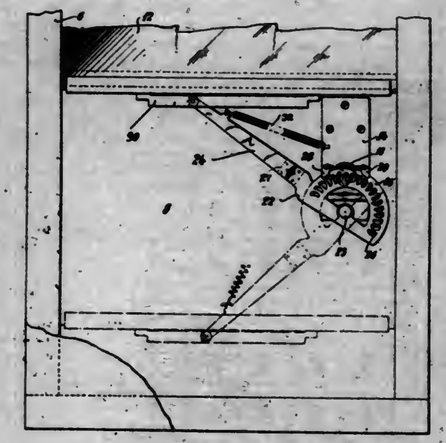
1. In a Goodyear welt shoe having a sewed heel seat, the combination with the inner sole, the welt, the inseam ridge and the outer sole, of a cushion sole interposed between the inner and outer sole comprising a soft rubber member having a cushion portion extending under the insole between the inseam ridges of the heel and shank of the shoe and secured thereto and having a heel portion extending under the inseam ridge, stitching securing the welt and outer sole directly together at the outer edge of the heel seat portion of the shoe, a heel, and fastening means for said heel attached to said outer sole.

1,751,992. ELECTRIC SWITCH FOR TOY ELECTRIC RAILWAYS. AARON H. GILL, West Haven, Conn. Filed Dec. 19, 1928. Serial No. 327,071. 6 Claims. (Cl. 246—254.)



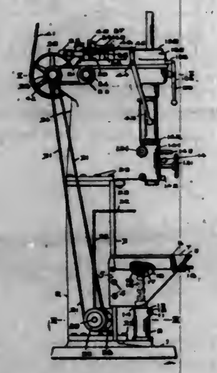
1. An electric switch for toy electric railways comprising a saddle-member adapted to rest upon and straddle a charged rail; two plates respectively located upon the opposite sides of the longitudinal center of the said saddle-member and supported thereby in position to be engaged by the shoe of a toy electric train, one of the said plates being insulated from the said saddle-member and adapted to be electrically connected to the third-rail by the engagement with it of the said shoe.

1,751,993. WINDOW REGULATOR. BERTRAM J. GOLDSMITH and EMIL KOEB, New York, and AMBROSIUS BRIECHLE, Brooklyn, N. Y., assignors, by mesne assignments, to The English & Mersick Company, New Haven, Conn., a Corporation of Connecticut. Filed May 28, 1925. Serial No. 33,376. 3 Claims. (Cl. 268—126.)



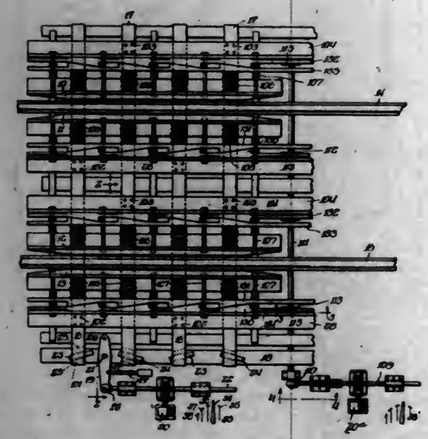
1. In a window-regulator, the combination with a reciprocating window and a guide-structure therefor; of a rotatable operator mounted for rotation in a plane substantially parallel with the said window; and driving-connections interposed between the said window and the said operator for effecting the movement of the former by the latter, and including a laterally-yielding arm mounted for rotation about an axis obliquely disposed with respect to the axis of the said operator and with respect to the plane of the said window.

1,751,994. NARROW-FRAME DRILL PRESS. GEORGE E. HALLENBECK, Toledo, Ohio, assignor to Baker Brothers, Inc., Toledo, Ohio, a Corporation of Ohio. Filed July 20, 1921. Serial No. 486,041. 15 Claims. (Cl. 77—5.)



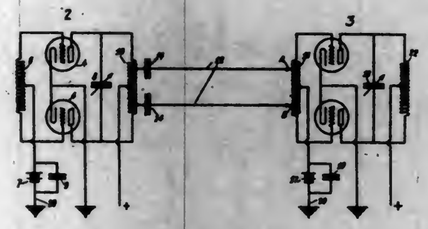
1. A machine tool embodying a main frame including a work table, a spindle opposing said work table and carried by the frame, a drive for the spindle including a shaft extending rearwardly in the frame from the spindle, a second shaft extending at a right angle to and approximately in the plane of the shaft from the spindle, a drive pulley on the second shaft, said spindle carrying frame providing bearings for the second shaft one on each side of the pulley, and transmission connection to the first shaft from the second shaft embodying a third shaft parallel to the second shaft, bevel gear connection between the first and third shafts and spur gear connection between the third and second shafts.

1,751,995. TRACK-BRAKE ARRANGEMENT AND CONTROL MEANS THEREFOR. GEORGE HANNAUER, Calumet City, Ill., and EDGAR M. WILCOX, Hammond, Ind., assignors to Hannauer Car Retarder Company, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1925. Serial No. 30,434. 25 Claims. (Cl. 188—62.)



1. Track brake apparatus for railroads comprising retarding means, main actuating means for said retarding means, and supplementary means for actuating said retarding means.

1,751,996. COUPLING. CLARENCE W. HANSELL, Rocky Point, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 18, 1927. Serial No. 161,770. 7 Claims. (Cl. 250—17.)



1. In energy transformation in electron emission tubes, the method which includes increasing the separation between stages to reduce interaction between, and improve the accessibility of the successive electron emission tube stages, and reducing the coupling losses by joining them by direct coupling, and so adjusting the coupling points at the succeeding stage that the impedance between said coupling points equals the characteristic impedance of the direct coupling means.

1,751,997. JAR-REIN SOCKET. FRANK J. HINDERLITER, Tulsa, Okla. Filed Oct. 19, 1927. Serial No. 227,197. 3 Claims. (Cl. 294—96.)



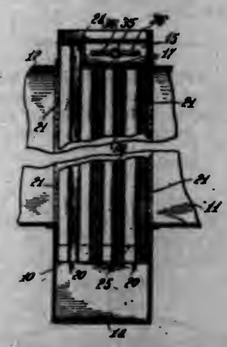
1. In combination, in a fishing tool of the class described, a body member, a downwardly extending element connected to said body member, said element having concave sides shaped to receive the reins of a broken jar in a well, gripping means carried by said element for engaging said reins, whereby the broken jar may be elevated from the well, and a guide tube disposed over said element and connected to said member adapted to fit over said reins and to align them with the concave sides of said element.

1,751,998. COMBINATION TAP AND DIE FISHING TOOL. FRANK J. HINDERLITER, Tulsa, Okla. Filed Oct. 22, 1928. Serial No. 314,060. 8 Claims. (Cl. 294—86.)



1. In combination in a fishing tool, a body having a tubular portion, said tubular portion being internally threaded to form a die, and an element extending into said tubular portion from said body and having its outer surface threaded to form a tap.

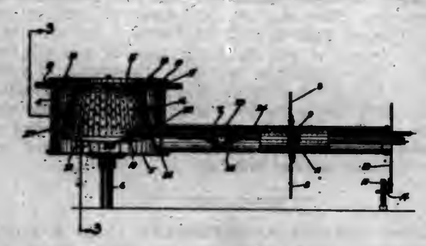
1,751,999. APPARATUS FOR FILTERING AIR. JOHN C. HINES, Chicago, Ill. Filed May 26, 1927. Serial No. 194,377. 1 Claim. (Cl. 183—28.)



Air filtering apparatus comprising a filtering chamber; an oil sump at the bottom of said chamber; an oil trough at the top of said chamber, said oil trough being provided with a plurality of slots arranged in zig-zag form; a plurality of filter plates in zig-zag form arranged in said filter chamber in substantially parallel relationship, said plates being provided at their tops with lugs engaging said slots but permitting the free flow of oil through said slots and over said plates, the lower ends of said plates being immersed in oil in said oil sump; means for passing air transversely through said filter chamber; back-turned flanges on said plates serving as barriers to prevent the oil on said plates from being entrained with the air current and carried transversely off said plates, and means for circulating oil between said sump and said trough.

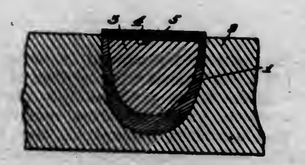
1,752,000. LIQUID-FUEL BURNER. WILLIAM O. HORNE, Minneapolis, Minn. Filed Aug. 19, 1925. Serial No. 51,175. 6 Claims. (Cl. 158—92.)

1. A liquid fuel burner including a casing, an air supply trunk connected therewith, a fuel vaporizing member mounted within said casing, a fuel feed pipe and an over-flow pipe connected with said member, said vaporizing



member having an annular groove exteriorly thereof communicating with said over-flow pipe to receive and conduct the over-flow fuel from said member in case of ignition.

1,752,001. METHOD OF MAKING A CHOCOLATE-COVERED CONFECTION HAVING A LIQUID MASS THEREIN. WENZEL HORRA, Berlin-Tempelhof, Germany, assignor to the Firm: Sarotti Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Jan. 29, 1929. Serial No. 335,927. 2 Claims. (Cl. 107—54.)



1. A method of making an article of candy comprising a chocolate shell having a liquid mass which consists in shaking a mold containing molten chocolate while said mold is held with its opening upwards, permitting part of the liquid chocolate to flow out of the mold, filling the chocolate shell thus formed with the desired liquid mass, sprinkling heated chocolate on the top of said liquid mass to form a preliminary cover, and then forming a second cover of chocolate on the rim of said chocolate shell.

1,752,002. SKYLIGHT. LOUIS ISGUR, Boston, Mass. Filed July 10, 1928. Serial No. 291,623. 2 Claims. (Cl. 108—16.)

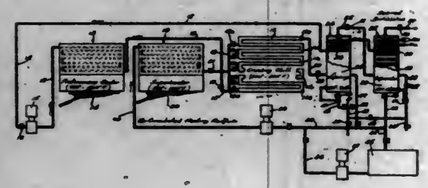


1. In a skylight structure, the combination of glass members having adjacent edges separated by a space, an underlying support, a gutter member superimposed upon said support and extending downwardly and inwardly on both sides to embrace said support, a clip superimposed upon said gutter member and extending downwardly and inwardly on both sides to embrace said support and part of said gutter member, a stud secured to said clip and extending upwardly through said space, and means cooperating with said stud to hold said glass members in place.

1,752,003. PROCESS FOR THE MANUFACTURE OF YEAST. KAI ALEXANDER JACOBSEN, Copenhagen, Denmark, assignor, by mesne assignments, to Standard Brands Incorporated, Dover, Del., a Corporation of Delaware. Filed May 28, 1928, Serial No. 281,363, and in Denmark June 8, 1927. 6 Claims. (Cl. 195—20.)

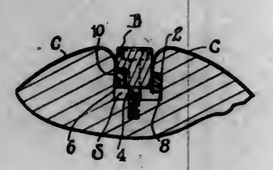
1. A method of manufacturing yeast by the aeration method, which comprises initiating propagation of yeast in a dilute nutrient solution with aeration, substantially continuously adding thereto a more concentrated nutrient solution, and at about the beginning of each cessation of budding increasing the addition of nutrients until the yeast is again actively budding.

1,752,004. OIL-CRACKING PROCESS. JOHN B. JAQUA, Alhambra, Calif. Filed Nov. 26, 1926. Serial No. 150,762. 19 Claims. (Cl. 196—47.)



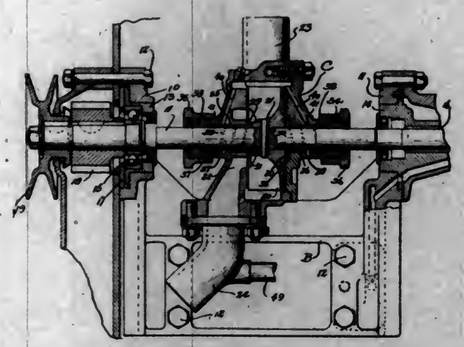
1. A method of cracking mineral oil which comprises: heating a fluent heat-transferring medium in the form of a relatively stable oil to a temperature above the temperature at which, under the given conditions of pressure, the first-mentioned mineral oil may be cracked; and advancing said medium, while so heated, into direct contact with said first-mentioned mineral oil and thence, after a sufficient time interval to permit a cracking reaction, at the resultant temperature, into a region of less pressure, the heat in the relatively stable oil being such as to obviate other application of heat, subsequently to said contact, to said first-mentioned oil, for the desired cracking effect.

1,752,005. COVERING FOR PLATER ROLLS. JAMES T. JOHNSTON, Holyoke, Mass., assignor to American Writing Paper Company, Holyoke, Mass., a Corporation of Delaware. Filed July 13, 1928. Serial No. 292,551. 7 Claims. (Cl. 92—47.)



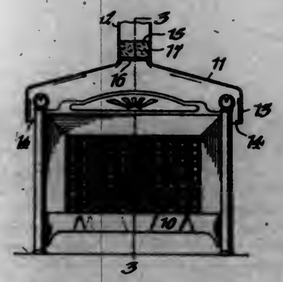
1. A roll and removable covering therefor in combination with means for securing them together comprising, a shoulder extending longitudinally of said roll, reinforcing bars at opposite ends of said covering one of which is adapted to engage beneath said shoulder and a clamp bar movable radially of said roll for engaging the other of said bars of the covering and drawing said covering tightly around said roll.

1,752,006. PUMP. LEWIS P. KALB, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Oct. 8, 1927. Serial No. 224,809. 7 Claims. (Cl. 103—103.)



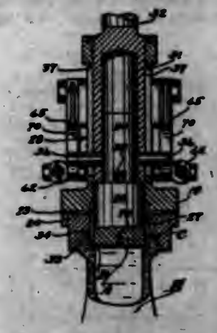
1. A pump comprising a drive shaft, spaced aligned bearings rotatably supporting said shaft, an impeller fixed to the drive shaft intermediate said bearings, a pump housing surrounding said impeller, said pump housing being constructed and arranged so as to float on said shaft relative to said shaft bearing.

1,752,007. ATTACHMENT FOR GAS HEATERS. CHARLES L. KLINE, Buffalo, N. Y., assignor to Henry B. HARRINGTON, Buffalo, N. Y. Filed July 21, 1928. Serial No. 294,387. 7 Claims. (Cl. 126—92.)



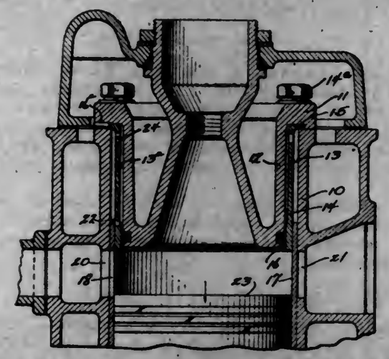
7. In a gas heater of the character described, the combination of a chambered member applied to the heater in spaced relation thereto to provide an air intake passage, and a catalyzing agent contained in the chamber of said member and with which the products of combustion and the oxygen of the air admitted through said passage are adapted to intimately contact.

1,752,008. BOTTLE-CAPPING MACHINE. VITALIS M. KLOSS, Minneapolis, Minn. Filed Nov. 17, 1928. Serial No. 320,112. 16 Claims. Cl. 226—92.)



1. In a bottle capping machine, a cap applying device, folding means for forming a rib on a cap blank to complete the formation of a cap, and feeding means for feeding a cap blank to the folding means and for feeding a cap from the folding means to the cap applying device.

1,752,009. INTERNAL-COMBUSTION ENGINE. OSCAR C. KREIS, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed June 15, 1928. Serial No. 285,609. 18 Claims. (Cl. 123—81.)



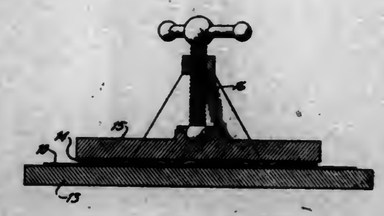
1. In an internal combustion engine, a cylinder, a cylinder head depending within the cylinder, sleeve valve means working between the cylinder and depending cylinder head portion, means intermediate the cylinder and depending cylinder head portion accommodating itself to movement of the sleeve valve, and means preventing accumulation of deposits at one side of the first said means.

1,752,010. TARGET TOWING AND RELEASING DEVICE. WILLIAM ANTHONY LAMKEY, Dearborn, Mich. Filed May 22, 1928, Serial No. 279,823, and in France Aug. 12, 1927. 14 Claims. (Cl. 124—16.)



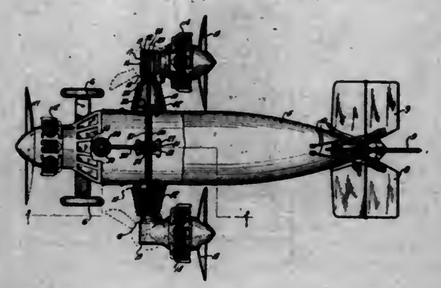
1. In combination, a cable having one end attached to a moving body, a target support, said target support being provided with a bore through which the cable is adapted to pass, a catch device mounted on the free end of said cable, and means carried by said catch device whereby the target support can be released.

1,752,011. METHOD OF TREATING PICTURES. THOMAS L. LATTER, Chicago, Ill. Filed Dec. 12, 1928. Serial No. 325,512. 6 Claims. (Cl. 41—24.)



1. The method of treating a picture or print consisting of applying an adhesive to the print, adjusting the adhesive to simulate the appearance of a desired texture, applying a powdered finishing material to the adhesive, and baking the finishing material to form a permanent gloss.

1,752,012. AEROPLANE. GEORGE Y. LAUCHIN, Milwaukee, Wis. Filed Apr. 21, 1928. Serial No. 271,945. 6 Claims. (Cl. 244—25.)



5. An aircraft having a body portion, a fixed source of liquid fuel supply in connection with said body, an engine mounted on said body and adjustable to various angles with respect thereto, a propeller driven by said engine, and coiled means for feeding liquid fuel from said fixed source of fuel supply to said engine in any adjusted position of said engine.

1,752,013. PIKE CONSTRUCTION. ELBERT C. LEACH, Oshkosh, Wis., assignor to Leach Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Apr. 13, 1928. Serial No. 269,727. 3 Claims. (Cl. 294—19.)

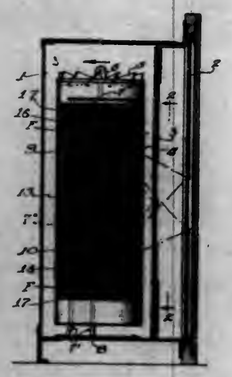
1. A pike for application to the end of a wooden pole, consisting of a one-piece metal member having a radially extending annular thrust flange, an elongated rear end portion which is considerably smaller in diameter than the flange and merges abruptly thereinto and is tapered at its extremity for forced fit insertion within an aperture in the end of a pole to a point where the flange is brought

into engagement with the end face of the pole, and an elongated front end portion which is also considerably



smaller in diameter than the flange and merges abruptly thereinto and is faced and tapered to present a work-engaging tip.

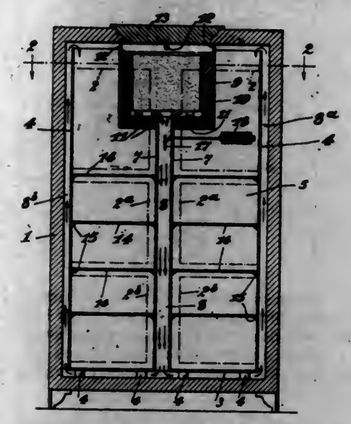
1,752,014. SHADOW-MOTION DISPLAY MEANS. AUBREY B. LEECH, Los Angeles, Calif. Filed Nov. 12, 1927. Serial No. 232,877. 3 Claims. (Cl. 40—40.)



1. An illuminated shadow motion display device to show diverse co-zonal movements simultaneously and comprising in combination a transparency receiving screen to receive and show the display matter, a vertically axled transparency rotor of figured design back of said screen, a pair of light producing elements disposed one above the other in said rotor, a light ray directing screen disposed between said receiving screen and said rotor, and a housing for said members, said ray directing screen having light transmitting parts corresponding respectively with and disposed convergently relative to said light producing elements to allocate the shadow display matter predeterminately at a common elevation on said receiving screen.

1,752,015. REFRIGERATING APPARATUS AND METHOD. JAMES W. MARTIN, Jr., Tuckahoe, N. Y., assignor, by mesne assignments, to Dryice Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed June 15, 1926. Serial No. 116,103. 24 Claims. (Cl. 62—92.)

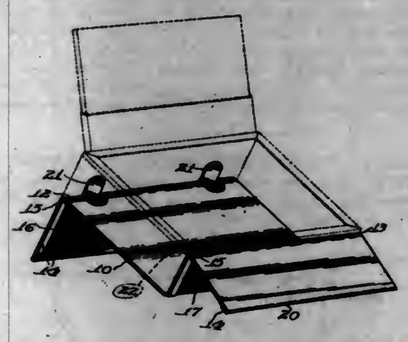
1. The method of refrigerating the interior of an insulated container, which includes evaporating therein a solid substance which evaporates without any intermediate liquid state, evolves hundreds of times its volume of gas much heavier than air, and which has its evaporation rate accelerated according to the percentage of air in bathing contact therewith; guiding and confining a circuit of downflow of the gas evaporated from said solid and upflow thereof through a counterbalancing column while conducting heat from refrigerated space into said gas and utilizing the upflow column as insulation for a wall or walls of said refrigerated space.



1,752,016. CATALYST FOR THE PRODUCTION OF ETHYLENE GLYCOLS AND ETHYLENE HYDROCARBONS. ALEXANDER T. MAXIMOFF, New York, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed May 18, 1926. Serial No. 109,961. 2 Claims. (Cl. 23—233.)

1. An improved reagent for the treatment of organic compounds, namely, an amalgam consisting solely of mercury, aluminum and a metal of the group consisting of zinc and cadmium.

1,752,017. DISPLAY STAND. MYER METZGER, Chicago, Ill. Filed June 7, 1926. Serial No. 114,090. 5 Claims. (Cl. 211—156.)



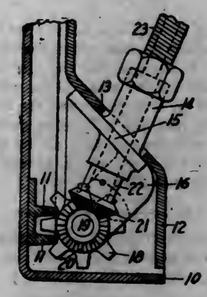
1. A stand of the character described embodying a body portion formed from a single piece of sheet material, portions of the body spaced from each other being bent in opposite directions, one of said portions extending upwardly and the other downwardly from the body, the latter said portion co-operating with the lower edge of the upwardly turned portion to support the body in an upwardly inclined position, another portion of the body adjacent the said downwardly bent portion forming a projecting portion extending above the upper surface of the body and spaced from and co-operating with the first recited upwardly turned portion to hold an article therebetween.

1,752,018. BALUSTRADE POST. ALBERT F. MILLER, Kansas City, Kans. Filed Aug. 24, 1928. Serial No. 301,766. 6 Claims. (Cl. 189—38.)



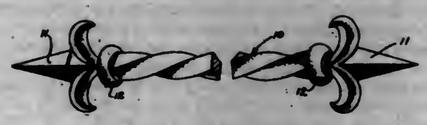
1. In a balustrade post, vertical side plates adjacent ones of which are disposed at an angle to each other, each plate along each longitudinal edge having a set of spaced inwardly extending arms which cross and alternate with the adjacent set of arms of the adjacent plate, and vertical corner locking bars at the inner sides of said plates and respectively embraced and held from lateral movement by the adjacent crossed arms of adjacent plates.

1,752,019. ODOMETER DRIVE. JOHN B. MILLS and FREDERICK O. GRAY, Dayton, Ohio, assignors to Ohmer Fare Register Company, Dayton, Ohio, a Corporation of New York. Filed June 28, 1926. Serial No. 118,957. 2 Claims. (Cl. 74—7.)



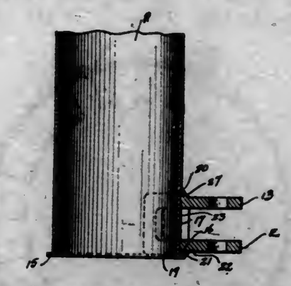
1. In a driving means a disk secured to a fixed part of an automobile, a bracket secured thereto, bearings extending at an angle to each other carried by said bracket, shafts mounted in said bearings, means operatably connecting said shafts, a brake drum, a spiral gear carried thereby, and means operatably connecting said gear to one of said shafts.

1,752,020. CONNECTION FOR DRAPERY RODS. PETER J. MITCHELS, Oakland, Calif. Filed May 16, 1928. Serial No. 278,282. 3 Claims. (Cl. 156—19.)



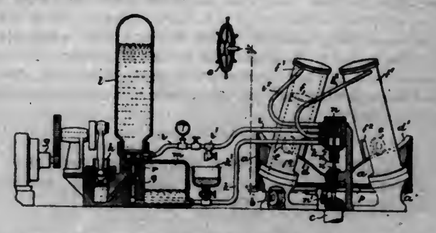
1. In combination with a twisted square drapery rod, an ornamental device adapted to be fitted to the end thereof, said device including a socket adapted to receive the end of the rod, means connecting said socket to said device permitting the socket to be turned relative to the device or relatively fixed thereto.

1,752,021. METHOD OF MANUFACTURE OF SLEEVE VALVES. ARCHIE MACPHAIL NIVEN, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Original application filed July 17, 1927, Serial No. 205,973. Divided and this application filed Aug. 23, 1928. Serial No. 301,444. 5 Claims. (Cl. 29—156.7.)



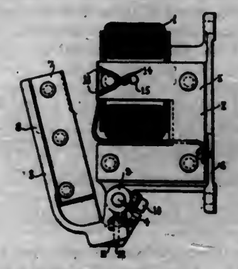
1. The method of manufacturing a sleeve valve provided with a driving lug for internal combustion engines consisting in deforming the sleeve by extending a portion thereof outwardly from the sleeve, and welding a portion of a sleeve driving lug to said outwardly extending sleeve portion.

1,752,022. MEANS FOR ACTUATING STEERING GEAR AND FOR ANALOGOUS PURPOSES. SIMON DOKK OLSEN, Walthamstow, England. Filed Jan. 12, 1925, Serial No. 1,908, and in Great Britain Jan. 24, 1924. 5 Claims. (Cl. 114—150.)



1. Means for operating ship's steering gear and for analogous purposes, comprising a shaft to which only a partial turn is to be given, a segmental cylindrical cam co-axially mounted on said shaft, such cam resting on one edge and having a V-shaped cam-like part at its other edge, stationary hydraulic rams exerting their thrusts on opposite sides of said recess, substantially as described.

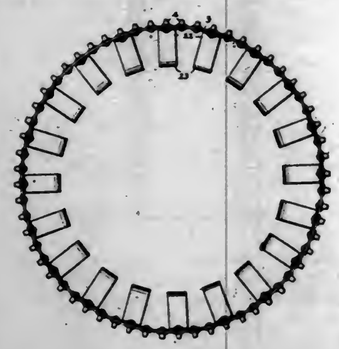
1,752,023. ALTERNATING-CURRENT ELECTROMAGNET. HORACE N. PACKARD, Wauwatosa, Wis., assignor, by mesne assignments, to The Cutler-Hammer, Inc., a Corporation of Delaware. Filed Feb. 11, 1924. Serial No. 691,897. 3 Claims. (Cl. 175—338.)



3. An alternating current electromagnet comprising field and armature members and a shading coil carried by one

of said members, said coil being formed of stranded wire having its end portions twisted together and connected by fusion at a substantial distance from the inner end of the twist.

1,752,024. ANTISKID DEVICE. FRED G. PARKER, Paterson, N. J. Filed Apr. 20, 1926, Serial No. 103,271. Renewed Jan. 13, 1928. 1 Claim. (Cl. 152—16.)



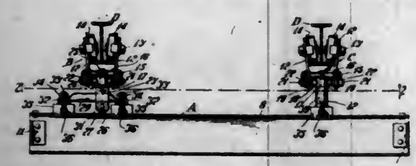
An endless vehicle wheel tire shoe including a stiff flexible band formed to approximately wholly embrace the tire and embodying a circumferential tread-portion and having a marginal portion normally assuming a position in cylindrical extension of said tread portion but yieldable radially inward, in combination with means to deform said marginal portion to a less diameter than the tread portion, whereby when the shoe is applied over a wheel whose tread said tread-portion closely fits and said means thereupon is made to contract the marginal portion to a less diameter than that of the wheel tread said shoe will be held against displacement off the wheel laterally thereof in one direction.

1,752,025. ELEVATOR INSTALLATION. EARL W. PETERSON, Chicago, Ill. Filed Jan. 8, 1929. Serial No. 331,037. 6 Claims. (Cl. 16—95.)



1. A closure for a door hanger installation, comprising a facing for the installation, brackets opposite the facing, and a cover plate detachably hooked to the facing and secured to the brackets.

1,752,026. CRANE. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed June 6, 1928. Serial No. 283,213. 7 Claims. (Cl. 105—163.)



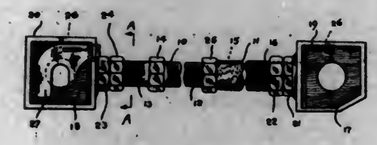
1. In a crane, the combination with two laterally spaced overhead tracks, of trolleys adapted to roll along said tracks, a beam, a depending swivel supporting one end portion of said beam on one of said trolleys, a depending swivel on the other trolley, a roller carried by said latter swivel, and a bridge member mounted on said beam and engaging said roller.

1,752,027. FISHING ROD. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 17, 1927. Serial No. 161,478. 11 Claims. (Cl. 43—22.)



1. A fishing rod having a handle, a reel seat above the handle, a reel having a cross plate resting upon the reel seat, a pair of bands surrounding the reel seat and adapted to enclose the ends of the cross plate, one of said bands being a split band, a bolt to secure the ends of the split band, and a finger grip, the bolt being passed through one end of the finger grip, that portion of the grip adjacent the bolt bearing against the rod and a noncircular surface on the grip bearing against the rod.

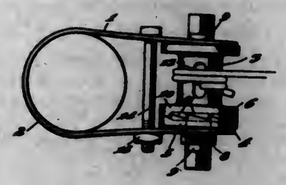
1,752,028. ADJUSTABLE PITMAN ROD. CHARLES ALEXANDER RITCHIE, D'Arcy, Saskatchewan, Canada. Filed May 31, 1928. Serial No. 281,810. 1 Claim. (Cl. 74—47.)



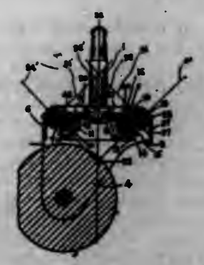
In an adjustable pitman rod having a bolt threaded at both ends and a nut positioned midway of its length; a tube threaded inside at one end to receive the said bolt and threaded outside at the opposite end; bearing housings; a nut welded to each of the bearing housings, one designed to receive the bolt, the other to receive the outer thread of the tube, and a plurality of check nuts to secure the bolt and tube, substantially as set forth.

1,752,029. WIRE STRETCHER. WILLIAM F. ROBERTSON, Cincinnati, Ohio. Filed Feb. 17, 1928. Serial No. 255,150. 7 Claims. (Cl. 256—42.)

1. A tightening device, comprising, a U-shaped frame, a ratchet element non-rotatably mounted in the outer end of one arm of the U-shaped frame, a spool having trunnions journalled within the ratchet element and the other arm of the U-shaped frame, concentrically disposed registering teeth formed on the respective adjacent faces of the spool and the ratchet element for preventing unwinding rotation of the spool, and the U-shaped frame having inherent spring tension therein compressing the arms thereof against the outer face of the spool and the outer face of the ratchet element for providing spring locking engagement of the teeth.

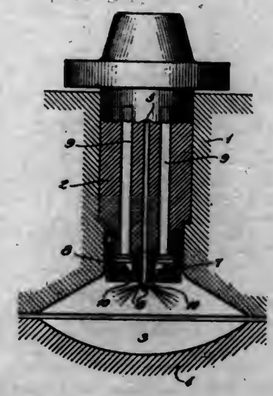


1,752,030. CASTER. MAYO E. ROE, Elyria, Ohio, assignor to The Colson Company, Elyria, Ohio, a Corporation of Ohio. Filed June 12, 1926. Serial No. 115,520. 3 Claims. (Cl. 16—21.)



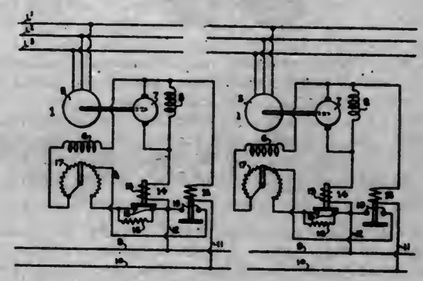
1. In a caster, the combination with a pair of superposed sheet metal disks joined at their central portions and extending divergingly in more remote portions, of a sheet metal caster fork element having a centrally perforated yoke, interposed between the diverging portions of said disks, the upper of said disks being folded to form an annular groove of substantially inverted V-form in transverse sections on its under surface, the lowermost disk being generally in the form of an inverted cup with divergent side walls and upturned outwardly extending rim portions to form an annular groove on the outer surface of the cup comprising upper surfaces of the said rim portion and adjacent outer surfaces of the divergent side walls; the side walls of the cup extending through the perforation in the yoke, the said interposed yoke portion being successively folded downwardly, upwardly and then downwardly in all radial sections proceeding inwardly from its border toward its central perforation to form a pair of concentric upper and lower bearing race grooves, of successively substantially V-form and inverted substantially V-form, radial sections, to cooperate with the grooves of the upper and lower disks, respectively, to retain separate sets of bearing balls in the said successive grooves.

1,752,031. INTERNAL-COMBUSTION ENGINE. CHARLES SCHAER, Langenthal, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 4, 1926, Serial No. 146,179, and in Switzerland Nov. 18, 1925. 2 Claims. (Cl. 123—32.)



1. The combination in an internal combustion engine of a fuel injection nozzle having a discharge orifice opening directly into the engine cylinder, a fluid chamber having an independent opening into the cylinder adjacent the nozzle and means for directing the outflow from said chamber in cleansing relationship to the discharge orifice.

1,752,032. SYSTEM OF POWER TRANSMISSION AND DISTRIBUTION. EDWIN W. SEEGER, Wauwatosa, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed July 13, 1928. Serial No. 292,484. 5 Claims. (Cl. 171—123.)

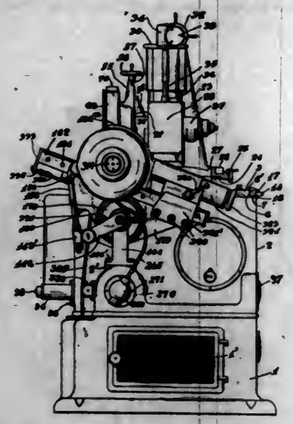


1. In combination, an alternating current system, a synchronous rotary transformer supplied from said system and delivering direct current, means responsive to variations in load on the direct current side to vary the excitation of said transformer on its alternating current side for regulation of the power factor of the altrenating current system, said means tending to reduce the excitation of said transformer under heavy load conditions on the direct current side and means to render the former means ineffective to so function when the load on the direct current side exceeds a given value.

1,752,033. METHOD AND APPARATUS FOR GENERATING GEAR TEETH. OLIVER G. SIMMONS, Lakewood, Ohio. Filed Mar. 31, 1926. Serial No. 98,791. 101 Claims. (Cl. 51—52.)

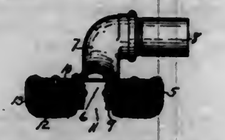
1. The herein described method of generating the faces of teeth of a gear shaped blank to an involute curve, which

comprises engaging the blank with a cutting element, oscillating the blank about its axis and simultaneously causing the same to move in a direction radial to its axis away from and toward the cutting element into and out of



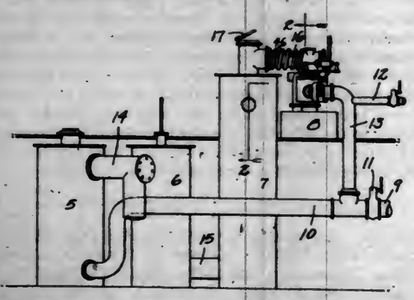
engagement therewith at a linear speed equal to the angular speed as measured on the circumference of a given circle, and operating the blank at increased speed during the entire portion of its movement in which it is out of contact with the cutting element.

1,752,034. PNEUMATIC CLEANING TOOL. IRA H. SPENCER, West Hartford, Conn., assignor to The Spencer Turbine Company, West Hartford, Conn., a Corporation of Connecticut. Filed Aug. 17, 1926. Serial No. 129,831. 5 Claims. (Cl. 15—158.)



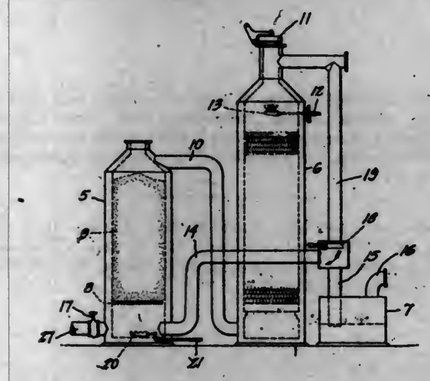
1. A pneumatic cleaning and polishing tool including a body having an air passage therethrough and means for attachment of an air conducting element thereto, and a polishing face composed of a comparatively firm polishing material and a comparatively flexible material, the latter comprising fibers extending in various directions across lines perpendicular to the plane of the face of the tool.

1,752,035. GAS MANUFACTURE. FRANK W. STEERE, Highland Park, Mich., assignor, by mesne assignments, to Semet-Solvay Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1924. Serial No. 739,289. 2 Claims. (Cl. 48—80.)



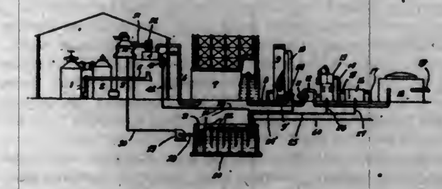
1. A water gas plant comprising a single generator, a single carburetor, a single superheater and wash box connected in series, a passage leading from the base of the generator to the wash box, an upwardly directed spray nozzle positioned within the superheater at substantially the top thereof, said nozzle having a pipe connection extending through the superheater wall, whereby said nozzle is positioned away from said superheated wall, and means for supplying water to said spray nozzle through said pipe connection, said water being generated into steam at substantially the top of said superheater for use during the back-run combustible gas-making cycle.

1,752,036. WATER-GAS MANUFACTURE. FRANK W. STEERE, Highland Park, Mich., assignor, by mesne assignments, to Semet-Solvay Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1924. Serial No. 757,399. 2 Claims. (Cl. 48—208.)



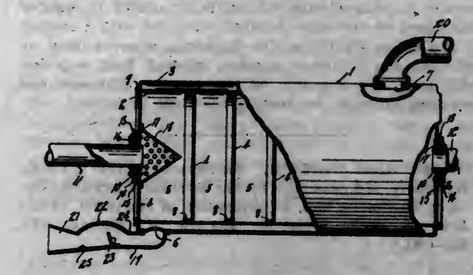
1. The process of manufacturing water gas in a two-shell set comprising a water gas generator having a bed of fuel therein and a superheater, the individual units being located in separate and detached shells, a washbox connected to the superheater and a conduit leading from substantially the base of the generator to the washbox, which involves passing a free oxygen-containing gas through the fuel bed in the generator, passing the resultant blast gases from the generator into and through the superheater; introducing steam into the base of the fuel bed and passing the water gas thus formed from the generator into substantially the base of the superheater, through the superheater into the washbox, and passing steam down through the superheater and from substantially the base of the superheater directly into substantially the top of the generator and down through the fuel bed therein, thereby generating water gas, and passing said water gas through the lower portion of said fuel bed into and through said conduit and into said washbox.

1,752,037. GAS MANUFACTURE. FRANK W. STEERE, Highland Park, Mich., assignor to Semet-Solvay Engineering Corporation, New York, N. Y., a Corporation of New York. Filed July 27, 1926. Serial No. 125,283. 3 Claims. (Cl. 48—208.)



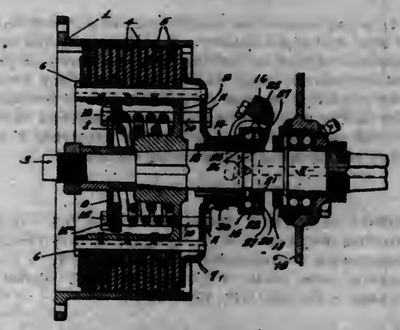
1. The process of disposing of effluent waste liquors in the manufacture of water gas in a plant involving a generator and heat regenerator, which comprises passing the effluent liquors into a decanter for the stratification of the liquor, passing the aqueous layer into the heat regenerator to volatilize it, and passing the volatiles through the heat regenerator and into the generator to produce water gas.

1,752,038. HEATER FOR AUTOMOBILES. JAMES J. SUNDAY, Detroit, Mich., assignor to James W. Kelch, Detroit, Mich. Filed Feb. 9, 1926. Serial No. 87,024. 2 Claims. (Cl. 257—241.)



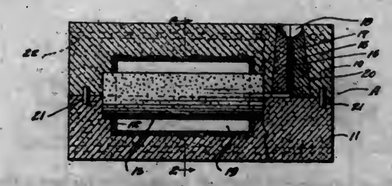
1. A heater for automobiles including a chamber for exhaust gases having an opening therein, an adapter for exhaust conduits having an opening in alignment with the opening in said chamber, means for detachably securing said adapter to said chamber including headed elements projecting outwardly from said chamber, and a deflector for said gases upon the inside of said chamber forming a receptacle surrounding the headed elements for preventing said securing means from falling or being pushed inside the chamber when the adapter is being adjusted.

1,752,039. FRICTION CLUTCH. HENRY W. SWEET, Syracuse, N. Y., assignor to The Brown Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed July 28, 1924. Serial No. 728,524. 1 Claim. (Cl. 192—69.)



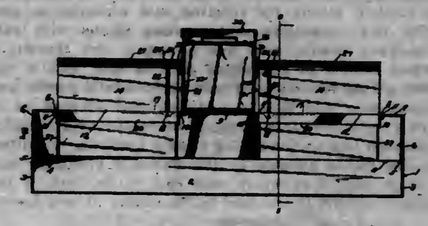
In a friction clutch, the combination of driving and driven elements having coacting friction means, one of said elements comprising a shaft arranged coaxially of the other element, an axially shiftable pressure plate for engaging said means and having a hub encircling the shaft, a main spring acting on the pressure plate for normally engaging said means, clutch release means for withdrawing the pressure plate against the action of the spring including a sleeve slidable along the shaft and having threaded engagement with said hub, the sleeve having a flange for turning it at its rear end, a throwout bearing mounted on the sleeve and abutting against said flange and a nut threading on the sleeve against the throw-out bearing for holding it against said flange.

1,752,040. MOLD. EZRA H. TRAUT, Detroit, Mich. Filed Apr. 2, 1928. Serial No. 266,602. 8 Claims. (Cl. 22—113.)



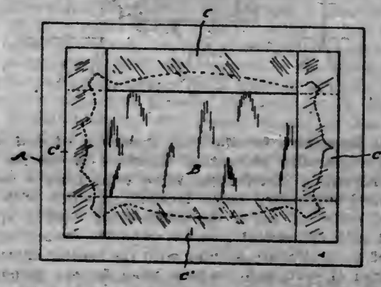
1. A mold of a permanent nature for use in casting articles from molten metal, said mold having a body portion of relatively coarse heat resisting porous material and a separable lining portion of relatively fine heat resisting porous material.

1,752,041. ANIMAL TRAP. STACY D. TRUMBO, Pittsburgh, Pa. Filed Dec. 13, 1926. Serial No. 154,482. 1 Claim. (Cl. 43—70.)



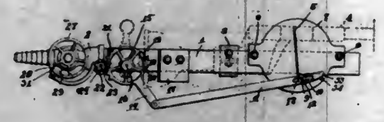
In a trap, the combination with a receptacle, a pair of tilting platforms over the receptacle, a pair of spaced opposed covers over the platforms, latch bars in the opposed ends of the covers and having notches therein, shafts journaled in the platforms, tripping plates associated with the platforms and fixed to the shafts, rods carried by the shafts and normally engaged in the notches to hold the platforms against tilting, the rods being releasable from the notches to permit tilting of the platforms upon actuation of the tripping plates.

1,752,042. PROCESS OF MANUFACTURING LEATHER. JOHN P. TOOLS, Detroit, Mich., assignor to Carl E. Schmidt & Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 15, 1928. Serial No. 326,354. 4 Claims. (Cl. 149—21.)



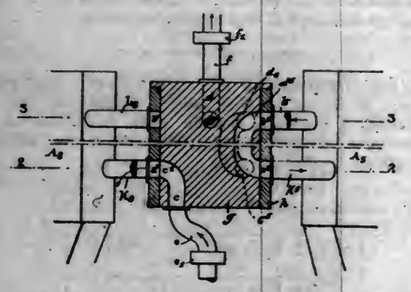
4. In a process of manufacturing leather the step which consists in setting out the wet skin upon a drying board, placing a strip of adhesive impregnated fabric so as to overlap the marginal portions of the skin and the board beyond the same to thereby firmly attach the skin to the board during the drying process.

1,752,043. SAFETY GAS COCK. WILLIAM VAHL, Rochester, N. Y. Filed Jan. 14, 1928, Serial No. 246,825. Renewed Jan. 13, 1930. 2 Claims. (Cl. 158—117.2.)



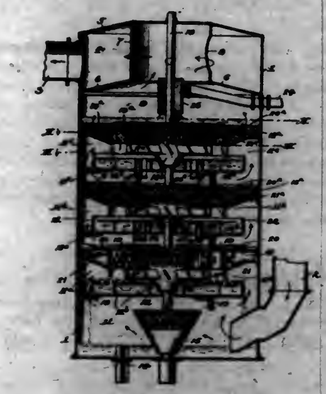
1. In an automatic shut-off mechanism for gas burners, the combination with a burner and a regulating valve, of a shut-off valve, a supporting frame supported by said burner, a vertical heating plate carried by said supporting frame at one end thereof and held on one side of the burner, a thermostatic needle mounted on the side of said vertical heating plate, a ratchet wheel carried by said shut-off valve, a pawl adapted to engage said ratchet wheel and hold said shut off valve in the open position, an eccentric adapted to engage said pawl and means for rotating said eccentric to rock said pawl and release said ratchet and said shut off valve, spring means adapted to operate said valve on the release of said ratchet, means for rotating said eccentric, a connecting link connecting said rotating means with said thermostatic needle, said link having a slot therein, a shoulder formed in the upper edge of said slot, a pin carried at the lower end of said thermostatic needle and engaging into said slot in said link and adapted to be moved in said slot into engagement behind said shoulder to pull said link on the flexing of said needle in one direction, and means adapted to automatically disengage said pin from said shoulder in said slot at the end of the movement of said link caused by the flexing of said needle.

1,752,044. APPARATUS FOR THE MANUFACTURE OF SMOKELESS FUEL. CHARLES VIEU and LÉON MOURGEON, Paris, France; said Vieu assignor to said Mourgeon and Compagnie des Mines de Vicoigne, Noeux & Drocourt, Paris, France. Filed June 22, 1926, Serial No. 117,851, and in France June 27, 1925. 3 Claims. (Cl. 202—99.)



1. An apparatus for the heat treatment of coal, comprising a plurality of heating chambers to contain coal to be heated, a distributing valve comprising a hollow cylindrical stationary outer member provided with two parallel series of ports, the ports being equally spaced around said cylindrical member, conduits connecting the ports of the stationary member with the heating chambers, one series of ports and conduits being for the purpose of conducting heating fluid to the chambers and the other series of ports and conduits being for the purpose of conducting heating fluid from the chambers, and a rotatable cylindrical inner member disposed within the stationary member, said rotatable member and stationary member having a common axis, said rotatable member having separate channels therein, each of the channels terminating at the opposite ends thereof in opening in the cylindrical surface of the rotatable member, the channel openings at one end of said channels being spaced to register with one series of ports in the stationary member and the channel openings at the opposite end of each channel being spaced to register with the other series of ports in the stationary member, a main inlet channel to conduct heating fluid into the rotatable member, the opposite opening thereof registering with one of the ports on the outer member connected with a conduit for conducting heating fluid to the chambers, and a main outlet channel to conduct fluid from the rotatable member, the opposite opening of said channel being spaced to register with a port on the outer member connected with a conduit for conducting fluid from the chambers, whereby upon rotation of the rotatable member, heating fluid may initially pass into any one of the heating chambers and then pass through the heating chambers in series.

1,752,045. GAS WASHER. FREDERICK HENRY WAGNER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed June 28, 1927. Serial No. 202,124. 12 Claims. (Cl. 261—91.)



1. In a gas washer, the combination of a casing having a gas inlet and a gas outlet; a liquid pumping and spraying element located within the casing; a series of plates extending inwardly from the wall of the casing forming a series of pockets open at their inner ends; a foraminous surface in the upper portion of the pockets and through which the gas passes; and means for supplying a wash liquid to the pumping and spraying element.

1,752,046. ELECTRIC COUPLING CIRCUITS. HORACE WHITTLE, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1927. Serial No. 181,530. 8 Claims. (Cl. 178—44.)



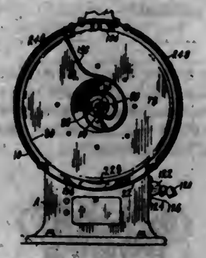
1. A circuit for coupling a line to a secondary circuit having a capacity reactance to transmit a wide band of frequencies, comprising a transformer having primary and secondary windings and leakage inductance, said leakage inductance being of such a value as to resonate with said capacity reactance near the upper limit of said band, and resistances in shunt, respectively, to said primary and secondary windings, and proportioned with respect to each other so as to give said coupling circuit a substantially flat transmission characteristic over said band.

1,752,047. FOOD SIEVE. HARRISON L. WIRT, Schenectady, N. Y. Filed Apr. 21, 1927. Serial No. 185,540. 4 Claims. (Cl. 146—176.)



1. The combination with a receptacle having a supporting ledge, of a flat self-supporting plate formed from relatively heavy sheet material adapted to be supported by said ledge, said plate having smooth surfaces and being provided with sharp edged holes to form a sieve through which food material may be forced, at least one open side of the plate being in the plane of the top of the receptacle whereby material on the plate may be operated upon with a straight edged tool.

1,752,048. AIR-SERVICE STATION. JOE C. WOODFORD, Bryan, Ohio, assignor to Service Station Equipment Company, Bryan, Ohio, a Corporation of Delaware. Filed July 5, 1927. Serial No. 203,301. 2 Claims. (Cl. 299—78.)



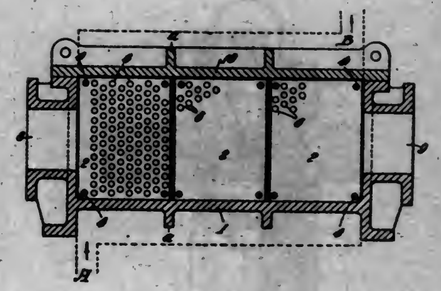
1. An air service station including a bracket, a hose reel revolubly mounted thereon, an air service hose wound on said reel, an air service line having an air tight connection with said hose at the center of the reel, a portion of said air service line being metallic tubing and being spirally arranged around such air tight connection whereby to preclude the rupturing of the connection upon movement of the connection relative to the air service line.

1,752,049. PRODUCTION OF HALOGEN SUBSTITUTION PRODUCTS OF OLEFINES. CHARLES O. YOUNG, Charleston, W. Va., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed Jan. 8, 1927. Serial No. 160,008. 3 Claims. (Cl. 260—165.)

1. The method of making mono-halogen substitution products of olefines which comprises heating an olefine dihalide under pressure with aqueous caustic alkali to a temperature above the boiling point of the dihalide.

1,752,050. REGENERATION OR PURIFICATION OF LUBRICATING OILS. HORACE JOHN YOUNG, Westminster, England, assignor of one-half to Swan, Hunter & Wigham Richardson Limited, Newcastle-upon-Tyne, England, an English Company. Filed Mar. 22, 1928, Serial No. 263,946, and in Great Britain Apr. 12, 1927. 8 Claims. (Cl. 196—16.)

1. A process for freeing used lubricating oil from corrosive impurities which consists in bringing the oil to be treated into intimate contact with a non-ferrous metallic substance reactive with the corrosive ingredients of the oil without producing reaction products having the same deleterious effects as those of the aforesaid corrosive ingredients.



1,752,051. SWIMMING APPLIANCE. PORUS J. YOUNG, Bomont, W. Va. Filed May 19, 1928. Serial No. 279,084. 1 Claim. (Cl. 9—18.)

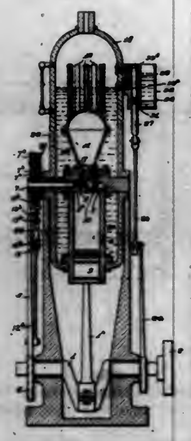


A swimming appliance of the class described comprising a float including a buoyant, relatively rigid horisontally disposed body having a concave upper side for disposal against the body of a user, means carried by the body for embracing the body of the user and holding the said buoyant body thereto, a rear vertical buoyant section connected with and supported by the buoyant body and having a rearwardly extending portion, a supporting bracket upon the under side of the rear vertical buoyant section inward of said extension, a bearing supported by the bracket for adjustment lengthwise with respect to the body, a propeller shaft mounted in the bearing, a propeller upon the shaft, a pedal crank shaft mounted in the bearing, the adjustment of the bearing providing for positioning of the pedal crank shaft with respect to the upper portion of the body in accordance with users of different heights, operative connection between the pedal crank shaft and the propeller shaft, and pedals carried by the cranks of the pedal crank shaft at opposite sides of the rear vertical portion of the body, the operative connection between the pedal crank shaft and the propeller shaft being arranged directly below the rearward extension on the rear vertical buoyant section.

1,752,052. FLUID-PRESSURE GENERATOR. EDWIN H AIKEN, Superior, Ariz. Filed July 27, 1927. Serial No. 208,791. 5 Claims. (Cl. 60—45.)

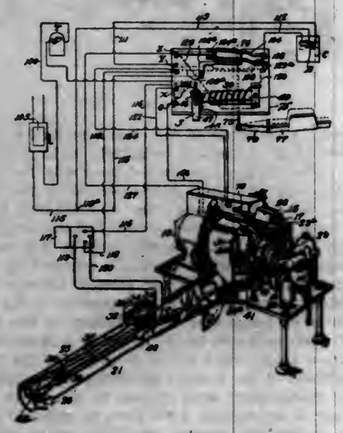
1. An internal combustion boiler consisting of a compression cylinder, a combustion chamber, a water container within which the combustion chamber and the compression cylinder are enclosed, means for supplying air to the compression cylinder, means for supplying fuel to the

combustion chamber, and means for maintaining a supply of water in the container, valves for controlling said fuel



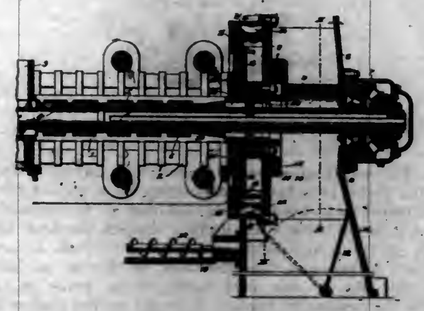
and air supply, and means under control of the pressure in the container for determining the time of closing of said valves.

1,752,053. AUTOMATICALLY CONTROLLED OIL BURNER. LOYD I. ALDRICH, Peoria, Ill., assignor to Preferred Oil Burners, Inc., Peoria, Ill., a Corporation of Illinois. Filed May 1, 1925. Serial No. 27,181. 2 Claims. (Cl. 158—28.)



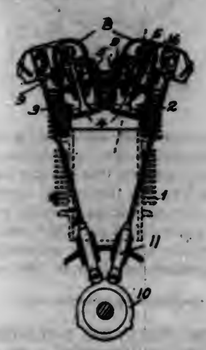
1. In combination with an electric motor driven fuel burner, an ignition member, automatic control means therefor comprising a thermostat, a starting switch controlled by combustion conditions, an electrically operated switch actuating mechanism, a switch requiring manual reset adapted to be operated thereby, a high voltage circuit including the electric motor, thermostat, combustion switch and electrically operated switch actuating mechanism, a circuit changing mechanism comprising a switch member completing the starting circuit through the above named members, a second switch adapted to complete a shorter electrical circuit, including the motor, prior to the opening of the first named switch and pending the movement of the combustion switch, and a third switch in a second circuit through the combustion switch adapted to close prior to the movement of said combustion switch.

1,752,054. PRESS. RAYMOND T. ANDERSON, Cleveland, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 28, 1925. Serial No. 33,461. 7 Claims. (Cl. 100—48.)



1. In a press the combination of a casing having openings therein for the passage of expressed liquid; means working in the casing to subject the material undergoing treatment to pressure and to advance the pressed material toward the discharge end of the press; a plurality of laterally adjustable members, the inner ends whereof extend into the discharge opening, said members producing a choke for said opening; and means for securing simultaneous adjustment of said members and maintaining them in their adjusted position.

1,752,055. VALVE-MECHANISM HOUSING. GLENN D. ANGLE, Cincinnati, Ohio, assignor to The Le Blond Aircraft Engine Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 23, 1928. Serial No. 314,471. 5 Claims. (Cl. 123—90.)

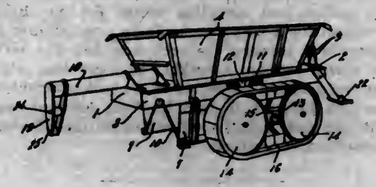


1. In combination in an engine cylinder having a valve and valve stem therein, a flange formed about an opening in said cylinder through which the stem of the valve projects, said flange being concentric with the valve stem axis, and a housing with a rocker arm therein for engaging the valve stem, said housing having a flange of a shape to take a full seat in various positions of radial adjustment upon the said engine flange, for the purpose described.

1,752,056. DUMP TRAILER. ARTHUR P. ARMINGTON and STEWART F. ARMINGTON, Willoughby, Ohio, assignors to The Euclid Crane & Hoist Company, Euclid, Ohio, a Corporation of Ohio. Continuation of application Serial No. 304,462, filed Sept. 7, 1928. This application filed May 1, 1929. Serial No. 359,600. 2 Claims. (Cl. 298—35.)

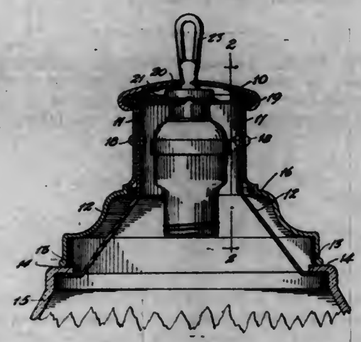
1. A heavy-duty dump trailer of cart class, comprising an open-bottom container-body, mobile supporting means

for said body, including running gear characterized by rolling elements of diameter less than the width of the body opening and medially located axle means associating the body with the running gear, said axle means being arched over the bottom opening and including arms depending from the body and having at their lower ends tilting bearing connection with said gear, whereby the body is supported in elevated position to tilt fore-and-aft



about the bearing axis and is substantially balanced but in unstable equilibrium over said axis, and a single pair of dumping doors for said opening each extending the full length thereof and mounted to swing downwardly and laterally to dumping position whereby dumping of the load will be uniform fore-and-aft of said axis of balance, and said balance will thus be maintained independent of whether the load is carried or dumped.

1,752,057. SHADE HOLDER. JACOB B. BANDER, New York, N. Y., assignor to Full-O-Lite Company, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1927. Serial No. 234,757. 4 Claims. (Cl. 240—133.)



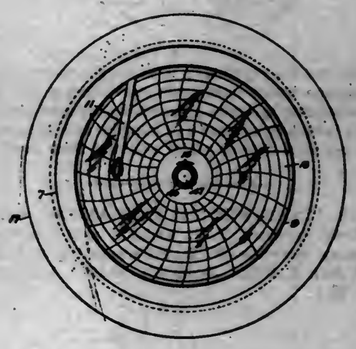
1. In a lighting fixture, a shade supporting member consisting of a supporting member having a central transverse portion, a pair of legs extending downwardly in parallelism from the ends of the transverse portion and having their lower ends diverging, and outwardly extending feet on said lower ends; a bell having a cylindrical upper portion surrounding the parallel portions of the legs and having a flaring lower portion provided with an outwardly extending peripheral flange adapted to engage the portion of a shade supported on said feet to clamp the shade on the feet, and means to secure the bell in position on the supporting member.

1,752,058. BUILDING CONSTRUCTION. ALBERT F. BEMIS, Newton, Mass., assignor to Bemis Industries Inc., Boston, Mass., a Corporation of Delaware. Filed May 13, 1927. Serial No. 191,044. 15 Claims. (Cl. 72—1.)



1. A wall construction comprising a row of parallel studs, slabs at either side of the studs, said slabs being formed with grooved undulatory inner faces which provide grooves in interfitting engagement with said studs.

1,752,059. RECORDING INSTRUMENT. EDGAR H. BRISTOL, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1928. Serial No. 269,258. 3 Claims. (Cl. 234—1.)

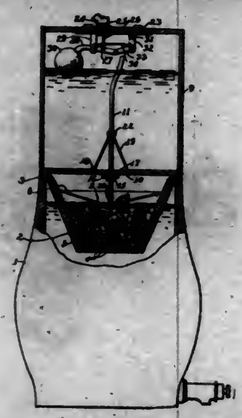


1. In a recording instrument, in combination with a clock-driven inner member for supporting a chart at an end thereof, a removable cap for securing the chart thereto having snap engagement therewith, and an element loosely associated with said cap and manipulable to engage and steady said inner member during removal of the cap.

1,752,060. WATER FILTER. CHARLES L. BURRIGHT and MELVIN J. SNYDER, Campbell, Calif. Filed Apr. 20, 1927. Serial No. 185,238. 4 Claims. (Cl. 210—105.)

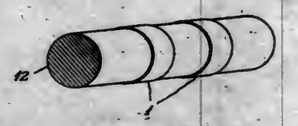
1. A water filter comprising an olla, a receptacle mounted thereon having a perforated bottom portion and closed

at its top, a tube passing through the perforated bottom portion into the olla and extending upwardly to a point adjacent the top of the receptacle, a filtering pad covering



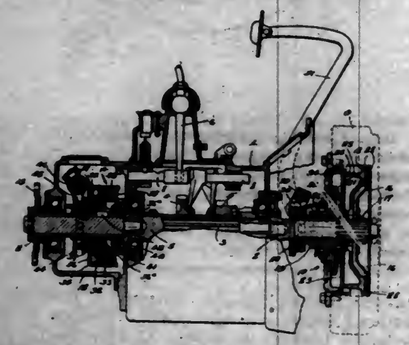
the perforated bottom portion, a foraminous cone mounted on said pad and encompassing said tube, and means mounted on the tube for engaging the apex of the cone and pressing it into engagement with the edge of the pad.

1,752,061. MAKING BACKING MEMBER FOR SLITTING MACHINES. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed May 25, 1928. Serial No. 280,516. 3 Claims. (Cl. 29—148.)



1. The method of making a backing member for a slitting machine which consists in converting a flat blank of sheet metal into a sleeve, then hardening said sleeve, then grinding said sleeve inside and outside, and then mounting said sleeve on a core of softer material than itself.

1,752,062. TRANSMISSION MECHANISM. GEORGE C. CARHART, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Mar. 8, 1926. Serial No. 93,101. 1 Claim. (Cl. 192—53.)



In a transmission mechanism, the combination of driving and driven shafts, a normally engaged clutch for connecting and disconnecting the shafts, the clutch comprising coacting friction sections and coacting positive sections, one of the positively engaged sections and one of the friction sections being shiftable and operable successively, whereby the positive sections disengage in advance of the friction sections and the sections reengage in the reverse order, throw-out means for one of the shiftable positive sections of the clutch and means between the shiftable sections whereby the positive shiftable section picks up the shiftable friction section during the throwing out of the clutch, spring means to shift the shiftable friction section into engaged position when not held disengaged by the positive section and operating means for the throw-out means comprising a rock arm having a cam follower thereon, connections between the rock arm and the shiftable positive clutch section, a rocking cam coacting with the follower and a spring connected to the rock arm which carries the cam follower to hold the cam follower engaged with the cam and to hold the positive shiftable clutch section in its engaged position.

1,752,063. LIFEBOAT. CHARLES C. CLIFFORD, Coleraine, Minn. Filed Apr. 6, 1929. Serial No. 353,070. 4 Claims. (Cl. 114—16.7.)



1. The combination with a submarine boat, of a life boat comprising a streamline normally closed body, a hatch by which access may be had to the interior of the body, hatches by which communication may be had between the boats, means to mount the life boat on the submarine boat with the hatches in associated relation, said last named means comprising a finger and eye connection toward the stern of the life boat and a jack screw toward the bow of the life boat.

1,752,064. TOOL. THOMAS F. CONNORS, Columbus, Ohio, assignor, by mesne assignments, to Charles G. McGhie, St. Catharines, Ontario, Canada. Filed July 1, 1927. Serial No. 202,840. 4 Claims. (Cl. 16—116.)



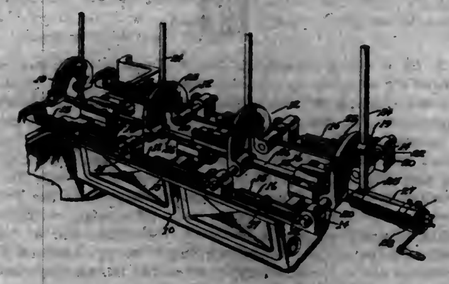
1. In a load bearing tool, the combination of a tool proper; a metallic shank integrally united at one of its ends with the tool proper; a tubular metallic handle having one of its ends integrally united with the other end of the said shank and comprising an elongated body portion knurled on its exterior surface; a heat insulating strip of composition cork spirally wound upon and cemented to the knurled surface of the said body portion; and a grip member secured to the free end of the said body portion and having a portion thereof overlying the end of the cork covering for protecting the same.

1,752,065. AUTOMATIC EXTENSIBLE TABLE. JOSEPH COOPER, New York, N. Y. Filed Dec. 1, 1927. Serial No. 236,923. 4 Claims. (Cl. 45—118.)



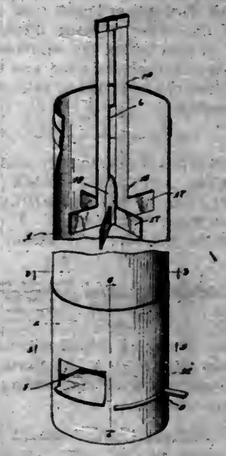
4. In automatic extension tables comprising a centre leaf, leaves adapted to lie under the centre leaf, a slide combination for the under leaves comprising a fixed slide member formed with a key slide-way, movable slide members adjacent the fixed member, rack and pinion connections intermediate the movable slide members, and cam and stud connections intermediate said movable slide members and the fixed slide member, rack bars slidable in said key slide-way and carrying said studs, the cams being carried by the movable slides and engaged by said studs, a pinion connecting said rack bars and rack and pinion connections intermediate the slides.

1,752,066. LINE-BORING MACHINE. MAURICE C. COX and RALPH B. RYAN, Oakland, Calif. Filed Apr. 12, 1927. Serial No. 183,062. 1 Claim. (Cl. 77—2.)



A boring bar support comprising a pair of bearings adapted to be secured to the crank case at opposite sides of a bearing to be bored and disposed at right angles to the bearing to be bored, a frame plate disposed intermediate said bearings and in a plane at right angles to the axis of the bearing to be bored, a trunnion projecting from each side of the plate and disposed in said bearings whereby the plate may rotate in a plane parallel to the axis of the bearing to be bored, said bearings being capable of adjustment to hold said plate in a stationary position, a member connected with the plate and disposed with its axis substantially parallel with the bearing to be bored, a bar arranged at right angles to said member and slidably connected therewith to slide in a plane at right angles to the axis of said member, said member being normally rotatable, means for simultaneously rendering said member and said bar fixed relative to said plate, a boring bar bearing carried at one end of said bar and arranged with its axis at right angles to the axis of the bar.

1,752,067. DISPENSING MACHINE. WILLIAM G. CRANKSHAW, Chicago, Ill. Filed Oct. 18, 1927. Serial No. 225,875. 6 Claims. (Cl. 146—60.)



1. A dispensing machine for plastic substances, comprising a container, a partition in the container dividing it into upper and lower sections, said partition being adapted to support a body of plastic material in the upper section and provided with means for severing portions of the material from the body, operating mechanism in the bottom of the container including the shaft which extends upwardly through the partition and into the upper section, a member having radially extending blades insertable over the shaft adapted to sever the substance into segments upon insertion thereof, said member engaging the shaft to rotate therewith whereby the radially extending blades rotate the body of substance within the container.

1,752,068. LIQUID-DISPENSING APPARATUS. JOHN B. DAVIS, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Feb. 16, 1929. Serial No. 340,395. 5 Claims. (Cl. 221—100.)



1. In a liquid dispensing apparatus, a pair of measuring cylinders, a piston in each cylinder, a piston rod fixed to each piston and extending outside its cylinder, a pulley rotatably mounted at a point outside said cylinders, a flexible member trained around the pulley and having its ends

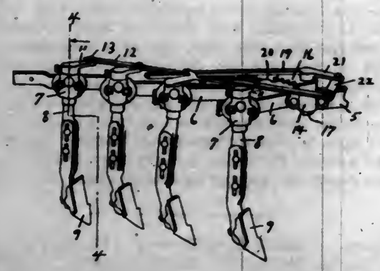
connected one to each piston rod at points outside said cylinder, whereby when one piston is moved in one direction the other will be forced to move in an opposite direction, means for supplying liquid alternately to one end of each cylinder and for discharging liquid from such end of one cylinder while the other is being filled, and a pair of shoes mounted in said pulley for adjustment in a general direction toward and away from the axis thereof and each adapted during the reciprocation of said pistons to engage said flexible member.

1,752,069. SENSITIZED COATING AND METHOD OF MAKING AND APPLYING SAME AND PHOTOGRAPHIC PLATE OR FILM PRODUCED THEREBY. EMILE DE STUBNER, New York, N. Y. Filed Mar. 14, 1927. Serial No. 175,434. 10 Claims. (Cl. 95—9.)



1. The process of making photographic films, which consists in applying directly to a film having cellulose ester as its basic ingredient, a sensitized coating material having for its base nitro-cellulose.

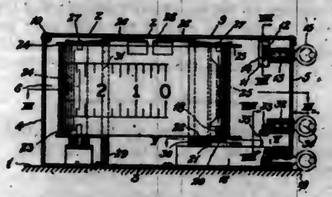
1,752,070. CULTIVATOR. MAURICE DOERSCH, Mount Horeb, Wis. Filed Dec. 5, 1927. Serial No. 237,831. 1 Claim. (Cl. 97—187.)



In a cultivator, the combination of a beam, said beam adjacent one end thereof being provided with a plurality of branches extending from one side thereof, said branches being disposed in a horizontal plane, and each of said branches terminating at their outer end in a bearing, vertically disposed longitudinally adjustable shafts having their upper ends rotatably mounted in said bearings, said shafts at their lower ends having bevels secured thereto, points detachably mounted on the upper end of said shaft, a connecting rod pivotally secured to the free end of each of said cranks, a bearing bracket secured to said beams, a vertical shaft journaled in said bearing bracket, said bearing bracket having a notched segment formed integrally therewith and extending laterally therefrom, said shaft being provided on the upper end thereof with an arm formed integrally therewith and extending laterally therefrom, a link pivotally connected at one end to one end of said arm and at its opposite end to one end of said connecting rod, said shaft being further provided with a lever formed integrally therewith and extending laterally therefrom for movement in a horizontal plane, and a detent structure carried by said lever and cooperable with said notched segment.

1,752,071. MEANS FOR REGULATING THE USE OF STREET PARKING SPACE. CHARLES C. DOYLE, Cleveland, Ohio. Filed June 2, 1926. Serial No. 113,240. 18 Claims. (Cl. 161—15.)

18. A parking-time regulatory mechanism for self-propelled vehicles comprising storage means capable of providing a perceivable record of use for only a predetermined approximate maximum duration of time, a signaling device operated thereby and a lock mechanism for controlling said signal independently of the movement of propelling parts of the vehicle whereby to permit of establishing inter-



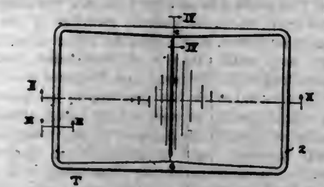
mittent time intervals of depleting use of the power-storage means to correspond with the periods of time when said vehicle is stationary and during which intervals to permit the obligatory functioning of the mechanism to be noticed by any passer-by.

1,752,072. HYDRAULIC SHOCK ABSORBER. EDWIN EARL FOSTER, Austin, Tex. Filed Mar. 10, 1928. Serial No. 260,633. 6 Claims. (Cl. 188—88.)



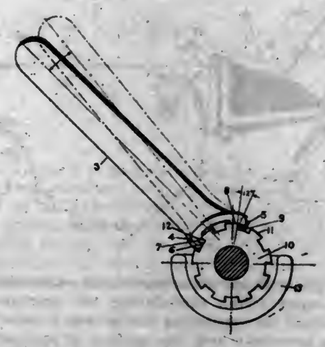
1. In a shock absorbing device, telescoping members, means for securing one of said telescoping members to the chassis of a vehicle, means for securing the other telescoping member to the axle of the vehicle, a member having a central opening to permit oil to pass therethrough, secured within one of the telescoping members, a rod secured within one of the telescoping members and extending through the opening in the member positioned in the first mentioned telescoping member, said telescoping members containing oil, an air chamber on the upper end of the rod, and the oil in the telescoping members adapted to compress air in the air chamber when the telescoping members are moved towards each other.

1,752,073. METHOD OF MAKING ENAMEL-WARE ARTICLES. JOSEPH FOSTER, Jr., Bratenhal, Ohio, assignor to The Enamel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 16, 1927. Serial No. 199,383. 3 Claims. (Cl. 113—116.)



1. A process of manufacturing enamel ware pieces having a plain central expanse, which comprises stamping a sheet metal blank with a raised marginal ledge and introducing a corrective stress in the plane of the sheet by widening the ledge at the middle zone, and finally finishing the article.

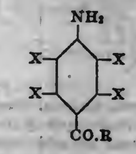
1,752,074. SPANNER WRENCH. GIDEON R. GAGNÉ, Milwaukee, Wis., assignor to Blue Point Tool Company, Milwaukee, Wis., a Corporation of Illinois. Filed Jan. 26, 1929. Serial No. 335,249. 5 Claims. (Cl. 81—90.)



1. A spanner wrench for toothed nuts having a wrench head provided with spaced projections of less width than the space between adjacent teeth of the nut, whereby said wrench is applied directly to the nut by movement at right angles to its axis, and provided with tooth-end-engaging surfaces adjacent said projections.

1,752,075. AZO DYESTUFFS AND PROCESS OF PREPARING SAME. EUGEN GLIETENBERG and AUGUST SIGWART, Leverkusen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 28, 1927, Serial No. 236,362, and in Germany Dec. 3, 1926. 6 Claims. (Cl. 260—86.)

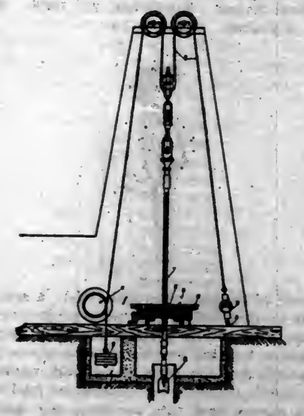
1. In the process for the manufacture of insoluble azo dyestuffs the step which comprises coupling a diazotized amino-compound of the general formula:



in which R signifies an aliphatic or aromatic residue and ω stands for hydrogen or a monovalent substituent with an acetoacet-arylamide.

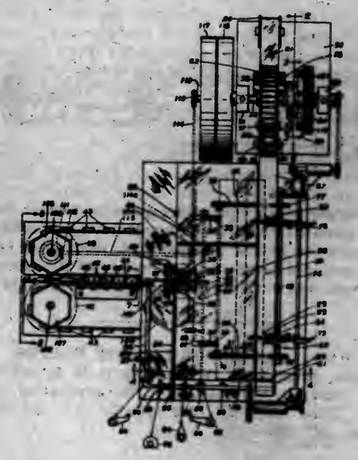
1,752,076. AUTOMATIC CONTROL DEVICE FOR WELL DRILLING. RAYMOND GODET, Ploesti, Rumania. Filed June 24, 1927, Serial No. 201,270, and in Rumania June 1, 1927. 2 Claims. (Cl. 255—19.)

1. A rotary drilling device comprising a drill stem having spirally arranged screw-threads thereon; a rotary table having screw-threads cooperating with the threads on the stem to permit helicoidal motion of the stem rela-



tive to the table; means for supporting said stem; and a constant tension device for the means to maintain a constant tension thereon.

1,752,077. AUTOMATIC MECHANISM FOR FORMING RADIATOR CORES AND THE LIKE. VITA HABIP, South Norwood, Ohio, assignor to The Ohio Automobile Radiator Company, Detroit, Mich., a Corporation of Ohio. Filed Dec. 2, 1926. Serial No. 152,143. 11 Claims. (Cl. 113—54.)



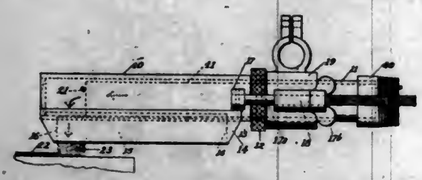
1. In a device of the class described, the combination of a pair of co-operating forming rolls for receiving between them a strip of material to be formed, a conveying mechanism for receiving the formed strip from the forming rolls, means for receiving the strips from the conveying means, a bending device adapted to strike the strip and to move it downwardly through the last mentioned receiving means whereby the strip is folded upon itself, a chute, means intermediate the chute and the last mentioned receiving means for engaging the folded strip and moving it into the chute, a series of stationary seaming dies, an anvil mounted beneath said series of dies and means for carrying the folded strip over the anvil whereby the free ends of said folded strip are moved through the stationary seaming dies for joining and seaming the free ends of the strip.

1,752,078. CHAIR-SEAT END CONSTRUCTION. GEORGE H. HAMILTON, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a Corporation of New Jersey. Filed Apr. 23, 1928. Serial No. 272,000. 3 Claims. (Cl. 240—4.)



1. In a seat of the character described: a seat end having a middle portion and side portions projecting outwardly therefrom, said middle portion having a keeper orifice and a depression housing an electric lamp above the keeper orifice; a shield for the lamp detachably applied to the face of the middle portion in an assembled position wherein its edges engage said side portions, the shield having at its lower end a lug adapted to be thrust into the keeper orifice in a horizontal assembling position of the shield and to engage said middle portion in the assembled raised position of the shield, the shield having at its upper end releasable means for securing the same to said middle portion in assembled position.

1,752,079. APPARATUS FOR MANUFACTURING PAPER. TOM HARVEY, Middletown, Ohio. Filed Oct. 31, 1928. Serial No. 316,276. 5 Claims. (Cl. 92—43.)



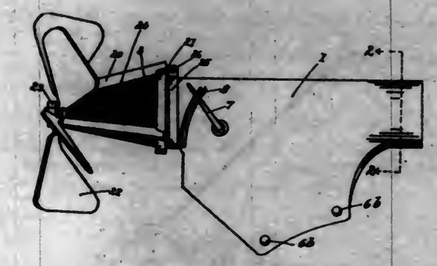
1. A shower deckle comprising an outer tubular member slidably mounted on an inner tubular member, said inner tubular member having an open end, said outer tubular member having a nozzle with an elongated discharge passage therein, and means for supplying liquid to said inner member.

1,752,080. FRAME FOR LICENSE PLATES. MEAD HEDGLON, Syracuse, N. Y., assignor to M. L. Oberdorfer Brass Company, Syracuse, N. Y., a Corporation of New York. Filed May 31, 1928. Serial No. 281,916. 2 Claims. (Cl. 40—125.)



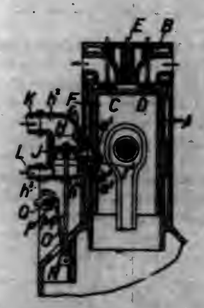
1. A frame for license plates of motor vehicles, said frame being in the form of a channel with the innermost flange of the channel arranged to engage the front side of the license plate within the edge of the plate, the outer wall of the channel being provided with spaced apart tabs movable into a position extending crosswise of the channel, each tab having an offset forming a shoulder for engaging the edge of the plate, the portion of each tab toward the free end of the tab beyond the offset overlying the rear face of the plate.

1,752,081. DUST SEPARATOR FOR INTERNAL-COMBUSTION ENGINES. CHRISTIAN F. HEINES, Sr., Fort Madison, Iowa. Filed Nov. 14, 1924. Serial No. 750,008. 3 Claims. (Cl. 183—72.)



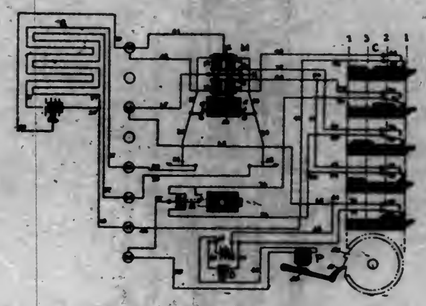
1. In a centrifugal air separator for carbureter intakes, a cone-shaped screen surrounding the aperture to said intake, means for supporting said screen, a centrifugal fan rotatable exteriorly over the surface of said screen with means to support said centrifugal fan and a second fan rigidly attached to said centrifugal fan to supply the motive force necessary for the rotation of said centrifugal fan.

1,752,082. INTERNAL-COMBUSTION ENGINE. ERNST HEART, Kiel, Germany, assignor to Fried. Krupp Germaniawerft Aktiengesellschaft, Kiel-Gaarden, Germany. Filed Jan. 21, 1926, Serial No. 82,826, and in Germany Feb. 7, 1925. 6 Claims. (Cl. 60—13.)



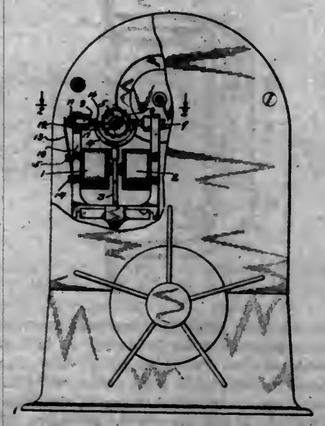
1. A four stroke cycle internal combustion engine comprising a working cylinder and piston and exhaust and inlet valves at the head of said cylinder adapted to be opened in the normal manner during the exhaust and suction strokes respectively, a port in said cylinder so positioned as to be uncovered by said piston only when said piston is substantially at lower dead center, a turbine air compressor, a conduit connecting said port to said turbine for supplying to the latter exhaust gases escaping through said port at the end of the expansion stroke of said piston, a conduit connecting said air compressor to said port for supplying a charge of compressed air to the cylinder at the end of the suction stroke of said piston, and valve means for alternately opening and closing said conduits in accordance with the strokes of said piston.

1,752,083. BURGLAR-ALARM SYSTEM. SIMON B. HESS, New York, N. Y., assignor to Holmes Electric Protective Company, New York, N. Y., a Corporation of New York. Filed July 12, 1924. Serial No. 725,583. 14 Claims. (Cl. 177—314.)



1. In an electrical protective system for guarding premises against unauthorised entry, a line conductor subject to rupture by an unauthorised entry, an alarm circuit, a circuit controller of the step-by-step type controlling the conductor circuit and the alarm circuit, and means set into operation by the rupture of the line conductor for actuating the circuit controller to close the alarm circuit.

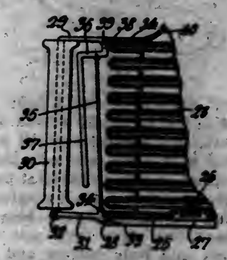
1,752,084. PRINTING TELEGRAPH. GEORGE S. HILTZ, Brooklyn, N. Y., and WILLIAM F. PURCELL, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y., a Corporation of New York. Filed Nov. 28, 1927. Serial No. 236,085. 7 Claims. (Cl. 178—35.)



1. Printing telegraphs comprising a receiving or recording machine, unisoning mechanism for unisoning the receiving machine, an electromagnet for operating said unisoning mechanism, resistance normally in the circuit of said magnet to render the same inoperative for unisoning, and means automatically operable for periodically cutting out said resistance to effect operation of said magnet for unisoning.

1,752,085. FLEXIBLE OIL CAN. JAMES M. HINKLE, Barbourville, Ky., assignor of one-half to Robert B. Minton, Barbourville, Ky. Filed June 25, 1928. Serial No. 287,926. 1 Claim. (Cl. 221—47.)

An oil can comprising a resilient metal body including an outlet, the body having a plurality of annular folds, the constituent walls of which are spaced apart widely enough so as to permit the body to be compressed to a marked degree in the general direction of its length, the body being corrugated throughout its entire length, so that it may yield at any point in its length, the body forming the extreme outer wall of the oil can, whereby the oil can may be compressed by pressure applied anywhere around the periphery of either end of the can,

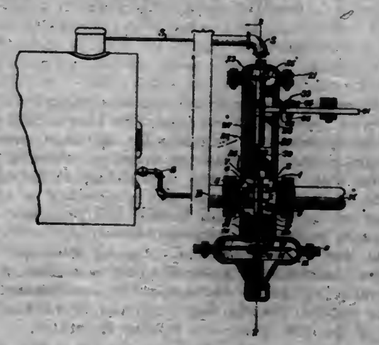


and mechanism for compressing the can, said mechanism comprising a grip connected at one end to one end of the body, an arm fulcrumed at said end of the grip and extended lengthwise of the grip in such position that an operator can reach the arm with the same hand that holds the grip, a lever fulcrumed on the opposite end of the grip, and engaging the opposite end of the body, and a link pivoted to the lever and to the arm.

1,752,086. PROCESS OF RECOVERING NITRIC ACID FROM WEAK NITRIC LIQUORS. HEINRICH HIRTZ, Ellenburg, Germany. Filed Feb. 28, 1924, Serial No. 694,710, and in Germany June 15, 1923. 5 Claims. (Cl. 23—161.)

1. The process of recovering nitric acid from weak nitric acid liquors, which consists in treating such liquors with pyrites, thereby converting the nitric acid into nitric oxide and recovering the nitric acid by converting the nitric oxide to nitric acid.

1,752,087. DUAL FLUID-PRESSURE-CONTROLLING DEVICE. JOHN F. HIXON, Ebeneser, N. Y., assignor to Gilfillan Machine Works, Inc., Ebeneser, N. Y., a Corporation of New York. Filed Nov. 16, 1927. Serial No. 233,611. 3 Claims. (Cl. 236—26.)



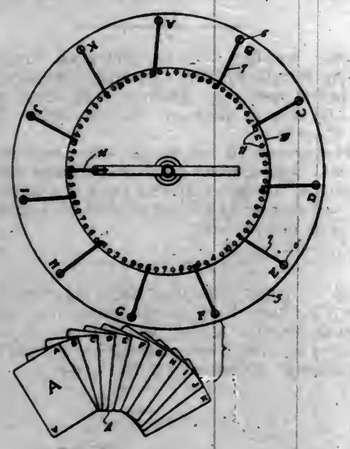
1. In a device for controlling the fluid fuel pressure and the generated vapor pressure of a boiler, the combination of a valve casing having inlet and outlet chambers for said fluid fuel, means normally operative to control the fluid pressure in said outlet chamber, means subject to said vapor pressure and adapted to close the valve when the vapor pressure reaches a predetermined value and means for preventing the first mentioned means from opening said valve while the vapor pressure remains at the predetermined value.

1,752,088. ARTIFICIAL BAIT. LEVIN B. HUNTINGTON, Annapolis, Md. Filed Apr. 4, 1928. Serial No. 267,329. 2 Claims. (Cl. 43—45.)



1. An artificial bait comprising a body portion having an opening and a slit forwardly of the opening for the passage of a hook, said opening and slit providing means for mounting the hook upon said body portion, and said body portion further having an integral part thereof providing a resilient retaining tongue extending into the slit for securing the hook to the body portion, said tongue being bent first away from said body and then reversely towards said body portion and extending into said slit to engage the hook for latching it upon the body portion.

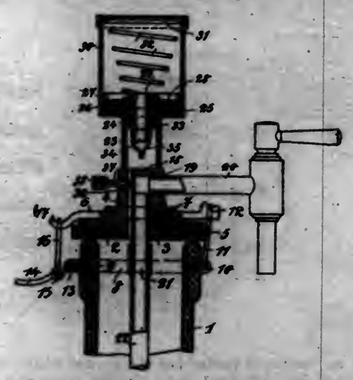
1,752,089. GAME DEVICE. FRANCIS W. HYNES, Springfield, Mass. Filed Mar. 20, 1929. Serial No. 348,496. 2 Claims. (Cl. 273—141.)



1. In a game device of the character described, a base member, a plurality of spaced vertical pins carried by the member, an inwardly extending flexible finger carried by each pin, a disk rotatably associated in vertically spaced relation with the base and terminating at its edge inwardly of the edge of the base, a plurality of pins arranged in spaced relation around the perimeter of the disk and extending upwardly therefrom, said fingers of the first mentioned pins being of a length to encounter the disk pins when said disk is rotated, a pointer arranged rotatably above the disk and having at one of its ends a flexible finger adapted to encounter the pins of the disk when said pointer is rotated.

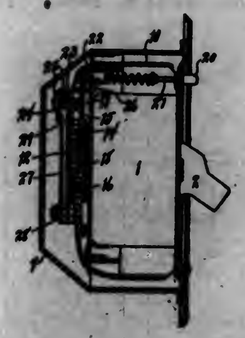
1,752,090. CLOSURE FOR BOTTLES AND JARS. ERNST JOHANNSSEN, Hamburg, Germany, assignor to Schaefer & Fiedelmeier, Hamburg, Germany, a Corporation of Germany. Filed Dec. 23, 1927, Serial No. 242,177, and in Germany Mar. 4, 1927. 3 Claims. (Cl. 215—4.)

1. A closure for receptacles, comprising a disk, a member adjustable on said disk in axial direction and formed with two passages, clamping means adapted for engagement with said member and for clamping the disk to the receptacle, a tube member extending downwardly from one of said passages, a faucet connected with the passage communicating with said tube, a tubular extension on said



disk out of connection with said passage communicating with said tube and connected with the other passage, a cylinder and piston mounted on said tubular extension, a check valve intermediate said cylinder and tubular extension, and means for closing the passage communicating with said tubular extension.

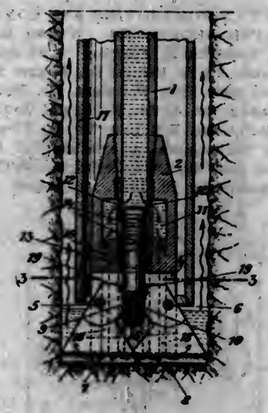
1,752,091. DELAYED CIRCUIT-BREAKING LIGHT SWITCH. CHARLES B. JOHNSON, Seymour, Tex. Filed Nov. 25, 1929. Serial No. 409,710. 2 Claims. (Cl. 200—116.)



1. In an electrical lighting apparatus provided with a circuit and a switch; wires connected to said circuit on opposite sides of said switch, a fixed contact point connected to said circuit on one side of said switch, a movable contact point and a spring bar carrying the same, a push-rod and a button carried thereby for actuating said spring bar for making contact with said contact points, a detent for automatically locking said points in contact and maintaining said contact, a thermostatic control electrically connected to said circuit on the other side of said switch, and electrically connected to said movable contact, and a pull-rod connected to said control and to said spring bar for breaking the contact.

1,752,092. EXPANSIBLE BORING TOOL FOR HYDRAULIC BORING APPLIANCES. MATHIEU ALKUNOWITSCH KAPELUCHNIKOFF, Baku, Russia. Filed Oct. 2, 1929, Serial No. 396,684, and in Germany Sept. 23, 1927. 2 Claims. (Cl. 255—76.)

1. A boring tool for sinking shafts comprising, in combination, a cutter head having bevelled prong-like jaws, cutting blades supported between said jaws, said jaws extending so as to take up the forces arising in a horizontal plane and relieving thereby the trunnions of the jaws, said cutter head having an annular recess therein,



a tube, a piston movable in the tube, means controlled by said piston for spreading the cutting blades apart, and stops on said blades engaging said piston to limit the expansion of the blades.

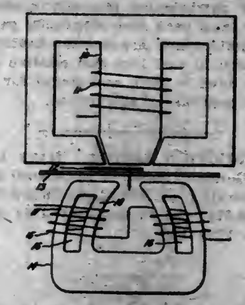
1,752,093. COMPRESSOR. ROBERT L. KING, Richmond, Va. Filed May 28, 1926. Serial No. 112,342. 4 Claims. (Cl. 230—152.)



1. A compressor comprising a pressure chamber having an opening therein, a compressor mounted in said chamber and having a portion forming a closure for the opening therein, said compressor including a cylinder having an inlet port, and an outlet port directly communicating with the interior of said chamber, a shaft rotatable in said cylinder eccentric thereto, a rotor carried by said shaft concentric therewith, a plurality of radial sliding pistons carried by said rotor, heads closing the ends of said cylinder, said rotor being provided in each end with recesses surrounding said shaft, circular cams carried by said heads concentric with said cylinder and projecting into said recesses, said cams contacting with the inner edges of said pistons, and lubricant feeding means controlled by pressure in said chamber for feeding lubricant therefrom under pressure to the inner edges of said pistons.

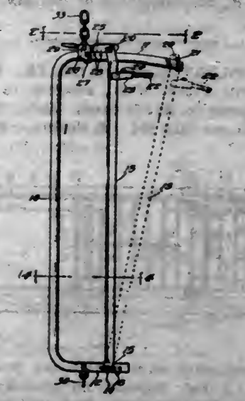
1,752,094. INDUCTION WATT-HOUR METER. ISAAC F. KINNARD, Lynnfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 7, 1927. Serial No. 173,248. 6 Claims. (Cl. 171—264.)

6. An induction type watthour meter having a current flux magnetic circuit of sufficient cross-sectional area at its smallest portion to operate below saturation over the entire range of current flux for which the meter is intended to operate, different series connected portions of



said magnetic circuit having materially different permeabilities when subjected to the light load range of current flux.

1,752,095. STANCHION. RUDOLPH J. LANGER, Monticello, Iowa, assignor to Franklin Equipment Company, Monticello, Iowa, a Corporation of Iowa. Filed Dec. 23, 1927. Serial No. 242,052. 8 Claims. (Cl. 119—147.)



1. In a stanchion comprising a side bar having a top and a bottom bar fixedly connected thereto, a swinging side bar, U-shaped in cross section, having a portion of each end cut away to form spaced apart extensions, the extension members of one end being adapted to embrace and be pivotally connected to the bottom bar of the stanchion, the other end extension members straddling and having sliding engagement with the top bar, a keeper connecting the free ends of the fork on said last mentioned end members, and a latch secured to the top bar and adapted to engage the keeper.

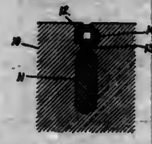
1,752,096. SEWING-MACHINE RUFFLER. HARRIS A. LAWTON and ANDREW J. CARMICHAEL, New Haven, Conn., assignors to The Greist Manufacturing Company, a Corporation of Connecticut. Filed May 28, 1928. Serial No. 280,036. 2 Claims. (Cl. 112—135.)



2. In a sewing machine ruffler, the combination with an operating lever, a pendulous lever having a shoulder,

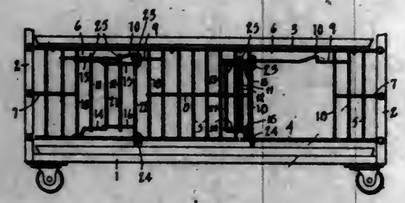
and a ruffling blade operatively connected with said pendulous lever, of a ratchet wheel having deep and shallow notches, a pawl-carrier pivotally mounted on said operating lever, and fixed and adjustable pawls mounted on said pawl-carrier, said pawl-carrier having lugs, a bar rotatably mounted in said lugs and relative to which bar said adjustable pawl is fixed, and means for holding said bar in different positions of adjustment.

1,752,097. INDUCTION MOTOR. HANS LUND, Berlin-Schoneberg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 6, 1925, Serial No. 13,571, and in Germany July 29, 1924. 25 Claims. (Cl. 172—120.)



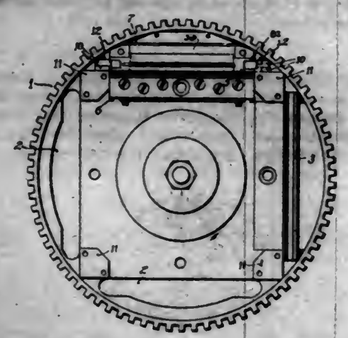
1. A rotor element for a dynamo electric machine comprising a core member and a pair of windings carried by said core at different fixed radial positions therein, and means dependent upon the speed of rotation of said element for varying the reluctance of the flux path between said windings.

1,752,098. POULTRY COOP OR CRATE. LYNN W. MACOMBER, Battle Creek, Mich., assignor to United Steel and Wire Company, Battle Creek, Mich. Filed Dec. 31, 1928. Serial No. 329,434. 5 Claims. (Cl. 220—19.)



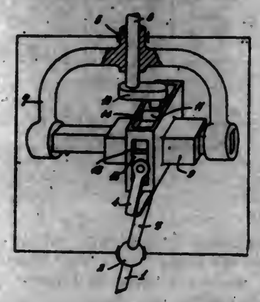
4. The combination of a wall panel provided with a door opening, a rod disposed horizontally across said door opening and having an offset therein providing a keeper, and a door comprising pivotally connected sections, the outer section being slidably engaged with said retaining rod to coact with said keeper thereof when the door is in closed position.

1,752,099. TYPOGRAPHICAL MOLD. HARLEY J. MOLEY, Chicago, Ill. Filed May 14, 1928. Serial No. 277,755. 29 Claims. (Cl. 199—55.)



1. In combination, a standard type line casting machine, a mold adapted for use thereon and adapted for casting a type slug, said mold having jaw means movable into open and closed positions and singly actuated means for moving said jaw means from one of said positions to the other independently of the type slug.

1,752,100. DEVICE FOR DRIVING AND CONTROLLING A FIN-SHAPED PROPELLER. WIGGER MEINDERSMA, Wassenaar, Netherlands, assignor to Findriven Syndicaat, Bestaande uit de Heeren Dr. Wigger Meindersma te Wassenaar voor Fifty Per Cent, Dr. Meine Rutgers te 's Gravenhage en Anton Ferdinand Johannes Dijk-Graaf te Rotterdam, Elk voor Twenty-Five Per Cent, The Hague, Netherlands, a Syndicate of the Netherlands. Filed June 30, 1928, Serial No. 289,592, and in the Netherlands July 16, 1927. 9 Claims. (Cl. 115—29.)



1. Apparatus for driving and steering a fin-shaped propeller, comprising a rotating driving shaft; a normally-stationary steering shaft associated with it; guide means connected to rotate with the drive shaft; a rotating propeller shaft; a slide mounted on the guide means to reciprocate thereon, and with which the upper end of the propeller shaft has a connection; and a member carried by the steering shaft and connected with the slide to shift said slide along said bar when the steering shaft is turned during steering.

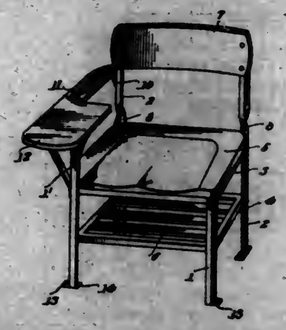
1,752,101. MINING PROP. HEINRICH MEUTSCH, Essen, Germany. Filed Dec. 22, 1926. Serial No. 156,808. 1 Claim. (Cl. 248—2.)



A mining prop, comprising a tubular member closed at one end, an inflatable member supported in said tubular member, and a piston-like member mounted for sliding movement in the tubular member, the inner end of said sliding member contacting with said inflatable member whereby the sliding member is caused to move outwardly from the tubular member when the inflatable member is inflated.

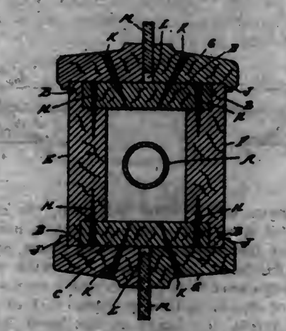
1,752,102. CHAIR. GEORGE H. MEW and LUCIUS NEAL SMITH, Emory University, Ga. Filed June 22, 1928. Serial No. 287,477. 1 Claim. (Cl. 155—194.)

A chair of the class described comprising front and rear legs and sets of upper and lower braces connecting the legs together, said legs and braces being formed of angle iron with contacting portions of the parts welded together, the rear legs having upwardly extending portions, each leg being twisted at a point above the upper braces so as to bring one of its flanges forwardly, a back piece fastened to the forward flanges of the extensions of the rear legs, one of the front legs being extended



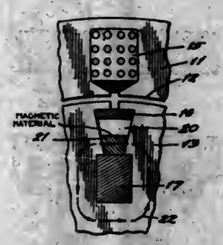
upwardly, an arm connected with the extension of one of the rear legs and with the upper end of the extension of said front leg, a seat supported by the upper braces, the lower end of each leg being split, with one flange bent outwardly and the other inwardly to form flattened enlarged parts at the lower end of each leg, the outwardly extending part having a hole therein whereby the leg can be fastened to a floor.

1,752,103. BUILT-UP PARTITION PILLAR. ISAAC H. MORRISON, Detroit, Mich. Filed Nov. 24, 1928. Serial No. 321,705. 5 Claims. (Cl. 20—4.)



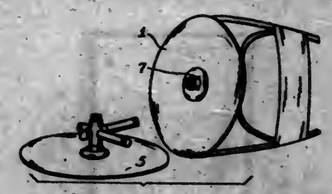
5. A built up partition post, consisting of a pair of spacedly disposed plain panels, and a pair of spacedly disposed marginally tongued panels arranged in perpendicular relation to the first named pair, the end portions of which latter fit in the shoulders constituted by the tonguing of the second named pair of panels in a way to position the tongued end surfaces of said second pair of panels in the same plane with the outer surfaces of the corresponding panels of the first named set, screw members engaging transversely of the planes of the first named pair of panels and lengthwise of the planes of the second named pair of panels for effecting their structural correlation about an available central space, spanner members arranged in pairs on either side of an interposed glass pane in a manner to concealingly cover the plain panel members first above recited and the overlapping tongued ends of the second named pair of panel members as well as the marginal edges of the exposed outer faces of the latter, thereby additionally holding the latter against displacement, and screw members passing through each unit of said spanner members into the bodies of the respective adjacent plain panel members.

1,752,104. INDUCTION MOTOR WITH VARIABLE REACTANCE. THOMAS G. MYERS, Los Angeles, Calif., assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed Apr. 30, 1925. Serial No. 26,890. 7 Claims. (Cl. 172—120.)



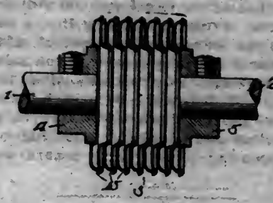
3. A rotor element for a dynamo electric machine comprising a magnetic core member and a pair of windings carried by said core member at different fixed radial positions therein, said windings being separated by slot spaces, and radially freely movable magnetic wedges in said slot spaces arranged to be moved outwardly by centrifugal force dependent upon the speed of rotation of said element and inwardly solely by magnetic force dependent upon the flux of said member to vary the reluctance of the flux path between said windings.

1,752,105. CHAIR FOR HUNTERS. WESTON M. NASH, Saginaw, Mich. Filed Oct. 29, 1928. Serial No. 315,657. 3 Claims. (Cl. 155—94.)



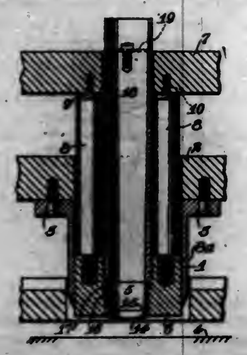
3. A seat of the class described having a seat, a base and a detachable standard comprising oppositely directed branches of different lengths secured to a T member, and means detachably securing the ends of said branches to said seat and base respectively.

1,752,106. FLEXIBLE COUPLING. LAWRENCE M. PERSONS, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 19, 1927. Serial No. 240,963. 2 Claims. (Cl. 64—26.)



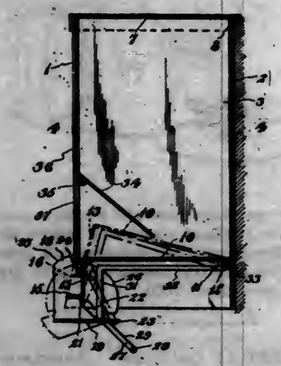
1. In a device of the class described, the combination with a drive shaft, of a driven shaft, and a collapsible and expansible unit therebetween comprising metallic plates united peripherally by alternately arranged gutter and flange connections.

1,752,107. EMBOSSING CUTTER HEAD. ALBERT S. PLATER, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Aug. 9, 1929. Serial No. 384,734. 2 Claims. (Cl. 107—26.)



1. In a cutter head of a candy or biscuit cutting machine including an embossing plunger, an inner tubular hole-cutter having an outwardly projecting flange at its upper end received in a counter-bored recess formed in the back face of the plunger, a scrap tube received in said recess, said hole cutter having its tubular passage restricted at the cutting end, for the purposes set forth.

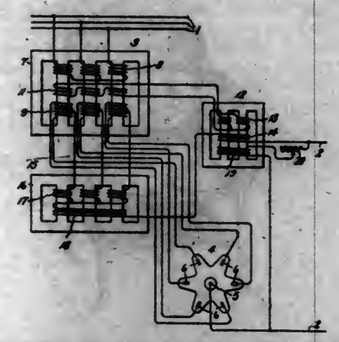
1,752,108. MATCH RECEPTACLE. JAMES C. POISTER, Morrill, Kans. Filed Aug. 15, 1928. Serial No. 299,826. 9 Claims. (Cl. 312—84.)



1. A match dispensing receptacle comprising a body open at its lower end and having side walls and front and rear walls, a bottom for said body pivoted at its rear end and having its free front end provided with depending tongues having outstanding lips, a shaft carried by the side walls below the front end of said bottom, a dispensing element pivotally mounted upon said shaft and held against movemnt longitudinally upon the shaft by said tongues, said dispensing element being adapted to receive matches passing downwardly between the tongues and front wall of said body, and actuating means to rotate said dispensing element and impart movement to said bottom.

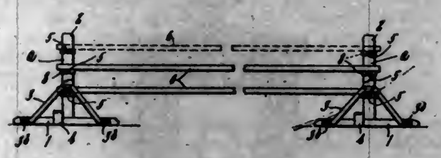
1,752,109. ELECTRICAL SYSTEM. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1926. Serial No. 87,688. 9 Claims. (Cl. 175—363.)

1. The combination of direct and alternating current circuits, a transformer comprising star-connected and Y-connected windings wound on the same core, a valve apparatus comprising a cathode and an anode connected between said circuits through said transformer, and means responsive to the third harmonic of the fundamental voltage applied to said transformer for regulating the transformation ratio of said transformer.



8. The method of regulating the voltage of a direct current circuit connected to an alternating current circuit through means comprising an interphase transformer and a saturation regulator which comprises successively saturating the cores of said transformer and said regulator.

1,752,110. COMBINATION SLIDE, SEESAW, AND JUMPING BOARD. MATILDA REMY, Wellesley, Mass. Filed Mar. 11, 1927. Serial No. 174,489. 2 Claims. (Cl. 272—54.)



1. In a device of the class described, the combination with a pair of standards, each of which is provided with a plurality of transversely extending rungs, of a pair of horizontal, flat-faced boards provided with recesses on their under sides near their ends, in which recesses the rungs of said pair of standards loosely engage each of said boards at different levels, the board at the lower level serving to maintain the device in rigid assembly.

1,752,111. SLIDER FOR INTERLOCKING FASTENERS. EUGENE W. RUTHERFORD, New Haven, Conn., assignor to The Shoe Hardware Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 17, 1927. Serial No. 192,035. 11 Claims. (Cl. 24—205.)



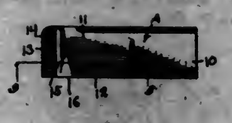
1. A sheet metal slider for multiple interlocking fasteners comprising top and bottom walls rigidly united by a trough shaped sheet metal neck integral at all points with the top and bottom walls.

1,752,112. SPIRIT LEVEL. CHARLES D. SEVERANCE and RAYMOND O. STETSON, Greenfield, Mass., assignors to Goodell-Pratt Company, Greenfield, Mass., a Corporation of Massachusetts. Filed June 26, 1928. Serial No. 288,364. 6 Claims. (Cl. 33—211.)



1. A spirit level comprising in combination a stock having a sleeve retaining bore and recesses formed in the stock adjacent the bore, plastic material deposited in said recesses, a sleeve rigidly mounted in said bore and provided with clearance holes of larger diameter than the diameter of the level-glasses through which the ends of level-glasses may project, a pair of level-glasses mounted in said bore to extend across the sleeve and each glass having its ends projecting through the clearance holes in the sleeve and set solid in the plastic material in said recesses, a pair of bead carrying rods supported by said sleeve to extend across the sleeve adjacent the level-glasses, and a bead mounted on each rod and movable lengthwise thereof to the desired position of adjustment.

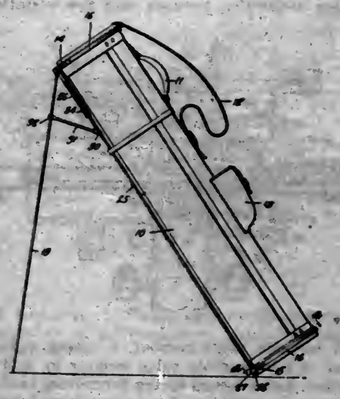
1,752,113. CHANNELING KNIFE. WILLIS S. SHAFT, Faribault, Minn., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Filed Jan. 25, 1927. Serial No. 163,491. 1 Claim. (Cl. 12—27.)



A shoe channeling knife comprising a shank, a blade extending forwardly from the shank provided with a longitudinal cutting edge and a transversely extending cutting end, and an auxiliary blade formed on the upper face of the blade and extending transversely thereof adjacent to but spaced from the transversely extending cutting end, one end of the auxiliary blade being provided with a cutting edge adjacent to the longitudinal cutting edge, the auxiliary blade extending at an angle to the vertical and inclining away from the transversely extending cutting end, and said transverse cutting end being beveled toward the longitudinal cutting edge of the blade.

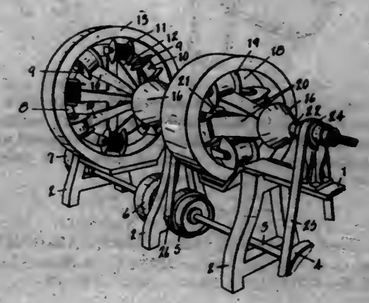
1,752,114. GOLF-BAG SUPPORT. GEORGE F. SHAW, Mayfield, Ky. Filed Apr. 20, 1928. Serial No. 271,515. 1 Claim. (Cl. 150—1.5.)

In combination with a golf bag, a pair of arcuate-shaped attaching members adapted to be positioned at opposite ends of the bag, legs having their upper ends pivotally secured to one of the attaching members, a sleeve rigid with and extending from said member between the points of pivotal attachment of the legs, a spring influenced rod having one of its ends slidingly mounted in the sleeve and its other end mounted for sliding movement in the other



attaching member and normally extended beyond the end of the bag, and links having one of their ends connected with the rod and their other ends connected with the legs.

1,752,115. MACHINE FOR MANUFACTURING METALLIC PACKING. LEON A. SLITER, Kalamazoo, Mich., assignor to Durametallic Corporation, Kalamazoo, Mich. Filed Jan. 14, 1927. Serial No. 161,102. 6 Claims. (Cl. 117—1.)

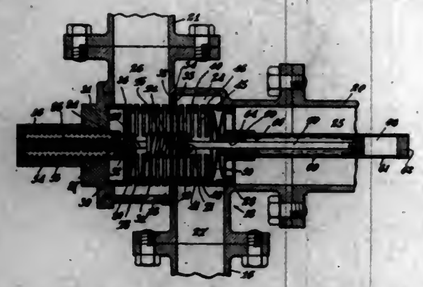


1. In a machine of the class described, the combination of a rotatably mounted spool turret provided with a plurality of spools adapted to receive strips of relatively thin metal mounted thereon and other spools adapted to receive reinforcing strands, a tubular rotatably mounted former disposed at the rear of and in axial alinement with said spool turret, a second rotatably mounted turret disposed at the rear of said former and provided with a plurality of spools adapted to receive strips of relatively thin metal, a second rotatably mounted former disposed at the rear of said second turret, and means for driving said formers and turrets at varying speeds.

1,752,116. COOLING-FLUID CONTROL. HERBERT A. SMITH, Bethlehem, Pa., assignor to Sarco Company, Inc., a Corporation of New York. Filed Mar. 11, 1926. Serial No. 93,862. 1 Claim. (Cl. 236—34.)

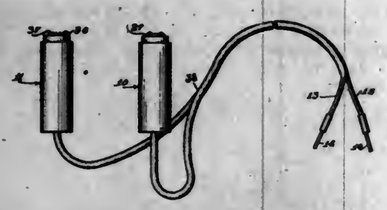
A thermostatic valve comprising a casing having three ports, a stationary valve member communicating with two

of said ports, a movable valve member communicating with a third of said ports, an expansible and compressible thermostatic device of the bellows-type located in one of said ports for moving said movable valve member, a lost motion connection between said thermostatic device



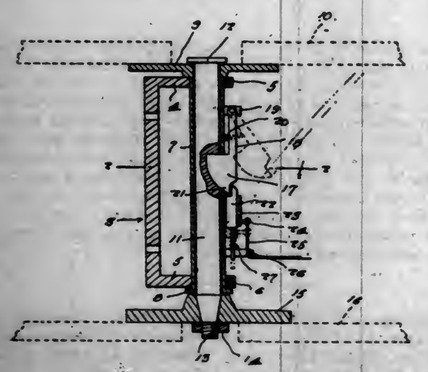
and said movable valve member, a spring opposing the movement of said movable valve member by said thermostatic device, and a second spring for moving said movable valve member to safety position upon breakdown of said thermostatic device.

1,752,117. TEMPERATURE DETECTOR. WILLIAM SMITH, Yonkers, N. Y. Filed Sept. 28, 1928. Serial No. 309,096. 3 Claims. (Cl. 174—89.)



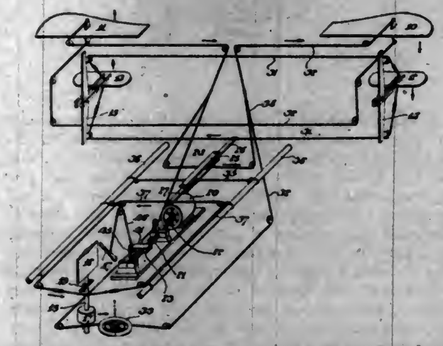
1. A temperature detector comprising a handle, a thermocouple mounted in said handle and having a plurality of exposed junctions and a plurality of posts spaced around said junctions, the upper ends of said posts extending above the plane of said junctions.

1,752,118. AEROPLANE-RUDDER-BAR CONTROL. JAMES C. SPENCER, Chicago, Ill. Filed Mar. 12, 1929. Serial No. 346,362. 2 Claims. (Cl. 244—29.)



1. In a structure of the class described, in combination, an attaching bracket comprising bearings, a tubular shaft mounted for rotation in said bearings and provided at one end with a head, an auxiliary control bar connected with said head, a main shaft mounted for rotation in said tubular shaft provided at an opposite end with a head, a main control bar connected with said last named head, spring released clutch means for coupling said main and tubular shaft together for simultaneous operation, and a manually manipulated trip latch for cooperation with said clutch.

1,752,119. BALANCING SYSTEM FOR AIRCRAFT. JOHN P. TARBOX, Philadelphia, Pa., assignor to Tarbox Safety Aircraft Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 4, 1927. Serial No. 230,956. 7 Claims. (Cl. 244—29.)



1. In an aircraft, a lateral stabilizing system comprising air rush responsive devices at opposite lateral locations on the craft, differentially acting connections between them, a standard of position with respect to earth and differentially acting connections between the first named said connections and the said earth standard.

1,752,120. LIFE-SAVING SUIT. WILLIAM A. TAYLOR, Detroit, Mich. Filed Oct. 6, 1927. Serial No. 224,435. 4 Claims. (Cl. 9—20.)



1. In a device of the class described, a body, a helmet, means for connecting the helmet to the body, ear flaps connected to the helmet, ear plugs, and flexible elements connecting the ear plugs to the flaps, the flexible elements and the ear plugs being housed beneath the flaps when the ear plugs and the flaps are in place.

1,752,121. MANUFACTURE OF ORTHO-ANISIDINE AND SIMILAR AMINOPHENOL ETHERS. JOSEPH TCHERNIAC, Streatham Hill, London, England. Filed Sept. 29, 1927, Serial No. 222,940, and in Great Britain Oct. 2, 1926. 2 Claims. (Cl. 260—130.5.)

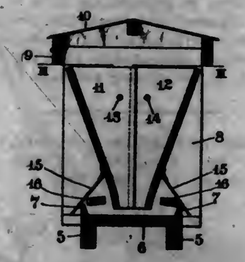
1. A manufacture of ortho-aminophenol ethers by heating the product of the reaction of hypochlorite and an alkali on an alkyloxyarylcarboxylic acid amide.

1,752,122. INDICATOR. JULIUS E. THIELER, New York, N. Y. Filed Mar. 28, 1928. Serial No. 265,394. 1 Claim. (Cl. 177—33.)



In a vehicle signalling device, a rotatably mounted drum having signalling indicia thereon to be selectively displayed, a motor for rotating said drum, an arresting member movable into the path of a part of said drum, a normally closed spring pressed switch mounted on said arresting member and engageable by said part, an electric motor circuit including said switch and said motor, said switch being opened when engaged by the part to open the circuit to the motor, said arresting member preventing forward movement of said drum, ratchet means to prevent retrograde movement of said drum, and electromagnetic means for moving said arresting member into and out of the path of said part for controlling the actuation of said motor circuit.

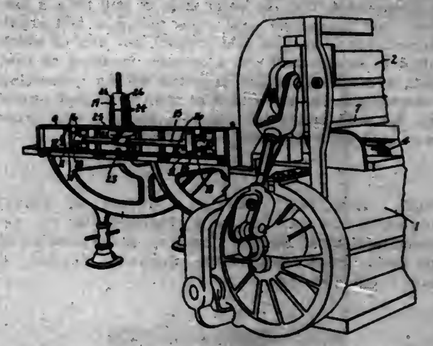
1,752,123. ANIMAL FEEDER. JESS A. THOMPSON, Washington C. H., Ohio. Filed Apr. 19, 1929. Serial No. 356,437. 4 Claims. (Cl. 119—54.)



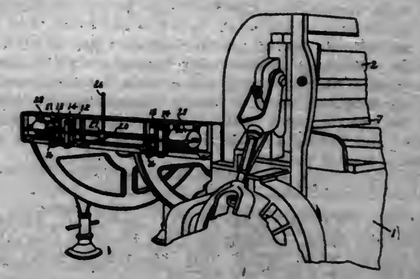
1. In a hog feeder including a suitable supporting frame, a hopper composed of two parts adapted to slide on each other at edges thereof and means for pivoting said parts in said frame.

1,752,124. PAPER CUTTER. CLARENCE O. THORNE, Watervliet, Mich. Filed June 11, 1928. Serial No. 284,470. 9 Claims. (Cl. 164—59.)

8. In a structure of the class described, the combination of a table, a gauge bar slidably mounted at the side of the table, a rockshaft disposed in parallel relation to said gauge bar and provided with spaced eccentrics, eccentric blocks coacting with said eccentrics and operatively connected to said gauge bar whereby it is uniformly adjusted on the actuation of said rockshaft, and means for actuating said rockshaft.

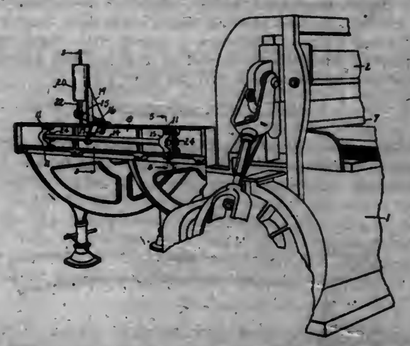


1,752,125. GAUGE FOR PAPER-CUTTING MACHINES. CLARENCE O. THORNE, Watervliet, Mich. Filed July 2, 1928. Serial No. 289,650. 7 Claims. (Cl. 164—59.)



7. In a structure of the class described, the combination of a table, a gauge bar, supporting slides at the ends of said gauge bar, and actuating cams disposed in coacting pairs and operatively associated with said slides whereby the gauge bar is positively actuated and retracted.

1,752,126. GAUGE FOR PAPER-CUTTING MACHINES. CLARENCE O. THORNE, Watervliet, Mich. Filed July 2, 1928. Serial No. 289,651. 5 Claims. (Cl. 164—59.)



1. In a structure of the class described including a cutter and a table operatively associated therewith, the combination of a gauge support mounted at the side of the table and having an angled face, the horizontal portion of which is disposed in a plane flush with the surface of the table, a

gauge bar slidably mounted on said support, pairs of adjusting rods for said gauge bars slidable in said support, cross pieces connecting the outer ends of said rods, a longitudinal rod connecting said cross pieces, a bell crank actuating lever pivoted on said support, one arm of which is slotted to engage said rod, a cylinder mounted on said support, a coacting plunger provided with a connecting rod connected to the other arm of said lever, and return springs for said gauge bar disposed between said cross pieces on said adjusting rods and said support.

1,752,127. ELECTRIC SWITCH. GEORGE H. TOVEY, Lansdowne, and CARL THUMIM, Philadelphia, Pa., assignors to General Electric Company, a Corporation of New York. Filed Jan. 5, 1928. Serial No. 244,596. 6 Claims. (Cl. 200—166.)



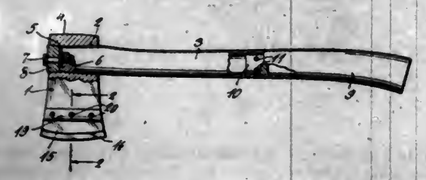
1. An electric switch having cooperating relatively movable contacts, a base member having a rigid member fixed thereto for supporting one of said contacts, means fixed to said one contact loosely connecting the same with the member and a resilient member fixed to said base member and having a point contact with said means arranged centrally thereof.

1,752,128. WATCH BRACELET. LOUIS J. VETTER, Attleboro, Mass., assignor to Bliss Brothers Company, Attleboro, Mass. Filed July 18, 1929. Serial No. 379,149. 4 Claims. (Cl. 58—88.)



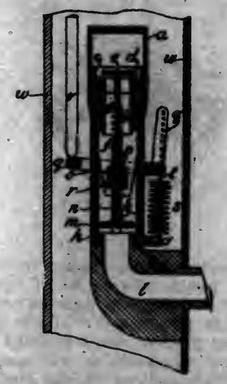
4. A watch bracelet including a body having an opening, a watch movement holder composed of a ring-like front received in said opening and a back, said front and back having pairs of members provided with registering perforations, and screws extending through the perforations of said members and into the body.

1,752,129. AX. JOHN M. WATSON, Shell, Wyo. Filed May 25, 1929. Serial No. 365,826. 1 Claim. (Cl. 306—42.)



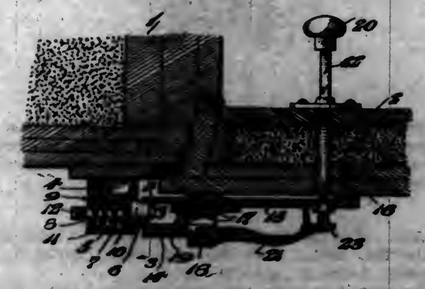
An ax comprising a head having a socket for a handle, the bit end of said head having a rabbet adapted to receive a removable blade, the side wall of the rabbet having a plurality of spaced studs adapted to project into openings in the removable blade, said studs having axial threaded openings, a cover plate adapted to form a cover for the open side of the rabbet and screws extending through the removable plate and into the threaded openings in the studs for holding the stud in place.

1,752,130. INTERNAL-COMBUSTION PUMP. ERIC WILLIAM MACKAY-WHITE, Rossland, British Columbia, Canada. Filed Sept. 17, 1927. Serial No. 220,260. 5 Claims. (Cl. 103—249.)



1. A device of the character described comprising a pair of compression chambers ported into communication, means for effecting compression of fluid in one of said chambers, a valve closing said port of communication with the second chamber arranged to open to admit fluid so compressed in the first chamber and to close upon the equalization of pressures in said chambers, a pressure fluid conduit extended outwardly from within the first chamber and ported into communication with said first chamber, a valve for closing said port, means within said first chamber normally effective to hold said valve closed, and mechanism cooperating with said port valves and controlled and operated by fluid pressure within said first chamber to maintain initially attained pressure in the second chamber during reduction of pressure in the first chamber to a point in determinate ratio to the pressure in the second chamber and thereafter automatically operative to open said conduit and second chamber port valves in order and subsequently effective to cause said valves to return to port closing positions.

1,752,131. DOOR FASTENER. GUNTHER PHILIP WILD, Philadelphia, Pa. Filed Jan. 5, 1928. Serial No. 244,568. 4 Claims. (Cl. 292—254.)



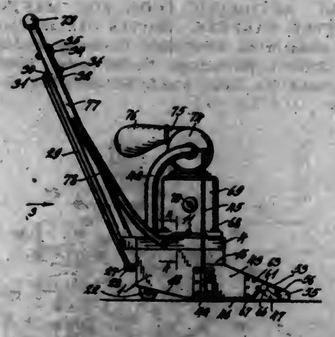
1. A latch device of the character stated comprising a casing having a rectilinear opening therein, a keeper the nose of which has opposed bevelled edges, the major part of said keeper being mounted within said casing, a horizontally disposed rod of rectangular cross-section extended outwardly from said keeper nose and penetrating said rectilinear opening in said casing, means passing vertically through the end of said rod as projected beyond said casing for limiting longitudinal movement of said keeper, and a spring interposed between the inner end of said keeper nose and said casing.

1,752,132. THERMIONIC DEVICE. DANIEL C. WILKERSON, Washington, D. C. Filed Jan. 26, 1924. Serial No. 688,731. 1 Claim. (Cl. 250—27.5.)



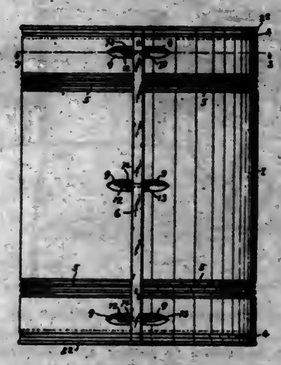
In a thermionic device the combination of an anode for controlling substantially the entire electronic emission, the surface of said anode being a surface of revolution having a major axis extending between the foci of said surface, said anode being provided with openings, a cathode and grid enclosed by said anode, the cathode extending in a direction with said axis and lying close to said axis whereby to occupy a position relative to the anode such that uniformity in the spacing between the cathode and anode at all points is closely approached, supports for the cathode and grid extending through said openings, and enlargements formed on said supports and providing shields near said openings for deflecting electrons traveling in a path of escape from said anode and confining the same within the anode, the shields being enclosed by the anode.

1,752,133. FLOOR-FINISHING MACHINE. HUGH M. WOLGAMOOD, Denver, Colo., assignor of one-half to J. E. Pickard, Denver, Colo. Filed Oct. 1, 1928. Serial No. 309,589. 5 Claims. (Cl. 51—174.)



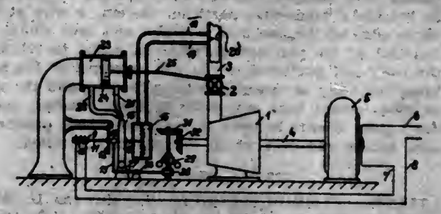
4. A machine of the type described comprising, in combination, a casing portion divided by a transverse partition into two compartments, a suction fan supported on said casing, a conduit extending from the intake port of the fan to one of said compartments, an assembly carrying two spaced rollers, a belt enclosing the rollers, means for rotating one of said rollers, and means comprising a hinge for securing the assembly to the casing so that it may swing away for the purpose of removing and replacing the belt.

1,752,134. KNOCKDOWN CONTAINER. WILLIAM S. WOODMAN, Lakewood, Ohio, assignor of one-fourth to Leo K. Woodman, Cleveland, Ohio. Filed May 9, 1928. Serial No. 276,234. 8 Claims. (Cl. 220—5.)



1. A knockdown container comprising a tubular body formed of a single metal sheet having its end edges adjoining from the top to the bottom of the container, the adjoining end portions of said sheet having transversely alined external recesses formed therein adjacent the top and bottom of the container, bolts having their ends in said alined recesses and connecting the adjoining ends of said sheets, and heads fitting in opposite ends of said body, said heads and body having interfitting circumferential portions for locking the heads in place when the body is contracted upon the heads by tightening said bolts.

1,752,135. APPARATUS FOR THE REGULATION OF DRIVING ENGINES FOR ELECTRIC-CURRENT GENERATORS. GUIDO WÜNSCH, Steglitz, near Berlin, Germany, assignor to Askaniawerke Aktiengesellschaft vormals Centralwerkstatt Dessau und Carl Bamberg-Friedenau, Kaiserallee, Berlin-Friedenau, Germany. Filed Jan. 16, 1928, Serial No. 247,227, and in Germany Jan. 18, 1927. 3 Claims. (Cl. 290—40.)

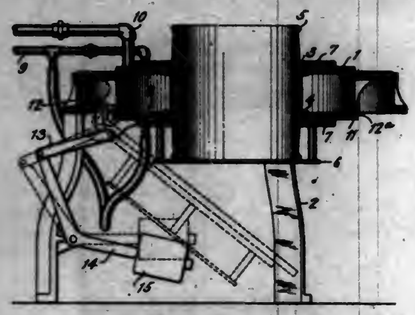


1. An apparatus for the regulation of driving engines for electric current generators which must constantly operate at approximately the same number of revolutions comprising, in combination with a driving engine, a generator and a power supply, means for regulating the supply of power to the driving engine, a regulator controlling said means and comprising two elements influenced by the output taken at the time from the electric current generator and by the power supply respectively, and a setting device inserted between said elements and adapted to set the ratio of transmission of the said two influences on the regulator for the purpose to suit the change in the efficiency of the entire plant.

1,752,136. APPARATUS FOR MANUFACTURING TIRES. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan. Filed Mar. 27, 1929. Serial No. 350,238. 8 Claims. (Cl. 154—10.)

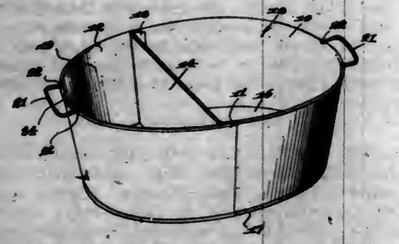
1. In an apparatus for shaping tire casings and permitting curing bags to be assembled therein, a hollow an-

nular chamber open on its inner periphery and having a movable lower wall, and means for creating less than atmospheric pressure within the chamber, in combination



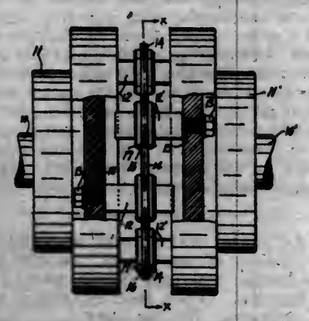
with means for governing the position of the movable lower wall, said means being automatically operated when the vacuum is broken to permit an assembled casing and bag to gravitate out of the chamber.

1,752,137. COMPARTMENT PAN. ELIZABETH F. AHEARN, Detroit, Mich. Filed Aug. 3, 1927. Serial No. 210,307. 1 Claim. (Cl. 141—9.)



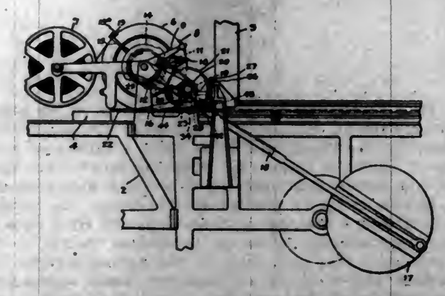
A dish pan the body portion of which is formed from a single sheet of material shaped in circular form and extended from one side of said body portion to the other to provide a transverse partition therein, a wire at the upper edge of the pan and partition and over which the material of the pan and partition is rolled to reinforce the body and partition of the pan, portions of the bead being cut away at opposite ends of the pan and the wire at these points bent outwardly to form handles, and a short piece of wire between the outwardly bent portion of each handle and over which the material is rolled.

1,752,138. FLEXIBLE COUPLING. HOWARD D. AINSWORTH, Berkeley, Calif., assignor to F. A. B. Manufacturing Company, Berkeley, Calif. Filed Sept. 24, 1927. Serial No. 221,731. 5 Claims. (Cl. 64—26.)



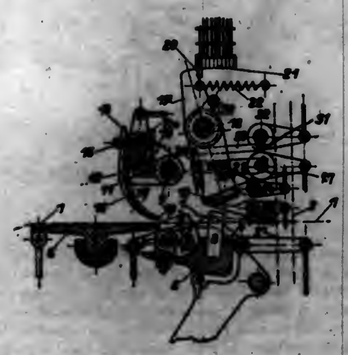
1. A flexible coupling comprising a driving flange, a driven flange, removable pins carried by each of said flanges and extending toward the other of said flanges, said pins having alternatively flattened and rounded surface portions, a plurality of links for transmitting the driving force from the driving to the driven flange, each of said links having one end connected to a pin carried by the driving flange and its other end connected to a pin carried by the driven flange, resilient bushings interposed between said pins and said links, said bushings conforming to the alternately flattened and rounded surface portions of said pins and adapted to be uniformly distored by the action of the driving force.

1,752,139. TORCH APPARATUS AND CARTON-SEALING MACHINE. JAMES L. ANDERSON, Tenafly, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 7, 1927. Serial No. 238,452. 5 Claims. (Cl. 93—56.)



1. In a machine for applying sealing tapes to cartons, comprising a tape carrier, and means for supporting the cartons in operative relation to the tape carrier and for turning the tape carrier and producing relative translational movement between the tape carrier and the cartons, blowpipe means and a support for the same, said blowpipe means being supported adjacent the periphery of the tape carrier and comprising means for delivering a plurality of sets of jets, so arranged as to heat the tape on the tape carrier and also to supply heat to the surface of the carton.

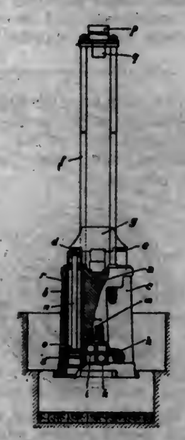
1,752,140. AUTOMATIC LOOM FOR MAKING REAL KNOTTED CARPETS. MAURUS BÁNYAI, Vienna, Austria, assignor to Vereenigde Knooptapytindustrie Systeem Bányai, Rotterdam, Netherlands. Filed Feb. 7, 1925, Serial No. 7,593, and in Germany Feb. 8, 1924. 15 Claims. (Cl. 139—4.)



1. In an automatic loom for the manufacture of genuine knotted carpets, the combination with means for weaving a ground fabric of warp lifters capable of swing-

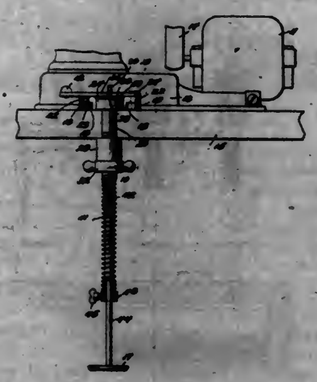
ing from an inoperative position into a position for engaging and raising the warp threads of the ground fabric, colour selecting members for carrying the pile threads, said colour selecting members being capable of angular movement for placing a pile thread into position for insertion into the ground fabric, drawing out clamps for pulling out the pile threads to the required length for forming a knot, grippers for engaging the pile threads, said grippers being capable of rocking for transferring the pile threads to the point where the knot is to be inserted, and shears for severing the pile threads, said shears being capable of swinging from an inoperative position out of the path of the pile threads into a position for engaging the pile threads, as and for the purposes set forth.

1,752,141. DROP HAMMER. HANS BÄCHÉ, Huckeswagen, Germany. Filed Nov. 10, 1926, Serial No. 147,481, and in Germany Nov. 14, 1925. 11 Claims. (Cl. 78—25.)



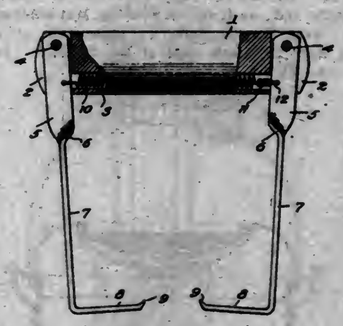
1. A power hammer, comprising an anvil formed at its sides with vertical cylindrical holes, a ram, pistons mounted in said holes for reciprocating therein and loosely engaging said ram, means to supply a pressure fluid to said holes below said pistons, and guiding means for said ram.

1,752,142. CONTROL MECHANISM FOR SEWING MACHINES. DAVID BESWICK, Brooklyn, N. Y. Filed Jan. 19, 1927. Serial No. 162,138. 9 Claims. (Cl. 74—81.)



7. In combination with a sewing machine having a base with a button projecting therefrom, of a clamp adapted to secure said base to a support, a member slidable in said clamp and adapted to be moved by the knee of an operator, a lever pivoted to said clamp and having one end in engagement with said button and means connecting said lever and member for movement in unison.

1,752,143. STORAGE-BATTERY CARRIER. WALTER A. BISHMAN, Minneapolis, Minn. Filed Dec. 17, 1927. Serial No. 240,787. 4 Claims. (Cl. 16—114.)



1. In a storage battery carrier, a handle having forked ends and abutting shoulders adjacent said ends, a pair of co-operating jaws having shanks disposed laterally of said handle and pivoted within said forked ends, said abutting shoulders limiting the inward movement of said jaws, a passage extending longitudinally through said handle and a contractile spring extending through said passage and having its ends connected eccentrically with said shanks to urge said jaws together.

1,752,144. LONG-STROKE PUMPING JACK. LAWRENCE G. BUAT, Tulsa, Okla. Filed Apr. 16, 1928. Serial No. 270,536. 8 Claims. (Cl. 74—5.)

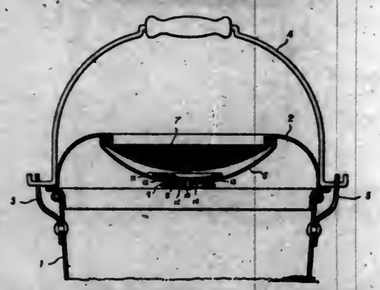


8. A pump jack comprising a flexible reciprocable element, a framework over which the element is guided including confronting channels, and a counterbalancing weight connected to said element being received by and guided in said channels.

1,752,145. NONCORROSIVE ALCOHOLIC SOLUTIONS. WILLIAM S. CALCOTT and HERBERT W. WALKER, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 22, 1928. Serial No. 314,316. 9 Claims. (Cl. 23—5.)

8. The process of inhibiting the corrosion of iron by an aqueous solution of glycerine in contact therewith by the application to said iron of a higher fatty acid dissolved in said solution.

1,752,146. RECEPTACLE. CHARLES E. CARTER, Indianapolis, Ind., assignor to Sterling Manufacturing Company, Fort Wayne, Ind., a Corporation of Delaware. Filed Apr. 28, 1928. Serial No. 273,496. 12 Claims. (Cl. 31—51.)



8. In liquid control apparatus for receptacles, the combination, with an intake member having an intake aperture, the intake member being formed with notches opening into the aperture, a valve beneath the aperture of the intake member, a supporting plate for the valve arranged above the intake member and having drain apertures, a conical sleeve projecting from the supporting plate through the aperture in position for resting against the edges thereof and allowing liquid to flow through said drain apertures and through said notches, and means of detachable connection of the valve with said supporting plate.

1,752,147. TENSION REGULATOR. LYNN B. CASE, Highland Park, N. J., assignor to John Waldron Corporation, New Brunswick, N. J., a Corporation of New Jersey. Original application filed June 11, 1926, Serial No. 115,398. Divided and this application filed June 20, 1928. Serial No. 286,923. 8 Claims. (Cl. 242—75.)



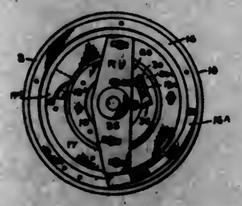
5. In a machine for coating web material, comprising a stationary frame; means for drawing a web of material continuously through the machine from a stock roll; means for automatically maintaining the web under uniform tension, while passing through the machine, comprising a movably supported frame adapted to revolvably support said roll, said frame and said roll being adapted to move in one direction by the pull of the material; a brake on the movable frame for retarding the rotation of the roll; a lever for operating said brake; a projection on the stationary frame adapted to engage and operate said lever; and means for moving the movable frame and the roll in the opposite direction to counterbalance the effect of the pull on the material and to cause actuation of the brake operating lever on the movable frame, by the operating projection on the stationary frame.

1,752,148. AUTOMOBILE HEATING APPARATUS. STEPHAN CHOLOWSKI, Portal, N. Dak. Filed May 2, 1929. Serial No. 359,954. 3 Claims. (Cl. 184—104.)



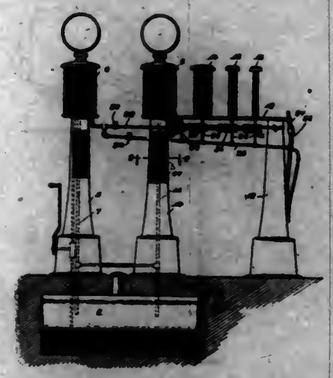
1. In an apparatus of the class described, the combination of a primary casing adapted to be placed contiguous to a crank case, an auxiliary casing around said primary casing, a cork gasket in said auxiliary casing and adapted to bear against a crank case, and means on said primary casing whereby steam may be supplied thereto.

1,752,149. CIRCUIT MAKER AND BREAKER. WILL N. CLURMAN, Long Beach, N. Y. Original application filed Mar. 29, 1927, Serial No. 179,203. Divided and this application filed Mar. 30, 1929. Serial No. 351,178. 5 Claims. (Cl. 200—11.)



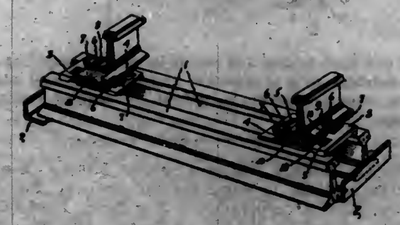
1. In a circuit maker and breaker, a support, an endless contact thereon, a second contact adjacent said endless contact, a third contact adjacent said second contact and having a part overlapping same, a fourth contact adjacent said second and third contacts and extending beyond the limits thereof, a fifth contact adjacent said fourth contact, parts of said fourth and fifth contacts overlapping each other, all of said contacts being insulated one from the other.

1,752,150. COIN-CONTROLLED LIQUID-DISPENSING APPARATUS. ERNEST C. COOPER, St. Stephens, Ala. Filed Aug. 17, 1927. Serial No. 213,638. 8 Claims. (Cl. 221—100.)



1. In a dispensing apparatus, an elevated reservoir, a vertically adjustable overflow pipe movable through the bottom thereof, a chart arranged to one side of the overflow pipe and having calibrations thereon indicating a predetermined quantity of liquid for a predetermined money value, an indicating finger carried by the overflow pipe and adjustable with the latter over the chart to facilitate reading of the latter, a vertical rod arranged to one side of the overflow pipe, a sleeve carried by the indicating finger and slidable on the rod, an interiorly threaded boss carried by the collar, a set screw threadedly received in the boss to engage the vertical rod and hold the overflow pipe against vertical adjustment and having a transverse opening for registration with the opening in the boss, and a lock engageable with the registering openings to retain the set screw against being rotated.

1,752,151. RAILROAD-TRACK STRUCTURE. WILLIAM DALTON, Glenville, N. Y. Filed Sept. 19, 1928. Serial No. 307,025. 2 Claims. (Cl. 238—107.)



1. In a railway track structure, the combination of a metal tie having a supporting plate which tapers in thickness, said plate being provided with openings at opposite edges to receive rail-fastening members, and a groove in the underside of the plate adjacent the opening at the thicker edge of the plate of a depth such that the same kind of fasteners may be used in each opening.

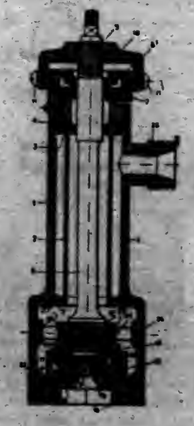
1,752,152. RAILROAD-TRACK STRUCTURE. WILLIAM DALTON, Glenville, N. Y. Filed Apr. 11, 1929. Serial No. 354,390. 7 Claims. (Cl. 238—351.)



1. The combination with a tie plate having an opening, of a clamp adapted for insertion into said opening to fasten a rail in position, said clamp having a concave inner face and a convex outer face provided with a transverse ridge, said concave inner face receiving the adjacent edges of the opening and the rail flange, and said ridge wedging against the outer face of said opening on a line below its top edge.

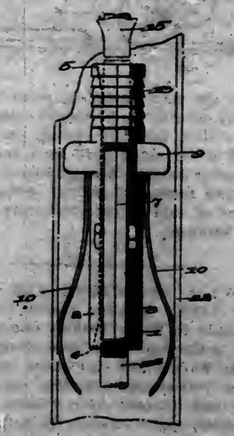
1,752,153. SPRAYING OF LIQUIDS. ENRICO PIETRO DE ZAN, Spezia, Italy. Filed Mar. 2, 1927, Serial No. 172,154, and in Italy Nov. 19, 1926. 6 Claims. (Cl. 299—119.)

1. Improved liquid sprayer comprising in combination a casing having a closed end, means for supplying liquid thereto, a longitudinal shank extending within the casing, a primary valve at one end of the shank, a fixed abutment on the closed end of the casing in line with the primary valve, a secondary annular valve in threaded engagement with the primary valve and in sliding engagement with the abutment, two sets of atomizing ports passing through the wall of the annular valve, one set adapted to be closed by the abutment and the other by the primary valve, means whereby when the longitudinal shank is rotated to



open the ports the primary valve recedes from the abutment to form an intermediate atomising chamber therebetween and open one set of ports and at the same time move the annular valve relatively to the abutment and thereby open the second set of ports in the annular valve, the two sets of ports being simultaneously, identically and gradually opened or closed, and an outlet port in the fixed abutment to directionally discharge the atomized liquid.

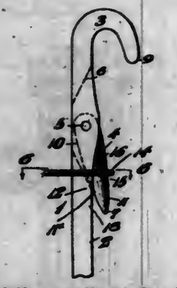
1,752,154. ROD OR TUBING GUIDE. STEPHEN V. DILLON, Tulsa, Okla., assignor to Smith Separator Company, a Corporation of Oklahoma. Filed Dec. 1, 1927. Serial No. 237,112. 5 Claims. (Cl. 308—3.)



1. A rod guide adapted to be inserted in a well tubing, comprising a body portion having a channel therethrough for slidably engaging a sucker rod, a plurality of diametrically opposed rigid projections on said body portion for maintaining the same centrally of said tubing, and a plurality of bowed springs on said body arranged to friction-

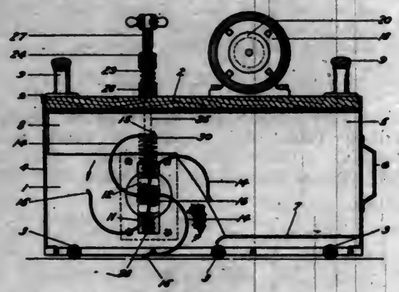
ally engage the walls of said tubing in advance of said projections for automatically retaining said guide in a stationary position at the desired depth in said tubing after the string of rods has been inserted.

1,752,155. KNITTING NEEDLE. GEORGE C. EGLY, Bensalem Township, Bucks County, Pa. Filed Oct. 16, 1928. Serial No. 312,764. 4 Claims. (Cl. 66—121.)



1. In a latch knitting needle of the character stated, a needle shank terminating in a hook, a latch pivoted in a slot in said shank and coacting with said hook, and means for preventing the impact of the back of said latch against the juxtaposed portion of said shank when said latch is in the open position comprising rearwardly tapered rounded lugs integral with the sides of said latch and offset with respect to the back edge thereof.

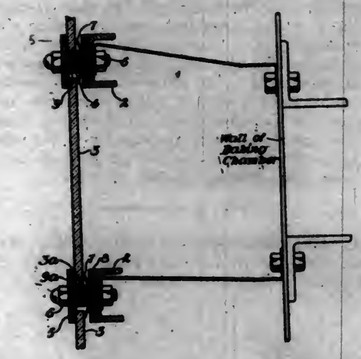
1,752,156. POWER SCRAPING MACHINE. ALFRED H. ENDORF, Wheatland, Iowa. Filed Sept. 14, 1928. Serial No. 306,077. 1 Claim. (Cl. 144—115.)



A device of the class described, comprising a rollingly mounted casing open at the bottom, a container removably held in said casing, partially closing the bottom thereof and projected at its upper part from end to end of the casing, a scraper rotatably mounted above the open part of said casing, and formed of curved spring blades, means for adjustment of said scraper vertically, and means for rotating said scraper.

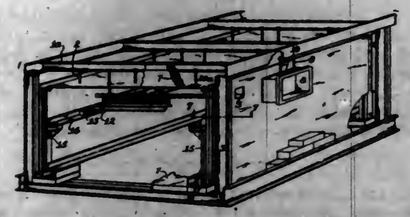
1,752,157. WALL STRUCTURE FOR BAKE OVENS AND THE LIKE. EUGENE OSCAR ENGELS, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Oct. 13, 1928. Serial No. 312,289. 2 Claims. (Cl. 72—24.)

1. An oven framework including upright supporting members and rails thereon in vertically spaced relation, panels closing the space between the rails and means for removably securing said panels in position while permitting removal of any individual panel, said fastening means comprising an exterior finishing strip, bolts holding the rails, panels and finishing strips in clamping relation, a panel-supporting bar carried by the bolts, a spring member also carried by the bolts and having its marginal edges engaging the panel and urging the panels outwardly against the finishing strip, a clip of easily bendable material secured to and engaging the panel-supporting bar, winged flanges on said clip overlapping the outer faces of the panel margins, said clip normally concealed by the finishing strip



and arranged to hold the panels in place on said bar after the finishing strip is removed, said winged flanges adapted to be bent outwardly to permit removal of designated panels.

1,752,158. OVEN. EUGENE OSCAR ENGELS, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Oct. 13, 1928. Serial No. 312,290. 5 Claims. (Cl. 107—57.)



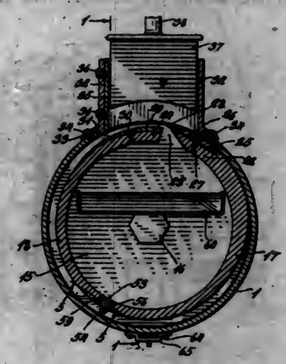
4. In an oven of the class described, a baking chamber formed of a crown or roof comprising a plurality of panel sections assembled edge to edge, expansion joints uniting the adjacent edges of successive sections, suspension rods sustaining said crown sections, and side wall members of sheet metal secured to the longitudinal edges of said crown sections, in substantially suspended relation thereto, for the purposes set forth.

1,752,159. WALL CONSTRUCTION FOR BAKE OVENS AND THE LIKE. EUGENE OSCAR ENGELS, Saginaw, Mich., assignor to Baker Perkins Company, Inc., Saginaw, Mich., a Corporation of New York. Filed Oct. 29, 1928. Serial No. 315,643. 4 Claims. (Cl. 107—57.)



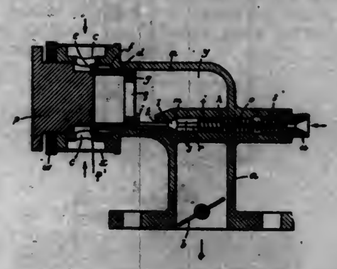
1. A bake oven including a baking chamber whose side wall is formed with a slot, cover plates having openings, heating elements registering with said openings and projecting in spaced relation through said slot and into said baking chamber, said elements with their respective plates adapted for independent adjustment of said spaced relation in the direction of the length of said slot, independently removable closure panels for said slot between said cover plates, and fastening means for securing said plates and panels to said side wall.

1,752,160. SLICING AND GRINDING MACHINE. OTTO EBL, Denver, Colo. Filed July 16, 1928. Serial No. 293,257. 3 Claims. (Cl. 146—92.)



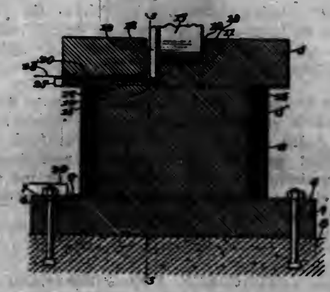
1. In a machine of the class described, a cylinder having one end closed and the other open, a hollow rotor located within the cylinder and mounted for rotation about the axis of the cylinder, the wall of the rotor having an elongated opening extending parallel with the axis of rotation, one side of the opening having a groove adapted to receive a screw, a cutter blade holder located in the opening, said holder having one side provided with a groove that supplements the groove in the side of the opening for the purpose of enclosing the screw, the other side of the holder having a plurality of transverse spaced cuts adapted to receive cutter blades, cutter blades in the cuts and means for preventing the blades from moving longitudinally in the cuts.

1,752,161. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. HENRY EDWARD FAIRBROTHER and EDMUND CHARRINGTON, London, England. Filed Feb. 25, 1926, Serial No. 90,639, and in Great Britain May 11, 1925. 3 Claims. (Cl. 261—50.)



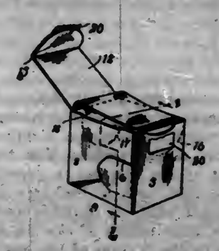
1. In an apparatus of the character described, the combination of a tubular casing having an open end, a mixture discharge end and a mixing chamber between said ends, said casing also having in its lateral wall adjacent its open end a series of radially disposed air admission ports of which the opposite ends are respectively on the outer face and the inner face of said wall, an open-ended tubular air valve slidably mounted within the casing between the said open end and the mixing chamber, a plugging member adjustably mounted on the open end of the casing and forming with said lateral wall a passage for the flow of air from the inner ends of said ports in a direction away from the said open end of the casing and towards the air valve, said plugging member having a projecting nose part adapted to extend within and obturate the outer end of the air valve when the engine is at rest and for a predetermined period at the starting of the engine, a fuel supply duct having an outlet arranged to discharge fuel within the mixing chamber in a direction towards the said open end, a spring-pressed needle valve slidably mounted in and normally closing the fuel valve, said needle valve having means extending into the path of movement of and engaged by the air valve for opening the fuel valve when the air valve is moved by suction of the engine toward open position, the said needle valve opening means and air valve being so related that the fuel valve is partially opened before the air valve opens said air passage.

1,752,162. CAR-RETARDING RAIL. CHARLES E. FEHRINGER and VIRGIL M. LANE, East St. Louis, Ill. Filed May 12, 1927. Serial No. 190,825. 16 Claims. (Cl. 188—62.)



5. A retarder for interposition between the sections of a track rail to form a continuation thereof comprising a body portion consisting of an electromagnet having arranged in the upper part thereof a normally inactive circuit closing means therefor, adapted to be engaged by the flange of a wheel travelling over the magnet to close the circuit for the latter thereby providing for the energizing of the magnet to cause the latter to attract the wheel to retard travel of the latter as it passes over the magnet, said body formed below its upper face with a tread surface for the wheel and further formed with a channel depending below the tread surface for the passage of the wheel flange, said passage having said means arranged at the bottom thereof.

1,752,163. CONTAINER FOR SURGICAL BANDAGES. BRADFORD B. FLINT, Glens Falls, N. Y. Filed Jan. 21, 1928. Serial No. 248,395. 1 Claim. (Cl. 206—52.)



A container for bandage rolls comprising a blank cut to provide a bottom, back wall and a front wall, side flaps integrally connected respectively to the bottom, back and front walls, auxiliary cover flaps carried by the side flaps of the back walls, one of the cover flaps having tabs carried thereby, a main cover connected with the back wall, the side flaps of the front wall having slots therein having curved portions, tongues carried by the side flaps of the back wall and adapted to engage the slots when the blank is folded into container form with the side flaps overlapped, said tongues being separated from the side flaps of the back wall by kerfs adapted to engage said

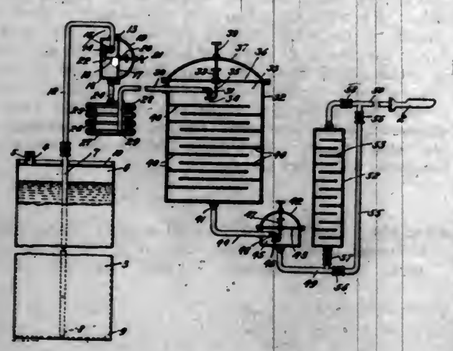
curved portions, the auxiliary cover flaps being adapted to close the upper end of the container and upon which a portion of the bandage roll rests, said main cover being foldable upon the auxiliary covers to maintain a portion of the bandage roll engaged between said auxiliary cover flaps and the main cover.

1,752,164. PROCESS FOR ORNAMENTING SURFACES. DAVID M. FLOURNOY and PERICLES D. GEORGE, St. Louis, Mo. Filed July 28, 1927. Serial No. 209,183. 5 Claims. (Cl. 91—70.)



1. The process of producing an ornamental water proof cloth, which comprises impregnating woven silk fabric with a liquid composition coagulable to form a flexible water proof material and applying to said product after the composition has been coagulated, a coating of a coagulable mixture containing treated China wood oil and promptly subjecting said coating to heat.

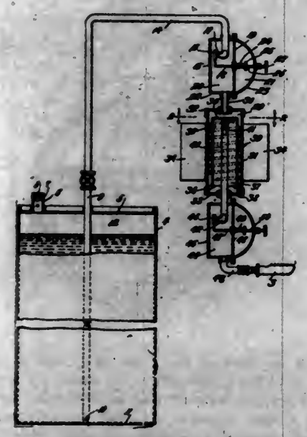
1,752,165. APPARATUS FOR PREPARING HYDROCARBON MIXTURES FOR COMBUSTION. REID G. FORD, Scarsdale, N. Y., assignor, by direct and mesne assignments, to Vapyre Corporation, Pleasantville, N. Y., a Corporation of New York. Filed Oct. 18, 1926. Serial No. 142,176. 1 Claim. (Cl. 158—53.)



The combination with a tank containing a supply of liquid hydrocarbon mixture, and a burner, of means for gasifying the liquid hydrocarbon comprising a heat absorption chamber, a pipe leading from the bottom of the tank to the top of the chamber, a pressure regulator interposed in the pipe, and a discharge pipe for the gas vertically arranged with the chamber and connected with the burner, the inlet orifice of the discharge pipe being relatively close to the bottom of the chamber so that the gas entering the inlet orifice will pass through and entrain liquid hydrocarbon on the bottom of the chamber.

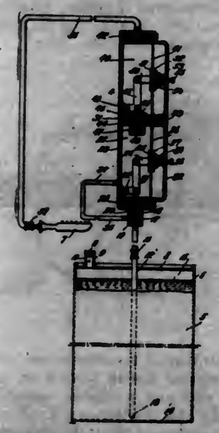
1,752,166. APPARATUS FOR PREPARING HYDROCARBON MIXTURES FOR COMBUSTION. REID G. FORD, Scarsdale, N. Y., assignor, by direct and mesne assignments, to Vapyre Corporation, Pleasantville, N. Y., a Corporation of New York. Filed May 10, 1929. Serial No. 361,941. 5 Claims. (Cl. 158—53.)

1. In an apparatus of the character described including a tank for containing a liquid hydrocarbon mixture, and a reduction valve connected with the tank, a gasifying chamber comprising a housing into the top part of which the reduction valve discharges, a tubular guard member located within the housing, said guard member



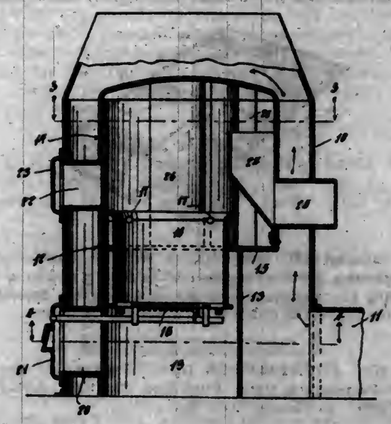
being closed at its upper end and open at its lower end in the lower part of the housing, and a discharge pipe for the chamber having its inlet orifice in the upper part of the guard member.

1,752,167. APPARATUS FOR PREPARING HYDROCARBON MIXTURES FOR COMBUSTION. REID G. FORD, Scarsdale, N. Y., assignor, by direct and mesne assignments, to Vapyre Corporation, Pleasantville, N. Y., a Corporation of New York. Filed July 25, 1929. Serial No. 380,798. 4 Claims. (Cl. 158—53.)



1. In combination with a supply of liquid hydrocarbon and a gas burner, an apparatus for converting liquid hydrocarbon into gas comprising a chamber, a pipe leading from the supply of liquid hydrocarbon into the chamber, a reducing valve for controlling the passage through the pipe, a by-pass leading from the chamber to a point adjacent to the burner and then back into the chamber, said by-pass serving to conduct liquid hydrocarbon to the point adjacent to the burner and to conduct the resulting gas into the chamber, a dry gas chamber, a passageway between the two chambers, a reducing valve for controlling the passageway, and a pipe leading from the dry gas chamber to the burner.

1,752,168. HOT-AIR FURNACE. HARRY KINGSLEY FLOWERS, Oakland, Calif. Filed June 4, 1928. Serial No. 282,620. 1 Claim. (Cl. 126—99.)



A furnace of the class described comprising a casing, a heating unit within the casing in spaced relation to the side wall thereof, said heating unit having a lower section eccentric with respect to the casing and an upper section on said lower section eccentric with respect to the first mentioned section and concentric with respect to the casing, said upper section being closed at the top and having a base wall, a firepot disposed partly above and below said wall and thus in both sections, said firepot at the upper edge having an outwardly extending marginal portion, air blast openings in said marginal portion, air ducts through the upper section having their entrances outwardly of the lower section and their exits in communication with the casing above said top, the lower portion of the first mentioned section constituting an ashpit, a duct providing communication through the casing with said ashpit, means providing a fuel supply passage through the casing and upper section communicating with the latter above the firepot, and a flue from the upper section through the casing having a down portion and an outlet portion, said down portion being open at the top adjacent said top.

1,752,169. CONCENTRATOR. FORREST D. GOODY, Denver, Colo. Filed June 22, 1926. Serial No. 117,836. 5 Claims. (Cl. 209—458.)



1. An ore concentrating apparatus, comprising a flume box adapted to receive placer gravel and water, said box having a slanting bottom, and means for concentrating the ore particles to the bottom of said box, said means including a metal screen having short upright walls defining diamond shaped openings therebetween, said screen being so secured to said box that the short upright walls are inclined toward the in-flowing gravel and water.

1,752,170. STARTING AND SELECTING MECHANISM FOR AUTOMATIC MUSICAL INSTRUMENTS. CLIFFORD H. GREEN, Grand Rapids, Mich. Filed Sept. 15, 1921. Serial No. 500,802. 31 Claims. (Cl. 194—9.)

29. In a controlling mechanism for motor operated musical instruments, the combination of a switch for controlling the circuit of the motor of said instrument, a bodily movable latch for engaging said switch to open the same, controllable means operated through the operation of said



instrument by said motor for bodily moving said latch into switch-engaging position, and optionally actuable means for controlling the engagement of said latch with said switch.

1,752,171. MULTIRECORD CONTROLLER. CLIFFORD H. GREEN, Grand Rapids, Mich., assignor to National Piano Mfg. Co., Grand Rapids, Mich., a Corporation of Arizona. Filed Oct. 13, 1923. Serial No. 668,266. 54 Claims. (Cl. 84—120.)



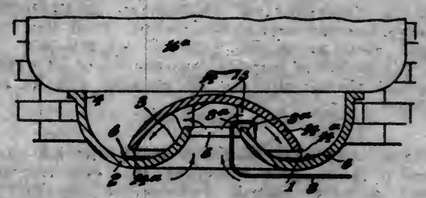
13. The combination, with an automatic musical instrument having note-sounding devices, pneumatically operable means for actuating them, and an air-pump for supplying pneumatic power for operating said actuating means, of a device separate from said instrument but connected therewith for controlling the operation of said actuating means and comprising means for supporting and propelling a record, and means for controlling the operation of said air-pump and the playing of said record upon said instrument.

1,752,172. COLLAPSIBLE BONNET. FRANK GUST, Chicago, Ill. Filed Nov. 2, 1928. Serial No. 316,709. 8 Claims. (Cl. 2—187.)



1. A collapsible bonnet comprising a quadrilateral sheet of rainproof material containing pleats extending from one side to the opposite side across said sheet and being folded over centrally across the pleats, having the joining side portions of the sheet secured together and said central folded-over part contracted to provide a peak for the bonnet, and being of proper size to protect the head and shoulders.

1,752,173. FUEL-OIL BURNER. JOHN EDWARD HACKFORD, London, England. Filed Oct. 29, 1927, Serial No. 229,742, and in Great Britain Nov. 4, 1926. 4 Claims. (Cl. 158—92.)



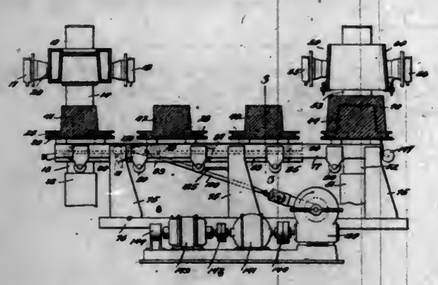
1. An oil burner comprising, in combination, a shallow trough of curved cross-section, means for supplying oil

to the interior of said trough so as to maintain a thin film of non-vaporized oil at the bottom of said trough, and an inlet for cold air, said inlet being formed on the inside by the inside wall of the trough and on the outside by a curved deflector which extends over and in spaced relation to the upper edge of the inside wall of the trough and downwards into the trough to a position where its bottom edge is in close proximity to the surface of the film of oil, thus forming a narrow outlet for the cold air which is thereby caused to sweep transversely and in the form of a blanket across the whole burning surface of the oil outside the bottom edge of the deflector so as to maintain partial combustion on the surface only of the oil by removing the products of such partial combustion as fast as they are formed.

1,752,174. PHOTOGRAPHIC CHEMICAL PROCESS AND MATERIAL. OLIVER ANTRUM HALL, Seattle, Wash., assignor to Brown Line Process Company, a Corporation of Washington. Filed May 17, 1927. Serial No. 192,165. 10 Claims. (Cl. 95—7.)

1. The process of photographic printing which comprises producing a latent image on a surface sensitized to light with the reaction product of diazotized pyridine sulfonic acid with a tartaric acid solution of a sodium salt of 1 amino, 2 naphthol, 6 sulphonic acid, tartar emetic, and nickelous sulfate, and then treating the latent image so formed with an alkali.

1,752,175. MECHANISM FOR FORMING AND HANDLING MOLDS. EDWARD HARMES, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company, a Corporation of New Jersey. Filed Oct. 27, 1926. Serial No. 144,515. 6 Claims. (Cl. 22—31.)



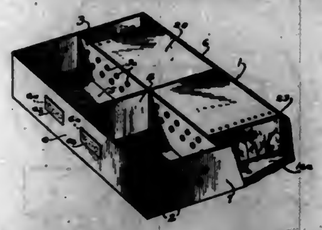
1. Apparatus for forming and handling molds, including drag mold forming mechanism, cope mold forming mechanism, an assembling and transfer table from said drag mold forming mechanism to said cope mold forming mechanism for intermittently moving a series of drag molds thereto, means for stopping said series and positioning the leading drag mold thereof with respect to said cope mold forming mechanism in position for having a cope mold accurately deposited thereon, and means for positioning a cope mold with respect to said leading drag mold and depositing said cope mold thereon.

1,752,176. METHOD OF PREPARING EMULSIONS. KENZO HATTORI, Saitama-Ken, Japan. Filed Mar. 31, 1926. Serial No. 98,924. 2 Claims. (Cl. 252—6.)

1. The method of preparing an emulsion of oil which comprises mixing with the oil protalbic acid as an emulsifier.

1,752,177. SHIPPING BOX FOR BABY CHICKS. ALBERT B. HILKEMEYER, Westphalia, Mo. Filed Oct. 31, 1927. Serial No. 230,024. 2 Claims. (Cl. 119—33.)

1. A baby chick shipping box having a compartment with an inner lining formed from a single sheet of material folded to provide a bottom, sides and top, the top having a depending flange along its free side edge to overlap one of the sides of the lining, the sides and top terminating short of the front end of the bottom so that



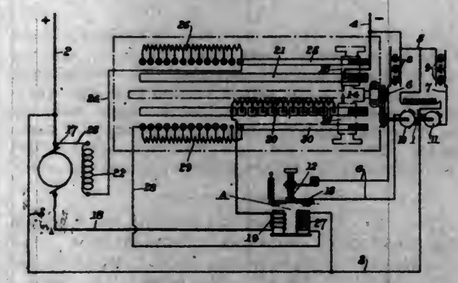
when applied the compartment will be double-walled throughout a portion only thereof to form a warming and a cooling chamber for the chicks, and a curtain depending from the top of the lining to separate said chambers.

1,752,178. FOUNTAIN-PEN GUN. FERNAND L. HUGUENIN, Portsmouth, Ohio. Filed Sept. 24, 1928. Serial No. 307,930. 10 Claims. (Cl. 42—1.)



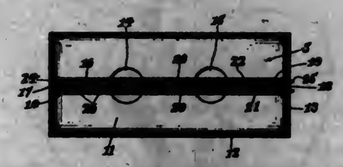
1. A firearm comprising a cylindrical barrel provided therein slightly in advance of its inner end a seat for a cartridge flange, said barrel further formed with a cartridge extractor notch extending from said seat to its inner end edge, a hollow cylindrical body portion provided in proximity to its forward end with a partition for closing the inner end of the barrel and further formed adjacent its forward end with a longitudinal slot, said body portion and barrel having interengaging means for detachably connecting them together forwardly of the partition, a shiftable firing pin carried by said partition, a spring controlled hammer slidably connected with said body portion rearwardly of said partition and including a head for shifting said pin, a spring controlled, hammer setting trigger disposed in the slot of said body portion, and having its rear end normally positioned in the path of said head, said trigger at a point between its transverse median and its forward end provided with apertured means extending into the partition, means for pivotally connecting the apertured means to the partition, and the controlling spring for the trigger bearing thereon forwardly of said apertured means.

1,752,179. ELECTRIC-MOTOR-CONTROL SYSTEM. HENRY VINCENT JAMES, Radlett, England. Filed May 12, 1927, Serial No. 190,940, and in Great Britain June 9, 1926. 2 Claims. (Cl. 172—288.)



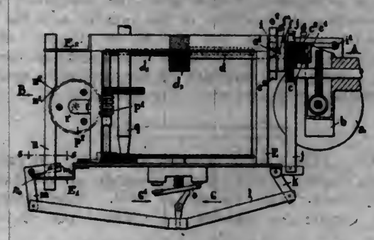
1. An electric motor control system of the type wherein a motor-driven speed regulating means or controller for a main power motor is governed by switches, comprising a trip switch controlling the continuity of the circuit for the controller motor, an electromagnet coil in the main power circuit and adapted under overload conditions of said circuit to operate the trip switch and thereby interrupt the controller motor circuit, a compensating coil having its field opposed to that of the first mentioned coil, and means for simultaneously increasing the energization of the compensating coil and decreasing the energization of the main motor field.

1,752,180. STRINGED MUSICAL INSTRUMENT. LOUIS CURTIS JOHNSON, Fayette, Ala. Filed Sept. 11, 1928. Serial No. 305,211. 4 Claims. (Cl. 84—263.)



1. A stringed musical instrument comprising a rectangular hollow body portion having a pair of spaced, opposed openings in the top thereof, a fretted supporting bar secured upon the top, and of the same length as the length of the body portion, said bar extending across said openings at the diametric center of the latter and of a width less than the diameter of the openings, a pair of spaced bridge pieces mounted upon the upper face of the bar transversely of the latter, strings anchored at one end to one end of the bar and seating on said bridge pieces, and tuning keys connected to the other end of the bar and to the other end of the strings.

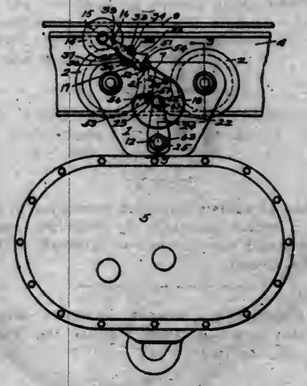
1,752,181. WINDING UP OF SPRING-DRIVEN DEVICES. NEVILLE GEORGE JOHNSON, Hove, England. Filed Dec. 11, 1928, Serial No. 325,279, and in Great Britain Jan. 4, 1928. 7 Claims. (Cl. 185—40.)



1. In talking machines and other spring-driven devices a driving spring, an electric motor for winding up the driving spring, an automatic electric switch for closing the circuit of the electric motor when the driving spring is to be wound up and for opening it when the driving spring is wound up, a member capable of controlling the closing of the switch in dependence upon the unwinding of the driving spring and a transmission between the driving spring and the electric motor, which transmission includes means capable of disconnecting the electric motor from the driving spring by a mechanical displacement in the said transmission under the action of the resistance offered by the spring to its being further wound up when the same is nearly wound up.

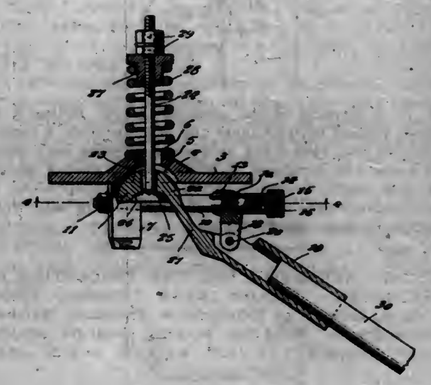
1,752,182. CURRENT COLLECTOR FOR HOISTING APPARATUS. EARL R. JONES, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 28, 1928. Serial No. 329,040. 5 Claims. (Cl. 191—45.)

1. A current collector comprising contact means adapted to co-act with a conductor, and supporting means for said contact means including an adjustably-mounted member, and a spring, said spring being mounted for angular



as well as lateral adjustment on said member, whereby said contact means may be independently adjusted in a plurality of planes relative to said conductor.

1,752,183. TAIL SKID FOR AIRCRAFT. GEORGE KELL, Louisville, Ohio. Filed Nov. 4, 1929. Serial No. 404,711. 4 Claims. (Cl. 244—2.)



1. The combination with the tail of an air craft, of a disc fixed thereto, an arcuate guide rod connected with the disc, a sleeve slidable on the guide rod, means for yieldably interlocking the sleeve with the guide rod, a head pivotally connected with the sleeve, means for yieldably connecting the head with the disc, and a ground engaging wheel connected with said head.

1,752,184. DYE. WOLF KRITCHEVSKY, HAROLD C. PRUTSMAN, and ELLIOTT MORRILL, Chicago, Ill., assignors to Rit Products Corporation, Chicago, Ill., a Corporation of Delaware. Filed Dec. 3, 1928. Serial No. 323,564. 7 Claims. (Cl. 8—6.)

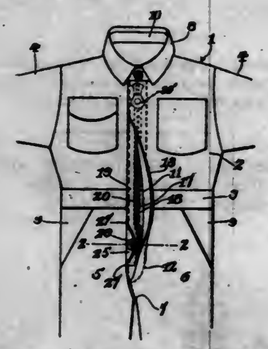
1. A composition of matter adapted to be dispensed in packages and to be combined with a liquid for use, comprising sulphonic acid salt of an alkylated polynuclear hydrocarbon residue possessing a high wetting power, and a water soluble dye.

1,752,185. ACOUSTIC APPARATUS, PARTICULARLY SIGNALING APPARATUS. HEINRICH KÜCHENMEISTER, Berlin, Germany. Filed Oct. 4, 1926, Serial No. 139,547, and in Germany Oct. 28, 1925. 17 Claims. (Cl. 116—24.)



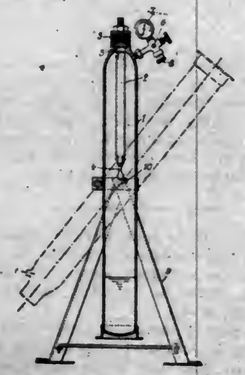
1. A method of audible signaling consisting in repeatedly exciting a sound generator by individual sound impulses that succeed one another at intervals of less than one third of a second.

1,752,186. GARMENT. SAMUEL LABOVITZ, Minneapolis, Minn. Filed Aug. 30, 1929. Serial No. 389,502. 6 Claims. (Cl. 2—79.)



1. In a garment of the open front type having a fly opening formed with an inner and an outer wall, a closure means for said open front, said walls opposing each other, said outer wall arranged inwardly of said closure means, and said walls having coacting means independent of said closure means for detachably connecting said walls together to close the fly opening.

1,752,187. APPARATUS FOR THE PRODUCTION OF HYDROGEN. FERNAND EMILE LEFEBVRE, Clichy, France, assignor to L'Oxhydrique Francaise, Malakoff, Seine, France. Filed July 16, 1928, Serial No. 292,985, and in France July 18, 1927. 3 Claims. (Cl. 23—282.)



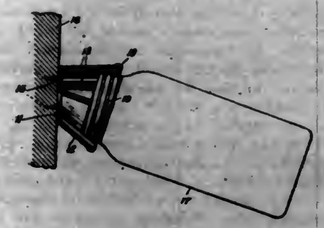
1. An apparatus for the production of hydrogen which comprises a pivotally supported closed vessel adapted to withstand the pressure of the hydrogen generated therein and to contain a caustic alkali solution, a tube adapted to contain a pulverized silicon compound mounted within said vessel in the upper part thereof, said tube having a number of discharge ports at its lower end and a distributing valve freely suspended at said lower end of the tube and adapted to swing and control said ports when an oscillating motion is imparted to said vessel.

1,752,188. MECHANICAL TIME FUSE. PAUL LIEBERGELD, Bad Thal, Germany. Filed Oct. 25, 1928, Serial No. 315,078, and in Sweden Sept. 15, 1928. 2 Claims. (Cl. 102—36.)



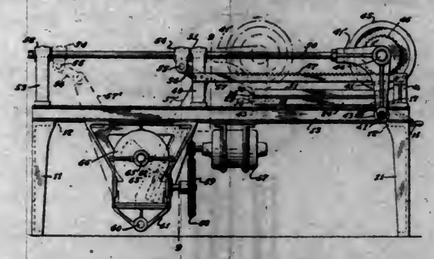
1. A mechanical time fuse for projectiles, comprising in combination a clockwork mechanism, a rotary shaft in the said mechanism, a pointer mounted on the shaft, a first securing device for securing the pointer in the inoperative position and capable of releasing the pointer at the moment of firing, a time determining ring capable of coacting with the said pointer, a gap in the time determining ring, means for causing the pointer to engage through the said gap on the pointer coming opposite the gap, an igniting device capable of being secured in the inoperative position and of being released by the said pointer, a second securing device for the pointer positioned between the pointer and the time determining ring and capable of remaining effective after the moment of firing for preventing the coaction of the pointer and the time determining ring, but not the rotary motion of the pointer, for a period of the time which is sufficient for preventing a premature explosion of the projectile within a predetermined radius of safety, as set forth.

1,752,189. JAR-COVER REMOVER AND FASTENER. JOSEPH LOTZ, Euclid, Ohio, assignor of one-half to Phillip Becker, jr., Cleveland, Ohio. Filed Mar. 28, 1929. Serial No. 350,761. 1 Claim. (Cl. 81—3.1.)



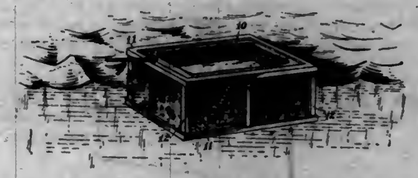
A container cover remover and fastener consisting of a hollow element in the form of a frustum of a cone presenting a conical wall, and an end wall disposed in a plane at an angle to the plane of the base of the cone, said conical wall having spaced jaws in the form of cross-sectionally triangular ribs, said end wall having holes for the reception of fastening elements whereby to fixedly secure said element to a suitable support, and said jaws being adapted to grip said container cover in the removing and fastening operations.

1,752,190. BACON FORMING OR SHAPING MACHINE. HOWARD C. MASSEY, Kansas City, Mo. Filed Apr. 23, 1929. Serial No. 357,489. 11 Claims. (Cl. 100—57.)



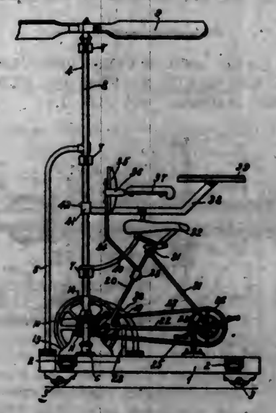
4. A bacon-forming machine including a frame, a main roller reciprocatingly mounted therein and an adjustable bacon mold mounted upon the frame and disposed to hold the bacon with the top exposed to the main roller to permit said roller to compress the bacon into the mold, said mold having a fixed base and two spring projected side walls, and means operable with the roller for simultaneously moving the walls toward each other as the main roller is moved over the mold in one direction, said side walls being released as the roller is moved in the opposite direction due to the action of the spring tension thereon to permit free access to the formed bacon.

1,752,191. SEA TUB. JERE C. MORAY, New York, N. Y. Filed July 16, 1929. Serial No. 378,739. 4 Claims. (Cl. 4—171.)



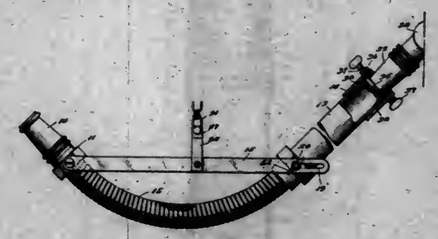
1. An aquatic device comprising a body in the form of a tub made of soft and buoyant material, and a rigid buoyant structure applied to the body to reinforce the same.

1,752,192. FAN. FIACRO MORENO, Torreon, Mexico. Filed Apr. 30, 1928. Serial No. 273,956. 1 Claim. (Cl. 230—243.)



A device for the purpose set forth comprising a platform, a tubular frame arising from one end thereof, a shaft guided through the frame and having a bearing support on the platform and said shaft having a fan on the upper end thereof, a gear on the shaft, intermeshing gears coengaging with the shaft gear, a sprocket on the shaft of one of the intermeshing gears, a pedal operated sprocket wheel having an endless chain trained thereover and trained over the first mentioned sprocket and a seat above the last mentioned sprocket.

1,752,193. FIRE NOZZLE. JOSEPH O'HANLON, Brooklyn, N. Y. Filed June 27, 1928. Serial No. 288,743. 18 Claims. (Cl. 299—78.)

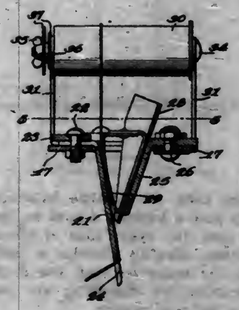


1. A fire nozzle comprising a tip, a spirally wound flexible metallic tube on said tip of diameter substantially equal to the internal diameter of the tip, and a coupling on the other end of the tube, in combination with adjustable support means attached to the tube adjacent each end adapted to fix the distance between the ends of said tube.

1,752,194. PROCESS OF PREPARING AN OXYCHLORIDE CEMENT. JØRGEN ULRIK AHLMANN OHLSEN, Copenhagen, Denmark. Filed Nov. 12, 1924, Serial No. 749,559, and in Denmark Nov. 13, 1923. 2 Claims. (Cl. 106—29.)

1. The process of preparing an oxychloride concrete which comprises mixing diatomaceous earth with liquefied bituminous materials normally solid, in quantity insufficient to change the powdery characteristics of the earth, and then mixing the resulting product with an oxychloride cement.

1,752,195. TENSION DEVICE FOR WINDING MACHINES. DAVID PALIN, Pawtucket, R. I. Filed July 20, 1928. Serial No. 294,166. 2 Claims. (Cl. 242—149.)



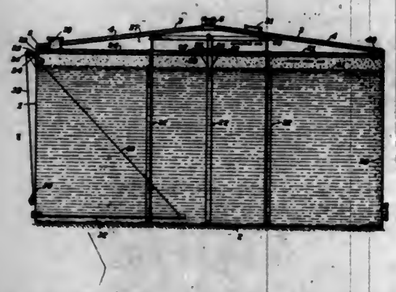
2. A tension device for a winding machine comprising a support, a pair of convergent members carried by the support and forming a V-shaped recess, the lower end of which is open and one of the members having a notch in its lower end whereby a thread can pass through the notch and through the recess and a wedge-shaped weight in the recess and pressing the thread against one of the convergent members.

1,752,196. RADIO APPARATUS. RONALD E. PATRIE, Loretto, Mich. Filed Jan. 16, 1926, Serial No. 81,839. Renewed Jan. 7, 1930. 6 Claims. (Cl. 250—14.)



1. A device of the class described including a body casing, a socket piece threaded in one end thereof, a vacuum tube carried by the socket piece, batteries within the casing, means forming connection between the batteries and tube, a rheostat control carried by the socket and a collar carried by the socket and arranged above the rheostat control rim.

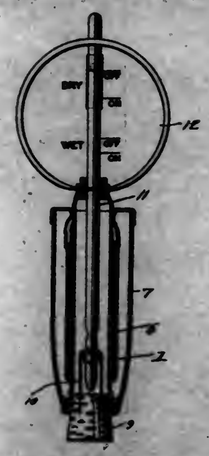
1,752,197. STORAGE TANK. JOHN F. PATTERSON, Warren, Ohio, assignor to The Warren City Tank & Boiler Company, Warren, Ohio, a Corporation of Ohio. Filed Apr. 27, 1929. Serial No. 358,639. 6 Claims. (Cl. 220—85.)



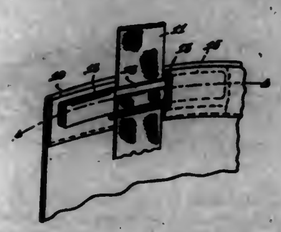
1. A storage tank for volatile hydrocarbons comprising side walls and a bottom, a roof on said tank, and a deck secured near the upper edge of the side walls, said deck having one opening therein, a baffle plate above said opening, the space between the deck and the roof forming a chamber for expanding air, and conservation vent valves in the roof proper.

1,752,198. TEMPERATURE INDICATOR FOR HAIR-CURLING DEVICES. ARNAUD E. PAUSSER, Philadelphia, Pa. Filed Nov. 18, 1926. Serial No. 148,174. 3 Claims. (Cl. 219—24.)

1. In a hair-curling apparatus, an electrical heating element whereby the curled hair is heated, and a temperature indicator comprising a second electrical heating element electrically connected to the first mentioned heating element, and a heat-responsive indicator associated with said second heating element to indicate a predetermined temperature condition at the curled hair.

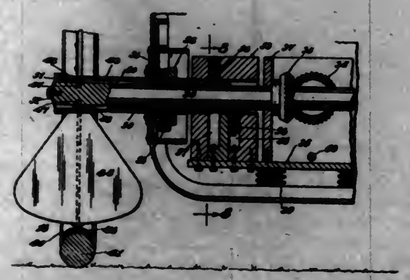


1,752,199. TROUSERS SUPPORT AND ATTACHING MEANS. CARL F. PERTHEL, Northfield, N. H. Filed Aug. 22, 1928. Serial No. 301,844. 3 Claims. (Cl. 241—25.)



1. Means for attaching a supporting strap to a garment comprising a garment carried member including spaced end sections substantially U shaped cross section and a bar connecting said sections, spaced pockets carried by the garment to receive the end sections of the garment carried member, and a strap carried member detachably engaged with the end sections of the garment carried member.

1,752,200. LAND AND WATER VEHICLE. GAETANO RAIMONDI, New York, N. Y. Filed Apr. 12, 1929. Serial No. 354,553. 9 Claims. (Cl. 115—1.)



6. In combination with the driven axle of a vehicle, a wheel mounted thereon, propelling blades pivotally mounted within said wheels for movement to an idling position within the plane of said wheel and to an operative position at right angle thereto, and means for successively moving said blades to idling and operative positions during each revolution of said axle.

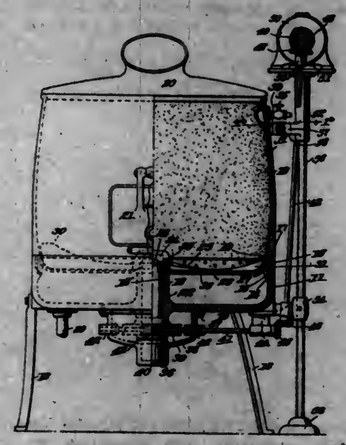
1,752,201. SOUND REPRODUCER FOR PHONOGRAPHS. FRANK B. REED, New Bedford, Mass. Filed Aug. 27, 1928. Serial No. 302,224. 5 Claims. (Cl. 274—25.)



1. A phonograph reproducer comprising a housing, a pair of flexible diaphragms mounted in said housing, a stylus bar fixedly attached to one of said diaphragms, and an adjustable screw threadedly carried by the other of said diaphragms and bearing against the fixed end of said stylus bar whereby turning of the screw will vary the flex of said diaphragms.

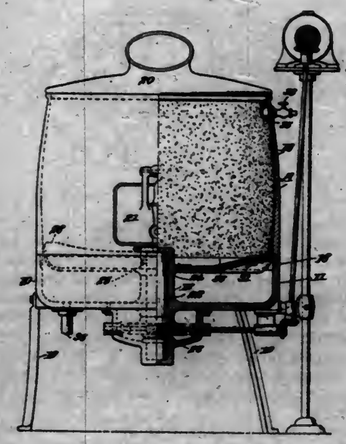
4. In a phonograph reproducer having a diaphragm, a stylus bar wholly supported by said diaphragm and being provided with a needle receiving socket at its free end.

1,752,202. AGITATING, ETC., MACHINE. HENRY ROBINSON, New York, N. Y. Filed Aug. 21, 1929. Serial No. 387,472. 17 Claims. (Cl. 259—107.)



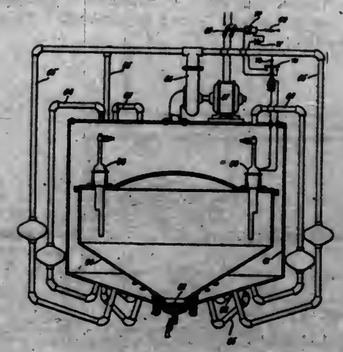
1. A machine of the class described having a centripetally impulsive agitating means having an arm-like projection on one side of its axis, said projection extending generally radially and laterally, said projection being laterally dished and adjacent its outer end having a portion higher than the part thereof between the same and said axis, said part being relatively narrow whereby it does not affect the motion of material during agitation, substantially as described.

1,752,203. AGITATING, ETC., MACHINE. HENRY ROBINSON, New York, N. Y. Filed Aug. 21, 1929. Serial No. 387,473. 9 Claims. (Cl. 259—101.)



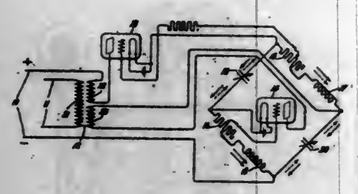
1. In a machine of the class described, a centripetally impulsive agitating means having an arm-like projection on one side of its axis, said projection generally extending radially and laterally and being laterally dished, and means carried by said projection serving to support the material engaged by the projection, substantially as described.

1,752,204. VAPOR ELECTRIC DEVICE. CAMILLE A. SARDAM, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 30, 1925. Serial No. 40,654. 7 Claims. (Cl. 250—27.5.)



1. The combination of means forming a vapor chamber, an anode external to and insulated from said means, and means controlled by the temperature of said anode for regulating the temperature of said chamber.

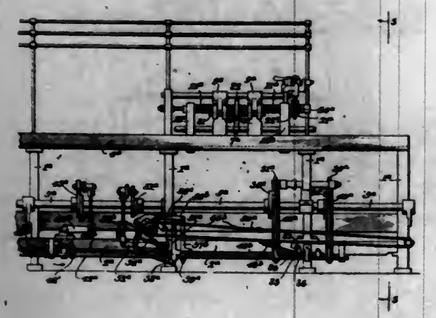
1,752,205. POWER-CONVERTING APPARATUS. CAMIL A. SABBAH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 27, 1928. Serial No. 315,577. 6 Claims. (Cl. 175—363.)



1. The combination of a pair of electric valves, an oscillatory circuit including reactors and capacitors connected alternately in series with one another and provided with opposed terminals, a direct current circuit connected between said opposed terminals through means including one of said electric valves, and means for subjecting the other of said electric valves successively to the resultant difference between the reactance and capacitor voltage drops of said oscillatory circuit and to the resultant sum of said voltage drops.

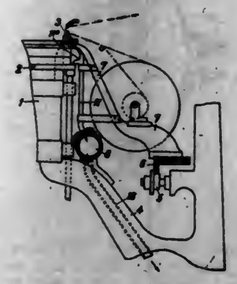
6. The combination of a pair of electric valves each provided with a control grid, an oscillatory circuit including pairs of resistance, reactance and capacity elements connected in series with one another, a direct current circuit connected through means including one of said valves to a terminal at the junction between one of said resistance elements and one of said capacity elements, means for subjecting the grid of said valve to a potential dependent on the voltage drop of said resistance element, means for connecting the other of said valves between terminals located respectively at the junction of the other of said capacity elements with one of said reactance elements and at the junction of the other of said resistance element with said first mentioned capacity element, and means for subjecting the grid of said other valve to a potential drop dependent on the voltage drop of said other resistance element.

1,752,206. ATTACHMENT FOR FLAT-KNITTING MACHINES. RICHARD B. SCHLEITER, Philadelphia, Pa., assignor, by mesne assignments, to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed July 25, 1928. Serial No. 295,285. 15 Claims. (Cl. 66—129.)



1. In a straight knitting machine, reciprocating yarn guide carrier rods, a finger supported independently of said yarn guide carrier rods said finger being adapted to be connected to one or more yarn guide carrier rods to reciprocate therewith, and stops arranged to limit the movement of the finger in opposite directions.

1,752,207. MEANS FOR KEEPING KNITTING MACHINES CLEAN. OTTO SEIFERT, Burgstadt, Germany, assignor to Maratti Societe Anonyme, Geneva, Switzerland, a Swiss Company. Filed Aug. 17, 1928, Serial No. 300,301, and in Germany Aug. 22, 1927. 4 Claims. (Cl. 66—168.)



1. In a circular warp knitting machine having rotating yarn feeding means, a suction device for removing dust, fibre and the like comprising an air exhauster, and means for directly applying suction produced by said exhauster to parts of the knitting machine to be kept clean the said means being rotatable with the yarn feeding means.

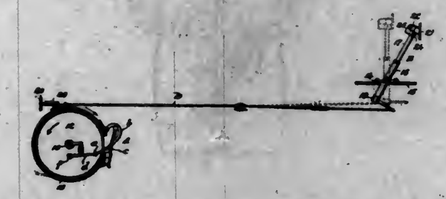
1,752,208. STADIUM CHAIR. JESSE MARKHAM SHELTON, Atlanta, Ga. Filed Mar. 13, 1928. Serial No. 261,379. 1 Claim. (Cl. 155—85.)



A chair for stepped stadiums and the like, comprising, in combination, standards each presenting an enlarged, flanged, horizontal base adapted to be anchored to the rear portion of a tread and contact at its rear edge with the adjacent riser; the leg portion above the tread having an opening to receive a bolt adapted to secure the leg portion to the riser below the tread above so as to bring the standard in contact with the forward edge portion of the upper tread; back-rest supports on the standards; and forwardly and downwardly inclined arms connected to said supports and standards so arranged as not to catch in and tear the clothing of an occupant.

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1,752,209. BRAKE SYSTEM. GEORGE L. SMITH, Washington, D. C., assignor to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed Mar. 15, 1926. Serial No. 94,881. 15 Claims. (Cl. 188—2.)



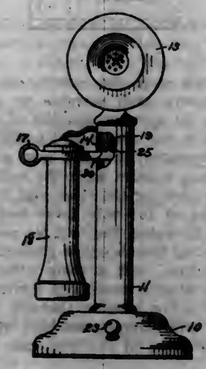
9. The combination with a pair of brakes, of mechanism automatically operable to maintain an invariable ratio between the braking effects of said brakes, and means connected to said mechanism manually operable to vary said ratio.

1,752,210. FABRIC AND THE TREATMENT OF SUBDIVIDED MATERIALS. STANLEY COCHRAN SMITH, London, England. Filed Mar. 31, 1928, Serial No. 266,437, and in Great Britain Apr. 5, 1927. 21 Claims. (Cl. 23—286.)



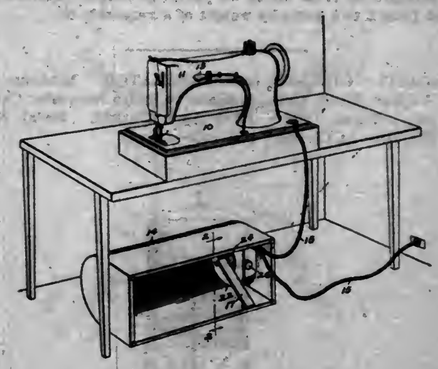
1. In a filter, at least one liquid venting layer of perforate rubber material.

1,752,211. AUTOMATIC TELEPHONE-RECEIVER SIGNAL. ADAM L. SZWAJKART, Chicago, Ill. Filed Jan. 4, 1929. Serial No. 330,163. 1 Claim. (Cl. 179—81.)



A signal device for use upon telephones having stationary contacts within the standards therefor adjacent the receiver carrying arms, a contact member carried by the arms and insulated therefrom designed for contacting engagement with the stationary contacts upon the occasion of their being elevated by the removal of the receivers, and arms upstanding from the hooks in advance of the contacts to prevent access thereto by unscrupulous persons.

1,752,212. CONTROLLING DEVICE FOR ELECTRIC SEWING MACHINES. HUGH M. STEPHENSON, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1928. Serial No. 317,013. 20 Claims. (Cl. 112—218.)



1. A sewing machine having an electric motor for driving the same, a removable cover for said machine, and means secured to said cover for controlling said motor, said controlling means being adapted to be operated when said cover is removed from said machine.

1,752,213. SWITCH. EDWARD D. TREANOR, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 8, 1929. Serial No. 338,515. 9 Claims. (Cl. 200—16.)



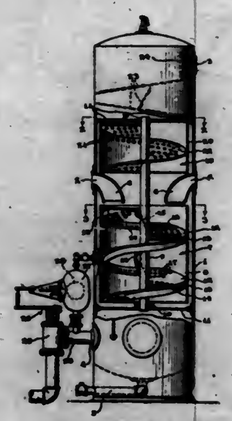
1. A switch including a plurality of fixed contacts, means for connecting together two of said contacts, and means for insulating the remainder of said contacts from each other and from said two contacts, said contacts and said connecting and insulating means being relatively movable.

1,752,214. MANUFACTURE OF BITUMINOUS CONCRETE. LEONARD SCHADE VAN WESTRUM, London, England, assignor to Bitucrete Limited, London, England, a British Company. Filed May 16, 1927, Serial No. 191,989, and in Great Britain May 31, 1926. 2 Claims. (Cl. 106—31.)

1. The process for the manufacture of bituminous concrete, comprising first mixing a dry cement and an aggre-

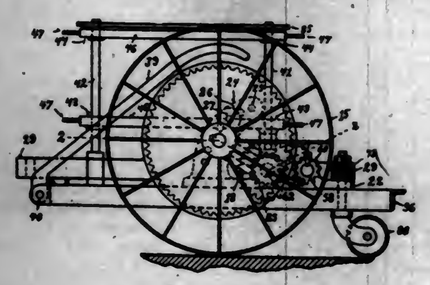
gate in the proportion by weight of from 5 to 20 per cent of cement to from 95 to 80 per cent of the aggregate, and then forming a homogeneous mass by mixing with said mixture from 5 to 20 per cent of the weight of said mixture of a soap formed by heating with dilute aqueous alkali a mixture of from 30 to 50 parts by weight of bitumen and from 2 to 5 parts by weight of a vegetable oil.

1,752,215. OIL AND GAS SEPARATOR. MILLARD F. WATERS, Tulsa, Okla., assignor to Smith Separator Company, Tulsa, Okla. Filed Apr. 9, 1928. Serial No. 268,748. 11 Claims. (Cl. 183—2.7.)



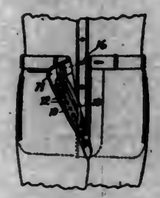
8. In an oil and gas separator tank, a baffle member comprising a rotatably mounted cylinder having a perforated spiral baffle secured within the walls thereof, and about its axis of rotation, the walls of said cylinder being provided with a series of spirally arranged perforations, the remaining area being imperforate, the convolutions of the spiral series of perforations being spaced apart a distance substantially equal to the distance between the convolutions of the spiral baffle.

1,752,216. CORN-HARVESTING APPARATUS. JOSEPH WEBB, Cincinnati, Ohio. Filed Aug. 5, 1926. Serial No. 127,426. 9 Claims. (Cl. 56—102.)



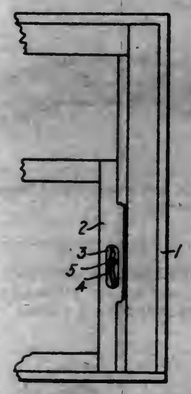
1. Corn harvesting mechanism comprising a supporting frame adapted to move along the corn row, a blade mounted stationarily upon said frame and adapted to engage one side of the members to be severed, a rotary cutter mounted in relation to said blade to sever the members to be severed above said blade and diagonally of the members to be severed and means for deflecting the standing portions of the cut members during the passage of the mechanism.

1,752,217. SHIRT AND TROUSERS HOLDER. SOL BERNARD WEINSTEIN, Greensboro, N. C. Filed Aug. 6, 1929. Serial No. 383,938. 3 Claims. (Cl. 241—7.)



1. An attachment for fastening together the shirt and trousers comprising anchoring means for attachment to one and a detachable fastening element for engagement with the other, and a band slidably engaging the detachable fastening element and having its ends provided with spaced fasteners for detachable connection with said anchoring means.

1,752,218. WINDOW STOP. GEORGE A. WILBUR, Lansing, Mich. Filed July 28, 1928. Serial No. 294,622. 2 Claims. (Cl. 292—240.)



1. In a window stop, the combination with a window frame, of a window sash movable up and down in the frame, a casing let into the upright of the window sash, a lever pivoted in the casing and comprising a cam portion and a leg portion, the said cam portion adapted to move into binding contact with the said frame, a spring attached to the pivot of the lever and having one portion engaging the leg of the said lever and another portion engaging the said casing, the said leg portion of the lever having a fastening thumb screw projecting from the end of said leg portion, and a plate attached to the said upright of the window sash and having a curved slot, the said thumb screw passing through the said slot and being rotatable into clamping contact with the said plate to secure the position of the said cam head against the frame.

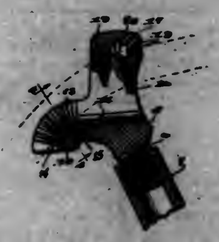
1,752,219. STOCKING AND SOCK HOLDER. OTTO ADAM, Berlin, Germany. Filed Mar. 8, 1928, Serial No. 260,191, and in Germany Mar. 19, 1927. 2 Claims. (Cl. 241—6.)

1. A stocking and sock holder, comprising, in combination, an elastic garter; a loop at one end thereof; a rigid shield connected with the other end of the garter; a flat tongue in said shield and adapted to be coupled with said loop; two separate rigid members, of which one has a slot at one end and the other forms at one end a hook adapted to be put through said slot to hold fast the rim of a



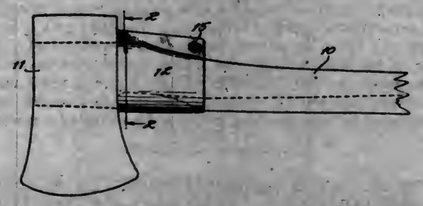
sock or stocking; and a pliable member connecting said two members with one another and passing through a slot in the said shield.

1,752,220. PIPE-BENDING TOOL. ANDREW B. ALLEN, Cincinnati, Ohio. Filed Mar. 12, 1929. Serial No. 346,388. 4 Claims. (Cl. 81—15.)



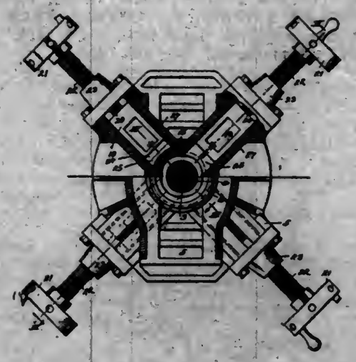
1. In a pipe bending tool, a casting having an attaching shank upon its under face and a longitudinally curved channelled jaw at one end, a second jaw carried by the casting and offset inwardly from the curved jaw, the inner face of the curved jaw having transversely stepped surfaces whereby to permit the pipe to initially expand to an irregular configuration and then forced back into normal configuration during the bending operation.

1,752,221. GUARD. ADOLPH E. ANDERSON and ALFRED ANDERSON, Lindsborg, Kans. Filed Dec. 26, 1924. Serial No. 758,201. 1 Claim. (Cl. 806—37.)



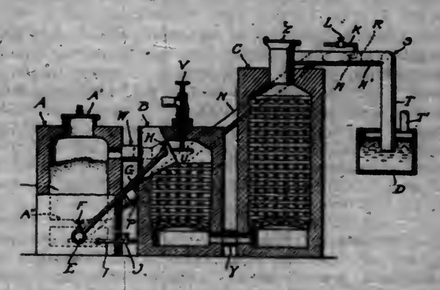
A guard for tool handles formed from a single sheet of metal, trapezoidal in contour, to conform to the shape of said handle, said sheet being bent upon itself to provide a sleeve adapted to be inserted over the handle of the tool in abutting relation with respect to the tool, the corners of said sheet having apertures therethru in alignment on one side of the handle, clamping bolts extending thru the apertures to clamp the sleeve upon the handle and inwardly extending penetrating elements formed on the sheet adjacent the tool and adjacent one of said clamping disks, said elements being adapted to be forced into positive engagement with the handle by the clamping action of said bolts.

1,752,222. PRESS. RAYMOND T. ANDERSON, Cleveland, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 12, 1926, Serial No. 101,507. Renewed Feb. 11, 1930. 3 Claims. (Cl. 100—48.)



3. In a press, the combination of a shell; a shaft extending through and outwardly from the same; means sustained from the shaft for exerting pressure upon the material within the shell; a casting mounted adjacent the end of the shell, said casting having a central opening formed therein and likewise provided with a plurality of guideways extending radially from said opening in spaced relation; a guide block secured to the inner face of the casting in line with the end of the shell, said block having a central opening and laterally extending guideways aligning with certain of the adjacent guideways formed in the casting; a second guide block mounted in the inner face of the casting, said second block having guideways formed therein which align with the corresponding ways formed in the casting; a slide mounted in each of the guideways of the casting; a jaw secured to the inner end of each slideway, said jaws being so arranged as to pass through the respective ways formed in the guide blocks; a nut secured to the casting at the outer end of each slideway; and a screw threaded into the nut, the inner end of the screw being likewise threaded and passing into a threaded opening formed in the outer end of the adjacent slide, the threads upon that part of the screw which passes into the slide being greater in number per inch than those formed upon that portion of the screw which take into the nut.

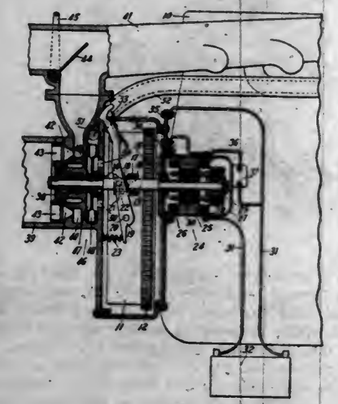
1,752,223. BACK-RUN METHOD OF OPERATING GAS PLANTS. GEORGE E. WHITWELL, Seattle, Wash., assignor to Young-Whitwell Gas Process Company, Tacoma, Wash., a Corporation of Washington. Filed Apr. 26, 1923. Serial No. 634,811. 7 Claims. (Cl. 48—208.)



1. The improvement in the process of making carburetted water gas, which consists in varying the water gas making run by at intervals passing a mixture of combustible

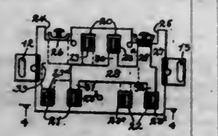
gas and steam successively through a single superheater, a single carburetter and through a solid fuel bed in a single generator whereby water gas is generated.

1,752,224. COMBINED ELECTRIC STARTER, BATTERY RECHARGER, AND ENGINE SUPERCHARGER. VINCENT G. APPLE, Dayton, Ohio. Filed Dec. 7, 1928. Serial No. 324,434. 11 Claims. (Cl. 290—4.)



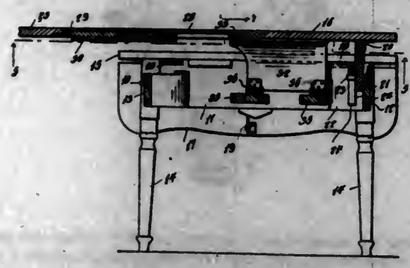
9. The combination of an internal combustion engine and a storage battery with auxiliary mechanism comprising a gas turbine, a blower and a starting generating dynamo joined to rotate in unison, said engine being adapted to exhaust into said turbine, said blower being adapted to discharge into said engine and said starting generating dynamo being adapted to be connected to said battery.

1,752,225. MULTIPLE-PLUG RECEPTACLE. HENRY BIRCHALL, New York, N. Y. Filed Sept. 14, 1927. Serial No. 219,554. 1 Claim. (Cl. 173—330.)



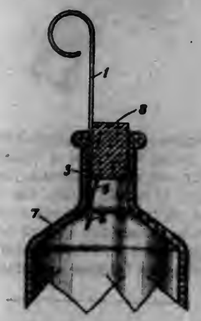
A device of the character described having a face plate provided with three oblong slots, an insulating member arranged adjacent to said face plate, a second insulating member arranged adjacent to said first insulating member and provided with a plurality of perforations therethrough and a plurality of pairs of spring clips arranged each in an independent perforation, a bus bar at the top of said second insulating member and having tongues bent downwardly into said perforations for receiving alternate spring clips and a tongue for receiving a power wire, a second bus bar arranged at the bottom of said second insulating member and provided with tongues for receiving the other alternate spring clips and a tongue for receiving a power wire and a third insulating member arranged under said second insulating member and adapted to shield the current carrying members and a bracket under said third insulating member for supporting the whole in the receptacle box as herein set forth.

1,752,226. COMBINATION IRONING BOARD AND BREAKFAST TABLE. ADELBERT BRAGG, Marion, Ind. Filed May 2, 1929. Serial No. 359,840. 3 Claims. (Cl. 68—10.)



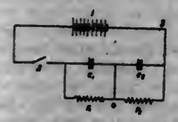
1. A table having a frame, a plurality of leaves thereon, a slide in a vertical guide way on said frame connected to one of the leaves to permit the latter to be elevated, and normally retracted means to support the said one leaf in the elevated position so that it may serve as an ironing board.

1,752,227. CORK PULLER. HENRY ELMER BRIGGS, Columbia Falls, Mont., assignor of four-tenths to Nels John Smith, Columbia Falls, Mont. Filed June 28, 1929. Serial No. 374,570. 1 Claim. (Cl. 65—47.)



A cork extractor formed from a piece of resilient metal whose outer portion is flat and which has its end rounded to afford a finger hold, the sides of the flat portion being gradually inclined inwardly and merging into a cross sectional elliptical portion whose end is arched and pointed, and said elliptical portion being slitted transversely from one of its sides and further slitted longitudinally toward its arched and pointed end to provide a spring finger which is arched outwardly from the member but which when depressed is fully received in the body of the said member.

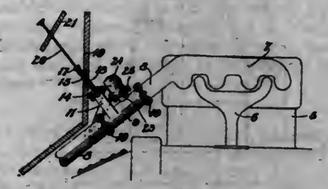
1,752,228. DEVICE FOR PRODUCING AN ELECTRIC DISCHARGE. LÉON NICOLAS BRILLOUIN, Paris, France. Filed Jan. 25, 1928, Serial No. 249,468, and in France Mar. 8, 1927. 5 Claims. (Cl. 250—27.)



3. A device for producing a current of constant intensity and predetermined small duration having a range

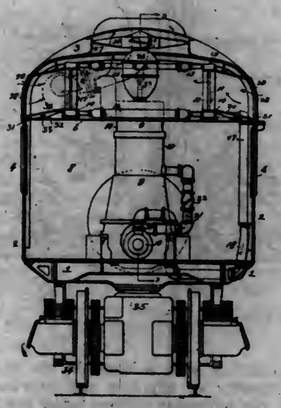
from less than [illegible] second to several seconds duration comprising a circuit consisting of two condensers, a battery in series therewith, a resistance shunting each condenser and a switch in series with the condensers, means for producing suddenly in a point of said circuit between the condensers a potential having a predetermined value and decreasing afterwards according to an exponential law to a second predetermined value, a vacuum tube comprising a filament, plate and grid, means for impressing the above mentioned potential on the vacuum tube, means adapted to cause the plate current intensity to fall to zero during the exponential decrease of the above-mentioned potential, a second vacuum tube, means for impressing the plate potential of the first vacuum tube on said second vacuum tube and a utilization circuit adapted to be fed by the current passing out of the second vacuum tube.

1,752,229. COMPRESSION BRAKE. LEE D. BRUECKEL, Steubenville, Ohio. Filed Nov. 7, 1925. Serial No. 67,692. 1 Claim. (Cl. 123—97.)



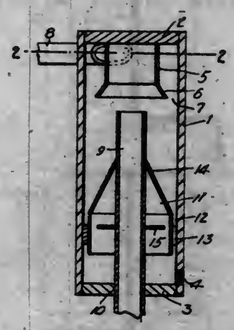
The combination with the exhaust pipe of an automobile engine, of a pipe section interposed therein, said section including a valve box extending perpendicularly from the section, a cut-off gate valve slidably mounted in said box and projectable completely across the exhaust pipe, and yieldable means normally holding the valve retracted, leaving the passage through the exhaust pipe entirely unobstructed, said valve having an escape opening for the exhaust gases when the valve is fully projected.

1,752,230. COOLING SYSTEM FOR INTERNAL-COMBUSTION LOCOMOTIVES. CONRAD C. C. BURKHARDT, Philadelphia, Pa. Filed Feb. 11, 1928. Serial No. 253,737. 2 Claims. (Cl. 123—174.)



1. The combination in an internal combustion locomotive, of a base frame; a body mounted on the base frame and having windows in each side and end; a ceiling extending over the operator's compartment; radiators located in the space above the ceiling; air inlets at the sides of said space; a fan for drawing the air through the space occupied by the radiators and discharging it at the roof of the car; an electric motor in said space for driving the fan; an internal combustion engine extending above the bottom of the radiators and having a water jacket; a pump driven by the engine; pipes leading from the pump to the water jacket of the engine; a check valve in said pipe; a tank at one side of the engine; pipes leading from the water jacket of the engine to the upper portion of the radiators; pipes leading from the lower portion of the radiators to the tank; and a pipe leading from the tank to the pump, the parts being so arranged that when the locomotive is stopped the water will flow from the radiators into the tank and the check valve will close, preventing the flow of water from the water jacket of the engine.

1,752,231. STEAM CLEANER. ALICK CLARKSON, Stratford, Ontario, Canada, assignor to Brooks Steam Motors, Limited, Stratford, Ontario, Canada, a Corporation of Canada. Filed Oct. 3, 1928. Serial No. 310,026. 5 Claims. (Cl. 183—82.)



1. A steam cleaner comprising a cylindrical casing having upper and lower heads, a steam inlet pipe leading tangentially into the upper end of the casing, a cylindrical member depending centrally from the upper casing head to form an annular interspace between itself and the wall of the casing and having an outturned lower edge portion forming a constricted annular steam outlet within the casing, a steam discharge outlet leading through the lower end of the casing, and means for baffling that portion of the steam with the descending particles of foreign matter to prevent the upward passage of such matter to the steam outlet.

1,752,232. CEDAR PLASTER. EDWIN D. CODDINGTON, Milwaukee, and ERNEST A. KEALER, West Allis, Wis.; ROE R. BLACK, Pittsfield, Mass.; and HARVEY S. OWEN, Milwaukee, Wis., assignors to E. D. Coddington Manufacturing Company, North Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 23, 1929. Serial No. 342,295. 7 Claims. (Cl. 106—24.)

1. A wall plaster composition comprising plaster forming material and odor emitting material of such a character and in such amount as to emit the characterising and predominating aroma of cedar wood from the solidified plaster after application and solidification upon the wall.

1,752,233. EYE SHIELD OR GUARD FOR USE IN CONNECTION WITH SPECTACLES, EYEGLASSES, GOGGLES, OR THE LIKE. HENRY CLORAN, Ambleside, England. Filed Nov. 13, 1928, Serial No. 319,125, and in Great Britain Nov. 17, 1927. 1 Claim. (Cl. 2—13.)

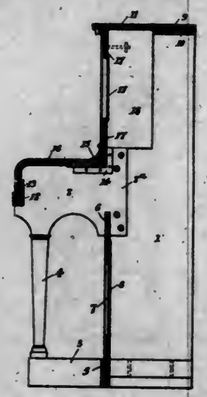
An attachment for eye glasses comprising a shield having shoulders formed in its side edges, a pair of resilient

strips extending transversely of the shield and upon opposite faces thereof, clamps fixed to the ends of the strips and adapted to abut said shoulders to limit the sliding



movement of the shield in one direction between the strips, said clamps being adapted to detachably engage the rim of the eye glass.

1,752,234. PIANOFORTE. ROBERT HENRY COLLEN, East Ham, England, assignor of one-half to John Broadwood & Sons Limited, London, England. Filed Nov. 9, 1926, Serial No. 147,270, and in Great Britain Nov. 26, 1925. 2 Claims. (Cl. 84—177.)



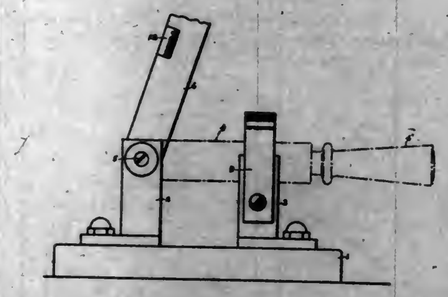
1. A pianoforte comprising a pianoforte case constructed as a unit apart from the playing mechanism and without a bottom board, in combination with a playing mechanism constructed separately upon a bottom board and adapted to be fixed in place by sliding the bottom board into place and fastening it there.

1,752,235. RADIATOR. WILLIAM GREEN COLLINS, Wichita Falls, Tex. Filed Aug. 17, 1928. Serial No. 300,290. 2 Claims. (Cl. 257—125.)



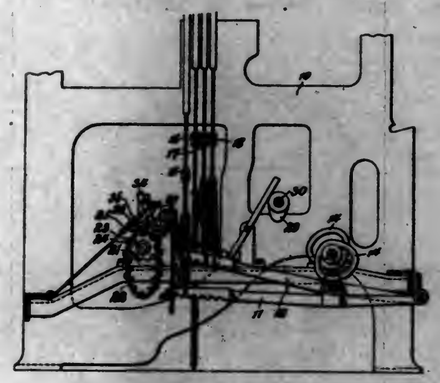
2. A radiator comprising a shell formed with an upper compartment and a lower compartment, a partition within the upper compartment to divide the same into a pair of sub-compartments, a partition within the lower compartment to divide the same into a pair of sub-compartments, one of said upper sub-compartments having an overflow pipe and further having a plurality of tubes connecting it with one of said lower sub-compartments, the other of said upper sub-compartments having a steam escape pipe and further having a plurality of tubes connecting it with each of said lower sub-compartments, said upper compartment being provided with an inlet and said lower compartments being provided with an outlet.

1,752,236. ELECTRIC SWITCH. VERNON A. CONKLIN, Maplewood, N. J. Filed Apr. 6, 1928. Serial No. 268,025. 1 Claim. (Cl. 200—162.)



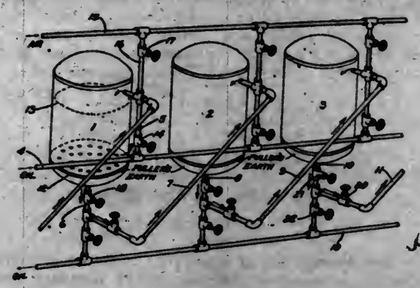
The combination with a switch, including a pair of contacts spaced apart, a pivoted blade movable between the contacts to close the circuit, enlargements on opposite sides of the blade, and spring tongues exerting cam action on the enlargements to complete the closing movement of the blade when said movement is manually initiated.

1,752,237. HARNESS-CONTROL MECHANISM FOR PATTERN WEAVING. JAMES O. COBB, Columbia, S. C. Filed Mar. 28, 1928. Serial No. 264,204. 7 Claims. (Cl. 139—76.)



1. In combination with a loom of the character described, a plurality of adjacent cam operated treadles connected to the harnesses thereof below the lower ends of the harnesses; mechanism for controlling the operation of the treadles to produce pattern weaves including pattern controlled latch means periodically engaging the end of one of the treadles to hold it out of engagement with its cam while the other treadles are being operated.

1,752,238. PROCESS OF RECLAIMING OIL. DAVID C. COX, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 18, 1925. Serial No. 16,554. 5 Claims. (Cl. 196—16.)



1. The process of reconditioning a mineral insulating oil after use at a temperature sufficiently high to produce sludge therein which consists in conducting said oil through a bed of absorptive material and adding thereto a sufficient quantity of new mineral insulating oil to form an insulating oil mixture which is capable of being used under substantially the same conditions as the original oil before being sludged.

1,752,239. PROTECTION OF METALS. SEBASTIAN ZIANI DE FERRANTI, Hollinwood, England, assignor to Ferranti, Limited, Hollinwood, England. Filed Feb. 10, 1925, Serial No. 8,280, and in Great Britain Mar. 4, 1924. 2 Claims. (Cl. 91—70.1.)

1. A method of protecting the rotor of a mercury bath electricity meter from amalgamation with mercury, which consists in applying a coating of platinum to the rotor, heating it slowly to a temperature of about 700° C. in an atmosphere which is inert with respect to platinum and to the metal constituting the rotor, maintaining the temperature for sufficient length of time to produce the desired depth of alloying and then while still in the said atmosphere allowing the rotor to cool.

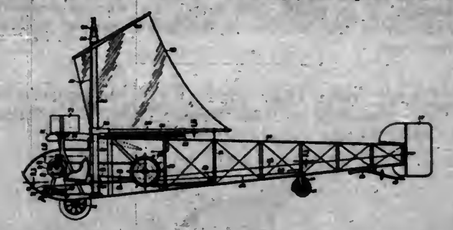
1,752,240. SHOCK ABSORBER. GEORGES HENRI ERNEST DE RAM, Boulogne-sur-Seine, France. Filed Aug. 10, 1926, Serial No. 128,489, and in France Aug. 27, 1925. 4 Claims. (Cl. 267—8.)



4. A shock absorber comprising two pivotally connected members, a hydraulic element and a friction element carried by one of said members, the other member constituting the operating lever and associated with said friction element, resilient tightening means associated with said friction element, a fluid reservoir associated with said member carrying said hydraulic element, an eye joint plug disposed in said fluid reservoir, means for automatically supplying said hydraulic element with fluid upon the rotation of said friction element in one direction from its normal position, and means for automatically returning said fluid to said reservoir on the return of said friction element to its normal position.

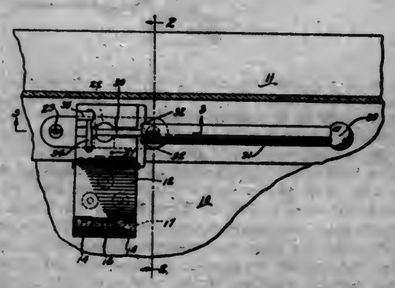
1,752,241. AIRCRAFT. JOHN DOMENJOZ, New York, N. Y., assignor to Domenjoz Sail Plane Co., New York, N. Y., a Corporation of New York. Filed July 6, 1928. Serial No. 290,770. 2 Claims. (Cl. 244—29.)

1. In an aircraft, a fuselage, a rudder pivotally mounted on the tail of the fuselage, laterally extending wings on the fore part of the fuselage, vertical stabilizers respectively arranged on opposite sides of the fuselage, each of said stabilizers being mounted for pivotal movement, a pivotally mounted bar on the fuselage, and operative con-



nections respectively between the bar and stabilizers and the bar and rudder for the purpose of simultaneously moving either one of the stabilizers and the rudder in response to the movement of the bar.

1,752,242. WINDOW LATCH. LADISLAS DUGOVIC, Chicago, Ill. Filed Apr. 21, 1928. Serial No. 271,938. 6 Claims. (Cl. 292—278.)



1. A device of the character stated including a member including a housing, another member adapted to normally be disposed within said housing, an arm pivotally mounted on said last named member, said housing having a slot formed in the walls thereof, said arm including a reduced portion adapted to be disposed in said slot, and means on said housing adapted to support the reduced portion of said arm in a position relative to said slot such that a shoulder defined by said reduced portion will engage the wall portions of said housing adjacent said slot when said members are moved relative to each other.

1,752,243. WAD FOR WHALE GUNS AND THE LIKE. KARL EMIL HJALMAR ENGBERG, Drammen, Norway. Filed Aug. 21, 1928, Serial No. 301,080, and in Sweden July 24, 1928. 4 Claims. (Cl. 102—42.)



1. A wad for guns for shooting out harpoons consisting of two tightening discs and an intermediate resilient filler, a housing surrounding said discs and filler, and means at one end of said housing for containing the powder bag.

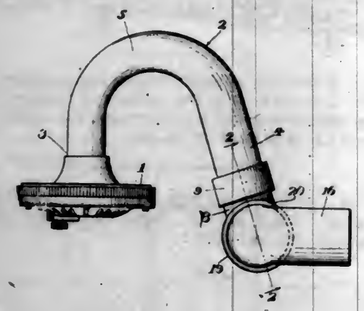
1,752,244. PROCESS FOR REFINING AND PURIFYING BARIUM SULPHATE. HENRY V. FARR, Ferguson, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 4, 1926. Serial No. 92,351. 16 Claims. (Cl. 23—122.)

3. The process of making complex barium salts, comprising the step of treating barium sulphate with a con-

centrated solution of a soluble salt of another metal capable of forming a complex barium salt.

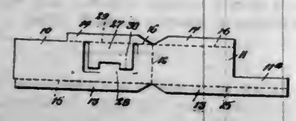
15. The process of refining crude barium sulphate which comprises treating the crude sulphate with a concentrated solution of an alkali earth metal salt, and subsequently hydrolyzing the mixture to precipitate barium sulphate therefrom.

1,752,245. TONE ARM. JULIUS A. FISCHER, Philadelphia, Pa. Filed July 20, 1928. Serial No. 294,270. 3 Claims. (Cl. 274—23.)



1. An attachment for sound boxes comprising, a goose neck adapted to be connected with a sound box, an elbow rotatably connected with the goose neck, means for limiting the rotary movement between the elbow and goose neck, a tone arm coupling adapted to be connected with a tone arm, and means connecting the tone arm coupling with the elbow to permit a limited rotary movement therebetween, said last named means coacting with the connection between the elbow and goose neck to provide for horizontal and vertical movements of the sound box regardless of the angular relation of the tone arm with respect to the goose neck.

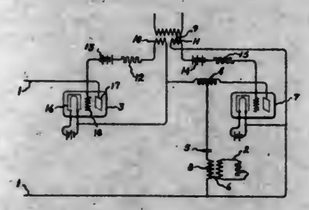
1,752,246. DISPLAY HOLDER. LEO FLIER, New York, N. Y., assignor to Universal Jewelry Case Co., a Copartnership composed of Leo Flier and Joshua Zelman, Brooklyn, N. Y. Filed Apr. 11, 1928. Serial No. 269,163. 4 Claims. (Cl. 206—75.)



3. A display holder for strap-watches or the like including a pair of relatively stiff spaced plates cooperatively forming a body and defining a pocket between them, a portion of the upper plate terminating short of the corresponding portion of the lower plate to provide a mouth through which one strap of a watch laid on the extended end of the lower plate may be inserted, and a bendable easel integrally connected to the lower plate and accommodated in an opening therein when not in use, one end of the upper plate forming a rib to limit downward sliding movement of the watch when the easel is set up.

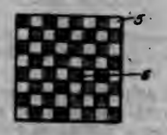
4. A display holder for strap watches or the like, including an upper plate and a lower plate, the upper plate having one corner thereof cut away, relatively narrow spacing members interposing the plates respectively along the adjacent side edges thereof, to form a longitudinal pocket between the plates having a mouth through which one strap of a watch laid on the lower plate in the space afforded by the cut-away may be inserted.

1,752,247. CONVERTING APPARATUS. ALAN S. FITZ GERALD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 18, 1929. Serial No. 356,223. 7 Claims. (Cl. 175—363.)



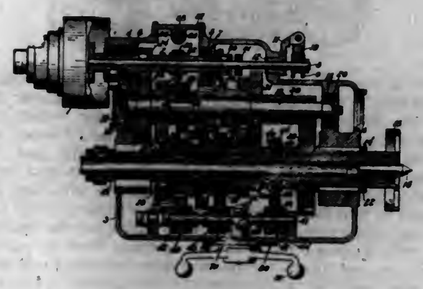
2. The combination of a plurality of electrical valves, a capacitor, a capacitor charging circuit including one of said valves, a capacitor discharging circuit including another of said valves, an alternating current circuit common to said charging and discharging circuits, and means for successively changing the conductivities of said valves.

1,752,248. EDUCATIONAL PUZZLE. JOHN EDWARD FRANSEN, Brooklyn, N. Y. Filed Apr. 19, 1929. Serial No. 356,433. 1 Claim. (Cl. 273—157.)



An educational puzzle of the character described comprising a plurality of separate interfitting units each in the form of a complete letter of the alphabet, said units adapted to form a rectangular board having an unbroken surface when properly assembled with respect to each other, each unit further having its face marked off in squares defining a checker board when the units are in assembled position.

1,752,249. CHANGE-SPEED GEARING FOR LATHE HEADS. ALFRED C. GETZ, Sidney, Ohio. Filed Oct. 28, 1926, Serial No. 144,779. Renewed Mar. 15, 1929. 13 Claims. (Cl. 74—59.)



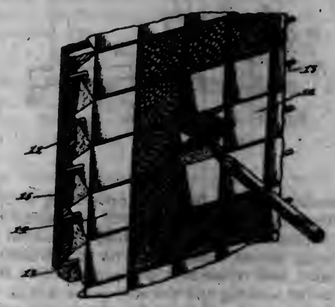
3. In a gear mechanism, the combination of a shaft, a double-faced clutch keyed to said shaft, a gear journaled on said shaft at one side of the clutch, a sleeve journaled on said shaft at the other side of the clutch, said clutch being shiftable into engagement with either the gear or the sleeve, a driven member parallel to said shaft, a second double-faced clutch slidably keyed to said driven member, a hub journaled on said driven member at one side of the second clutch and permanently geared to both the gear and the sleeve on said shaft, a gear journaled on the driven member at the other side of said clutch and independently geared to the sleeve on the shaft, said second clutch being shiftable into engagement with the hub or gear adjacent thereto, and means for selectively shifting the first clutch in either direction and at the same time selectively shifting the second clutch in the same or in the opposite direction.

1,752,250. MOP HOLDER. JOHN HAMILTON GILLIS, Gainesville, Tex. Filed Nov. 30, 1928. Serial No. 322,779. 1 Claim. (Cl. 15—151.)



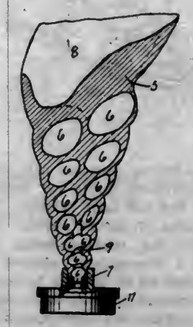
The combination with a mop stick; of a holder for connecting a mop head to the stick comprising a loop to carry the head and having parallel legs to straddle the stick, guiding and retaining eyes carried by the stick in which the legs of said holder are adapted to slide, one of said legs having ratchet teeth on its inner face, a plate spring secured at one end to the stick and having its other end curved outwardly to form a locking dog to engage the teeth of said leg, whereby the holder is locked to the stick, and a combined spring releasing and tensioning device slidable on the stick over said plate spring to release the dog from the ratchet teeth and to vary the tension of the spring.

1,752,251. CHANGEABLE SIGN. CHARLES A. GIROUX, Montreal, Quebec, Canada. Original application filed Feb. 4, 1928, Serial No. 251,972. Divided and this application filed July 13, 1929. Serial No. 378,095. 2 Claims. (Cl. 40—28.)



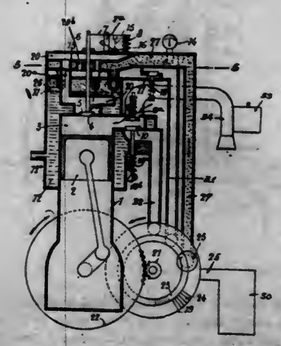
1. A changeable exhibitor comprising a frame, a plurality of three sided blocks rotatably mounted in the frame and arranged to selectively exhibit any one of the sides, and means for automatically securing the blocks in stationary position, said means including a cushion of yieldable material secured in the frame in the rear of the blocks adapted to engage the blocks and hold the same in position.

1,752,252. AMPLIFIER. JOSEPH V. GODBEY, San Francisco, Calif. Filed Jan. 16, 1925. Serial No. 2,890. 1 Claim. (Cl. 181—27.)



An ornamental radio amplifier comprising a shell body having a tortuous passage formed therein of increasing diameter from end to end and defining a plurality of connected convolutions, and a channel formed in the lower portion of said shell and in communication with the lowermost convolution of the passage.

1,752,253. POWER PLANT. JOSEPH MARIE ARSÈNE GOINARD, St.-Nazaire, France. Filed Feb. 7, 1925, Serial No. 7,625, and in France Feb. 8, 1924. 5 Claims. (Cl. 60—13.)



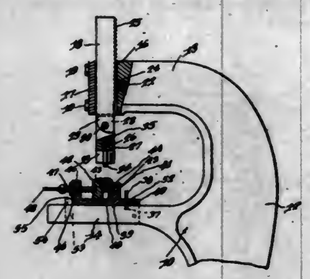
5. In a combined water cooled internal combustion engine and turbine: a vaporization chamber in communication with the cooling water jacket of said engine, a gas chamber bounded by the engine cylinder head, the water-jacket and said vaporization chamber, ducts extending through said vaporization chamber and opening into said gas chamber, a gas pipe for connecting said ducts with the admission of said turbine, a valve adapted to afford communication between said gas chamber and the interior of the cylinder at the beginning of the expansion stroke, a steam conduit opening into said vaporization chamber and leading to the admission of said turbine, said steam pipe and gas pipe having a common wall adapted to afford exchange of heat between the gas and the steam, and connecting means for connecting the exhaust conduit of the engine with the admission of said turbine.

1,752,254. MEANS FOR FACILITATING THE FITTING OF SHOES. VAN GORDON GOSNELL, Hamilton, Ontario, Canada. Filed Nov. 27, 1928. Serial No. 322,240. 1 Claim. (Cl. 36—1.)



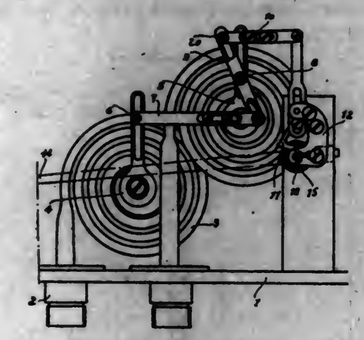
A key shoe for fitting purposes comprising an ordinary shoe upper formed with a cut out portion substantially corresponding to the toe area thereof, the major portion of said upper being of actual fitting size corresponding to the last, said toe portion being larger than the fitting size, and a transparent, shaped member for the toe portion adapted to fit therein to form a transparent backing for the cut out portion, said transparent member being of actual fitting size corresponding with the last to provide a fitting shoe having interior dimensions corresponding throughout with the actual saleable shoes.

1,752,255. VISE ATTACHMENT FOR PRINTING AND STENCILING DEVICES. OLAF HALVORSEN and SAMUEL F. KIESLING, Chicago, Ill. Filed Sept. 2, 1927. Serial No. 217,202. 1 Claim. (Cl. 81—41.)



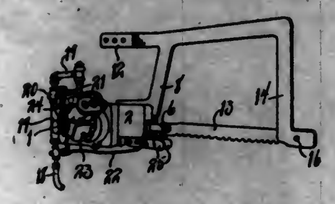
In a vise structure for a stenciling machine including a shelf, a base plate having the rear edge portion provided with spaced parallel notches and having a bearing head at the forward end thereof, a stationary jaw on said base plate, a movable jaw co-operating with said stationary jaw, said jaws having co-operating substantially semicircular grooves formed therein, said stationary jaw having a substantially hexagonal notch provided in the upper surface thereof, a threaded member in said bearing head having connection with the movable jaw whereby said movable jaw will be movable relative to said stationary jaw upon rotation of said threaded member, securing elements threaded in said shelf and having shank portions projectable into said notches in said base plate and including head portions adapted to bear on said base plate for securing said base plate in position on said shelf, and a plate on one side of said shelf extended above the upper edge thereof against which said base plate may be disposed to orient said base plate and said clamping jaws relative to the operating parts of said stenciling machine.

1,752,256. GAUGE FOR MEASURING THE DIFFERENCE BETWEEN TWO PRESSURES. FRIEDRICH OTTO HANNI, Jegenstorf, Switzerland. Filed Feb. 10, 1928, Serial No. 253,488, and in Germany Feb. 12, 1927. 2 Claims. (Cl. 73—109.)



1. In a gauge for measuring the difference between the two pressures and in combination, a casing having a bottom plate, two tubes spirally bent after the Bourdon fashion, socket joints adapted to join said tubes to the bottom of the plate and to pressure conduits, two slotted parallel crank arms fixed to the centers of said tubes and located in the same plane and turned into the same direction, an equal-armed lever having slotted ends and being pivotally attached intermediate its slotted ends to the end of one of said cranks and a rod pivoted to one end of said lever and to the end of the other crank all arranged so that an equal stroke of said cranks will leave the free end of said lever stationary, a bracket, a toothed segment having an arm pivoted on said bracket, a link pivoted to this arm and to the free end of said lever, an axle mounted on said bracket and a pinion fixed to the axle and meshing with said segment, a hand held by said axle and a rotatably arranged registering drum disposed so as to be capable of registering the path of said hand.

1,752,257. CARCASS SPLITTER. BERTIE S. HARRINGTON, Fort Worth, Tex., assignor to Wolf Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 11, 1928. Serial No. 245,975. 5 Claims. (Cl. 142—68.)



1. A carcass splitting machine, comprising a motor, a reciprocating cutter blade operatively connected to said motor, a supporting frame operatively connected to the motor housing, means engageable with said frame to suspend the same, said frame having a portion offset laterally from the motor housing and the suspension means, whereby to position the blade in sight of the operator, and means carried by said off-set portion for guiding said blade.

1,752,258. FILM CUT-OUT. HENRY E. BUTLER, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1928. Serial No. 317,023. 8 Claims. (Cl. 200—118.)



1. A film cutout comprising metal pieces separated by an insulating film, said metal pieces being held together magnetically.

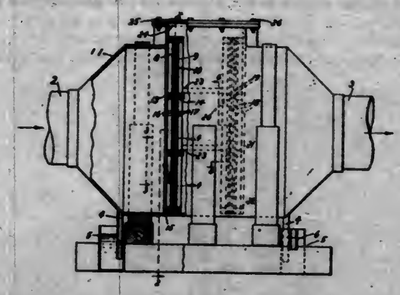
1,752,259. FILM CUT-OUT. HENRY E. BUTLER, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1928. Serial No. 317,024. 2 Claims. (Cl. 200—118.)



1. A film cutout comprising metal pieces with an insulating film between them, one of said pieces being provided with flange means which engages the other piece for holding the pieces in the assembled relation relatively to each other.

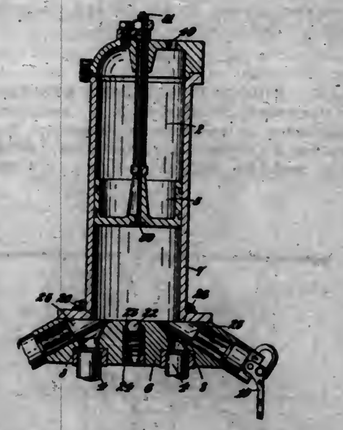
1,752,260. GAS SCRUBBER. WILLIAM ALEXANDER SKEEN CALDER, Ravensthorpe, Harborne, and WILLIAM HAROLD PALMER, Smethwick, Birmingham, England. Filed July 14, 1924. Serial No. 726,033. 1 Claim. (Cl. 183—70.)

A gas scrubber comprising a casing provided with inlet and outlet means at opposite ends thereof and having shoulders adjacent the respective inlet and outlet means and an opening at its top, grid frames insertable through said opening and engaging the shoulders, perforated scrubber plates insertable through said opening, grid spacers insertable through said opening, said perforated scrubber plates and grid spacers being alternately arranged to form two sets of spaced scrubber plates engaging the respective grid frames, another pair of grid frames insertable through said opening and engaging the other sides of said sets of scrubber plates, and removable



wedge means engaging said last named grid means to retain said frames and the sets of scrubber plates in position within said casing.

1,752,261. LIQUID-SUPPLY SYSTEM. GEORGE DEAN, Armthorpe, near Doncaster, and HENRY AINSLEY, Seascale, England; said Ainsley assignor to said Dean. Filed July 23, 1927, Serial No. 208,004, and in Great Britain July 30, 1926. 2 Claims. (Cl. 103—2.)

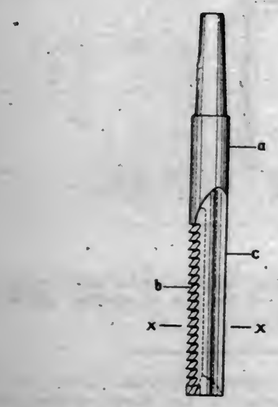


1. In a liquid supply system, the combination of a pump provided with a piston which completely fills the clearance space within its cylinder, a head for the pump provided with a plurality of separate conduits adapted to be connected to containers for various liquids, said head containing a plurality of cut off valves adapted to control the conduits in which each cut-off valve is in the form of a plug, movable in a direction axially with respect to its seating, which seating is around the conduit at the latter's junction with the pump wall, and the part of the valve exposed to the interior of the pump is shaped to conform to the surface of the pump wall.

1,752,262. BIT FOR BORING LONG HOLES. EDUARD MÜHLHOFF, Remscheid, Germany, assignor to Firm of Peter Friedr. Mühloff, Werkzeugfabrik, Remscheid, Germany. Filed Apr. 22, 1929, Serial No. 357,276, and in Germany Sept. 20, 1928. 1 Claim. (Cl. 145—116.)

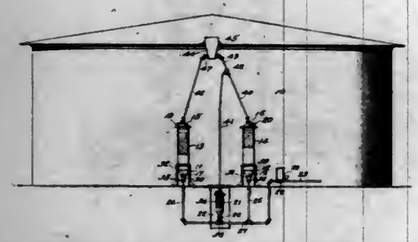
A bit for boring long holes comprising a shank and a relatively long working portion provided with two distinctly different types of cutting edges arranged longi-

tudinally thereof, spaced circumferentially at least 90°, and comprising, respectively, a preliminary notching or chip dividing means and a finish cutter, said notching or chip dividing means being made up of a plurality of re-



lieved serrated teeth having perceptible rake and said finish cutter being made up of a continuous relieved, smooth cutting edge, so that strain on the cutting edges and working portion of said bit and consequent danger of breakage thereof will be reduced.

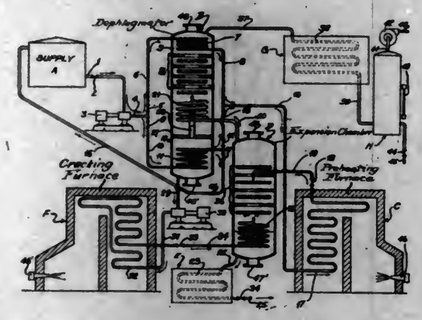
1,752,263. FIRE-EXTINGUISHING SYSTEM. DUNCAN W. PATTERSON, Douglaston, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation, a Corporation of New York. Filed Sept. 20, 1921. Serial No. 501,946. 3 Claims. (Cl. 169—15.)



1. A fire extinguishing system comprising containers for separately holding acid and basic salts, a receptacle for holding a foam producing substance, means operable in time of fire for introducing a solvent into the containers for dissolving the salts, means for conducting the resulting basic solution and the foam producing substance into intermixing relation to produce the basic chemical component solution and means for thereafter conducting the said basic chemical component solution into intermixing relationship with the solution of the acid salt to produce a fire extinguishing foam compound.

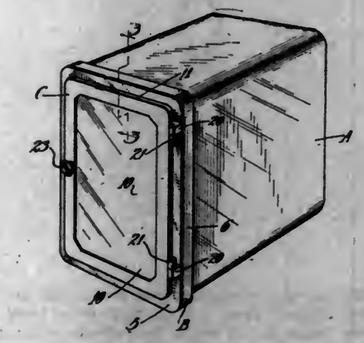
1,752,264. MANUFACTURE OF HIGH-COMPRESSION AUTOMOTIVE DISTILLATE. CLIFTON JOHN PRATT, St. Louis, Mo. Filed July 13, 1927. Serial No. 205,283. 3 Claims. (Cl. 196—60.)

2. The process of treating hydrocarbon oils which comprises preheating said hydrocarbon oil, subjecting said pre-heated oil to a preliminary cracking operation where-by coke-forming constituents are removed therefrom in a liquid form, said cracking operation being conducted at substantially atmospheric pressure, said cracking operation being effected by filming said preheated oil and intimately contacting the same with cracked oil vapors to form precracked vapors, partially condensing said pre-



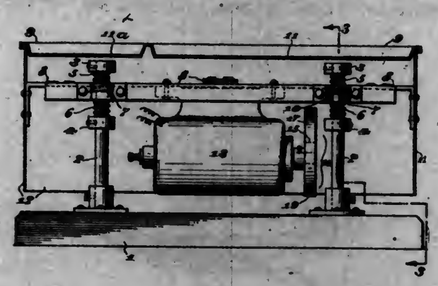
cracked vapors to a precracked oil, subjecting said precracked oil to a vapor phase cracking operation without substantial coke formation, and bringing the cracked vapors into contact with said preheated oil to crack said preheated oil, and removing light cracked hydrocarbon vapors and condensing the same.

1,752,265. STERILIZING CABINET. ARTHUR R. SCHWARZKOPF, Chicago, Ill., assignor to Theo. A. Kochs Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 12, 1929. Serial No. 354,507. 5 Claims. (Cl. 215—1.)



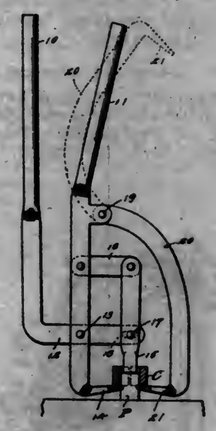
1. A sterilizing cabinet having an open side to which is applied a frame having a seat extending continuously adjacent its inside edges, a door consisting of a frame hinged to the cabinet frame, a panel in the door frame resting against the inner face thereof, a plate bearing against the panel edges upon the inner face thereof, screws having their heads bearing against the plate and entered within threaded sockets proceeding within the door frame from the inner face thereof, flanges extended oppositely from the outer edges of the door frame and the plate defining therebetween a slot extending continuously around the inner face of the door frame adjacent its outer edges and opposite the seat in the cabinet frame, and resilient sealing means secured within said slot and protruding slightly therefrom adapted to enter the seat when the door is closed whereby to provide a tight closure for the cabinet.

1,752,266. VIBRATORY DEVICE FOR DENTAL MOLDING MACHINES. ALFRED C. SLOAN, Philadelphia, Pa. Filed May 29, 1923, Serial No. 642,852. Renewed Aug. 2, 1929. 10 Claims. (Cl. 22—45.)



1. A vibratory device of the character described, which comprises a stationary base member, a motor having a rotor shaft yieldingly supported on said base member, means carried on the rotor shaft of said motor to effect the unbalance of said shaft in the operation of the motor.

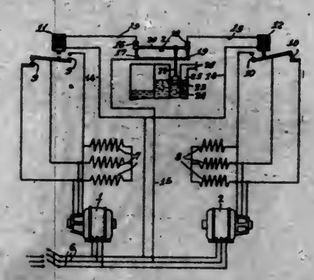
1,752,267. TERMINAL PULLER. ERASTUS C. STEPHENS, Canton, Ga., assignor of one-half to Steve E. Smith and one-half to David Lemon Turner, Pickens County, Ga. Filed Dec. 1, 1928. Serial No. 323,167. 4 Claims. (Cl. 29—84.)



1. In a terminal puller, a handle member having at its lower end an angular foot, a second handle member having an angular extension, said angular extension being pivoted to the first named handle member above the foot and in spaced relation thereto and having an end extending outwardly over and beyond the foot, a link pivoted to the first named handle member above said extension and paralleling said extended end thereof, and a pressure bar pivoted at its upper end to said link and at its lower end to the said end of the extension.

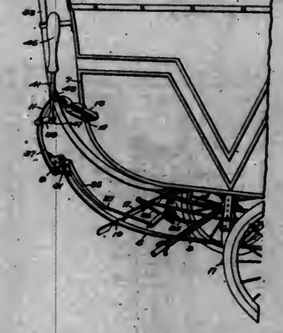
1,752,268. APPARATUS FOR FLUID-PRESSURE REGULATION. FLOYD H. VIETS, Alhambra, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 15, 1925. Serial No. 23,330. 5 Claims. (Cl. 50—10.)

3. A pressure operated float control device comprising a chamber in communication with a source of variable pressure, a second chamber in communication with a source of fixed pressure, said two chambers being also in communication with one another at their lower portions to permit passage of liquid from one to the other, a body of liquid in said chambers and subjected to the pressures therein, means preventing communication between said chambers above the surface of said body of liquid, a float



in one of said chambers and operable by the liquid therein and adapted to be connected to control means, liquid storage means, and means independent of said fixed and variable pressures for effecting transfer of liquid in either direction between said liquid storage means and said two chambers so as to vary the total amount of liquid in said chambers.

1,752,269. BRAKE FOR BABY CARRIAGES. HAROLD F. SHAW, Leominster, Mass., assignor to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1929. Serial No. 355,860. 6 Claims. (Cl. 188—20.)

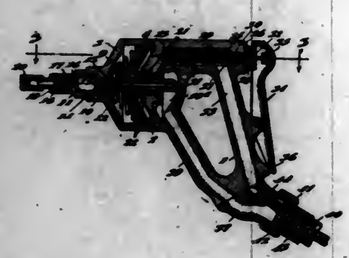


1. In a baby carriage an underframe comprising longitudinal perches to underlie the body, laterally extending supports at the ends thereof, bowed springs carried by said supports and suspending the body between them, a resiliently pressed brake on the underframe, a mechanism for springing the same, a rocker pivoted to one of said supports connected to said mechanism, and a hand lever pivoted adjacent the end of the spring rising from the support and linked to the rocker.

1,752,270. LUBRICATING APPARATUS. CLYDE G. BUTLER, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 18, 1928. Serial No. 293,681. 3 Claims. (Cl. 221—47.3.)

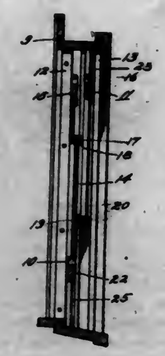
1. A grease gun, comprising, an air cylinder, a high pressure grease discharge cylinder secured on the forward

end of the air cylinder, a handle carrying said cylinders and attached to the rear of the air cylinder, said handle having a supply chamber therein, a hollow plunger reciprocably mounted between said high pressure cylinder and said supply chamber, a valve in said plunger, said valve opening during rearward movement, an air actuated



piston in said air cylinder connected to said plunger, means in the handle for controlling the air supply to the cylinder, said supply chamber of shallow depth and having the intake conduit thereof disposed at right angles to the plunger axis whereby the plunger moves toward the rear wall of the chamber for a positive displacement of grease through the plunger.

1,752,271. WINDOW. HARRY B. FORESMAN, Enid, Okla., assignor, by direct and mesne assignments, to Lock Joint Window Company, Kansas City, Mo., a Corporation of Delaware. Filed Dec. 27, 1927. Serial No. 242,719. 3 Claims. (Cl. 20—52.4.)



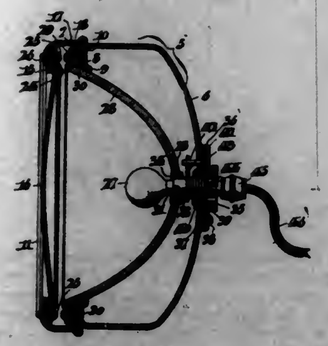
1. A window, comprising a frame having an upper and a lower sash slidable therein, a continuous groove in the outer edges of each of said sashes extending across three sides thereof, respectively, tongues carried in said frame to engage said grooves, said tongues being coextensive with said grooves when said sashes are in the closed position, and means integral with said sashes to interlock and draw said sashes together and against said tongues as they are moved to the closed position.

1,752,272. TRAY ATTACHMENT FOR SMOKERS' AND LIKE STANDS. JOHN S. KANDEL, Chicago, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed June 11, 1928. Serial No. 284,488. 1 Claim. (Cl. 248—20.)



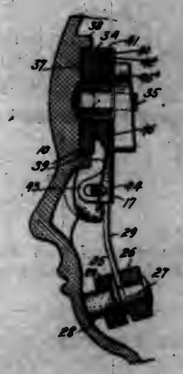
In a stand of the type described, the combination of an upright member having at its upper end an overhanging bracket of a curved shape and with a lower bracket in vertically spaced relation beneath said upper bracket, the lower bracket extending in an approximately horizontal plane and having a wedge form in cross section, the upper bracket member having a curved form providing an open bottom receiving recess, and a detachable tray member, having a marginal formation corresponding with the engaging portions of the aforesaid brackets adapting the tray for detachable engagement between the aforesaid upper and lower bracket arms.

1,752,273. HEADLIGHT. HARRY G. LEWIS, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 19, 1926. Serial No. 149,367. 2 Claims. (Cl. 240—44.)



1. A headlight of the character described comprising a casing enclosing a parabolic reflector, a lamp socket extending into the casing having its central portion screw-threaded with its inner end guided for longitudinal shifting in an axial bushed opening of the reflector, a regulating nut constrained with respect to axial displacement but rotatably held by the casing and in operative engagement on the screw-threaded portion of the socket for the purpose of enabling focal adjustment of the lamp, an arm fast on the socket, and a stationary guide cooperating with said arm to prevent rotation of the socket incidental to its adjustment.

1,752,274. MOUNTING FOR DOLL-EYE SETS. SAMUEL MARCUS, Brooklyn, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 6, 1926. Serial No. 92,728. 11 Claims. (Cl. 46—40.)



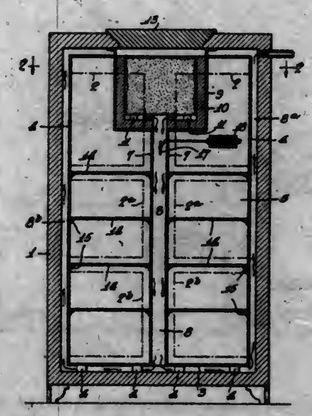
1. In a doll eye set, the combination of anchoring means composed of yielding material and for attachment to a head, a hanger-bracket having serrated edges, and for supporting a pair of eyes, and securing means for pressing the serrated edges into said anchoring means.

1,752,275. DOLL'S-EYE CONSTRUCTION. SAMUEL MARCUS, Brooklyn, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Mar. 6, 1926. Serial No. 92,729. 12 Claims. (Cl. 46—40.)



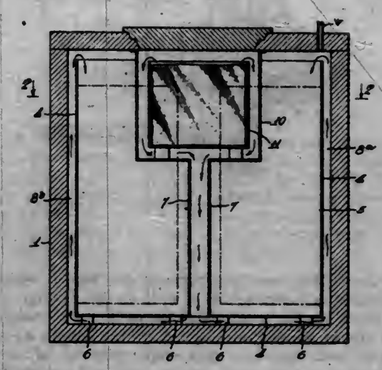
1. In a doll's eye construction, the combination of an eye provided with a slotted back member, a supporting rod adjacent the back member at a point opposite the slot, and securing means in frictional engagement with the back member looped into the slot and engaged about said rod to clamp the rod frictionally to said back member.

1,752,276. REFRIGERATING APPARATUS AND METHOD. JAMES W. MARTIN, Jr., Yonkers, N. Y., assignor to Dryice Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 8, 1928. Serial No. 324,639. 20 Claims. (Cl. 62—92.)



1. A refrigerating apparatus comprising a receptacle, a container for solidified carbon dioxide in the upper portion thereof, a downflow conduit therefrom and an upflow outlet conduit from the latter; the container being closed against inlet of air and the upflow outlet discharging outside the apparatus.

1,752,277. REFRIGERATIVE HEAT-INSULATING APPARATUS AND METHOD. JAMES W. MARTIN, Jr., Yonkers, N. Y., assignor to Dryice Equipment Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 2, 1929. Serial No. 343,988. 9 Claims. (Cl. 62—92.)

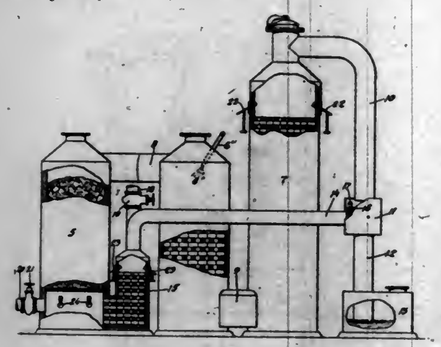


1. The method of preserving or improving the insulating quality of the walls of a container, which includes by absorbing heat and sublimating solid carbon dioxide within said container, and confining and guiding circulation of the cold freshly evolved carbon dioxide gas in intimate contact with an inner surface of said walls.

1,752,278. GAS MANUFACTURE. FRANK W. STEERE, Highland Park, Mich., assignor, by mesne assignments, to Semet-Solvay Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 25, 1925. Serial No. 25,951. 2 Claims. (Cl. 48—80.)

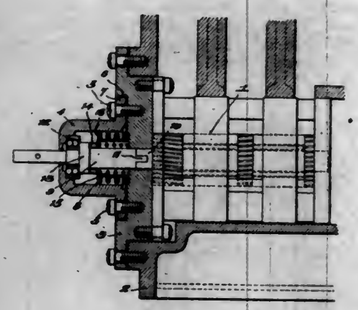
1. In a water gas set, a single generator, a single carburetor, a single superheater and a seal connected in se-

ries, a checkerbrick chamber contiguous to and connected with the base of said generator, a conduit leading from the top of said chamber to the connection between the



superheater and seal, a pipe connected to the top of said chamber to supply air thereto, and means to supply water to said chamber.

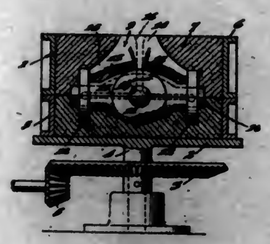
1,752,279. STUFFING BOX. ALBERT E. THORNLEY, Pawtucket, R. I., assignor to Narragansett Machine Company, Pawtucket, R. I. Filed May 12, 1927. Serial No. 190,776. 2 Claims. (Cl. 286—11.)



2. In a stuffing box for pumps or the like, a casing, a demountable cap carried by a wall of the casing, a sectional shaft having a slip-joint between its sections and having one of its sections carried by the cap so as to be removable from the other section upon removal of the cap, thrust means on said shaft section, and packing means between the thrust means and said wall of the casing and being mounted on said first named shaft section and having abutting engagement with said wall of the casing so as to be removable and replaceable as a unit with said first named shaft section and the cap upon removal or replacement of the cap.

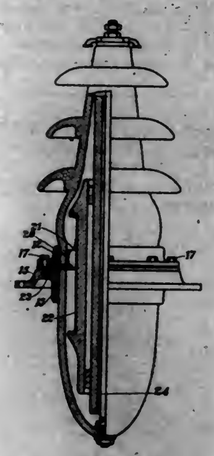
1,752,280. METHOD AND APPARATUS FOR CASTING METAL. ELMER S. SAWTELLE, Cincinnati, Ohio, assignor to The Sawbrook Steel Castings Company, Lockland, Ohio, a Corporation of Ohio. Filed July 13, 1928. Serial No. 292,427. 10 Claims. (Cl. 22—65.)

1. A casting apparatus, comprising, a rotatable mold having a mold cavity formed therein, said cavity having regions of relatively greater cubical dimension, said mold having a head pressure chamber formed on its axis of rotation above said mold cavities, and a plurality of ancillary



supply passageways extending from the head pressure chamber to the mold regions of relatively greater cubical dimension.

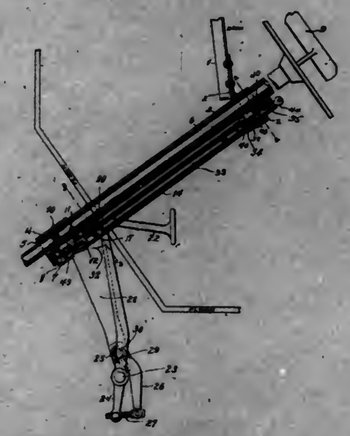
1,752,281. INSULATOR-BUSHING JOINT. ARTHUR O. AUSTIN, near Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,501. 8 Claims. (Cl. 173—318.)



1. An insulator bushing comprising a pair of shell members having edges arranged to register with each other, means for clamping said shell members together to form a closed chamber, said means comprising a separately formed flange secured to one of said shell members adjacent the edge thereof but displaced outwardly from said edge in a position to leave said edge exposed, an imperforate dam held between the edges of said shell members and completely spanning the joint between said flange and its shell member to prevent leakage through said joint and a gasket between said edges.

8. A bushing insulator comprising a pair of dielectric shell members having open sides facing each other and having their edges, surrounding said sides, in confronting relation, to form a housing, a separately formed clamping ring surrounding the rim portion of each of said shell members and disposed entirely outside of the outer periphery of said housing, means for connecting said clamping rings to press said confronting edges together, the material of each of said shell members being extended inwardly substantially as far, at the confronting edge of said member, as it is throughout the portion thereof in radial registration with its clamping ring, so that the confronting edges of said shell members will be in direct alignment in the direction of the axis of said housing with the material immediately within said clamping rings.

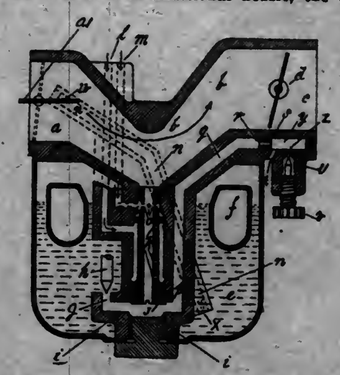
1,752,282. AUTOMOBILE LOCK MEANS. KARL A. BRAUNING, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Aug. 4, 1926, Serial No. 127,110. Renewed Aug. 18, 1928. 22 Claims. (Cl. 70—127.)



2. The combination with the steering means, ignition switch means, and clutch shaft means of an automobile, of operating means slidably supported by the steering column for simultaneously locking all of said means against operation, and means to lock said operating means.

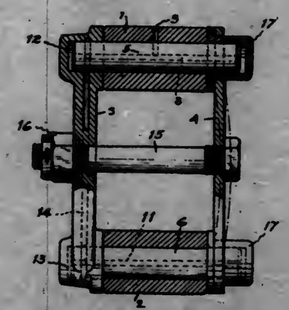
1,752,283. CARBURETOR. HENRY B. PETIT, Detroit, Mich., assignor to George M. Holley, Detroit, Mich. Filed Dec. 3, 1926. Serial No. 152,824. 3 Claims. (Cl. 261—41.)

1. In a plain tube carburetor having an air entrance, a mixing chamber of Venturi form and having a constant area, a constant level fuel supply chamber, a mixture outlet and a throttle valve therein, an air vented fuel nozzle discharging into the Venturi mixing chamber, an unvented nozzle discharging into an unrestricted portion of said air entrance, and a choke valve located therein on the atmospheric side of said additional nozzle, the unvented



nozzle being located a considerable distance above the level in the constant level fuel supply chamber, and being independently fed therefrom.

1,752,284. SPRING SHACKLE. HARRY G. TRENCH, Hartford, Conn., assignor to The Union Trust Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Jan. 18, 1926, Serial No. 81,947. Divided and this application filed May 26, 1927. Serial No. 194,294. 6 Claims. (Cl. 267—54.)



1. A shackle unit for vehicle springs comprising a pair of spaced shackle plates, pintle bearing cups carried by said plates, a pintle for each end of the shackle plates, a transverse pressure applying assembly bolt connecting intermediate portions of said plates, one of said plates being relatively yielding in order to impose adjustable pressure between the end portions of said plates.

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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (*); and of the United States Court of Customs and Patent Appeals by a star (*).]

ERRATA

1,752,484, page 102, first claim, line 5, after the word "held" insert the words *the freeing of clamping pressure of the jaws.*

1,753,423, page 357, in the heading, title of invention, for "Built-in Furnace" read *Built-in Furniture.*

1,754,696, page 691, in the heading, strike out "No. 1,754,696. Fishing Tool. John M. Sauls, Seminole, Gartner, Carroll, Nebr." and insert instead *No. 1,754,712. Wire-Holding Fence Post. Gust. Gartner, Carroll, Nebr.*

Prints, page 1080, Insert 12,498.—*Title: Para-Sac Chewing Gum. For Chewing Gum. W. D. Armstrong, Alton, Ill. Published November 11, 1929.*

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ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Abraham & Straus, Inc., New York, N. Y. Women's coats. 269,356; Apr. 1; Serial No. 292,859; published Jan. 14, 1930. Class 39.

Actien-Gesellschaft für Feinmechanik, vormals Jetter & Scheerer, Tuttlingen, Germany. Tongs, forceps, pincers, etc. 269,353; Apr. 1; Serial No. 287,603; published Jan. 14, 1930. Class 44.

Altorfer Bros. Company, East Peoria, Ill. Laundry washing machines. 269,262; Apr. 1; Serial No. 292,192; published Jan. 14, 1930. Class 24.

American Insulating Co., Detroit, Mich. Pocket-forming elements for lining and insulating building walls. 269,206; Apr. 1; Serial No. 291,376; published Jan. 21, 1930. Class 12.

American Lanolin Corporation, Lawrence, Mass. Face cream. 269,320; Apr. 1; Serial No. 292,384; published Jan. 14, 1930. Class 6.

American Oil & Disinfectant Corporation, New York, N. Y. Preparation for exterminating insects. 269,321; Apr. 1; Serial No. 292,312; published Jan. 14, 1930. Class 6.

Apex Electrical Manufacturing Company, The, Cleveland, Ohio. Ironing-machine rolls, washtubs, wringer rolls, ironing-machine pads, etc. 269,228; Apr. 1; Serial No. 281,881; published Jan. 21, 1930. Class 24.

Appert, Alfred C., to Raymond Chevallier-Appert, Paris, France, successor. Product for preserving and improving wines and other beverages. 34,191; renewed Feb. 13, 1930.

Arch Preserver Shoe Shop, Inc., The, New York, N. Y. Stockings. 269,333; Apr. 1; Serial No. 292,780; published Jan. 14, 1930. Class 39.

Arnao, Charles, Company, Minneapolis, Minn. Electrical hair driers and hair-drying apparatus. 269,289; Apr. 1; Serial No. 291,862; published Jan. 14, 1930. Class 44.

Aspegren & Co., New York, N. Y., assignor, by mesne assignments, to Portsmouth Cotton Oil Refining Corporation, Portsmouth, Va., and New York, N. Y. Cottonseed oil. 77,414; renewed Apr. 5, 1930.

Auld, D. L., Company, The, Columbus, Ohio. Jewelry. 76,786; renewed Feb. 15, 1930.

Automatic Cooking Machine Company, Inc., New Bedford, Mass. Automatic cooking machines. 269,291; Apr. 1; Serial No. 291,078; published Dec. 24, 1929. Class 23.

B. F. C. Chemical Co. (See Bender, Walker M. K.)

Babson Park Citrus Growers Association, Babson Park, Fla. Fresh citrus fruits. 269,349; Apr. 1; Serial No. 290,052; published Jan. 21, 1930. Class 46.

Bachrach-Feld Co., The, doing business as Majestic Malt Co., Cincinnati, Ohio. Malt syrup. 269,345; Apr. 1; Serial No. 289,492; published Jan. 14, 1930. Class 46.

Banana Food Products Corporation, Plainfield, N. J. Banana powder. 269,338; Apr. 1; Serial No. 292,190; published Jan. 14, 1930. Class 46.

Bender, Walker M. K., doing business as B. F. C. Chemical Co., Pollocksville, N. C. Medicinal preparation. 269,324; Apr. 1; Serial No. 291,433; published Jan. 7, 1930. Class 6.

Bendiner & Schlesinger, Inc. (See Schlesinger, Maurice F., assignor.)

Beymer, Marshall, New York, N. Y. Therapeutic devices. 269,247; Apr. 1; Serial No. 292,488; published Jan. 7, 1930. Class 44.

Bowdlear, W. H., Company, The, Boston, Mass. Beeswax. 269,319; Apr. 1; Serial No. 292,390; published Jan. 7, 1930. Class 6.

Brin, Moses A., doing business as Cupid's Laboratories Studio, Chicago, Ill. Bath powder. 269,280; Apr. 1; Serial No. 288,020; published Nov. 12, 1929. Class 6.

British Colloids Ltd., London, England, assignor to Crookes Laboratories Incorporated, New York, N. Y. Antimonium, argentum, arsenicum, etc. 269,269; Apr. 1; Serial No. 276,404; published Oct. 8, 1929. Class 6.

Bullock Brothers Athletic Supply Company, Inc., Champaign, Ill. Athletic rubbing oil, gymnasium itch ointment, antiseptic dressing, etc. 269,378; Apr. 1. Class 6.

Burnham & Morrill Company, Portland, Me. Canned vegetables. 269,350; Apr. 1; Serial No. 289,179; published Jan. 21, 1930. Class 46.

Butler Aircraft Corporation, Kansas City, Mo. Aeroplanes. 269,261; Apr. 1; Serial No. 292,248; published Jan. 21, 1930. Class 19.

Byers Machine Company, Ravenna, Ohio. Cranes, ditchers, railroad shovels, and grading devices. 269,214; Apr. 1; Serial No. 247,355; published Jan. 21, 1930. Class 23.

Calvert, John W., doing business as Hollywood U-Reduce Company, Hollywood and Sacramento, Calif. Fat-reducing creams. 269,275; Apr. 1; Serial No. 272,748; published Feb. 5, 1929. Class 6.

Campbell Soup Company. (See Hodges, Leigh M., assignor.)

Carson Pirie Scott & Co., Chicago, Ill. Golf balls. 269,217; Apr. 1; Serial No. 208,637; published Jan. 14, 1930. Class 22.

Chandler & Rudd Company, The, doing business as The Chandler & Rudd Co., Cleveland, Ohio. Candy. 269,309; Apr. 1; Serial No. 293,264; published Jan. 21, 1930. Class 46.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Filler caps of automobile radiators. 269,276; Apr. 1; Serial No. 272,389; published Jan. 15, 1929. Class 19.

Chevallier-Appert, Raymond. (See Appert, Alfred C.)

Chock-Herowitz Company, New York, N. Y. Pajamas. 269,367; Apr. 1; Serial No. 292,251; published Jan. 14, 1930. Class 39.

Cincinnati Victor Company, The, Cincinnati, Ohio. Ventilators, lamp standards, etc. 269,278; Apr. 1; Serial No. 288,222; published Jan. 21, 1930. Class 34.

Cleanwell Products Corp., St. Louis, Mo. Preparation for use as a bug and vermin exterminator, insect exterminator, etc. 269,227; Apr. 1; Serial No. 282,023; published Jan. 7, 1930. Class 6.

Clo-Jell Incorporated, New York, N. Y. Cod-liver oil incorporated in a jelly. 269,255; Apr. 1; Serial No. 292,521; published Jan. 14, 1930. Class 6.

Cole, Clifford M., doing business as Cole-Gano Pharmacal Company, Los Angeles, Calif. Bath preparations. 269,272; Apr. 1; Serial No. 275,560; published Jan. 7, 1930. Class 6.

Compañía Tabacalera Nacional, S. A., Habana, Cuba. Cigars. 269,240; Apr. 1; Serial No. 290,823; published Jan. 21, 1930. Class 17.

Conkey, Jessie C., doing business as Salbonal Co., Nortonville, Kans. Preparation for treatment of boils, etc. 269,282; Apr. 1; Serial No. 280,542; published May 14, 1929. Class 6.

Continental Nut Company, Seattle, Wash. Almonds, babassu nuts, butternuts, etc. 269,337; Apr. 1; Serial No. 267,243; published Jan. 14, 1930. Class 46.

Cracker Jack Co., The. (See Rueckheim Bros. & Eckstein, assignor.)

Cresta Blanca Company, doing business as Valencia Company, San Francisco, Calif. General medicinal tonic having a wine base. 269,374; Apr. 1. Class 6.

Crookes Laboratories Incorporated. (See British Colloids Ltd., assignor.)

Crosley Radio Corporation, The, Cincinnati, Ohio. Refrigerating apparatus and refrigerators. 269,274; Apr. 1; Serial No. 275,329; published Jan. 14, 1930. Class 31.

Cupid's Laboratories Studio. (See Brin, Moses A.)

Currier's Tablets Incorporated, Los Angeles, Calif. Medicated tablets. 269,231; Apr. 1; Serial No. 280,894; published Nov. 12, 1929. Class 6.

Cute-Craft Company, Fall River, Mass. Motor boats. 269,256; Apr. 1; Serial No. 292,440; published Jan. 14, 1930. Class 19.

Daggett & Ramsdell, New York, N. Y. Powder puffs and absorbent powder puffs. 269,243; Apr. 1; Serial No. 292,857; published Jan. 21, 1930. Class 29.

Daggett & Ramsdell, New York, N. Y. Powder puffs and absorbent powder puffs. 269,244; Apr. 1; Serial No. 292,852; published Jan. 21, 1930. Class 29.

Deery, P. J., & Company Limited, Liverpool, England. Cork grips for golf clubs and the like sporting articles. 269,241; Apr. 1; Serial No. 290,210; published Jan. 7, 1930. Class 22.

Diana Ipari es Kereskedelmi, Reszvenytarsasag, Budapest, Hungary. Mentholated alcohol, wine spirit, salt spirit or salt brandy recommended as a liniment, as a mouth wash, etc. 269,313; Apr. 1; Serial No. 260,721; published Jan. 14, 1930. Class 6.

Dodge & Olcott Company, New York, N. Y. Essential oils, flower essences, colors for perfumes, etc. 269,197; Apr. 1; Serial No. 288,786; published Jan. 14, 1930. Class 6.

Douglas Fir Plywood Institute, Tacoma, Wash. Douglas-fir plywood. 269,373; Apr. 1. Class 12.

Dreem Products Co. (See Lyons, Robert M.)

Eaton Laboratories, Inc., Kansas City, Mo. Dental plates. 269,377; Apr. 1. Class 44.

Edgett-Burnham Company, Newark, N. Y. Canned fruit and vegetables. 269,230; Apr. 1; Serial No. 281,205; published Jan. 21, 1930. Class 46.

Electrovent Corporation, Detroit, Mich. Electrically-operated ventilators and fans. 269,213; Apr. 1; Serial No. 289,921; published Jan. 14, 1930. Class 34.

Ellis Adding-Typewriter Company, The, Newark, N. J. Accounting machines, adding typewriters, etc. 269,372; Apr. 1. Class 26.

Empire Coffee & Spice Mills. (See Nichols, W. T., & Company, Inc.)

Enterprise Manufacturing Company, The, Akron, Ohio. Spinners. 269,219; Apr. 1; Serial No. 284,980; published Jan. 14, 1930. Class 22.

Farmer, Clarence R., Keokuk, Iowa. Laxative. 269,326; Apr. 1; Serial No. 290,400; published Jan. 7, 1930. Class 6.

Feedwaters Incorporated, New York, N. Y. Chemicals. 269,308; Apr. 1; Serial No. 293,215; published Jan. 14, 1930. Class 6.

Fenton, Catherine C., doing business as The Fenton Laboratories Incorporated, Waterbury, Conn. Tonic and shampoo, astringents, and cold cream. 269,273; Apr. 1; Serial No. 275,435; published Jan. 14, 1930. Class 6.

First Texas Chemical Mfg. Co., Dallas, Tex. Laxative. 269,332; Apr. 1; Serial No. 285,667; published Jan. 7, 1930. Class 6.

Fisk Rubber Company, The, Chicopee Falls, Mass., and Cudahy, Wis. Cord and square woven fabrics. 269,251–2; Apr. 1; Serial Nos. 292,624–5; published Jan. 21, 1930. Class 50.

Florian, Inc., Des Moines, Iowa. After-shaving lotion. 269,325; Apr. 1; Serial No. 290,827; published Jan. 7, 1930. Class 6.

Food Packaging Co., The, South Milwaukee, Wis. Food product. 269,363; Apr. 1; Serial No. 292,446; published Jan. 14, 1930. Class 46.

French, R. T., Company, The, assignor to The R. T. French Company, Rochester, N. Y. Coffee, spices, and flavoring extracts. 78,667; renewed June 28, 1930.

Froehlich, Robert M., doing business as Right-O Products Company, New York, N. Y. Hair tonics, toilet waters, massage lotions, etc. 269,196; Apr. 1; Serial No. 288,519; published Jan. 14, 1930. Class 6.

Gager Lime Manufacturing Co., Sherwood and Chattanooga, Tenn. Slacked lime in powdered form. 269,211; Apr. 1; Serial No. 290,509; published Jan. 21, 1930. Class 12.

Gager Lime Manufacturing Co., Sherwood and Chattanooga, Tenn. Lime. 269,212; Apr. 1; Serial No. 290,508; published Jan. 21, 1930. Class 12.

Giles, John, & Sons, Limited, Bristol, to John Giles & Sons, Limited, Leeds, England. Boot protectors of metal. 70,571; renewed Feb. 1, 1930.

Ginter, C. H., Santa Monica, Calif. Shampoo and hair tonic. 269,295; Apr. 1; Serial No. 293,042; published Jan. 7, 1930. Class 6.

Glitzke, Ewald C., doing business as The Pyro-Di Co., Kansas City, Mo. Germicide and antiseptic. 269,314; Apr. 1; Serial No. 292,989; published Jan. 7, 1930. Class 6.

Globe Machinery & Supply Company, Des Moines, Iowa. Automobile hoist. 269,292; Apr. 1; Serial No. 291,002; published Jan. 21, 1930. Class 23.

Gotham Silk Hosiery Company, Inc., New York, N. Y. Hosiery. 269,362; Apr. 1; Serial No. 292,448; published Jan. 14, 1930. Class 39.

Gotham Silk Hosiery Company, Inc., New York, N. Y. Hosiery. 269,368; Apr. 1; Serial No. 292,449; published Jan. 14, 1930. Class 39.

Grant, W. T. Company, Lynn, Mass., and New York, N. Y. Ties and cravats. 269,311; Apr. 1; Serial No. 293,098; published Jan. 14, 1930. Class 39.

Grey Iron Casting Company, Mount Joy, Pa. Toy guns. 269,242; Apr. 1; Serial No. 292,990; published Jan. 14, 1930. Class 22.

Grocers & Producers Co., The, Cleveland, Ohio. Food products. 269,380; Apr. 1. Class 46.

Gross, Ilona K., San Francisco, Calif. Dresses, coats, hats, etc. 269,312; Apr. 1; Serial No. 293,044; published Jan. 14, 1930. Class 39.

Handal, S., & Bros., New York, N. Y. Hosiery. 269,341; Apr. 1; Serial No. 291,615; published Jan. 14, 1930. Class 39.

Hansen Manufacturing Company, Inc., Princeton, Ind. Electric clocks. 269,307; Apr. 1; Serial No. 293,427; published Jan. 21, 1930. Class 27.

Hardy, Zelie, Paris, France. Preparation for the treatment of affections of the venal systems, etc. 269,297–8; Apr. 1; Serial Nos. 293,369–70; published Jan. 14, 1930. Class 6.

Harris, D. P., Hardware & Manufacturing Co. Inc. (See Stevens Walden-Worcester, Inc., assignor.)

Hart Chemical Co., Miami, Fla. Inhalant. 269,201; Apr. 1; Serial No. 291,766; published Jan. 14, 1930. Class 6.

Heisey, A. H., & Co., Inc., to A. H. Heisey & Co., Newark, Ohio, successor. Pressed glassware. 75,897; renewed Nov. 23, 1929.

Henderson, Mrs. Elizabeth, doing business as Kol-Sor-Ine Company, San Francisco, Calif. External medicine. 269,229; Apr. 1; Serial No. 281,663; published Jan. 7, 1930. Class 6.

Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Hose, belting, and packing. 269,381; Apr. 1. Class 35.

Hodges, Leigh M., Philadelphia, Pa., assignor, by mesne assignments, to Campbell Soup Company, Camden, N. J. Magazine. 77,148; renewed Mar. 15, 1930.

Hollywood U-Reduce Company. (See Calvert, John W.)

Holmes, Nellie, doing business as Mme. Nellie Holmes, Philadelphia, Pa. Compound salve hair grower. 269,318; Apr. 1; Serial No. 292,629; published Jan. 14, 1930. Class 6.

Hopland Fruit Growers' Association, Hopland, Calif. Fresh deciduous fruits. 269,306; Apr. 1; Serial No. 293,429; published Jan. 21, 1930. Class 46.

Hudson, J. L., Company, The, Detroit, Mich. Women's hosiery. 269,360; Apr. 1; Serial No. 292,580; published Jan. 14, 1930. Class 39.

Illinois Ink Corporation, The, Chicago, Ill. Cleansing and revitalizing compound. 269,279; Apr. 1; Serial No. 287,580; published Jan. 14, 1930. Class 6.

Iowa Fiber Box Company, Keokuk, Iowa. Shipping containers. 269,305; Apr. 1; Serial No. 293,100; published Jan. 21, 1930. Class 2.

Israel, Abraham, Newburgh, N. Y. Maltless beverages. 269,379; Apr. 1. Class 45.

James Manufacturing Company, Fort Atkinson, Wis. Name plates, waterers, feeders, poultry nests, etc. 269,203; Apr. 1; Serial No. 291,671; published Jan. 21, 1930. Class 50.

James Manufacturing Company, Fort Atkinson, Wis. Steel supporting columns, metal window for hog houses, etc. 269,204; Apr. 1; Serial No. 291,667; published Jan. 21, 1930. Class 12.

Judd, H. L., Company, Inc., New York, N. Y. Metal curtain rods, sockets, etc. 269,264; Apr. 1; Serial No. 292,112; published Jan. 14, 1930. Class 12.

Kalamazoo Sled Company, The, Kalamazoo, Mich. Coaster sleds. 269,233; Apr. 1; Serial No. 280,899; published Sept. 3, 1929. Class 22.

Kennesaw Mountain Chemical Company, Marietta, Ga. Preparation for professional use in the relief of pain and control of fever. 269,322; Apr. 1; Serial No. 292,171; published Jan. 14, 1930. Class 6.

Kennesaw Mountain Chemical Company, doing business as 20–80 Laboratory, Marietta, Ga. Preparation to be taken internally for use in the relief and treatment of indigestion, biliousness, etc. 269,323; Apr. 1; Serial No. 292,170; published Jan. 14, 1930. Class 6.

Kirshbaum, B., & Company, Chicago, Ill. Suits, coats, pants, etc. 269,237; Apr. 1; Serial No. 277,170; published Jan. 14, 1930. Class 39.

Kol-Sor-Ine Company. (See Henderson, Mrs. Elizabeth.)

Kosher Sugar and Syrup Co., Inc., New York, N. Y. Sugar, table syrups, molasses, etc. 269,335; Apr. 1; Serial No. 256,630; published Jan. 14, 1930. Class 46.

Lakeside Company, Hermansville, Mich. Blowers for use with warm-air furnaces and for ventilating purposes. 269,260; Apr. 1; Serial No. 292,361; published Jan. 14, 1930. Class 34.

Lamb & Hill, McClure, Ill. Medicine. 269,266; Apr. 1; Serial No. 291,985; published Jan. 14, 1930. Class 6.

Lancaster Inc., Los Angeles, Calif. Compound for the treatment of burns, sunburn, pimples, etc. 269,327; Apr. 1; Serial No. 289,195; published Oct. 22, 1929. Class 6.

Lanman & Kemp, Inc., New York, N. Y. Pectoral compound and an anodyne. 269,254; Apr. 1; Serial No. 292,539; published Jan. 14, 1930. Class 6.

Laurel Soap Manufacturing Co., Inc., Philadelphia, Pa. Disinfectants, fly spray, textile softener, etc. 269,207; Apr. 1; Serial No. 291,279; published Jan. 14, 1930. Class 6.

Lawson, Kenneth F., doing business as Paper Roll Plug Company, Menasha, Wis. Plugs for paper rolls. 269,267; Apr. 1; Serial No. 291,836; published Jan. 21, 1930. Class 2.

Lebanon Shirt Company, Lebanon, Lititz, Lexington, and Hebron, Pa., and New York, N. Y. Shirts. 269,365; Apr. 1; Serial No. 292,406; published Jan. 14, 1930. Class 39.

Lewis, Rosemarie, Los Angeles, Calif. Preparations of an antiseptic nature, germicides, and deodorants. 269,293; Apr. 1; Serial No. 293,143; published Jan. 14, 1930. Class 6.

Linder and Linder, doing business as A. J. Linder and Co., Rockford, Ill. Sandwich dressing. 269,271; Apr. 1; Serial No. 275,737; published Jan. 14, 1930. Class 46.

Little Rock Tent & Awning Co., Little Rock, Ark. Pick sacks. 269,200; Apr. 1; Serial No. 289,897; published Jan. 14, 1930. Class 2.

Lloyd, Richard L., Providence, R. I. Automatic bowling game apparatus. 269,352; Apr. 1; Serial No. 288,305; published Jan. 14, 1930. Class 22.

Los Ramos Cigar Company, The, Sidney, Ohio. Cigars. 269,310; Apr. 1; Serial No. 293,186; published Jan. 21, 1930. Class 17.

Lowenbaum, E., Mfg. Co., St. Louis, Mo. Outer wearing apparel for women and girls. 269,357; Apr. 1; Serial No. 292,882; published Jan. 14, 1930. Class 39.

Lyons, Robert M., doing business as Dreem Products Co., Philadelphia, Pa. Malt syrup. 269,342; Apr. 1; Serial No. 291,010; published Jan. 14, 1930. Class 46.

MacAndrews & Forbes Company, Camden, N. J. Medicinal preparation. 269,210; Apr. 1; Serial No. 290,580; published Jan. 14, 1930. Class 6.

Maddock's, Thomas, Sons Co., Trenton, N. J. Lavatories, drinking fountains, water-closets, etc. 269,216; Apr. 1; Serial No. 224,921; published Feb. 23, 1926. Class 13.

Magazine Publishers, Inc., New York, N. Y. Periodical. 269,284; Apr. 1; Serial No. 279,900; published Apr. 9, 1929. Class 38.

Ma Girl, P. H., Foundry & Furnace Works, Bloomington, Ill. Furnaces, heating systems, and parts thereof. 269,259; Apr. 1; Serial No. 292,366; published Jan. 14, 1930. Class 34.

Majestic Malt Co. (See Bachrach-Feld Co., The.)

Malt-Diastase Company, Brooklyn, N. Y. Malt extracts and malt sugars. 269,344; Apr. 1; Serial No. 290,472; published Jan. 14, 1930. Class 46.

Marcel Guerlain, Inc., New York, N. Y. Perfume. 269,371; Apr. 1. Class 6.

Marta Knitting Co., Manitowoc, Wis. Bathing suits. 269,348; Apr. 1; Serial No. 290,758; published Jan. 14, 1930. Class 39.

McCoy, Thurman H., Atlanta, Ga. Playing cards. 269,245; Apr. 1; Serial No. 292,742; published Jan. 14, 1930. Class 22.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Medical preparation. 269,299; Apr. 1; Serial No. 293,000; published Jan. 7, 1930. Class 6.

Miller Peanut Products Company, Detroit, Mich. Salted peanuts. 269,288; Apr. 1; Serial No. 291,925; published Jan. 21, 1930. Class 46.

Millers, Inc., New York, N. Y. Hosiery, underwear, lingerie, etc. 269,358; Apr. 1; Serial No. 292,817; published Jan. 14, 1930. Class 39.

Moland's, William, Sons, assignor to Wm. Moland's Sons, Inc., Philadelphia, Pa. Ham, bacon, dried beef, and lard. 77,821; renewed May 10, 1930.

Montgomery Ward & Co. Incorporated, Chicago, Ill. Bicycles. 269,208; Apr. 1; Serial No. 291,132; published Jan. 21, 1930. Class 19.

National Gary Corporation, New York, N. Y. Hair nets. 269,369; Apr. 1. Class 42.

National Grocer Company, Detroit, Mich. Cigars. 269,282; Apr. 1; Serial No. 292,281; published Jan. 21, 1930. Class 17.

National Grocer Company, Detroit, Mich. Grape juice. 269,283; Apr. 1; Serial No. 292,280; published Jan. 21, 1930. Class 45.

National Grocer Company, Detroit, Mich. Brooms. 269,284; Apr. 1; Serial No. 292,277; published Jan. 21, 1930. Class 29.

National Washboard Company, Chicago, Ill. Washboards. 269,248–50; Apr. 1; Serial Nos. 292,888–90; published Jan. 21, 1930. Class 24.

Nestlé's Food Company, Inc., New York, N. Y. Milk and cheese. 269,340; Apr. 1; Serial No. 291,930; published Jan. 14, 1930. Class 46.

Neutrasol Products Corporation, New York, N. Y. Processed oil. 269,294; Apr. 1; Serial No. 293,064; published Jan. 7, 1930. Class 6.

Nichols, W. T., & Company, Inc., doing business as Empire Coffee & Spice Mills, Jackson, Miss. Compound of coffee and chicory. 269,285; Apr. 1; Serial No. 292,116; published Jan. 21, 1930. Class 46.

Noack, H. M., & Sons, to H. C. Noack, doing business as H. M. Noack & Sons, successor. Dressed poultry and eggs. 79,146; renewed Aug. 9, 1930.

Nurito Co., The, Chicago, Ill. Medicinal preparation. 269,238; Apr. 1; Serial No. 277,077; published Mar. 5, 1929. Class 6.

Ogden-Utah Knitting Company, Ogden, Utah. Ladies' pajamas. 269,336; Apr. 1; Serial No. 255,923; published Dec. 13, 1927. Class 39.

Ohio Truss Company, The, Cincinnati, Ohio. Wristbands, wrist supports, and wrist developers. 269,215; Apr. 1; Serial No. 286,952; published Jan. 14, 1930. Class 44.

Owens-Illinois Glass Company, Toledo, Ohio. Bottles, jars, jugs, etc. 269,225; Apr. 1; Serial No. 283,344; published Jan. 7, 1930. Class 32.

Pac-Kups Incorporated, Easton, Pa. Paper cups and containers therefor. 269,198; Apr. 1; Serial No. 289,364; published Jan. 21, 1930. Class 2.

Palmer, Solon, New York, N. Y. Preparation to be used as a hair tonic. 269,300; Apr. 1; Serial No. 293,341; published Jan. 14, 1930. Class 6.

Pape, Henry, Mayonnaise Co., Inc., Brooklyn, N. Y. Mayonnaise. 269,364; Apr. 1; Serial No. 292,415; published Jan. 14, 1930. Class 46.

Paper Roll Plug Company. (See Lawson, Kenneth F.)

Parker, James A. I., Baltimore, Md. Preparations, alterative, and medicinal compound. 269,202; Apr. 1; Serial No. 291,735; published Jan. 14, 1930. Class 6.

Parks Hosiery Mills, Inc., Asheboro, N. C. Hosiery. 269,359; Apr. 1; Serial No. 292,504; published Jan. 14, 1930. Class 39.

Peerless Plush Manufacturing Company, Paterson, N. J. Textile blankets. 269,383; Apr. 1. Class 42.

Perfection Stove Company, Cleveland, Ohio. Refrigerators and refrigeration apparatus. 269,355; Apr. 1; Serial No. 292,893; published Jan. 14, 1930. Class 31.

Phillips-Jones Corporation, New York, N. Y. Men's athletic drawers or running pants. 269,361; Apr. 1; Serial No. 292,459; published Jan. 14, 1930. Class 39.

Pierre, Dr., Chemical Co., Chicago, Ill. Tablets which produce a refreshing and antiseptic solution. 269,330; Apr. 1; Serial No. 287,004; published Jan. 14. Class 6.

Pilsner Importing Co., New York, N. Y. Food-flavoring extracts. 269,236; Apr. 1; Serial No. 278,056; published Mar. 19, 1929. Class 46.

Pool Manufacturing Company, Sherman, Tex. Children's play suits and overalls. 269,366; Apr. 1; Serial No. 292,335; published Jan. 14, 1930. Class 39.

Portland Cordage Company, The, Portland, Oreg. Twines, ropes, and cords. 269,385; Apr. 1. Class 7.

Portsmouth Cotton Oil Refining Corporation. (See Aspegren & Co., assignor.)

Powder Puff Shop, Minneapolis, Minn. Liquid toilet creams, face powders, skin lubricant, etc. 269,328–9; Apr. 1; Serial Nos. 288,664–5; published Jan. 7, 1930. Class 6.

Pycopé Incorporated, Joplin, Mo. Tooth powder. 269,334; Apr. 1; Serial No. 259,639; published Jan. 14, 1930. Class 6.

Pyro-Di Co., The. (See Glitzke, Ewald C.)

Red & White Corp'n, Buffalo, N. Y. Washing powder, wallpaper cleaner, soaps, etc. 269,386; Apr. 1. Class 4.

Reid, Alexander F., Brooklyn, to Alex. F. Reid & Sons, Inc., New York, N. Y., successor. Cord and twines. 34,328; renewed Mar. 20, 1930.

Reid, Alexander F., Brooklyn, to Alex. F. Reid & Sons, Inc., New York, N. Y., successor. Cords and thread. 34,329; renewed Mar. 20, 1930.

Revere Clock Company, The, Cincinnati, Ohio. Clocks. 269,308; Apr. 1; Serial No. 293,348; published Jan. 21, 1930. Class 27.

Right-O Products Company. (See Froehlich, Robert M.)

Rolls Razor (1927) Limited, London, England, by change of name Rolls Razor Limited. Combination and apparatus for honing and stropping razors, and parts thereof. 269,370; Apr. 1. Class 28.

Rueckheim Bros. & Eckstein, assignor to The Cracker Jack Co., Chicago, Ill. Canned pop corn. 79,010; renewed July 26, 1930.

St. Paul and Tacoma Lumber Co., Tacoma, Wash. Wood shingles. 269,384; Apr. 1. Class 12.

Salbonal Co. (See Conkey, Jessie C.)

San-Nap-Pak Mfg. Co., Inc., New York, N. Y. Sanitary napkins. 269,246; Apr. 1; Serial No. 292,463; published Jan. 14, 1930. Class 44.

Sanitary Latherole Co. Inc., Englewood, N. J. Device for producing and dispensing lather. 269,265; Apr. 1; Serial No. 292,050; published Jan. 21, 1930. Class 13.

Schlesinger, Maurice F., assignor to Bendiner & Schlesinger, Inc., Ne York, N. Y. Salve for eczema. 78,738; renewed July 5, 1930.

Schlüter, Theodor, sen., Dresden, Germany. Wheat flour, rye flour, oatmeal, etc. 269,348; Apr. 1; Serial No. 287,205; published Jan. 14, 1930. Class 46.

Scholl Manufacturing Company, Inc., Chicago, Ill. Foot corrective appliances. 269,218; Apr. 1; Serial No. 206,092; published Feb. 3, 1925. Class 44.

Sears, Roebuck and Co., Chicago, Ill. Toy aeroplane construction sets. 269,290; Apr. 1; Serial No. 291,842; published Jan. 7, 1930. Class 22.

Shasky, Otto S., Minneapolis, Minn. Preparation for contagious abortion in cattle. 269,222; Apr. 1; Serial No. 284,085; published Jan. 7, 1930. Class 6.

Sheehy & Cumming, Watsonville, Calif. Fresh vegetables. 269,287; Apr. 1; Serial No. 292,054; published Jan. 21, 1930. Class 46.

Simmons, George W., Corporation, St. Louis, Mo., assignor to George W. Simmons Corporation. Paper bags. 269,257–8; Apr. 1; Serial Nos. 292,872–3; published Jan. 14, 1930. Class 2.

Smart & Final Co., Wilmington, Calif. Canned fruits, vegetables, fish, etc. 269,268; Apr. 1; Serial No. 287,097; published Jan. 14, 1930. Class 46.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine. 269,304; Apr. 1; Serial No. 293,113; published Jan. 14, 1930. Class 6.

Southwest Pump Company, Bonham, Tex. Barrel trucks. 269,209; Apr. 1; Serial No. 290,960; published Jan. 14, 1930. Class 19.

Squibb, E. R., & Sons, New York, N. Y. Vitaminous dietary supplement. 269,317; Apr. 1; Serial No. 292,687; published Dec. 31, 1929. Class 6.

Sté des Ocres du Midi, Paris, France. Raw ochers, pigments for general use. 269,223; Apr. 1; Serial No. 283,763; published Dec. 24, 1929. Class 6.

Stevens, Chas. A., & Bros., Chicago, Ill. Face powder. 269,332; Apr. 1. Class 6.

Stevens Walden-Worcester, Inc., Worcester, Mass., assignor to D. P. Harris Hardware & Manufacturing Co. Inc., New York, N. Y. Metal pedal couplings for bicycles. 269,194; Apr. 1; Serial No. 288,288; published Jan. 14, 1930. Class 19.

Sturtevant, B. F., Company, Hyde Park, Boston, Mass. Heating units, air heaters, stokers, etc. 269,199; Apr. 1; Serial No. 289,767; published Jan. 21, 1930. Class 34.

Suburban Construction Company, Ardmore, Pa. Asphalt. 269,220–1; Apr. 1; Serial Nos. 284,374–5; published Oct. 15, 1929. Class 12.

Sutter Packing Company, Mayfield, Calif. Canned fruits. 269,239; Apr. 1; Serial No. 277,185; published Mar. 12, 1929. Class 46.

Sutter Packing Company, Mayfield, Calif. Canned fruits. 269,286; Apr. 1; Serial No. 292,060; published Jan. 21, 1930. Class 46.

Sven Medicinal Incorporation, Omaha, Nebr. Preparation for the treatment of ringworm. 269,315; Apr. 1; Serial No. 292,759; published Jan. 7, 1930. Class 6.

Swift and Company, Chicago, Ill. Gelatin. 269,350; Apr. 1; Serial No. 292,080; published Jan. 14, 1930. Class 46.

Swift and Company, Chicago, Ill. Fish oil. 269,347; Apr. 1; Serial No. 288,096; published Jan. 14, 1930. Class 46.

Tan Sad, Limited, Birmingham, England. Perambulators, baby carriages and cars, etc. 269,270; Apr. 1; Serial No. 275,860; published Jan. 14, 1930. Class 19.

Todd-Werner Co., Kenmore, N. Y. Preparation for treating rheumatism, arthritis, etc. 269,195; Apr. 1; Serial No. 288,491; published Jan. 14, 1930. Class 6.

Tootal, Sydney M., Blackpool, England. Synthetic dyes. 269,316; Apr. 1; Serial No. 292,689; published Jan. 14, 1930. Class 6.

20–80 Laboratory. (See Kennesaw Mountain Chemical Company.)

United Gum Corporation, Chicago, Ill. Chewing gum. 269,354; Apr. 1; Serial No. 284,804; published Jan. 21, 1930. Class 46.

United Shoe Machinery Corporation, Boston, Mass. Dye, patent-leather finish, and edge, shank, and heel ink. 269,331; Apr. 1; Serial No. 286,898; published Jan. 7, 1930. Class 6.

United States Gypsum Company, Chicago, Ill. Stucco and plaster. 269,253; Apr. 1; Serial No. 292,561; published Jan. 21, 1930. Class 1.

Valencia Company. (See Cresta Blanca Company.)

Vensie, Frederick M., Philadelphia, Pa. Ceiling, wall, and partition structure. 269,375; Apr. 1. Class 12.

Vitex Company, Inc., Kansas City, Mo. Fly exterminator, poultry tonic, roup treatment, etc. 269,224; Apr. 1; Serial No. 283,523; published Jan. 7, 1930. Class 6.
Voss Bros. Mfg. Co., Davenport, Iowa. Laundry washing machines and parts thereof. 269,285; Apr. 1; Serial No. 279,580; published Jan. 14, 1930. Class 24.
Walker, John, & Sons, Limited, Kilmarnock, Scotland, and London, assignor to John Walker & Sons, Limited, London, England. Scotch whiskies. 78,286; renewed May 31, 1930.
Warren-Allen Carpet Company, Boston, Mass., and Cleveland, Ohio. Rug cushion pads. 269,205; Apr. 1; Serial No. 291,597; published Jan. 21, 1930. Class 50.
Waterbury Chemical Company, Inc., New York, N. Y. Medicine. 269,301–2; Apr. 1; Serial Nos. 293,298–9; published Jan. 14, 1930. Class 6.
Webster, William A., Company, The, Memphis, Tenn. Dental cream, talcum powder, magnesia, etc. 269,263; Apr. 1; Serial No. 292,139; published Jan. 14, 1930. Class 6.
Wescott Rule Company, Incorporated, Seneca Falls, N. Y. Desk rulers. 269,376; Apr. 1. Class 26.
Wilbur, H. O., & Sons, assignor to Wilbur-Suchard Chocolate Company, Inc., Philadelphia, Pa. Chocolate. 72,813; renewed Feb. 23, 1929.
Will, C. H., Motors Corporation, Minneapolis, Minn. Motor coaches, buses, and trucks. 269,226; Apr. 1; Serial No. 282,082; published Jan. 14, 1930. Class 19.
Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Fuel heating systems. 269,277; Apr. 1; Serial No. 272,374; published Jan. 21, 1930. Class 34.
Worthy Manufacturing Company, Chicago, Ill. Children's overalls and play suits. 269,246; Apr. 1; Serial No. 288,259; published Jan. 14, 1930. Class 39.
Wright, Fred N., doing business as Wright Medicine Company, Federalsburg, Md. Medicine. 269,296; Apr. 1; Serial No. 293,018; published Jan. 7, 1930. Class 6.
Yoder Brothers, Barberton, Ohio. Fresh mushrooms. 269,281; Apr. 1; Serial No. 292,308; published Jan. 21, 1930. Class 46.
Yuma Mesa Grapefruit Company, Yuma, Ariz. Fresh grapefruit. 269,351; Apr. 1; Serial No. 288,943; published Jan. 21, 1930. Class 46.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Baker, William C., doing business as Bill Baker, Ojai, Calif. Lima Bean Wafers. For Lima-Bean Wafers. 37,293; Apr. 1.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Plain Noodles. For Noodles. 37,294; Apr. 1.
Chanbro Pharmacal Co., Boston, Mass. T-Ang for Children. For Cough Remedy. 37,295; Apr. 1.
Double Eagle Bottling Co., The, Cleveland, Ohio. Vienna Brand. For Ginger Ale. 37,296; Apr. 1.
Eastridge, John R., Washington, D. C. Eastridge's Butterfly Perfume. For Perfume. 37,297; Apr. 1.
Expello Corporation, The, Dover, N. H. Expello Handy Bags for Chests, Trunks, Packages, Etc. For Moth and Worm Killer. 37,298; Apr. 1.
Expello Corporation, The, Dover, N. H. Expello Twelve Handy Bags. For Moth and Worm Killer. 37,299; Apr. 1.
Gabriel, Julius, San Francisco, Calif. Gabriel's Famous Healing Dusting Powder. For Healing Dusting Powder. 37,300; Apr. 1.
Godfrey, Alfred W., Boston, Mass. Carlson's Sweetish Rye Bread. For Rye Bread. 37,301; Apr. 1.
Horner, Samuel, jr., De Land, Fla. Narcissus Bulbs. For Narcissus Bulbs. 37,302; Apr. 1.
Huston, Culver & Co. Incorporated, Seaford, Del. Ideal Brand Hearts of Gold Cantaloupes. For Cantaloupes. 37,303; Apr. 1.
Jones, Jesse, Cooksville, Canada. Digestine. For Medicine. 37,304; Apr. 1.
My-T-Fine Corporation, Brooklyn, N. Y. D & C—For Making Lemon Pie. For Ingredients for Making Lemon Pie. 37,305; Apr. 1.
Nu-On Products Company. (See Olnes, Nels.)
Olnes, Nels, doing business as Nu-On Products Company, San Francisco, Calif. German Malt Syrup. For Malt Syrup. 37,306; Apr. 1.
Pretz-Sticks Baking Company, Myerstown, Pa. Holtzman's Pretz-Sticks. For Pretzels. 37,307; Apr. 1.
Rino Laboratories Co., Los Angeles, Calif. Rino. For Orange Salt. 37,308; Apr. 1.
Scott Paper Company, Chester, Pa. No. 51 Service Roll. For Roll Toilet Paper. 37,309; Apr. 1.
Super Wonder Glue Co., Portland, Oreg. Super Wonder Glue Co. For Glue. 37,310; Apr. 1.
Thorobread Company, The, Cincinnati, Ohio. Thorobread. For Dog Food. 37,311; Apr. 1.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Goodling, Daniel W., doing business as Keystone Hatchery, Richfield, Pa. Keystone Chicks. For Chicks. 12,465; Apr. 1.
Heinz, H. J., Company, Pittsburgh, Pa. Oysters En Brochette . . With Heinz Tomato Ketchup. For Tomato Ketchup. 12,466; Apr. 1.
Keystone Hatchery. (See Goodling, Daniel W.)
Korker Company, The, Cincinnati, Ohio. Korkers. For Repair Device For Hosiery. 12,467; Apr. 1.
Wales Novelties Corporation, New York, N. Y. Wales Trimpak. For Cigarettes. 12,468; Apr. 1.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb, 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aktiebolaget Elektrolux, Stockholm, Sweden. Filters and parts therefor. 285,489; Apr. 1. Class 31.
Alberene Stone Company, New York, N. Y. Laundry trays and kitchen sinks. 293,612; Apr. 1. Class 13.
Allen Manufacturing Company, The, Hartford, Conn. Machine screws and threaded metal plugs. 294,834; Apr. 1. Class 13.
American Hecolite Denture Corporation, Portland, Oreg. Artificial-denture press. 295,883; Apr. 1. Class 44.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Wire fencing, and particularly straight-line poultry netting. 295,599; Apr. 1. Class 13.
Arnao, Charles, Company, Minneapolis, Minn. Electrical hair driers and electrical scalp steamers. 295,972; Apr. 1. Class 44.
Assembled Products Company, Inc., New York, N. Y. Bias binding. 295,990; Apr. 1. Class 40.
Baby Health Products, Inc., Brooklyn, N. Y. Talcum powder for babies. 285,617; Apr. 1. Class 6.
Baldwin Company, The, Cincinnati, Ohio. Radio receiving sets and loud-speakers, transformers, tube sockets, etc. 278,923; Apr. 1. Class 21.
Bay View Creamery. (See Suchman & McRoberts, Inc.)
Bohn, Harry, doing business as The Cofield Washer Company, Dayton, Ohio. Clothes-washing machines and clothes wringers. 293,867; Apr. 1. Class 24.
Bokoshe Smokeless Coal Co., Bokoshe, Okla. Coal. 272,126; Apr. 1. Class 1.
Bond Pickle Company, Oconto, Wis. Canned sauerkraut. 295,830; Apr. 1. Class 46.
Bossong, J. C., & Co., Inc., New York, N. Y. Hosiery. 294,414; Apr. 1. Class 39.
California Crushed Fruit Corporation, Los Angeles, Calif. Maltless beverages, syrups, extracts, and concentrates for making the same. 296,101; Apr. 1. Class 45.
Campbell, Doris E., doing business as Campbell X-Ray Company of Boston, Boston, Mass. X-ray apparatus. 295,772; Apr. 1. Class 44.
Central Farm Products Company, Waco, Tex. Dairy-cow feed, sweet feed, beef fattener, etc. 293,406; Apr. 1. Class 46.
Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 296,262; Apr. 1. Class 37.
Charred Bag Company, Salisbury, N. C. Liquid-purifying device. 292,976; Apr. 1. Class 50.
Chex Chemical Company. (See Shavelson, Abraham N.)
Citti, Giuseppe, Chicago, Ill. Olive oil. 295,254; Apr. 1. Class 46.
City Machine & Tool Works. (See Poock, O. M.)
Cockrell, Barney B., doing business as Red Ball Stores, Drew, Miss. Men's and boys' suits, overcoats, raincoats, etc. 275,559; Apr. 1. Class 39.
Cofield Washer Company, The. (See Bohn, Harry.)

PUBLISHED FOR OPPOSITION

[Act of Feb, 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Columbia Phonograph Company, Inc., Bridgeport, Conn. Phonograph records. 291,204; Apr. 1. Class 36.
Cu-Vel Company, Philadelphia, Pa. Manicure sets. 294,293; Apr. 1. Class 44.
Dainty Tiny Togs, Inc., New York, N. Y. Baby boys' suits. 295,926; Apr. 1. Class 39.
Day, Allan C., doing business as A. C. Day Laboratories, South Orange, N. J. Liniment. 295,852; Apr. 1. Class 6.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 267,645; Apr. 1. Class 46.
Detmer, Bruner & Mason, Inc., New York, N. Y. Woolen and worsted fabrics in the piece. 295,932; Apr. 1. Class 42.
Deutschmann, Tobe, Company, Canton, Mass., assignor to Tobe Deutschmann Company. Combination of condensers and inductances forming filter units. 269,374; Apr. 1. Class 21.
Deutschmann, Tobe, doing business as Tobe Deutschmann Company, Cambridge, Mass. Accessory unit for electrical apparatus. 277,617; Apr. 1. Class 21.
Dewey & Almy Chemical Company, North Cambridge, Mass. Porous rubber sheets for use as filtering media. 294,063; Apr. 1. Class 31.
Dick, A. B., Company, Chicago, Ill. Stencil paper. 295,559; Apr. 1. Class 37.
Dolly Dress Co., Inc., Derby, Conn. Dresses. 295,786; Apr. 1. Class 39.
Dominican Sugar Refining Company, C. por A., Ingenio Boca Chica, Dominican Republic. Sugar. 257,535; Apr. 1. Class 46.
Dominion Electrical Mfg. Company, Minneapolis, Minn. Electrical toasters. 295,729; Apr. 1. Class 21.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Trade publication or magazine. 295,777; Apr. 1. Class 38.
Eastman Kodak Company, Rochester, N. Y. Sensitized photographic paper. 295,609; Apr. 1. Class 26.
Eclipse Fountain Pen and Pencil Co. Inc., New York, N. Y. Fountain pens and pencils. 296,267; Apr. 1. Class 37.
Edwards Manufacturing Company, The, Cincinnati, Ohio. Tops. 288,469; Apr. 1. Class 22.
Elam Mills, Inc., Chicago, Ill. Breakfast cereal. 296,328; Apr. 1. Class 46.
Electric Storage Battery Company, The, Philadelphia, Pa. Storage batteries. 295,367; Apr. 1. Class 21.
Ely & Walker Dry Goods Company, St. Louis, Mo. Luggage. 293,033; Apr. 1. Class 3.
Els, Lorens P., doing business as Norine Co., St. Louis, Mo. Medicinal preparation. 296,222; Apr. 1. Class 6.
Enid Manufacturing Co. Inc., New York, N. Y. Brassières, garter belts, and girdles. 296,003; Apr. 1. Class 39.
Enid Manufacturing Co. Inc., New York, N. Y. Brassières, garter belts, and girdles. 296,005; Apr. 1. Class 39.
Ethyl Gasoline Corporation, New York, N. Y. Chemical carbon remover. 296,410; Apr. 1. Class 6.
Excelsior Supply Company. (See Mulherin, William F.)
Feldman, Nathan, doing business as Felko Supply Co., New Brunswick, N. J. Canned malt syrup. 296,007; Apr. 1. Class 46.
Felko Supply Co. (See Feldman, Nathan.)
Field, Edwin, & Sons, Limited, Skelmanthorpe, near Huddersfield, England. Floor rugs and mats. 280,329; Apr. 1. Class 42.
Fink & Easter Company, The, Baltimore, Md. Umbrellas and parasols. 295,789; Apr. 1. Class 41.
First National Stores Inc., Boston and Somerville, Mass. Toilet and wax paper. 295,666; Apr. 1. Class 37.
First National Stores Inc., Boston and Somerville, Mass. Jar rings. 295,667; Apr. 1. Class 35.
First National Stores Inc., Boston and Somerville, Mass. Mops, brooms, and scrub brushes. 295,668; Apr. 1. Class 29.
Firth-Sterling Steel Company, McKeesport, Pa. Steel bars, forgings, blocks, etc. 294,110; Apr. 1. Class 14.
Fitzgerald Manufacturing Company, The, Torrington, Conn. Electric heating pads. 295,213–14; Apr. 1. Class 44.
Ford Roofing Products Co., Chicago, Ill. Composition roofing and composition shingles. 295,120; Apr. 1. Class 12.
Forsinger, J. W., Co., Chicago, Ill. Diamonds and diamond rings. 294,666; Apr. 1. Class 28.
Franklin Baker Company, New York, N. Y. Prepared coconut. 295,991; Apr. 1. Class 46.
Fuller, W. P., & Co., San Francisco, Calif. Dry cleaner. 294,916; Apr. 1. Class 4.
Fulton, E. E., Co., Chicago, Ill. Polish. 294,967; Apr. 1. Class 16.
Fulton, E. E., Co., Chicago, Ill. Mineral oil and a compounded oil. 294,968; Apr. 1. Class 15.
Fulwear Hosiery Mills, The, Columbus, Ga. Hosiery. 295,841; Apr. 1. Class 39.
Garners Inc., Memphis, Tenn. Coffee. 287,658; Apr. 1. Class 46.
General Candy Corporation, Chicago, Ill. Candy. 296,132; Apr. 1. Class 46.
General Distributors Company, Brooklyn, N. Y. Citrate of magnesia. 293,923; Apr. 1. Class 6.
General Electric Company, Schenectady, N. Y. Arc tubes. 293,526; Apr. 1. Class 21.
Gerhart, R. L., doing business as R. L. Gerhart & Co., Lancaster, Pa. Coffee and tea. 294,384; Apr. 1. Class 46.
Gilpin, Henry B., Company, The, Baltimore, Md. Toilet powder. 296,118; Apr. 1. Class 6.
Globe-Union Mfg. Co., Milwaukee, Wis. Wet storage batteries. 288,555; Apr. 1. Class 21.
Godchaux, Leon, Clothing Co. Ltd., The, New Orleans, La. Suits and overcoats. 296,117; Apr. 1. Class 39.
Goldberg, Bertram, Johnstown, N. Y. Warp-knit fabrics. 295,299; Apr. 1. Class 42.
Goldberg Seed & Feed Company, Fargo, N. Dak. Seed. 289,513; Apr. 1. Class 1.
Goldstein-Wilkins Corporation, New York, N. Y. Piece goods. 288,328–9; Apr. 1. Class 42.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Automobile top dressing. 291,216; Apr. 1. Class 4.
Gorham and Wing, Lexington, Ky. Rubbing liniment. 295,106; Apr. 1. Class 6.
Graham-Paige Motors Corporation, Dearborn, Mich. Automobiles and constructive parts thereof. 294,420; Apr. 1. Class 19.
Green Brothers Company, doing business as Green Bros. Co., Springfield, Mass. Candy. 296,057; Apr. 1. Class 46.
Greenberg Bros. Farm Produce, Inc., New York, N. Y. Eggs. 294,300; Apr. 1. Class 46.
Grossman, Jacob D., doing business as Narragansett Wholesale Grocery Co., Providence, R. I. Canned vegetables, fruits, jams, etc. 284,611; Apr. 1. Class 46.
Haartz, J. C., Company, New Haven, Conn. Mats. 295,125; Apr. 1. Class 50.
Halif, Rebecca, doing business as Madame Halif, Lynbrook, N. Y. Preparation for the treatment of the scalp. 287,297; Apr. 1. Class 6.
Hamilton Ross Factories, Inc., Chicago, Ill. Lamps. 278,539; Apr. 1. Class 21.
Heddon's, James, Sons, Dowagiac, Mich. Artificial baits. 295,977; Apr. 1. Class 22.
Herrmann Handkerchief Co., Inc., The, New York, N. Y. Handkerchiefs. 294,670; Apr. 1. Class 42.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Hose. 295,174; Apr. 1. Class 35.
Higgins and Burke, Limited, Toronto, Ontario, Canada. Coffee and tea. 290,951; Apr. 1. Class 46.
Home Heating Corporation, The, Baltimore, Md. Steam and hot-water boilers. 295,620; Apr. 1. Class 34.
Hookless Fastener Company, Meadville, Pa. Bridge sets, tennis-racket covers, and golf bags. 295,946–7; Apr. 1. Class 22.
Household Utilities Co., Chicago, Ill. Hand lotion, nail polish, perfume, etc. 291,455; Apr. 1. Class 6.
Hudson Motor Car Company, Detroit, Mich. Automobile bodies. 294,427; Apr. 1. Class 19.
Hudson Motor Car Company, Detroit, Mich. Gasoline passenger automobiles. 295,030; Apr. 1. Class 19.
Hughes, E. Griffiths, Limited, Manchester, England. Inhalant for the relief of catarrh and cold in the head. 295,787; Apr. 1. Class 6.
Hyman, S. E., Company, The, Fremont, Ohio. Covers for automobile cushions, seats, and seat backs. 295,073; Apr. 1. Class 19.
Indianapolis Glove Company, Indianapolis, Ind. Gloves. 294,728–30; Apr. 1. Class 39.
Indianapolis Glove Company, Indianapolis, Ind. Gloves. 295,178; Apr. 1. Class 39.
Inland Fire Brick Company, The, Cleveland, Ohio. Unburned fire-brick material. 291,875; Apr. 1. Class 12.
Inland Milling Company, Des Moines, Iowa. Wheat flour. 295,221; Apr. 1. Class 46.
Inland Milling Company, Des Moines, Iowa. Wheat flour. 295,223; Apr. 1. Class 46.
International Shoe Co., St. Louis, Mo. Boots and shoes. 293,141; Apr. 1. Class 39.
Jaeger Company, Inc., The, New York, N. Y. Woolen rugs and blankets, vehicle robes. 291,771; Apr. 1. Class 42.
Jelke, John F., Company, Hillsboro, Wis. Evaporated milk. 295,268; Apr. 1. Class 46.
Jobbers Service Incorporated, Coldwater, Mich. Canned vegetables, canned soups, macaroni products, etc. 292,535; Apr. 1. Class 46.
Joester Company. (See Fuetz, Peter J.)
Johns-Manville Corporation, New York, N. Y. Pipe covering, boiler covering, hot-water-tank covers, etc. 295,478; Apr. 1. Class 12.
Jordan, Marian W., Los Angeles, Calif. Exercising devices for the teeth and gums. 294,357; Apr. 1. Class 44.
Jubilee Perfumer. (See Singer, Louis.)
Kari-Keen Manufacturing Co., Inc., Sioux City, Iowa. Luggage carrier. 294,808; Apr. 1. Class 3.
Kaylon Incorporated, Troy and New York, N. Y. Shirts. 296,014–15; Apr. 1. Class 39.
Kendall Company, The, Boston, Mass., and Chicago, Ill. Corn and bunion plasters. 288,076; Apr. 1. Class 6.
Kendig, B. Benjamin, New York, N. Y. Machines for lettering rebound books. 296,192; Apr. 1. Class 23.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Knoll, Willy, doing business as Wilhelm Knoll, Stuttgart, Germany. Chairs, love seats, couches, etc. 291,340; Apr. 1. Class 32.
Ko-Tar Products Co., Cedar Rapids, Iowa. Poultry medicine. 295,227; Apr. 1. Class 6.
La Gerardine, Inc., New York, N. Y. Preparation for curling and waving hair. 295,800; Apr. 1. Class 6.
Lambert, Adjutor J., doing business as A. J. Lambert, Auburn, Me. Liniment. 288,750; Apr. 1. Class 6.
Lane Company, Inc., The, Altavista, Va. Cedar wardrobes, cedar chifforobes, cedar closets, cedar chests. 288,967; Apr. 1. Class 32.
Leaksville Woolen Mills, Inc., The, Charlotte, N. C. Part-wool blankets. 293,475; Apr. 1. Class 42.
Lebanon Shirt Company, Lebanon, Lititz, Lexington, and Hebron, Pa., and New York, N. Y. Shirts. 292,407; Apr. 1. Class 39.
Lepselter & Hoffer, New York, N. Y. Shirts, pajamas, underwear, etc. 292,811; Apr. 1. Class 39.
Les Grands Parfums de France, Inc., New York, N. Y. Perfumes. 287,536; Apr. 1. Class 6.
Les Parfums de Molyneux, Inc., New York, N. Y. Perfumes, lotions, bath powders, etc. 292,452; Apr. 1. Class 6.
Limited Company, formerly The Škoda-Works, Plzeň, Prague-Smichov, Czechoslovakia. Measuring and scientific apparatus. 235,552; Apr. 1. Class 25.
Los Angeles Grain and Feed Company. (See Wheeler, Jay W.)
Louisiana Furs, Inc., Chicago, Ill. Pelts or unfinished furs. 294,537; Apr. 1. Class 1.
Lowe, Joe, Corporation, Brooklyn, N. Y. Doughnuts. 296,282; Apr. 1. Class 46.
Ludwig Baumann & Company, New York, N. Y. Mattresses. 296,254; Apr. 1. Class 32.
Lutton, William H., Company, Jersey City, N. J. Greenhouse benches for soil and potted plants, plant supports, etc. 287,146; Apr. 1. Class 50.
Lynch-Cross Corporation, Milwaukee, Wis. Preparation for driving moths and other insects from clothing. 296,353; Apr. 1. Class 6.
M. & B. Products Co., Philadelphia, Pa. Insecticide. 296,354; Apr. 1. Class 6.
MacAndrews & Forbes Company, Camden, N. J. Medicinal preparation. 296,068; Apr. 1. Class 6.
Madison Woolen Company, Madison, Me. Woolen piece goods. 295,338; Apr. 1. Class 42.
Management Magazines, Inc., Chicago, Ill. Periodical. 294,394–5; Apr. 1. Class 38.
Mannings, Inc., San Francisco, Calif. Coffee. 295,626; Apr. 1. Class 46.
Marko Storage Battery Corporation, Brooklyn, N. Y. Storage batteries. 295,128; Apr. 1. Class 21.
Merco Nordstrom Valve Company, San Francisco, Calif. Lubricating greases. 271,616; Apr. 1. Class 15.
Merkolene Chemical Co., Charleston, W. Va. Ointment. 285,582; Apr. 1. Class 6.
Merriam, David H., doing business as Ye House of John L. Bailey, Fitchburg, Mass. Candy. 294,396; Apr. 1. Class 46.
Miles, Dr., Medical Company, Elkhart, Ind. Medicinal preparation. 296,074; Apr. 1. Class 6.
Milgrim, H., & Bros., Inc., New York, N. Y. Perfumes. 296,131; Apr. 1. Class 6.
Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Shoes and composition soles for shoes. 288,715; Apr. 1. Class 39.
Mogira Products Co. (See Molinelli Giannusa & Rao, Inc.)
Molinelli Giannusa & Rao, Inc., doing business as Mogira Products Co., Brooklyn, N. Y. Canned tuna fish, peas, corn, etc. 292,741; Apr. 1. Class 46.
Monomac Spinning Company, Boston, Mass. Yarns. 295,803; Apr. 1. Class 43.
Montgomery, H. A., Co., Inc., Detroit, Mich. Liquid ink eradicator. 293,061; Apr. 1. Class 6.
Moser, Charles, Company, The, Cincinnati, Ohio. Paint enamels. 283,884; Apr. 1. Class 16.
Muir Laboratories, Grand Rapids, Mich. Laxative tonic. 296,231; Apr. 1. Class 6.
Mulherin, William F., doing business as Excelsior Supply Company, Syracuse, N. Y. Malt syrup. 295,684; Apr. 1. Class 46.
Muncy Textile Company, Muncy, Pa. Wool bed blankets. 295,304; Apr. 1. Class 42.
My Own Company, Indianapolis, Ind. Canned milk. 295,686; Apr. 1. Class 46.
Narragansett Wholesale Grocery Co. (See Grossman, Jacob D.)
Nasco Company. (See National Art Sign Corporation.)
National Art Sign Corporation, doing business as Nasco Company, Minneapolis, Minn. Preparation for the treatment of rheumatism, neuritis, lumbago, etc. 294,680; Apr. 1. Class 6.
National Art Sign Corporation, Minneapolis, Minn. Preparation for the treatment of stomach ills. 294,681; Apr. 1. Class 6.
National Bellas Hess Co. Inc., New York, N. Y. Overalls and work shirts. 295,952; Apr. 1. Class 39.
National Electric Products Corporation, Pittsburgh, Pa. Connectors for armored cables and wires. 295,569; Apr. 1. Class 21.
Newark Wire Cloth Company, Newark, N. J. Wire cloth and metal screening. 294,777; Apr. 1. Class 18.
New Era Treatment Company, The, London, England. Medicinal preparations. 295,384; Apr. 1. Class 6.
Newman, Victor L., doing business as Trisales Company, New York, N. Y. Ottomans, hassocks, cushions, and footstools. 288,443; Apr. 1. Class 32.
New Yorker Hotel Corporation, The, New York, N. Y. Candies and chocolates. 295,187; Apr. 1. Class 46.
Norine Co. (See Ela, Lorenz P.)
Norwich Knitting Company, Norwich, N. Y. Union suits, undershirts, and drawers. 294,589; Apr. 1. Class 39.
Nuccio, Ignazio, doing business as Orazi & Curiazi Olive Oil Company, Cleveland, Ohio. Compounds of olive oil and cottonseed oil. 294,926; Apr. 1. Class 46.
Olean Glass Company, Inc., Olean, N. Y. Glass jars or containers. 295,183; Apr. 1. Class 33.
Orazi & Curiazi Olive Oil Company. (See Nuccio, Ignazio.)
Osetkowski, Andrew A., doing business as Union Products Company, Detroit, Mich. Liniments, castor oil, cough and cold medicines, Epsom salts. 278,803; Apr. 1. Class 6.
O'Sullivan, David L., New York, N. Y. Vaginal sprayer. 294,991; Apr. 1. Class 44.
Owens & Minor Drug Co., Inc., Richmond, Va. Medicinal preparation for the relief of itch, mange, scratches, etc. 295,045; Apr. 1. Class 6.
Pacific Egg Producers Cooperative, Inc., New York, N. Y. Eggs and dressed poultry. 295,188; Apr. 1. Class 46.
Package Paper Company, Holyoke, Mass. Waxed paper. 295,698; Apr. 1. Class 37.
Panhard Oil Corporation, New York, N. Y. Lubricating oils and greases. 295,047; Apr. 1. Class 15.
Peerless Cap Co., Covington, Ky. Tailored caps. 258,282; Apr. 1. Class 39.
Pellegrin, Joseph, New York, N. Y. Shoe laces. 294,888; Apr. 1. Class 40.
Penn Worsted Company, Philadelphia, Pa. Cotton-warp worsted. 295,808; Apr. 1. Class 42.
Pep Boys—Manny, Moe & Jack, The, doing business as Sturdee Storage Battery Co., Philadelphia, Pa. Storage batteries. 286,710; Apr. 1. Class 21.
Permatite Manufacturing Co. Inc., Minneapolis, Minn. Electrical crank-case heaters. 293,639; Apr. 1. Class 21.
Photoscript Company, The, Philadelphia, Pa. Writing paper and mailing and correspondence envelopes. 294,540; Apr. 1. Class 37.
Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Engine mufflers and spare parts. 296,024–5; Apr. 1. Class 28.
Pille Bros., Inc., Denver, Colo. Storage batteries and parts thereof. 295,572; Apr. 1. Class 21.
Poock, O. M., doing business as City Machine & Tool Works, Dayton, Ohio. Lathe and grinding arbors, production machinery and tools, etc. 289,507; Apr. 1. Class 23.
Pryce, John. & Co., Batavia, Java, Dutch East Indies. Skins. 289,128; Apr. 1. Class 1.
Puetz, Peter J., doing business as Joester Company, Fort Wayne, Ind. Permanent-waving preparation. 296,146; Apr. 1. Class 6.
Rath Packing Company, The, Waterloo, Iowa. Lard and smoked picnic hams. 295,237; Apr. 1. Class 46.
Red Ball Stores. (See Cockrell, Barney B.)
Regent Import Corporation, New York, N. Y. Bead-stringing chain and silk cords. 294,442; Apr. 1. Class 28.
Roanoke City Mills, Incorporated, Roanoke, Va. Wheat flour. 296,240; Apr. 1. Class 46.
Rockingham Milling Company, Harrisonburg, Va. Wheat flour. 295,136; Apr. 1. Class 46.
Rorer, William H., Inc., Philadelphia, Pa. Ointment. 292,752; Apr. 1. Class 6.
Roth-Büchner Aktiengesellschaft, Berlin-Tempelhof, Germany. Cutlery ware. 271,825; Apr. 1. Class 23.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Baking powder. 277,085–6; Apr. 1. Class 6.
S. M. Supplies Co., Boston, Mass. Brushes. 295,894; Apr. 1. Class 29.
Sal Laboratories, Brooklyn, N. Y. Preparation used in the treatment of stomach disorders, etc. 296,448; Apr. 1. Class 6.
San Joaquin Cotton Oil Company, Los Angeles, Calif. Cattle feed. 295,538; Apr. 1. Class 46.
Saxone Shoe Co. Limited, Kilmarnock, Scotland. Boots and shoes, soles. 292,051; Apr. 1. Class 39.
Schram, Frank X., doing business as F. X. Schram Laboratories, Chicago, Ill. Medicinal preparations. 279,887; Apr. 1. Class 6.
Schweiger, N., Hat Co., New York, N. Y. Hats, hat crowns, and scarfs. 295,496; Apr. 1. Class 39.
Seed Filter & Manufacturing Co., Inc., New York, N. Y. Paint scrapers. 294,927; Apr. 1. Class 23.
Seven Arts Publishing Co., New York, N. Y. Syndicated topical columns or articles published. 293,795; Apr. 1. Class 38.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Shavelson, Abraham N., doing business as Chex Chemical Company, Guttenberg Township, Hudson County, N. J. Tablets, a medicinal preparation. 293,559; Apr. 1. Class 6.
Sheepshead Malt Products Co. (See Weiss, Morris.)
Singer, Louis, doing business as Jubilee Perfumer, New York, N. Y. Cleansing cream, sachet powder, paste rouge, etc. 295,392; Apr. 1. Class 6.
Smith, James F., Kansas City, Mo. Monthly periodical. 291,361; Apr. 1. Class 38.
Societe a Responsabilite Limitee Rodier, Paris, France. Piece goods. 295,958; Apr. 1. Class 42.
Sonneborn Brothers, Inc., New York, N. Y. Boys' and young men's coats, vests, trousers, and overcoats. 296,083–4; Apr. 1. Class 39.
Southwest Fire Equipment Corporation, San Antonio, Tex. Fire-extinguishing bombs. 294,278; Apr. 1. Class 23.
Spangler Inc., Chicago, Ill. Beads and jewelry. 293,761; Apr. 1. Class 28.
Spruance, Gilbert, Company, The, Philadelphia, Pa. Wax for polishing floors, etc. 295,156; Apr. 1. Class 16.
Stanco Incorporated, New York, N. Y. Sprayers, pumps, squirt guns, etc. 290,624; Apr. 1. Class 23.
Sturdee Storage Battery Co. (See Pep Boys—Manny, Moe & Jack, The.)
Suchman & McRoberts, Inc., doing business as Bay View Creamery, Jersey City, N. J. Dairy products. 294,493; Apr. 1. Class 46.
Superior Cabinet Corporation, New York, N. Y. Radio receiving sets. 291,845; Apr. 1. Class 21.
Tacoma Brewing Co., San Francisco, Calif. Cereal malt beverages containing less than one-half of one per cent alcohol. 257,904; Apr. 1. Class 48.
Tacoma Brewing Co., San Francisco, Calif. Cereal malt syrups. 259,471; Apr. 1. Class 46.
Tannenbaum Brothers, Chicago, Ill. Malted milk. 278,857; Apr. 1. Class 46.
Termiteol Corporation, Inc., New Orleans, La. Preparation used as preventative against all forms of wood-destroying organisms. 295,647; Apr. 1. Class 6.
Thompson, Caleb, St. Louis, Mo. Tonic. 290,531; Apr. 1. Class 6.
Thomson Wood Finishing Co., Philadelphia, Pa. Paints, paint enamels, paste fillers, etc. 281,710–11; Apr. 1. Class 16.
Townsend, W. C., & Company, Zanesville, Ohio. Stone, including granite. 295,141; Apr. 1. Class 12.
Trio Specialty Company, Inc., New York, N. Y. Canvas laced stockings for therapeutic purposes. 295,401; Apr. 1. Class 44.
Trisales Company. (See Newman, Victor L.)
Tulsa Overall & Manufacturing Company, Tulsa, Okla. Overalls, jumpers, pants, etc. 289,854; Apr. 1. Class 39.
USL Battery Corporation, Niagara Falls, N. Y. Storage batteries. 295,584–5; Apr. 1. Class 21.
Ultra-Violet Generator Corporation, Chicago, Ill. Food tablets. 277,327; Apr. 1. Class 46.
Union Products Company. (See Osetkowski, Andrew A.)
Universal Gear Corporation, Chicago, Ill. Mechanical speed reducers. 294,448; Apr. 1. Class 23.
Viclaire, Inc., New York, N. Y. Medicinal preparation. 295,310; Apr. 1. Class 6.
Wallace, George, Jacksonville, Fla. Maltless beverages. 288,445; Apr. 1. Class 45.
Walsh, Christy, New York, N. Y. Heading for a series of articles. 295,143; Apr. 1. Class 38.
Washington Manufacturing Company, Nashville, Tenn. Cotton piece goods for making shirts. 295,408; Apr. 1. Class 42.
Washington Manufacturing Company, Nashville, Tenn. Shirts. 295,409; Apr. 1. Class 39.
Weiss, Morris, doing business as Sheepshead Malt Products Co., Brooklyn, N. Y. Malt syrup for food purposes. 295,649; Apr. 1. Class 46.
Western Electric Company, Incorporated, New York, N. Y. Sound-picture apparatus and parts thereof. 296,090; Apr. 1. Class 26.
Wheeler, Jay W., doing business as Los Angeles Grain and Feed Company, Los Angeles, Calif. Poultry feed. 295,412; Apr. 1. Class 46.
Williams, Cora U., Los Angeles, Calif. Brassières. 295,650; Apr. 1. Class 39.
Wilson, McGown & Tenser, Inc., New York, N. Y. Ladies' underwear. 286,847; Apr. 1. Class 39.
Windram Manufacturing Co., Boston, Mass. Waterproof fabrics. 295,286; Apr. 1. Class 50.
Wood, Jesse L., Jackson, Mich. Clothes and drying racks. 295,651; Apr. 1. Class 24.
Wright Aeronautical Corporation, Paterson, N. J. Internal-combustion engines. 294,605; Apr. 1. Class 23.
Wright, E. T., & Company, Inc., Rockland, Mass. Boots and shoes. 295,578; Apr. 1. Class 39.
Wright, S. B., doing business as Wright Products Co., Chicago, Ill. Heel pad and hose protector. 296,095; Apr. 1. Class 39.
Wright, Wm. E., & Sons Co., Orange, N. J. Ribbons. 296,041; Apr. 1. Class 42.
Ye House of John L. Bailey. (See Merriam, David H.)
Zapon Company, The, Wilmington, Del. Pyroxlin or otherwise coated fabrics. 294,939–41; Apr. 1. Class 50.
Zimmerman Bros., Lock Haven, Pa. Malt syrup. 295,314; Apr. 1. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Stucco and plaster. United States Gypsum Company. 269,253; Apr. 1; Serial No. 292,561; published Jan. 21, 1930.

CLASS 2

Bags, Paper. George W. Simmons Corporation. 269,257–8; Apr. 1; Serial Nos. 292,372–3; published Jan. 14, 1930.
Containers, Shipping. Iowa Fiber Box Company. 269,305; Apr. 1; Serial No. 293,100; published Jan. 21, 1930.
Cups and containers therefor, Paper. Pac-Kups Incorporated. 269,196; Apr. 1; Serial No. 289,864; published Jan. 21, 1930.
Plugs for paper rolls. K. F. Lawson. 269,267; Apr. 1; Serial No. 291,836; published Jan. 21, 1930.
Sacks, Pick. Little Rock Tent & Awning Co. 269,200; Apr. 1; Serial No. 289,897; published Jan. 14, 1930.

CLASS 4

Washing powder, wall-paper cleaner, soaps, etc. Red & White Corp'n. 269,386; Apr. 1.

CLASS 6

Antimonium, argentum, arsenicum, etc. British Colloids Ltd. 269,269; Apr. 1; Serial No. 276,404; published Oct. 8, 1929.
Bath powder. M. A. Brin. 269,280; Apr. 1; Serial No. 286,020; published Nov. 12, 1929.
Bath preparations. C. M. Cole. 269,272; Apr. 1; Serial No. 275,500; published Jan. 7, 1930.
Beeswax. W. H. Bowdlear Company. 269,319; Apr. 1; Serial No. 292,890; published Jan. 7, 1930.
Chemicals. Feedwaters Incorporated. 269,303; Apr. 1; Serial No. 293,215; published Jan. 14, 1930.
Cleansing and revitalizing compound. Illinois Ink Corporation. 269,279; Apr. 1; Serial No. 287,580; published Jan. 14, 1930.
Cod-liver oil incorporated in a jelly. Clo-Jell Incorporated. 269,255; Apr. 1; Serial No. 292,521; published Jan. 14, 1930.
Compound for the treatment of burns, sunburn, pimples, etc. Lancaster Inc. 269,327; Apr. 1; Serial No. 289,195; published Oct. 22, 1929.
Cream, Face. American Lanolin Corporation. 269,320; Apr. 1; Serial No. 292,384; published Jan. 14, 1930.
Cream, talcum powder, magnesia, etc., Dental. William A. Webster Company. 269,263; Apr. 1; Serial No. 292,139; published Jan. 14, 1930.
Creams, face powders, skin lubricant, etc., Liquid toilet. Powder Puff Shop. 269,328–9; Apr. 1; Serial Nos. 288,664–5; published Jan. 7, 1930.
Creams, Fat-reducing. J. W. Calvert. 269,275; Apr. 1; Serial No. 272,748; published Feb. 5, 1929.
Disinfectants, fly spray, textile softener, etc. Laurel Soap Manufacturing Co. 269,207; Apr. 1; Serial No. 291,279; published Jan. 14, 1930.
Dye, patent-leather finish, and edge, shank, and heel ink. United Shoe Machinery Corporation. 269,331; Apr. 1; Serial No. 286,398; published Jan. 7, 1930.
Dyes, Synthetic. S. M. Tootal. 269,316; Apr. 1; Serial No. 292,689; published Jan. 14, 1930.
Exterminator, poultry tonic, roup treatment, etc., Fly. Vitex Company. 269,224; Apr. 1; Serial No. 283,523; published Jan. 7, 1930.
Germicide and antiseptic. E. C. Glitzke. 269,314; Apr. 1; Serial No. 292,989; published Jan. 7, 1930.
Inhalant. Hart Chemical Co. 269,201; Apr. 1; Serial No. 291,766; published Jan. 14, 1930.
Laxative. C. R. Farmer. 269,326; Apr. 1; Serial No. 290,400; published Jan. 7, 1930.
Laxative. First Texas Chemical Mfg. Co. 269,332; Apr. 1; Serial No. 285,687; published Jan. 7, 1930.
Lotion, Aftershaving. Florian, Inc. 269,325; Apr. 1; Serial No. 290,827; published Jan. 7, 1930.
Medical preparation. Wm. S. Merrell Company. 269,299; Apr. 1; Serial No. 293,000; published Jan. 7, 1930.
Medicated tablets. Currier's Tablets Incorporated. 269,231; Apr. 1; Serial No. 280,894; published Nov. 12, 1929.
Medicinal preparation. W. M. K. Bender. 269,324; Apr. 1; Serial No. 291,438; published Jan. 7, 1930.

Medicinal preparation. MacAndrews & Forbes Company. 269,210; Apr. 1; Serial No. 290,580; published Jan. 14, 1930.
Medicinal preparation. Nurito Co. 269,238; Apr. 1; Serial No. 277,077; published Mar. 5, 1929.
Medicine. Mrs. E. Henderson. 269,229; Apr. 1; Serial No. 281,663; published Jan. 7, 1930.
Medicine. Lamb & Hill. 269,266; Apr. 1; Serial No. 291,985; published Jan. 14, 1930.
Medicine. Smith, Kline & French Laboratories. 269,304; Apr. 1; Serial No. 293,118; published Jan. 14, 1930.
Medicine. Waterbury Chemical Company. 269,301–2; Apr. 1; Serial Nos. 293,298–9; published Jan. 14, 1930.
Medicine. F. N. Wright. 269,296; Apr. 1; Serial No. 293,018; published Jan. 7, 1930.
Mentholated alcohol, wine spirit, salt spirit or salt brandy, recommended as a liniment, as a mouth wash, etc. Diana Ipari es Kereskedelmi Reszvenytarsasag. 269,318; Apr. 1; Serial No. 260,721; published Jan. 14, 1930.
Ochers, pigments for general use, Raw. Sté des Ocres du Midi. 269,223; Apr. 1; Serial No. 283,763; published Dec. 24, 1929.
Oil, gymnasium itch ointment, antiseptic dressing, etc., Athletic rubbing. Bullock Brothers Athletic Supply Company. 269,378; Apr. 1.
Oil, Processed. Neutrasol Products Corporation. 269,294; Apr. 1; Serial No. 293,064; published Jan. 7, 1930.
Oils, flower essences, colors for perfumes, etc., Essential. Dodge & Olcott Company. 269,197; Apr. 1; Serial No. 288,786; published Jan. 14, 1930.
Pectoral compound and an anodyne. Lanman & Kemp, Inc. 269,254; Apr. 1; Serial No. 292,539; published Jan. 14, 1930.
Perfume. Marcel Guerlain, Inc. 269,371; Apr. 1.
Powder, Face. Chas. A. Stevens & Bros. 269,382; Apr. 1.
Powder, Tooth. Pycopé Incorporated. 269,334; Apr. 1; Serial No. 250,039; published Jan. 14, 1930.
Preparation for contagious abortion in cattle. O. S. Shasky. 269,222; Apr. 1; Serial No. 284,085; published Jan. 7, 1930.
Preparation for exterminating insects. American Oil & Disinfectant Corporation. 269,321; Apr. 1; Serial No. 292,312; published Jan. 14, 1930.
Preparation for professional use in the relief of pain and control of fever. Kennesaw Mountain Chemical Company. 269,322; Apr. 1; Serial No. 292,171; published Jan. 14, 1930.
Preparation for the treatment of affections of the venal systems, etc. Z. Hardy. 269,297–8; Apr. 1; Serial Nos. 293,369–70; published Jan. 14, 1930.
Preparation for the treatment of ringworm. Sven Medicinal Incorporation. 269,315; Apr. 1; Serial No. 292,759; published Jan. 7, 1930.
Preparation for treating rheumatism, arthritis, etc. Todd-Werner Co. 269,195; Apr. 1; Serial No. 288,491; published Jan. 14, 1930.
Preparation for treatment of boils. J. C. Conkey. 269,232; Apr. 1; Serial No. 280,542; published May 14, 1929.
Preparation for use as a bug and vermin exterminator, insect exterminator, etc. Cleanwell Products Corp. 269,227; Apr. 1; Serial No. 282,023; published Jan. 7, 1930.
Preparation to be taken internally for use in the relief and treatment of indigestion, biliousness, etc. Kennesaw Mountain Chemical Company. 269,323; Apr. 1; Serial No. 292,170; published Jan. 14, 1930.
Preparation to be used as a hair tonic. Solon Palmer. 269,300; Apr. 1; Serial No. 293,341; published Jan. 14, 1930.
Preparations, alterative and medicinal compound. J. A. I. Parker. 269,202; Apr. 1; Serial No. 291,735; published Jan. 14, 1930.
Preparations of an antiseptic nature, germicides and deodorants. R. Lewis. 269,293; Apr. 1; Serial No. 293,143; published Jan. 14, 1930.
Product for preserving and improving wines and other beverages. A. C. Appert. 34,191; renewed Feb. 18, 1930.
Salve. M. F. Schlesinger. 78,738; renewed July 5, 1930.
Salve hair grower, Compound. N. Holmes. 269,318; Apr. 1; Serial No. 292,629; published Jan. 14, 1930.
Tablets which produce a refreshing and antiseptic solution. Dr. Pierre Chemical Co. 269,330; Apr. 1; Serial No. 287,004; published Jan. 14, 1930.
Tonic and shampoo, astringents, and cold cream. C. C. Fenton. 269,273; Apr. 1; Serial No. 275,435; published Jan. 14, 1930.
Tonic having a wine base, General medicinal. Cresta Blanca Company. 269,374; Apr. 1.
Tonic, Shampoo and hair. C. H. Ginter. 269,295; Apr. 1; Serial No. 293,042; published Jan. 7, 1930.
Tonics, toilet waters, massage lotions, etc., Hair. R. M. Froehlich. 269,196; Apr. 1; Serial No. 288,519; published Jan. 14, 1930.
Vitaminous dietary supplement. E. R. Squibb & Sons. 269,317; Apr. 1; Serial No. 292,687; published Dec. 31, 1929.

CLASS 7

Cord and twines. A. F. Reid. 34,328; renewed Mar. 20, 1930.
Cords and thread. A. F. Reid. 34,329; renewed Mar. 20, 1930.
Twines, ropes, and cords. Portland Cordage Company. 269,385; Apr. 1.

CLASS 12

Asphalt. Suburban Construction Company. 269,220–1; Apr. 1; Serial Nos. 284,374–5; published Oct. 15, 1929.
Ceiling, wall, and partition structure. F. M. Vensie. 269,375; Apr. 1.
Douglas-fir plywood. Douglas Fir Plywood Institute. 269,378; Apr. 1.
Lime. Gager Lime Manufacturing Co. 269,212; Apr. 1; Serial No. 290,508; published Jan. 21, 1930.
Lime in powdered form, Slacked. Gager Lime Manufacturing Co. 269,211; Apr. 1; Serial No. 290,509; published Jan. 21, 1930.
Lining and insulating building walls, Pocket-forming elements for. American Insulating Co. 269,200; Apr. 1; Serial No. 291,376; published Jan. 21, 1930.
Shingles, Wood. St. Paul and Tacoma Lumber Co. 269,384; Apr. 1.
Steel supporting columns, metal window for hog houses, etc. James Manufacturing Company. 269,204; Apr. 1; Serial No. 291,667; published Jan. 21, 1930.

CLASS 13

Boot protectors of metal. John Giles & Sons, Limited. 70,571; renewed Feb. 1, 1930.
Device for producing and dispensing lather. Sanitary Latherole Co. Inc. 269,265; Apr. 1; Serial No. 292,050; published Jan. 21, 1930.
Lavatories, drinking fountains, towel holders, etc. Thomas Maddock's Sons Co. 269,216; Apr. 1; Serial No. 224,921; published Feb. 23, 1926.
Metal curtain rods, sockets, etc. H. L. Judd Company. 269,264; Apr. 1; Serial No. 292,112; published Jan. 14, 1930.

CLASS 17

Cigars. Compañía Tabacalera Nacional S. A. 269,240; Apr. 1; Serial No. 290,823; published Jan. 21, 1930.
Cigars. Los Ramos Cigar Company. 269,310; Apr. 1; Serial No. 293,186; published Jan. 21, 1930.
Cigars. National Grocer Company. 269,282; Apr. 1; Serial No. 292,281; published Jan. 21, 1930.

CLASS 19

Aeroplanes. Butler Aircraft Corporation. 269,261; Apr. 1; Serial No. 292,248; published Jan. 21, 1930.
Bicycles. Montgomery Ward & Co. Incorporated. 269,208; Apr. 1; Serial No. 291,132; published Jan. 21, 1930.
Coaches, buses, and trucks, Motor. C. H. Will Motors Corporation. 269,226; Apr. 1; Serial No. 282,082; published Jan. 14, 1930.
Filler caps of automobile radiators. Chase Brass & Copper Co. Incorporated. 269,276; Apr. 1; Serial No. 272,389; published Jan. 15, 1929.
Motor boats. Cute-Craft Company. 269,256; Apr. 1; Serial No. 292,440; published Jan. 14, 1930.
Pedal couplings for bicycles. Stevens Walden-Worcester, Inc. 269,194; Apr. 1; Serial No. 288,288; published Jan. 14, 1930.
Perambulators, baby carriages, and cars, etc. Tan Sad, Limited. 269,270; Apr. 1; Serial No. 275,860; published Jan. 14, 1930.
Trucks, Barrel. Southwest Pump Company. 269,209; Apr. 1; Serial No. 290,980; published Jan. 14, 1930.

CLASS 22

Bowling game apparatus, Automatic. R. L. Lloyd. 269,352; Apr. 1; Serial No. 288,305; published Jan. 14, 1930.
Cards, Playing. T. H. McCoy. 269,245; Apr. 1; Serial No. 292,742; published Jan. 14, 1930.
Cork grips for golf clubs and the like. P. J. Deety & Company Limited. 269,241; Apr. 1; Serial No. 290,210; published Jan. 7, 1930.
Golf balls. Carson Pirie Scott & Co. 269,217; Apr. 1; Serial No. 208,637; published Jan. 14, 1930.
Sleds, Coaster. Kalamazoo Sled Company. 269,233; Apr. 1; Serial No. 280,399; published Sept. 3, 1929.
Spinners. Enterprise Manufacturing Company. 269,219; Apr. 1; Serial No. 284,980; published Jan. 14, 1930.
Toy aeroplane construction sets. Sears, Roebuck and Co. 269,290; Apr. 1; Serial No. 291,842; published Jan. 7, 1930.
Toy guns. Grey Iron Casting Company. 269,242; Apr. 1; Serial No. 292,990; published Jan. 14, 1930.

CLASS 23

Cooking machines, Automatic. Automatic Cooking Machine Company. 269,291; Apr. 1; Serial No. 291,078; published Dec. 24, 1929.
Cranes, ditchers, railroad shovels, and grading devices. Byers Machine Company. 269,214; Apr. 1; Serial No. 247,355; published Jan. 21, 1930.
Hoist, Automobile. Globe Machinery & Supply Company. 269,292; Apr. 1; Serial No. 291,002; published Jan. 21, 1930.
Razors, and parts thereof, Combination and apparatus for honing and stropping. Rolls Razor (1927) Limited. 269,370; Apr. 1.

CLASS 24

Ironing-machine rolls, washtubs, wringer rolls, ironing-machine pads, etc. Apex Electrical Manufacturing Company. 269,228; Apr. 1; Serial No. 281,881; published Jan. 21, 1930.

Washboards. National Washboard Company. 269,248–50; Apr. 1; Serial Nos. 292,888–90; published Jan. 21, 1930.
Washing machines and parts thereof, Laundry. Voss Bros. Mfg. Co. 269,235; Apr. 1; Serial No. 279,580; published Jan. 14, 1930.
Washing machines, Laundry. Altorfer Bros. Company. 269,262; Apr. 1; Serial No. 292,192; published Jan. 14, 1930.

CLASS 26

Accounting machines, adding typewriters, etc. Ellis Adding-Typewriter Company. 269,372; Apr. 1.
Rulers, Desk. Westcott Rule Company. 269,376; Apr. 1.

CLASS 27

Clocks. Revere Clock Company. 269,308; Apr. 1; Serial No. 293,348; published Jan. 21, 1930.
Clocks, Electric. Hansen Manufacturing Company. 269,307; Apr. 1; Serial No. 293,427; published Jan. 21, 1930.

CLASS 28

Jewelry. D. L. Auld Company. 76,786; renewed Feb. 15, 1930.

CLASS 29

Brooms. National Grocer Company. 269,284; Apr. 1; Serial No. 292,277; published Jan. 21, 1930.
Powder puffs and absorbent powder puffs. Daggett & Ramsdell. 269,243; Apr. 1; Serial No. 292,857; published Jan. 21, 1930.
Powder puffs and absorbent powder puffs. Daggett & Ramsdell. 269,244; Apr. 1; Serial No. 292,852; published Jan. 21, 1930.

CLASS 31

Refrigerating apparatus and refrigerators. Crosley Radio Corporation. 269,274; Apr. 1; Serial No. 275,329; published Jan. 14, 1930.
Refrigerators and refrigeration apparatus. Perfection Stove Company. 269,355; Apr. 1; Serial No. 292,893; published Jan. 14, 1930.

CLASS 33

Bottles, jars, jugs, etc. Owens-Illinois Glass Company. 269,225; Apr. 1; Serial No. 283,344; published Jan. 7, 1930.
Glassware, Pressed. A. H. Heisey & Co. 75,897; renewed Nov. 23, 1929.

CLASS 34

Blowers for use with warm air furnaces and for ventilating purposes. Lakeside Company. 269,260; Apr. 1; Serial No. 292,361; published Jan. 14, 1930.
Furnaces, heating systems, and parts thereof. P. H. Ma Girl Foundry & Furnace Works. 269,259; Apr. 1; Serial No. 292,366; published Jan. 14, 1930.
Heating systems, Fuel. Williams OH-O-Matic Heating Corporation. 269,277; Apr. 1; Serial No. 272,374; published Jan. 21, 1930.
Heating units, air heaters, stokers, etc. B. F. Sturtevant Company. 269,199; Apr. 1; Serial No. 289,767; published Jan. 21, 1930.
Ventilators and fans, Electrically-operated. Electrovent Corporation. 269,218; Apr. 1; Serial No. 289,921; published Jan. 14, 1930.
Ventilators, lamp standards, etc. Cincinnati Victor Company. 269,278; Apr. 1; Serial No. 288,222; published Jan. 21, 1930.

CLASS 35

Hose, belting, and packing. Hewitt-Gutta Percha Rubber Corporation. 269,381; Apr. 1.

CLASS 38

Magazine. L. M. Hodges. 77,148; renewed Mar. 15, 1930.
Periodical. Magazine Publishers, Inc. 269,234; Apr. 1; Serial No. 279,900; published Apr. 9, 1929.

CLASS 39

Coats, Women's. Abraham & Straus, Inc. 269,356; Apr. 1; Serial No. 292,859; published Jan. 14, 1930.
Drawers or running pants, Men's athletic. Phillips-Jones Corporation. 269,361; Apr. 1; Serial No. 292,459; published Jan. 14, 1930.
Dresses, coats, hats, etc. I. K. Gross. 269,312; Apr. 1; Serial No. 293,044; published Jan. 14, 1930.
Hosiery. Gotham Silk Hosiery Company. 269,362; Apr. 1; Serial No. 292,448; published Jan. 14, 1930.
Hosiery. Gotham Silk Hosiery Company. 269,363; Apr. 1; Serial No. 292,440; published Jan. 14, 1930.
Hosiery. S. Handal & Bros. 269,341; Apr. 1; Serial No. 291,615; published Jan. 14, 1930.
Hosiery. Parks Hos'ery Mills, Inc. 269,359; Apr. 1; Serial No. 292,594; published Jan. 14, 1930.
Hosiery, underwear, lingerie, etc. Millers, Inc. 269,358; Apr. 1; Serial No. 292,817; published Jan. 14, 1930.
Hosiery, Women's. J. L. Hudson Company. 269,360; Apr. 1; Serial No. 292,580; published Jan. 14, 1930.
Overalls and play suits, Children's. Worthy Manufacturing Company. 269,246; Apr. 1; Serial No. 288,259; published Jan. 14, 1930.
Pajamas. Chock-Horowitz Company. 269,367; Apr. 1; Serial No. 292,251; published Jan. 14, 1930.
Pajamas, Ladies'. Ogden-Utah Knitting Company. 269,336; Apr. 1; Serial No. 255,923; published Dec. 13, 1927.
Shirts. Lebanon Shirt Company. 269,365; Apr. 1; Serial No. 292,406; published Jan. 14, 1930.
Stockings. Arch Preserver Shoe Shop, Inc. 269,333; Apr. 1; Serial No. 292,780; published Jan. 14, 1930.
Suits and overalls, Children's play. Pool Manufacturing Company. 269,366; Apr. 1; Serial No. 292,335; published Jan. 14, 1930.
Suits, Bathing. Marts Knitting Co. 269,343; Apr. 1; Serial No. 290,758; published Jan. 14, 1930.
Suits, coats, pants, etc. B. Kirshbaum & Company. 269,237; Apr. 1; Serial No. 277,170; published Jan. 14, 1930.
Ties and cravats. W. T. Grant Company. 269,311; Apr. 1; Serial No. 293,098; published Jan. 14, 1930.
Wearing apparel, Outer. R. Lowenbaum Mfg. Co. 269,357; Apr. 1; Serial No. 292,882; published Jan. 14, 1930.

CLASS 42

Blankets, Textile. Peerless Plush Manufacturing Company. 269,383; Apr. 1.
Hair nets. National Gary Corporation. 269,369; Apr. 1.

CLASS 44

Dental plates. Eaton Laboratories, Inc. 269,377; Apr. 1.
Foot-corrective appliances. Scholl Manufacturing Company. 269,218; Apr. 1; Serial No. 206,092; published Feb. 3, 1925.
Hair driers and hair-drying apparatus, Electrical. Charles Arnao Company. 269,289; Apr. 1; Serial No. 291,862; published Jan. 14, 1930.
Napkins, Sanitary. San-Nap-Pak Mfg. Co. 269,240; Apr. 1; Serial No. 292,403; published Jan. 14, 1930.
Therapeutic devices. M. Beymer. 269,247; Apr. 1; Serial No. 292,488; published Jan. 7, 1930.
Tongs, forceps, pincers, etc. Actien-Gesellschaft für Feinmechanik, vormals Jetter & Scheerer. 269,358; Apr. 1; Serial No. 287,603; published Jan. 14, 1930.
Wristbands, supports, and developers. Ohio Truss Company. 269,215; Apr. 1; Serial No. 236,952; published Jan. 14, 1930.

CLASS 45

Beverages, Maltless. A. Israel. 269,379; Apr. 1.
Juice, Grape. National Grocer Company. 269,283; Apr. 1; Serial No. 292,280; published Jan. 21, 1930.

CLASS 46

Almonds, babassu nuts, butternuts, etc. Continental Nut Company. 269,337; Apr. 1; Serial No. 267,243; published Jan. 14, 1930.
Banana powder. Banana Food Products Corporation. 269,338; Apr. 1; Serial No. 292,196; published Jan. 14, 1930.
Candy. Chandler & Rudd Company. 269,309; Apr. 1; Serial No. 293,264; published Jan. 21, 1930.
Canned fruit and vegetables. Edgett-Burnham Company. 269,280; Apr. 1; Serial No. 281,205; published Jan. 21, 1930.
Canned fruits. Sutter Packing Company. 269,239; Apr. 1; Serial No. 277,185; published Mar. 12, 1929.
Canned fruits. Sutter Packing Company. 269,286; Apr. 1; Serial No. 292,060; published Jan. 21, 1930.
Canned fruits, vegetables, fish, etc. Smart & Final Co. 269,268; Apr. 1; Serial No. 287,097; published Jan. 14, 1930.
Canned vegetables. Burnham & Morrill Company. 269,350; Apr. 1; Serial No. 289,179; published Jan. 21, 1930.
Chocolate. H. O. Wilbur & Sons. 72,813; renewed Feb. 28, 1929.
Coffee and chicory, Compound of. W. T. Nichols & Company. 269,285; Apr. 1; Serial No. 292,116; published Jan. 21, 1930.
Coffee, spices, and flavoring extracts. R. T. French Company. 78,667; renewed June 28, 1930.
Dressing, Sandwich. Linder and Linder. 269,271; Apr. 1; Serial No. 275,737; published Jan. 14, 1930.
Extracts and sugars, Malt. Malt-Diastase Company. 269,344; Apr. 1; Serial No. 290,472; published Jan. 14, 1930.
Extracts, Food-flavoring. Pilsner Importing Co. 269,236; Apr. 1; Serial No. 278,056; published Mar. 19, 1929.
Fish oil. Swift and Company. 269,347; Apr. 1; Serial No. 288,096; published Jan. 14, 1930.
Flour, rye flour, oatmeal, etc., Wheat. Theodor Schlüter Sen. 269,348; Apr. 1; Serial No. 287,205; published Jan. 14, 1930.
Food product. Food, Packaging Co. 269,363; Apr. 1; Serial No. 292,446; published Jan. 14, 1930.
Food products. Grocers & Producers Co. 269,380; Apr. 1.
Fruits, Fresh citrus. Babson Park Citrus Growers Association. 269,349; Apr. 1; Serial No. 290,052; published Jan. 21, 1930.
Fruits, Fresh deciduous. Hopland Fruit Growers' Association. 269,306; Apr. 1; Serial No. 293,429; published Jan. 21, 1930.
Gelatin. Swift and Company. 269,339; Apr. 1; Serial No. 292,080; published Jan. 14, 1930.
Grapefruit, Fresh. Yuma Mesa Grapefruit Company. 269,351; Apr. 1; Serial No. 288,943; published Jan. 21, 1930.

Gum, Chewing. United Gum Corporation. 269,354; Apr. 1; Serial No. 286,804; published Jan. 21, 1930.
Ham, bacon, dried beef, and lard. William Moland's Sons. 77,821; renewed May 10, 1930.
Mayonnaise. Henry Paper Mayonnaise Co. 269,364; Apr. 1; Serial No. 292,415; published Jan. 14, 1930.
Milk and cheese. Nestlé's Food Company. 269,340; Apr. 1; Serial No. 291,930; published Jan. 14, 1930.
Mushrooms, Fresh. Yoder Brothers. 269,281; Apr. 1; Serial No. 292,308; published Jan. 21, 1930.
Oil, Cottonseed. Aspegren & Co. 77,414; renewed Apr. 5, 1930.
Peanuts, Salted. Miller Peanut Products Company. 269,288; Apr. 1; Serial No. 291,925; published Jan. 21, 1930.
Pop corn, Candied. Rueckheim Bros. & Eckstein. 79,010; renewed July 26, 1930.
Poultry and eggs, Dressed. H. M. Noack & Sons. 79,146; renewed Aug. 9, 1930.
Sugar, table syrups, molasses, etc. Kosher Sugar and Syrup Co. 269,335; Apr. 1; Serial No. 256,630; published Jan. 14, 1930.
Syrup, Malt. Bachrach-Feld Co. 269,345; Apr. 1; Serial No. 289,492; published Jan. 14, 1930.
Syrup, Malt. E. M. Lyons. 269,342; Apr. 1; Serial No. 291,010; published Jan. 14, 1930.
Vegetables, Fresh. Sheehy & Cumming. 269,287; Apr. 1; Serial No. 292,054; published Jan. 21, 1930.

CLASS 49

Whiskies, Scotch. John Walker & Sons, Limited. 78,286; renewed May 31, 1930.

CLASS 50

Fabrics, Cord and square woven. Fisk Rubber Company. 269,251–2; Apr. 1; Serial Nos. 292,624–5; published Jan. 21, 1930.
Name plates, waterers, feeders, poultry nests, etc. James Manufacturing Company. 269,203; Apr. 1; Serial No. 291,671; published Jan. 21, 1930.
Pads, Rug cushion. Warren-Allen Carpet Company. 269,205; Apr. 1; Serial No. 291,597; published Jan. 21, 1930.

ALPHABETICAL LIST OF LABELS

Beech-Nut Plain Noodles. For Noodles. Beech-Nut Packing Company. 37,294; Apr. 1.
Carlson's Swedish Rye Bread. For Rye Bread. A. W. Godfrey. 37,301; Apr. 1.
D & C—For Making Lemon Pie. For Ingredients for Making Lemon Pie. My-T-Fine Corporation. 37,305; Apr. 1.
Digestine. For Medicine. J. Jones. 37,304; Apr. 1.
Eastridge's Butterfly Perfume. For Perfume. J. R. Eastridge. 37,297; Apr. 1.
Expello Handy Bags for Chests, Trunks, Packages, Etc. For Moth and Worm Killer. Expello Corporation. 37,298; Apr. 1.
Expello Twelve Handy Bags. For Moth and Worm Killer. Expello Corporation. 37,299; Apr. 1.
Gabriel's Famous Healing Dusting Powder. For Healing Dusting Powder. J. Gabriel. 37,300; Apr. 1.
German Malt Syrup. For Malt Syrup. N. Oines. 37,306; Apr. 1.
Holtzman's Pretz-Sticks. For Pretzels. Pretz-Sticks Baking Company. 37,307; Apr. 1.
Ideal Brand Hearts of Gold Cantaloupes. For Cantaloupes. Huston, Culver & Co. Incorporated. 37,303; Apr. 1.
Lima Bean Wafers. For Lima-Bean Wafers. W. C. Baker. 37,293; Apr. 1.
Narcissus Bulbs. For Narcissus Bulbs. S. Horner, jr. 37,302; Apr. 1.
No. 51 Service Roll. For Roll Toilet Paper. Scott Paper Company. 37,309; pr. 1.
Rino. For Orange Salt. Rino Laboratories Co. 37,308; Apr. 1.
Super Wonder Glue Co. For Glue. Super Wonder Glue Co. 37,310; Apr. 1.
T-Ang for Children. For Cough Remedy. Chanbro Pharmacal Co. 37,295; Apr. 1.
Thorobread. For Dog Food. Thorobread Company. 37,311; Apr. 1.
Vienna Brand. For Ginger Ale. Double Eagle Bottling Company. 37,309; Apr. 1.

ALPHABETICAL LIST OF PRINTS

Keystone Chicks. For Chicks. D. W. Goodling. 12,465; Apr. 1.
Korkers. For Repair Device For Hosiery. Korker Company. 12,467; Apr. 1.
Oysters En Brochette . . . With Heins Tomato Ketchup. For Tomato Ketchup. H. J. Heins Company. 12,466; Apr. 1.
Wales Trimpak. For Cigarettes. Wales Novelties Corporation. 12,468; Apr. 1.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A. G. Brown Boveri & Cie. (See Walty, Werner, assignor.)
Abeles, Ernest A., New York, N. Y. Solvent recovery apparatus for rubber-spreading machines. 1,752,875; Apr. 1.
Abramson, John H., assignor to Greenlee Bros. & Co., Rockford, Ill. Recessing tool. 1,753,103; Apr. 1.
Ackerman, Ernest W., and G. C. Nicholson, assignors to The Hydro-Check Corporation, Monroe, Mich. Hydraulic rebound device. 1,752,409; Apr. 1.
Acme Steel Company. (See MacChesney, C. M., and Norton, assignors.)
Adam, Frederick B., St. Louis, Mo. Outlet box. 1,752,322; Apr. 1.
Adams, Albert, McMechen, W. Va. Smoke consumer. 1,752,717; Apr. 1.
Adams-Barre Company, The. (See Adams, John Q., assignor.)
Adams Coal Machinery Company. (See Adams, Henry, assignor.)
Adams, Henry, assignor to Adams Coal Machinery Company, Plainfield, N. J. Barge coal-loading apparatus. 1,752,410; Apr. 1.
Adams, John Q., assignor to The Adams-Barre Company, Columbus, Ohio. Tire vulcanizer. 1,752,829; Apr. 1.
Aeolian Company, The. (See Head, Robert, assignor.)
Aeschbach, Friedrich, Aarau, Switzerland. Mixing and kneading machine. 1,752,628; Apr. 1.
Affel, Herman A., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Reduction of static interference in carrier systems. 1,752,360; Apr. 1.
Agfa Ansco Corporation. (See Risdon, John J., assignor.)
Aktiengesellschaft "Kolmag". (See Kolm, Ludwig, assignor.)
Alexander, Zeno, Kansas City, Mo. Transmission. 1,753,104; Apr. 1.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Transmission of pictures. 1,752,876; Apr. 1.
Allerton, Robert W., South Orange, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., Pump. 1,752,546; Apr. 1.
Alterthum, Hans, Berlin, Germany, assignor to General Electric Company. Macrocrystal ingot and making it. 1,752,877; Apr. 1.
Altorfer, Alpheus W., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,752,547; Apr. 1.
Altorfer Bros. Company. (See Altorfer, Alpheus W., assignor.)
Altorfer Brothers Company. (See Simmons, Theodore, assignor.)
Ambler Asbestos Company. (See Mattison, Richard V., assignor.)
Ambye, Anthon, assignor to Davis & Furber Machine Company, Andover, Mass. Twister tube for spinning frames. 1,752,878; Apr. 1.
American Blower Corporation. (See Anderson, Edward L., assignor.)
American Lithographic Company. (See Banzett, William H., assignor.)
American Manganese Steel Company. (See Bruton, William C., assignor.)
American Manganese Steel Company. (See Estes, Clarence H., assignor.)
American Meter Company. (See Wilson, George D., assignor.)
American Powder Company. (See Borland, Charles R., assignor.)
American Radiator Company. (See Courtot, Louis, assignor.)
American Telephone and Telegraph Company. (See Affel, Herman A., assignor.)
American Telephone and Telegraph Company. (See Branson, David E., assignor.)
American Telephone and Telegraph Company. (See Clapp, Robert H., assignor.)
American Telephone and Telegraph Company. (See Kelley, Leo A., assignor.)
American Telephone and Telegraph Company. (See Kelley, L. A., Monk, and Thorp, assignors.)
American Telephone and Telegraph Company. (See Leibe, Frank A., assignor.)
American Textile Company. (See Ball, Ben A., assignor.)
American Type Founders Company. (See Haynes, Merritt W., assignor.)
Ammon, Charles D., Lincoln, Nebr. Hammer-mill feed grinder. 1,752,290; Apr. 1.
Ammon, Charles D., and E. W. Wilcox, Lincoln, Nebr.; said Wilcox assignor to said Ammon. Feed grinder. 1,752,971; Apr. 1.
Amonsen, George H., Minneapolis, Minn. Driving mechanism for machines. 1,752,411; Apr. 1.
Andersen, Carl A. J., Salt Lake City, Utah. Beet topper. 1,752,285; Apr. 1.
Anderson, Augustus L., Brooklyn, N. Y., assignor to Presto Primer and Reducing Valve Corporation. Reducing valve. 1,752,473; Apr. 1.
Anderson, Carter H., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Treating metals. 1,752,474; Apr. 1.
Anderson, Edward L., Grosse Ile, assignor to American Blower Corporation, Detroit, Mich. Radiator. 1,752,879; Apr. 1.
Andreotti, Italo. (See Pardini, J. A., and Andreotti.)
Antizzo, Giuseppe, Brooklyn, N. Y., and G. Latorraca, Newark, N. J. Coin-controlled calling-card box. 1,752,718; Apr. 1.
Armstrong, Francis J., Brooklyn, N. Y., assignor to D. S. Craven, Salem, N. J. Electric-circuit-control lock-switch device for automobiles. 1,752,770; Apr. 1.
Armstrong, Lloyd Van H., Upper Montclair, assignor to Ingersoll-Rand Company, Jersey City, N. J. Steering gear. 1,753,039; Apr. 1.
Art Fixtures, Inc. (See Hoffmann, Otto, assignor.)
Ashworth, George B., Amsterdam, N. Y. Steam-pipe expansion joint. 1,752,475; Apr. 1.
Ast, Carl O., assignor to Pacific Knitting Mills, Inc., Los Angeles, Calif. Bathing suit. 1,752,771; Apr. 1.
Atlantic Refining Company, The. (See Peterkin, Albert G., jr., assignor.)
Atlas Leather Products Corporation, The. (See Marshuts, S. G., and Sockett, assignors.)
Atleson, Andy, et al. (See Smythe, Frank E. and A. Q., assignors.)
Atleson, May, et al. (See Smythe, Frank E. and A. Q., assignors.)
Aulwes, Henry C., Hartford, S. Dak. Brush holder. 1,752,361; Apr. 1.
Austin, Wray R., and J. N. Smith, assignors to F. G. Clark, Toronto, Ontario, Canada. Manufacture of anhydrous aluminum chloride. 1,752,936; Apr. 1.
Autokal Syndicate Limited, The. (See Rowley, C. D., and Jackson, assignors.)
Automatic Electric Inc. (See Nelson, Martin L., assignor.)
Backer, George, Shamokin Dam, Pa. Cylinder potato digger. 1,753,189; Apr. 1.
Baer, Lawrence E., assignor to Baer & Wilde Company, Attleboro, Mass. Bill holder. 1,753,186; Apr. 1.
Baer & Wilde Company. (See Baer, Lawrence E., assignor.)
Bain, Clarence J. (See Olsen, F., and Bain.)
Baird, Arthur J., Portland, Oreg., assignor to Baird Automatic Pre-Heater Co. Regulating apparatus for oil burners. 1,752,548; Apr. 1.
Baird Automatic Pre-Heater Co. (See Baird, Arthur J., assignor.)
Baker, G. W., Machine Company. (See Layton, Harry B., assignor.)
Baldwin, Clarence D., Bellingham, Wash. Railroad-rail straightener. 1,752,629; Apr. 1.
Balin, Samuel, assignor to United Auto Trunk Co., New York, N. Y. Wardrobe hatbox. 1,752,772; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,820; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,821; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,822; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,823; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,824; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,825; Apr. 1.
Ball, Ben A., assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 80,826; Apr. 1.
Bankier, Robert, Philadelphia, Pa. Guide attachment for presser bars. 1,752,328; Apr 1.
Banzett, William H., Bergenfield, N. J., assignor to American Lithographic Company, Inc., New York, N. Y. Plate-registering means. 1,752,659; Apr. 1.
Barber Asphalt Company, The. (See Miller, John S., jr., assignor.)
Barbiers, Ferdinand S., assignor to The Hocking Glass Company, Lancaster, Ohio. Glass dispensing vessel. 1,752,291; Apr. 1.

Barnes Scale Company. (See Fellows, Noble L., assignor.)
Barnett, David A., assignor to Heany Laboratories Inc., New Haven, Conn. Automatic clutch mechanism. 1,752,937; Apr. 1.
Barrett Company, The. (See McCloskey, Gregory E., assignor.)
Barrett Company, The. (See Miller, Stuart P., assignor.)
Barrows, Allan S., Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Car door. 1,752,286; Apr. 1.
Barrows, Donald S., Rochester, N. Y. Railway truck. 1,753,105; Apr. 1.
Barstow, Welch, assignor to Recording Thermometer Company, Los Angeles, Calif. Recording thermometer. 1,752,362; Apr. 1.
Barth, Clarence W., Newburgh, N. Y. Surgical dressing. 1,753,106; Apr. 1.
Bassett, Preston R., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Unattended beacon. 1,753,144; Apr. 1.
Bassick Company, The. (See Herold, Walter F., assignor.)
Bates, Adelmer M., and J. E. Cornell, assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Paper bag. 1,752,292; Apr. 1.
Bates, Bethel J., assignor of one-half to A. S. Gregg, Cleveland, Ohio. Balance for watch movements. 1,752,773; Apr. 1.
Bates Valve Bag Corporation. (See Bates, A. M., and Cornell, assignors.)
Bates Valve Bag Corporation. (See Cornell, John E., assignor.)
Baum, Leo, deceased, Brooklyn, N. Y.; A. R. Bond, executor. Locket. 1,752,719; Apr. 1.
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-covertrimming machine. 1,752,774; Apr. 1.
Beardsley, Elmer O., and W. F. Piper, assignors to The Beardsley & Piper Company, Chicago, Ill. Sand-feeding mechanism for molding machines. 1,752,549; Apr. 1.
Beardsley, Harry I., Chatham, and H. R. Clarke, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Cord fastener. 1,752,585; Apr. 1.
Beardsley & Piper Company, The. (See Beardsley, E. O., and Piper, assignors.)
Beaver, Charles J., Bowden, assignor to W. T. Glover and Company Limited, Manchester, England. Impregnating paper for insulation of electric cables and apparatus therefor. 1,752,972; Apr. 1.
Becker, Christian, Walker Township, Kent County, and F. Kleinheksel, Flint, Mich. Air-heating furnace. 1,752,938; Apr. 1.
Becker, Joseph, and J. Van Ackeren, Pittsburgh, Pa., assignors to The Koppers Company. Coking retort oven. 1,752,363; Apr. 1.
Bee, Herbert, Manchester, assignor to Woodbury Shoe Mfg. Co., Derry, N. H. Boot or shoe and shank stiffener therefor. 1,752,775; Apr. 1.
Beitler, John, Brentwood, Pa. Safety attachment for wringers. 1,753,040; Apr. 1.
Belcher, Gertrude, assignor to M. B. Johnson, Hollywood, Calif. Rug and making the same. 1,752,287; Apr. 1.
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Buckley, Oliver E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Dehn, Joseph W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Fowler, Clarence B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hartley, Ralph V. L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kinkead, Fullerton S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Korn, Franklin A., assignor.)
Bendix Aviation Corporation. (See Semmes, Harry H., assignor.)
Bendix Brake Company. (See Dodge, Adiel Y., assignor.)
Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Condenser. 1,753,001; Apr. 1.
Bergelson, Isadore, assignor of one-half to M. Rosen, Philadelphia, Pa. Sugar dispenser. 1,752,720; Apr. 1.
Beyer, Henry L., assignor to Gillinder & Sons, Inc., Philadelphia, Pa. Illuminating globe or similar article. Des. 80,827; Apr. 1.
Bierce, Harold E., Los Angeles, Calif. Preparing adsorbent materials. 1,752,721; Apr. 1.
Biette, Henry C., Detroit, assignor of twenty per cent to J. S. Langtin, Wyandotte, Mich. Steam cooker. 1,752,584; Apr. 1.
Birrer, John B., Alhambra, Calif. Sole stitcher. 1,752,722; Apr. 1.
Black, Clarence J., North Little Rock, Ark. Crosshead-guide anchor. 1,753,107; Apr. 1.
Black & Decker Manufacturing Company, The. (See Decker, Alonzo G., assignor.)
Blackmond, William C., Ranger, Tex. Chlorinating apparatus. 1,752,723; Apr. 1.
Blackstone Inventions, Inc. (See Blackstone, Selwyn R., assignor.)
Blackstone, Selwyn R., Milwaukee, Wis., assignor, by mesne assignments, to Blackstone Inventions, Inc. Bottle capper. 1,752,973; Apr. 1.
Blickman, Harry, New York, N. Y., assignor to S. Blickman, Inc., Weehawken, N. J. Exercising apparatus. 1,752,412; Apr. 1.
Blickman S., Inc. (See Blickman, Harry, assignor.)
Bliss, Edward P., jr., Philadelphia, Pa. Motor-driven blower. 1,752,330; Apr. 1.
Blum, Edward H. (See de Beaumont, J., and Blum.)
Blume, Louis F., Pittsfield, Mass., assignor to General Electric Company. Transformer. 1,752,880; Apr. 1.
Bochnak, Andrew, Bobtown, Pa. Automatic rifle. 1,752,324; Apr. 1.
Bockmühl, Max. (See Lautenschläger, C. L., Bockmühl, and Schwabe.)
Boedtcher, Franz A., Bergenfield, N. J., assignor to Otis Elevator Company, Jersey City, N. J. Safety device for elevator cage and shaft doors. 1,752,476; Apr. 1.
Boggs, Charles R., Waban, assignor to Simplex Wire and Cable Company, Boston, Mass. Cable. 1,752,974; Apr. 1.
Bolinder, Erik A., Stockholm, Sweden. Saw blade. 1,752,586; Apr. 1.
Bollinger, Paul, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Armature ventilation. 1,752,364; Apr. 1.
Bond, Alexander R., executor. (See Baum, Leo, assignor.)
Bondesen, Aage N., Copenhagen, Denmark. Carburetor. 1,753,108; Apr. 1.
Borghardt John H. (See Walther, G., Walkley, and Borghardt.)
Borland, Charles R., Concord, assignor, by mesne assignments, to American Powder Company. Boston, Mass. Manufacture of smokeless powder. 1,752,881; Apr. 1.
Bourdon, Pierre M., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Grommet for pneumatic tires. 1,753,041; Apr. 1.
Bourie, Ignace, Reno, Nev. Internal-combustion-engine fuel. 1,752,724; Apr. 1.
Boutwell, Harry O., Los Angeles, Calif. Scrubbing machine. 1,752,882; Apr. 1.
Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Shoe rack. 1,752,288; Apr. 1.
Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)
Boye Needle Company, The. (See Davis, Edward D., assignor.)
Boyette, Noah A., Habira, Ga. Jack. 1,752,776; Apr. 1.
Boyle, Clete L. (See Klinger, J. D., and Boyle.)
Brach, Leon S., East Orange, N. J. Lightning arrester. 1,752,660; Apr. 1.
Braden, Harry L., Youngstown, Ohio. Mold wash. 1,752,725; Apr. 1.
Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Apparatus for operating suction-actuated devices in connection with the suction passages of internal-combustion engines. 1,753,165; Apr. 1.
Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Method of and apparatus for operating suction-actuated devices in connection with the suction passages of internal-combustion engines. 1,753,166; Apr. 1.
Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Method of and apparatus for operating suction-actuated devices in connection with the suction passages of internal-combustion engines. 1,753,167; Apr. 1.
Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Fueliser for air withdrawn from suction-actuated power actuators. 1,753,168; Apr. 1.
Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)
Brahy, Victor A. M. E., St. Hilaire, Quebec, Canada. Airship construction. 1,752,831; Apr. 1.
Brandes Laboratories, Incorporated. (See Enderwood, Richard C., assignor.)
Brannaka, Robert B., Roaring Branch, Pa. Wire-twisting apparatus. 1,752,726; Apr. 1.
Branson, David E., River Edge, N. J., assignor to American Telephone and Telegraph Company. Reduction of static interference in carrier systems. 1,752,325; Apr. 1.
Branson, David E., River Edge, N. J., assignor to American Telephone and Telegraph Company. Reduction of static interference in carrier systems. 1,752,326; Apr. 1.
Braunstein-Loskant, Joseph, Basel, Switzerland. Apparatus for learning correct bow work for stringed instruments. 1,753,053; Apr. 1.
Breese, James L., jr., assignor to Oil Devices Corporation, Chicago, Ill. Hydrocarbon burner. 1,752,727; Apr. 1.
Brennan, James S., Attleboro, Mass. Combined spiritual mass card tray and stand therefor. Des. 80,828; Apr. 1.
Brenner, Charles M., Shreveport, La. Refrigeration coil. 1,753,042; Apr. 1.
Brewster, Percy D., Newark, N. J. Camera for color cinematography. 1,752,477; Apr. 1.
Briody, Bernard, assignor to Truscon Steel Company, Youngstown, Ohio. Dowel for concrete structures. 1,752,327; Apr. 1.

Britton, Edgar C., assignor to The Dow Chemical Company, Midland, Mich. Purifying phenyl-ethyl alcohol. 1,752,365; Apr. 1.
Brodersen, Karl, and W. Ext, Dessau in Anhalt, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Fungicide. 1,752,293; Apr. 1.
Bronander, Wilhelm B., Montclair, N. J. Roller bearing and mounting therefor. 1,752,777; Apr. 1.
Brown, A. G., Boveri & Cie. (See Kopellowitsch, J., and Stoecklin, assignors.)
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown, Frank G., Detroit, Mich. Pump. 1,752,366; Apr. 1.
Brown, Maurice M., Washington, D. C. Swimming catamaran. 1,752,630; Apr. 1.
Brown, William A., Philadelphia, and E. A. Corbin, jr., Swarthmore, Pa. Cooling, drying, and lighting fixture. 1,752,778; Apr. 1.
Bruback, Theodore M. (See Linaker, F. W., and Bruback.)
Brumder, Thekla U., executrix. (See Brumder, William C.)
Brumder, William C., deceased, Milwaukee, Wis.; T. U. Brumder, executrix. Mixing device. 1,752,832; Apr. 1.
Brumder, William C., deceased, Milwaukee, Wis.; T. U. Brumder, executrix. Mixing apparatus. 1,752,833; Apr. 1.
Brunn and Company. (See Brunn, Hermann A., assignor.)
Brunn, Hermann A., assignor to Brunn and Company, Inc., Buffalo, N. Y. Seat mounting for automobiles. 1,752,368; Apr. 1.
Bruton, William C., Albany, Calif., assignor to American Manganese Steel Company, Chicago, Ill. Choker hook. 1,752,367; Apr. 1.
Bryant, George F., and W. S. Warnock, Chicago, Ill. Printing-press bed. 1,752,779; Apr. 1.
Bryce, James W., Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y. Secondary clock. 1,752,939; Apr. 1.
Buckeye Steel Castings Company, The. (See Bush, Samuel P., assignor.)
Buckeye Steel Castings Company, The. (See Johnson, G. T., and Stertzbach, assignors.)
Buckley, Oliver E., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling cable. 1,752,413; Apr. 1.
Bulten, William C., assignor of one-half to P. N. De Wit, Lansing, Ill., and one-half to F. N. De Wit. Table structure. 1,752,780; Apr. 1.
Bull, Arthur W., assignor to The Dorr Company, New York, N. Y. Defecation of sugar juice. 1,752,781; Apr. 1.
Burnett, Clarence H., Crothersville, Ind. Belt buckle. 1,752,414; Apr. 1.
Burton, Charles G., Salem, Ohio. Water-closet attachment. 1,752,782; Apr. 1.
Busenbark, William R., Akron, Ohio. Frame for license plates. 1,752,883; Apr. 1.
Bush, Samuel P., assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Car truck. 1,752,728; Apr. 1.
Butler, Howard, Four Oaks, England. Electric measuring instrument. 1,753,043; Apr. 1.
Butz, Walter D., Norristown, assignor of one-half to L. N. D. Williams, Elkins Park, Pa. Stocking. 1,752,587; Apr. 1.
Call, George R., Sioux City, Iowa. Vehicle traffic signal. 1,752,289; Apr. 1.
Cameron Can Machinery Co. (See Cameron, William, assignor.)
Cameron, William, assignor to Cameron Can Machinery Co., Chicago, Ill. Square-can cap-seaming mechanism. 1,752,328; Apr. 1.
Campbell, Charles A., Watertown, N. Y., assignor to The New York Air Brake Company. Feed-valve mounting. 1,752,631; Apr. 1.
Campbell, Chester C., West Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Elevator-cab construction. 1,752,661; Apr. 1.
Campbell, Samuel J., Green Bay, Wis., assignor to Hudson-Sharp Machine Company. Folding machine. 1,752,415; Apr. 1.
Cannon, Hiram B., Midway, Ky., assignor to The Carborundum Company, Niagara Falls, N. Y. Combustion chamber. 1,752,518; Apr. 1.
Canter, David, Mattapan, Mass. Ice-cream cone. 1,752,729; Apr. 1.
Caps, Arthur W., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Copyholder. 1,752,329; Apr. 1.
Carbide and Carbon Chemicals Corporation. (See Ray, A. B., and Felbeck, assignors.)
Carborundum Company, The. (See Cannon, Hiram B., assignor.)
Carburetor Control Company. (See Hess, Harry W., assignor.)
Cardinet, George H., Oakland, Calif. Display holder for bar candy or the like. 1,752,519; Apr. 1.
Carlson, Fritz O., Worcester, Mass. Tag-stringing machine. 1,752,730; Apr. 1.
Carlson, Victor E., San Diego, Calif. Sewing cabinet. 1,752,834; Apr. 1.
Carnahan, Ralph W. (See Love, William J., jr., assignor.)
Carpenter, B. G., & Co. Inc. (See Carpenter, Lansing T., assignor.)
Carpenter, Lansing T., assignor to B. G. Carpenter & Co. Inc., Wilkes-Barre, Pa. Crepe-steaming rack. 1,752,884; Apr. 1.
Carr-Lowrey Glass Co. (See Garwood, Charles B., assignor.)
Carroll, Frank, San Enselmo, Calif. Dispensing device. 1,752,885; Apr. 1.
Caruso, Louis, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y. Bumper. 1,752,731; Apr. 1.
Case Research Laboratory, Inc. (See Case, Theodore W., assignor.)
Case, Theodore W., assignor to Case Research Laboratory, Inc., Auburn, N. Y. Camera. 1,753,002; Apr. 1.
Chambers Brothers Company. (See King, Howard K., assignor.)
Chapman, Romaine C., Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Display cabinet. 1,752,369; Apr. 1.
Chappell, Annie M., et al., executors. (See Chappell, Fred B.)
Chappell, Fred B., deceased, assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y., A. M. Chappell and W. T. Cowles, executors. Apparatus for handling paper pulp. 1,752,886; Apr. 1.
Cheesman, Silas A., Winnipeg, Manitoba, assignor to Northern Aerial Minerals Exploration Ltd., Toronto, Ontario, Canada. Ski pedestal for aeroplanes. 1,752,416; Apr. 1.
Chemische Fabrik auf Actien (vorm. E. Schering). (See Wreschner, M., and Loeb, assignors.)
Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y. Engine-starting apparatus. 1,752,835; Apr. 1.
Christophers, Digby R. N., South Kensington, London, England. Convertible bed settee. 1,752,417; Apr. 1.
Chuprin, Charles V., Mount Carmel, Pa. Cuff fastener. 1,752,732; Apr. 1.
Chutter, George A., Schenectady, N. Y., assignor to General Electric Company. Induction furnace. 1,752,887; Apr. 1.
Cilley, Albert E., Melrose, Mass. Process and tool for surfacing blanket cylinders. 1,752,940; Apr. 1.
Clapp, Robert H., Ramsey, N. J., assignor to American Telephone and Telegraph Company. Suppression of interference in carrier telegraph systems. 1,752,330; Apr. 1.
Clark, Farley G. (See Austin, W. R., and Smith, assignors.)
Clark, John L., assignor of one-half to W. A. Yoho, Scottdale, Pa. Hammer. 1,752,588; Apr. 1.
Clark, John M., Detroit, Mich., and I. D. Ford, Roseland, Ontario, Canada, assignors to Universal Button Fastening & Button Company, Detroit, Mich. Button. 1,752,418; Apr. 1.
Clark, John M., Detroit, Mich., and I. D. Ford, Roseland, Ontario, Canada, assignors to Universal Button Fastening & Button Co., Detroit, Mich. Button. 1,752,419; Apr. 1.
Clark, John M., Detroit, Mich., and I. D. Ford, Roseland, Ontario, Canada, assignors to Universal Button Fastening & Button Company, Detroit, Mich. Button. 1,752,420; Apr. 1.
Clark, Omar E., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Haulage apparatus. 1,752,333; Apr. 1.
Clarke, Harry R. (See Beardsley, H. I., and Clarke.)
Cleary, Andrew W., Rochester, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Liquid-dispensing apparatus. 1,752,941; Apr. 1.
Clerkx van Keulen, Godefridus H., assignor to De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Trip casing spear. 1,753,074; Apr. 1.
Cleveland Welding Company, The. (See Krans, Harry W., assignor.)
Cloud, Walter A., Chiswick, London, England. Grinding, pulverizing, or disintegrating mill. 1,752,888; Apr. 1.
Cochin, Solomon. (See Schneyer, M. D., and Cochin.)
Colburn, Herbert C., San Leandro, Calif. Radiotube. 1,752,520; Apr. 1.
Colby, Frederic R., and A. L. Larsen, assignors to The Surface Combustion Company, Inc., Toledo, Ohio. Transferring objects to hook-type conveyers. 1,752,783; Apr. 1.
Cole, James B., Memphis, Tenn. Adjustable cot and headrest for burial caskets. 1,753,100; Apr. 1.
Collins, Harold B., Philadelphia, Pa. Envelope-filling machine. 1,752,784; Apr. 1.
Colson Company, The. (See Johnson, Wilfred G., assignor.)
Columbia Phonograph Company. (See Hinckley, Frank C., assignor.)
Columbus Machine Company, The. (See Sparks, Stanley W., assignor.)
Comstock-Castle Stove Company. (See Sandell, Joseph H., assignor.)
Concealed Door Check Co., The. (See Eastman, Floyd K., assignor.)
Concha, Thomas. (See Rogers, J. H., and Concha.)
Conran, William F., Brooklyn, N. Y. Valve. 1,752,836; Apr. 1.
Continental Can Company. (See Kronquest Alfred L., assignor.)

Continental-Diamond Fibre Company. (See McIntosh, James, assignor.)
Corbin, Elbert A., jr. (See Brown, W. A., and Corbin.)
Cornell, John E. (See Bates, A. M., and Cornell.)
Cornell, John E., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill. Multiple-walled bag. 1,752,370; Apr. 1.
Corns, Thomas, Richmond, Victoria, Australia. Apparatus for manufacturing pies. 1,752,837; Apr. 1.
Cornwell, Edwin T. and F. W., London, England. Anti-dazzle spectacles. 1,752,889; Apr. 1.
Cornwell, Frederick W. (See Cornwell, Edwin T. and F. W.)
Correns, Erich. (See Hubert, E., Röst-Grande, and Correns.)
Courtot, Louis, Paris, France, assignor to American Radiator Company, New York, N. Y. Radiator. 1,752,785; Apr. 1.
Coviello, Anthony, Denver, Colo. Signal-light casing. Des. 80,829; Apr. 1.
Cowles, Irving, assignor to Union Bank of Chicago, trustee, Chicago, Ill. Force-feed lubricating device. 1,752,975; Apr. 1.
Cowles, Irving, Detroit, Mich., assignor to Union Bank of Chicago, trustee, Chicago, Ill. Flexible conduit assembly and making same. 1,752,976; Apr. 1.
Cowles, William T., et al., executors. (See Chappell, Fred B.)
Coyte, William A., assignor to J. Lyons and Company, Limited, London, England. Plastic-material measuring and filling machine. 1,752,890; Apr. 1.
Crane, Charles R., 2d., assignor to Crane Co., Chicago, Ill. Tubular shower head. 1,752,633; Apr. 1.
Crane Co. (See Crane, Charles R., 2d., assignor.)
Craven, D. Stewart. (See Armstrong, Francis J., assignor.)
Cree, George G., Schenectady, N. Y., assignor to General Electric Company. Protection of electric systems. 1,752,942; Apr. 1.
Cridland, Clifford F., Carter County, Mont. Caponizing instrument. 1,752,891; Apr. 1.
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Lindegren, Carl J., assignor.)
Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Cross, Walter M., Kansas City, Mo. Aeroplane-wing construction. 1,752,421; Apr. 1.
Crossman, Francis M., New York, N. Y. Binder for fuel agglomerates. 1,752,838; Apr. 1.
Cubrda, Frank. (See Tomec, J., and Cubrda.)
Culver, Gene G., St. Louis, Mo. Receptacle for use in manicuring. 1,753,044; Apr. 1.
Cumberland, John C., Schenectady, N. Y., assignor to General Electric Company. Motor control. 1,752,892; Apr. 1.
Cummins, Clessie L., assignor to Oil Engine Development Company, Columbus, Ind. Oil-burning engine. 1,752,786; Apr. 1.
Cutler, David A., Wollaston, Mass. Shoe. 1,752,787; Apr. 1.
Dabney, Conway, Crystal Springs, Miss. Direction signal. 1,753,110; Apr. 1.
Dahlström, Arvid O. (See Johansson, S. A. F., and Dahlström.)
Daniels, Anthony, Newark, N. J. Receptacle and making same. 1,752,371; Apr. 1.
David, Auguste G., and P. Gisclon, Villeurbanne, France. Machine for rupturing the ends projecting from wire heddles. 1,752,733; Apr. 1.
Davidson, George A. (See Halloran, R. A., Davis, and Davidson.)
Davis, Charles C. (See Nagle, Edward, assignor.)
Davis, Edward D., assignor to The Boye Needle Company, Chicago, Ill. Hairpin. 1,752,893; Apr. 1.
Davis & Furber Machine Company. (See Ambye, Anthon, assignor.)
Davis, William N. (See Halloran, R. A., Davis, and Davidson.)
Dawson, George H., Cambridge, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Card index. 1,752,294; Apr. 1.
Day, Alva G., South Edmeston, N. Y., assignor, by mesne assignments, to K-P-C Company. Dehydrating cheese. 1,752,521; Apr. 1.
Dayton Steel Foundry Company, The. (See Walther, G., Walkley, and Borghardt, assignors.)
De Batsafsche Petroleum Mattschappij. (See Clerkx van Keulen, Godefridus H., assignor.)
De Beaumont, Julien, Huntington Park, and E. H. Blum, Los Angeles, Calif. Apparatus for producing electric waves. 1,752,632; Apr. 1.
De Bothezat, George, New York, N. Y. Fan unit. 1,752,372; Apr. 1.
Decker, Alonzo G., Baltimore County, assignor to The Black & Decker Manufacturing Company, Towson, Md. Portable electric tapper. 1,752,422; Apr. 1.
Deere & Company. (See Livesay, Robert C., assignor.)
Degn, Paul, Kiel-Dietrichsdorf, assignor to the firm Howaldtswerke Aktiengesellschaft, Kiel-Neumuhlen-Dietrichsdorf, Germany. Floating dock for water aircraft. 1,752,894; Apr. 1.
Dehn, Joseph W., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,752,550; Apr. 1.
De Jong, Hendrik, Eindhoven, Netherlands, assignor to General Electric Company. Method and apparatus for mounting filaments. 1,752,895; Apr. 1.
De Luxe Metal Furniture Company. (See Levene, Albert H., assignor.)
Denbo, Wilson R., Jackson, Mich. Swimmer's buoy. 1,752,969; Apr. 1.
Dernbach, Charles S., Wausau, Wis. Device for depicting rural scenes. 1,753,111; Apr. 1.
Derossi, Carlo, Turin, Italy. Automatic apparatus for the rapid production of aerated water. 1,753,081; Apr. 1.
Detroit Dental Manufacturing Company. (See Kerr, Robert M., assignor.)
Detroit Harvester Company. (See Otwell, Ralph B., assignor.)
Deubener, Walter H., St. Paul, Minn. Cloth holder. 1,752,896; Apr. 1.
Deutsche Gold & Silber Scheideanstalt vormals Roessler. (See Kochendoerfer, Gerd, assignor.)
Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft. (See Höhne, Wilhelm, assignor.)
De Vilbiss Company, The. (See Mueller, Godfrey A., assignor.)
Dewey, Clarence L., assignor to Outing Manufacturing Company, Elkhart, Ind. Banjo. 1,752,788; Apr. 1.
De Wit, Frank N., et al. (See Buiten, William C., assignor.)
De Wit, Paul N., et al. (See Buiten, William C., assignor.)
Dickey, Elmer C., Kokomo, Ind. Brooder house. 1,753,082; Apr. 1.
Dickman, Margaret D., Duluth, Minn. Plaiter. 1,752,897; Apr. 1.
Dickman, Sam. (See Helwig, Wilhelm A. A. H., assignor.)
Dieterle, Frank, assignor to Ken Wel Sporting Goods Co., Inc., Utica, N. Y. Boxing glove. 1,752,977; Apr. 1.
Dietrichs, Charles, Little Ferry, assignor, by mesne assignments, to Walker Cement Products, Inc., Union City, N. J. Concrete-block machine. 1,752,373; Apr. 1.
Di Giacomo, Michael J., Wilmington, Del. Paper-hanging machine. 1,752,898; Apr. 1.
Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. House-car door construction. 1,752,334; Apr. 1.
Dixon, George L. (See Fluharty, Allan M., assignor.)
Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Top plate for washbasins. Des. 80,830; Apr. 1.
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake construction. 1,752,478; Apr. 1.
Dorr Company, The. (See Bull, Arthur W., assignor.)
Dorr Company, The. (See Downes, Frank A., assignor.)
Dorr Company, The. (See Fahrenwald, Arthur W., assignor.)
Dotson, Herbert F., San Antonio, Tex. Bottled-beverage-vending machine. 1,752,479; Apr. 1.
Dow Chemical Company, The. (See Britton, Edgar C., assignor.)
Downes, Frank A. (See Hoover, C. P., and Downes.)
Downes, Frank A., assignor to The Dorr Company, New York, N. Y. Agitation and settling apparatus. 1,752,789; Apr. 1.
Downes, Nate W. (See Downes, Ralph W., assignor.)
Downes, Ralph W., assignor to N. W. Downes, Kansas City, Mo. Handrail for fire escapes. 1,752,589; Apr. 1.
Drotning, Henry O., New York, N. Y. Toy. 1,752,978; Apr. 1.
Dufio, Thomas, Croghan, N. Y. Magneto contact plug. 1,752,590; Apr. 1.
Duke, Charles A., New York, N. Y. Collapsible seat or bench. 1,752,734; Apr. 1.
Du Pont, E. I., de Nemours & Company. (See Engelmann, Max, assignor.)
Dura Company, The. (See Nicholson, Stanley W., assignor.)
Durable Mat Company. (See Hollenbeck, Harold W., assignor.)
Durnin, Joseph V. (See Uhle, D. J., and Durnin.)
Durrer, Robert, Berlin-Wannsee, F. C. Siemens, Berlin-Dahlem, and A. Sprenger, Berlin-Charlottenburg, assignors to Friedrich Siemens Aktiengesellschaft, Berlin, Germany. Producing steel in an open-hearth furnace. 1,752,374; Apr. 1.
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,752,335; Apr. 1.
Dyer Frank L., Montclair, N. J. Electrical reproducing device. 1,752,943; Apr. 1.
Dykes, Coy M., Ariton, Ala. Peanut-picking machine. 1,752,375; Apr. 1.
Eastman, Floyd K., assignor to The Concealed Door Check Co., Kokomo, Ind. Doorcheck. 1,752,423; Apr. 1.
Eaton Axle & Spring Company, The. (See Howe, James M., assignor.)
Eckelman, Albert J., Portland, Oreg. Spoon-holding clip. 1,752,522; Apr. 1.
Eckstein, Reuben, New York, N. Y. Decorative lighting outfit. 1,752,662; Apr. 1.

Eclipse Machine Company. (See Chilton, Roland, assignor.)
Eclipse Machine Company. (See Marcus, Charles, assignor.)
Eclipse Textile Devices, Inc. (See Uttrich, Louis A., assignor.)
Edwards, Clarence G., Los Angeles, Calif. Counterthrust-pressure motor. 1,752,899; Apr. 1.
Ehrhart, William, Lancaster, Pa. Return apparatus. 1,752,979; Apr. 1.
Eickmeyer, Earl E., assignor to The National Recording Pump Company, Dayton, Ohio. Liquid-measuring pump. 1,752,523; Apr. 1.
Eisenmann, Carl W., Nebraska City, Nebr., assignor to The Safety Car Heating & Lighting Company. Switch construction. 1,752,900; Apr. 1.
Eitzen, August D., New York, N. Y. Controlling alternating currents. 1,752,944; Apr. 1.
Electric Vacuum Cleaner Company. (See Morgal, John F., assignor.)
Electrical Improvements Limited. (See Poynder, Herbert B., assignor.)
Ellinger, John G., Stout, Iowa. Accelerator safety locking device and brake alarm. 1,752,336; Apr. 1.
Ellis, Albert J., Bolton, N. C. Hame connecter. 1,753,045; Apr. 1.
Ellis, Arthur H., Rochester, Minn. Sign holder for automobile bodies. 1,752,591; Apr. 1.
Elliston & Cavell Limited. (See Person, Adolphe A., assignor.)
Enderwood, Richard C., assignor to Brandes Laboratories, Incorporated, Newark, N. J. Escutcheon for control dials. Des. 80,831; Apr. 1.
Engelmann, Max, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Seed disinfectant. 1,752,424; Apr. 1.
Engledow, George R., Raton, N. Mex. Airplane. 1,753,112; Apr. 1.
Englehorn, Elmer H., Douglaston, N. Y. Railroad-crossing signal. Des. 80,832; Apr. 1.
Ensign Carburetor Company. (See Ensign, Roy F. and O. H., assignors.)
Ensign, Orville H. (See Ensign, Roy F. and O. H.)
Ensign, Roy F. and O. H., Pasadena, assignors to Ensign Carburetor Company, Los Angeles, Calif. Carburetor. 1,752,551; Apr. 1.
Erie City Iron Works. (See Heckeroth, William C., assignor.)
Ersland, Amos K., Manhattan Beach, Calif. Wrench. 1,752,425; Apr. 1.
Estep, Adrian C., Seattle, Wash. Valve cage. 1,752,790; Apr. 1.
Estes, Clarence H., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Pin plate for molding flasks. 1,752,552; Apr. 1.
Eureka Fire Hose Manufacturing Company. (See Grady, Frank R., assignor.)
Eustice, Alfred L., Chicago, Ill. Fuse. 1,753,046; Apr. 1.
Evans, Walter W., New Rochelle, assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Oil composition, etc. 1,752,945; Apr. 1.
Evans, Walter W., Longmeadow, Mass., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Oil composition, etc. 1,752,946; Apr. 1.
Evensen, William, Chicago, Ill., assignor to Goss Printing Press Company. Folding mechanism. 1,752,426; Apr. 1.
Ext, Werner. (See Brodersen, K., and Ext.)
Fagan, John J., Bayonne, N. J. Heat-control apparatus. 1,752,663; Apr. 1.
Fagan, John L. (See Schwartz, W. M., Harrison, and Fagan.)
Fahrenwald, Arthur W., Moscow, Idaho, assignor to The Dorr Company, New York, N. Y. Hydraulic classifier. 1,752,791; Apr. 1.
Fairbanks, E. Hayward. (See Sparrow, William T., assignor.)
Faist, Jacob. (See Zwilling, A. J., and Faist.)
Fales, Elisha N., Dayton, Ohio. Device for improving the aerodynamic efficiency of an exhauster fan. 1,752,427; Apr. 1.
Falkenburg, Julius, Neuwied-on-the-Rhine, Germany. Rowing apparatus for gymnastic exercises. 1,752,901; Apr. 1.
Fantz, Fred C., Webster Groves, Mo. Return bend. 1,752,331; Apr. 1.
Fantz, Fred C., Webster Groves, Mo. Clean-out elbow for cracking stills, etc. 1,752,332; Apr. 1.
Faries Manufacturing Company. (See Miller, George L., assignor.)
Farman, Henri et Maurice. (See Waseige, Charles E., assignor.)
Farner, August, Kusnacht-Zurich, Switzerland. Device for disintegrating and conveying materials. 1,752,902; Apr. 1.
Farr, Alfred C., Upland, assignor of one-fourth to No-Greef Products, Incorporated, Muncie, Ind. Door-operating mechanism. 1,753,083; Apr. 1.
Farver, Jonathan, Shipshewanna, Ind. Hinge. 1,752,428; Apr. 1.
Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working pulpous material. 1,752,480; Apr. 1.
Featheredge Rubber Company. (See Felix, Benjamin B., assignor.)
Fedders Manufacturing Company. (See Williams, Edward T., assignor.)
Felbeck, George T. (See Ray, A. B., and Felbeck.)
Feldman, J. M., Co. Inc. (See Holdeman, Harry R., assignor.)
Felix, Benjamin B., Chicago, Ill., assignor to Featheredge Rubber Company, Inc. Chair cushion. 1,752,295; Apr. 1.
Fellows, Noble L., assignor to Barnes Scale Company, Detroit, Mich. Scale. Des. 80,871; Apr. 1.
Felten & Guilleaume Carlswerk Actiengesellschaft. (See Zapf, Georg, assignor.)
Fildes, Frederick K., Altoona, Pa. Safety locking mechanism. 1,752,634; Apr. 1.
Firestone Tire and Rubber Company, The. (See Russell, Ronald F., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, William C., assignor.)
Firestone Tire and Rubber Company, The. (See Tenney, Frederick H., assignor.)
Fisk Rubber Company, The. (See Healy, Leon J. D., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Flagge, Philip W., High Point, N. C. Needle drier. 1,752,903; Apr. 1.
Floyd, George, Portsmouth, Ohio. Ringless self-expanding piston. 1,753,113; Apr. 1.
Fluharty, Allan M., assignor of fifteen per cent to G. L. Dixon, Miami, Fla. Sewing-machine threader. 1,753,114; Apr. 1.
Folberth, Frederick G. and W. M., Cleveland, Ohio. Radiator cap. 1,753,003; Apr. 1.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Folger, Henry C., Waltham, assignor, by mesne assignments, to Waltham System, Inc., Waverley, Mass. Refrigeration cabinet. 1,752,553; Apr. 1.
Fonda, Douglass C., West Orange, N. J., assignor to Nixon Vending and Change Making Machines, Inc., New York, N. Y. Vending cabinet. 1,752,635; Apr. 1.
Forcier, George J., Lakewood, Ohio. Apparatus for cleaning walls. 1,752,664; Apr. 1.
Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Auxiliary transmission. 1,752,980; Apr. 1.
Ford, Ira D. (See Clark, J. M., and Ford.)
Ford Motor Company. (See Ford, Henry, assignor.)
Ford Motor Company. (See Wharam, John J., assignor.)
Forney, Scott G. (See Polle, G. A., and Forney.)
Fowler, Clarence B., Queens Village, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone set. 1,752,429; Apr. 1.
Franchetti, Nick. (See Orbin, George, assignor.)
Franklin Railway Supply Company. (See Roberts, M. H., and Peters, assignors.)
Franklin Simon & Company. (See Long, Dorothy, assignor.)
Freeling, Joseph E., et al. (See Thexton, J., jr., and Tomlinson, assignors.)
Freund, Edward, Long Beach, N. Y. Sound reproducer. 1,752,981; Apr. 1.
Friedländer, Daniel, Brussels, Belgium, assignor to Messrs. A. Meursing and E. J. Gratama, Amsterdam, Netherlands. Manufacture of sensitized velvet paper for photographical uses. 1,752,665; Apr. 1.
Friedley-Voshardt Co. (See Voshardt, Herman F., assignor.)
Friedman, Benjamin L., and S. Kovac, Roebling, N. J. Mop head and wringer. 1,752,337; Apr. 1.
Frohman, Emanuel. (See Stewart, Walter C., assignor.)
Fromm, Herbert, Hamburg, Wis. Shock absorber. 1,753,047; Apr. 1.
Frommann, Gustav H. (See Geer, Lawrence S., assignor.)
Fujii, Momotaro, Tokyo, Japan. Therapeutical instrument. 1,752,338; Apr. 1.
Fuller, Frank W., St. Paul, Minn. Reversible radiator hanger. 1,752,296; Apr. 1.
G. C. A. Manufacturing Company, The. (See Grinnell, Harold D., assignor.)
Gabriel Steel Company. (See Zabriskie, William F., assignor.)
Gallagher, George F., assignor to Krem-Ko Company, Chicago, Ill. Bottle or similar article. Des. 80,868; Apr. 1.
Gammeter, John R., Akron, Ohio, assignor to A. G. Spalding and Bros. Making balls. 1,752,735; Apr. 1.
Gardiner, Paul C., Oakland, Calif., assignor to General Electric Company. Amplifier. 1,752,839; Apr. 1.
Gardner-Denver Company, The. (See Clark, Omar E., assignor.)
Garfrell, Charles B., Kansas City, Mo. Wrench. 1,752,430; Apr. 1.
Garwood, Charles B., Linthicum Heights, assignor to Carr-Lowrey Glass Co., Baltimore, Md. Making flat bottles. 1,752,481; Apr. 1.
Gauger, Frank A., and R. W. Johnson, Milwaukee, Wis., assignors, by mesne assignments, to Time-O-Stat Controls Company. Water-heater appliance. 1,752,840; Apr. 1.
Gaw-O'Hara Envelope Company. (See Olgay, Albert, assignor.)
Gay, Frazer W., Newark, N. J. Protective system for transmission circuits. 1,752,666; Apr. 1.

Gear Grinding Company, Limited, The. (See Snarry, John W., assignor.)
Geer, Lawrence S., New York, assignor to G. H. Frommann, Concord, N. Y. Display device. 1,753,004; Apr. 1.
General Aniline Works, Inc. (See Kammerer, Hans, assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Alterthum, Hans, assignor.)
General Electric Company. (See Blume, Louis F., assignor.)
General Electric Company. (See Chutter, George A., assignor.)
General Electric Company. (See Cree, George G., assignor.)
General Electric Company. (See Cumberland, John C., assignor.)
General Electric Company. (See de Jong, Hendrik, assignor.)
General Electric Company. (See Gardiner, Paul C., assignor.)
General Electric Company. (See Gittings, William N., assignor.)
General Electric Company. (See Handschin, Eugen, assignor.)
General Electric Company. (See Hösel, Paul, assignor.)
General Electric Company. (See Hoxie, Charles A., assignor.)
General Electric Company. (See Otis, Albert N., assignor.)
General Electric Company. (See Park, Robert H., assignor.)
General Electric Company. (See Rohkohl, Wilhelm, assignor.)
General Electric Company. (See Ruggles, William A., assignor.)
General Electric Company. (See Seede, John A., assignor.)
General Electric Company. (See Stevenson, Alexander R., jr., assignor.)
General Electric Company. (See Taylor, Laurens A., assignor.)
General Electric Company. (See Trombetta, Panfilo, assignor.)
General Electric Company. (See Wieseman, Robert W., assignor.)
General Electric Company. (See Zabel, William P., assignor.)
General Electric Company. (See Zelt, Elmer J., assignor.)
General Refractories Company. (See Trostel, Louis J., assignor.)
General Street Signal Corporation. (See Ruddick, John J., assignor.)
Genkin, Vladimir, Marseille, France. Protective system. 1,752,947; Apr. 1.
Gentry, Robert R. (See Williamson, T. W., and Gentry.)
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Looping trough for rolling mills. 1,752,841; Apr. 1.
Georgia Cushion and Wrapper Company. (See Woodall, John H., assignor.)
Gerbracht, Wilford B., Ames, Iowa. Take-off and landing device for aeroplanes. 1,752,554; Apr. 1.
Gilburg, Roy O., assignor to Marathon Electric Mfg. Co., Wausau, Wis. Coin-controlled switch-operating mechanism. 1,752,592; Apr. 1.
Gilchrist Company, The. (See Jameson, Thomas, assignor.)
Gill, John O., Barnesboro, Pa. Switch-throw stand. 1,752,736; Apr. 1.
Gillette, Maude M., New York, N. Y. Support for pictures, cards, etc. 1,752,297; Apr. 1.
Gillinder & Sons, Inc. (See Beyer, Henry L., assignor.)
Giordano, John, San Francisco, Calif. Tile-roof closure. 1,752,593; Apr. 1.
Gisclon, Pierre. (See David, A. G., and Gisclon.)
Gittings, William N., Upper Darby, Pa., assignor to General Electric Company. Control system. 1,752,842; Apr. 1.
Glens Falls Machine Works. (See Chappell, Fred B., assignor.)
Globe Lighting Fixture Mfg. Co. (See Rosenblatt, Isidor, assignor.)
Glover, W. T., and Company Limited. (See Beaver, Charles J., assignor.)
Glueck, John, West New York, N. Y., assignor of one-half to R. Hunkle, Grantwood, N. J. Brake. 1,752,377; Apr. 1.
Gobble, Lew W., Grand Junction, Colo. Airplane-wing section. 1,752,378; Apr. 1.
Going, George G., Middletown, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,752,482; Apr. 1.
Goldman, S. W., et al. (See Schultis, Charles F., assignor.)
Goodman, Lawrence M., Detroit, Mich. Emblem or similar article. Des. 80,869; Apr. 1.
Goodrich, William F., Detroit, Mich. Ramp structure. 1,753,115; Apr. 1.
Goodwin, John B., San Francisco, Calif. Internal-combustion engine. 1,752,379; Apr. 1.
Goss Printing Press Company. (See Evensen, William, assignor.)
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Grady, Frank R., Caldwell, assignor to Eureka Fire Hose Manufacturing Company, Jersey City, N. J. Uniting tubular members. 1,753,005; Apr. 1.
Graetzer, Otto, Zurich-Zollikon, Switzerland. Automatic cistern for liquids. 1,752,986; Apr. 1.
Graner, Hans. (See Ossanna, J., Graner, and Hofmann.)
Grant, Albert E., assignor to Grant Heat Machine Corporation, New York, N. Y. Oil feeding and burning apparatus. 1,753,145; Apr. 1.
Grant, Albert E., New York, N. Y., assignor to Grant Heat Machine Corporation, New York, N. Y. Oil-burning apparatus. 1,753,146; Apr. 1.
Grant Heat Machine Corporation. (See Grant, Albert E., assignor.)
Grant, Thomas, Gillespie, Ill. Drill. 1,752,524; Apr. 1.
Gratamm, E. J., et al. (See Friedländer, Daniel, assignor.)
Green, Walter H., Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Process and apparatus for softening water. 1,752,339; Apr. 1.
Greene, Le Roy, Chicago, Ill. Vending machine. 1,752,376; Apr. 1.
Greenlee Bros. & Co. (See Abramson, John H., assignor.)
Greffin, Philipp, assignor to Melone-Bovey Lumber Co., Minneapolis, Minn. Printing die. 1,752,298; Apr. 1.
Gregg, Albert S. (See Bates, Bethel J., assignor.)
Gress, Henry, South Ozone Park, Long Island, N. Y. Key and license holder. 1,752,380; Apr. 1.
Grinnell, Harold D., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass. Device for placing and removing lamp bulbs. 1,752,737; Apr. 1.
Grinnell, Harold D., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass. Fuse tongs. 1,753,181; Apr. 1.
Gross, Benjamin & Edward J., Co. (See Gross, Edward J., assignor.)
Gross, Edward J., New Rochelle, N. Y., assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Finger ring or article of similar nature. Des. 80,833; Apr. 1.
Grout, Martin B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Winding machine. 1,753,187; Apr. 1.
Gulf Production Company. (See Poole, G. A., and Forney, assignors.)
Gunnlaugsson, Skúli, Rio Vista, Calif. Tobacco pipe. 1,752,431; Apr. 1.
Haaf, Henry, Mount Vernon, N. Y. Wrist support. 1,753,006; Apr. 1.
Haerman, Maximillian C., Cleveland, Ohio, assignor to Theo. A. Kochs Company, Chicago, Ill. Corner sign. Des. 80,834; Apr. 1.
Hageman, Aaron M., Bloomfield, and A. F. Lindstrom, Nutley, N. J., assignors to Westinghouse Lamp Company. Composition for coating vitreous articles. 1,752,792; Apr. 1.
Hahnemann, Paul R., assignor to Niagara Machine and Tool Works, Buffalo, N. Y. Clutch. 1,752,843; Apr. 1.
Haines Hosiery Mills, Inc. (See Paget, Harold F., assignor.)
Hall, Bicknell, Quincy, and E. F. Hathaway, Wellesley, assignors to Shawmut Engineering Company, Dorchester, Mass. Winding mechanism particularly adapted for pattern-setting frames. 1,752,738; Apr. 1.
Hall, Frank W., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Illuminating oil and making same. 1,752,299; Apr. 1.
Hall, Hartwell & Co. Inc. (See Hunter, Ralph, assignor.)
Halloran, Ralph A., Berkeley, W. N. Davis, Oakland, and G. A. Davidson, Berkeley, assignors to Standard Oil Company of California, San Francisco, Calif. Continuously hydrolyzing acid sludge. 1,752,555; Apr. 1.
Hammarlund, Lloyd A., Rockville Center, N. Y., assignor to The Hammarlund Manufacturing Company, Inc. Variable coupling device. 1,753,182; Apr. 1.
Hammarlund Manufacturing Company, The. (See Hammarlund, Lloyd A., assignor.)
Hammers, William J., assignor to Liverance & Van Antwerp, Grand Rapids, Mich. Welding-rod coating. 1,752,793; Apr. 1.
Handschin, Eugen, Baden, Switzerland, assignor to General Electric Company. System of induction-motor control. 1,752,904; Apr. 1.
Handy, Levin G., Mountain View, N. J. Toy trackage. 1,753,147; Apr. 1.
Hannegan, Thomas P., St. Paul, Minn. Crank-case heater. 1,752,594; Apr. 1.
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-feeding device. 1,753,007; Apr. 1.
Hansen, Isak, New Rochelle, N. Y. Safety catch. 1,752,987; Apr. 1.
Hanson, Howard V., Walla Walla, Wash. Harness. 1,752,525; Apr. 1.
Hargreaves, Harold, Burnley, assignor to Jackson Boilers Limited, Leeds, England. Water boiler. 1,752,905; Apr. 1.
Harrison, Alma J. (See Schwartz, W. M., Harrison, and Fagan.)
Harrison, Arthur W., assignor of one-half to L. D. Kay, Los Angeles, Calif. Electric shock absorber. 1,752,844; Apr. 1.

Harrison, Burt S., Brooklyn, N. Y. Oven heating and circulating system. 1,752,483; Apr. 1.
Harrison, Walton, New York, N. Y. Magnetic loading for twin conductors. 1,752,556; Apr. 1.
Hart, Frederick A., New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,752,484; Apr. 1.
Harth, C. A. (See Nordgran, James C., assignor.)
Hartley, Ralph V. L., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Secrecy system. 1,752,485; Apr. 1.
Hartley, Ralph V. L., South Orange, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y. Magnetic device. 1,752,486; Apr. 1.
Hatfield, Frank A., assignor of fifty-one per cent to W. H. Logan and forty-nine per cent to E. R. Wolcott, Los Angeles, Calif. Apparatus for pumping liquids. 1,752,739; Apr. 1.
Hathaway, Edgar F. (See Hall, B., and Hathaway.)
Haussler, William J., Brooklyn, N. Y. Harmonica. 1,752,988; Apr. 1.
Haynes, Merritt W., Cranford, assignor to American Type Founders Company, Jersey City, N. J. Adjustable top for type cabinets. 1,753,048; Apr. 1.
Head, Robert, Yonkers, N. Y., assignor to The Aeolian Company. Perforating machine and the like. 1,753,148; Apr. 1.
Healy, Leon J. D., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Cement and making same. 1,752,557; Apr. 1.
Heany Laboratories, Inc. (See Barnett, David A., assignor.)
Heckeroth, William C., assignor to Erie City Iron Works, Erie, Pa. Brick-wall construction. 1,752,558; Apr. 1.
Hegeman, Joseph F. (See Russell, A., and Hegeman.)
Heitman, Herbert, Woodhaven, assignor to The Fred'k Page Contracting Company, New York, N. Y. Incinerator. 1,753,008; Apr. 1.
Heller, William M. (See Stein, C., and Heller.)
Helwig, Wilhelm A. A. H., assignor of one-third to S. Dickman, Detroit, Mich. Ventilating port. 1,752,794; Apr. 1.
Henderson, Jack D., assignor to Moving Colour Signs Limited, London, England. Illuminative advertising apparatus. 1,753,049; Apr. 1.
Henken, Samuel L. (See Rothenberg, H., and Henken.)
Hennessy, Charles C., Indianapolis, Ind. Writing board. 1,752,989; Apr. 1.
Henry, Earl S., Medford, Okla. Steam scoring machine for ice. Re17,630; Apr. 1.
Henry, Harold T. (See Rumford, F., and Henry.)
Hepburn, William M., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Conveyer for use with furnaces. 1,752,432; Apr. 1.
Hermann Manufacturing Company, The. (See Larson, Oscar E., assignor.)
Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Producing spring rings. 1,752,982; Apr. 1.
Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,752,983; Apr. 1.
Herrmann, Robert, New York, N. Y. Fitted traveling bag. 1,752,948; Apr. 1.
Hersam, Conrad O. (See Logue, Charles H., assignor.)
Herzbrun, Isadore, et al. (See Schultis, Charles F., assignor.)
Hess, Harry W., assignor to Carburetor Control Company, Los Angeles, Calif. Mixing throttle valve. 1,753,009; Apr. 1.
Hess, Robert F. W., Detroit, Mich. Parcel receiver. 1,752,984; Apr. 1.
Hewetson, Henry H., Elizabeth, N. J., assignor to Standard Oil Development Company, New York, N. Y. Distillation of hydrocarbons. 1,753,149; Apr. 1.
Hibbert, Ernest, Goulburn, New South Wales, Australia. Tire for motor-vehicle wheels. 1,752,845; Apr. 1.
Hiering, William C., assignor to J. E. Mergott Company, Newark, N. J. Cigarette-package holder. Des. 80,835; Apr. 1.
Hill, Frederick H., assignor to The Monogram Shop, Los Angeles, Calif. Ring. Des. 80,836; Apr. 1.
Hillebrandt, Johan E., Brooklyn, N. Y. Stringed instrument. 1,752,906; Apr. 1.
Hinckley, Frank C., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound amplifier. 1,752,526; Apr. 1.
Hinds, Daniel C., Sioux Falls, S. Dak., and O. Q. Hinds, assignors to Ryan Manufacturing Corporation, Chicago, Ill. Ditch cutter for graders. 1,753,150; Apr. 1.
Hinds, Orville Q. (See Hinds, Daniel C. and O. G.)
Hines, James F., Lakewood, Ohio. Molding flask. 1,752,907; Apr. 1.
Hinnekens, Florent, assignor to Van Vlaanderen Machine Company, Paterson, N. J. Finishing machine. 1,752,949; Apr. 1.
Hirschner, Karl, assignor to the firm Schmidt & Melmer, Weidenau-on-the-Sieg, Germany. Refuse-handling apparatus. 1,752,950; Apr. 1.
Hoag, Charles I., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Sawing machine. 1,752,487; Apr. 1.
Hoche, Adam, assignor to Litmo Adhesive & Products Company, Lynn, Mass. Moldable composition. 1,753,010; Apr. 1.
Hocking Glass Company, The. (See Barbiers, Ferdinand S., assignor.)
Hoe, R., & Co. (See Lamatsch, Frederick, assignor.)
Hoffmann, Otto, Woodhaven, assignor to Art Fixtures, Inc., New York, N. Y. Strap for lighting fixtures or similar articles. Des. 80,837; Apr. 1.
Hoffmann, Otto, Woodhaven, assignor to Art Fixtures, Inc., New York, N. Y. Corner ornament for lighting fixtures or similar articles. Des. 80,838; Apr. 1.
Hofmann, Fritz. (See Ossanna, J., Graner, and Hofmann.)
Hohn, Max P. E., assignor to the firm "Universelle" Cigarettenmaschinenfabrik J. C. Muller & Co., Dresden, Germany. Means for counter rolling a cigarette paper. 1,752,340; Apr. 1.
Hohn, Max P. E., assignor to the firm "Universelle" Cigarettenmaschinenfabrik J. C. Muller & Co., Dresden, Germany. Sharpening-roller arrangement for the revolving sickle knives in cigarette-rod machines. 1,752,341; Apr. 1.
Höhne, Wilhelm, Berlin-Charlottenburg, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Tubular postal section. 1,753,169; Apr. 1.
Holdeman, Harry R., assignor to J. M. Feldman Co. Inc., Los Angeles, Calif. Panel for lighting fixtures or similar articles. Des. 80,839; Apr. 1.
Hollenbeck, Harold W., Kirkland, assignor to Durable Mat Company, Seattle, Wash. Fexible mat. 1,752,846; Apr. 1.
Hollindale, Wilfred H., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Window-regulator handle or the like for an automotive vehicle. Des. 80,840; Apr. 1.
Hollingsworth, Ira M. (See Hollingsworth, Valorus S., assignor.)
Hollingsworth, Valorus S., assignor of one-half to I. M. Hollingsworth, Los Angeles, Calif. Windmill. 1,752,847; Apr. 1.
Holmes, Daisy N., executrix. (See Holmes, William T.)
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Let-off mechanism for looms. 1,752,488; Apr. 1.
Holmes, William T., deceased; D. N. Holmes, executrix, assignor to Monitor Controller Company, Baltimore, Md. Electric-motor starter. 1,753,116; Apr. 1.
Hoover, Charles P., Columbus, Ohio, and F. A. Downes, New York, N. Y. Agitation and settling process. 1,752,795; Apr. 1.
Hormes, William T., Baltimore, Md. Display rack. 1,752,595; Apr. 1.
Horton Manufacturing Company, The. (See Thorpe, S. T., and Peterson, assignors.)
Hortvet, Richard M., assignor to Mahr Manufacturing Company, Minneapolis, Minn. Rotary forging furnace. 1,752,433; Apr. 1.
Hösel, Paul, Charlottenburg, Germany, assignor to General Electric Company. Balanced valve. 1,752,908; Apr. 1.
Hosking, Robert, Berkley, Va. Signal device. 1,753,117; Apr. 1.
Howaldtswerke Aktiengesellschaft. (See Degn, Paul, assignor.)
Howard, Albert L., Hollis, Alaska. Flotation machine. 1,752,434; Apr. 1.
Howard, Albert P., Norwalk, Ohio. Measuring device. 1,752,527; Apr. 1.
Howard, James J., Stamford, Conn. Piston ring. 1,752,848; Apr. 1.
Howe, James M., assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Automobile bumper. 1,752,381; Apr. 1.
Howe Scale Company, The. (See Starr, Morton H., assignor.)
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Picture-projecting machine. 1,752,951; Apr. 1.
Howie, John L., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Variable resistance. 1,753,188; Apr. 1.
Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Loud-speaker. 1,752,909; Apr. 1.
Hubbard, Francis A., Teaneck, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for comparing and adjusting the electrical length of paths for the transmission of electrical energy. 1,752,528; Apr. 1.
Hubert, Emil, Alexander Röst-Grande, and E. Correns, Elberfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Replacing the water in a water-moist cellulose by an organic liquid and the product thereof. 1,752,596; Apr. 1.
Hudson, George, Boongalle, Merbein South, Victoria, Australia. Tractor plow. 1,752,849; Apr. 1.
Hudson-Sharp Machine Company. (See Campbell, Samuel J., assignor.)
Huffman, James C., Battle Creek, Mich. Display rack. 1,752,935; Apr. 1.
Hughes, Robert H. S., Baltimore, Md. Stoker attachment. 1,753,050; Apr. 1.
Hunkle, Rene. (See Glueck, John, assignor.)

Hunter, Ralph, New York, assignor to Hall, Hartwell & Co. Inc., Troy, N. Y. Collar. 1,752,796; Apr. 1.
Hurd, Charles B., Santa Ana, Calif. Cupboard latch. 1,752,559; Apr. 1.
Hutchings, Joseph L., Olean, N. Y. Valve. 1,752,667; Apr. 1.
Hutchings, Le Roi E., Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Vertical record file. 1,752,300; Apr. 1.
Hutchinson, Edward, jr., Philadelphia, Pa., assignor, by mesne assignments, to Saftigard-Nudriaire, Inc., Wilmington, Del. Drying cabinet. 1,752,797; Apr. 1.
Hutton, Edward S., Miami, Fla. Backing stop for vehicles. 1,752,435; Apr. 1.
Hydro-Check Corporation, The. (See Ackerman, E. W., and Nicholson, assignors.)
Hyman, Henry. (See Rothenberg, H., and Henken, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Hubert, E., Röst-Grande, and Correns, assignors.)
Ice Cream Smack Corporation. (See Myers, W. R., and Opitz, assignors.)
Imperial Brass Manufacturing Company, The. (See Dobrick, August C., assignor.)
Ingersoll-Rand Company. (See Armstrong, Lloyd Van H., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Thomas, Floyd H., assignor.)
Intercontinental Rubber Company. (See Spence, David, assignor.)
International Motor Company. (See Queeney, Frank E., assignor.)
International Time Recording Company of New York. (See Bryce, James W., assignor.)
Internationale Siegwartbalkengesellschaft in Luzern. (See Zehnder, Paul, assignor.)
Israel, Sidney, Houston, Tex. X-ray centering device. 1,753,151; Apr. 1.
Izumi, Torazo, Tokyo, Japan. Device for manufacturing a tape having braid-like wrinkles or plaits from solidifiable viscous solution. 1,752,636; Apr. 1.
Jackson Boilers Limited. (See Hargreaves, Harold, assignor.)
Jackson, Edwin, Indianapolis, Ind. Hub structure for pneumatic wheels. 1,752,740; Apr. 1.
Jackson, Maunsell B., Toronto, Ontario, Canada. Vegetative device. 1,752,597; Apr. 1.
Jackson, William. (See Rowley, C. D., and Jackson.)
Jacobsohn, Isadore M., Chicago, Ill., and S. Truscott, Birmingham, Ohio. Aircraft covering. 1,752,637; Apr. 1.
Jacobson, David L., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process. 1,752,382; Apr. 1.
Jaeger, Maximilian, jr., St. Albans, N. Y. Wall construction and structural unit therefor. 1,752,342; Apr. 1.
Jagschitz, Konrad, Mainz, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany. Gas reservoir. 1,752,383; Apr. 1.
Jameson, Thomas, assignor to The Gilchrist Company, Newark, N. J. Ice-cream disher. 1,752,560; Apr. 1.
Jamison, William F., Los Angeles, Calif. Hypodermic syringe. 1,752,384; Apr. 1.
Jay, Charles B. (See Stevens, W. E., and Jay.)
Jeandheur, George E., Great Neck, N. Y. Weather stripping. 1,752,990; Apr. 1.
Jelinek, Rudolph, Chicago, Ill. Display device. 1,752,952; Apr. 1.
Johansson, Sven A. F., and A. O. Dahlström, Stockholm, Sweden. Controlling pressure gauge. 1,753,118; Apr. 1.
Johnson, Alfred A., Sacramento, Calif. Automatic hydraulic transmission. 1,752,385; Apr. 1.
Johnson, Alfred E., assignor to The Weepah Manufacturing Corporation, Denver, Colo. Slug eliminator for vending machines. 1,752,798; Apr. 1.
Johnson, Edward, Oakland, Calif. Key duplicator. 1,752,668; Apr. 1.
Johnson, George T., and H. W. Stertsbach, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Bolster. 1,752,741; Apr. 1.
Johnson, Joseph B., Alfalfa, Okla. Four-wheeled-trailer hitch. 1,752,638; Apr. 1.
Johnson, Lloyd E. (See Sparks, W., and Johnson.)
Johnson, Maud B. (See Belcher, Gertrude, assignor.)
Johnson, Roy W. (See Gauger, F. A., and Johnson.)
Johnson, Wilfred G., assignor to The Colson Company, Elyria, Ohio. Caster. 1,752,742; Apr. 1.
Johnson, Wilfred G., assignor to The Colson Company, Elyria, Ohio. Caster. 1,753,183; Apr. 1.
Jolly, James, Deane, Bolton, England. Ring spinning and doubling frame. 1,753,119; Apr. 1.
Jones, Elmore D. (See Jones, Winfield S., assignor.)
Jones, Frank S., Seattle, Wash. Electrical circuit. 1,752,639; Apr. 1.
Jones, William L. M., Winnipeg, Manitoba, Canada. Shocker. 1,752,301; Apr. 1.
Jones, Winfield S., Brea, assignor of fifty per cent to E. D. Jones, Long Beach, Calif. Fishing tool. 1,752,669; Apr. 1.
Jongedyk, Ralph, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wrapping apparatus. 1,752,489; Apr. 1.
Jonson, John G., Seattle, Wash. Building window frame. 1,753,152; Apr. 1.
Jorgensen, Edmund N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric welding. 1,752,598; Apr. 1.
Junkers, Hugo. (See Zindel, Ernst, assignor.)
Junkers, Hugo, Dessau, Germany. Riveting device. 1,752,799; Apr. 1.
Junkers, Hugo, Dessau, Germany. Assembly unit. 1,753,051; Apr. 1.
K-P-C Company. (See Day, Alva G., assignor.)
Kähne, Ernst, assignor to Theodor Kähne & Söhne, Rathenow, Germany. Manufacturing spectacle frames from tortoise shell and similar valuable material. 1,752,958; Apr. 1.
Kähne, Theodor, & Söhne. (See Kähne, Ernst, assignor.)
Kall, Myrtle L., Alexandria Bay, N. Y. Window fixture. 1,752,743; Apr. 1.
Kämmerer, Hans, Mannheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyestuffs containing chromium. 1,753,120; Apr. 1.
Kann, Louis J., Cleveland, Ohio. Worker's lamp. 1,752,343; Apr. 1.
Kappel, Adolph, Brooklyn, N. Y. Clothesline pulley. 1,753,084; Apr. 1.
Karcher, John C., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Changing the properties of silicon steel. 1,752,490; Apr. 1.
Karfiol, Edward, Brooklyn, N. Y. Dolly. Des. 80,841; Apr. 1.
Karg, Rudolf, and J. Weiss, Lucerne, Switzerland. Producing insulating sheets. 1,752,561; Apr. 1.
Kari-Keen Manufacturing Company. (See Wilson, William W., assignor.)
Karlslyst, Oscar, Sacramento, Calif. Screen and window. 1,752,640; Apr. 1.
Karsten, Karl G., New York, N. Y. Radio program detector. 1,752,302; Apr. 1.
Kass, Samuel M., Philadelphia, Pa. Safety stand for use with gas stoves. 1,752,562; Apr. 1.
Kastenhuber & Lebrfeld. (See Woodward, John E., assignor.)
Kay, L. D. (See Harrison, Arthur W., assignor.)
Kehler, Adele W., San Francisco, Calif. Combination tray. Des. 80,842; Apr. 1.
Kelley, Edward W. (See Weaver, G. E., and Kelley.)
Kelley, Leo A., Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Interference neutralizer for alternating-current telegraph systems. 1,752,303; Apr. 1.
Kelley, Leo A., Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Reduction of atmospheric interference. 1,752,844; Apr. 1.
Kelley, Leo A., Elmhurst, N. Y., assignor to American Telephone and Telephone Company. Reduction of atmospheric disturbance. 1,752,845; Apr. 1.
Kellogg Switchboard and Supply Company. (See Grout, Martin B., assignor.)
Kellogg Switchboard and Supply Company. (See Howie, John L., assignor.)
Kelly, Leo A., Elmhurst, N. Monk, New York, N. Y., and V. P. Thorp, River Edge, N. J., assignors to American Telephone and Telegraph Company. Interference neutralizer for alternating-current telegraph systems. 1,752,846; Apr. 1.
Kemp, C. M., Mfg. Co., The. (See Kemp, William W., assignor.)
Kemp, William W., assignor to The C. M. Kemp Mfg. Co., Baltimore, Md. Muffle furnace and operating the same. 1,752,800; Apr. 1.
Ken Wel Sporting Goods Co. (See Dieterle, Frank, assignor.)
Kent, George P., Grove Park, London, England. Device for carrying maps. 1,752,910; Apr. 1.
Kerr, Robert M., assignor to Detroit Dental Manufacturing Company, Detroit, Mich. Mixing bowl. 1,753,121; Apr. 1.
Kielsmeier, Reuben, Baldwin Park, Calif. Water fountain. 1,753,122; Apr. 1.
Kimball, A., Company. (See Pope, Paul M., assignor.)
Kincaid, Jesse B. (See Prange, Maurice N., assignor.)
Kindervater, Julius, Brooklyn, N. Y. Locomotive connecting rod. 1,752,954; Apr. 1.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company. Sheet-feeding machine. 1,752,744; Apr. 1.
Kingman, Russell B., Orange, assignor to Metal Textile Corporation, West Orange, N. J. Heat-absorbing medium. 1,752,670; Apr. 1.
Kingsport Press, Inc. (See Smith, Walter F., assignor.)
Kinkead, Fullerton S., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph repeating system. 1,752,486; Apr. 1.
Kitching, Cyrus, Chicago, Ill. Tone-producing triangle. 1,752,529; Apr. 1.
Kivley, Ray C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Braiding machine. 1,752,487; Apr. 1.
Kjellgren, Bengt R. F., Cleveland, Ohio. Treating aluminous materials for the production of aluminum sulphate and alumina therefrom. 1,752,599; Apr. 1.
Kjellgren, Bengt R. F., Cleveland, Ohio. Treating aluminous materials. 1,752,641; Apr. 1.

Klaiber, Edward C., Memphis, Tenn., assignor to National Washboard Company, Chicago, Ill. Washboard. 1,752,745; Apr. 1.
Kleinheksel, Frank. (See Becker, C. and Kleinheksel.)
Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
Klinger, James D., and C. L. Boyle, Detroit, Mich. Composition for and process of cleaning metal. 1,752,746; Apr. 1.
Knight, Herbert M., Montclair, N. J. Structural element. 1,752,671; Apr. 1.
Kochendoerfer, Gerd, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Introduction of iodine into pyridine derivatives. 1,753,170; Apr. 1.
Kochs, Theo. A., Company. (See Haerman, Maximillian C., assignor.)
Kohout, George A., Chicago, Ill. Power-feed stoker. 1,752,801; Apr. 1.
Kolm, Ludwig, Berlin, Germany, assignor to Aktiengesellschaft "Kolmag," Glaris, Switzerland. Apparatus for the winding of endless bands. 1,753,153; Apr. 1.
Kopellowitsch, Jakok, Baden, and J. Stoeckiin, Zurich, assignors to A. G. Brown Boveri & Cie., Baden, Switzerland. Apparatus for detecting grounds. 1,752,991; Apr. 1.
Koppers Company, The. (See Becker, J., and Van Ackeren, assignors.)
Koppers Company, The. (See Jacobson, David L., assignor.)
Korn, Franklin A., Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,752,438; Apr. 1.
Kottusch, Emil, Detroit, Mich. Piston. 1,752,672; Apr. 1.
Kovac, Stephen. (See Friedman, B. L., and Kovac.)
Kovats, John, Bridgeport, Conn. Folding table. 1,752,304; Apr. 1.
Kranz, Harry W., assignor, by mesne assignments, to The Cleveland Welding Company, Cleveland, Ohio. Disk wheel. 1,752,992; Apr. 1.
Krebs, Edouard, Oslo, Norway. Cell for electrolyzing solutions of alkali chlorides. 1,753,123; Apr. 1.
Krell, Otto, Berlin-Dahlem, Germany. Hangar for airships. 1,752,911; Apr. 1.
Krem-Ko Company. (See Gallagher, George F., assignor.)
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, minn. Pencil tip. 1,752,563; Apr. 1.
Kronquest, Alfred L., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Can-closing machine. 1,752,912; Apr. 1.
Krumm, William L., Chicago, Ill. Box. Des. 80,843; Apr. 1.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,752,491; Apr. 1.
Kurtz, Thomas N. (See Loftus, F. H., and Kurtz.)
Kyrides, Lucas P., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Making quinaldine. 1,752,492; Apr. 1.
Ladd, George T., Pittsburgh, Pa., assignor to Ladd Water Tube Boiler Company, New York, N. Y. Waste-heat boiler. 1,752,673; Apr. 1.
Ladd Water Tube Boiler Company. (See Ladd, George T., assignor.)
Lahay, Dell J., Carney, Mich. Roundabout. 1,752,600; Apr. 1.
Lake, James, jr., Brooklyn, N. Y. Hat. 1,753,052; Apr. 1.
Lamatsch, Frederick, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Edition-printing slug holder and depressible margin bar. 1,752,565; Apr. 1.
Land, Charles H., assignor of one-half to W. H. Wilson, Detroit, Mich. Tractor trailer. 1,753,011; Apr. 1.
Lang, Theo, Munich, assignor to the firm Hans Trinkl Uhren- und Apparatefabrik G. m. b. H., Augsburg, Bavaria, Germany. Cartridge cut-out. 1,752,955; Apr. 1.
Langtin, John S. (See Blette, Henry C., assignor.)
Lappin, Michael T., New York, N. Y. Check protector. 1,752,674; Apr. 1.
Larner, Chester W., Philadelphia, Pa., assignor to I. P. Morris and De La Vergne, Inc. Sleeve valve. 1,752,489; Apr. 1.
Larsen, Arnold L. (See Colby, F. B., and Larsen.)
Larsen, Louis H., Union City, N. J., and C. W. Nixon, New York, N. Y. Handle-arresting mechanism for coin-controlled machines. 1,752,643; Apr. 1.
Larsen, Louis H., Union City, N. J., and S. C. McKeown, Mount Vernon, assignors to Nixon Vending and Change Making Machines, Inc., New York, N. Y. Transmission mechanism for vending or like machines. 1,752,642; Apr. 1.
Larson, Oscar E., assignor to The Hermann Manufacturing Company, Lancaster, Ohio. Kiln roller. 1,752,675; Apr. 1.
Latorraca, Giuseppe. (See Antizzo, G., and Latorraca.)
Lauro, Joseph, South Miami, assignor of one-half to R. Ragozzino, Miami, Fla. Automobile tire lock. 1,753,124; Apr. 1.
Lautenschläger, Carl L., Frankfort-on-the-Main, and M. Bockmühl and R. Schwabe, Hochst-on-the-Main, and Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Solution of medicament and preparing same. 1,752,805; Apr. 1.
Lavarack, Frederick C., Montclair, N. J., and D. W. Richards, Roanoke, Va. Railway signaling. 1,752,493; Apr. 1.
Layng, Henry G., deceased, Chicago, Ill., by R. A. Layng, Brooklyn, N. Y., executrix. Coal-briquette machine. 1,752,644; Apr. 1.
Layng, Rosa A., executrix. (See Layng, Henry G.)
Layton, Harry B., assignor to G. W. Baker Machine Company, Wilmington, Del. 1,752,440. Apr. 1.
Lederer, Ernest A., East Orange, N. J., assignor to Westinghouse Lamp Company. Electron-discharge device and getter therefor. 1,752,747; Apr. 1.
Lederer, Ernest A., East Orange, N. J., assignor to Westinghouse Lamp Company. Prevention of electrical leakage. 1,752,748; Apr. 1.
Lederman, Max, New York, N. Y. Garter. 1,753,125; Apr. 1.
Lee, Frank N., Dupont, Ga. Convertible auto seat. 1,752,441; Apr. 1.
Lee, Hannah H., assignor of one-third to F. R. Markert, St. Paul, Minn. Window ventilator. 1,752,913; Apr. 1.
Lehman, Max. (See Nagle, W. G., and Lehman.)
Lehon Company, The. (See Moone, Albert E. F., assignor.)
Leibe, Frank A., Dunellen, N. J., assignor to American Telephone and Telegraph Company. Reduction of atmospheric disturbance. 1,752,847; Apr. 1.
Leibe, Hugo, Baltimore, Md. Cork-filled fabric and making same. 1,752,914; Apr. 1.
Leiman, Henry, Tampa, Fla. Wooden cigar box. 1,752,601; Apr. 1.
Letreux, Albert, Constantine, Algeria. Apparatus for automatically counting the volumes of granulous materials passing through the same. 1,752,602; Apr. 1.
Leven, Albert H., Newark, N. J., assignor to De Luxe Metal Furniture Company. Bracket for cabinets. 1,753,012; Apr. 1.
Levy, Stanley I., London, England. Electrolysis of ferrous chloride. 1,752,348; Apr. 1.
Lex, Rudolf, assignor of one-half to K. Zeyen, Cologne, Germany. Apparatus for spraying pulverulent material. 1,752,956; Apr. 1.
Ligon, Arthur L., Fort Stockton, Tex. Guide device. 1,753,126; Apr. 1.
Lilleberg, Tideman M., assignor to The Nye Tool & Machine Works, Chicago, Ill. Thread-cutting device 1,752,915; Apr. 1.
Linaker, Frederick W., and T. M. Bruback, Du Bois, Pa. Fittings and pipe system for soot cleaners. 1,752,442; Apr. 1.
Lindegren, Carl J., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Steel lay brace. 1,752,443; Apr. 1.
Lindmark, Elmer S., New York, N. Y. Conductor-holding clip. 1,753,013; Apr. 1.
Lindstrom, Albert F. (See Hageman, A. M., and Lindstrom.)
Linke, Oscar W. (See Stelert, A. F., and Linke.)
Lionel Corporation, The. (See Caruso, Louis, assignor.)
Lionne, Ernest, Swampscott, Mass. Paper and paper making. 1,752,802; Apr. 1.
Litmo Adhesive & Products Company. (See Hoche, Adam, assignor.)
Liverance & Van Antwerp. (See Hammers, William J., assignor.)
Livesay, Robert C., assignor to Deere & Company, Moline, Ill. Scraper for harvester main wheels. 1,752,993; Apr. 1.
Loeb, Laurence F. (See Wreschner, M., and Loeb.)
Loewy, Raymond G. F., Jackson Heights, N. Y. Combined automobile body and hood. Des. 80,844; Apr. 1.
Loftus, Fred H., Aliquippa, and T. N. Kurtz, Pittsburgh, Pa. Checkerwork for furnaces. 1,752,494; Apr. 1.
Logan, Waldo H., et al. (See Hatfield, Frank A., assignor.)
Logue, Charles H., Syracuse, N. Y., assignor of one-half to C. O. Hersam, Philadelphia, Pa. Gear-testing machine. 1,753,014; Apr. 1.
Lohrman, Thomas P., Detroit, Mich. Construction of closed vehicle bodies. 1,753,172; Apr. 1.
Loitsch, Cahrles, New York, N. Y. Grand-piano body construction. 1,752,676; Apr. 1.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,845; Apr .1.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,846; Apr. 1.
Long, Riley E., Clark, Va. Holder. 1,752,645; Apr. 1.
Loomis, Nathaniel E., Westfield, N. J., assignor to Standard Oil Development Company. Treating oils with finely-divided solid material. 1,753,171; Apr. 1.
Lorber, Charles, Bloomfield, N. J. Key case. 1,752,444; Apr. 1.
Love, William J., jr., Piqua, assignor of one-fifth to R. W. Carnahan, Dayton, Ohio. Recording time and period values. 1,752,564; Apr. 1.
Lovekin, Luther D., Wynnewood, Pa. Automatic gas-shut-off valve. 1,752,677; Apr. 1.
Ludwig, Willi, Hochst-on-the-Main, and O. Schaumann, Wiesbaden, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Solution of the active principle from animal organs and preparing the same. 1,752,916; Apr. 1.
Lueck, George A., Milwaukee, Wis. Heating and humidifying system for food carts. 1,752,749; Apr. 1.
Lukasczyk, Jakob, Rosenberg, Oberpfalz, Germany. Apparatus for strengthening the heads of railway rails. 1,752,646; Apr. 1.

Lukens, Alan R., Wyoming, assignor to The Richardson Company, Lockland, Ohio. Dielectric substance. 1,752,917; Apr. 1.

Lynn, John S., assignor to The Vesuvius Corporation, Los Angeles, Calif. Pressure lubricating apparatus. 1,752,530; Apr. 1.

Lyon Metal Products, Incorporated. (See Vance, Walter N., assignor.)

Lyons, J., and Company. (See Coyte, William A., assignor.)

Lytle, Arthur R., Flushing, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc. Nonferrous welding rod. Re17,631; Apr. 1.

MacChesney, Chester M., and R. H. Norton, assignors to Acme Steel Company, Chicago, Ill. Strap-stretching device. 1,752,495; Apr. 1.

Mackie, James, and Sons, Limited. (See Mackie, John P., assignor.)

Mackie, John P., assignor to James Mackie and Sons, Limited, Belfast, Ireland. Doffing mechanism for spinning, twisting, and like machines. 1,752,678; Apr. 1.

Macklin, Are L., Detroit, Mich. Electric toy. 1,753,127; Apr. 1.

Mahan, Joseph R., and J. B. Picard, assignors to The National Supply Company, Toledo, Ohio. Jack frame for well pumps. 1,752,647; Apr. 1.

Mahler, Johann, assignor to the firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Fuel pump for multicylinder internal-combustion engines. 1,752,386; Apr. 1.

Mahr Manufacturing Company. (See Hortvet, Richard M., assignor.)

Maier, Charles E., Newark, N. J. Decorative wall structure. 1,752,679; Apr. 1.

Mallory, Marion, Toledo, Ohio. Current controller for engine ignition systems. 1,752,445; Apr. 1.

Malloy, Howard, Alma, Mich. Piston. 1,752,984; Apr. 1.

Malm, Frank S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Composition of matter and its preparation. 1,752,531; Apr. 1.

Malsbary, Job F., Fresno, Calif. Electrical thermostat. 1,752,532; Apr. 1.

Mann, Edgar. (See Turner, J. W., Wood, and Mann.)

Marathon Electric Company. (See Gilburg, Roy O., assignor.)

Marcus, Charles, New York, assignor to Eclipse Machine Company, Elmira Heights, N. Y. Ignition system. 1,752,918; Apr. 1.

Markert, Frances R. (See Lee, Hannah H., assignor.)

Marquette Tool & Mfg. Company. (See Rode, Fredrich J., assignor.)

Marr, Arthur P. (See Marr, George M. and A. P.)

Marr, George M., New York, and A. P. Marr, Brooklyn, N. Y. Fire-detecting apparatus. 1,752,496; Apr. 1.

Marshutz, Siegfried G., and P. Sockett, assignors to The Atlas Leather Products Corporation, Los Angeles, Calif. Case and container. 1,753,054; Apr. 1.

Marson, Clifford J., assignor to The Standard Manufacturing Company, Cambridge City, Ind. Folding chair. 1,752,306; Apr. 1.

Marti, Fritz, La Chaux-de-Fonds, Switzerland. Electromagnetic impulse timepiece. 1,752,446; Apr. 1.

Martin, Karl, and P. Tietze, Rathenow, Germany. Optical means for producing color cinematographic pictures. 1,752,680; Apr. 1.

Martus, Martin L., Woodbury, Conn. Headless set screw. 1,753,154; Apr. 1.

Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Mahler, Johann, assignor.)

Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Pielstick, Gustav, assignor.)

Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Riehm, Wilhelm, assignor.)

Maschinenfabrik Augsburg-Nuernberg A. G. (See Jagschitz, Konrad, assignor.)

Mason, Wesley W., Baltimore, Md. Bottle closure. 1,752,603; Apr. 1.

Massingham, Henry R., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for producing electrical cables. 1,752,497; Apr. 1.

Massingham, Henry R., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-feeding apparatus. 1,752,604; Apr. 1.

Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,752,498; Apr. 1.

Matheson, Roy, Hollis, Okla. Knee pad. 1,753,055; Apr. 1.

Matthews, Louis L., assignor to C. B. Maxson and J. W. Maxson, Westerly, R. I. Feeding and stacking machine. 1,752,648; Apr. 1.

Mattison, Richard V., Ambler, Pa., assignor to Ambler Asbestos Company. Plastic article. 1,752,307; Apr. 1.

Maus, George H., Amsterdam, N. Y. Rake. 1,752,447; Apr. 1.

Maxson, Charles B., et al. (See Matthews, Louis L., assignor.)

Maxson, Charles B., assignor of one-half to J. W. Maxson, Westerly, R. I. Feeding and stacking method and machine. 1,752,681; Apr. 1.

Maxson, Julian W., et al. (See Matthews, Louis L., assignor.)

Maxson, Julian W. (See Maxson, Charles B., assignor.)

Maxwell, Francis, Wallington, England. Cane mill. 1,752,533; Apr. 1.

Mayer, Henry K. (See McSpadden, Walker B., assignor.)

McCabe, Ira E., Chicago, Ill. Electrical connection. 1,752,957; Apr. 1.

McCartney, Will C., Cambridge, Ohio. Candy dish or similar article. Des. 80,847; Apr. 1.

McCartney, Will C., Cambridge, Ohio. Glass bowl or similar article. Des. 80,848; Apr. 1.

McClary, Archie W., Oakland, assignor to Welding Service Inc., San Francisco, Calif. Rail joint. 1,752,566; Apr. 1.

McCleave, Thomas J., San Diego, Calif. Advertising apparatus. 1,752,919; Apr. 1.

McClelland Casket Hardware Company. (See Utter, Bror A., assignor.)

McCloskey, Gregory E., South Orange, N. J., assignor to The Barrett Company, New York, N. Y. Electrical precipitator. 1,752,920; Apr. 1.

McConnell, Grant W., Dorset, Ohio. Roller attachment. 1,752,082; Apr. 1.

McCullough, Peter A., Pittsburgh, Pa. Cutting laminated glass. 1,752,567; Apr. 1.

McGrath, John T., Bloomington, Ill. Pneumatic hammer. 1,752,448; Apr. 1.

McGregor, Alexander G., London, England. Precipitating system. 1,753,015; Apr. 1.

McHugh, Edward F., Kingston, Pa. Interlocking sill or jamb covering. 1,752,605; Apr. 1.

McHugh, Edward F., Kingston, Pa. Adjustable sill or jamb covering. 1,752,606; Apr. 1.

McIntosh, James, Norristown, Pa., assignor, by mesne assignments, to Continental-Diamond Fibre Company, Newark, Del. Phenol-carbohydrate resin and making same. 1,753,030; Apr. 1.

McKee, Garnet W., Rockford, Ill. Control device. 1,752,534; Apr. 1.

McKee, Ralph H., New York, N. Y. Recovering alkali. 1,753,128; Apr. 1.

McKeown, Samuel C. (See Larsen, L. H., and McKeown.)

McKown, Harry L., Wheeling, W. Va. Heating stove. 1,752,387; Apr. 1.

McLaughlin, William I., assignor to Standard Oil Company of California, San Francisco, Calif. Core drill and bit. 1,752,388; Apr. 1.

McSpadden, Walker B., assignor of one-half to H. K. Mayer, Fort Collins, Colo. Awning or curtain. 1,752,610; Apr. 1.

McWilliams, Robert H., Memphis, Tenn. Railroad system for levee constructing. 1,752,958; Apr. 1.

Mead, Edward S., Philadelphia, Pa. Central heating system. 1,752,684; Apr. 1.

Meagher, Joseph H., Rochester, N. Y. Socket block for poles. 1,752,683; Apr. 1.

Meath, Campbell A., Neodesha, Kans. Toilet seat. 1,752,499; Apr. 1.

Mekelburg, Earl F., assignor to Union Electric Manufacturing Company, Milwaukee, Wis. Electric switch. 1,753,016; Apr. 1.

Melone-Bovey Lumber Co. (See Greffin, Philipp, assignor.)

Menningen, Adolph C., West Allis, Wis. Vehicle headlight. 1,752,349; Apr. 1.

Mergott, J. E., Company. (See Hiering, William C., assignor.)

Merrow, Charles H., Brockton, Mass. Shoe welt. 1,753,056; Apr. 1.

Metal Textile Corporation. (See Kingman, Russell B., assignor.)

Meursing, A., et al. (See Friedländer, Daniel, assignor.)

Meyer, Julius A., St. Louis, Mo. Drum. 1,752,668; Apr. 1.

Michelin et Cie. (See Bourdon, Pierre M., assignor.)

Midgley, Thomas, Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Vulcanizing press. 1,752,569; Apr. 1.

Miller, George L., assignor to Faries Manufacturing Company, Decatur, Ill. Glass shade. Des. 80,849; Apr. 1.

Miller, George L., assignor to Faries Manufacturing Company, Decatur, Ill. Glass shade. Des. 80,850; Apr. 1.

Miller, Harold A., Ottawa, Ontario, Canada. Drinking-cup dispenser. 1,752,607; Apr. 1.

Miller, John S., jr., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa. Manufacture of bituminous emulsions. 1,752,449; Apr. 1.

Miller, Stuart P., Philadelphia, Pa., assignor to The Barrett Company. Process of and apparatus for polymerizing oils. 1,752,921; Apr. 1.

Millholland, James H., Philadelphia, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J. Continuous-roll label. 1,752,535; Apr. 1.

Mills, Chester B., Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc. Ship's whistle. 1,753,155; Apr. 1.

Mills, Fred L., Oak Park, assignor to Mills Novelty Company, Chicago, Ill. Vending machine. 1,752,750; Apr. 1.

Mills Novelty Company. (See Mills, Fred L., assignor.)

Mitchell, Arthur L., Dallas, Tex. Stationary water heater. 1,752,536; Apr. 1.

Mitchell, Courtney N., Cleveland, Ohio. Piston. 1,752,685; Apr. 1.

Mitchell, James C., assignor to C. E. Russell, Joplin, Mo. Advertising apparatus. 1,752,570; Apr. 1.

Molden, William M., assignor of one-half to E. C. Reid, Lake Charles, La. Detachable connection and clamp. 1,753,129; Apr. 1.

Monier, Francis, Neuilly-sur-Seine, France. Carburetor for internal-combustion engines. 1,752,959; Apr. 1.

Monitor Controller Company. (See Holmes, William T., assignor.)

Monitor Controller Company. (See Whittingham, George H., assignor.)

Monk, Newton. (See Kelley, L. A., Monk, and Thorp.)

Monogram Shop, The. (See Hill, Frederick H., assignor.)

Moone, Albert E. F., Chicago, Ill., assignor to The Lehon Company. Machine for making roofing and the like. 1,752,751; Apr. 1.

Morgal, John F., assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Floor polisher for vacuum cleaners. 1,752,803; Apr. 1.

Morgan Construction Company. (See George, Jerome R., assignor.)

Morris, I. P., and De La Vergne, Inc. (See Larner, Chester W., assignor.)

Morris, Marion C., Rosemary, N. C. Clamp. 1,753,057; Apr. 1.

Morrison, Bartholomew J., Baltimore, Md. Boiler. 1,752,389; Apr. 1.

Morrison, Charles S., Elkins Park, assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Toggle. 1,753,058; Apr. 1.

Moulton, Rollin H., Berwyn, Ill. Grease dispenser. 1,752,537; Apr. 1.

Moving Colour Signs Limited. (See Henderson, Jack D., assignor.)

Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,752,922; Apr. 1.

Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spray head. 1,752,923; Apr. 1.

Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spraying device. 1,752,924; Apr. 1.

Muller, George W., Washington, D. C. Base plate for railroad-track structures. 1,752,451; Apr. 1.

Muller, George W., Washington, D. C., assignor to Muller Railway Track Systems, Incorporated, Wilmington, Del. Rail and tie-plate fastener. 1,752,450; Apr. 1.

Muller Railway Track Systems, Incorporated. (See Muller, George W., assignor.)

Münchenhagen, Willy, Berlin-Tempelhof, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Multioffice telephone system. 1,752,500; Apr. 1.

Murray, Humphrey D., assignor of one-half to Norton and Gregory Limited, London, England. Production of photographic images. 1,753,059; Apr. 1.

Mutual Chemical Company of America. (See Tarr, Omar F., assignor.)

Myers, Cornelius T., Avenel, N. J. Magazine lubricating means for vehicle parts. 1,752,960; Apr. 1.

Myers, Hubert A., Toledo, Ohio. Accelerator control. 1,752,501; Apr. 1.

Myers, L. A., Jr., Inc. (See Myers, William L., assignor.)

Myers, William L., assignor to L. A. Myers, Jr., Inc., Newark, N. J. Buckle. Des. 80,851; Apr. 1.

Myers, Wilson R., and B. O. Opitz, Portland, Oreg., assignors, by mesne assignments, to Ice Cream Smack Corporation. Cylinder-forming machine. 1,752,995; Apr. 1.

Myerson, Simon, Cambridge, Mass. Artificial tooth. 1,752,538; Apr. 1.

Myerstuen, Andrew, Seattle, Wash. Ship's pilot ladder. 1,753,060; Apr. 1.

Nachtigal, Daniel, Hibbing, Minn. Collar button. 1,753,130; Apr. 1.

Nagel, George E., Columbus, Ohio. Mold. 1,753,061; Apr. 1.

Nagle, Baker Company. (See Nagle, W. G., and Lehman, assignors.)

Nagle, Edward, New Philadelphia, assignor of one-half to C. C. Davis, Uhrichsville, Ohio. Locomotive brake shoe. 1,752,686; Apr. 1.

Nagle, Walter G., Belleville, and M. Lehman, Quincy, Ill., assignors to Baker Nagle Company, Belleville, Ill. Heater. Des. 80,852; Apr. 1.

Nason, John R., Auburn, Me. Economiser. 1,752,452; Apr. 1.

National Aniline & Chemical Co. (See Kyrides, Lucas P., assignor.)

National Fire Proofing Company. (See Shipley, Roy A., assignor.)

National Recording Pump Company, The. (See Eickmeyer, Earl E., assignor.)

National Supply Company, The. (See Mahan, J. R., and Picard, assignors.)

National Tool and Metals, Inc. (See Ost, Frederick A., assignor.)

National Washboard Company. (See Klaiber, Edward C., assignor.)

Naugatuck Chemical Company, The. (See Owen, Allen F., assignor.)

Naumann, Theodore F., Pawtucket, R. I., assignor to Seekouk Lace Company. Thread cutter. 1,752,611; Apr. 1.

Neitzel, Conrad T., Dallas, Tex., assignor, by mesne assignments, to H. Oliver, Little Rock, Ark. Bottle container. 1,752,502; Apr. 1.

Nelson, Albin J., Brooklyn, N. Y. Temperature regulator. 1,752,390; Apr. 1.

Nelson, Herman, Corporation, The. (See Otis, Gerald E., assignor.)

Nelson, Martin L., Park Ridge, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Multioffice telephone system. Re17,632; Apr. 1.

New Haven Clock Co., The. (See Porter, Wilson E., assignor.)

Newhouser, Mary V., Andarko, Okla. Clothes car. 1,752,687; Apr. 1.

New Idea Spreader Company, The. (See Oppenheim, Theodore H., assignor.)

New York Air Brake Company, The. (See Campbell, Charles A., assignor.)

Niagara Machine and Tool Works. (See Hahnemann, Paul R., assignor.)

Nichols, Edgar B., and U. G. Todd, assignors to The Pfaudler Co., Rochester, N. Y. Liquid-processing apparatus. 1,753,062; Apr. 1.

Nicholson, Griffith C. (See Ackerman, E. W., and Nicholson.)

Nicholson, Stanley W., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Window regulator. 1,752,688; Apr. 1.

Nicolet, Walter, Leipzig, Germany. Loom. 1,752,804; Apr. 1.

Niedomanski, George G., Washington, D. C. Corn shaver. 1,753,086; Apr. 1.

Nitzsche, Fritz, Karlsruhe, Germany. Concrete foot for wooden poles. 1,753,063; Apr. 1.

Nixon, Clifton W. (See Larsen, L. H., and Nixon.)

Nixon, Clifton W., New York, N. Y. Coin-controlled mechanism. 1,753,087; Apr. 1.

Nixon, Clifton W., New York, N. Y. Vending apparatus. 1,753,088; Apr. 1.

Nixon, Clifton W., New York, N. Y. Controlling mechanism for dispensing machines. 1,753,091; Apr. 1.

Nixon, Clifton W., New York, N. Y. Handle-controlled slot closure. 1,753,092; Apr. 1.

Nixon, Clifton W., assignor to Nixon Vending and Change Making Machines, Inc. New York, N. Y. Control mechanism for coin-controlled machines. 1,753,089; Apr. 1.

Nixon, Clifton W., assignor to Nixon Vending and Change Making Machines, Inc., New York, N. Y. Vending and change-making machine. 1,753,090; Apr. 1.

Nixon Vending and Change Making Machines, Inc. (See Fonda, Douglass C., assignor.)

Nixon Vending and Change Making Machines, Inc. (See Larsen, L. H., and McKeown, assignors.)

Nixon Vending and Change Making Machines, Inc. (See Nixon, Clifton W., assignor.)

Noble, Olbert C., assignor to Tygart Valley Glass Company, Washington, Pa. Bottle. Des. 80,853; Apr. 1.

No-Greef Products, Incorporated. (See Farr, Alfred C., assignor.)

Noguchi, Shuhei, Stamford, Conn. Shipping tag. 1,752,539; Apr. 1.

Noirot, Leo F. and O. G., and G. C. Rupert, Peoria, Ill. Radioantenna. 1,752,925; Apr. 1.

Noirot, Otto G. (See Noirot, Leo F. and O. G., and Rupert.)

Nonnenman, William, St. John, New Brunswick, Canada. Electrical plug and socket. 1,753,064; Apr. 1.

Nordgran, James C., Salt Lake City, Utah, assignor, by mesne assignments, to C. A. Harth, The Dalles, Oreg. Automobile or highway signal. 1,752,805; Apr. 1.

Northern Aerial Minerals Exploration Ltd. (See Cheesman, Silas A., assignor.)

Norton and Gregory Limited. (See Murray, Humphrey D., assignor.)

Norton, Ralph H. (See MacChesney, C. M., and Norton.)

Nye Tool & Machine Works, The. (See Lilleberg, Tideman M., assignor.)

O'Brien, John O. (See Thornton, John E., assignor.)

Ogden, J. Edward, Company. (See Ogden, Ralph E., assignor.)

Ogden, Ralph E., Mountainville, assignor, by mesne assignments, to J. Edward Ogden Company, New York, N. Y. Expansion shield. 1,752,752; Apr. 1.

Ohio Electric and Controller Company, The. (See Wertz, Roy O., assignor.)

Ohlson, Olof, West Newton, Mass. Method and tool for cleaning spinnerets. 1,752,689; Apr. 1.

Oil Devices Corporation. (See Breese, James L., jr., assignor.)

Oil Engine Development Company. (See Cummins, Clessie L., assignor.)

Okonite Company, The. (See White, Francis J., assignor.)

Olgay, Albert, Glen Ellyn, assignor to Gaw-O'Hara Envelope Company, Chicago, Ill. Enveloping machine. 1,752,608; Apr. 1.

Oliver, Edd C., Adrian, Mich. Universal grinder. 1,752,961; Apr. 1.

Oliver, Hogan. (See Neitzel, Conrad T., assignor.)

Olsen, Fredrick, East Alton, Ill., and C. J. Bain, Dover, N. J. Loading explosives. 1,752,391; Apr. 1.

Olson, Nicholay J. N., Minneapolis, Minn. Automobile camp shelter. 1,752,571; Apr. 1.

Olson, Samuel, & Company. (See Olson, Samuel, assignor.)

Olson, Samuel, Oak Park, assignor to Samuel Olson & Company, Chicago, Ill. Automatic counting and grouping mechanism for conveyers. 1,752,540; Apr. 1.
O'Neil, James A., Hanna, Wyo. Coal-loading device. 1,752,453; Apr. 1.
Opitz, Bernhard O. (See Myers, W. R., and Opitz.)
Oppenheim, Theodore H., assignor to The New Idea Spreader Company, Coldwater, Ohio. Transplanter. 1,753,017; Apr. 1.
Orbin, George, assignor of one-half to N. Franchetti, Smock, Pa. Resilient wheel. 1,753,131; Apr. 1.
Orr, Elijah C., assignor to Orr Saw Tooth Grinder Co., Seattle, Wash. Inserted-tooth saw. 1,752,541; Apr. 1.
Orr Saw Tooth Grinder Co. (See Orr, Elijah C., assignor.)
Ossanna, J., and H. Graner, Munich, and F. Hofmann, Munich-Talkircher, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. System of connections for compensating. 1,752,640; Apr. 1.
Ost, Frederick A., Inglewood, assignor, by mesne assignments, to National Tool and Metals, Inc., Torrance, Calif. Slot cutter. 1,752,690; Apr. 1.
Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Door mechanism. 1,752,806; Apr. 1.
Otis Elevator Company. (See Boedtcher, Frans A., assignor.)
Otis Elevator Company. (See Campbell, Chester C., assignor.)
Otis, Gerald E., assignor to The Herman Nelson Corporation, Moline, Ill. Heating and ventilating apparatus. 1,753,156; Apr. 1.
Otis, Gerald E., assignor to The Herman Nelson Corporation, Detroit, Mich. Heating and ventilating apparatus. 1,753,157; Apr. 1.
Otwell, Ralph B., assignor to Detroit Harvester Company, Detroit, Mich. Winch attachment for tractors. 1,752,962; Apr. 1.
Outing Manufacturing Company. (See Dewey, Clarence L., assignor.)
Overbury, Frederick C., Hillsdale, N. J., assignor to The Patent and Licensing Corporation, Boston, Mass. Method of and machine for edge-coating roofing elements. 1,752,454; Apr. 1.
Owen, Allen F., Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Treating vulcanized oils. 1,753,018; Apr. 1.
Owens Development Corporation. (See Owens, Freeman H., assignor.)
Owens, Freeman H., assignor to Owens Development Corporation, New York, N. Y. Optical printer. 1,752,753; Apr. 1.
Owens, John L. (See Owens, Robert J. and J. L.)
Owens, Robert J. and J. L., Minneapolis, Minn. Elevator leg. 1,752,612; Apr. 1.
Ozonide Corporation, The. (See Ramage, Alexander S., assignor.)
Pacific Knitting Mills, Inc. (See Ast, Carl O., assignor.)
Package Machinery Company. (See Smith, Elmer L., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Page, Edward B., Norwich, England. Brush-making machine. 1,752,926; Apr. 1.
Page, Fred'k, Contracting Company, The. (See Heitman, Herbert, assignor.)
Page, Harry W., Wauwatosa, Wis. Spraying liquids. 1,753,019; Apr. 1.
Pagel, Ernest C., Chicago, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company. Package. 1,752,996; Apr. 1.
Paget, Harold F., assignor to Haines Hosiery Mills, Inc., Philadelphia, Pa. Thread carrier. 1,752,754; Apr. 1.
Paper Service Company, The. (See Rowe, William W., assignor.)
Pardini, Julian A., San Francisco, and I. Andreotti, Nevada City, Calif. Demountable egg beater. 1,752,650; Apr. 1.
Park, Robert H., Scotia, N. Y., assignor to General Electric Company. Protection of electric systems. 1,752,807; Apr. 1.
Parker, Charles K., Richmond, assignor to Standard Oil Company of California, San Francisco, Calif. Apparatus for the lye treatment of petroleum oils. 1,752,850; Apr. 1.
Parker, Walter H. (See Townsend, W. S., and Parker.)
Parmley, Walter C., Upper Montclair, N. J. Pen. 1,752,392; Apr. 1.
Partlow, Howard W., Utica, N. Y. Release mechanism for fire extinguishers. 1,752,503; Apr. 1.
Patent and Licensing Corporation, The. (See Overbury, Frederick C., assignor.)
Payne, Thomas E., Toledo, Ohio. Crutch attachment. 1,753,065; Apr. 1.
Pease, John W., Rochester, N. Y. Fruit-paring machine. 1,752,997; Apr. 1.
Penrose, George G., Chicago, Ill. Packing carton. 1,752,504; Apr. 1.
Permutit Company, The. (See Green, Walter H., assignor.)
Person, Adolphe A., assignor of one-half to Elliston & Cavell Limited, Oxford, England. Wearing apparel. 1,752,927; Apr. 1.
Person, Harry J., & Son Incorporated. (See Person, Harry J., assignor.)
Person, Harry J., assignor to Harry J. Person & Son Incorporated, Lansing, Mich. Mausoleum construction. 1,752,572; Apr. 1.
Peterkin, Albert G., jr., Bryn Mawr, assignor to The Atlantic Refining Company, Philadelphia, Pa. Refining system. 1,752,455; Apr. 1.
Peters, Frank R. (See Roberts, M. H., and Peters.)
Peterson, Juel L., assignor to Rockford Drilling Machine Co., Rockford, Ill. Clutch. 1,753,085; Apr. 1.
Peterson, Nils P. (See Thorpe, S. T., and Peterson.)
Pettinelli, Parisino, Savona, Italy. Grid for chemical storage batteries. 1,752,963; Apr. 1.
Pettis, Clifton D., New York, N. Y. Apparatus for molding. 1,752,308; Apr. 1.
Pfaudler Co., The. (See Nichols, E. B., and Todd, assignors.)
Pfister, Karl H. T., Tacony, Pa., assignor to Rohm & Hass Company. Replacing halogen groups in organic compounds by amino groups. 1,752,998; Apr. 1.
Philips, William D., Brooklyn, N. Y. Air-lock and conveyer system. 1,753,158; Apr. 1.
Phillips, John H., Chicago, Ill. Anchoring device. 1,752,999; Apr. 1.
Photostat Corporation. (See Caps, Arthur W., assignor.)
Picard, John B. (See Mahan, J. R., and Picard.)
Pickett, Oliver B., Long Beach, Calif. Lawn edger. 1,752,505; Apr. 1.
Pieslstick, Gustav, assignor to Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Reversible internal-combustion engine of the fuel-injection type. 1,753,020; Apr. 1.
Pillatt, Christopher A., Joliet, Ill. Gate valve. 1,752,456; Apr. 1.
Pilliod Company, The. (See Purdy, Jay D., assignor.)
Pintel, Herman, Arlington, N. J. Clothes rack. 1,752,691; Apr. 1.
Piper, Harry D., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for heat-treating metals. 1,752,573; Apr. 1.
Piper, Walter F. (See Beardsley, E. O., and Piper.)
Pitt, William, Brooklyn, N. Y. Automatic variable-transmission mechanism. 1,752,755; Apr. 1.
Poole, Gerald A., and S. G. Forney, Fort Worth, assignors to Gulf Production Company, Houston, Tex. Formation sampler. 1,753,066; Apr. 1.
Pope, Paul M., assignor to A. Kimball Company, New York, N. Y. Printing chase. 1,753,173; Apr. 1.
Portail, Fernand C. F., assignor to Société Anonyme le Carbone, Gennevilliers, France. Carburation device. 1,752,506; Apr. 1.
Porter, Wilson E., assignor to The New Haven Clock Co., New Haven, Conn. Clock. 1,752,651; Apr. 1.
Porter, Wilson E., assignor to The New Haven Clock Co., New Haven, Conn. Clock. 1,752,652; Apr. 1.
Poynder, Herbert B., Newcastle-upon-Tyne, assignor to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Thermo-electrically-operated device for the protection of rotary dynamo-electric machines. 1,752,609; Apr. 1.
Prange, Maurice N., assignor to J. B. Kincaid, Detroit, Mich. Measuring device. 1,752,964; Apr. 1.
Prentice, George E., Berlin, Conn. Process of and blank for use in making sliders for separable fasteners. 1,752,928; Apr. 1.
Presto Primer and Reducing Valve Corporation. (See Anderson, Augustus L., assignor.)
Primos Lead Company. (See Smith, Walter C., assignor.)
Proctor & Schwartz, Incorporated. (See Morrison, Charles S., assignor.)
Proctor & Schwartz, Incorporated. (See Schwartz, W. M., Harrison, and Fagan, assignors.)
Proffen, Vladimir V., Seattle, Wash. Switch lock. 1,752,613; Apr. 1.
Purdy, Jay D., assignor to The Pilliod Company, Swanton, Ohio. Locomotive valve gear. 1,752,929; Apr. 1.
Quayle, Philip P., Chevy Chase, Md. Electric switch. 1,752,930; Apr. 1.
Queeney, Frank E., Teaneck, assignor to International Motor Company, New York, N. Y. Gas electric drive. 1,752,931; Apr. 1.
Quigan, Frank J., Jackson Heights, N. Y. Hand bag. Des. 80,870; Apr. 1.
Radio Corporation of America. (See Tennant, John W., assignor.)
Raffaelli Trading Co. (See Raffaelli, Viola, assignor.)
Raffaelli, Viola, New York, N. Y., assignor to Raffaelli Trading Co., Inc. Combined lamp base and body. Des. 80,854; Apr. 1.
Ragozzino, Raphael. (See Lauro, Joseph, assignor.)
Ramage, Alexander S., Detroit, Mich. Oxidized resin and making same. 1,752,693; Apr. 1.
Ramage, Alexander S., Detroit, Mich., assignor to The Ozonide Corporation. Production of gas and aromatic hydrocarbons from heavy hydrocarbon oils. 1,752,692; Apr. 1.
Rattray, Esther A. E. (See Stowell, Samuel N., assignor.)
Raule, Clifford T., Brookline, Pa. Drive for high-speed spindles. 1,752,542; Apr. 1.
Rawson, Ralph E., St. Louis, Mo. Toothbrush. 1,752,393; Apr. 1.
Ray, Arthur B., Bayside, and G. T. Felbeck, Mount Vernon, N. Y., assignors to Carbide and Carbon Chemicals Corporation. Recovery of adsorbable substances. 1,753,067; Apr. 1.

Reach, Milton B., Springfield, assignor to A. G. Spalding & Bros. Chicopee, Mass. Packaged inflated playing ball and making the same. 1,752,695; Apr. 1.
Reach, Milton B., assignor to Stopperless Water Bottle Company, Springfield, Mass. Closure for water bags. 1,752,808; Apr. 1.
Recchia, Leonard G., Seattle, Wash. Rebound absorber. 1,752,694; Apr. 1.
Recording Thermometer Company. (See Barstow, Welch, assignor.)
Reichart, James H., Muncie, Ind. Pop-corn machine. 1,752,457; Apr. 1.
Reid, Earl C. (See Molden, William M., assignor.)
Reller, Edwin L., and V. R. A. Stroh, St. Louis, Mo., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Accounting apparatus and system. 1,752,394; Apr. 1.
Remington Rand Inc. (See Dawson, George H., assignor.)
Remington Rand Inc. (See Hutchings, Le Roi E., assignor.)
Remington Rand Inc. (See Reller, E. L., and Stroh, assignors.)
Remington Typewriter Company. (See Going, George G., assignor.)
Remington Typewriter Company. (See Hart, Frederick A., assignor.)
Reserve Holding Company. (See Ruggles, Leonard L., assignor.)
Reserve Holding Company. (See Tharp, Victor S., assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Stange, Louis, assignor.)
Rice, Clarence L., Delta, Iowa. Egg carrier. 1,752,574; Apr. 1.
Richards, Daniel W. (See Lavarack, F. C., and Richards.)
Richardson Company, The. (See Lukens, Alan R., assignor.)
Richardson, Holden C., Washington, D. C. Landing gear. 1,752,395; Apr. 1.
Ridler, John E., Buffalo, N. Y. Cutting tool. 1,752,653; Apr. 1.
Ridlington, Joseph, Acton, London, England. Head lamp for road vehicles. 1,752,850; Apr. 1.
Riehm, Wilhelm, assignor to the firm Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany. Process and apparatus for starting internal-combustion engines. 1,753,021; Apr. 1.
Riley, Frank, et al. (See Thexton, J., jr., and Tomlinson, assignors.)
Ring, Arthur A., Montreal, Quebec, Canada. Device for holding printed matter. 1,752,614; Apr. 1.
Riordan, John M., Detroit, Mich. Auxiliary motor support. 1,752,809; Apr. 1.
Risdon, John J., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic printer. 1,752,458; Apr. 1.
Robbins, William K., assignor, by mesne assignments, to Ira J. Wilson, Chicago, Ill. Scraper. 1,753,022; Apr. 1.
Roberts, Eugene, Hastings, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah. Centrifugal basket. 1,753,023; Apr. 1.
Roberts, Montague H., Englewood, N. J., and F. R. Peters, assignors to Franklin Railway Supply Company, New York, N. Y. Flexible connection for locomotive boosters. 1,752,696; Apr. 1.
Robertson, Alexander, Atlantic, Mass. Floor-finishing machine. 1,752,965; Apr. 1.
Robertson, Harry M., Cleveland, Ohio. Apparatus for annealing. 1,752,697; Apr. 1.
Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lay-driving mechanism for looms. 1,752,459; Apr. 1.
Rockford Drilling Machine Co. (See Peterson, Juel L., assignor.)
Rode, Fredrich J., assignor to Marquette Tool & Mfg. Company, Chicago, Ill. Variable pressure or relief valve. 1,753,024; Apr. 1.
Roesch, George R., assignor to Tolectro Corporation, Toledo, Ohio. Gas-producing apparatus. 1,752,851; Apr. 1.
Rogers, John H., and T. Concha, Los Angeles, Calif. Water heating and dispensing means. 1,752,698; Apr. 1.
Rohkohl, Wilhelm, Potsdam, Germany, assignor to General Electric Company. Safety system. 1,752,852; Apr. 1.
Rohm & Haas Company. (See Pfister, Karl H. T., assignor.)
Rohrdants, Henry, Philadelphia, Pa. Traffic indicator. 1,752,756; Apr. 1.
Romig, Frank G., Seattle, Wash. Blower. 1,752,810; Apr. 1.
Root, Harold C., Adams Center, N. Y. Windshield cleaner and heater. 1,752,615; Apr. 1.
Roosevelt, Claude L., Detroit, Mich. Curtain drier and stretcher. 1,753,025; Apr. 1.
Rosati, Dominick, Chicago, Ill. Cork extractor. 1,753,026; Apr. 1.
Roselle, Fredrick H., Turlock, Calif. Fuse-handling tool. 1,752,575; Apr. 1.
Rosen, Morris. (See Bergelson, Isadore, assignor.)
Rosenbaum, Rudolph R., Chicago, Ill. Lubricant product and producing process. 1,752,309; Apr. 1.
Rosenblatt, Isidor, assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y. Lighting fixture. 1,752,654; Apr. 1.
Ross, Hugh J., Cliffwood, N. J. Airship. 1,753,068; Apr. 1.
Ross, Joseph C., Memphis, Tex. Combination shoe and hosiery stand. 1,752,699; Apr. 1.
Rosson, John W., Morgan City, La. Moss feeder and cleaner. 1,752,576; Apr. 1.
Röst-Grande, Alexander. (See Hubert, E., Röst-Grande, and Correns.)
Rothenberg, Harry, West Norwood, N. J., and S. L. Henken, Bronx, assignors to H. Hyman, Brooklyn, N. Y. Drycell-battery sealing composition. 1,752,351; Apr. 1.
Rowe, William W., assignor to The Paper Service Company, Cincinnati, Ohio. Crinkling and reenforcing paper. Re17,633; Apr. 1.
Rowley, Charles D., London, and W. Jackson, Brighton, assignors to The Autokal Syndicate Limited, London, W. 1., England. Calculating machine. 1,753,093; Apr. 1.
Royal Railway Improvements Corporation. (See Sauvage, William H., assignor.)
Ruben Patents Company. (See Ruben, Samuel, assignor.)
Ruben, Samuel, assignor to Ruben Patents Company, New York, N. Y. Method and apparatus of telephonic communication. 1,752,811; Apr. 1.
Ruddick, John J., West Newton, Mass., assignor to General Street Signal Corporation, Rochester, N. Y. Circuit controller. 1,752,812; Apr. 1.
Ruebel, Adam, Ithaca, N. Y. Edge trimmer. 1,753,132; Apr. 1.
Ruggles, Leonard L., Wheaton, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,752,543; Apr. 1.
Ruggles, William A., Schenectady, N. Y., assignor to General Electric Company. Magnesium covered calcium wire. 1,752,813; Apr. 1.
Rumford, Fred, Jetmore, Kans., and H. T. Henry, New York, N. Y. Stabilizer for aeroplanes. 1,752,396; Apr. 1.
Rundell, Raymond R., Miami, Fla. Self opening and closing container cap. 1,752,700; Apr. 1.
Rupert, George C. (See Noirot, Leo F. and O. G., and Rupert.)
Rusden, Ethelbert A., Nayatt, assignor to The Textile-Finishing Machinery Company, Providence, R. I. Cloth guiding and stretching device. 1,752,966; Apr. 1.
Russell, Arthur, Baltimore, Md., and J. F. Hegeman, New York, N. Y. Producing cellulose acetate. 1,752,853; Apr. 1.
Russell, C. E. (See Mitchell, James C., assignor.)
Russell, Ronald F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Strip-pulling device. 1,753,174; Apr. 1.
Ruthven, William, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Shaping tool. 1,752,507; Apr. 1.
Ryan, Bernard A., Syracuse, N. Y. Roller bearing. 1,752,616; Apr. 1.
Ryan Manufacturing Corporation. (See Hinds, Daniel C. and O. Q., assignor.)
Ryder, Frank P., Niagara Falls, N. Y. Feeding device for thrashing machines. 1,752,577; Apr. 1.
S. L. Products Company. (See Steiert, A. F., and Linke, assignors.)
Sacerdote, Guido M., Bayside, N. Y. Paper clip. 1,753,094; Apr. 1.
Safety Car Heating & Lighting Company, The. (See Eisemann, Carl W., assignor.)
Saftigard-Nudriaire, Inc. (See Hutchinson, Edward, jr., assignor.)
St. Joseph Iron Works. (See Schmidtke, Albert H., assignor.)
Sakuma, Eikichi, Tokyo Fu, Japan. Apparatus for making asphalt roofings. 1,753,027; Apr. 1.
Sandell, Joseph H., Chicago, Ill., assignor to Comstock-Castle Stove Company, Quincy, Ill. Heater door. Des. 80,855; Apr. 1.
Sandura Company. (See Millholland, James H., assignor.)
Sauvage, William H., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y. Hand brake. 1,753,133; Apr. 1.
Sayles, Ray. (See Stevens, W. E., assignor, and Jay.)
Schaumann, Otto. (See Ludwig, W., and Schaumann.)
Scheer, Charles, Silverton, Colo. Attachment for pipe stems. 1,753,095; Apr. 1.
Scherotto, John J., Union City, N. J., assignor to Snyder & Black, Incorporated, New York, N. Y. Package-display device. 1,752,655; Apr. 1.
Schlerghofer, Fred, Mount Vernon, N. Y. Window-closing device. 1,752,854; Apr. 1.
Schmid, Max, Nuremberg, Germany. Feed device for the carriage of typewriting machines. 1,753,134; Apr. 1.
Schmidt & Meimer. (See Hirschner, Karl, assignor.)
Schmidt, August F., St. Petersburg, Fla. Carton-discharging device. 1,752,352; Apr. 1.
Schmidtke, Albert H., assignor to St. Joseph Iron Works, St. Joseph, Mich. Method and apparatus for making baskets. 1,752,856; Apr. 1.
Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Combination smoking and vanity case. Des. 80,856; Apr. 1.
Schneyer, Max D., Windsor, Ontario, Canada, and S. Cochin, Detroit, assignors of one-third to N. Shifrin, Fordson, Mich. Device for protection of goods displayed in show windows against theft. 1,752,578; Apr. 1.

Schönberger, Fritz, Sterkrade, Germany. Apparatus for measuring physical characteristics of flowing streams of fluid. 1,752,855; Apr. 1.
Schönhöfer, Fritz. (See Schulemann, W., Schönhöfer, and Wingler.)
Schroeder, Simon E., Minier, Ill. Washing-machine-agitator mechanism. 1,752,757; Apr. 1.
Schuberth, Paul, Augsburg, Germany. Door for vehicles for removing house refuse. 1,753,135; Apr. 1.
Schulemann, Werner, Vohwinkel, near Elberfeld, F. Schönhöfer and A. Wingler, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Aminoalkylation of amines. 1,752,617; Apr. 1.
Schultis, Charles F., assignor of one-fourth to I. Herzbrun and one-fourth to S. W. Goldman, Cleveland, Ohio. Method of and machine for flanging pipes. 1,752,508; Apr. 1.
Schultz, Charles E., Chicago, Ill. Gas furnace. 1,752,460; Apr. 1.
Schumm, Max, Port Jefferson, N. Y. Method of and apparatus for employing tuning forks to generate audio-frequency current as a medium for sound. 1,753,069; Apr. 1.
Schwabe, Rudolf. (See Lautenschläger, C. L., Bockmühl, and Schwabe.)
Schwadron, Joel I., Vienna, Austria. Stocking. Des. 80,857; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,858; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,859; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,860; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,861; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,862; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,863; Apr. 1.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,864; Apr. 1.
Schwartz, Walter M., A. J. Harrison, and J. L. Fagan, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Panel-assembling apparatus. 1,753,070; Apr. 1.
Scott, William M., Tredyffrin Township, Chester County, Pa. Control system. 1,752,353; Apr. 1.
Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)
Scovill Manufacturing Company. (See Chapman, Romaine C., assignor.)
Scrimger, Peter, Detroit, Mich. Mounting device for seed planters. 1,753,136; Apr. 1.
Scudder, Charles J., Scranton, Pa. Locomotive valve gear. 1,753,028; Apr. 1.
See, Cyrus V., Hardin, Mo. Fishing device. 1,752,397; Apr. 1.
Seede, John A., Schenectady, N. Y., assignor to General Electric Company. Japanning oven. 1,752,857; Apr. 1.
Seekonk Lace Company. (See Naumann, Theodore F., assignor.)
Seibt, Georg, Berlin-Schoneberg, Germany. Electrostatic loud-speaker. 1,753,137; Apr. 1.
Semmes, Harry H., Chevy Chase, Md., assignor to Bendix Aviation Corporation, New York, N. Y. Airfoil construction. 1,752,701; Apr. 1.
Shawmut Engineering Company. (See Hall, B., and Hathaway, assignors.)
Shea, Timothy E., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission network. 1,752,461; Apr. 1.
Shea, Timothy E., Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave filter. 1,752,579; Apr. 1.
Shifrin, Nathan. (See Schneyer, M. D., and Cochin, assignors.)
Shimmin, John T., Hurley, N. Mex. Apparatus for separating solids from liquids or liquors by filtration. 1,752,758; Apr. 1.
Shipley, Roy A., Canton, Ohio, assignor to National Fire Proofing Company, Pittsburgh, Pa. Apparatus for manufacturing hollow tile. 1,752,702; Apr. 1.
Shnable, Earl P., Chicago, Ill. Bucket excavator. 1,752,510; Apr. 1.
Shore, William E., New York, N. Y. Oil and air mixing device in the form of vacuum pumps. 1,752,398; Apr. 1.
Siefken, Gustavus A., Minneapolis, Minn. Brooch-fastening device. 1,752,858; Apr. 1.
Siemens, Friedrich, Aktiengesellschaft. (See Durrer, R., Siemens, and Sprenger, assignors.)
Siemens, Friedrich C. (See Durrer, R., Siemens, and Sprenger.)
Siemens & Halske Aktiengesellschaft. (See Münchenhagen, Willy, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Ossanna, J., Graner, and Hofmann, assignors.)
Sieverling, Fred A., Great Bend, Kans. Safety apparatus for boats. 1,752,354; Apr. 1.
Signode Steel Strapping Company. (See Pagel, Ernest C., assignor.)
Simmons, Theodore, Mount Vernon, N. Y., assignor to Altorfer Brothers Company, East Peoria, Ill. Washing-machine agitator. 1,752,967; Apr. 1.
Simplex Wire and Cable Company. (See Boggs, Charles R., assignor.)
Simpson, Sanders C., Woodcliff, N. J. Aquarium stand or similar article. Des. 80,865; Apr. 1.
Simson, Herbert E., Los Angeles, Calif. Hand drill or screw driver. 1,752,708; Apr. 1.
Simunek, Jerry H., Gregory, S. Dak. Auxiliary air inlet for humidifiers. 1,752,859; Apr. 1.
Singer, Samuel, San Francisco, Calif. Price tag. 1,752,509; Apr. 1.
Sitton, Eugene N., La France, S. C. Padding with selvedge. 1,753,138; Apr. 1.
Skell, James E., Newark, N. J. Frame for holding photographic films and plates. 1,752,814; Apr. 1.
Sleeman, William C., Birmingham, Ala. Railway-brake equipment. 1,752,704; Apr. 1.
Sloane, W. & J., Manufacturing Company. (See Tomec, J., and Cubrda, assignors.)
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Roof structure for railway cars. 1,752,355; Apr. 1.
Smith, Anthony R., Elyria, assignor to Steel and Tubes, Inc., Cleveland, Ohio. Lock. 1,752,968; Apr. 1.
Smith, Elmer L., Longmeadow, assignor to Package Machinery Company, Springfield, Mass. Applying labels to packages. 1,752,706; Apr. 1.
Smith, Hinsdale, Springfield, Mass., assignor to I. M. Upercu, New York, N. Y. Convertible body. 1,752,511; Apr. 1.
Smith, James N. (See Austin, W. R., and Smith.)
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and card-perforating machine. Re17,634; Apr. 1.
Smith, John A., Cornwall, Ontario, Canada. Back-up brake for vehicles. 1,752,618; Apr. 1.
Smith, Joseph B., Havana, Ill. Machine for use in removing tires from wheels and rims. 1,752,759; Apr. 1.
Smith, Walter A., assignor to Stover Manufacturing & Engine Co., Freeport, Ill. Combined mop and brush holder. 1,752,512; Apr. 1.
Smith, Walter C., Moylan, assignor to Primos Lead Company, Philadelphia, Pa. Reclaiming battery-plate material. 1,752,356; Apr. 1.
Smith, Walter F., Kingsport, Tenn., assignor, by mesne assignments, to Kingsport Press, Inc. Nontarnishing metallic ink. 1,752,462; Apr. 1.
Smith, William T., Muncie, Ind. Bottle receptacle. 1,752,815; Apr. 1.
Smythe, Albert Q. (See Smythe, Frank E. and A. Q.)
Smythe, Frank E. and A. Q., San Diego, assignors of one-half to A. and M. Atleson, Los Angeles, Calif. Lever lock. 1,752,463; Apr. 1.
Snarry, John W., Handsworth, Birmingham, assignor to The Gear Grinding Company Limited, Birmingham, England. Metal cutting and grinding machine. 1,753,096; Apr. 1.
Snell, Harry S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Molding compound and its production. 1,752,580; Apr. 1.
Snyder & Black, Incorporated. (See Scherotto, John J., assignor.)
Sobecki, Anthony J., South Bend, Ind. Fish lure. 1,752,706; Apr. 1.
Société Anonyme le Carbone. (See Portail, Fernand C. F., assignor.)
Sockett, Phillip. (See Marshutz, S. G., and Sockett.)
Sologaistoa, Manuel H. P., San Pedro Sula, Honduras. Engine piston. 1,752,816; Apr. 1.
Spalding, A. G., and Bros. (See Gammeter, John R., assignor.)
Spalding, A. G., & Bros. (See Reach, Milton B., assignor.)
Spang, Ferdinand J., Butler, Pa. Fishing tool. 1,752,656; Apr. 1.
Sparks, Stanley W., Summit, N. J., assignor to The Columbus Machine Company, Columbus, Ohio. Gate valve. 1,752,657; Apr. 1.
Sparks, William, and L. E. Johnson, assignors to The Sparks-Withington Company, Jackson, Mich. Circuit closer. 1,753,029; Apr. 1.
Sparks-Withington Company, The. (See Sparks, W., and Johnson, assignors.)
Sparrow, William T., Hampton, Va., assignor of one-third to E. H. Fairbanks, Merchantville, N. J. Pin or bolt retainer for brake rigging. 1,752,544; Apr. 1.
Specter, Harry C., New York, N. Y. Waterproof-closure fastener. 1,752,464; Apr. 1.
Spector, Herman, Brooklyn, N. Y. Door viewer. Des. 80,866; Apr. 1.
Spelling, Thomas C., New York, N. Y. Water hoist. 1,753,163; Apr. 1.
Spelling, Thomas C., New York, N. Y. Water hoist. 1,753,164; Apr. 1.
Spence, David, Norwalk, Conn., assignor to Inter-continental Rubber Company, New York, N. Y. Treatment of guayule, etc. 1,753,184; Apr. 1.
Spence, David, Norwalk, Conn., assignor to Intercontinental Rubber Company, New York, N. Y. Extraction of rubber from guayule, etc. 1,753,185; Apr. 1.

Spencer, Corte J., Dundee, N. Y. Cow poke. 1,753,071; Apr. 1.
Spencer, Frank C., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Feeding device for drilling-machine spindles. 1,752,465; Apr. 1.
Sperry Gyroscope Company. (See Bassett, Preston R., assignor.)
Sperry Gyroscope Company. (See Mills, Chester B., assignor.)
Spohr, Carl W., assignor to Williams, Camp and Bradbury, Chicago, Ill. Carburetor-controlling device. 1,752,817; Apr. 1.
Sprenger, Arthur. (See Durrer, R., Siemens, and Sprenger.)
Square D. Company. (See Van Valkenburg, Hermon L., assignor.)
Squier, Ralph A., Tieton, Wash. Box-lidding bench. 1,752,707; Apr. 1.
Stacks, Homer, Detroit, Mich. Detachable vehicle top. 1,753,031; Apr. 1.
Standard Manufacturing Company, The. (See Marson, Clifford J., assignor.)
Standard Oil Company. (See Sullivan, Frederick W., jr., assignor.)
Standard Oil Company of California. (See Halloran, R. A., Davis, and Davidson, assignors.)
Standard Oil Company of California. (See McLaughlin, William I., assignor.)
Standard Oil Company of California. (See Parker, Charles K., assignor.)
Standard Oil Development Company. (See Hewetson, Henry H., assignor.)
Standard Oil Development Company. (See Loomis, Nathaniel E., assignor.)
Stange, Louis, Sommerda, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Trigger apparatus for the single and continuous fire of automatic firearms. 1,753,072; Apr. 1.
Stanger, Herman C., Fort Ann, N. Y. Signal and communication mechanism for sunken submarines. 1,753,139; Apr. 1.
Starr, Morton H., assignor to The Howe Scale Company, Rutland, Vt. Railway-track scale. 1,753,097; Apr. 1.
Steel and Tubes, Inc. (See Smith, Anthony R., assignor.)
Steiert, Alois F., and O. W. Linke, assignors to S. L. Products Company, Philadelphia, Pa. Floor waxing and polishing device. 1,752,581; Apr. 1.
Stein, Charles, and W. M. Heller, Atlantic City, N. J. Doll. 1,753,032; Apr. 1.
Stein, Leo, Chicago, Ill. Brief case. 1,752,310; Apr. 1.
Steinbrückner, Adolf, Duisburg, Germany. Mill. 1,752,860; Apr. 1.
Stertzbach, Harry W. (See Johnson, G. T., and Stertzbach.)
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-testing machine. 1,753,175; Apr. 1.
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Method and apparatus for drying articles. 1,753,176; Apr. 1.
Stevens, William C., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Bending machine. 1,753,177; Apr. 1.
Stevens, William E., and C. B. Jay, Raymond, Wash.; said Stevens assignor to R. Sayles. Roller screen. 1,752,466; Apr. 1.
Stevenson, Alexander R., jr., Schenectady, N. Y.; assignor to General Electric Company. Starting synchronous motor. 1,752,932; Apr. 1.
Stevenson, Geoffrey, Brookline, Mass. Copyholder. 1,752,399; Apr. 1.
Stewart, Walter C., assignor to E. Frohman, Gastonia, N. C. Differential motion for roving frames and the like. 1,752,708; Apr. 1.
Stickney, Burnham C., Hillside, N. J. Internal-combustion engine. 1,753,159; Apr. 1.
Stoecklin, Josef. (See Kopeliowitsch, J., and Stoecklin.)
Stoll, Berry V., assignor to Stoll Oil Refining Company, Louisville, Ky. Gasoline-filtering system and apparatus. 1,752,709; Apr. 1.
Stoll Oil Refining Company. (See Stoll, Berry V., assignor.)
Stone, Wallace E. C., Los Angeles, Calif. Dirigible headlight. 1,752,861; Apr. 1.
Stopperless Water Bottle Company. (See Reach, Milton B., assignor.)
Stover Manufacturing & Engine Co. (See Smith, Walter A., assignor.)
Stowell, Samuel N., Yuba City, assignor of one-fourth to E. A. E. Rattray, Marysville, Calif. Auto sled. 1,753,160; Apr. 1.
Strawn, Thomas C., Salem, Ohio. Garden implement. 1,752,467; Apr. 1.
Streszynski, George J., Kingston, N. Y. Hydraulic clutch. 1,752,862; Apr. 1.
Stroh, Victor B. A. (See Reller, E. L., and Stroh.)
Stull, John S., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Work-feeding device for drilling machines. 1,752,468; Apr. 1.
Sullivan, Frederick W., jr., assignor to Standard Oil Company, Whiting, Ind. Immersion wax. 1,752,933; Apr. 1.
Summerfeld, Albert, Saskatoon, Saskatchewan, Canada. Release-snap construction. 1,752,619; Apr. 1.
Sund, Alfred D., Santa Rosa, Calif. Bumper leg for brooms. 1,752,400; Apr. 1.
Sund, Alfred D., Santa Rosa, Calif. Bumper for brooms. 1,752,401; Apr. 1.
Surface Combustion Company, The. (See Colby, F. R., and Larsen, assignors.)
Surface Combustion Company, The. (See Hepburn, William M., assignor.)
Sutton Engineering Company. (See Wise, George A., assignor.)
Swanson, Reynold A., Montrose, S. Dak. Cover-retaining means. 1,752,710; Apr. 1.
Swartzbaugh Manufacturing Company, The. (See Ziola, Henry A., assignor.)
Swindin, Norman, Acton, London, England. Siphon. 1,752,620; Apr. 1.
Tarkington, George W., Silver Plume, Colo. Electric sign and its operation. 1,752,700; Apr. 1.
Tarkington, George W., Silver Plume, Colo. Extracting essentials from coffee and other substances. 1,752,761; Apr. 1.
Tarr, Omar F., Baltimore, Md., assignor to Mutual Chemical Company of America, New York, N. Y. Manufacture of chromates. 1,752,863; Apr. 1.
Tatarek, Joseph C., Jamestown, N. Dak. Flue bushing. 1,753,098; Apr. 1.
Tatham, Norman, Los Angeles, Calif. Scale. 1,752,711; Apr. 1.
Taveira, Antonio A. M., assignor to The Textile-Finishing Machinery Company, Providence, R. I. Automatic stretching and guiding apparatus. 1,753,033; Apr. 1.
Taylor, Charles, Buffalo, N. Y., assignor to Taylor Freezer Corporation, Beloit, Wis. Ice-cream freezer. 1,752,582; Apr. 1.
Taylor Freezer Corporation. (See Taylor, Charles, assignor.)
Taylor, Laurens A., Schenectady, N. Y., assignor to General Electric Company. Antenna system. 1,752,864; Apr. 1.
Taylor, Roy F., Richmond, Ind. Furniture base. 1,752,818; Apr. 1.
Tennant, John W., Middlesex, England, assignor to Radio Corporation of America. Connection block. 1,752,469; Apr. 1.
Tenney, Frederick H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Safety clutch for tire conveyers. 1,753,178; Apr. 1.
Ternstedt Manufacturing Company. (See Hollindale, Wilfred H., assignor.)
Ternstedt Manufacturing Company. (See Schnell, William, assignor.)
Texas Company, The. (See Hall, Frank W., assignor.)
Textile-Finishing Machinery Company. (See Rusden, Ethelbert A., assignor.)
Textile-Finishing Machinery Company, The. (See Taveira, Antonio A. M., assignor.)
Tharp, Victor S., Elmhurst, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,752,470; Apr. 1.
Thexton, Joseph, jr., and H. Tomlinson, assignors of one-fourth to J. E. Freeling and one-fourth to F. Reily, Fall River, Mass. Loom. 1,752,621; Apr. 1.
Thomas, Floyd H., Milan, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 1,753,034; Apr. 1.
Thornton, John E., London, assignor to J. O. O'Brien, Manchester, England. Multicolor cinematograph and other film. 1,753,140; Apr. 1.
Thorp, Vaughn P. (See Kelley, L. A., Monk, and Thorp.)
Thorpe, Samuel T., and N. P. Peterson, assignors to The Horton Manufacturing Company, Bristol, Conn. Fishing rod. 1,752,865; Apr. 1.
Tiemann, Otto P., Bloomington, Ill. Seed-corn-testing laboratory. 1,752,518; Apr. 1.
Tietz, Ernest R., Detroit, Mich. Automobile wheel. 1,752,819; Apr. 1.
Tietze, Paul. (See Martin, K., and Tietze.)
Timblin, William S., River Forest, Ill. Umbrella. 1,752,820; Apr. 1.
Timblin, William S., River Forest, Ill. Umbrella. 1,752,821; Apr. 1.
Time-O-Stat Controls Company. (See Gauger, F. A., and Johnson, assignors.)
Todd, Ulysess G. (See Nichols, E. B., and Todd.)
Tolectro Corporation. (See Boesch, George R., assignor.)
Tomec, John, and F. Cubrda, Trenton, N. J., assignors to W. & J. Sloane Manufacturing Company. Inlaid linoleum and producing same. 1,752,402; Apr. 1.
Tomlinson, Henry. (See Thexton, J., jr., and Tomlinson.)
Townsend, William S., and W. H. Parker, Rochester, Pa., assignors, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Liquid-dispensing arrangement. 1,752,934; Apr. 1.
Trebes, Bruno M. A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Extrusion machine. 1,752,471; Apr. 1.
Trinkl, Hans, Uhren- und Apparatefabrik G. m. b. H. (See Lang, Theo, assignor.)
Tröften, Einar, Sulitjelma, Norway. Bucket and equipment for carrying same. 1,753,073; Apr. 1.
Trojan Powder Company. (See Wyler, Joseph A., assignor.)
Trombetta, Panfilo, Schenectady, N. Y., assignor to General Electric Company. Solenoid winding. 1,752,866; Apr. 1.

Trostel, Louis J., Baltimore, Md., assignor to General Refractories Company, Philadelphia, Pa. Refractory composition and making refractory articles therefrom. 1,752,867; Apr. 1.
Trotman, Walter K., Holyoke, Mass. Dandy roll. 1,752,311; Apr. 1.
Truscon Steel Company. (See Briody, Bernard, assignor.)
Truscott, Starr. (See Jacobsohn, I. M., and Truscott.)
Turner, John W., H. Wood, and E. Mann, Halifax, England. Shock-absorbing device for mechanically-propelled vehicles. 1,753,099; Apr. 1.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for looms. 1,752,403; Apr. 1.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multicolor magazine. 1,752,404; Apr. 1.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for double-shuttle looms. 1,752,405; Apr. 1.
Turnquist, Magnus, Chicago, Ill. Hinge device. 1,752,312; Apr. 1.
Tuttle, Henry A., deceased, Upton, Mass.; J. L. Tuttle, executrix. Clutch mechanism. 1,752,313; Apr. 1.
Tuttle, Jennie L., executrix. (See Tuttle, Henry A.)
Tygart Valley Glass Company. (See Noble, Olbert C., assignor.)
Uhle, David J., and J. V. Durnin, Allentown, Pa. Pulverizing or grinding mill. 1,752,314; Apr. 1.
Uhle, David J., and J. V. Durnin, Allentown, Pa. Pulverizing or grinding mill. 1,752,622; Apr. 1.
Uhle, David J., and J. V. Durnin, Allentown, Pa. Pulverizing or grinding mill. 1,752,623; Apr. 1.
Uhrig, Richard V., Los Angeles, Calif. Slip for rotary tables and spiders for handling pipe. 1,752,822; Apr. 1.
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Bank of Chicago, trustee. (See Cowles, Irving, assignor.)
Union Carbide & Carbon Research Laboratories, Inc. (See Lytle, Arthur R., assignor.)
Union Electric Manufacturing Company. (See Mekelburg, Earl F., assignor.)
Union Metal Products Company. (See Small, Arthur E., assignor.)
Union Switch & Signal Company. (See Witmer, Harold G., assignor.)
United Auto Trunk Co. (See Balin, Samuel, assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
Universal Button Fastening & Button Company. (See Clark, J. M., and Ford, assignors.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Hohn, Max P. E., assignor.)
Upercu, Inglis M. (See Smith, Hinsdale, assignor.)
Urschel, Bertis H., assignor to Urschel Engineering Company, Bowling Green, Ohio. Axle for self-propelled vehicles. 1,753,037; Apr. 1.
Urschel Engineering Company. (See Urschel, Bertis H., assignor.)
Utter, Bror A., assignor to McClelland Casket Hardware Company, Richmond, Ind. Casket handle. 1,752,868; Apr. 1.
Uttrich, Louis A., Albany, N. Y., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Dyeing apparatus. 1,752,712; Apr. 1.
Van Ackeren, Joseph. (See Becker, J., and Van Ackeren.)
Van den Abeele, Joseph, Ghent, Belgium. Spinning machine. 1,752,869; Apr. 1.
Vance, Walter N., Nort Aurora, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Shelf rack. 1,752,315; Apr. 1.
Van Buren, John, Brooklyn, N. Y. Wrapping machine. 1,752,762; Apr. 1.
Vanderbilt, R. T., Company. (See Evans, Walter W., assignor.)
Van Dorn, Herbert E., Chicago, Ill., assignor to W. E. Van Dorn, Pasadena, Calif. Electric switch. 1,752,763; Apr. 1.
Van Dorn, Herbert E., Chicago, Ill., assignor to W. E. Van Dorn, Pasadena, Calif. Combined coupler head and buffer. 1,752,764; Apr. 1.
Van Dorn, William E. (See Van Dorn, Herbert E., assignor.)
Van Howe, Desire H., Royal Oak, Mich. Slide-way for window panes. 1,753,038; Apr. 1.
Van Sant, Robert H., Chicago, Ill. Applicator for toilet preparations. 1,752,765; Apr. 1.
Van Valkenburg, Hermon L., Wauwatosa, Wis., assignor, by mesne assignments, to Square D. Company, Detroit, Mich. Thermal overload relay. 1,752,514; Apr. 1.
Van Vlaanderen Machine Company. (See Hinnekens, Florent, assignor.)
Vesuvius Corporation, The. (See Lynn, John S., assignor.)
Vethe, Anders E., Oslo, Norway. Calculating apparatus. 1,752,766; Apr. 1.
Vincent, Charles W., Kingston, Pa. Aeroplane wing. 1,753,075; Apr. 1.
Visitacion, Aniceto R., assignor of one-fourth to G. W. Weigel and one-half to L. G. Weigel, New York, N. Y. Lighter. 1,752,658; Apr. 1.
Voshardt, Herman F., assignor to Friedley-Voshardt Co., Chicago, Ill. Nozzle for dishwashers. 1,752,816; Apr. 1.
Walker Cement Products, Inc. (See Dietrichs, Charles, assignor.)
Walker Dishwasher Corporation. (See Walker, Forrest A., assignor.)
Walker, Forrest A., assignor to Walker Dishwasher Corporation, Syracuse, N. Y. Spray nozzle. 1,752,823; Apr. 1.
Walker, Harold W., Edgewood Arsenal, Md. Wood preservation. 1,753,000; Apr. 1.
Walkley, Frank H. (See Walther, G., Walkley, and Borghardt.)
Walter, Erich, Atlantic City, N. J. Combination outlet box. 1,753,100; Apr. 1.
Waltham System, Inc. (See Folger, Henry C., assignor.)
Walther, George, F. H. Walkley, and J. H. Borghardt, assignors to The Dayton Steel Foundry Company, Dayton, Ohio. Wheel. 1,752,317; Apr. 1.
Walty, Werner, Ennetbaden, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Electrical protective apparatus. 1,752,970; Apr. 1.
Wardrop, Ralph T. (See Yocum, E. L., and Wardrop.)
Warnock, Wallace S. (See Bryant, G. F., and Warnock.)
Warnock, Wallace S., Chicago, Ill. Printing-press bed. 1,752,767; Apr. 1.
Wasselge, Charles R., Rueil, assignor to Henri et Maurice Farman, Billancourt, France. Steering mechanism for motor vehicles. 1,752,624; Apr. 1.
Watson, George, Beaconsfield, British Columbia, Canada. Locking device. 1,752,824; Apr. 1.
Wayne Pump Company, The. (See Cleary, Andrew W., assignor.)
Wayne Pump Company, The. (See Townsend, W. S., and Parker, assignors.)
Weaver, Gallard E., and E. W. Kelley, assignors to Weaver Manufacturing Company, Springfield, Ill. Tire-casing spreader. 1,753,035; Apr. 1.
Weaver Manufacturing Company. (See Weaver, G. E., and Kelley, assignors.)
Weber, Jacob A. and L. A., Cleveland Heights, Ohio. Catafalque. Des. 80,867; Apr. 1.
Weber, Louis A. (See Weber, Jacob A. and L. A.)
Weepah Manufacturing Corporation, The. (See Johnson, Alfred E., assignor.)
Weigel, General W., et al. (See Visitacion, Aniceto R., assignor.)
Weigel, Louis G., et al. (See Visitacion, Aniceto R., assignor.)
Weiss, Josef. (See Karg, R., and Weiss.)
Welding Service Inc. (See McClary, Archie W., assignor.)
Wensley, Earl, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound or vibration transmitting apparatus. 1,752,515; Apr. 1.
Wertz, Roy O., assignor to The Ohio Electric and Controller Company, Cleveland, Ohio. Connecter. 1,753,179; Apr. 1.
Western Electric Company. (See Anderson, Carter H., assignor.)
Western Electric Company. (See Beardsley, H. I., and Clarke, assignors.)
Western Electric Company. (See Fay, Joseph W., assignor.)
Western Electric Company. (See Hartley, Ralph V. L., assignor.)
Western Electric Company. (See Hoag, Charles I., assignor.)
Western Electric Company. (See Hubbard, Francis A., assignor.)
Western Electric Company. (See Jongedyk, Ralph, assignor.)
Western Electric Company. (See Jorgensen, Edmund N., assignor.)
Western Electric Company. (See Karcher, John C., assignor.)
Western Electric Company. (See Kivley, Ray C., assignor.)
Western Electric Company. (See Malm, Frank S., assignor.)
Western Electric Company. (See Massingham, Henry R., assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Piper, Harry D., assignor.)
Western Electric Company. (See Ruthven, William, assignor.)
Western Electric Company. (See Shea, Timothy E., assignor.)
Western Electric Company. (See Snell, Harry S., assignor.)
Western Electric Company. (See Spencer, Frank C., assignor.)
Western Electric Company. (See Stull, John S., assignor.)
Western Electric Company. (See Trebes, Bruno M. A., assignor.)
Western Electric Company. (See Wensley, Earl, assignor.)
Western States Machine Company, The. (See Roberts, Eugene, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bollinger, Paul, assignor.)
Westinghouse Lamp Company. (See Hageman, A. M., and Lindstrom, assignors.)

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Westinghouse Lamp Company. (See Lederer, Ernest A., assignor.)
Wetch, Paul, Waukegan, Ill. Boat hull. 1,752,406; Apr. 1.
Wharam, John J., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Brake. 1,752,516; Apr. 1.
Whatley, William J., Dallas, Tex. Internal-combustion engine. 1,752,713; Apr. 1.
White, Francis J., Brooklyn, N. Y., assignor to The Okonite Company, Passaic, N. J. Apparatus for reducing sheath currents. 1,752,318; Apr. 1.
White, Francis J., Brooklyn, N. Y., assignor to The Okonite Company, Passaic, N. J. Apparatus for reducing sheath currents. 1,752,319; Apr. 1.
White, Francis J., Brooklyn, N. Y., assignor to The Okonite Company, Passaic, N. J. Apparatus for reducing sheath currents. 1,752,320; Apr. 1.
Whitelegg, Robert H., Disley, England. Fuel bunker for the steam generators of locomotives, marine and stationary engines, and plant. 1,752,870; Apr. 1.
Whitmanis Manufacturing Company. (See Whitney, Karl H., assignor.)
Whitney, Karl H., assignor to Whitmanis Manufacturing Company, Kirksville, Mo. Supporting bar. 1,752,472; Apr. 1.
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Switch-actuating mechanism. 1,753,078; Apr. 1.
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Emergency electric-lighting system. 1,753,101; Apr. 1.
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Switch-actuating mechanism. 1,753,180; Apr. 1.
Wiener, Hugo, Madisonville, Ky. Phonograph construction. 1,752,357; Apr. 1.
Wieseman, Robert W., Schenectady, N. Y., assignor to General Electric Company. Double speed, synchronous, dynamo-electric machine. 1,752,871; Apr. 1.
Wilcox, Albert C., Bridgeport, Ohio. Coal-loading machine. 1,752,714; Apr. 1.
Wilcox, Elmer W. (See Ammon, C. D., and Wilcox.)
Williams, Camp, and Bradbury. (See Spohr, Carl W., assignor.)
Williams, David T., Paterson, N. J. Drifting valve. 1,752,321; Apr. 1.
Williams, Edward T., Pelham Manor, assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y. Refrigerating apparatus. Re17,635; Apr. 1.
Williams, Harold E., Carthage, Mo. Awning. 1,753,102; Apr. 1.
Williams, Louis N. D. (See Buts, Walter D., assignor.)
Williamson, Timothy W., and R. R. Gentry, Hollywood, Tenn. Mail-sorting apparatus. 1,753,036; Apr. 1.
Wilson, George D., Berkeley, Calif., assignor to American Meter Company, Inc., New York, N. Y. Crank-shaft assembly. 1,752,625; Apr. 1.
Wilson, Ira J. (See Robbins, William K., assignor.)
Wilson, William H. (See Land, Charles H., assignor.)
Wilson, William W., Sioux City, Iowa, assignor to Kari-Keen Manufacturing Company, Inc. Trunk and luggage rack. 1,753,077; Apr. 1.
Wingler, August. (See Schulemann, W., Schönhöfer, and Wingler.)
Winthrop Chemical Company. (See Brodersen, K., and Ext, assignors.)
Winthrop Chemical Company. (See Lautenschläger, C. L., Beckmühl, and Schwabe, assignors.)
Winthrop Chemical Company Inc. (See Ludwig, W., and Schaumann, assignors.)
Winthrop Chemical Company. (See Schulemann, W., Schönhöfer, and Wingler, assignors.)
Winser, Oscar G., Troy, Kans. Paint and varnish remover. 1,752,858; Apr. 1.
Wise, George A., assignor to Sutton Engineering Company, Pittsburgh, Pa. Guide for straightening rolls. 1,752,825; Apr. 1.
Witmer, Harold G., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Insulation for electrical conductors. 1,752,872; Apr. 1.
Wittlig, Theodore H., Cleveland, Ohio. Brace for windsor chairs and the like. 1,752,545; Apr. 1.
Wobst, Paul F., Milwaukee, Wis. Peeler. 1,752,768; Apr. 1.
Wohlhuter, William G., Sherburn, Minn. Windshield heater. 1,752,715; Apr. 1.
Wolcott, Edson R., et al. (See Hatfield, Frank A., assignor.)
Wood, Harvey. (See Turner, J. W., Wood, and Mann.)
Woodall, John H., assignor to Georgia Cushion and Wrapper Company, Woodland, Ga. Pad for fruit containers. 1,752,716; Apr. 1.
Woodbury Shoe Mfg. Co. (See Bee, Herbert, assignor.)
Woodward, John E., Brooklyn, assignor to Messrs. Kastenhuber & Lehrfeld, New York, N. Y. Pen-point alloy. 1,753,161; Apr. 1.
Woodward, John E., assignor to Kastenhuber & Lehrfeld, New York, N. Y. Alloy. 1,753,162; Apr. 1.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. 1,752,359; Apr. 1.
Worthington Pump and Machinery Corporation. (See Allerton, Robert W., assignor.)
Wreschner, Marie, and L. F. Loeb, assignors to the firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Composition of matter and producing same. 1,752,826; Apr. 1.
Wright, Gordon A., Syracuse, N. Y. Building floor. 1,752,583; Apr. 1.
Wyatt, Floyd, Whittenberg, Tex. Gas burner. 1,753,141; Apr. 1.
Wyler, Joseph A., Allentown, Pa., assignor to Trojan Powder Company. Artificial fuel. 1,752,985; Apr. 1.
Yocum, Elmer L., Shamokin, and R. T. Wardrop, Bear Gap, Pa. Switch for directional signals. 1,753,078; Apr. 1.
Yoho, Walter A. (See Clark, John L., assignor.)
Young, William J., Cleveland, Ohio. Roofing construction. 1,752,827; Apr. 1.
Youngstown Steel Door Company, The. (See Barrows, Allan S., assignor.)
Youngstown Steel Door Company, The. (See Ditchfield, Frank, assignor.)
Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Method and apparatus for mounting filaments. 1,752,828; Apr. 1.
Zabriskie, William F., assignor to Gabriel Steel Company, Detroit, Mich. Securing clip for metallic lath. 1,752,517; Apr. 1.
Zapert, Joseph, Brooklyn, N. Y. Combination key and dial lock. 1,752,407; Apr. 1.
Zapf, Georg, Riehlerwall, Cologne, assignor to Felten & Guilleaume Carlswerk Actiengesellschaft, Cologne-Mulheim, Germany. Submarine cable with pressure-protecting covering. 1,753,079; Apr. 1.
Zehnder, Paul, assignor to the firm Internationale Siegwartbalkengesellschaft in Lusern, Lucerne, Switzerland. Device for the production of tubes, poles, and the like from reenforced concrete centrifugally. 1,752,626; Apr. 1.
Zehnder, Paul, assignor to the firm Internationale Siegwartbalkengesellschaft in Lusern, Lucerne, Switzerland. Device for producing reenforced-concrete tubes by the action of centrifugal force. 1,752,627; Apr. 1.
Zein, Otto, Berlin, Germany. Tube expander. 1,752,408; Apr. 1.
Zelt, Elmer J., Fort Wayne, Ind., assignor to General Electric Company. Variable-voltage transformer. 1,752,873; Apr. 1.
Zeyen, Karl. (See Lex, Rudolf, assignor.)
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Guide rail for shaping-machine worktables. 1,753,142; Apr. 1.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Shaping-machine work-table cross-rail guide. 1,753,143; Apr. 1.
Zindel, Ernst, assignor to H. Junkers, Dessau, Germany. Flying boat. 1,752,874; Apr. 1.
Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Cooker. 1,752,769; Apr. 1.
Zwilling, Arthur J., Valley Stream, and J. Faist, Glendale, N. Y. Optician's pliers. 1,753,080; Apr. 1.

Trostel, Louis J., Baltimore, Md., assignor to General Refractories Company, Philadelphia, Pa. Refractory composition and making refractory articles therefrom. 1,752,867; Apr. 1.
Trotman, Walter K., Holyoke, Mass. Dandy roll. 1,752,311; Apr. 1.
Truscon Steel Company. (See Briody, Bernard, assignor.)
Truscott, Starr. (See Jacobsohn, I. M., and Truscott.)
Turner, John W., H. Wood, and E. Mann, Halifax, England. Shock-absorbing device for mechanically-propelled vehicles. 1,753,099; Apr. 1.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for looms. 1,752,403; Apr. 1.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Multicolor magazine. 1,752,404; Apr. 1.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft-replenishing mechanism for double-shuttle looms. 1,752,405; Apr. 1.
Turnquist, Magnus, Chicago, Ill. Hinge device. 1,752,312; Apr. 1.
Tuttle, Henry A., deceased, Upton, Mass.; J. L. Tuttle, executrix. Clutch mechanism. 1,752,313; Apr. 1.
Tuttle, Jennie L., executrix. (See Tuttle, Henry A.)
Tygart Valley Glass Company. (See Noble, Olbert C., assignor.)
Uhle, David J., and J. V. Durnin, Allentown, Pa. Pulverizing or grinding mill. 1,752,314; Apr. 1.
Uhle, David J., and J. V. Durnin, Allentown, Pa. Pulverizing or grinding mill. 1,752,622; Apr. 1.
Uhle, David J., and J. V. Durnin, Allentown, Pa. Pulverizing or grinding mill. 1,752,623; Apr. 1.
Uhrig, Richard V., Los Angeles, Calif. Slip for rotary tables and spiders for handling pipe. 1,752,822; Apr. 1.
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Bank of Chicago, trustee. (See Cowles, Irving, assignor.)
Union Carbide & Carbon Research Laboratories, Inc. (See Lytle, Arthur R., assignor.)
Union Electric Manufacturing Company. (See Mekelburg, Earl F., assignor.)
Union Metal Products Company. (See Small, Arthur E., assignor.)
Union Switch & Signal Company. (See Witmer, Harold G., assignor.)
United Auto Trunk Co. (See Balin, Samuel, assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
Universal Button Fastening & Button Company. (See Clark, J. M., and Ford, assignors.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Hohn, Max P. E., assignor.)
Upercu, Inglis M. (See Smith, Hinsdale, assignor.)
Urschel, Bertis H., assignor to Urschel Engineering Company, Bowling Green, Ohio. Axle for self-propelled vehicles. 1,753,037; Apr. 1.
Urschel Engineering Company. (See Urschel, Bertis H., assignor.)
Utter, Bror A., assignor to McClelland Casket Hardware Company, Richmond, Ind. Casket handle. 1,752,868; Apr. 1.
Uttrich, Louis A., Albany, N. Y., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Dyeing apparatus. 1,752,712; Apr. 1.
Van Ackeren, Joseph. (See Becker, J., and Van Ackeren.)
Van den Abeele, Joseph, Ghent, Belgium. Spinning machine. 1,752,869; Apr. 1.
Vance, Walter N., Nort Aurora, assignor to Lyon Metal Products, Incorporated, Aurora, Ill. Shelf rack. 1,752,315; Apr. 1.
Van Buren, John, Brooklyn, N. Y. Wrapping machine. 1,752,762; Apr. 1.
Vanderbilt, R. T., Company. (See Evans, Walter W., assignor.)
Van Dorn, Herbert E., Chicago, Ill., assignor to W. E. Van Dorn, Pasadena, Calif. Electric switch. 1,752,763; Apr. 1.
Van Dorn, Herbert E., Chicago, Ill., assignor to W. E. Van Dorn, Pasadena, Calif. Combined coupler head and buffer. 1,752,764; Apr. 1.
Van Dorn, William E. (See Van Dorn, Herbert E., assignor.)
Van Howe, Desire H., Royal Oak, Mich. Slide-way for window panes. 1,753,038; Apr. 1.
Van Sant, Robert H., Chicago, Ill. Applicator for toilet preparations. 1,752,765; Apr. 1.
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Visitacion, Aniceto R., assignor of one-fourth to G. W. Weigel and one-half to L. G. Weigel, New York, N. Y. Lighter. 1,752,658; Apr. 1.
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Warnock, Wallace S. (See Bryant, G. F., and Warnock.)
Warnock, Wallace S., Chicago, Ill. Printing-press bed. 1,752,767; Apr. 1.
Waseige, Charles R., Ruell, assignor to Henri et Maurice Farman, Billancourt, France. Steering mechanism for motor vehicles. 1,752,624; Apr. 1.
Watson, George, Beaconsfield, British Columbia, Canada. Locking device. 1,752,824; Apr. 1.
Wayne Pump Company, The. (See Cleary, Andrew W., assignor.)
Wayne Pump Company, The. (See Townsend, W. S., and Parker, assignors.)
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Winthrop Chemical Company Inc. (See Ludwig, W., and Schaumann, assignors.)
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Wreschner, Marie, and L. F. Loeb, assignors to the firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Composition of matter and producing same. 1,752,826; Apr. 1.
Wright, Gordon A., Syracuse, N. Y. Building floor. 1,752,583; Apr. 1.
Wyatt, Floyd, Whittenberg, Tex. Gas burner. 1,753,141; Apr. 1.
Wyler, Joseph A., Allentown, Pa., assignor to Trojan Powder Company. Artificial fuel. 1,752,985; Apr. 1.
Yocum, Elmer L., Shamokin, and E. T. Wardrop, Bear Gap, Pa. Switch for directional signals. 1,753,078; Apr. 1.
Yoho, Walter A. (See Clark, John L., assignor.)
Young, William J., Cleveland, Ohio. Roofing construction. 1,752,827; Apr. 1.
Youngstown Steel Door Company, The. (See Barrows, Allan S., assignor.)
Youngstown Steel Door Company, The. (See Ditchfield, Frank, assignor.)
Zabel, William P., Cleveland Heights, Ohio, assignor to General Electric Company. Method and apparatus for mounting filaments. 1,752,828; Apr. 1.
Zabriskie, William F., assignor to Gabriel Steel Company, Detroit, Mich. Securing clip for metallic lath. 1,752,517; Apr. 1.
Zapert, Joseph, Brooklyn, N. Y. Combination key and dial lock. 1,752,407; Apr. 1.
Zapf, Georg, Riehlerwall, Cologne, assignor to Felten & Guilleaume Carlswerk Actiengesellschaft, Cologne-Mulheim, Germany. Submarine cable with pressure-protecting covering. 1,753,079; Apr. 1.
Zehnder, Paul, assignor to the firm Internationale Siegwartbalkengesellschaft in Lusern, Lucerne, Switzerland. Device for the production of tubes, poles, and the like from reenforced concrete centrifugally. 1,752,626; Apr. 1.
Zehnder, Paul, assignor to the firm Internationale Siegwartbalkengesellschaft in Lusern, Lucerne, Switzerland. Device for producing reenforced-concrete tubes by the action of centrifugal force. 1,752,627; Apr. 1.
Zein, Otto, Berlin, Germany. Tube expander. 1,752,408; Apr. 1.
Zelt, Elmer J., Fort Wayne, Ind., assignor to General Electric Company. Variable-voltage transformer. 1,752,873; Apr. 1.
Zeyen, Karl. (See Lex, Rudolf, assignor.)
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Guide rail for shaping-machine worktables. 1,753,142; Apr. 1.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Shaping-machine work-table cross-rail guide. 1,753,143; Apr. 1.
Zindel, Ernst, assignor to H. Junkers, Dessau, Germany. Flying boat. 1,752,874; Apr. 1.
Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Cooker. 1,752,709; Apr. 1.
Zwilling, Arthur J., Valley Stream, and J. Faist, Glendale, N. Y. Optician's pliers. 1,753,080; Apr. 1.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1st DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Absorber, Rebound. L. G. Recchia. 1,752,694; Apr. 1.
Accelerator control. H. A. Myers. 1,752,501; Apr. 1.
Accounting apparatus and system. E. L. Reller and V. R. A. Stroh. 1,752,394; Apr. 1.
Acid sludge, Continuously hydrolyzing. R. A. Halloran, W. N. Davis, and G. A. Davidson. 1,752,555; Apr. 1.
Adsorbable substances, Recovery of. A. B. Ray and G. T. Felbeck. 1,753,067; Apr. 1.
Adsorbent materials, Preparing. H. E. Bierce. 1,752,721; Apr. 1.
Advertising apparatus. J. C. Mitchell. 1,752,570; Apr. 1.
Advertising apparatus. T. J. McCleave. 1,752,919; Apr. 1.
Advertising apparatus, Illuminative. J. D. Henderson. 1,753,049; Apr. 1.
Aeroplane wing. C. W. Vincent. 1,753,075; Apr. 1.
Aeroplane-wing construction. W. M. Cross. 1,752,421; Apr. 1.
Agitation and settling apparatus. F. A. Downes. 1,752,789; Apr. 1.
Agitation and settling process. C. P. Hoover and F. A. Downes. 1,752,795; Apr. 1.
Aircraft covering. I. M. Jacobsohn and S. Truscott. 1,752,637; Apr. 1.
Aircraft, Floating dock for water. P. Degn. 1,752,804; Apr. 1.
Airfoil construction. H. H. Semmes. 1,752,701; Apr. 1.
Air-heating furnace. C. Becker and F. Kleinheksel. 1,752,938; Apr. 1.
Air lock and conveyer system. W. D. Phillips. 1,753,158; Apr. 1.
Airplane. G. R. Engledow. 1,753,112; Apr. 1.
Airplane-wing section. L. W. Gobble. 1,752,378; Apr. 1.
Airship. H. J. Ross. 1,753,068; Apr. 1.
Airship construction. V. A. M. E. Brahy. 1,752,831; Apr. 1.
Alarm: *See*—
  Locking and brake alarm.
Alcohol, Purifying phenylethyl. E. C. Britton. 1,752,365; Apr. 1.
Alkali chlorides, Cell for electrolyzing solutions of. E. Krebs. 1,753,123; Apr. 1.
Alkali, Recovering. R. H. McKee. 1,753,128; Apr. 1.
Alloy. J. E. Woodward. 1,753,162; Apr. 1.
Alloy, Pen-point. J. E. Woodward. 1,753,161; Apr. 1.
Aluminous materials for the production of aluminum sulphate and alumina therefrom, Treating. B. R. F. Kjellgren. 1,752,599; Apr. 1.
Aluminous materials, Treating. B. R. F. Kjellgren. 1,752,641; Apr. 1.
Aluminum chloride, Manufacture of anhydrous. W. R. Anstin and J. N. Smith. 1,752,936; Apr. 1.
Amines, Aminoalkylation of. W. Schulemann, F. Schönhöfer, and A. Wingler. 1,752,617; Apr. 1.
Amplifier. P. C. Gardiner. 1,752,839; Apr. 1.
Amplifier, Sound. F. C. Hinckley. 1,752,526; Apr. 1.
Anchor, Crosshead-guide. C. J. Black. 1,753,107; Apr. 1.
Anchoring device. J. H. Phillips. 1,752,999; Apr. 1.
Animal organs and preparing the same, Solution of the active principle from. W. Ludwig and O. Schaumann. 1,752,916; Apr. 1.
Annealing, Apparatus for. H. M. Robertson. 1,752,697; Apr. 1.
Antenna system. L. A. Taylor. 1,752,864; Apr. 1.
Apparel, Wearing. A. A. Person. 1,752,927; Apr. 1.
Applicator for toilet preparations. R. H. Van Sant. 1,752,765; Apr. 1.
Articles, Method and apparatus for drying. W. C. Stevens. 1,753,176; Apr. 1.
Assembly unit. H. Junkers. 1,753,051; Apr. 1.
Atmospheric disturbance, Reduction of. L. A. Kelley. 1,752,345; Apr. 1.
Atmospheric disturbance, Reduction of. F. A. Leibe. 1,752,347; Apr. 1.
Atmospheric interference, Reduction of. L. A. Kelley. 1,752,344; Apr. 1.
Automobile camp shelter. N. J. N. Olson. 1,752,571; Apr. 1.
Automobile or highway signal. J. C. Nordgran. 1,752,805; Apr. 1.
Automobile wheel. E. R. Tietz. 1,752,819; Apr. 1.
Auto seat, Convertible. F. N. Lee. 1,752,441; Apr. 1.
Awning. H. E. Williams. 1,753,102; Apr. 1.
Awning or curtain. W. B. McSpadden. 1,752,610; Apr. 1.
Axle for self-propelled vehicles. B. H. Urschel. 1,753,037; Apr. 1.
Bag: *See*—
  Fitted traveling bag. Paper bag.
  Multiple-walled bag.
Ball and making the same, Packaged inflated playing. M. B. Reach. 1,752,695; Apr. 1.
Balls, Making. J. R. Gammeter. 1,752,735; Apr. 1.
Banjo. C. L. Dewey. 1,752,788; Apr. 1.
Bar: *See*—
  Supporting bar.
Barge-coal-loading apparatus. H. Adams. 1,752,410; Apr. 1.
Base plate for railroad-track structures. G. W. Muller. 1,752,451; Apr. 1.
Basket, Centrifugal. R. Roberts. 1,753,023; Apr. 1.
Baskets, Method and apparatus for making. A. H. Schmidtke. 1,752,856; Apr. 1.
Battery-plate material, Reclaiming. W. C. Smith. 1,752,356; Apr. 1.
Battery sealing composition, Dry-cell-. H. Bothenberg and S. L. Henken. 1,752,351; Apr. 1.
Beacon, Unattended. P. R. Bassett. 1,753,144; Apr. 1.
Bearing and mounting therefor, Roller. W. B. Bronander. 1,752,777; Apr. 1.
Bearing, Roller. B. A. Ryan. 1,752,616; Apr. 1.
Bench: *See*—
  Box-bidding bench.
Bending machine. W. C. Stevens. 1,753,177; Apr. 1.
Binder for fuel agglomerates. F. M. Crossman. 1,752,838; Apr. 1.
Block: *See*—
  Connection block.
Blower. F. G. Romig. 1,752,810; Apr. 1.
Board: *See*—
  Writing board.
Boat, Flying. E. Zindel. 1,752,874; Apr. 1.
Boat hull. P. Wetch. 1,752,406; Apr. 1.
Boats, Safety apparatus for. F. A. Severling. 1,752,354; Apr. 1.
Bodies, Construction of closed vehicle. T. P. Lohrman. 1,753,172; Apr. 1.
Body and hood, Combined automobile. R. G. F. Loewy. Des. 80,844; Apr. 1.
Body construction, Grand-piano-. C. Loitsch. 1,752,676; Apr. 1.
Body, Convertible. H. Smith. 1,752,511; Apr. 1.
Boiler: *See*—
  Heat boiler. Water boiler.
Boiler. B. J. Morrison. 1,752,389; Apr. 1.
Bolster. G. T. Johnson and H. W. Stertzbach. 1,752,741; Apr. 1.
Boot or shoe and shank stiffener therefor. H. Bee. 1,752,775; Apr. 1.
Bottle. O. C. Noble. Des. 80,853; Apr. 1.
Bottle capper. S. R. Blackstone. 1,752,973; Apr. 1.
Bottle or similar article. G. F. Gallagher. Des. 80,868; Apr. 1.
Bottles, Making flat. C. B. Garwood. 1,752,481; Apr. 1.
Bowl, Mixing. R. M. Kerr. 1,753,121; Apr. 1.
Bowl or similar article, Glass. W. C. McCartney. Des. 80,848; Apr. 1.
Box: *See*—
  Calling-card box. Outlet box.
  Cigar box.
Box. W. L. Krumm. Des. 80,843; Apr. 1.
Box-bidding bench. R. A. Squier. 1,752,707; Apr. 1.
Brace: *See*—
  Steel lay brace.
Brace for Windsor chairs and the like. T. H. Wittliff. 1,752,545; Apr. 1.
Bracket for cabinets. A. H. Levene. 1,753,012; Apr. 1.
Braiding machine. R. C. Kivley. 1,752,437; Apr. 1.
Brake: *See*—
  Hand brake.
Brake. J. Glueck. 1,752,377; Apr. 1.
Brake. J. J. Wharam. 1,752,516; Apr. 1.
Brake construction. A. Y. Dodge. 1,752,478; Apr. 1.
Brake equipment, Railway-. W. C. Sleeman. 1,752,704; Apr. 1.
Brake for vehicles, Back-up. J. A. Smith. 1,752,618; Apr. 1.
Brake rigging, Pin or bolt retainer for. W. T. Sparrow. 1,752,544; Apr. 1.
Brake shoe, Locomotive. E. Nagle. 1,752,686; Apr. 1.
Brief case. L. Stein. 1,752,810; Apr. 1.
Brooder house. E. C. Dickey. 1,753,082; Apr. 1.
Brush-making machine. E. B. Page. 1,752,926; Apr. 1.
Bucket and equipment for carrying same. E. Trotten. 1,753,073; Apr. 1.
Bucket excavator. E. P. Shnabie. 1,752,510; Apr. 1.
Buckle. W. L. Myers. Des. 80,851; Apr. 1.
Buckle, Belt. C. H. Burnett. 1,752,414; Apr. 1.
Bumper. L. Caruso. 1,752,731; Apr. 1.
Bumper, Automobile. J. M. Howe. 1,752,881; Apr. 1.
Bumper for brooms. A. D. Sund. 1,752,401; Apr. 1.
Bumper leg for brooms. A. D. Sund. 1,752,400; Apr. 1.

Buoy, Swimmer's. W. R. Denbo. 1,752,969; Apr. 1.
Burner: *See*—
  Gas burner. Hydrocarbon burner.
Burners, Regulating apparatus for oil. A. J. Baird. 1,752,548; Apr. 1.
Button. J. M. Clark and I. D. Ford. 1,752,418–20; Apr. 1.
Button, Collar. D. Nachtigal. 1,753,180; Apr. 1.
Cabinet, Display. R. C. Chapman. 1,752,869; Apr. 1.
Cabinet, Drying. E. Hutchinson, jr. 1,752,797; Apr. 1.
Cabinet, Refrigeration. H. C. Folger. 1,752,553; Apr. 1.
Cabinet, Sewing. V. R. Carlson. 1,752,834; Apr. 1.
Cabinet, Vending. D. C. Fonda. 1,752,635; Apr. 1.
Cable. C. R. Boggs. 1,752,974; Apr. 1.
Cable, Signaling. O. E. Buckley. 1,752,418; Apr. 1.
Cable with pressure-protecting covering, Submarine. G. Zapf. 1,753,079; Apr. 1.
Cables, Apparatus for producing electrical. H. R. Massingham. 1,752,497; Apr. 1.
Calculating apparatus. A. E. Vethe. 1,752,766; Apr. 1.
Calculating machine. C. D. Rowley and W. Jackson. 1,753,093; Apr. 1.
Calling-card box, Coin-controlled. G. Antizzo and G. Latorraca. 1,752,718; Apr. 1.
Camera. T. W. Case. 1,753,002; Apr. 1.
Camera for color cinematography. P. D. Brewster. 1,752,477; Apr. 1.
Can cap-seaming mechanism, Square-. W. Cameron. 1,752,328; Apr. 1.
Can-closing machine. A. L. Kronquest. 1,752,912; Apr. 1.
Cane mill. F. Maxwell. 1,752,533; Apr. 1.
Caponizing instrument. C. F. Cridland. 1,752,891; Apr. 1.
Car construction. O. C. Duryea. 1,752,335; Apr. 1.
Carburation device. F. C. F. Portail. 1,752,506; Apr. 1.
Carburetor. A. N. Bondesen. 1,753,106; Apr. 1.
Carburetor. R. F. and O. H. Ensign. 1,752,551; Apr. 1.
Carburetor-controlling device. C. W. Spohr. 1,752,817; Apr. 1.
Carburetor for internal-combustion engines. F. Monier. 1,752,959; Apr. 1.
Carrier: *See*—
  Egg carrier. Thread carrier.
Carton-discharging device. A. F. Schmidt. 1,752,352; Apr. 1.
Carton Packing. G. G. Penrose. 1,752,504; Apr. 1.
Cartridge cut-out. T. Lang. 1,752,955; Apr. 1.
Case: *See*—
  Brief case. Key case.
Case and container. S. G. Marshutz and P. Sockett. 1,753,054; Apr. 1.
Casing, Signal-light. A. Coviello. Des. 80,829; Apr. 1.
Casket handle. B. A. Utter. 1,752,868; Apr. 1.
Caskets, Adjustable cot and headrest for burial. J. B. Cole. 1,753,109; Apr. 1.
Caster. W. F. Herold. 1,752,983; Apr. 1.
Caster. W. G. Johnson. 1,752,742; Apr. 1.
Caster. W. G. Johnson. 1,753,183; Apr. 1.
Catafalque. J. A. and L. A. Weber. Des. 80,867; Apr. 1.
Catamaran, Swimming. M. M. Brown. 1,752,630; Apr. 1.
Catch, Safety. I. Hansen. 1,752,987; Apr. 1.
Cellulose acetate, Producing. A. Russell and J. F. Hegeman. 1,752,853; Apr. 1.
Cellulose by an organic liquid and the product thereof, Replacing the water in a water-moist. E. Hubert, A. Röst-Grande, and E. Correns. 1,752,596; Apr. 1.
Cement and making same. L. J. D. Healy. 1,752,557; Apr. 1.
Chair cushion. B. B. Felix. 1,752,295; Apr. 1.
Check protector. M. T. Lappin. 1,752,674; Apr. 1.
Cheese, Dehydrating. A. G. Day. 1,752,521; Apr. 1.
Chloride, Electrolysis of ferrous. S. I. Levy. 1,752,348; Apr. 1.
Chlorinating apparatus. W. C. Blackmond. 1,752,728; Apr. 1.
Choker hook. W. C. Bruton. 1,752,367; Apr. 1.
Chromates, Manufacture of. O. F. Tarr. 1,752,863; Apr. 1.
Cigar box, Wooden. H. Leiman. 1,752,601; Apr. 1.
Cigarette paper, Means for counter rolling a. M. P. E. Hohn. 1,752,340; Apr. 1.
Cigarette-rod machines, Sharpening-roller arrangement for the revolving sickle knives in. M. P. E. Hohn. 1,752,341; Apr. 1.
Circuit closer. W. Sparks and L. E. Johnson. 1,753,029; Apr. 1.
Circuit controller. J. J. Ruddick. 1,752,812; Apr. 1.
Circuit, Electrical. F. S. Jones. 1,752,639; Apr. 1.
Cistern for liquids, Automatic. O. Graetzer. 1,752,936; Apr. 1.
Clamp. M. C. Morris. 1,753,057; Apr. 1.
Classifier, Hydraulic. A. W. Fahrenwald. 1,752,791; Apr. 1.
Clip: *See*—
  Conductor-holding clip. Spoon-holding clip.
  Paper clip.
Clip for metallic lath, Securing. W. F. Zabriskie. 1,752,517; Apr. 1.
Clock. W. E. Porter. 1,752,951–2; Apr. 1.
Clock, Secondary. J. W. Bryce. 1,752,939; Apr. 1.
Closure, Bottle. W. W. Mason. 1,752,603; Apr. 1.
Closure for water bags. M. B. Reach. 1,752,808; Apr. 1.
Closure, Handle-controlled slot. C. W. Nixon. 1,753,092; Apr. 1.
Cloth guiding and stretching device. B. A. Rusden. 1,752,966; Apr. 1.
Clothes car. M. V. Newhouser. 1,752,687; Apr. 1.
Clothes rack. H. Pintel. 1,752,691; Apr. 1.
Clutch. P. R. Hahnemann. 1,752,843; Apr. 1.
Clutch. J. L. Peterson. 1,753,085; Apr. 1.
Clutch for tire conveyers, Safety. F. H. Tenney. 1,753,178; Apr. 1.
Clutch, Hydraulic. G. J. Streznuski. 1,752,862; Apr. 1.
Clutch mechanism. H. A. Tuttle. 1,752,318; Apr. 1.
Clutch mechanism, Automatic. D. A. Barnett. 1,752,937; Apr. 1.
Coal-briquette machine. H. G. Layng. 1,752,644; Apr. 1.
Coal-loading device. J. A. O'Neil. 1,752,458; Apr. 1.
Coal-loading machine. A. C. Wilcox. 1,752,714; Apr. 1.
Coating, Welding-rod. W. J. Hammers. 1,752,793; Apr. 1.
Coin-controlled mechanism. C. W. Nixon. 1,753,087; Apr. 1.
Collar. R. Hunter. 1,752,796; Apr. 1.
Combustion chamber. H. B. Cannon. 1,752,518; Apr. 1.
Composition for coating vitreous articles. A. M. Hageman and A. F. Lindstrom. 1,752,792; Apr. 1.
Composition, Moldable. A. Hoche. 1,753,010; Apr. 1.
Composition of matter and its preparation. F. S. Malm. 1,752,531; Apr. 1.
Composition of matter and producing same. M. Wreschner and L. F. Loeb. 1,752,826; Apr. 1.
Concrete-block machine. C. Dietrichs. 1,752,373; Apr. 1.
Concrete foot for wooden poles. F. Nitzsche. 1,753,063; Apr. 1.
Concrete tubes by the action of centrifugal force, Device for producing reenforced-. P. Zehnder. 1,752,627; Apr. 1.
Condenser. M. H. Bennett. 1,753,001; Apr. 1.
Conductor-holding clip. E. S. Lindmark. 1,753,013; Apr. 1.
Conduit assembly and making same, Flexible. I. Cowles. 1,752,976; Apr. 1.
Connecter. R. O. Wertz. 1,753,179; Apr. 1.
Connecting rod, Locomotive. J. Kindervater. 1,752,954; Apr. 1.
Connection and clamp, Detachable. W. M. Molden. 1,753,129; Apr. 1.
Connection block. J. W. Tennant. 1,752,469; Apr. 1.
Connections for compensating, System of. J. Ossanna, H. Graner, and F. Hofmann. 1,752,649; Apr. 1.
Container, Bottle. C. T. Neitzel. 1,752,502; Apr. 1.
Container cap, Self opening and closing. R. R. Rundell. 1,752,700; Apr. 1.
Control device. G. W. McKee. 1,752,584; Apr. 1.
Control mechanism for coin-controlled machines. C. W. Nixon. 1,753,089; Apr. 1.
Control system. W. M. Scott. 1,752,353; Apr. 1.
Control system. W. N. Gittings. 1,752,842; Apr. 1.
Conveyer for use with furnaces. W. M. Hepburn. 1,752,432; Apr. 1.
Cooker. H. A. Ziola. 1,752,769; Apr. 1.
Cooker, Steam. H. C. Biette. 1,752,584; Apr. 1.
Cooling, drying, and lighting fixture. W. A. Brown and E. A. Corbin, jr. 1,752,778; Apr. 1.
Copyholder. A. W. Caps. 1,752,329; Apr. 1.
Copyholder. G. Stevenson. 1,752,899; Apr. 1.
Cork extractor. D. Rosati. 1,753,026; Apr. 1.
Corn shaver. G. G. Niedomanski. 1,753,086; Apr. 1.
Counting and grouping mechanism for conveyers, Automatic. S. Olson. 1,752,540; Apr. 1.
Coupler head and buffer, Combined. H. E. Van Dorn. 1,752,764; Apr. 1.
Coupling: *See*—
  Hose coupling.
Coupling device, Variable. L. A. Hammarlund. 1,753,182; Apr. 1.
Cover-retaining means. R. A. Swanson. 1,752,710; Apr. 1.
Crank-case heater. T. P. Hannegan. 1,752,504; Apr. 1.
Crank-shaft assembly. G. D. Wilson. 1,752,625; Apr. 1.
Crepe-steaming rack. L. T. Carpenter. 1,752,884; Apr. 1.
Crossing signal, Railroad-. E. H. Englehorn. Des. 80,832; Apr. 1.
Crutch attachment. T. E. Payne. 1,753,065; Apr. 1.
Cup dispenser, Drinking-. H. A. Miller. 1,752,607; Apr. 1.
Currents, Controlling alternating. A. D. Eitzen. 1,752,944; Apr. 1.
Curtain drier and stretcher. C. L. Roosevelt. 1,753,025; Apr. 1.
Cushion: *See*—
  Chair cushion.
Cutter: *See*—
  Slot cutter. Thread cutter.
Cylinder-forming machine. W. R. Myers and B. O. Opits. 1,752,995; Apr. 1.
Cylinders, Process and tool for surfacing blanket. A. E. Cilley. 1,752,940; Apr. 1.
Dandy roll. W. K. Trotman. 1,752,311; Apr. 1.

Detecting grounds, Apparatus for. J. Kopeliowitsch and J. Stoecklin. 1,752,991; Apr. 1.
Detector: *See*—
Radio program detector.
Device for protection of goods displayed in show windows against theft. M. D. Schneyer and S. Cochin. 1,752,578; Apr. 1.
Die: *See*—
Printing die.
Dielectric substance. A. R. Lukens. 1,752,917; Apr. 1.
Digger: *See*—
Potato digger.
Direction signal. C. Dabney. 1,753,110; Apr. 1.
Dish or similar article, Candy. W. C. McCartney. Des. 80,847; Apr. 1.
Disinfectant, Seed. M. Engelmann. 1,752,424; Apr. 1.
Disintegrating and conveying materials, Device for. A. Farner. 1,752,902; Apr. 1.
Disk wheel. H. W. Krans. 1,752,992; Apr. 1.
Dispenser, Grease. R. H. Moulton. 1,752,537; Apr. 1.
Dispenser, Sugar. I. Bergelson. 1,752,720; Apr. 1.
Dispensing device. F. Carroll. 1,752,885; Apr. 1.
Dispensing machines, Controlling mechanism for. C. W. Nixon. 1,753,091; Apr. 1.
Dispensing vessel, Glass. F. S. Barbiers. 1,752,291; Apr. 1.
Display device. L. S. Geer. 1,753,004; Apr. 1.
Display device. R. Jelinek. 1,752,952; Apr. 1.
Display device, Package-. J. J. Scherotto. 1,752,655; Apr. 1.
Display rack. W. T. Hormes. 1,752,595; Apr. 1.
Display rack. J. C. Huffman. 1,752,985; Apr. 1.
Doffing mechanism for spinning, twisting, and like machines. J. P. Mackie. 1,752,678; Apr. 1.
Dolly. E. Karfiol. Des. 80,841; Apr. 1.
Doll. C. Stein and W. M. Heller. 1,753,032; Apr. 1.
Door, Car. A. S. Barrows. 1,752,286; Apr. 1.
Doorcheck. F. K. Eastman. 1,752,423; Apr. 1.
Door construction, House-car-. F. Ditchfield. 1,752,334; Apr. 1.
Door for vehicles for removing house refuse. P. Schuberth. 1,753,135; Apr. 1.
Door, Heater. J. H. Sandell. Des. 80,855; Apr. 1.
Door mechanism. A. N. Otis. 1,752,806; Apr. 1.
Door-operating mechanism. A. C. Farr. 1,753,083; Apr. 1.
Door viewer. H. Spector. Des. 80,866; Apr. 1.
Dowel for concrete structures. B. Briody. 1,752,327; Apr. 1.
Dress. D. Long. Des. 80,845–6; Apr. 1.
Drier: *See*—
Needle drier.
Drill. T. Grant. 1,752,524; Apr. 1.
Drill and bit, Core. W. I. McLaughlin. 1,752,388; Apr. 1.
Drill-feeding device. C. C. Hansen. 1,753,007; Apr. 1.
Drill or screw driver, Hand. H. E. Simson. 1,752,703; Apr. 1.
Drilling-machine spindles, Feeding device for. F. C. Spencer. 1,752,465; Apr. 1.
Drilling machines, Work-feeding device for. J. S. Stull. 1,752,468; Apr. 1.
Drive for high-speed spindles. C. T. Raule. 1,752,542; Apr. 1.
Driving mechanism for machines. G. H. Amonsen. 1,752,411; Apr. 1.
Drum. J. A. Meyer. 1,752,568; Apr. 1.
Dyeing apparatus. L. A. Uttrich. 1,752,712; Apr. 1.
Dyestuffs containing chromium. H. Kämmerer. 1,753,120; Apr. 1.
Economizer. J. R. Nason. 1,752,452; Apr. 1.
Edge trimmer. A. Ruebel. 1,753,132; Apr. 1.
Egg beater, Demountable. J. A. Pardini and I. Andreotti. 1,752,650; Apr. 1.
Egg carrier. C. L. Rice. 1,752,574; Apr. 1.
Electric machine, Double-speed, synchronous, dynamo- R. W. Wieseman. 1,752,871; Apr. 1.
Electric switch. E. F. Mekelburg. 1,753,016; Apr. 1.
Electric switch. P. P. Quayle. 1,752,930; Apr. 1.
Electric switch. H. E. Van Dorn. 1,752,763; Apr. 1.
Electric systems, Protection of. G. C. Cree. 1,752,942; Apr. 1.
Electric systems, Protection of. R. H. Park. 1,752,807; Apr. 1.
Electric tapper, Portable. A. G. Decker. 1,752,422; Apr. 1.
Electric waves, Apparatus for producing. J. De Beaumont and E. H. Blum. 1,752,632; Apr. 1.
Electrical connection. I. E. McCabe. 1,752,957; Apr. 1.
Electrical leakage, Prevention of. E. A. Lederer. 1,752,748; Apr. 1.
Electrical length of paths for the transmission of electrical energy, Method and apparatus for comparing and adjusting the. F. A. Hubbard. 1,752,528; Apr. 1.
Electrical plug and socket. W. Nonnenman. 1,753,064; Apr. 1.
Electrical precipitator. G. E. McCloskey. 1,752,920; Apr. 1.
Electrical protective apparatus. W. Walty. 1,752,970; Apr. 1.
Electrical reproducing device. F. L. Dyer. 1,752,943; Apr. 1.
Electron-discharge device and getter therefor. E. A. Lederer. 1,752,747; Apr. 1.
Elevator-cab construction. C. C. Campbell. 1,752,661; Apr. 1.
Elevator leg. R. J. and J. L. Owens. 1,752,612; Apr. 1.
Emblem or similar article. L. M. Goodman. Des. 80,869; Apr. 1.
Emulsions, Manufacture of bituminous. J. S. Miller, jr. 1,752,449; Apr. 1.
Engine: *See*—
Internal-combustion engine. Oil-burning engine.
Engine of the fuel-injection type, Reversible internal-combustion. G. Pielstick. 1,753,020; Apr. 1.
Engine-starting apparatus. R. Chilton. 1,752,835; Apr. 1.
Engines, Process and apparatus for starting internal-combustion. W. Riehm. 1,753,021; Apr. 1.
Envelope-filling machine. H. B. Collins. 1,752,784; Apr. 1.
Envelope machine. A. Olgay. 1,752,608; Apr. 1.
Escutcheon for control dials. R. C. Enderwood. Des. 80,831; Apr. 1.
Essentials from coffee and other substances, Extracting. G. W. Tarkington. 1,752,761; Apr. 1.
Exercising apparatus. H. Blickman. 1,752,412; Apr. 1.
Exhauster fan, Device for improving the aerodynamic efficiency of an. E. N. Fales. 1,752,427; Apr. 1.
Extractor: *See*—
Cork extractor.
Extrusion machine. B. M. A. Trebes. 1,752,471; Apr. 1.
Fabric and making same, Cork-filled H. Leibe. 1,752,914; Apr. 1.
Fan unit. G. de Bothezat. 1,752,372; Apr. 1.
Fastener, Cord. H. I. Beardsley and H. R. Clarke. 1,752,585; Apr. 1.
Fastener, Cuff. C. V. Chuprin. 1,752,732; Apr. 1.
Fastener, Rail and tie plate. G. W. Muller. 1,752,450; Apr. 1.
Fastener, Waterproof closure. H. C. Specter. 1,752,464; Apr. 1.
Fasteners, Process of and blank for use in making sliders for separable. G. E. Prentice. 1,752,928; Apr. 1.
Fastening device, Brooch-. G. A. Siefken. 1,752,858; Apr. 1.
Feeding and stacking machine. L. L. Matthews. 1,752,648; Apr. 1.
Feeding and stacking method and machine. C. B. Maxson. 1,752,681; Apr. 1.
Filaments, Method and apparatus for mounting. H. de Jong. 1,752,895; Apr. 1.
Filaments, Method and apparatus for mounting. W. P. Zabel. 1,752,828; Apr. 1.
File, Vertical record. L. E. Hutchings. 1,752,300; Apr. 1.
Films, Multicolor cinematograph and other. J. B. Thornton. 1,753,140; Apr. 1.
Filtering system and apparatus, Gasoline-. B. V. Stoll. 1,752,709; Apr. 1.
Finishing machine. F. Hinnekens. 1,752,949; Apr. 1.
Firearms, Trigger apparatus for the single and continuous fire of automatic. L. Stange. 1,753,072; Apr. 1.
Fire-detecting apparatus. G. M. and A. P. Marr. 1,752,496; Apr. 1.
Fire extinguishers, Release mechanism for. H. W. Partlow. 1,752,508; Apr. 1.
Fish lure. A. J. Sobecki. 1,752,706; Apr. 1.
Fishing device. C. V. See. 1,752,297; Apr. 1.
Fishing rod. S. T. Thorpe and N. P. Peterson. 1,752,865; Apr. 1.
Fitted traveling bag. R. Herrimann. 1,752,948; Apr. 1.
Fittings and pipe system for soot cleaners. F. W. Linaker and T. M. Bruback. 1,752,442; Apr. 1.
Flask: *See*—
Molding flask.
Flexible mat. H. W. Hollenbeck. 1,752,846; Apr. 1.
Floor, Building. G. A. Wright. 1,752,683; Apr. 1.
Floor-finishing machine. A. Robertson. 1,752,965; Apr. 1.
Flotation machine. A. L. Howard. 1,752,434; Apr. 1.
Flue bushing. J. C. Tatarek. 1,753,098; Apr. 1.
Folding chair. C. J. Marson. 1,752,306; Apr. 1.
Folding machine. S. J. Campbell. 1,752,415; Apr. 1.
Folding mechanism. W. Evensen. 1,752,426; Apr. 1.
Folding table. J. Kovats. 1,752,304; Apr. 1.
Forging furnace, Rotary. R. M. Hortvet. 1,752,433; Apr. 1.
Fountain: *See*—
Water fountain.
Frame: *See*—
Window frame.
Frame for holding photographic films and plates. J. E. Skell. 1,752,814; Apr. 1.
Frame for license plates. W. R. Busenbark. 1,752,883; Apr. 1.
Frames and the like, Differential motion for roving. W. C. Stewart. 1,752,708; Apr. 1.
Fuel, Artificial. J. A. Wyler. 1,752,935; Apr. 1.
Fuel bunker for the steam generators of locomotives, marine and stationary engines, and plant. R. H. Whitelegg. 1,752,870; Apr. 1.
Fuel, Internal-combustion-engine. I. Bourie. 1,752,724; Apr. 1.
Fuelliser for air withdrawn from suction-actuated power actuators. C. S. Bragg and V. W. Kliesrath. 1,753,168; Apr. 1.
Fungicide. K. Brodersen and W. Ext. 1,752,293; Apr. 1.

Furnace: *See*—
Air-heating furnace. Gas furnace.
Forging furnace. Induction furnace.
Furnace and operating the same, Muffle. W. W. Kemp. 1,752,800; Apr. 1.
Furnaces, Checkerwork for. F. H. Loftus and T. N. Kurts. 1,752,494; Apr. 1.
Furniture base. R. F. Taylor. 1,752,818; Apr. 1.
Fuse. A. L. Eustice. 1,753,046; Apr. 1.
Fuse tongs. H. D. Grinnell. 1,753,181; Apr. 1.
Garden implement. T. C. Strawn. 1,752,467; Apr. 1.
Garter. M. Lederman. 1,753,125; Apr. 1.
Gas burner. F. Wyatt. 1,753,141; Apr. 1.
Gas electric drive. F. E. Queeney. 1,752,931; Apr. 1.
Gas furnace. C. E. Schultz. 1,752,460; Apr. 1.
Gas-producing apparatus. G. R. Roesch. 1,752,851; Apr. 1.
Gas-purification process. D. L. Jacobson. 1,752,382; Apr. 1.
Gas reservoir. K. Jagschitz. 1,752,383; Apr. 1.
Gauge: *See*—
Pressure gauge.
Gear, Landing. H. C. Richardson. 1,752,895; Apr. 1.
Gear, Locomotive valve. J. D. Purdy. 1,752,929; Apr. 1.
Gear-testing machine. C. H. Logue. 1,753,014; Apr. 1.
Glass, Cutting laminated. P. A. McCullough. 1,752,567; Apr. 1.
Glove, Boxing. F. Diesterle. 1,752,972; Apr. 1.
Graders, Ditch cutter for. D. C. and O. Q. Hinds. 1,753,150; Apr. 1.
Grid for chemical storage batteries. P. Pettinelli. 1,752,968; Apr. 1.
Grinder, Feed. C. D. Ammon and E. W. Wilcox. 1,752,971; Apr. 1.
Grinder, Hammer-mill feed. C. D. Ammon. 1,752,290; Apr. 1.
Grinder, Universal. E. C. Oliver. 1,752,961; Apr. 1.
Grinding, pulverizing, or disintegrating mill. W. A. Cloud. 1,752,883; Apr. 1.
Grommet for pneumatic tires. P. M. Bourdon. 1,753,041; Apr. 1.
Guayule, etc., Treatment of. D. Spence. 1,753,184; Apr. 1.
Guide attachment for presser bars. R. Bankler. 1,752,323; Apr. 1.
Guide device. A. L. Ligon. 1,753,126; Apr. 1.
Guide for straightening rolls. G. A. Wise. 1,752,823; Apr. 1.
Guide rail for shaping-machine worktables. W. F. Zimmermann. 1,753,142; Apr. 1.
Hairpin. E. D. Davis. 1,752,893; Apr. 1.
Halogen groups in organic compounds by amino groups, Replacing. K. H. T. Pfister. 1,752,996; Apr. 1.
Hame connecter. A. J. Ellis. 1,753,045; Apr. 1.
Hammer. J. L. Clark. 1,752,588; Apr. 1.
Hammer, Pneumatic. J. T. McGrath. 1,752,448; Apr. 1.
Hand bag. F. J. Quigan. Des. 80,870; Apr. 1.
Hand brake. W. H. Sauvage. 1,753,133; Apr. 1.
Handle: *See*—
Casket handle.
Handle-arresting mechanism for coin-controlled machines. L. H. Larsen and C. W. Nixon. 1,752,643; Apr. 1.
Handrail for fire escapes. R. W. Downes. 1,752,589; Apr. 1.
Hangar for airships. O. Krell. 1,752,911; Apr. 1.
Hanger: *See*—
Radiator hanger.
Harmonica. W. J. Haussler. 1,752,988; Apr. 1.
Harness. H. V. Hanson. 1,752,525; Apr. 1.
Hat. J. Lake, jr. 1,753,052; Apr. 1.
Hatbox, Wardrobe. S. Balin. 1,752,772; Apr. 1.
Haulage apparatus. O. E. Clark. 1,752,338; Apr. 1.
Headlight, Dirigible. W. E. C. Stone. 1,752,861; Apr. 1.
Headlight, Vehicle. A. C. Menningen. 1,752,849; Apr. 1.
Heat-absorbing medium. R. B. Kingman. 1,752,670; Apr. 1.
Heat boiler, Waste-. G. T. Ladd. 1,752,678; Apr. 1.
Heat-control apparatus. J. J. Fagan. 1,752,668; Apr. 1.
Heat treating metals, Apparatus for. H. D. Piper. 1,752,573; Apr. 1.
Heater: *See*—
Crank-case heater. Windshield heater.
Water heater.
Heater. W. G. Nagle and M. Lehman. Des. 80,852; Apr. 1.
Heater appliance, Water-. F. A. Gauger and R. W. Johnson. 1,752,840; Apr. 1.
Heating and humidifying system for food carts. G. A. Lueck. 1,752,749; Apr. 1.
Heating and ventilating apparatus. G. E. Otis. 1,753,156–7; Apr. 1.
Heating system, Central. E. S. Mead. 1,752,684; Apr. 1.
Heel-cover-trimming machine. L. J. Bassoni. 1,752,774; Apr. 1.
Hinge. J. Farver. 1,752,428; Apr. 1.
Hinge device. M. Turnquist. 1,752,212; Apr. 1.
Hoist, Water. T. C. Spelling. 1,753,163–4; Apr. 1.
Holder. R. E. Long. 1,752,645; Apr. 1.
Holder, Bill. L. E. Baer. 1,753,156; Apr. 1.
Holder, Brush. H. C. Aulwes. 1,752,861; Apr. 1.
Holder, Cigarette-package. W. C. Hiering. Des. 80,835; Apr. 1.
Holder, Cloth. W. H. Deubener. 1,752,896; Apr. 1.
Holder, Combined mop and brush. W. A. Smith. 1,752,512; Apr. 1.
Holder for bar candy or the like, Display. G. H. Cardinet. 1,752,519; Apr. 1.
Holder, Key and license. H. Gress. 1,752,880; Apr. 1.
Holding printed matter, Device for. A. A. Ring. 1,752,614; Apr. 1.
Hook: *See*—
Choker hook.
Hub structure for pneumatic wheels. E. Jackson. 1,752,740; Apr. 1.
Humidifiers, Auxiliary air inlet for. J. H. Simunek. 1,752,850; Apr. 1.
Hydrocarbon burner. J. L. Breese, jr. 1,752,727; Apr. 1.
Hydrocarbon motor. L. M. Woolson. 1,752,859; Apr. 1.
Hydrocarbons, Distillation of. H. H. Hewetson. 1,753,149; Apr. 1.
Hydrocarbons from heavy hydrocarbon oils, Production of gas and aromatic. A. S. Ramage. 1,752,692; Apr. 1.
Ice-cream cone. D. Canter. 1,752,729; Apr. 1.
Ice-cream disher. T. Jameson. 1,752,560; Apr. 1.
Ice-cream freezer. C. Taylor. 1,752,582; Apr. 1.
Ignition system. C. Marcus. 1,752,918; Apr. 1.
Ignition systems, Current controller for engine. M. Mallory. 1,752,445; Apr. 1.
Illuminating globe or similar article. H. L. Beyer. Des. 80,827; Apr. 1.
Incinerator. H. Heitman. 1,753,008; Apr. 1.
Index, Card. G. H. Dawson. 1,752,294; Apr. 1.
Indicator: *See*—
Traffic indicator.
Induction furnace. G. A. Chutter. 1,752,887; Apr. 1.
Ingot and making it, Macrocrystal. H. Alterthum. 1,752,877; Apr. 1.
Ink, Nontarnishing metallic. W. F. Smith. 1,752,462; Apr. 1.
Insulating sheets, Producing. R. Karg and J. Weiss. 1,752,561; Apr. 1.
Insulation for electrical conductors. H. G. Witmer. 1,752,872; Apr. 1.
Internal-combustion engine. J. B. Goodwin. 1,752,879; Apr. 1.
Internal-combustion engine. B. C. Stickney. 1,753,159; Apr. 1.
Internal-combustion engine. W. J. Whatley. 1,752,713; Apr. 1.
Iodine into pyridine derivatives, Introduction of. G. Kochendoerfer. 1,753,170; Apr. 1.
Jack. N. A. Boyette. 1,752,776; Apr. 1.
Joint: *See*—
Pipe expansion joint. Rail joint.
Key and dial lock, Combination. J. Zapert. 1,752,407; Apr. 1.
Key case. C. Lorber. 1,752,444; Apr. 1.
Key duplicator. E. Johnson. 1,752,668; Apr. 1.
Kiln roller. O. E. Larson. 1,752,675; Apr. 1.
Knee pad. R. Matheson. 1,753,055; Apr. 1.
Label, Continuous-roll. J. H. Millholland. 1,752,536; Apr. 1.
Labels to packages, Applying. E. L. Smith. 1,752,705; Apr. 1.
Laboratory, Seed-corn-testing. O. P. Tiemann. 1,752,518; Apr. 1.
Lace. B. A. Ball. Des. 80,820–6; Apr. 1.
Lace edging, Embroidered. H. Schwarber. Des. 80,858–64; Apr. 1.
Ladder, Ship's pilot. A. Myerstuen. 1,753,060; Apr. 1.
Lamp base and body, Combined. V. Raffaelli. Des. 80,854; Apr. 1.
Lamp bulbs, Device for placing and removing. H. D. Grinnell. 1,752,737; Apr. 1.
Lamp for road vehicles, Head. J. Ridlington. 1,752,850; Apr. 1.
Lamp, Worker's. L. J. Kann. 1,752,843; Apr. 1.
Latch, Cupboard. C. B. Hurd. 1,752,559; Apr. 1.
Lawn edger. O. B. Pickett. 1,752,505; Apr. 1.
Lever lock. F. E. and A. Q. Smythe. 1,752,465; Apr. 1.
Lighter. A. R. Visitacion. 1,752,658; Apr. 1.
Lighting fixture. I. Rosenblatt. 1,752,554; Apr. 1.
Lighting outfit, Decorative. R. Eckstein. 1,752,662; Apr. 1.
Lighting system, Emergency electric-. G. H. Whittingham. 1,753,101; Apr. 1.
Lightning arrester. L. S. Brach. 1,752,660; Apr. 1.
Linoleum and producing the same, Inlaid. J. Tomec and F. Cubrda. 1,752,402; Apr. 1.
Liquid-dispensing apparatus. A. W. Cleary. 1,752,941; Apr. 1.
Liquid-dispensing arrangement. W. S. Townsend and W. H. Parker. 1,752,984; Apr. 1.
Liquid-processing apparatus. E. B. Nichols and U. G. Todd. 1,753,062; Apr. 1.
Liquids, Apparatus for pumping. F. A. Hatfield. 1,752,739; Apr. 1.
Loading explosives. F. Olsen and C. J. Bain. 1,752,891; Apr. 1.
Lock: *See*—
Lever lock. Tife lock.
Switch lock.
Lock. A. R. Smith. 1,752,948; Apr. 1.
Lock-switch device for automobiles, Electric-circuit-control. F. J. Armstrong. 1,752,770; Apr. 1.
Locket. L. Baum. 1,752,719; Apr. 1.
Locking device. G. Watson. 1,752,824; Apr. 1.
Locking device and brake alarm, Accelerator safety. J. G. Ellinger. 1,752,886; Apr. 1.

Locking mechanism, Safety. F. K. Fildes. 1,752,634; Apr. 1.
Locomotive boosters, Flexible connection for. M. H. Roberts and F. R. Peters. 1,752,696; Apr. 1.
Loom. W. Nicolet. 1,752,804; Apr. 1.
Loom. J. Thexton, jr., and H. Tomlinson. 1,752,621; Apr. 1.
Looms, Lay-driving mechanism for. W. W. Robertson. 1,752,459; Apr. 1.
Looms, Let-off mechanism for. E. R. Holmes. 1,752,488; Apr. 1.
Looms, Weft-replenishing mechanism for double-shuttle. R. G. Turner. 1,752,405; Apr. 1.
Loud-speaker. C. A. Hoxie. 1,752,909; Apr. 1.
Loud-speaker, Electrostatic. G. Seibt. 1,753,137; Apr. 1.
Lubricant product and producing process. R. R. Rosenbaum. 1,752,309; Apr. 1.
Lubricating apparatus, Pressure. J. S. Lynn. 1,752,530; Apr. 1.
Lubricating device, Force-feed. I. Cowles. 1,752,975; Apr. 1.
Lubricating means for vehicle parts, Magazine. C. T. Myers. 1,752,960; Apr. 1.
Machine for making roofing and the like. A. E. F. Moone. 1,752,751; Apr. 1.
Machine for rupturing the ends projecting from wire heddles. A. G. David and P. Giscion. 1,752,733; Apr. 1.
Machine for use in removing tires from wheels and rims. J. B. Smith. 1,752,759; Apr. 1.
Magazine, Multicolor. R. G. Turner. 1,752,404; Apr. 1.
Magnetic device. R. V. L. Hartley. 1,752,486; Apr. 1.
Magnetic loading for twin conductors. W. Harrison. 1,752,556; Apr. 1.
Magneto contact plug. T. Dufio. 1,752,590; Apr. 1.
Mail-sorting apparatus. T. W. Williamson and R. R. Gentry. 1,753,036; Apr. 1.
Maps, Device for carrying. G. P. Kent. 1,752,910; Apr. 1.
Mat: *See*—
Flexible mat.
Material-feeding apparatus. H. R. Massingham. 1,752,604; Apr. 1.
Mausoleum construction. H. J. Person. 1,752,572; Apr. 1.
Measuring and-filling machine, Plastic-material. W. A. Coyte. 1,752,890; Apr. 1.
Measuring device. A. P. Howard. 1,752,527; Apr. 1.
Measuring device. M. N. Prange. 1,752,964; Apr. 1.
Measuring instrument, Electric. H. Butler. 1,753,043; Apr. 1.
Measuring physical characteristics of flowing streams of fluid, Apparatus for. F. Schönberger. 1,752,855; Apr. 1.
Medicament and preparing same, Solution of. C. L. Lautenschläger, M. Bockmühl, and R. Schwabe. 1,752,305; Apr. 1.
Metal, Composition for and process of cleaning. J. D. Klinger and C. L. Boyle. 1,752,746; Apr. 1.
Metal cutting and grinding machine. J. W. Snarry. 1,753,096; Apr. 1.
Metals, Treating. C. H. Anderson. 1,752,474; Apr. 1.
Mill: *See*—
Cane mill.
Grinding, pulverizing, or disintegrating mill.
Pulverizing or grinding mill.
Mill. A. Steinbrückner. 1,752,860; Apr. 1.
Mixing and kneading machine. F. Aeschbach. 1,752,628; Apr. 1.
Mixing apparatus. W. C. Brumder. 1,752,833; Apr. 1.
Mixing device. W. C. Brumder. 1,752,832; Apr. 1.
Mold. G. E. Nagel. 1,753,061; Apr. 1.
Mold wash. H. L. Braden. 1,752,725; Apr. 1.
Molding, Apparatus for. C. D. Pettis. 1,752,308; Apr. 1.
Molding compound and its production. H. S. Snell. 1,752,580; Apr. 1.
Molding flask. J. F. Hines. 1,752,907; Apr. 1.
Molding machines, Sand-feeding mechanism for. E. O. Beardsley and W. F. Piper. 1,752,549; Apr. 1.
Mop head and wringer. B. L. Friedman and S. Kovac. 1,752,337; Apr. 1.
Moss feeder and cleaner. J. W. Rosson. 1,752,576; Apr. 1.
Motor: *See*—
Hydrocarbon motor.
Pressure motor.
Synchronous motor.
Motor control. J. C. Cumberland. 1,752,892; Apr. 1.
Motor control, Induction-. E. Handschin. 1,752,904; Apr. 1.
Motor-driven blower. E. P. Bliss, jr. 1,752,830; Apr. 1.
Multiple-walled bag. J. E. Cornell. 1,752,370; Apr. 1.
Needle drier. P. W. Flagge. 1,752,903; Apr. 1.
Nozzle for dishwashers, H. F. Voshardt. 1,752,316; Apr. 1.
Nozzle, Spray. F. A. Walker. 1,752,823; Apr. 1.
Objects to hook-type conveyers, Transferring. F. R. Colby and A. L. Larsen. 1,752,783; Apr. 1.
Oil and air mixing device in the form of vacuum pumps. W. E. Shore. 1,752,398; Apr. 1.
Oil and making same, Illuminating. F. W. Hall. 1,752,299; Apr. 1.
Oil-burning apparatus. A. E. Grant. 1,753,146; Apr. 1.
Oil-burning engine. C. L. Cummins. 1,752,786; Apr. 1.
Oil composition, etc. W. W. Evans. 1,752,945–6; Apr. 1.
Oil feeding and burning apparatus. A. E. Grant. 1,753,145; Apr. 1.
Oils, Apparatus for the lye treatment of petroleum. C. K. Parker. 1,752,350; Apr. 1.
Oils, Process of and apparatus for polymerising. S. P. Miller. 1,752,921; Apr. 1.
Oils, Treating vulcanized. A. F. Owen. 1,753,018; Apr. 1.
Oils with finely-divided solid material, Treating. N. E. Loomis. 1,753,171; Apr. 1.
Optical printer. F. H. Owens. 1,752,753; Apr. 1.
Ornament for lighting fixtures or similar articles, Corner. O. Hoffmann. Des. 80,838; Apr. 1.
Outlet box. F. B. Adam. 1,752,322; Apr. 1.
Outlet box, Combination. E. Walter. 1,753,100; Apr. 1.
Oven, Coking retort. J. Becker and J. Van Acker en. 1,752,363; Apr. 1.
Oven heating and circulating system. B. S. Harrison. 1,752,483; Apr. 1.
Oven, Japanning. J. A. Seede. 1,752,857; Apr. 1.
Package. E. C. Pagel. 1,752,996; Apr. 1.
Pad: *See*—
Knee pad.
Pad for fruit containers. J. H. Woodall. 1,752,716; Apr. 1.
Padding with selvage. E. N. Sitton. 1,753,138; Apr. 1.
Paint and varnish remover. O. G. Winzer. 1,752,358; Apr. 1.
Panel-assembling apparatus. W. M. Schwartz, A. J. Harrison, and J. L. Fagan. 1,753,070; Apr. 1.
Panel for lighting fixtures or similar articles. H. R. Holdeman. Des. 80,839; Apr. 1.
Paper and paper making. E. Lionne. 1,752,802; Apr. 1.
Paper bag. A. M. Bates and J. E. Cornell. 1,752,292; Apr. 1.
Paper clip. G. M. Sacerdote. 1,753,004; Apr. 1.
Paper, Crinkling and reenforcing. W. W. Rowe. Re17,638; Apr. 1.
Paper for insulation of electric cables and apparatus therefor, Impregnating. C. J. Beaver. 1,752,972; Apr. 1.
Paper for photographical uses, Manufacture of sensitized velvet. D. Friedlander. 1,752,665; Apr. 1.
Paper-hanging machine. M. J. Di Giacomo. 1,752,898; Apr. 1.
Paper pulp, Apparatus for handling. F. B. Chappell. 1,752,886; Apr. 1.
Parcel receiver. R. F. W. Hess. 1,752,984; Apr. 1.
Paring machine, Fruit-. J. W. Pease. 1,752,997; Apr. 1.
Peanut-picking machine. C. M. Dykes. 1,752,875; Apr. 1.
Peeler. P. F. Wobst. 1,752,768; Apr. 1.
Pen. W. C. Parmley. 1,752,892; Apr. 1.
Pencil tip. F. J. Kristofek. 1,752,563; Apr. 1.
Perforating machine and the like. R. Head. 1,753,148; Apr. 1.
Phenol-carbohydrate resin and making same. J. McIntosh. 1,753,030; Apr. 1.
Phonograph construction. H. Wiener. 1,752,357; Apr. 1.
Photographic images, Production of. H. D. Murray. 1,753,059; Apr. 1.
Photographic printer. J. J. Risdon. 1,752,458; Apr. 1.
Picture-projecting machine. A. S. Howell. 1,752,961; Apr. 1.
Pictures, Optical means for producing color cinematographic. K. Martin and P. Tietze. 1,752,680; Apr. 1.
Pictures, Transmission of. E. F. W. Alexanderson. 1,752,876; Apr. 1.
Pies, Apparatus for manufacturing. T. Corns. 1,752,837; Apr. 1.
Pin plate for molding flasks. C. H. Estes. 1,752,552; Apr. 1.
Pipe: *See*—
Tobacco pipe.
Pipe expansion joint, Steam-. G. B. Ashworth. 1,752,475; Apr. 1.
Pipes, Method of and machine for flanging. C. F. Schultis. 1,752,506; Apr. 1.
Pipestems, Attachment for. C. Scheer. 1,753,095; Apr. 1.
Piston. B. Kottusch. 1,752,672; Apr. 1.
Piston. H. Malloy. 1,752,994; Apr. 1.
Piston. C. N. Mitchell. 1,752,685; Apr. 1.
Piston, Engine. M. H. P. Sologalstoa. 1,752,816; Apr. 1.
Piston ring. J. J. Howard. 1,752,848; Apr. 1.
Piston, Ringless self-expanding. G. Floyd. 1,753,113; Apr. 1.
Plaiter. M. D. Dickman. 1,752,897; Apr. 1.
Planters, Mounting device for seed. P. Scrimger. 1,753,136; Apr. 1.
Plastic article. R. V. Mattison. 1,752,307; Apr. 1.
Plate-registering means. W. H. Bansett. 1,752,659; Apr. 1.
Pliers, Optician's. A. J. Zwilling. 1,753,080; Apr. 1.
Plow, Tractor. G. Hudson. 1,752,849; Apr. 1.
Poke, Cow. C. J. Spencer. 1,753,071; Apr. 1.
Polisher for vacuum cleaners, Floor. J. F. Morgal. 1,752,803; Apr. 1.
Pop-corn machine. J. H. Reichart. 1,752,457; Apr. 1.
Postal section, Tubular. W. Höhne. 1,753,169; Apr. 1.
Potato digger, Cylinder. G. Backer. 1,753,139; Apr. 1.
Powder, Manufacture of smokeless. C. R. Borland. 1,752,881; Apr. 1.
Precipitating system. A. G. McGregor. 1,753,015; Apr. 1.
Press: *See*—
Vulcanizing press.
Pressure gauge, Controlling. S. A. F. Johansson and A. O. Dahlström. 1,753,118; Apr. 1.
Pressure motor, Counter-thrust. C. G. Edwards. 1,752,899; Apr. 1.

Price tag. S. Singer. 1,752,509; Apr. 1.
Printing chase. P. M. Pope. 1,753,173; Apr. 1.
Printing die. P. Gremin. 1,752,298; Apr. 1.
Printing-press bed. G. F. Bryant and W. S. Warnock. 1,752,779; Apr. 1.
Printing-press bed. W. S. Warnock. 1,752,767; Apr. 1.
Protective system. V. Kenkin. 1,752,947; Apr. 1.
Protective system for transmission circuits. F. W. Gay. 1,752,066; Apr. 1.
Pulley, Clothesline. A. Kappel. 1,753,084; Apr. 1.
Pulpous material, Mechanism for working. J. W. Fay. 1,752,480; Apr. 1.
Pulverizing or grinding mill. D. J. Uhle and J. V. Durnin. 1,752,314; Apr. 1.
Pulverizing or grinding mill. D. J. Uhle and J. V. Durnin. 1,752,622–3; Apr. 1.
Pump. R. W. Allerton. 1,752,546; Apr. 1.
Pump. F. G. Brown. 1,752,366; Apr. 1.
Pump for multicylinder internal-combustion engines, Fuel. J. Mahler. 1,752,886; Apr. 1.
Pump, Liquid-measuring. E. E. Eickmeyer. 1,752,523; Apr. 1.
Pumps, Jack frame for well. J. R. Mehan and J. B. Picard. 1,752,647; Apr. 1.
Quinaldine, Making. L. P. Kyrides. 1,752,492; Apr. 1.
Rack: *See*—
Clothes rack.
Crepe-steaming rack.
Display rack.
Shelf rack.
Shoe rack.
Trunk and luggage rack.
Radiator. E. L. Anderson. 1,752,879; Apr. 1.
Radiator. L. Courtot. 1,752,785; Apr. 1.
Radiator cap. F. G. and W. M. Folberth. 1,753,003; Apr. 1.
Radiator hanger, Reversible. F. W. Fuller. 1,752,296; Apr. 1.
Radioantenna. L. F. and O. G. Noirot, and G. C. Rupert. 1,752,925; Apr. 1.
Radio program detector. K. G. Karsten. 1,752,302; Apr. 1.
Radiotube. H. C. Colburn. 1,752,520; Apr. 1.
Rail joint. A. W. McClary. 1,752,566; Apr. 1.
Rail straightener, Railroad-. C. D. Baldwin. 1,752,629; Apr. 1.
Rails, Apparatus for straightening the heads of railway. J. R. Lukaszyk. 1,752,646; Apr. 1.
Railroad system for levee constructing. R. H. McWilliams. 1,752,958; Apr. 1.
Rake. G. H. Maus. 1,752,447; Apr. 1.
Ramp structure. W. F. Goodrich. 1,753,115; Apr. 1.
Rebound device, Hydraulic. E. W. Ackerman and G. C. Nicholson. 1,752,409; Apr. 1.
Receptacle and making same. A. Daniels. 1,752,371; Apr. 1.
Receptacle, Bottle. W. T. Smith. 1,752,815; Apr. 1.
Receptacle for use in manicuring. G. G. Culver. 1,753,044; Apr. 1.
Recording time and period values. W. J. Love, jr. 1,752,564; Apr. 1.
Refining system. A. G. Peterkin, jr. 1,752,455; Apr. 1.
Refractory composition and making refractory articles therefrom. L. J. Trostel. 1,752,807; Apr. 1.
Refrigerating apparatus. E. T. Williams. Re17,635; Apr. 1.
Refrigeration coil. C. M. Brenner. 1,753,042; Apr. 1.
Refuse-handling apparatus. K. Hirschner. 1,752,950; Apr. 1.
Regulator: *See*—
Temperature regulator.
Window regulator.
Regulator handle or the like for an automotive vehicle, Window. W. H. Hollindale. Des. 80,840; Apr. 1.
Relay, Thermal overload. H. L. Van Valkenburg. 1,752,514; Apr. 1.
Resilient wheel. G. Orbin. 1,753,131; Apr. 1.
Resin and making same, Oxidized. A. S. Ramage. 1,752,693; Apr. 1.
Return apparatus. W. Ehrhart. 1,752,979; Apr. 1.
Return bend. F. C. Fants. 1,752,331; Apr. 1.
Rifle, Automatic. A. Bochnak. 1,752,324; Apr. 1.
Ring: *See*—
Piston ring.
Ring. F. H. Hill. Des. 80,836; Apr. 1.
Ring or article of similar nature, Finger. E. J. Gross. Des. 80,833; Apr. 1.
Ring spinning and doubling frame. J. Jolly. 1,753,119; Apr. 1.
Riveting device. H. Junkers. 1,752,799; Apr. 1.
Rod: *See*—
Connecting rod.
Fishing rod.
Welding rod.
Roller: *See*—
Kiln roller.
Roller attachment. G. W. McConnell. 1,752,682; Apr. 1.
Roller screen. W. E. Stevens and C. B. Jay. 1,752,466; Apr. 1.
Roof structure for railway cars. A. E. Small. 1,752,355; Apr. 1.
Roofing construction. W. J. Young. 1,752,827; Apr. 1.
Roofing elements, Method of and machine for edge-coating. F. C. Overbury. 1,752,464; Apr. 1.
Roofings, Apparatus for making asphalt. E. Sakuma. 1,753,027; Apr. 1.
Roundabout. D. J. Labay. 1,752,600; Apr. 1.
Rowing apparatus for gymnastic exercises. J. Falkenburg. 1,752,901; Apr. 1.
Rubber from guayule, etc., Extraction of. D. Spence. 1,753,185; Apr. 1.
Rubber-spreading machines, Solvent-recovery apparatus for. E. A. Abeles. 1,752,875; Apr. 1.
Rug and making the same. G. Belcher. 1,752,287; Apr. 1.
Safety device for elevator cage and shaft doors. F. A. Beedtcher. 1,752,476; Apr. 1.
Safety system. W. Rohkohl. 1,752,852; Apr. 1.
Sampler, Formation. G. A. Poole and S. G. Forney. 1,753,066; Apr. 1.
Saw blade. E. A. Bolinder. 1,752,586; Apr. 1.
Saw, Inserted-tooth. E. C. Orr. 1,752,541; Apr. 1.
Sawing machine. C. I. Hoag. 1,752,487; Apr. 1.
Scale. N. L. Fellows. 80,871; Apr. 1.
Scale. N. Tatham. 1,752,711; Apr. 1.
Scale, Railway-track. M. H. Starr. 1,753,097; Apr. 1.
Scenes, Device for depicting rural. C. S. Dernbach. 1,753,111; Apr. 1.
Scraper. W. K. Robbins. 1,753,022; Apr. 1.
Scraper for harvester main wheels. R. C. Livesay. 1,752,998; Apr. 1.
Screen: *See*—
Roller screen.
Screen and window. O. Karlslyst. 1,752,640; Apr. 1.
Screw, Headless set. M. L. Martus. 1,753,164; Apr. 1.
Scrubbing machine. H. O. Boutwell. 1,752,882; Apr. 1.
Seat: *See*—
Auto seat.
Toilet seat.
Seat mounting for automobiles. H. A. Brunn. 1,752,868; Apr. 1.
Seat or bench, Collapsible. C. A. Duke. 1,752,734; Apr. 1.
Secrecy system. R. V. L. Hartley. 1,752,485; Apr. 1.
Settee, Convertible bed. D. R. N. Christophers. 1,752,417; Apr. 1.
Sewing-machine threader. A. McC. Fluharty. 1,753,114; Apr. 1.
Shade, Glass. G. L. Miller. Des. 80,840–50; Apr. 1.
Shaping-machine-worktable cross-rail guide. W. T. Zimmermann. 1,753,143; Apr. 1.
Sheath currents, Apparatus for reducing. F. J. White. 1,752,318–20; Apr. 1.
Sheet-feeding machine. H. K. King. 1,752,744; Apr. 1.
Shelf rack. W. N. Vance. 1,752,315; Apr. 1.
Shield, Expansion. R. E. Ogden. 1,752,752; Apr. 1.
Shock absorber. H. Fromm. 1,753,047; Apr. 1.
Shock absorber, Electric. A. W. Harrison. 1,752,844; Apr. 1.
Shock-absorbing device for mechanically-propelled vehicles. J. W. Turner, H. Wood, and E. Mann. 1,753,099; Apr. 1.
Shocker. W. L. M. Jones. 1,752,801; Apr. 1.
Shoe. D. A. Cutler. 1,752,787; Apr. 1.
Shoe and hosiery stand, Combination. J. C. Ross. 1,752,699; Apr. 1.
Shoe rack. J. H. Boye. 1,752,288; Apr. 1.
Shoe welt. C. H. Merrow. 1,753,056; Apr. 1.
Shower head, Tubular. C. B. Crane, 2d. 1,752,633; Apr. 1.
Sign and its operation, Electric. G. W. Tarkington. 1,752,760; Apr. 1.
Sign, Corner. M. C. Haerman. Des. 80,834; Apr. 1.
Sign holder for automobile bodies. A. H. Ellis. 1,752,691; Apr. 1.
Signal: *See*—
Automobile or highway signal.
Direction signal.
Traffic signal.
Signal and communication mechanism for sunken submarines. H. C. Stanger. 1,753,139; Apr. 1.
Signal device. B. Hosking. 1,753,117; Apr. 1.
Signaling, Railway. F. C. Lavarack and D. W. Richards. 1,752,493; Apr. 1.
Sill or jamb covering, Adjustable. E. F. McHugh. 1,752,606; Apr. 1.
Sill or jamb covering, Interlocking. E. F. McHugh. 1,752,605; Apr. 1.
Siphon. N. Swindin. 1,752,620; Apr. 1.
Ski pedestal for aeroplanes. S. A. Cheesman. 1,752,416; Apr. 1.
Skins, Apparatus for seasoning. H. B. Layton. 1,752,440; Apr. 1.
Smoke consumer. A. Adams. 1,752,717; Apr. 1.
Smoking and vanity case, Combination. W. Schnell. Des. 80,856; Apr. 1.
Snap construction, Release. A. Summerfeld. 1,752,619; Apr. 1.
Sled, Auto. S. N. Stowell. 1,753,160; Apr. 1.
Slide-way for window panes. D. H. Van Hove. 1,753,038; Apr. 1.
Slip for rotary tables and spiders for handling pipe. R. V. Uhrig. 1,752,822; Apr. 1.
Slot cutter. F. A. Ost. 1,752,690; Apr. 1.
Slug holder and depressible margin bar, Edition-printing-. F. Lamatsch. 1,752,565; Apr. 1.
Socket block for poles. J. H. Meagher. 1,752,683; Apr. 1.
Solenoid winding. P. Trombetta. 1,752,866; Apr. 1.
Sole stitcher. J. B. Birrer. 1,752,722; Apr. 1.
Solids from liquids or liquors by filtration, Apparatus for separating. J. T. Shimmin. 1,752,758; Apr. 1.
Sound or vibration transmitting apparatus. E. Wensley. 1,752,515; Apr. 1.
Sound reproducer. E. Freund. 1,752,981; Apr. 1.
Spear, Trip casing. G. H. Clerkx van Keulen. 1,753,074; Apr. 1.
Spectacle frames from tortoise shell and similar valuable material, Manufacturing. E. Kühne. 1,752,953; Apr. 1.

Spectacles, Antidazzle. E. T. and F. W. Cornwell. 1,752,889; Apr. 1.
Spinnerets, Method and tool for cleaning. O. Ohlson. 1,752,689; Apr. 1.
Spinning frames, Twister tube for. A. Ambye. 1,752,878; Apr. 1.
Spinning machine. J. van den Abeele. 1,752,869; Apr. 1.
Spoon-holding clip. A. J. Eckelman. 1,752,522; Apr. 1.
Spray head. G. A. Mueller. 1,752,922–3; Apr. 1.
Spraying device. G. A. Mueller. 1,752,924; Apr. 1.
Spraying liquids. H. W. Page. 1,753,019; Apr. 1.
Spraying pulverulent material, Apparatus for. R. Lex. 1,752,956; Apr. 1.
Spring rings, Producing. W. F. Herold. 1,752,982; Apr. 1.
Stabilizer for aeroplanes. F. Rumford and H. T. Henry. 1,752,396; Apr. 1.
Stand: *See*—
Shoe and hosiery stand. Switch-throw stand.
Stand for use with gas stoves, Safety. S. M. Kass. 1,752,562; Apr. 1.
Stand or similar article, Aquarium. S. C. Simpson. Des. 80,865; Apr. 1.
Starter, Electric-motor. W. T. Holmes. 1,753,116; Apr. 1.
Static interference in carrier systems, Reduction of. H. A. Affel. 1,752,360; Apr. 1.
Static interference in carrier systems, Reduction of. D. E. Branson. 1,752,326–6; Apr. 1.
Steam scoring machine for ice. E. S. Henry. Re17,630; Apr. 1.
Steel, Changing the properties of silicon. J. C. Karcher. 1,752,490; Apr. 1.
Steel in an open-hearth furnace, Producing. R. Durrer, F. C. Siemens, and A. Sprenger. 1,752,374; Apr. 1.
Steel lay brace. C. J. Lindegren. 1,752,443; Apr. 1.
Steel retainer. F. H. Thoms. 1,753,034; Apr. 1.
Steering gear. L. Van H. Armstrong. 1,753,039; Apr. 1.
Steering mechanism for motor vehicles. C. R. Waseige. 1,752,624; Apr. 1.
Stills, etc., Clean-out elbow for cracking. F. C. Fantz. 1,752,332; Apr. 1.
Stocking. W. D. Buts. 1,752,587; Apr. 1.
Stocking. J. I. Schwadron. Des. 80,857; Apr. 1.
Stoker attachment. R. H. S. Hughes. 1,753,050; Apr. 1.
Stoker, Power-feed. G. A. Kohout. 1,752,801; Apr. 1.
Stop for vehicles, Backing. E. S. Hutton. 1,752,435; Apr. 1.
Stove, Heating. H. L. McKown. 1,752,387; Apr. 1.
Strap for lighting fixtures or similar articles. O. Hoffmann. Des. 80,837; Apr. 1.
Strap-stretching device. C. M. MacChesney and R. H. Norton. 1,752,495; Apr. 1.
Stretching and guiding apparatus, Automatic. A. A. M. Taveira. 1,753,033; Apr. 1.
Stringed instrument. J. E. Hillebrandt. 1,752,906; Apr. 1.
Stringed instruments, Apparatus for learning correct bow work for. J. Braunstein-Loskant. 1,753,053; Apr. 1.
Strip-pulling device. R. F. Russell. 1,753,174; Apr. 1.
Structural element. H. M. Knight. 1,752,671; Apr. 1.
Suction-actuated devices in connection with the suction passages of internal-combustion engines, Apparatus for operating. C. S. Bragg and V. W. Kliesrath. 1,753,165; Apr. 1.
Suction-actuated devices in connection with the suction passages of internal-combustion engines, Method of and apparatus for operating. C. S. Bragg and V. W. Kliesrath. 1,753,166–7; Apr. 1.
Sugar juice, Defaction of. A. W. Bull. 1,752,781; Apr. 1.
Suit, Bathing. C. O. Ast. 1,752,771; Apr. 1.
Support, Auxiliary motor. J. M. Biordan. 1,752,809; Apr. 1.
Support for pictures, cards, etc. M. M. Gillette. 1,752,297; Apr. 1.
Support, Wrist. H. Haaf. 1,753,006; Apr. 1.
Supporting bar. K. H. Whitney. 1,752,472; Apr. 1.
Surgical dressing. C. W. Barth. 1,753,106; Apr. 1.
Switch: *See*—
Electric switch.
Switch-actuating mechanism. G. H. Whittingham. 1,753,076; Apr. 1.
Switch-actuating mechanism. G. H. Whittingham. 1,753,180; Apr. 1.
Switch construction. C. W. Eisenmann. 1,752,900; Apr. 1.
Switch for directional signals. E. L. Yocum and R. T. Wardrop. 1,753,078; Apr. 1.
Switch lock. V. V. Proffen. 1,752,613; Apr. 1.
Switch-operating mechanism, Coin-controlled. R. O. Gilburg. 1,752,592; Apr. 1.
Switch-throw stand. J. O. Gill. 1,752,736; Apr. 1.
Synchronous motor, Starting. A. R. Stevenson, jr. 1,752,932; Apr. 1.
Syringe, Hypodermic. W. F. Jamison. 1,752,384; Apr. 1.
Table: *See*—
Folding table.
Table structure. W. C. Buiten. 1,752,780; Apr. 1.
Tag, Shipping. S. Noguchi. 1,752,539; Apr. 1.
Tag-stringing machine. F. O. Carlson. 1,752,780; Apr. 1.
Take-off and landing device for aeroplanes. W. B. Gerbracht. 1,752,554; Apr. 1.
Tape having braidlike wrinkles or plaits from solidifiable viscous solution, Device for manufacturing a. T. Izumi. 1,752,636; Apr. 1.
Telegraph repeating system. F. S. Kinkead. 1,752,436; Apr. 1.
Telegraph systems, Interference neutraliser for alternating-current. L. A. Kelley. 1,752,303; Apr. 1.
Telegraph systems, Interference neutraliser for alternating-current. L. A. Kelley, N. Monk, and V. P. Thorp. 1,752,346; Apr. 1.
Telegraph systems, Suppression of interference in carrier. R. H. Clapp. 1,752,330; Apr. 1.
Telephone set. C. B. Fowler. 1,752,429; Apr. 1.
Telephone system. J. W. Dehn. 1,752,550; Apr. 1.
Telephone system. F. A. Korn. 1,752,438; Apr. 1.
Telephone system. R. C. Mathes. 1,752,498; Apr. 1.
Telephone system. L. L. Ruggles. 1,752,543; Apr. 1.
Telephone system. V. S. Tharp. 1,752,470; Apr. 1.
Telephone system, Multioffice. M. L. Nelson. Re17,632; Apr. 1.
Telephone system, Multioffice. W. Münchenhagen. 1,752,500; Apr. 1.
Telephonic communication, Method and apparatus of. S. Ruben. 1,752,811; Apr. 1.
Temperature regulator. A. J. Nelson. 1,752,890; Apr. 1.
Therapeutical instrument. M. Fujii. 1,752,338; Apr. 1.
Thermoelectrically-operated device for the protection of rotary dynamo-electric machine. H. B. Poynder. 1,752,609; Apr. 1.
Thermometer, Recording. W. Barstow. 1,752,362; Apr. 1.
Thermostat, Electrical. J. F. Malsbary. 1,752,582; Apr. 1.
Thrashing machines, Feeding device for. F. P. Ryder. 1,752,577; Apr. 1.
Thread carrier. H. F. Paget. 1,752,754; Apr. 1.
Thread cutter. T. F. Naumann. 1,752,611; Apr. 1.
Thread-cutting device. T. M. Lilleberg. 1,752,915; Apr. 1.
Tile, Apparatus for manufacturing hollow. R. A. Shipley. 1,752,702; Apr. 1.
Tile-roof closure. J. Giordano. 1,752,593; Apr. 1.
Timepiece, Electromagnetic-impulse. F. Marti. 1,752,446; Apr. 1.
Tire-casing spreader. C. E. Weaver and E. W. Kelley. 1,753,035; Apr. 1.
Tire for motor-vehicle wheels. E. Hibbert. 1,752,845; Apr. 1.
Tire lock, Automobile. J. Lauro. 1,753,124; Apr. 1.
Tire-testing machine. W. C. Stevens. 1,753,175; Apr. 1.
Tire vulcanizer. J. Q. Adams. 1,752,829; Apr. 1.
Tobacco pipe. S. Gunnlaugsson. 1,752,431; Apr. 1.
Toggle. C. S. Morrison. 1,753,058; Apr. 1.
Toilet seat. C. A. Meath. 1,752,499; Apr. 1.
Tone-producing triangle. C. Kitching. 1,752,529; Apr. 1.
Tool, Cutting. J. E. Ridler. 1,752,653; Apr. 1.
Tool, Fishing. W. S. Jones. 1,752,669; Apr. 1.
Tool, Fishing. F. J. Spang. 1,752,656; Apr. 1.
Tool, Fuse-handling. F. H. Roselle. 1,752,575; Apr. 1.
Tool, Recessing. J. H. Abramson. 1,753,103; Apr. 1.
Tool, Shaping. W. Ruthven. 1,752,507; Apr. 1.
Tooth, Artificial. S. Myerson. 1,752,538; Apr. 1.
Toothbrush. R. E. Rawson. 1,752,393; Apr. 1.
Top, Detachable vehicle. H. Stacks. 1,753,031; Apr. 1.
Top for type cabinets, Adjustable. M. W. Haynes. 1,753,048; Apr. 1.
Topper, Beet. C. A. J. Andersen. 1,752,285; Apr. 1.
Toy. H. O. Drotning. 1,752,978; Apr. 1.
Toy, Electric. A. L. Macklin. 1,753,127; Apr. 1.
Toy trackage. L. G. Handy. 1,753,147; Apr. 1.
Tractor trailer. C. H. Land. 1,753,011; Apr. 1.
Tractors, Winch attachment for. R. B. Otwell. 1,752,962; Apr. 1.
Traffic indicator. H. Rohrdantz. 1,752,756; Apr. 1.
Traffic signal, Vehicle. G. R. Call. 1,752,289; Apr. 1.
Trailer hitch, Four-wheeled-. J. B. Johnson. 1,752,638; Apr. 1.
Transformer. L. F. Blume. 1,752,880; Apr. 1.
Transmission. Z. Alexander. 1,753,104; Apr. 1.
Transmission, Automatic hydraulic. A. A. Johnson. 1,752,385; Apr. 1.
Transmission, Auxiliary. H. Ford. 1,752,980; Apr. 1.
Transmission mechanism, Automatic variable. W. Pitt. 1,752,755; Apr. 1.
Transmission mechanism for vending or like machines. L. H. Larsen and S. C. McKeown. 1,752,642; Apr. 1.
Transmission network. T. E. Shea. 1,752,461; Apr. 1.
Transplanter. T. H. Oppenheim. 1,753,017; Apr. 1.
Tray and stand therefor, Combined spiritual mass card. J. S. Brennan. Des. 80,828; Apr. 1.
Tray, Combination. A. W. Kehler. Des. 80,842; Apr. 1.
Trimmer: *See*—
Edge trimmer.
Trough for rolling mills, Looping. J. R. George. 1,752,841; Apr. 1.
Truck, Car. S. P. Bush. 1,752,728; Apr. 1.
Truck, Railway. D. S. Barrows. 1,753,105; Apr. 1.
Trunk and luggage rack. W. W. Wilson. 1,753,077; Apr. 1.
Tube: *See*—
Radio tube.
Tube expander. O. Zein. 1,752,408; Apr. 1.
Tubes, poles, and the like from reenforced concrete centrifugally, Device for the production of. P. Zehnder. 1,752,626; Apr. 1.

Tubular members, Uniting. F. R. Grady. 1,753,005; Apr. 1.
Tuning forks to generate audio frequency current as a medium for sound, Method of and apparatus for employing. M. Schumm. 1,753,069; Apr. 1.
Typewriting and card-perforating machine, Combined. J. A. B. Smith. Re17,634; Apr. 1.
Typewriting machine. G. G. Going. 1,752,482; Apr. 1.
Typewriting machine. F. A. Hart. 1,752,484; Apr. 1.
Typewriting machine. A. G. F. Kurowski. 1,752,491; Apr. 1.
Typewriting machines, Feed device for the carriage of. M. Schmid. 1,753,134; Apr. 1.
Umbrella. W. S. Timblin. 1,752,820; Apr. 1.
Umbrella. W. S. Timblin. 1,752,821; Apr. 1.
Valve. W. F. Conran. 1,752,836; Apr. 1.
Valve. J. L. Hutchings. 1,752,667; Apr. 1.
Valve, Automatic gas shut-off. L. D. Lovekin. 1,752,677; Apr. 1.
Valve, Balanced. P. Hösel. 1,752,908; Apr. 1.
Valve cage. A. C. Estep. 1,752,790; Apr. 1.
Valve, Drifting. D. T. Williams. 1,752,321; Apr. 1.
Valve, Gate. C. A. Pillatt. 1,752,456; Apr. 1.
Valve, Gate. S. W. Sparks. 1,752,657; Apr. 1.
Valve gear, Locomotive. C. J. Scudder. 1,753,028; Apr. 1.
Valve, Mixing throttle. H. W. Hess. 1,753,009; Apr. 1.
Valve mounting, Feed-. C. A. Campbell. 1,752,631; Apr. 1.
Valve, Reducing. A. L. Anderson. 1,752,478; Apr. 1.
Valve, Sleeve. C. W. Larner. 1,752,439; Apr. 1.
Valve, Variable pressure or relief. F. J. Rode. 1,753,024; Apr. 1.
Variable resistance. J. L. Howie. 1,753,188; Apr. 1.
Vegetative device. M. B. Jackson. 1,752,597; Apr. 1.
Vending and change-making machine. C. W. Nixon. 1,753,090; Apr. 1.
Vending apparatus. C. W. Nixon. 1,753,088; Apr. 1.
Vending machine. L. Greene. 1,752,376; Apr. 1.
Vending machine. F. L. Mills. 1,752,750; Apr. 1.
Vending machine, Bottled-beverage-. H. F. Dotson. 1,752,479; Apr. 1.
Vending machines, Slug eliminator for. A. E. Johnson. 1,752,798; Apr. 1.
Ventilating port. W. A. A. H. Helwig. 1,752,794; Apr. 1.
Ventilation, Armature. P. Bollinger. 1,752,364; Apr. 1.
Ventilator: *See*—
Window ventilator.
Voltage transformer, Variable-. E. J. Zelt. 1,752,878; Apr. 1.
Volumes of granular materials passing through the same, Apparatus for automatically counting the. A. Letreux. 1,752,602; Apr. 1.
Vulcanizing press. T. Midgley. 1,752,569; Apr. 1.
Wall construction and structural unit therefor. M. Jaeger, jr. 1,752,342; Apr. 1.
Wall construction, Brick-. W. C. Heckeroth. 1,752,558; Apr. 1.
Wall structure, Decorative. C. E. Maier. 1,752,679; Apr. 1.
Walls, Apparatus for cleaning. G. J. Forcier. 1,752,664; Apr. 1.
Washbasins, Top plate for. A. C. Dobrick. Des. 80,830; Apr. 1.
Washboard. E. C. Klaiber. 1,752,745; Apr. 1.
Washing machine. A. W. Altorfer. 1,752,547; Apr. 1.
Washing-machine agitator. T. Simmons. 1,752,967; Apr. 1.
Washing-machine-agitator mechanism. S. E. Schroeder. 1,752,757; Apr. 1.
Watch movements, Balance for. B. J. Bates. 1,752,773; Apr. 1.
Water, Automatic apparatus for the rapid production of aerated. C. Derossi. 1,753,081; Apr. 1.
Water boiler. H. Hargreaves. 1,752,905; Apr. 1.
Water-closet attachment. C. G. Burton. 1,752,782; Apr. 1.
Water fountain. R. Kielsmeier. 1,753,122; Apr. 1.
Water heater, Stationary. A. L. Mitchell. 1,752,536; Apr. 1.
Water heating and dispensing means. J. H. Rogers and T. Concha. 1,752,698; Apr. 1.
Water, Process and apparatus for softening. W. H. Green. 1,752,389; Apr. 1.
Wave filter. T. E. Shea. 1,752,579; Apr. 1.
Wax, Immersion. F. W. Sullivan, jr. 1,752,933; Apr. 1.
Waxing and polishing device, Floor. A. F. Steiert and O. W. Linke. 1,752,581; Apr. 1.
Weather stripping. G. E. Jeandheur. 1,752,990; Apr. 1.
Weft-replenishing mechanism for looms. R. G. Turner. 1,752,403; Apr. 1.
Welding, Electric. E. N. Jorgensen. 1,752,598; Apr. 1.
Welding rod, Nonferrous. A. R. Lytle. Re17,631; Apr. 1.
Wheel: *See*—
Automobile wheel. Resilient wheel.
Disk wheel.
Wheel. G. Walther, F. H. Walkley, and J. H. Borghardt. 1,752,317; Apr. 1.
Whistle, Ship's. C. B. Mills. 1,753,155; Apr. 1.
Winding machine. M. B. Grout. 1,753,187; Apr. 1.
Winding mechanism particularly adapted for pattern-setting frames. B. Hall and E. F. Hathaway. 1,752,738; Apr. 1.
Winding of endless bands, Apparatus for the. L. Kolm. 1,753,153; Apr. 1.
Windmill. V. S. Hollingsworth. 1,752,847; Apr. 1.
Window-closing device. F. Schierghofer. 1,752,854; Apr. 1.
Window fixture. M. L. Kall. 1,752,743; Apr. 1.
Window frame, Building. J. G. Jonson. 1,753,152; Apr. 1.
Window regulator. S. W. Nicholson. 1,752,688; Apr. 1.
Window ventilator. H. H. Lee. 1,752,913; Apr. 1.
Windshield cleaner and heater. H. C. Roof. 1,752,615; Apr. 1.
Windshield heater. W. G. Wohlhuter. 1,752,715; Apr. 1.
Wire. Magnesium-covered calcium. W. A. Ruggles. 1,752,813; Apr. 1.
Wire-twisting apparatus. R. B. Brannaka. 1,752,726; Apr. 1.
Wood preservation. H. W. Walker. 1,753,000; Apr. 1.
Wrapping apparatus. R. Jongedyk. 1,752,489; Apr. 1.
Wrapping machine. J. Van Buren. 1,752,762; Apr. 1.
Wrench. A. K. Ersland. 1,752,425; Apr. 1.
Wrench. C. B. Gartrell. 1,752,430; Apr. 1.
Wringers, Safety attachment for. J. Beitler. 1,753,040; Apr. 1.
Writing board. C. C. Hennessy. 1,752,989; Apr. 1.
X-ray-centering device. S. Israel. 1,753,151; Apr. 1.

CLASSIFICATION OF PATENTS

ISSUED APRIL 1, 1930

NOTE—First number—class, second number—subclass, third number—patent number.

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24: 1,753,055
67: 1,752,771
85: 1,752,927
175: 1,753,052
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U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Adams, Paul M., doing business as Ralph and Paul Adams, Bridgeville, Del. Sausage and scrapple. 269,408; Apr. 8; Serial No. 292,086; published Jan. 28, 1930. Class 46.

Allen, J. W., & Co., Chicago, Ill. Creams and fondants, flour mixtures. 269,405; Apr. 8; Serial No. 292,702; published Jan. 21, 1930. Class 46.

Allen, Paul E., Chicago, Ill. Bottle holders for nursing bottles. 269,892; Apr. 8; Serial No. 290,731; published Jan. 21, 1930. Class 44.

Amenta, John V., doing business as Master Dental Company, Chicago, Ill. Dentures. 269,559; Apr. 8; Serial No. 292,350; published Jan. 28, 1930. Class 44.

American Molasses Co. of North Carolina, The, Wilmington, N. C. Molasses. 269,561; Apr. 8. Class 46.

American Optical Company, Southbridge, Mass. Magazines or periodicals. 269,554; Apr. 8; Serial No. 292,478; published Jan. 21, 1930. Class 38.

Apex Motor Fuel Company, doing business as Apex Laboratories, Chicago, Ill. Dry cleaner. 269,502; Apr. 8; Serial No. 228,702; published July 5, 1927. Class 4.

Appleton Wood Products Co., Appleton, Wis. Toy blocks. 269,887; Apr. 8; Serial No. 291,604; published Jan. 21, 1930. Class 22.

Associated Merchandising Corporation, New York, N. Y. Sewing machines. 269,529; Apr. 8; Serial No. 293,463; published Jan. 28, 1930. Class 23.

Austin, Henry R., doing business as Austin Novelty Co., Wollaston, Mass. Hatracks. 269,527; Apr. 8; Serial No. 293,511; published Jan. 28, 1930. Class 32.

Autographic Register Company, Hoboken, N. J. Registers. 269,390; Apr. 8; Serial No. 290,928; published Jan. 28, 1930. Class 37.

Bachrach-Feld Co., The, doing business as Old Colonel Malt Co., Cincinnati, Ohio. Malt syrup. 269,419; Apr. 8; Serial No. 289,493; published Jan. 21, 1930. Class 46.

Bamberger, L., & Co., Newark, N. J. Toy aeroplanes, artificial bait, golf balls, etc. 269,393; Apr. 8; Serial No. 290,297; published Nov. 26, 1929. Class 22.

Barnhart, George E., New Brighton, Pa. Chemical mixtures and color mixtures. 269,488; Apr. 8; Serial No. 292,788; published Jan. 28, 1930. Class 12.

Bates, Sylvan M., doing business as Bates Whip-To-Cream Co., Huntington Park, Calif. Imitation whipped cream. 269,413; Apr. 8; Serial No. 290,538; published Jan. 21, 1930. Class 46.

Bates Whip-To-Cream Co. (See Bates, Sylvan M.)

Bell Chemical Works. (See Wildman, Earl.)

Belmont Products Company, Fort Wayne, Ind. Maltless cordials. 269,458; Apr. 8; Serial No. 293,569; published Feb. 4, 1930. Class 45.

Bishop Products Company, The, Cleveland, Ohio. Boards used in games played with cards. 269,523; Apr. 8; Serial No. 293,404; published Jan. 21, 1930. Class 22.

Boice, Robert A., doing business as The Boice Medicine Co., Washington, D. C. Medicinal preparation. 269,569; Apr. 8. Class 6.

Boon Caswell & Tindel, Tyler, Tex. Fresh vegetables. 269,418; Apr. 8; Serial No. 289,569; published Jan. 28, 1930. Class 46.

Bosch, Robert, Magneto Company, Inc., Long Island City, N. Y. Ignition apparatus for internal-combustion engines. 269,440; Apr. 8; Serial No. 292,574; published Jan. 14, 1930. Class 21.

Brach, E. J., & Sons, Chicago, Ill. Candy. 269,426; Apr. 8; Serial No. 285,704; published July 30, 1929. Class 46.

Bright Star Battery Company, Hoboken, N. J. Electric batteries, electric flash lights, flash-light cases, etc. 269,446; Apr. 8; Serial No. 292,714; published Jan. 14, 1930. Class 21.

Brooklyn Tire Exchange, The. (See Meyerowitz, Aaron.)

Brown's, Cynthia, Indian Compound Co., Denison, Iowa. Medicinal preparation. 269,474; Apr. 8; Serial No. 280,880; published Jan. 21, 1930. Class 6.

Brzoska, Frank L., doing business as Detroit Malt Extract Co., Dayton, Ohio. Malt syrup. 269,507; Apr. 8; Serial No. 276,064; published Jan. 28, 1930. Class 46.

Buchanan, R. M., doing business as Norris-Buchanan Co., Evanston, Ill. Canned fruits and vegetables, olives, jams, etc. 269,475; Apr. 8; Serial No. 280,689; published Jan. 28, 1930. Class 46.

Buckbout Boat Corporation, Poughkeepsie, N. Y. Sheeve blocks. 269,506; Apr. 8; Serial No. 276,768; published Jan. 28, 1930. Class 23.

Burton-Dixie Corporation, Chicago, Ill. Mattresses, pillows, cushions, and box springs. 269,501; Apr. 8; Serial No. 287,652; published Nov. 9, 1926. Class 32.

Bussa Company Inc., The, Minneapolis, Minn. Tallies, place and score cards, and tally holders. 269,388; Apr. 8; Serial No. 291,320; published Jan. 21, 1930. Class 37.

C-All-Scope Corporation, New York, N. Y. Binoculars. 269,459; Apr. 8; Serial No. 292,612; published Jan. 28, 1930. Class 26.

Carew-Leidgen, Inc., Muskegon and Muskegon Heights, Mich. Electrical advertising signs. 269,449; Apr. 8; Serial No. 291,049; published Jan. 14, 1930. Class 21.

Cassoff, L. Francis, doing business as The Central Paint and Varnish Works, Brooklyn, N. Y. Paints. 269,508; Apr. 8; Serial No. 275,555; published Jan. 28, 1930. Class 16.

Central Paint and Varnish Works, The. (See Cassoff, L. Francis.)

Chipman Chemical Engineering Company, Inc., Middlesex, N. J. Chemical preparation. 269,496; Apr. 8; Serial No. 292,065; published Jan. 21, 1930. Class 6.

Claghorn, Clarence R., Baltimore, Md. Conveyors. 269,434; Apr. 8; Serial No. 292,865; published Jan. 28, 1930. Class 23.

Coen Companies Inc., Los Angeles, Calif. Edible oils. 269,400; Apr. 8; Serial No. 292,866; published Jan. 21, 1930. Class 46.

Cohen, Harry S., Hartford, Conn. Handkerchiefs. 269,450; Apr. 8; Serial No. 290,551; published Jan. 28, 1930. Class 42.

Columbia & Okanogan Nursery Company, Wenatchee, Wash. Apple trees. 269,478; Apr. 8; Serial No. 281,344; published Jan. 28, 1930. Class 1.

Columbian Enameling & Stamping Co., Terre Haute, Ind. Enameled ware. 269,510; Apr. 8; Serial No. 274,087; published Jan. 7, 1930. Class 13.

Compania de Productos Marinos, Sociedad Anonima, Ensenada, Lower California, Mexico. Canned fish, shellfish, preserved fish, etc. 269,512; Apr. 8; Serial No. 272,237; published Dec. 10, 1929. Class 46.

Compo Mfg. Co., Chicago, Ill. Both fixed and variable resistances. 269,536; Apr. 8; Serial No. 293,131; published Jan. 14, 1930. Class 21.

Con-Tex Corporation, The, New York, N. Y. Waterproofing compound. 269,515; Apr. 8; Serial No. 284,720; published Jan. 28, 1930. Class 12.

Cooper, William, & Nephews, Incorporated, Chicago, Ill. Shampoo preparation. 269,546; Apr. 8; Serial No. 292,718; published Jan. 28, 1930. Class 6.

Corliss Anderson Tire Corporation, New York, N. Y. Pneumatic-tire casings and tubes. 269,533; Apr. 8; Serial No. 293,312; published Jan. 28, 1930. Class 35.

Crook, Wilson W., doing business as Crook Advertising Agency, Dallas, Tex. Comic advertisements. 269,570; Apr. 8. Class 38.

Crystal Studio. (See Vinson, Harold S.)

Dalphond, Joseph, doing business as Dalphond Products Company, Pelham, N. H. Mustard and mayonnaise dressing. 269,511; Apr. 8; Serial No. 278,742; published Jan. 21, 1930. Class 46.

Davidson, E. Company, The, Indianapolis, Ind. Portable advertising display boards. 269,566; Apr. 8. Class 50.

Decatur Pump Company, Decatur, Ill. Pumps, pumping units. 269,428; Apr. 8; Serial No. 292,620; published Jan. 28, 1930. Class 23.

Delta Electric Company, Marion, Ind. Electric lanterns. 269,435; Apr. 8; Serial No. 292,797; published Jan. 14, 1930. Class 21.

Detroit Malt Extract Co. (See Brzoska, Frank L.)

Dorsett, Rufus M., Chicago, Ill. Permanent-hair-waving machines and hair curlers. 269,573; Apr. 8. Class 44.

Downee Products Company, Sioux City, Iowa. Removable sanitary pads for diapers and the like. 269,517; Apr. 8; Serial No. 284,658; published Jan. 28, 1930. Class 44.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Rubberized fabrics. 269,494; Apr. 8; Serial No. 292,190; published Jan. 28, 1930. Class 50.

Eastman Kodak Company, Rochester, N. Y. Photographic cameras. 269,526; Apr. 8; Serial No. 293,527; published Jan. 28, 1930. Class 26.

Edison, Thomas A., Incorporated, West Orange, N. J. Radio receiving sets. 269,444; Apr. 8; Serial No. 291,868; published Jan. 14, 1930. Class 21.

Egg Saver Package Company, Bordentown, N. J. Cardboard flats or pads for use in egg cases. 269,571; Apr. 8. Class 2.

Emerol Manufacturing Co., New York, N. Y. Lubricating and penetrating oil. 269,513; Apr. 8; Serial No. 270,941; published Oct. 30, 1928. Class 15.

Essex Rubber Company Inc., Trenton, N. J. Rubber and composition slabs. 269,498; Apr. 8; Serial No. 291,084; published Jan. 28, 1930. Class 1.

Evans Flexible Reamer Corporation, Chicago, Ill. Reamers, reamer pilots, reamer guides, etc. 269,443; Apr. 8; Serial No. 291,068; published Jan. 28, 1930. Class 23.

Farrell-Cheek Steel Foundry Co., The, Sandusky, Ohio. Steel castings. 269,463; Apr. 8; Serial No. 291,860; published Jan. 21, 1930. Class 14.

Federal Rubber Company, The, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass. Compounded unvulcanized rubber, uncured sheet rubber. 269,499; Apr. 8; Serial No. 288,908; published Jan. 28, 1930. Class 1.

Federal Rubber Company, The, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass. Rubber. 269,541-2; Apr. 8; Serial Nos. 288,906-7; published Jan. 28, 1930. Class 1.

Filene's, Wm., Sons Company, Boston, Mass. Zylophones. 269,451; Apr. 8; Serial No. 289,757; published Jan. 28, 1930. Class 36.

Firestone Tire & Rubber Company, The, Akron, Ohio. Gasoline and lubricating oil and grease. 269,445; Apr. 8; Serial No. 291,721; published Jan. 28, 1930. Class 15.

Fischer, Carl, Inc., New York, N. Y. Orchestral instruments. 269,448; Apr. 8; Serial No. 291,158; published Jan. 14, 1930. Class 36.
Flintkote Company, The, Boston, Mass. Asphalt emulsion. 269,495; Apr. 8; Serial No. 292,099; published Jan. 28, 1930. Class 12.
Florian, Inc., Detroit, Mich. Face cream. 269,505; Apr. 8; Serial No. 276,937; published Jan. 21, 1930. Class 6.
Frank, P. M., Disinfecting Co., The, New York, N. Y. Drainpipe solvent and pipe cleaner. 269,564; Apr. 8. Class 6.
Frederick Iron & Steel Company, The, Frederick, Md. Automatic stokers. 269,565; Apr. 8. Class 34.
Freeport Sales Co. (See Meyer, Charles E., & Co.)
Friedman Silver Co., Inc., Brooklyn, N. Y. Table hollow ware of base metal. 269,436; Apr. 8; Serial No. 292,724; published Jan. 14, 1930. Class 28.
Froeblich, Robert M., doing business as Right-O Products Company, New York, N. Y. Soaps. 269,544; Apr. 8; Serial No. 292,930; published Jan. 28, 1930. Class 4.
Gamble Stores, Incorporated, Minneapolis, Minn. Radio receiving sets. 269,441; Apr. 8; Serial No. 292,495; published Jan. 14, 1930. Class 21.
Gamble Stores, Incorporated, Minneapolis, Minn. Paints and varnishes. 269,553; Apr. 8; Serial No. 292,494; published Jan. 28, 1930. Class 30.
Gebrüder Schaft, Berlin, Germany. Talking machines and parts thereof. 269,456; Apr. 8; Serial No. 269,694; published Jan. 14, 1930. Class 36.
Good Humor Corporation of America, Cleveland, Ohio. Ice cream and ice-cream suckers. 269,425; Apr. 8; Serial No. 286,986; published Jan. 28, 1930. Class 46.
Good Story Magazine Company, Inc., New York, N. Y. Magazine. 269,389; Apr. 8; Serial No. 291,030; published Jan. 28, 1930. Class 38.
Greenberg, Charles, New York, N. Y. Boys' dress shirts and blouses. 269,471; Apr. 8; Serial No. 282,551; published Aug. 13, 1929. Class 39.
Greenberg, Isidore, Brooklyn, N. Y. Mouth astringent, antiseptic gargle, and deodorant. 269,490; Apr. 8; Serial No. 292,664; published Jan. 21, 1930. Class 6.
Greenebaum, J., Tanning Company, Milwaukee, Wis. Leather. 269,562; Apr. 8. Class 1.
Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 269,469; Apr. 8; Serial No. 282,707; published Jan. 14, 1930. Class 28.
Hall & Connolly, Inc., New York, N. Y. Electric-lighting units. 269,457; Apr. 8; Serial No. 287,394; published Jan. 28, 1930. Class 26.
Hawaiian Canneries Company, Ltd., Kapaa, Kauai, Hawaii. Canned pineapple and pineapple juice. 269,417; Apr. 8; Serial No. 290,252; published Jan. 21, 1930. Class 46.
Hawaiian Canneries Company, Ltd., Kapaa, Kauai, Hawaii. Canned pineapple and pineapple juice. 269,420; Apr. 8; Serial No. 288,804; published Jan. 21, 1930. Class 46.
Hawaiian Canneries Company, Ltd., Kapaa, Kauai, Hawaii. Canned pineapple and pineapple juice. 269,421; Apr. 8; Serial No. 288,802; published Jan. 21, 1930. Class 46.
Hawaiian Canneries Company, Ltd., Kapaa, Kauai, Hawaii. Canned pineapple and pineapple juice. 269,422; Apr. 8; Serial No. 288,800; published Jan. 21, 1930. Class 46.
Haynes Stellite Company, The, Kokomo, Ind. Metal alloys. 269,549; Apr. 8; Serial No. 292,602; published Jan. 28, 1930. Class 14.
Haynes Stellite Company, The, Kokomo, Ind. Metal alloys. 269,557; Apr. 8; Serial No. 292,450; published Jan. 28, 1930. Class 14.
Henderson & Skipworth, San Francisco, Calif. Compound for treatment of cold sores, ringworm, itch, etc. 269,491; Apr. 8; Serial No. 292,567; published Jan. 21, 1930. Class 6.
Higrade Bottling Company, doing business as Higrade Products Co., Braddock, Pa. Ginger ale. 269,437; Apr. 8; Serial No. 292,667; published Jan. 28, 1930. Class 45.
Hilton Company, Inc., The, Newark, N. J. Suits, topcoats, vests, etc. 269,487; Apr. 8; Serial No. 292,805; published Jan. 21, 1930. Class 39.
Hudson, J. L., Company, The, Detroit, Mich. Hosiery. 269,480; Apr. 8; Serial No. 279,651; published Apr. 16, 1929. Class 39.
I'm Alone Products Company, New York, N. Y. Washing fluid. 269,459; Apr. 8; Serial No. 292,195; published Jan. 28, 1930. Class 4.
Independent Thread Mills, Incorporated, Chicago, Ill. Cotton and rayon threads. 269,518; Apr. 8; Serial No. 284,342; published Aug. 13, 1929. Class 42.
Indiana Limestone Company, Bedford, Ind. Architectural drawings, tracings, and prints thereof. 269,558; Apr. 8; Serial No. 292,360; published Jan. 28, 1930. Class 38.
Inland Fire Brick Company, The, Cleveland, Ohio. Refractory cement. 269,497; Apr. 8; Serial No. 291,874; published Jan. 28, 1930. Class 12.
International Paper Company, New York, N. Y. Mulch paper. 269,481; Apr. 8; Serial No. 292,994; published Jan. 21, 1930. Class 37.
Isenberg, S., Inc., New York, N. Y. Canned fish. 269,539; Apr. 8; Serial No. 293,532; published Jan. 28, 1930. Class 46.
Janszen Company, The, Cincinnati, Ohio. Coffee, canned fruits, canned vegetables, etc. 269,500; Apr. 8; Serial No. 265,844; published Oct. 16, 1928. Class 46.
Jensen, M. N., Orange Cove, Calif. Fresh grapes and citrus fruits. 269,412; Apr. 8; Serial No. 290,467; published Jan. 21, 1930. Class 46.
Josey-Miller Company, Beaumont, Tex. Stock feed. 269,576; Apr. 8. Class 46.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shirts. 269,482; Apr. 8; Serial No. 292,881; published Jan. 21, 1930. Class 39.
Kemp Sisters, New York, N. Y. Chocolate candies. 269,416; Apr. 8; Serial No. 290,314; published Jan. 28, 1930. Class 46.
Killglare Corporation, Washington, D. C. Glare shields. 268,567; Apr. 8. Class 34.
Kurlash Company Inc., The, Rochester, N. Y. Tweezers. 269,468; Apr. 8; Serial No. 283,505; published Jan. 21, 1930. Class 44.
Lanman & Kemp, Inc., New York, N. Y. Salve or ointment of witch-hazel. 269,492; Apr. 8; Serial No. 292,540; published Jan. 21, 1930. Class 6.
Lanman & Kemp, Inc., New York, N. Y. Liniment. 269,493; Apr. 8; Serial No. 292,537; published Jan. 21, 1930. Class 6.
Lanman & Kemp, Inc., New York, N. Y. Double extract of witch-hazel. 269,520; Apr. 8; Serial No. 292,588; published Jan. 21, 1930. Class 6.
Lelong, Lucien, Inc., Chicago, Ill. Face powder and rouge. 269,464; Apr. 8; Serial No. 291,676; published Jan. 21, 1930. Class 6.
Logan Co., Louisville, Ky. Lock-crimp mesh grilles. 269,563; Apr. 8. Class 13.
Lowenberg Bakery, Ottumwa, Iowa. Bakery products. 269,543; Apr. 8; Serial No. 286,184; published Oct. 29, 1929. Class 46.
Mangels-Herold Company, Inc., Baltimore, Md. Compound of corn syrup and West India molasses. 269,402; Apr. 8; Serial No. 292,816; published Jan. 21, 1930. Class 46.
Mansfield, G. H., & Co. Inc., Canton, Mass. Fishing rods. 269,461; Apr. 8; Serial No. 291,991; published Jan. 21, 1930. Class 22.
Maryland Baking Company, The, doing business as Midwest Cone Co., Inc., Baltimore, Md. Ice-cream cones. 269,476; Apr. 8; Serial No. 280,081; published Jan. 28, 1930. Class 46.
Maryland Baking Company, The, doing business as National Cone Company, Inc., Baltimore, Md. Ice-cream cones. 269,477; Apr. 8; Serial No. 280,079; published Jan. 28, 1930. Class 46.
Maryland Baking Company, The, doing business as Midwest Cone Co., Inc., Baltimore, Md. Ice-cream cones. 269,478; Apr. 8; Serial No. 280,078; published Jan. 28, 1930. Class 46.
Master Dental Company. (See Amenta, John V.)
Masury-Young Company, Charlestown, Mass. Floor dressing. 269,556; Apr. 8; Serial No. 292,454; published Jan. 21, 1930. Class 16.
Meath, George M., Kansas City, Mo. Nuts and confections. 269,424; Apr. 8; Serial No. 287,762; published Jan. 28, 1930. Class 46.
Metropolitan Mfg. & Electric Co., Chicago, Ill. Electric toy irons and toy cooking ranges. 269,524; Apr. 8; Serial No. 293,227; published Jan. 21, 1930. Class 22.
Meyer, Charles E., & Co., doing business as Freeport Sales Co., Freeport, Ill. Tomato catsup and canned corn, peas, beans, and tomatoes. 269,516; Apr. 8; Serial No. 284,960; published Aug. 20, 1929. Class 46.
Meyer, Jesse, Jersey City, N. J. Women's hats. 269,415; Apr. 8; Serial No. 290,473; published Jan. 21, 1930. Class 39.
Meyerowitz, Aaron, doing business as The Brooklyn Tire Exchange, Brooklyn, N. Y. Inner tubes for tires. 269,534; Apr. 8; Serial No. 293,228; published Jan. 28, 1930. Class 35.
Midwest Cone Co., Inc. (See Maryland Baking Company, The.)
Miller Manufacturing Company, Elkhart, Ind. Apparatus for removing wall paper. 269,433; Apr. 8; Serial No. 292,886; published Jan. 28, 1930. Class 23.
Moser, Charles, Company, The, Cincinnati, Ohio. Paint. 269,467; Apr. 8; Serial No. 283,579; published June 18, 1929. Class 16.
National Cone Company. (See Maryland Baking Company, The.)
National Federation of Business and Professional Women's Clubs, Inc., New York, N. Y. Periodical. 269,460; Apr. 8; Serial No. 292,000; published Jan. 28, 1930. Class 38.
National Produce. (See Robinson, J. L.)
National Steel Company, Chicago, Ill. Iron, steel, and alloy steel, rolled and drawn bars, rods, etc. 269,555; Apr. 8; Serial No. 292,456; published Jan. 21, 1930. Class 14.
National Tank Seal Company, Tulsa, Okla. Roof coating, cement paint, etc. 269,394; Apr. 8; Serial No. 289,286; published Jan. 28, 1930. Class 16.
Nemeth, Albert, Brooklyn, N. Y. Liquid fertilisers. 269,551; Apr. 8; Serial No. 292,544; published Jan. 28, 1930. Class 10.
Norris-Buchanan Co. (See Buchanan, R. M.)
Northland Canning Company, Cokato, Minn. Canned corn. 269,401; Apr. 8; Serial No. 292,822; published Jan. 28, 1930. Class 46.

Old Colonel Malt Co. (See Bachrach-Feld Co., The.)
Old Servitor Distributing Co., The. (See Pichel, Ralph.)
Operadio Manufacturing Company, St. Charles, Ill. Radio speakers. 269,535; Apr. 8; Serial No. 293,150; published Jan. 14, 1930. Class 21.
O'Reilly, Thomas F., Cincinnati, Ohio. Medicine for tuberculosis, blood disorders, etc. 269,548; Apr. 8; Serial No. 292,682; published Jan. 28, 1930. Class 6.
Para Rubber Co., Newark, N. J. Drapes, draperies, table covers, etc. 269,470; Apr. 8; Serial No. 282,566; published Jan. 28, 1930. Class 50.
Paterson Parchment Paper Co., The, Passaic, N. J. Parchment wrapping paper. 269,397; Apr. 8; Serial No. 287,841; published Jan. 21, 1930. Class 37.
Pfaffman Egg Noodle Company, The, Cleveland, Ohio. Alimentary-paste products. 269,404; Apr. 8; Serial No. 292,748; published Jan. 21, 1930. Class 46.
Peats, Alfred, Company, Chicago, Ill. Varnish. 269,479; Apr. 8; Serial No. 279,877; published June 4, 1929. Class 16.
Pennzoil Company, The, Los Angeles, Calif. Lubricating oils and greases. 269,509; Apr. 8; Serial No. 275,238; published Feb. 26, 1929. Class 15.
Peoples Bottling Company Inc., Akron, Ohio. Beverages and sirups, extracts, etc., for making the same. 269,531; Apr. 8; Serial No. 293,378; published Jan. 28, 1930. Class 45.
Pep Boys—Manny, Moe & Jack, doing business as Varsity Products Co., The, Philadelphia, Pa. Auto enamel, tire paints, touch-up enamel, etc. 269,398; Apr. 8; Serial No. 286,715; published Jan. 28, 1930. Class 16.
Perth Amboy Evening News Co., Perth Amboy, N. J. Daily newspaper. 269,465; Apr. 8; Serial No. 293,066; published Jan. 21, 1930. Class 38.
Pichel, Ralph, doing business as The Old Servitor Distributing Co., Hartsdale, N. Y. Flavoring extract. 269,429; Apr. 8; Serial No. 292,460; published Jan. 28, 1930. Class 46.
Pichel, Ralph, doing business as The Old Servitor Distributing Co., Hartsdale, N. Y. Flavoring extract. 269,430; Apr. 8; Serial No. 292,418; published Jan. 28, 1930. Class 46.
Pilot Radio & Tube Corporation, Brooklyn, N. Y. Radio receiving sets and kits. 269,537; Apr. 8; Serial No. 293,067; published Jan. 14, 1930. Class 21.
Pimpao, L., & Co., Elizabeth, N. J. Coffee. 269,414; Apr. 8; Serial No. 290,521; published Jan. 28, 1930. Class 46.
Portales Canning Co., Portales, N. Mex. Canned tomatoes. 269,560; Apr. 8. Class 46.
Poston, Emmett V., Springfield, Ill. Brick. 269,466; Apr. 8; Serial No. 283,696; published Jan. 28, 1930. Class 12.
Poston, Emmett V., Springfield, Ill. Brick. 269,519; Apr. 8; Serial No. 283,893; published Jan. 28, 1930. Class 12.
Reid, Murdoch & Co., Chicago, Ill. Candy. 269,427; Apr. 8; Serial No. 285,172; published Jan. 28, 1930. Class 46.
Rex-Lin Corporation, The, Chicago, Ill. Polish and cleaner. 269,462; Apr. 8; Serial No. 291,891; published Jan. 14, 1930. Class 16.
Richmond, Harold E., Mount Carmel, Conn. Candies. 269,521; Apr. 8; Serial No. 293,109; published Jan. 28, 1930. Class 46.
Riggs Optical Company, Consolidated, Chicago, Ill. Spectacle frames. 269,530; Apr. 8; Serial No. 293,451; published Jan. 28, 1930. Class 26.
Right-O Products Company. (See Froeblich, Robert M.)
Riona Products Co. Inc., McAllen, Tex. Canned fruits, canned vegetables. 269,538; Apr. 8; Serial No. 293,792; published Jan. 28, 1930. Class 46.
Roark, Ernest O., Kansas City, Mo. Table game. 269,525; Apr. 8; Serial No. 293,072; published Jan. 28, 1930. Class 22.
Robbins & Myers, Inc., Springfield, Ohio. Metal castings. 269,545; Apr. 8; Serial No. 292,827; published Jan. 14, 1930. Class 14.
Robinson, J. L., doing business as National Produce, Kansas City, Mo. Potatoes. 269,407; Apr. 8; Serial No. 292,289; published Jan. 28, 1930. Class 46.
Rodgers, Joseph, & Sons Limited, Sheffield, England. Razors, safety-razor blades, knives, and scissors. 269,532; Apr. 8; Serial No. 293,349; published Jan. 28, 1930. Class 23.
Rosenfeld, Hyman, New York, N. Y. Ozone-generating machines. 269,447; Apr. 8; Serial No. 291,639; published Jan. 14, 1930. Class 21.
Ross, Sydney, Co., The, Newark, N. J. Dentifrices, talcums, saccharin, etc. 269,454; Apr. 8; Serial No. 293,882; published Jan. 21, 1930. Class 6.
Ross, Sydney, Co., The, Newark, N. J. Dentifrices, talcum powders, quinine, etc. 269,455; Apr. 8; Serial No. 293,881; published Jan. 21, 1930. Class 6.
Rusconi, Louis, Fresno, Calif. Grapes. 269,572; Apr. 8; Class 46.
Sales Equipment Company, Detroit, Mich. Loose-leaf blank books. 269,514; Apr. 8; Serial No. 270,758; published Mar. 12, 1929. Class 37.
Schmid, Julius, Inc., New York, N. Y. Rubber combs. 269,575; Apr. 8. Class 40.
Schreiber, Paul, and Son, New York, N. Y. Beverages. 269,432; Apr. 8; Serial No. 292,908; published Jan. 28, 1930. Class 45.
Sgobel & Day, Inc., New York, N. Y. Fresh deciduous fruits, citrus fruits, cantaloupes, etc. 269,431; Apr. 8; Serial No. 292,291; published Jan. 28, 1930. Class 46.
Shields Croup Liniment Co., Minier, Ill. Liniment. 269,458; Apr. 8; Serial No. 292,231; published Jan. 28, 1930. Class 6.
Simmons, George W., Corporation, assignor to George W. Simmons Corporation, New York, N. Y. Apple butter, bacon, canned berries, etc. 269,472; Apr. 8; Serial No. 282,145; published Jan. 28, 1930. Class 46.
Slunecko, Louis, jr., doing business as Slunecko Food Products, Chicago, Ill. Malt syrup. 269,406; Apr. 8; Serial No. 292,686; published Jan. 21, 1930. Class 46.
Snelbaker, Wilson F., doing business as The Snelbaker Manufacturing Co., Mechanicsburg, Pa. Shirts and overalls. 269,489; Apr. 8; Serial No. 292,753; published Jan. 21, 1930. Class 39.
Sockwell, H. W., & Sons, Maurice River, N. J. Canned raw oysters. 269,409; Apr. 8; Serial No. 291,362; published Jan. 28, 1930. Class 46.
South Bend Smelting & Refining Co., South Bend, Ind. Copper and brass ingots. 269,550; Apr. 8; Serial No. 292,555; published Jan. 28, 1930. Class 14.
Spyco Smelting and Refining Co., Minneapolis, Minn. Casting gold for dental use. 269,522; Apr. 8; Serial No. 293,586; published Jan. 21, 1930. Class 44.
Standard Fuel Engineering Company, Detroit, Mich. Heat-treating furnaces. 269,566; Apr. 8. Class 34.
Strathmore Paper Company, Mittineague, Mass. Writing and printing paper, papeteries, etc. 269,391; Apr. 8; Serial No. 290,913; published Jan. 28, 1930. Class 37.
Three Sisters, Inc., New York, N. Y. Cloaks, suits, dresses, shoes, etc. 269,410; Apr. 8; Serial No. 290,723; published Jan. 21, 1930. Class 39.
Three Sisters, Inc., New York, N. Y. Cloaks, suits, dresses, shoes, etc. 269,411; Apr. 8; Serial No. 290,674; published Jan. 21, 1930. Class 39.
Twin City Milk Producers Association, St. Paul, Minn. Spray powder milk. 269,540; Apr. 8; Serial No. 293,357; published Jan. 28, 1930. Class 46.
Tyler, Earl A., doing business as Tyler Products Co., Pawtucket, R. I. Table syrup. 269,428; Apr. 8; Serial No. 292,560; published Jan. 28, 1930. Class 46.
Ullman Manufacturing Company, The, Long Island City, N. Y. Kindergarten paint sets, game beads, puzzle boards, etc. 269,452; Apr. 8; Serial No. 293,015; published Jan. 28, 1930. Class 22.
Ulmer, George G., doing business as Ulmer Laboratories, Minneapolis, Minn. Medicinal preparation. 269,483–6; Apr. 8; Serial Nos. 292,837–40; published Jan. 21, 1930. Class 6.
United Products Company, St. Louis, Mo. Therapeutic lamps. 269,396; Apr. 8; Serial No. 288,149; published Jan. 28, 1930. Class 44.
Universal Permanent Wave Machine Co., Chicago, Ill. Apparatus for permanently waving hair and for accessories for use with such apparatus. 269,574; Apr. 8. Class 44.
Universal Pictures Corporation, New York, N. Y. Motion-picture photoplays. 269,528; Apr. 8; Serial No. 293,495; published Jan. 28, 1930. Class 26.
Valentine & Company, New York, N. Y. Lacquer undercoats and enamels, nitrate dope or clear lacquer, and solvent or lacquer thinner. 269,547; Apr. 8; Serial No. 292,691; published Jan. 28, 1930. Class 16.
Varsity Products Co. (See Pep Boys—Manny, Moe & Jack, The.)
Vincennes Packing Corporation, Vincennes, Ind. Canned fruits and vegetables, canned fish, etc. 269,403; Apr. 8; Serial No. 292,766; published Jan. 28, 1930. Class 46.
Vinson, Harold S., doing business as Crystal Studio, Ottumwa, Iowa. Packaged confectionery. 269,399; Apr. 8; Serial No. 292,915; published Jan. 28, 1930. Class 46.
Vogel and Halke, Hamburg, Germany. Scales. 269,442; Apr. 8; Serial No. 292,878; published Jan. 21, 1930. Class 26.
Western Chemical Co., Kansas City, Mo. Solvent for cleaning bath fixtures and all enamel surfaces. 269,552; Apr. 8; Serial No. 292,518; published Jan. 28, 1930. Class 4.
Wetherby-Kayser Shoe Co., Los Angeles, Calif. Shoes, slippers, mules, and spats, and hose. 269,503; Apr. 8; Serial No. 228,730; published June 15, 1926. Class 39.
Wildman, Earl, doing business as Bell Chemical Works, Bellevue, Ky. Soda mint and pepsin, potassium chlorate, saccharine soluble, etc. 269,504; Apr. 8; Serial No. 201,870; published Nov. 11, 1924. Class 6.
Wilson, Odell, Auburn, Calif. Paints and paint pigments. 269,395; Apr. 8; Serial No. 288,736; published Jan. 28, 1930. Class 16.
Wood, Alexander, & Son, Peterhead, Scotland. Herrings preserved in brine. 269,423; Apr. 8; Serial No. 287,516; published Jan. 28, 1930. Class 46.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Anthony Wholesale Grocery Company, The, Anthony Kans. Farm King. For Cut Green Beans. 37,312; Apr. 8.

Bernheim, Dr. M. G., doing business as Orine Manufacturing Co., Chicago, Ill. Orine for the Mouth. For Liquid Mouth Preparation. 37,313; Apr. 8.

Burton Brothers & Co. Inc., New York, N. Y. Burton's Improved Standard Weight. For Irish Poplin. 37,314; Apr. 8.

Burton Brothers & Co. Inc., New York, N. Y. Burton's Finer Lighter Weight. For Irish Poplin. 37,315; Apr. 8.

Doane, William, St. Louis, Mo. Do 645—Butter. For Butter. 37,316; Apr. 8.

Doane, William, St. Louis, Mo. Do 644—Butter. For Butter. 37,317; Apr. 8.

Doane, William, St. Louis, Mo. Do 640—Butter. For Butter. 37,318; Apr. 8.

Drug Products Co. Inc., The, Long Island City, N. Y. Ointment No. 29 Nesrin. For Medicinal Preparation. 37,319; Apr. 8.

Green Bros. Co., Springfield, Mass. Air Mail. For Candy. 37,320; Apr. 8.

Kampfmueller, William E., Cincinnati, Ohio. Kampfs Herbal Tonic. For a Herbal Tonic. 37,321; Apr. 8.

Laboratory Products Company, The, Cleveland, Ohio. Protein S. M. A. For Food Product For Infants. 37,322; Apr. 8.

Medal of Honor Cigar Co., Inc., New York, N. Y. Medal of Honor. For Cigars. 37,323; Apr. 8.

Nassour Bros., Los Angeles, Calif. Lemo-Rins. For Shampoo Treatment. 37,324; Apr. 8.

Orine Manufacturing Co. (See Bernheim, Dr. M. G.)

Peck's Products Co., St. Louis, Mo. Pexide Powdered Soap. For Powdered Soaps. 37,325; Apr. 8.

R & G Soap Co., The, St. Louis, Mo. Radio. For Soap. 37,326; Apr. 8.

Salt Lake County Celery Growers' Association, Salt Lake City, Utah. Utah Sweetheart Celery. For Celery. 37,327; Apr. 8.

Sampson & Burnham Company, Lynn, Mass. Vosine. For a Mouth Wash and Gargle. 37,328; Apr. 8.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Black, Starr & Frost-Gorham, Inc., New York, N. Y. Jade, Old as the Hills and Green as the Hills, was the Lucky Stone of the Ancients . . . For Jewelry and Silverware. 12,469; Apr. 8.

Fortune, Russell, Incorporated, Indianapolis, Ind. Fancy Veneers. For Veneers. 12,470; Apr. 8.

Fortune, Russell, Incorporated, Indianapolis, Ind. Royal Hawaiian Koa. For Veneers. 12,471; Apr. 8.

French Maid Cocolat Company, Inc., New York, N. Y. French Maid, Vacuum Packed Coffee. For Coffee. 12,472; Apr. 8.

Heinz, H. J., Company, Pittsburgh, Pa. So Good in Themselves . . . So Attractive When Served This New Way. For Baked Beans. 12,473; Apr. 8.

Truly Warner Co. Inc., New York, N. Y. Style Twins. For Hats. 12,474; Apr. 8.

Wood, J. R., & Sons, New York, N. Y. Omega. For Watches. 12,475; Apr. 8.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb, 20. 1905, Sec. 6, as amended Mar. 2, 1907]

Abendpost Company, The, Chicago, Ill. Newspaper. 295,721–2; Apr. 8. Class 38.

Alterson, Theodore, doing business as Alterson Laboratory, New York, N. Y. Medicinal preparation. 293,171; Apr. 8. Class 6.

American Asphalt Tile Corporation, New York, N. Y. Asphalt flooring and roofing materials. 294,568; Apr. 8. Class 12.

American Masters Press. (See Sar, H. Stewart.)

American Nut Company, Indianapolis, Ind. Edible nuts. 294,050; Apr. 8. Class 46.

American Trade Mark Corporation, New York, N. Y. Transfer patterns. 276,756–7; Apr. 8. Class 40.

Apothecaries Hall Company, Waterbury, Conn. Laundry blue soda. 295,921; Apr. 8. Class 6.

Artistic Novelty Co. Inc., New York, N. Y. Ornamental appendages and trimmings. 293,206; Apr. 8. Class 40.

Associated Press, The, New York, N. Y. Publications of strips and panels consisting of comic features. 295,913–8; Apr. 8. Class 38.

Atkin, Clara B., Duluth, Minn. Preparation for use in growing hair. 295,973; Apr. 8. Class 6.

Bacmo-Postman Co. Inc., New York, N. Y. Glove leather. 296,252; Apr. 8. Class 1.

Baker-Moise Company, Dallas, Tex. Hosiery. 295,415; Apr. 8. Class 39.

Baldauf Drug Company, Milwaukee, Wis. Compound to be used in the treatment of chapped hands, face, and lips; talcum powder, etc. 295,723; Apr. 8. Class 6.

Baldwin Tool Works, Parkersburg, W. Va. Shovels, spades, ditching forks, etc. 295,826–7; Apr. 8. Class 23.

Barry, Bert B., and Associates, Chicago, Ill. Dolls. 295,828; Apr. 8. Class 22.

Bartholomew, Robert, doing business as The Bartholomew Manufacturing Company, Scotch Plains, N. J. Metal nursing-bottle warmers. 291,902; Apr. 8. Class 13.

Beacon Fisheries Company, Boston, Mass. Fresh fish and fillets. 287,520; Apr. 8. Class 46.

Benjamin, Hill & Co., New York, N. Y. Periodicals. 296,045; Apr. 8. Class 38.

Berliner Cosmetisches Laboratorium Berzinski & Richter, Berlin, Germany. Skin balm, perfumes, and complexion lotions, creams, and powders. 268,266; Apr. 8. Class 6.

Beverly Hall Corporation, Beverly Hall, Quakertown, Pa. Periodicals. 295,600; Apr. 8. Class 38.

Bird Machine Company, South Walpole, Mass. Pulp and paper making machinery. 295,291; Apr. 8. Class 23.

Bluebird Diamond Syndicate, Chicago, Ill. Diamond rings. 295,724; Apr. 8. Class 28.

Blue Grass Pinless Clothesline Machine. (See Peavyhouse, William W.)

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics. 296,680–5; Apr. 8. Class 42.

Boe Manufacturing Company, Minneapolis, Minn. Oil-dispensing devices. 295,249–50; Apr. 8. Class 23.

Brown, Chester, Asheville, N. C. Carbonated beverage. 280,823; Apr. 8. Class 45.

Brown & Haley, Tacoma, Wash. Candy. 296,577; Apr. 8. Class 46.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes. 294,843; Apr. 8. Class 39.

Browning, King & Co., New York, N. Y. Neckties, hosiery, pajamas, etc. 295,205; Apr. 8. Class 39.

Buena Vista Mills, Buena Vista, Va. Wheat flour. 296,578; Apr. 8. Class 46.

Burki & Cie., Bern, Switzerland. Cheese. 295,555; Apr. 8. Class 46.

Caldwell, John R., doing business as The Pioneer Products Co., Steubenville, Ohio. Ointment for the treatment of skin diseases. 296,479; Apr. 8. Class 6.

Carafiol-Silverman Garment Co., St. Louis, Mo. Canton fabric. 289,264; Apr. 8. Class 42.

Carter, J. W., Company, Nashville, Tenn. Boots, shoes, and slippers. 295,252; Apr. 8. Class 39.

Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 296,260; Apr. 8. Class 37.

Chantiers Navals & Chaudronneries du Midi Marseille, France. Steam boilers, superheaters, furnaces, etc. 293,518; Apr. 8. Class 34.

Columbus Coated Fabrics Corporation, Columbus, Ohio. Pyroxylin-coated fabrics. 294,915; Apr. 8. Class 50.

Container Sales Company, Inc., New York, N. Y. Jars. 248,813; Apr. 8. Class 33.

Couture, E. A., Modesto, Calif. Fresh grapes. 266,790; Apr. 8. Class 46.

Craftex Company, Boston, Mass. Painters' wall sisings, colorings, and glazes, paint, etc. 292,201; Apr. 8. Class 16.

Crocker-Wheeler Electric Manufacturing Company, Ampere, N. J. Electric generators and electric motors and starters for the motors. 293,211; Apr. 8. Class 21.

D'Arrigo Bros. Co., Boston, Mass., and San Jose, Calif. Fresh broccoli, fresh prickly pears, and fresh tomatoes 271,535; Apr. 8. Class 46.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

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[Act of Feb, 20. 1905, Sec. 6, as amended Mar. 2, 1907]

Dean, Clyde, doing business as Dean Ink Company, Chicago, Ill. Writing ink. 295,507; Apr. 8. Class 11.

Decatur Pump Company, Decatur, Ill. Pumps and pumping units. 295,929–30; Apr. 8. Class 23.

Dempster Mill Manufacturing Company, Beatrice, Nebr. Cup leathers for pumps. 295,562; Apr. 8. Class 35.

Demuth, William, & Company, New York, N. Y. Combination bottle opener and corkscrew. 296,323; Apr. 8. Class 23.

Design Mfg. Co. Inc., Rochester, N. Y. Optical frames. 295,255; Apr. 8. Class 26.

Diamond Match Company, The, Chicago, Ill. Toothpicks. 294,211; Apr. 8. Class 44.

Dickinson Fuel Company, Charleston, W. Va. Coal. 295,727; Apr. 8. Class 1.

Donavan, James E., Millis, Mass. Boots and shoes. 293,812; Apr. 8. Class 39.

Drug Products Co., Inc., The, Long Island City, N. Y. Skin lotion. 295,935; Apr. 8. Class 6.

Duplan Silk Corporation, New York, N. Y. Piece goods. 296,588; Apr. 8. Class 42.

Egyptian Products Co., Newark, N. J. Hair-coloring preparation and hair-shampoo preparation. 295,893; Apr. 8. Class 6.

Empire Paper Company, Chicago, Ill. Bond, ledger, and writing papers. 292,773; Apr. 8. Class 37.

Endicott Johnson Corporation, New York, N. Y. Hosiery. 296,178; Apr. 8. Class 39.

Endo, Sute M., doing business as Royal Laboratories, Honolulu, Hawaii. Hairdressing. 295,108; Apr. 8. Class 6.

Etna Watch Company, New York, N. Y. Time recorders, clocks, and watches. 296,413; Apr. 8. Class 27.

Farmers' Stone-Picking Machine Company, The, Baltimore, Md. Stone-picking machines. 296,223; Apr. 8. Class 23.

Feinstein, Louis, doing business as Scientific Research Laboratories, Los Angeles, Calif. Digestive tonic. 289,068; Apr. 8. Class 6.

First National Stores Inc., Boston and Somerville, Mass. Baking soda, starch, borax, etc. 295,669; Apr. 8. Class 6.

First National Stores Inc., Boston and Somerville, Mass. Candles. 295,670; Apr. 8. Class 15.

Firth-Sterling Steel Company, McKeesport, Pa. Steel bars, forgings, and blocks, etc. 293,921; Apr. 8. Class 14.

Freudenberg, Carl, Incorporated, Boston, Mass. Leather. 295,369; Apr. 8. Class 1.

Friedlen, H. L., & Company, Chicago, Ill. Flying suits, leather coats, leather vests, etc. 292,493; Apr. 8. Class 39.

Friedrichs, Wilhelm, Reinickendorf-Ost, near Berlin, Germany. Postal franking machines, parcel-post stamping machines, etc. 292,626; Apr. 8. Class 23.

Garber Tool Co., Inc., Garber, Okla. Rotary rock-bit cones. 294,722; Apr. 8. Class 23.

Gas and Electric Heater Co., La Porte, Ind. Gas and electric water-supply heaters. 294,630; Apr. 8. Class 34.

Gaut-Blancan & Cie., Paris, France. Artists' dry colors, colors in oil, and water colors. 294,351; Apr. 8. Class 16.

General Dry Batteries, Inc., Cleveland, Ohio. Electric batteries. 276,074; Apr. 8. Class 21.

Goldman, Moe, doing business as Kake-O-Lax Products, Atlanta, Ga. Laxatives. 295,672; Apr. 8. Class 6.

Good Story Magazine Company, Inc., New York, N. Y. Magazine. 295,563; Apr. 8. Class 38.

Good Story Magazine Company, Inc., New York, N. Y. Monthly magazine. 296,741–3; Apr. 8. Class 38.

Governor and Company of Adventurers of England, Trading into Hudson's Bay, The, doing business as Hudson's Bay Company, Winnipeg, Manitoba, Canada. Teas and coffees. 295,613–15; Apr. 8. Class 46.

Greenhouse, Martin E., Philadelphia, Pa. Safety-razor blades. 288,453; Apr. 8. Class 23.

Gristede Bros., Inc., New York, N. Y. Tea. 296,419; Apr. 8. Class 46.

Groub, John C., Company, The, doing business as The Jay C. Stores, Seymour and Mitchell, Ind. Wheat flour and coffee. 274,108; Apr. 8. Class 46.

Guenther, Paul, Inc., New York, N. Y. Hosiery. 296,272; Apr. 8. Class 39.

Gulf States Chemical Co., Inc., Harlingen, Tex. Agricultural insecticides. 293,774; Apr. 8. Class 6.

Ha-Ber-San Manufacturing Corp., New York, N. Y. Shirts, pajamas, and underwear. 295,157; Apr. 8. Class 39.

Ha-Ber-San Mfg. Corp., New York, N. Y. Shirts, pajamas, and blouses. 295,158; Apr. 8. Class 39.

Hahne & Company, Newark, N. J. Fruits, sweets, mayonnaise, etc. 287,966; Apr. 8. Class 46.

Hamilton, John D., Co., Tacoma, Wash. Candy. 296,421; Apr. 8. Class 46.

Harrison and Ross, Tucson, Ariz. Ice-cream suckers. 277,625; Apr. 8. Class 46.

Hartzuch, Earl R., doing business as Hartzuch, Chicago, Ill. Salad dressing. 296,346; Apr. 8. Class 46.

Heintz-Merkle & Co., Inc., Philadelphia, Pa. Potato grills. 296,594; Apr. 8. Class 46.

Hemostat Products Co. (See Odom, Anthony M., jr.)

Hempel, Frieda, Inc., New York, N. Y. Cosmetics. 291,918; Apr. 8. Class 6.

Hendel, Julius, doing business as Hendel Manufacturing Co., New London, Conn. Athletic running pants for men. 293,469; Apr. 8. Class 39.

Higgins, E. F., Laboratories, Inc., Brooklyn, N. Y. Lacquers and lacquer thinners. 284,335; Apr. 8. Class 16.

Higgins, E. F., Laboratories, Inc., New York and Brooklyn, N. Y. Imitation pearls and imitation-pearl necklaces. 295,675; Apr. 8. Class 28.

Hill, James W., doing business as J. W. Hill, Memphis, Tenn. Ointments. 296,597; Apr. 8. Class 6.

Hoggson & Pettis Manufacturing Company, The, New Haven, Conn. Card or ticket punch. 294,804; Apr. 8. Class 23.

Hollywood Laboratories, Inc., Iowa City, Iowa, and Hollywood, Calif. Skin cream. 293,970; Apr. 8. Class 6.

Hudson's Bay Company. (See Governor and Company of Adventurers of England, Trading into Hudson's Bay, The.)

Huron Beverage Co. (See Poellinger, Jos.)

Hyde Manufacturing Company, Southbridge, Mass. Wallpaper trimmers, parts thereof, paper-trimming outfits, shears, etc. 292,071; Apr. 8. Class 23.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Odoriferous and aromatic chemicals. 287,744; Apr. 8. Class 6.

Indianapolis Glove Company, Indianapolis, Ind. Gloves. 295,179; Apr. 8. Class 39.

International Extract Co. (See Paul, Milton.)

International Gas Products, Inc., Monroe, La. Carbon black. 295,851; Apr. 8. Class 6.

International Products Corporation, New York, N. Y. Bouillon cubes and bouillon in powdered form. 287,927; Apr. 8. Class 46.

Jay C. Stores, The. (See Groub, John C., Company, The.)

Jelke, John F., Company, Chicago, Ill. Oleomargarine. 294,308; Apr. 8. Class 46.

Jend Drug Company. (See Segal, Nathaniel J.)

Jevne, H., Co., Los Angeles, Calif. Bakery products. 296,424; Apr. 8. Class 46.

Junkers, Hugo, Dessau, Germany. Refrigerating machines and apparatus and parts thereof. 279,980; Apr. 8. Class 21.

Kahane, Abraham, Winnipeg, Manitoba, Canada. Chemical preparations. 290,286; Apr. 8. Class 6.

Kake-O-Lax Products. (See Goldman, Moe.)

Karlsruher Parfümerie- & Toilettenseifen-Fabrik F. Wolff & Sohn G. m. b. H., Karlsruhe, Germany. Toilet preparations, toilet water, and bath salts. 286,939; Apr. 8. Class 6.

Kauf & Rinderspacher Co., Hastings, Nebr. Pork, beef, dressed fowl, etc. 239,586; Apr. 8. Class 46.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Boots, shoes, slippers, and footwear. 293,839; Apr. 8. Class 39.

Kessinger, Harry, doing business as The Harry Kessinger Company, Houston, Tex. Laxative preparation. 296,426; Apr. 8. Class 6.

Kickbusch, A., Grocery Co., Wausau, Wis. Writing paper, wrapping paper, and toilet paper. 294,264; Apr. 8. Class 37.

Kleinschmidt, E. Walter, doing business as Lido Sweet Shop, Maywood, Ill. Buttered and dried pop corn, roasted and salter peanuts. 289,280; Apr. 8. Class 46.

Knott, Wm. T., Company, Inc., New York, N. Y. Ladies' aviation outfits. 293,779; Apr. 8. Class 39.

Kotex Pharmacal Company, Maspeth, N. Y. Vaginal suppositories and antiseptic. 290,026; Apr. 8. Class 6.

Kress, S. H., & Co., New York, N. Y. Ladies' garters. 291,880; Apr. 8. Class 39.

Laboratoire de Pharmacologie, Inc., New York, N. Y. Ampoules containing magnesia. 296,279; Apr. 8. Class 6.

La Grove, Minnie M. (See Odom, Anthony M., jr., assignor.)

Lamicel Products Inc., New York, N. Y. Laminated sheets. 294,639; Apr. 8. Class 50.

Landgren, Anders, Yonkers, N. Y. Antirheumatism oil. 295,853; Apr. 8. Class 6.

Lazarus, F. & R., & Company, The, Columbus, Ohio. Children's hose. 275,286; Apr. 8. Class 39.

Lewis Bros., Inc., New York, N. Y. Hair tonic. 296,281; Apr. 8. Class 6.

Lido Sweet Shop. (See Kleinschmidt, E. Walter.)

Link-Belt Company, Chicago, Ill. Chains, chain belts, and parts thereof. 249,075; Apr. 8. Class 13.

Liondale Shirt Company, Inc., New York, N. Y. Shirts, pajamas, and collars. 295,184; Apr. 8. Class 39.

Liquid Cooler Corporation, Detroit, Mich. Mechanically-refrigerated water coolers and beverage coolers, cabinets, etc. 296,067; Apr. 8. Class 31.

Louisville Times, The, Louisville, Ky. Newspaper section. 296,678; Apr. 8. Class 38.

Lustig's, Youngstown, Ohio. Boots and shoes. 282,305; Apr. 8. Class 39.

Lyon, Waldo, Traverse City, Mich. Booklets, pamphlets, real estate and financial publications. 296,507; Apr. 8. Class 38.

Maier, Sophia, Chicago, Ill. Candy. 296,867; Apr. 8. Class 46.

Manufacturers Record Publishing Company, Baltimore, Md. Daily newspaper. 296,536; Apr. 8. Class 38.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Marsh, Lucien A., doing business as L. A. Marsh Manufacturing Co., San Francisco, Calif. Bridge tables. 295,339; Apr. 8. Class 32.
Master Shirt & Blouse Co., Philadelphia, Pa. Men's and boys' dress and negligee shirts, etc. 284,242; Apr. 8. Class 39.
McNeece, John H., Middleboro, Mass. Eggs and fresh vegetables. 289,757; Apr. 8. Class 46.
Merchants' Minute Men of America, Shreveport, La. Bulletins and pamphlets. 296,308; Apr. 8. Class 38.
Mexican Gulf Packing Co. Inc., Pascagoula, Miss. Canned shrimp and oysters. 294,676; Apr. 8. Class 46.
Michigan City Tanning Company, The, Michigan City, Ind. Leather. 294,735; Apr. 8. Class 1.
Miller, Michael, Fur Dyeing Corporation, New York and Brooklyn, N. Y. Fur skins. 295,905; Apr. 8. Class 1.
Mitchell Wing Corporation, Cambridge, Mass. Apron duck. 296,662; Apr. 8. Class 42.
Modern Pharmacal Co. Inc., New York, N. Y. Tonic and preparation for the treatment of nervous diseases and indigestion. 291,631; Apr. 8. Class 6.
Montgomery Ward & Co., Incorporated, Chicago, Ill. Internal-combustion engines. 292,743; Apr. 8. Class 23.
Myrurgia S. A., Barcelona, Spain. Perfumes and face powder. 284,075; Apr. 8. Class 6.
National Washboard Company, Chicago, Ill. Washboards. 295,804; Apr. 8. Class 24.
"Nieso" Stahl- und Metallwarenfabrik Gebr. Niepenberg, Wald-Solingen, Germany. Safety-razor blades. 293,785; Apr. 8. Class 23.
North American Dye Corporation, Mount Vernon, N. Y. Bluing. 296,543; Apr. 8. Class 6.
Northwestern Leather Company Trust, Boston, Mass. Leathers. 295,860–1; Apr. 8. Class 1.
Odom, Anthony M., jr., doing business as Hemostat Products Co., Jackson, Miss., assignor to Minnie May La Grove, Blackwell, Okla. Preparation for use in operations for tonsilitis and adenoids, bleeding gums, etc. 279,191; Apr. 8. Class 6.
Ogden-Utah Knitting Company, Ogden, Utah. Frocks or outer garments. 295,689; Apr. 8. Class 39.
Operadio Manufacturing Company, St. Charles, Ill. Radio speakers. 293,149; Apr. 8. Class 21.
O-Tas-O Products Company. (See Thayer, J. Earl.)
Paniplus Company, The, Wilmington, Del. Whole-wheat flour. 294,993; Apr. 8. Class 46.
Patton, W. A., Catlettsburg, Ky. Fresh apples. 264,902; Apr. 8. Class 46.
Paul, Milton, doing business as International Extract Co., New York, N. Y. True fruit and imitation flavoring extracts. 296,438; Apr. 8. Class 45.
Peavyhouse, William W., doing business as Blue Grass Pinless Clothesline Machine, Lexington, Ky. Machines for making pinless clotheslines. 294,398; Apr. 8. Class 23.
Perin-Walsh Co., Boston, Mass. Truck bodies. 295,809; Apr. 8. Class 19.
Pharmacal Manufacturing Co., Cleveland, Ohio. Pyorrhea solution. 296,439; Apr. 8. Class 6.
Pioneer Products Co., The. (See Caldwell, John R.)
Poellinger, Jos., doing business as Huron Beverage Co., Huron, S. Dak. Carbonated maltless beverages. 295,865; Apr. 8. Class 45.
Porter, George H., doing business as Queen Manufacturing Company, Falconer, N. Y. Dental waxes. 295,810; Apr. 8. Class 44.
Queen Manufacturing Company. (See Porter, George H.)
Racklif & Co. Incorporated, New York, N. Y. Magazines. 295,534; Apr. 8. Class 38.
Raybestos-Manhattan, Incorporated, Bridgeport, Conn. Fan belts, radiator hose, tubing, etc. 294,400; Apr. 8. Class 35.
Real Sport Clothing Co., Philadelphia, Pa. Breeches. 296,199–200; Apr. 8. Class 39.
Red Sun Products Company, Chicago, Ill. Malt syrup. 295,761; Apr. 8. Class 46.
Rheinstrom Bros. Co., The, Cincinnati, Ohio. Mayonnaise, salad dressing, tartar sauce, etc. 284,202; Apr. 8. Class 46.
Rice-Neuman Co., Milwaukee, Wis. Ladies' hosiery and knitted underwear. 277,021; Apr. 8. Class 39.
Rich Art Color Co., Inc., New York, N. Y. Artists' materials. 293,234; Apr. 8. Class 16.
Richter, Charles M., Chicago, Ill. Magazine. 295,866; Apr. 8. Class 38.
Robinson, Paul, Belleville, N. J. Newspaper cartoons. 296,447; Apr. 8. Class 38.
Ross Tobacco Company, Louisville, Ky. Leaf tobacco. 294,995; Apr. 8. Class 17.
Roush, Hubert E., doing business as Roush Drug Company, Humeston, Iowa. Inhalant for the treatment of head colds, hay fever, nasal catarrh, etc. 293,448; Apr. 8. Class 6.
Royal Laboratories. (See Endo, Sute M.)
Salvo, John, doing business as F. J. Salvo & Son, St. Louis, Mo. Antifreeze mixture for automobiles. 289,046; Apr. 8. Class 6.
Sar, H. Stewart, doing business as American Masters Press, Hollywood, Calif. Publications. 291,359; Apr. 8. Class 38.
Sawyer Goodman Company, Marinette, Wis. Hardwood flooring. 295,642; Apr. 8. Class 12.
Schaengold, Benjamin, Cincinnati, Ohio. Hats. 294,949–50; Apr. 8. Class 39.
Schallern's Drug Store. (See von Schallern, Eugene.)
Schindler's Peanut Products, Inc., Washington, D. C. Salted peanuts. 296,202; Apr. 8. Class 46.
Schultz, Samuel, Philadelphia, Pa. Wall paper. 293,111; Apr. 8. Class 37.
Schwartz, Lillian, Philadelphia, Pa. Storage batteries. 295,055; Apr. 8. Class 21.
Scientific Research Laboratories. (See Feinstein, Louis.)
Segal, Nathaniel J., doing business as Jend Drug Company, Baltimore, Md. Digestive compound, mouth wash, nasal oil, etc. 291,938; Apr. 8. Class 6.
Sheinker, Elias, doing business as W. Sheinker & Son, New York, N. Y. Flavoring medium. 295,577; Apr. 8. Class 46.
Shuttles Bros. & Lewis, Dallas, Tex. Finger rings. 295,813; Apr. 8. Class 28.
Silica Gel Corporation, The, Baltimore, Md. Adsorbent material. 283,420; Apr. 8. Class 6.
Silica Gel Corporation, The, Baltimore, Md. Hard, solid, vitreous adsorbent material consisting of dried silicic acid. 291,586; Apr. 8. Class 6.
South Bend Bait Co., South Bend, Ind. Fishing reels. 296,363; Apr. 8. Class 22.
Squibb, E. R., & Sons, New York, N. Y. Mouth wash. 295,281; Apr. 8. Class 6.
Stabavite Syndicate Limited, London, England. Medicinal preparations. 294,365; Apr. 8. Class 6.
Standard Brake Shoe & Foundry Company, Pine Bluff, Ark. Finished steel castings. 295,282; Apr. 8. Class 14.
Starr Fruit Products Co., Portland, Oreg. Canned fruits. 296,366; Apr. 8. Class 46.
Stone & Tar Products Co., Brooklyn, N. Y. Paints. 292,756; Apr. 8. Class 16.
Storey, William H., Southend-on-Sea, England. Board game. 294,899; Apr. 8. Class 22.
Sunnymede Farms. (See Waddell, John L.)
Tec-Art Studios, Inc., Los Angeles, Calif. Motion-picture and sound-producing film. 294,095; Apr. 8. Class 26.
Tennessee Mineral Products Corporation, Spruce Pine, N. C. Ground felspar. 292,760; Apr. 8. Class 1.
Thayer, J. Earl, doing business as O-Tas-O Products Company, Sidney, Nebr., and Denver, Colo. Preparations for use in treating head colds, hay fever, etc. 296,299; Apr. 8. Class 6.
Thermatomic Carbon Company, The, Pittsburgh, Pa. Carbon black. 296,555; Apr. 8. Class 6.
Thomas Mills, Inc., High Point, N. C. Hosiery. 296,284; Apr. 8. Class 39.
Tomby, B., & Co. Inc., New York, N. Y. Glassware. 294,651; Apr. 8. Class 33.
Triangle Raincoat Co., Inc., New York, N. Y. Raincoats. 283,067; Apr. 8. Class 39.
Twin City Milk Producers Association, St. Paul, Minn. Spray powder milk. 292,298; Apr. 8. Class 46.
United States Air Compressor Company, The, Cleveland, Ohio. Unitary articles and a motor for operating the same. 284,593; Apr. 8. Class 23.
Utility Manufacturing Co., Inc., Baltimore, Md. Ice picks, kitchen forks, spoons, etc. 295,405; Apr. 8. Class 28.
Van Raalte Company, New York, N. Y. Hosiery. 296,089; Apr. 8. Class 39.
Von Damm, Henry W., doing business as F. H. Von Damm, Brooklyn, N. Y. Birdseeds, turtle food, etc. 294,195; Apr. 8. Class 46.
Von Schallern, Eugene, doing business as Schallern's Drug Store and Von Schallern Drug Co., Ripon, Wis. Effervescent powdered salt. 287,683; Apr. 8. Class 6.
Waddell, John L., doing business as Sunnymede Farms, Highland Park and Bismarck, Mo. Eggs, dressed poultry, butter, etc. 282,075; Apr. 8. Class 46.
Wenner, Peter, Bozeman, Mont. Preparation for piles. 279,512; Apr. 8. Class 6.
Webster Rubber Company, Sabbatus, Me. Rubber dollies. 294,197; Apr. 8. Class 50.
West India Oil Company, Bayonne, N. J. Candles. 293,499; Apr. 8. Class 15.
Western Clock Company, Peru, Ill. Clocks and watches. 287,985; Apr. 8. Class 27.
Westerner Publishing Company, The, Salt Lake City, Utah. Magazine. 295,105; Apr. 8. Class 38.
Wilhelm, Henry N., Memphis, Nebr. Compound used for external application to horses. 296,304; Apr. 8. Class 6.
Worthington Pump and Machinery Corporation, New York, N. Y. Power-transmission machinery. 295,970; Apr. 8. Class 23.
Worzalla Publishing Co., Stevens Point, Wis. Monthly magazine. 296,622; Apr. 8. Class 38.
"Yacco" S. A. F., Paris, France. Lubricating oils and greases. 284,432; Apr. 8. Class 15.
Ziv Steel & Wire Co., Chicago, Ill. Tool and die steel. 296,879; Apr. 8. Class 14.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather. J. Greenebaum Tanning Company. 269,562; Apr. 8.
Rubber. Federal Rubber Company. 269,541–2; Apr. 8; Serial Nos. 288,906–7; published Jan. 28, 1930.
Rubber and composition slabs. Essex Rubber Company Inc. 269,498; Apr. 8; Serial No. 291,084; published Jan. 28, 1930.
Rubber, uncured sheet rubber, Compounded unvulcanized. Federal Rubber Company. 269,499; Apr. 8; Serial No. 288,908; published Jan. 28, 1930.
Trees, Apple. Columbia & Okanogan Nursery Company. 269,473; Apr. 8; Serial No. 281,344; published Jan. 28, 1930.

CLASS 2

Cases, Cardboard flats or pads for use in egg. Egg Saver Package Company. 269,571; Apr. 8.

CLASS 4

Cleaner, Dry. Apex Motor Fuel Company. 269,502; Apr. 8; Serial No. 228,792; published July 5, 1927.
Soaps. R. M. Froehlich. 269,544; Apr. 8; Serial No. 292,930; published Jan. 28, 1930.
Solvent for cleaning. Western Chemical Co. 269,552; Apr. 8; Serial No. 292,513; published Jan. 28, 1930.
Washing fluid. I'm Alone Products Company. 269,459; Apr. 8; Serial No. 292,195; published Jan. 28, 1930.

CLASS 6

Astringent, antiseptic gargle, and deodorant, Mouth. I. Greenberg. 269,490; Apr. 8; Serial No. 292,664; published Jan. 21, 1930.
Chemical preparation. Chipman Chemical Engineering Company. 269,496; Apr. 8; Serial No. 292,065; published Jan. 21, 1930.
Compound for treatment of cold sores, ringworm, itch, etc. Henderson & Skipworth. 269,491; Apr. 8; Serial No. 292,567; published Jan. 21, 1930.
Cream, Face. Florian, Inc. 269,505; Apr. 8; Serial No. 276,937; published Jan. 21, 1930.
Dentifrices, talcum powders, quinine, etc. Sydney Ross Co. 269,455; Apr. 8; Serial No. 293,881; published Jan. 21, 1930.
Dentifrices, talcums, saccharin, etc. Sydney Ross Co. 269,454; Apr. 8; Serial No. 293,882; published Jan. 21, 1930.
Liniment. Lanman & Kemp, Inc. 269,493; Apr. 8; Serial No. 292,537; published Jan. 21, 1930.
Liniment. Shields Croup Liniment Co. 269,458; Apr. 8; Serial No. 292,251; published Jan. 28, 1930.
Medicinal preparation. R. A. Boice. 269,569; Apr. 8.
Medicinal preparation. Cynthia Brown's Indian Compound Co. 269,474; Apr. 8; Serial No. 280,880; published Jan. 21, 1930.
Medicinal preparation. G. G. Ulmer. 269,483–6; Apr. 8; Serial Nos. 292,837–40; published Jan. 21, 1930.
Medicine. T. F. O'Reilly. 269,548; Apr. 8; Serial No. 292,632; published Jan. 28, 1930.
Powder and rouge, Face. Lucien Lelong, Inc. 269,464; Apr. 8; Serial No. 291,676; published Jan. 21, 1930.
Salve or ointment of witch-hazel. Lanman & Kemp, Inc. 269,492; Apr. 8; Serial No. 292,540; published Jan. 21, 1930.
Shampoo preparation. William Cooper & Nephews, Incorporated. 269,546; Apr. 8; Serial No. 292,718; published Jan. 28, 1930.
Soda mint and pepsin, potassium chlorate, saccharine soluble, etc. E. Wildman. 269,504; Apr. 8; Serial No. 201,870; published Nov. 11, 1924.
Solvent and pipe cleaner, Drainpipe. P. M. Frank Disinfecting Co. 269,564; Apr. 8.
Witch-hazel, Double extract of. Lanman & Kemp, Inc. 269,520; Apr. 8; Serial No. 292,538; published Jan. 21, 1930.

CLASS 10

Fertilizers, Liquid. A. Nemeth. 269,551; Apr. 8; Serial No. 292,544; published Jan. 28, 1930.

CLASS 12

Asphalt emulsion. Flintkote Company. 269,495; Apr. 8; Serial No. 292,099; published Jan. 28, 1930.
Brick. E. V. Poston. 269,466; Apr. 8; Serial No. 283,696; published Jan. 28, 1930.
Brick. E. V. Poston. 269,519; Apr. 8; Serial No. 283,893; published Jan. 28, 1930.
Cement. Refractory. Inland Fire Brick Company. 269,497; Apr. 8; Serial No. 291,874; published Jan. 28, 1930.
Chemical mixture and color mixtures. G. E. Barnhart. 269,488; Apr. 8; Serial No. 292,783; published Jan. 28, 1930.
Waterproofing compound. Con-Tex Corporation. 269,515; Apr. 8; Serial No. 284,720; published Jan. 28, 1930.

CLASS 13

Enameled ware. Columbian Enameling & Stamping Co. 269,510; Apr. 8; Serial No. 274,037; published Jan. 7, 1930.
Grilles, Lock-crimp-mesh. Logan Co. 269,563; Apr. 8.

CLASS 14

Castings, Metal. Robbins & Myers, Inc. 269,545; Apr. 8; Serial No. 292,827; published Jan. 14, 1930.
Castings, Steel. Farrell-Cheek Steel Foundry Co. 269,463; Apr. 8; Serial No. 291,860; published Jan. 21, 1930.
Copper and brass ingots. South Bend Smelting & Refining Co. 269,550; Apr. 8; Serial No. 292,555; published Jan. 28, 1930.
Iron, steel, and alloy steel, rolled and drawn bars, rods, etc. National Steel Company. 269,555; Apr. 8; Serial No. 292,456; published Jan. 21, 1930.
Metal alloys. Haynes Stellite Company. 269,549; Apr. 8; Serial No. 292,602; published Jan. 28, 1930.
Metal alloys. Haynes Stellite Company. 269,557; Apr. 8; Serial No. 292,450; published Jan. 28, 1930.

CLASS 15

Gasoline and lubricating oil and grease. Firestone Tire & Rubber Company. 269,445; Apr. 8; Serial No. 291,721; published Jan. 28, 1930.
Oil, Lubricating and penetrating. Emerol Manufacturing Co. 269,513; Apr. 8; Serial No. 270,961; published Oct. 30, 1928.
Oils and greases, Lubricating. Pennsoil Company. 269,509; Apr. 8; Serial No. 275,238; published Feb. 26, 1929.

CLASS 16

Coating, cement paint, etc., Roof. National Tank Seal Company. 269,394; Apr. 8; Serial No. 289,286; published Jan. 28, 1930.
Dressing, Floor. Masury-Young Company. 269,556; Apr. 8; Serial No. 292,454; published Jan. 21, 1930.
Enamel, tire paints, touch-up enamel, etc. Pep Boys—Manny, Moe & Jack. 269,398; Apr. 8; Serial No. 286,715; published Jan. 28, 1930.
Lacquer undercoats and enamels, nitrate dope or clear lacquer, etc. Valentine & Company. 269,547; Apr. 8; Serial No. 292,691; published Jan. 28, 1930.
Paint. Charles Moser Company. 269,467; Apr. 8; Serial No. 283,579; published June 18, 1929.
Paints. L. F. Cassoff. 269,508; Apr. 8; Serial No. 275,555; published Jan. 28, 1930.
Paints and paint pigments. O. Wilson. 269,395; Apr. 8; Serial No. 288,736; published Jan. 28, 1930.
Paints and varnishes. Gamble Stores, Incorporated. 269,553; Apr. 8; Serial No. 292,494; published Jan. 28, 1930.
Polish and cleaner. Rex-Lin Corporation. 269,462; Apr. 8; Serial No. 291,891; published Jan. 14, 1930.
Varnish. Alfred Peats Company. 269,479; Apr. 8; Serial No. 279,877; published June 4, 1929.

CLASS 21

Electric batteries, electric flash lights, etc. Bright Star Battery Company. 269,446; Apr. 8; Serial No. 292,714; published Jan. 14, 1930.
Electric lanterns. Delta Electric Company. 269,435; Apr. 8; Serial No. 292,797; published Jan. 14, 1930.
Electrical advertising signs. Carew-Leidgen, Inc. 269,449; Apr. 8; Serial No. 291,049; published Jan. 14, 1930.
Ignition apparatus. Robert Bosch Magneto Company. 269,440; Apr. 8; Serial No. 292,574; published Jan. 14, 1930.
Ozone generating machines. H. Rosenfeld. 269,447; Apr. 8; Serial No. 291,639; published Jan. 14, 1930.
Radio receiving sets. Thomas A. Edison Incorporated. 269,444; Apr. 8; Serial No. 291,868; published Jan. 14, 1930.
Radio receiving sets. Gamble Stores, Incorporated. 269,441; Apr. 8; Serial No. 292,495; published Jan. 14, 1930.
Radio receiving sets and kits. Pilot Radio & Tube Corporation. 269,537; Apr. 8; Serial No. 293,067; published Jan. 14, 1930.
Radiospeakers. Operadio Manufacturing Company. 269,535; Apr. 8; Serial No. 293,150; published Jan. 14, 1930.
Resistances, Fixed and variable. Compo Mfg. Co. 269,536; Apr. 8; Serial No. 293,131; published Jan. 14, 1930.

CLASS 22

Boards used in games. Bishop Products Company. 269,523; Apr. 8; Serial No. 293,404; published Jan. 21, 1930.
Fishing rods. G. H. Mansfield & Co. Inc. 269,461; Apr. 8; Serial No. 291,991; published Jan. 21, 1930.

Game, Table. E. O. Roark. 269,525; Apr. 8; Serial No. 293,072; published Jan. 28, 1930.
Kindergarten paint sets, game beads, puzzle boards, etc. Ullman Manufacturing Company. 269,452; Apr. 8; Serial No. 293,015; published Jan. 28, 1930.
Toy aeroplanes, artificial bait, golf balls, etc. L. Bamberger & Co. 269,393; Apr. 8; Serial No. 290,297; published Nov. 26, 1929.
Toy blocks. Appleton Wood Products Co. 269,387; Apr. 8; Serial No. 291,604; published Jan. 21, 1930.
Toy irons and cooking ranges, Electric. Metropolitan Mfg. & Electric Co. 269,524; Apr. 8; Serial No. 293,227; published Jan. 21, 1930.

CLASS 23

Apparatus for removing wall paper. Miller Manufacturing Company. 269,433; Apr. 8; Serial No. 292,886; published Jan. 28, 1930.
Conveyors. C. R. Claghorn. 269,434; Apr. 8; Serial No. 292,865; published Jan. 28, 1930.
Pumps, pumping units. Decatur Pump Company. 269,438; Apr. 8; Serial No. 292,620; published Jan. 28, 1930.
Razors, safety-razor blades, knives, and scissors. Joseph Rodgers & Sons Limited. 269,532; Apr. 8; Serial No. 293,349; published Jan. 28, 1930.
Reamers, reamer pilots, reamer guides, etc. Evans Flexible Reamer Corporation. 269,443; Apr. 8; Serial No. 291,968; published Jan. 28, 1930.
Sewing machines. Associated Merchandising Corporation. 269,529; Apr. 8; Serial No. 293,463; published Jan. 28, 1930.
Sheeve blocks. Buckhout Boat Corporation. 269,506; Apr. 8; Serial No. 276,768; published Jan. 28, 1930.

CLASS 26

Binoculars. C-All-Scope Corporation. 269,439; Apr. 8; Serial No. 292,612; published Jan. 28, 1930.
Cameras, Photographic. Eastman Kodak Company. 269,526; Apr. 8; Serial No. 293,522; published Jan. 28, 1930.
Electric-lighting units. Hall & Connolly, Inc. 269,457; Apr. 8; Serial No. 287,394; published Jan. 28, 1930.
Picture photoplays, Motion-. Universal Pictures Corporation. 269,528; Apr. 8; Serial No. 293,495; published Jan. 28, 1930.
Scales. Vogel and Halke. 269,442; Apr. 8; Serial No. 292,378; published Jan. 21, 1930.
Spectacle frames. Riggs Optical Company. 269,530; Apr. 8; Serial No. 293,451; published Jan. 28, 1930.

CLASS 28

Finger rings and mountings therefor. Benjamin & Edward J. Gross Co. 269,469; Apr. 8; Serial No. 282,707; published Jan. 14, 1930.
Hollow ware of base metal, Table. Friedman Silver Co. 269,436; Apr. 8; Serial No. 292,724; published Jan. 14, 1930.

CLASS 32

Hatracks. H. R. Austin. 269,527; Apr. 8; Serial No. 293,511; published Jan. 28, 1930.
Mattresses, pillows, cushions, etc. Burton-Dixie Corporation. 269,501; Apr. 8; Serial No. 237,652; published Nov. 9, 1926.

CLASS 34

Furnaces, Heat-treating. Standard Fuel Engineering Company. 269,566; Apr. 8.
Glare shields. Killglare Corporation. 269,567; Apr. 8.
Stokers, Automatic. Frederick Iron & Steel Company. 269,565; Apr. 8.

CLASS 35

Inner tubes for tires. A. Meyerowitz. 269,534; Apr. 8; Serial No. 293,228; published Jan. 28, 1930.
Tire casings and tubes, Pneumatic. Corliss Anderson Tire Corporation. 269,533; Apr. 8; Serial No. 293,312; published Jan. 28, 1930.

CLASS 36

Orchestral instruments. Carl Fischer Inc. 269,448; Apr. 8; Serial No. 291,158; published Jan. 14, 1930.
Talking machines and parts thereof. Gebrüder Scharf. 269,456; Apr. 8; Serial No. 289,694; published Jan. 14, 1930.
Zylophones. Wm. Filene's Sons Company. 269,451; Apr. 8; Serial No. 289,737; published Jan. 28, 1930.

CLASS 37

Books, Loose-leaf blank. Sales Equipment Company. 269,514; Apr. 8; Serial No. 270,758; published Mar. 12, 1929.
Paper, Mulch. International Paper Company. 269,481; Apr. 8; Serial No. 292,994; published Jan. 21, 1930.
Paper, papeteries, etc., Writing and printing. Strathmore Paper Company. 269,391; Apr. 8; Serial No. 290,913; published Jan. 28, 1930.
Paper, Parchment wrapping. Paterson Parchment Paper Co. 269,397; Apr. 8; Serial No. 287,841; published Jan. 21, 1930.
Registers. Autographic Register Company. 269,390; Apr. 8; Serial No. 290,928; published Jan. 28, 1930.
Tallies, place and score cards, and tally holders. Buzza Company Inc. 269,388; Apr. 8; Serial No. 291,320; published Jan. 21, 1930.

CLASS 38

Advertisements, Comic. W. W. Crook. 269,570; Apr. 8.
Drawings, tracings, and prints thereof, Architectural. Indiana Limestone Company. 269,558; Apr. 8; Serial No. 292,360; published Jan. 28, 1930.
Magazine. Good Story Magazine Company. 269,389; Apr. 8; Serial No. 291,030; published Jan. 28, 1930.
Magazines or periodicals. American Optical Company. 269,554; Apr. 8; Serial No. 292,478; published Jan. 21, 1930.
Newspaper, Daily. Perth Amboy Evening News Co. 269,465; Apr. 8; Serial No. 293,066; published Jan. 21, 1930.
Periodical. National Federation of Business and Professional Women's Clubs, Inc. 269,460; Apr. 8; Serial No. 292,000; published Jan. 28, 1930.

CLASS 39

Cloaks, suits, dresses, shoes, etc. Three Sisters, Inc. 269,410; Apr. 8; Serial No. 290,723; published Jan. 21, 1930.
Cloaks, suits, dresses, shoes, etc. Three Sisters, Inc. 269,411; Apr. 8; Serial No. 290,674; published Jan. 21, 1930.
Hats, Women's. J. Meyer. 269,415; Apr. 8; Serial No. 290,473; published Jan. 21, 1930.
Hosiery. J. L. Hudson Company. 269,480; Apr. 8; Serial No. 279,651; published Apr. 16, 1929.
Shirts. Kaufmann Department Stores, Inc. 269,482; Apr. 8; Serial No. 292,881; published Jan. 21, 1930.
Shirts and blouses, Boys' dress. C. Greenberg. 269,471; Apr. 8; Serial No. 282,551; published Aug. 13, 1929.
Shirts and overalls. W. F. Snelbaker. 269,489; Apr. 8; Serial No. 292,753; published Jan. 21, 1930.
Shoes, slippers, mules, spats, and hose. Wetherby-Kayser Shoe Co. 269,503; Apr. 8; Serial No. 228,730; published June 15, 1926.
Suits, topcoats, vests, etc. Hilton Company. 269,487; Apr. 8; Serial No. 292,805; published Jan. 21, 1930.

CLASS 40

Combs, Rubber. Julius Schmid, Inc. 269,575; Apr. 8.
Cotton and rayon threads. Independent Thread Mills, Incorporated. 269,518; Apr. 8; Serial No. 284,342; published Aug. 13, 1929.

CLASS 42

Handkerchiefs. H. S. Cohen. 269,450; Apr. 8; Serial No. 290,551; published Jan. 28, 1930.

CLASS 44

Apparatus for permanently waving hair and for accessories for use with such apparatus. Universal Permanent Wave Machine Co. 269,574; Apr. 8.
Bottle holders for nursing bottles. P. E. Allen. 269,392; Apr. 8; Serial No. 290,731; published Jan. 21, 1930.
Casting gold for dental use. Spyco Smelting and Refining Co. 269,522; Apr. 8; Serial No. 293,386; published Jan. 21, 1930.
Hair-waving machines and hair curlers, Permanent-. R. M. Dorsett. 269,573; Apr. 8.
Dentures. J. V. Amenta. 269,559; Apr. 8; Serial No. 292,350; published Jan. 28, 1930.
Lamps, Therapeutic. United Products Company. 269,396; Apr. 8; Serial No. 288,149; published Jan. 28, 1930.
Pads, Removable sanitary. Downee Products Company. 269,517; Apr. 8; Serial No. 284,558; published Jan. 28, 1930.
Tweezers. Kurlash Company Inc. 269,468; Apr. 8; Serial No. 283,505; published Jan. 21, 1930.

CLASS 45

Beverages. Paul Schreiber and Son. 269,432; Apr. 8; Serial No. 292,908; published Jan. 28, 1930.
Beverages and sirups, extracts, etc., for making the same. Peoples Bottling Company Inc. 269,531; Apr. 8; Serial No. 293,378; published Jan. 28, 1930.
Cordials, Maltless. Belmont Products Company. 269,453; Apr. 8; Serial No. 293,569; published Feb. 4, 1930.
Ginger ale. Higrade Bottling Company. 269,437; Apr. 8; Serial No. 292,667; published Jan. 28, 1930.

CLASS 46

Apple butter, bacon, canned berries, etc. George W. Simmons Corporation. 269,472; Apr. 8; Serial No. 282,145; published Jan. 28, 1930.
Bakery products. Lowenberg Bakery. 269,548; Apr. 8; Serial No. 286,184; published Oct. 29, 1929.
Candies. Kemp Sisters. 269,416; Apr. 8; Serial No. 290,314; published Jan. 28, 1930.
Candies. H. E. Richmond. 269,521; Apr. 8; Serial No. 293,109; published Jan. 28, 1930.
Candy. E. J. Brach & Sons. 269,426; Apr. 8; Serial No. 285,704; published July 30, 1929.
Candy. Reid, Murdoch & Co. 269,427; Apr. 8; Serial No. 285,172; published Jan. 28, 1930.
Canned corn. Northland Canning Company. 269,401; Apr. 8; Serial No. 292,822; published Jan. 28, 1930.

Canned fish. S. Isenberg, Inc. 269,539; Apr. 8; Serial No. 293,532; published Jan. 28, 1930.
Canned fish, shellfish, preserved fish, etc. Compania de Productos Marinos, Sociedad Anonima. 269,512; Apr. 8; Serial No. 272,237; published Dec. 10, 1929.
Canned fruits and vegetables, olives, jams, etc. R. M. Buchanan. 269,475; Apr. 8; Serial No. 280,689; published Jan. 28, 1930.
Canned fruits, vegetables. Biona Products Co. Inc. 269,538; Apr. 8; Serial No. 293,792; published Jan. 28, 1930.
Canned fruits, vegetables, fish, etc. Vincennes Packing Corporation. 269,403; Apr. 8; Serial No. 292,766; published Jan. 28, 1930.
Canned pineapple and pineapple juice. Hawaiian Canneries Company. 269,417; Apr. 8; Serial No. 290,252; published Jan. 21, 1930.
Canned pineapple and pineapple juice. Hawaiian Canneries Company. 269,420; Apr. 8; Serial No. 288,804; published Jan. 21, 1930.
Canned pineapple and pineapple juice. Hawaiian Canneries Company. 269,421; Apr. 8; Serial No. 288,802; published Jan. 21, 1930.
Canned pineapple and pineapple juice. Hawaiian Canneries Company. 269,422; Apr. 8; Serial No. 288,800; published Jan. 21, 1930.
Canned raw oysters. H. W. Sockwell & Sons. 269,409; Apr. 8; Serial No. 291,362; published Jan. 28, 1930.
Canned tomatoes. Portales Canning Co. 269,560; Apr. 8.
Coffee. L. Pimpao & Co. 269,414; Apr. 8; Serial No. 290,521; published Jan. 28, 1930.
Coffee, canned fruits, canned vegetables, etc. Janszen Company. 269,500; Apr. 8; Serial No. 265,844; published Oct. 16, 1928.
Confectionery. H. S. Vinson. 269,399; Apr. 8; Serial No. 292,915; published Jan. 28, 1930.
Cream, Imitation whipped. S. M. Bates. 269,413; Apr. 8; Serial No. 290,538; published Jan. 21, 1930.
Creams and fondants, flour mixtures. J. W. Allen & Co. 269,405; Apr. 8; Serial No. 292,702; published Jan. 21, 1930.
Dressing, Mustard and mayonnaise. J. Dalphond. 269,511; Apr. 8; Serial No. 273,742; published Jan. 21, 1930.
Extract, Flavoring. R. Pichel. 269,429; Apr. 8; Serial No. 292,460; published Jan. 28, 1930.
Extract, Flavoring. R. Pichel. 269,430; Apr. 8; Serial No. 292,418; published Jan. 28, 1930.
Feed, Stock. Josey-Miller Company. 269,576; Apr. 8.
Fruits, citrus fruits, cantaloupes, etc., Fresh deciduous. Sgobel & Day, Inc. 269,431; Apr. 8; Serial No. 292,291; published Jan. 28, 1930.
Grapes. L. Rusconi. 269,572; Apr. 8.
Grapes and citrus fruits, Fresh. M. N. Jensen. 269,412; Apr. 8; Serial No. 290,467; published Jan. 21, 1930.
Herrings preserved in brine. Alexander Wood & Son. 269,423; Apr. 8; Serial No. 287,516; published Jan. 28, 1930.
Ice cream and ice-cream suckers. Good Humor Corporation of America. 269,425; Apr. 8; Serial No. 286,986; published Jan. 28, 1930.
Ice-cream cones. Maryland Baking Company. 269,476; Apr. 8; Serial No. 280,081; published Jan. 28, 1930.
Ice-cream cones. Maryland Baking Company. 269,477; Apr. 8; Serial No. 280,079; published Jan. 28, 1930.
Ice-cream cones. Maryland Baking Company. 269,478; Apr. 8; Serial No. 280,078; published Jan. 28, 1930.
Milk, Spray powder. Twin City Milk Producers Association. 269,540; Apr. 8; Serial No. 293,357; published Jan. 28, 1930.
Molasses. American Molasses Co. of North Carolina. 269,561; Apr. 8.
Noodles, macaroni, and spaghetti. Pfaffman Egg Noodle Company. 269,404; Apr. 8; Serial No. 292,748; published Jan. 21, 1930.
Nuts and confections. G. M. Meath. 269,424; Apr. 8; Serial No. 287,702; published Jan. 28, 1930.
Olive oil. Coen Companies Inc. 269,400; Apr. 8; Serial No. 292,866; published Jan. 21, 1930.
Potatoes. J. L. Robinson. 269,407; Apr. 8; Serial No. 292,289; published Jan. 28, 1930.
Sausage and scrapple. P. M. Adams. 269,408; Apr. 8; Serial No. 292,086; published Jan. 28, 1930.
Syrup and West India molasses, Compound of corn. Mangels-Herold Company. 269,402; Apr. 8; Serial No. 292,816; published Jan. 21, 1930.
Syrup, Malt. L. Siunecko, Jr. 269,406; Apr. 8; Serial No. 292,686; published Jan. 21, 1930.
Syrup, Malt. Bachrach-Feld Co. 269,419; Apr. 8; Serial No. 289,493; published Jan. 21, 1930.
Syrup, Malt. F. L. Brzoska. 269,507; Apr. 8; Serial No. 276,064; published Jan. 28, 1930.
Syrup, Table. E. A. Tyler. 269,428; Apr. 8; Serial No. 292,560; published Jan. 28, 1930.
Tomato catsup and canned corn, peas, beans, and tomatoes. Charles E. Meyer & Co. 269,516; Apr. 8; Serial No. 284,660; published Aug. 20, 1929.
Vegetables, Fresh. Boon Caswell & Tindel. 269,418; Apr. 8; Serial No. 289,569; published Jan. 28, 1930.

CLASS 50

Display boards, Portable advertising. E. Davidson Company. 269,568; Apr. 8.
Drapes, draperies, table covers, etc. Para Rubber Co. 269,470; Apr. 8; Serial No. 282,506; published Jan. 28, 1930.
Fabrics, Rubberized. E. I. du Pont de Nemours and Company. 269,494; Apr. 8; Serial No. 292,190; published Jan. 28, 1930.

ALPHABETICAL LIST OF LABELS

Air Mail. For Candy. Green Bros. Co. 37,320; Apr. 8.
Burton's Finer Lighter Weight. For Irish Poplin. Burton Brothers & Co. Inc. 37,315; Apr. 8.
Burton's Improved Standard Weight. For Irish Poplin. Burton Brothers & Co. Inc. 37,314; Apr. 8.
Do 644—Butter. For Butter. W. Doane. 37,317; Apr. 8.
Do 645—Butter. For Butter. W. Doane. 37,316; Apr. 8.
Do 649—Butter. For Butter. W. Doane. 37,318; Apr. 8.
Farm King. For Cut Green Beans. Anthony Wholesale Grocery Company. 37,312; Apr. 8.
Kampfs Herbal Tonic. For a Herbal Tonic. W. H. Kampfmueller. 37,321; Apr. 8.
Lemo-Rins. For Shampoo Treatment. Nassour Bros. 37,324; Apr. 8.
Medal of Honor. For Cigars. Medal of Honor Cigar Co. 37,323; Apr. 8.
Ointment No. 29 Nesrin. For Medicinal Preparation. Drug Products Co. Inc. 37,319; Apr. 8.
Orine for the Mouth. For Liquid Mouth Preparation. Dr. M. G. Bernheim. 37,313; Apr. 8.
Peroide Powdered Soap. For Powdered Soaps. Peck's Products Co. 37,325; Apr. 8.
Protein S. M. A. For Food Product. For Infants. Laboratory Products Company. 37,322; Apr. 8.
Radio. For Soap. E & G Soap Co. 37,326; Apr. 8.
Utah Sweetheart Celery. For Celery. Salt Lake County Celery Growers' Association. 37,327; Apr. 8.
Vosine. For a Mouth Wash and Gargle. Sampson & Burnham Company. 37,328; Apr. 8.

ALPHABETICAL LIST OF PRINTS

Fancy Veneers. For Veneers. Russell Fortune, Incorporated. 12,470; Apr. 8.
French Maid. Vacuum Packed Coffee. For Coffee. French Maid Cocolat Company. 12,472; Apr. 8.
Jade, Old as the Hills and Green as the Hills, was the Lucky Stone of the Ancients . . . For Jewelry and Silverware. Black, Starr & Frost-Gorham, Inc. 12,469; Apr. 8.
Omega. For Watches. J. R. Wood & Sons. 12,475; Apr. 8.
Royal Hawaiian Koa. For Veneers. Russell Fortune, Incorporated. 12,471; Apr. 8.
So Good in Themselves . . . So Attractive When Served This New Way. For Baked Beans. H. J. Heinz Company. 12,473; Apr. 8.
Style Twins. For Hats. Truly Warner Co. Inc. 12,474; Apr. 8.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Champion, Albert, assignor.)
Abbe, Edward J., assignor to The Elwell Parker Electric Company, Cleveland, Ohio. Industrial truck. 1,753,731; Apr. 8.
Abbey-Scherer Company, The. (See Scherer, John R., assignor.)
Aber, John C., Butler, Pa. Audiphone. 1,753,817; Apr. 8.
Ackerman, George W., New York, N. Y. Grille. Des. 80,872; Apr. 8.
Ackerman, William K., Detroit, Mich. Liquid extractor. 1,753,732; Apr. 8.
Adams, Industries, Inc. (See Jacques, Raynaldo P., assignor.)
Adams, Walter S., Philadelphia, Pa., and E. Slingluff, sr., Cleveland Heights, Ohio, assignors to The J. G. Brill Company, Philadelphia, Pa. High-speed articulated car. 1,754,137; Apr. 8.
Aerograph Company Limited, The. (See Burdick, Charles L., assignor.)
Agee, George M., Owensboro, Ky. Control valve. 1,754,138; Apr. 8.
Agfa Ansco Corporation. (See Wendt, Bruno, assignor.)
Ahlm, Charles E. F., Cleveland, and G. M. Soule, South Euclid, assignors to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,753,398; Apr. 8.
Aircraft Development Corporation. (See Betancourt, Gilbert, assignor.)
Aites, John F. (See Quinn, T., and Aites.)
Aktiebolaget Nordiska Armaturfabrikerna. (See Weibull, Ernst H. W., assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Baumann, A., and Meyer, assignors.)
Alden, George R. (See Skentelbery, C., and Alden.)
Alemite Corporation. (See Garbarino, Americo F., assignor.)
Alemite Corporation. (See Zerk, Oscar U., assignor.)
Alessi, Frank, assignor to V. Nava, Brooklyn, N. Y. Combined airplane and thermometer. Des. 80,878; Apr. 8.
Allen, John M., Toronto, Ontario, Canada, assignor to Scott & Williams, Incorporated, New York, N. Y. Hosiery. 1,754,185; Apr. 8.
Altice, George F., and W. L. Young, South Bend, Ind., assignors, by mesne assignments, to Bendix Service Corporation, Chicago, Ill. Adjusting tool. 1,753,545; Apr. 8.
Altmar Steel Products Company. (See Paltrowitz, Harry, assignor.)
Ambrette, Conrad, Brooklyn, N. Y. Folding machine for alimentary pastes. 1,753,733; Apr. 8.
American Air Filter Company. (See Goodloe, Alfred M., assignor.)
American Cable Company. (See Luckey, George P., assignor.)
American Can Company. (See Butler, William F., assignor.)
American Chain Company. (See Pitschner, Karl, assignor.)
American Cyanamid Company. (See Cooper, Kenneth F., assignor.)
American La France and Foamite Corporation. (See Witter, Willis D., assignor.)
American Laundry Machinery Company, The. (See Brockett, Bluford W., assignor.)
American Steel Foundries. (See Whitney, Loren L., assignor.)
American Telephone and Telegraph Company. (See Best, Fred H., assignor.)
American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
American Telephone and Telegraph Company. (See Reed, T. C., and Odell, assignors.)
American Telephone and Telegraph Company. (See Thorp, Vaughn P., assignor.)
American Throttle Company. (See McKee, Neal T., assignor.)
American Type Founders Company. (See Buchanan, W. C., and Tourjee, assignors.)
Amrad Corporation, The. (See Woodhull, Samuel T., assignor.)
Anaconda Sales Company. (See Robinson, Thomas, assignor.)
Anchor Cap & Closure Corporation. (See Podel, Abraham, assignor.)
Anders, Otto, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,753,279; Apr. 8.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Charles W., Milan, Ohio. Steering range for automobiles. 1,753,194; Apr. 8.
Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Support. 1,754,006; Apr. 8.
Anderson, Otto A., Chicago, Ill., assignor to Zangerle & Peterson Company. Davenport or like article. Des. 80,874; Apr. 8.
Andresen, Adolph C., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Metal-working process and apparatus. 1,753,677; Apr. 8.
Andrew, Frederick W., Andalusia, and W. Hemingway, jr., Philadelphia, Pa., assignors to The Electrolock Manufacturing Company, Vicksburg, Miss. Ignition-switch lock. 1,753,734; Apr. 8.
Andrews, Frank M., et al. (See Funk, William G., assignor.)
Andrews, Frank W., Fort Wayne, Ind. Automatic electric heating apparatus. 1,753,190; Apr. 8.
Arjon Chemical Co. (See John, Robert, assignor.)
Armstrong Cork Company. (See Holt, Daniel S., assignor.)
Armstrong, Thomas L. B., Poughkeepsie, N. Y. Combination rule gauge. 1,753,191; Apr. 8.
Arnold, Ernest H., Cleveland, Ohio. Metal-wheel manufacture. 1,753,306; Apr. 8.
Arnold, Ernest H., Cleveland, Ohio. Metal spoke and its manufacture. 1,753,307; Apr. 8.
Arntzen, Cloyd H., Canton, Mo. End gate. 1,753,637; Apr. 8.
Art Fixtures, Inc. (See Hoffmann, Otto, assignor.)
Arthur, James L., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Switch control. 1,753,918; Apr. 8.
Asbeck, Gustav, Dusseldorf-Rath, Germany. Rolling mill. 1,753,767; Apr. 8.
Asbridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England. Grinding machinery. 1,754,139; Apr. 8.
Asbridge, Harry H., Ashton-on-Mersey, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England. Grinding or abrading machine. 1,754,140; Apr. 8.
Asten, Eduard v., Eupen, Belgium, and H. N. Hill, Philadelphia, Pa., assignors to Von Asten & Cie., Societe en Commandite, Eupen, Belgium. Fabric for technical purposes. 1,753,845; Apr. 8.
Athey, Isaac H., Chicago, Ill. Vehicle wheel. 1,753,785; Apr. 8.
Atkinson, Elijah B., Oakley, Kans. Lid or cover fastener for milk cans. 1,754,074; Apr. 8.
Atlanta Harness & Reed Manufacturing Company. (See Harris, A. W., Suchke, and King, assignors.)
Augstein, S., & Co. (See Egerer, August, assignor.)
Automatic Electric Inc. (See Wicks, John, assignor.)
Automatic Washer Company. (See Nelson, John, assignor.)
Automotive Patent Holding Company. (See Ahlm, C. E. F., and Soule, assignors.)
Avery, W. & T., Limited. (See Sykes, C. M., and Binns, assignors.)
Axtell, Fred W., Fort Worth, Tex. Making couplings for sucker rods and the like. 1,753,638; Apr. 8.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Bache, Ernest W., and J. Grice, assignors to George Salter and Company Limited, West Bromwich, England. Speed-controlling means for typewriter carriages. 1,753,195; Apr. 8.
Baczewski, Scepan. (See Piekos, Tadeusz, assignor.)
Badger, Arthur C., Newton, Mass. Impervious compressed-fluid container. 1,753,259; Apr. 8.
Badgley, Ollie V., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Soldering machine. 1,753,639; Apr. 8.
Baeuerle & Morris, Inc. (See Dorfner, Anton L., assignor.)
Baillie, Jesse W., Newark, Ohio. Nonskid brake. 1,753,588; Apr. 8.
Baker-Raulang Company, The. (See Remde, Edward H., assignor.)
Baker, Russell W., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Armature-conveying apparatus. 1,753,640; Apr. 8.
Baldwin, George D., New York, N. Y. Industrial railway track. 1,753,327; Apr. 8.
Baldwin, Nathaniel, East Mill Creek, Utah. Acoustic diaphragm and loud-speaker combination. 1,753,979; Apr. 8.
Ball, Edmund B. (See Hurst, J. E., and Ball.)
Banks, Robert T., Spokane, Wash., assignor to Sullivan Machinery Company. Feeding mechanism. 1,754,159; Apr. 8.

Banning, Ephraim. (See Edelman, Philip B., assignor.)
Bannister, Allan S., assignor to Revere Rubber Company, Providence, R. I. Shoe sole. Des. 80,875; Apr. 8.
Bannister, Allan S., assignor to Revere Rubber Company, Providence, R. I. Shoe sole. 80,876; Apr. 8.
Barber-Colman Company. (See Colman, Howard D., assignor.)
Barber-Greene Company. (See Barber, Harry H., assignor.)
Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Automatic measuring hopper. 1,753,546; Apr. 8.
Bardwell, Harold F., assignor to Electromatic Typewriters, Inc., Rochester, N. Y. Typewriting machine. 1,753,495; Apr. 8.
Bares, Rudolph. (See Wood, A. C., and Bares.)
Bargeboer, Adolf, The Hague, Netherlands. Regulating device. 1,753,678; Apr. 8.
Barnes, Lew, Chicago, Ill. Knockdown fight ring. 1,753,828; Apr. 8.
Barrett, Charles A., Buffalo, N. Y. Conveyer for heat-treating furnaces. 1,753,679; Apr. 8.
Barrymore Concrete Mixer Corporation. (See Daddisman, Reginald A., assignor.)
Barstow, Edwin O., and A. C. White, assignors to The Dow Chemical Company, Midland, Mich. Bag manufacture. 1,753,281; Apr. 8.
Barton, Edward O. (See Novinsky, R. A., and Barton.)
Barton, Francis M., assignor to G. Thompson, Chicago, Ill. Concrete floor construction. 1,753,496; Apr. 8.
Bascombe, Frank J. (See Reid, W. L., and Bascombe.)
Bassick Company, The. (See Herold, Walter F., assignor.)
Bastian-Morley Company. (See Lonergan, Simon J., assignor.)
Bates, Charles F. W., Cleveland Heights, Ohio. Radiotube. 1,753,260; Apr. 8.
Batie, Joseph E., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Apparatus for expanding cup-shaped members. 1,753,630; Apr. 8.
Bauman, Harry A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Bathing cap. Des. 80,930; Apr. 8.
Baumann, Adolf, Baden, and A. Meyer, Kusnacht, near Zurich, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Compressor apparatus. 1,753,280; Apr. 8.
Baumann, Helene H., Highland Park, Calif. Nursing-bottle holder. 1,753,875; Apr. 8.
Baumgartner, Emil, Nanuet, N. Y. Utilizing the waste space in hothouses. 1,753,980; Apr. 8.
Bay State Fishing Company. (See Gallison, Ernest A., assignor.)
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for applying foxing to shoes. 1,753,497; Apr. 8.
Beach, H. D., Company, The. (See Gibson, Francis W., assignor.)
Beardsley, Robert, Chicago, Ill. Lamp shade. 1,753,981; Apr. 8.
Bechik, Michael, Memphis, Tenn. Mattress. 1,753,359; Apr. 8.
Becker, Ernst, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Internal-combustion engine. 1,753,196; Apr. 8.
Becker, Hans, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Manufacturing drying varnishes. 1,754,186; Apr. 8.
Beckman, John W., Oakland, Calif. Breaking emulsions. 1,753,641; Apr. 8.
Beckman, John W., Oakland, Calif. Transforming organic acids into ketones. 1,753,642; Apr. 8.
Beckman, John W., Oakland, Calif. Processing cereal grains. 1,753,643; Apr. 8.
Beckwith, Harry H. (See Jennings, Melvin O., assignor.)
Beddard, William H., Small Heath, England. Coin-in-the-slot machine. 1,753,197; Apr. 8.
Bedford, Alda V., Schenectady, N. Y., assignor to General Electric Company. Belt or strip driving arrangement. 1,754,187; Apr. 8.
Bedo, Joseph, assignor to Permachrome Process Corporation, Cleveland, Ohio. Electroplating bath. 1,754,075; Apr. 8.
Beebe, Claude S., Salt Lake City, Utah. Toy fighting plane. 1,753,681; Apr. 8.
Beech-Nut Packing Company. (See Washburn, Walter B. C., assignor.)
Beghetti, Peter, San Francisco, Calif. Wire-twisting device. Re17,636; Apr. 8.
Bell, John E., Brooklyn, assignor to Power Specialty Company, New York, N. Y. Heating apparatus. 1,753,192; Apr. 8.
Bell, John E., deceased, Brooklyn, N. Y., L. R. Bell executrix. Waste-heat boiler. 1,753,589; Apr. 8.
Bell, Lola R., executrix. (See Bell, John E.)
Bell Telephone Laboratories, Incorporated. (See Black, Harold S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bragg, Herbert E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Clokey, Allison A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Curley, Thomas V., assignor.)
Bell Telephone Laboratories, Incorporated. (See Gilbert, John J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Given, Frederick J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hague, A. E., and Peterson, assignors.)
Bell Telephone Laboratories, Incorporated. (See Knoop, William A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Newsom, James B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Steinberg, John C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stokely, Ray L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Whittle, Horace, assignor.)
Bellay, Julien, Brussels, Belgium. Gas and steam producer generator. 1,753,847; Apr. 8.
Benckiser, Joh. A., Chemische Fabrik. (See Draisbach, Fritz, assignor.)
Bendix Brake Company. (See Clapp, Stuart H., assignor.)
Bendix Brake Company. (See La Brie, Ludger E., assignor.)
Bendix Service Corporation. (See Altice, G. F., and Young, assignors.)
Benedict, Frederic K., assignor to Covel-Hanchett Co., Big Rapids, Mich. Workholder for bar-grinding machines. 1,753,590; Apr. 8.
Benintende, Louis, Woodbridge, N. J. Stepladder. 1,754,194; Apr. 8.
Benjamin, E. V., Co., The. (See Orndoff, Herbert W., assignor.)
Bennett, Incorporated. (See Brown, George A., assignor.)
Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Condenser. 1,753,193; Apr. 8.
Benning, Cobb, et al. (See Blackwell, Sanford J., assignor.)
Bentz, Frank J., et al. (See Wheeler, H. A., Bentz, and Mason.)
Bentz, L. E., et al. (See Wheeler, H. A., Bentz, and Mason, assignors.)
Berger, George R., et al. (See Levings, Sherburne D., assignor.)
Berger, Samuel I., Newark, N. J. Traffic-simulating toy. 1,753,282; Apr. 8.
Bertsche, Ralph, jr., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine starter. 1,753,591; Apr. 8.
Best, Fred H., Westfield, N. J., assignor to American Telephone and Telegraph Company. Meter. 1,753,230; Apr. 8.
Best, Fred H., Westfield, N. J., assignor to American Telephone and Telegraph Company. Meter for transmission testing. 1,753,231; Apr. 8.
Betancourt, Gilbert, assignor to Aircraft Development Corporation. Detroit, Mich. Airship terminal. 1,753,592; Apr. 8.
Bethlehem Steel Company. (See Kennedy, John J., assignor.)
Bettes, George W., Sparta, Mich. Road marker. 1,753,593; Apr. 8.
Bigbee, Carson L., Los Angeles, and J. Couch, San Mateo, Calif. Automobile headlight. 1,754,141; Apr. 8.
Bigelow, Clare G. (See Linn, C. W., Bigelow, and Raiche.)
Billig, Kurt. (See Mayer, F., Billig, Horst, and Schirmacher.)
Binns, Arthur. (See Sykes, C. M., and Binns.)
Binns, George W., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Truing mechanism. 1,753,682; Apr. 8.
Bjorklund, Axel W. (See Krohn, E., and Liliquist, assignors.)
Black, Harold S., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric signaling system. 1,753,829; Apr. 8.
Blackburn, Charles A., Washougal, assignor to Keystone Manufacturing Co., Inc., Chehalis, Wash. Lawn mower. 1,754,076; Apr. 8.
Blackburn, Robert E., Los Angeles Calif. Wire-screen frame and making the same. 1,753,683; Apr. 8.
Black Rock Manufacturing Company. (See Nicholas, William, assignor.)
Blackwell, Sanford J., assignor of one-fourth to H. W. McLarty, one-fifth to C. Benning, and eleven-twentieths to Ransom and Company, Inc., Atlanta, Ga. Bottle. 1,753,736; Apr. 8.
Blair, James C., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Method and apparatus for forming sheet glass. 1,753,768; Apr. 8.
Blair, William R., Washington, D. C. Ocean-going water craft. 1,753,399; Apr. 8.
Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Two-way valve. 1,753,684; Apr. 8.
Blount, William H. (See Sleeper, F. H., and Blount.)
Blume, George F., Philadelphia, Pa. Roller bearing. 1,754,077; Apr. 8.
Boda, Joseph E., Moline, Ill., assignor by mesne assignments, to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Disk harrow. 1,753,198; Apr. 8.

Bodenstein, Paul, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Discharge means for tube or ball mills. 1,753,685; Apr. 8.
Bodge, Horace A., White Plains, N. Y. and J. C. Emley, Melrose Park, Pa. Bake oven. 1,753,914; Apr. 8.
Bogardus, Arthur G., New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill. Process and apparatus for treating petroleum oil. 1,753,769; Apr. 8.
Bohm, Stephen F., Cicero, Ill. Anchor and reel therefor. 1,753,737; Apr. 8.
Boldridge, Austin G., Houston, Tex. Aircraft. 1,754,007; Apr. 8.
Bond, Jayson K., assignor to Federal Asbestos & Cork Insulation Co., Milwaukee, Wis. Floral case. 1,753,594; Apr. 8.
Bonus, George Y., Chicago, Ill., assignor to Erie City Iron Works, Erie, Pa. Boiler. 1,753,687; Apr. 8.
Borgeson, Charles A., assignor of twenty-four and one-half per cent to G. W. Mitchell and twenty-four and one-half per cent to A. J. Lindersmith, San Francisco, Calif. Basement circulator. 1,753,686; Apr. 8.
Bornand, Emilien, and H. A. Schlaepfer, Geneva, Switzerland. Electric furnace. 1,754,142; Apr. 8.
Borsi, Frank, Washington, D. C., assignor to C. R. Summa, Waterbury, Conn. Oil can. 1,754,078; Apr. 8.
Boscardin, John M., Canaan, Conn. Tire mender. 1,753,688; Apr. 8.
Bossard Products Company. (See Bossard, Theodore, assignor.)
Bossard, Theodore, Salt Lake City, Utah, assignor to Bossard Products Company, Inc. Fueling system. 1,753,199; Apr. 8.
Bossart, Paul N., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,753,689; Apr. 8.
Bossart, Paul N., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,753,982; Apr. 8.
Bottle Cap Patents Company. (See Swift, George W., jr., assignor.)
Bourn, Stephen W., Providence, R. I., assignor to United Shoe Machinery Corporation, Paterson, N. J. Foxing-cementing machine. 1,753,498; Apr. 8.
Bowen, William S., Westfield, N. J. Spray drying apparatus. 1,753,915; Apr. 8.
Bower, Sigmund, Brooklyn, N. Y. Machine for applying reenforcements to clothespins. 1,753,916; Apr. 8.
Bowman, James H., Bridgeport, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Corner miter for screeds. 1,753,595; Apr. 8.
Bowman, James H., Bridgeport, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va. Corner miter for base screeds. 1,753,596; Apr. 8.
Boyd, Paul F., Chicago, Ill. Retouching device. 1,753,876; Apr. 8.
Boyer, Charles A., Winona Lake, Ind. Casting reel. 1,753,738; Apr. 8.
Bradley, Linn, Montclair, N. J., and E. P. McKeefe, assignors to Bradley-McKeefe Corporation, New York, N. Y. Treatment of residual liquors. 1,754,207; Apr. 8.
Bradley, Linn, Montclair, N. J., and E. P. McKeefe, Plattsburgh, assignors to Bradley-McKeefe Corporation, New York, N. Y. Production of cooking liquor which contains sodium hydroxide. 1,754,208; Apr. 8.
Bradley-McKeefe Corporation. (See Bradley, L., and McKeefe, assignors.)
Brady, John D., assignor to Brady Process Company, El Dorado, Ark. Apparatus for breaking up petroleum emulsions. 1,754,079; Apr. 8.
Brady Process Company. (See Brady, John D., assignor.)
Bragg, Caleb S., Palm Beach, Fla., and V. W. Kliesrath, Port Washington, assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y. Power actuator for brake mechanism of automotive vehicles. 1,753,283; Apr. 8.
Bragg, Herbert E., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Metering device. 1,753,330; Apr. 8.
Bragg-Kliesrath Corporation. (See Bragg, C. S., and Kliesrath, assignors.)
Branche, Nelson T. (See Stanbery, L. J., and Branche.)
Brand, Edwin J. (See Neuberger, Franklin H., assignor.)
Brand, William P., Muskegon, Mich. Switch. 1,753,846; Apr. 8.
Braun, Ferdinand, et al., executors. (See Mauser, Alfons.)
Braun, William A. (See Johnson-Vea, C. T., and Braun.)
Breitenstein, Albert F., assignor to The Geometric Tool Company, New Haven, Conn. Self-opening die head. 1,753,819; Apr. 8.
Breitenstein, Albert F., assignor to The Geometric Tool Co., New Haven, Conn. Self-opening die head. 1,753,848; Apr. 8.
Brenzinger, Julius, Fairfield, assignor to The Max Ams Chemical Engineering Corporation, Bridgeport, Conn. Pump. 1,753,232; Apr. 8.
Breslin, James J. (See Fischer, S., and Breslin.)
Brett, Henry E., Los Angeles, assignor to J. A. Yerkes, Long Beach, Calif. Valve. 1,753,818; Apr. 8.
Bridges, Ira D., Sanford, N. C., assignor to Draper Corporation, Hopedale, Mass. Loom crank-shaft box-cap bearing. 1,754,195; Apr. 8.
Briggs, Adelbert L., and H. Sauers, Escanaba, Mich. Crank-case heater for motor vehicles and the like. 1,754,080; Apr. 8.
Briggs and Stratton Corporation. (See Jacobi, Edward N., assignor.)
Brill, J. G., Company, The. (See Adams, W. S., and Slingluff, sr., assignors.)
Brill, J. G., Company, The. (See Latshaw, Elmer, assignor.)
Brimm, Daniel J., jr., West Hempstead, assignor to Ireland Aircraft, Inc. Retractable landing gear. 1,753,770; Apr. 8.
Bristol, Wm. H., Talking Picture Corporation. (See Griggs, Henry L., assignor.)
Brockett, Bluford W., Cleveland Heights, assignor The American Laundry Machinery Company, Norwood, Ohio. Garment-pressing machine. 1,753,877; Apr. 8.
Bromwell Wire Goods Company, The. (See Melish, Thomas G., assignor.)
Brown, Carl A., and A. C. Nielsen, East Cleveland, Ohio, assignor to General Electric Company. Machine for cutting glass cane or tubes. 1,754,143; Apr. 8.
Brown, George A., assignor to Bennett, Incorporated, Salem, Mass. Making waterproof paper. 1,753,690; Apr. 8.
Brown, John M., assignor to Crystal Oil Burner Corporation, Irvington, N. J. Liquid-fuel burner. 1,753,360; Apr. 8.
Brown, Vernie R. (See Waters, H. F., and Brown.)
Brown, William A., Philadelphia, Pa. Emergency heater. Re17,637; Apr. 8.
Browne, Vere B., Brackenridge, Pa. Making ductile iron chromium aluminum alloys. 1,754,008; Apr. 8.
Brownlie, James, Dennistoun, Glasgow, and A. Horsley, Thornliebank, Glasgow, Scotland. Collapsible box or case holding electric and other bulbs. 1,754,081; Apr. 8.
Brosek, Stanley, Detroit, Mich., Wall construction. 1,753,320; Apr. 8.
Bruhn, Friedrich W. G., Berlin-Wilmersdorf, Germany. Positive speed gauge. 1,753,547; Apr. 8.
Brundage, Forrest H. (See Umstead, James R., assignor.)
Brutscher, George H., Pittsburgh, Pa. Valve guide. 1,754,144; Apr. 8.
Bryson, Holmes, Groveland, Fla. Pressing installation for freight cars. 1,753,400; Apr. 8.
Bubblestone Company, The. (See Rice, John A., assignor.)
Buchanan, William C., Franklin, Mass., and W. O. Tourjee, Providence, R. I., assignors to American Type Founders Company, Jersey City, N. J. Printing press. 1,753,821; Apr. 8.
Buchet, Conrad R. assignor to National Air-Lub Products Incorporated, Los Angeles, Calif. Grease dispenser. 1,753,849; Apr. 8.
Bucking, Henry J., San Francisco, Calif. Safety apparatus for oil-storage tanks. 1,753,401; Apr. 8.
Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Removing bearings from axles. 1,753,771; Apr. 8.
Buckwalter, Tracy V., assignor to The Timken Roller Bearing Company, Canton, Ohio. Roller-bearing-axle construction. 1,753,772; Apr. 8.
Budd Wheel Company. (See Ragsdale, Earl J. W., assignor.)
Buer, Henry W., et al. (See Drahonovsky, John B., assignor.)
Buer, Hertha, et al. (See Drahonovsky, John B., assignor.)
Burden, Fred E., Moncton, New Brunswick, Canada. Biproximal tooth and interlocking key. 1,753,644; Apr. 8.
Burdick, Charles L., assignor to The Aerograph Company Limited, London, England. Spraying apparatus. 1,754,145; Apr. 8.
Burdick Corporation, The. (See Anderson, Fritz, A., assignor.)
Burger, Walter D., Forest Park, Ill. Automatic tack hammer. 1,753,499; Apr. 8.
Burleigh, James K., Hastings-upon-Hudson, N. Y. Can closure. 1,753,500; Apr. 8.
Burnham, Chester W., assignor to Oneida Community, Limited, Oneida, N. Y. Receptacle for silverawre. 1,753,878; Apr. 8.
Burns, Gertrude, New York, N. Y. Abdominal belt. 1,753,739; Apr. 8.
Burns, Harley E., Columbus, Ohio. Forming lock nuts. 1,753,597; Apr. 8.
Burns, William D., Amenia, N. Y. Roller bearing. 1,753,691; Apr. 8.
Burton, Frank C., assignor to Grisby-Grunow Company, Chicago, Ill. Radiocabinet. Des. 80,931; Apr. 8.
Butler, William F., Hillside, N. J., assignor to American Can Company, New York, N. Y. Salt-filling machine. 1,753,548; Apr. 8.
Butterworth, H. W., & Sons Company. (See France, Thomas W., assignor.)
Buttress, George A., assignor to F. and B. Holding Company, Los Angeles, Calif. Sheet lath. 1,753,598; Apr. 8.
Byrnes, Clarence P., trustee. (See James, Joseph H., assignor.)
C-S Engineering Company. (See Schellens, E. L., and Coffin, assignors.)
Cage, John M., Los Angeles, Calif., assignor, by mesne assignments, to Dehydrators Incorporated. Dehydration of oil and water emulsions. 1,754,009; Apr. 8.
Calvino, Giovanni, Milan, Italy. Coffee filter. 1,754,146; Apr. 8.

Cambron, Adrien, Tottenville, assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y. Accelerator for the vulcanization of rubber. 1,754,010; Apr. 8.

Camel Company. (See Heinen, F. C., and Darrow, assignors.)

Camfield, William H., Newark, assignor of one-half to W. Prior, East Orange, and one-half to W. Prior, jr., South Orange, N. J. Machine for cutting bias strips. 1,753,645; Apr. 8.

Canada Gypsum and Alabastine, Limited. (See Thomson, George M., assignor.)

Capper, Arthur M., assignor to Duquesne Steel Foundry Company, Pittsburgh, Pa. Annealing box. 1,753,261; Apr. 8.

Carey, Philip, Manufacturing Company, The. See Fischer, Albert C., assignor.)

Carlson, Andrew W., Spokane, Wash. Heel. 1,753,692; Apr. 8.

Carpenter, Russell H., Madison, Wis. Food strainer. 1,753,693; Apr. 8.

Carr, Fred S., Newton, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Fastener. 1,754,209; Apr. 8.

Carr, Moses F., Lexington, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener. 1,754,210; Apr. 8.

Carter, Clarence W., and C. P. Strite, Minneapolis, Minn. Frying bacon. 1,753,879; Apr. 8.

Case, Arthur F., assignor to The Wellman-Seaver Morgan Company, Cleveland, Ohio. Car-dumper clamp. 1,753,456; Apr. 8.

Cash, A. W., Company. (See Terry, Charles M., assignor.)

Cates, James W., Coffeyville, Kans. Cake-icing machine. 1,753,549; Apr. 8.

Cawthon, John S., Beech Bluff, Tenn. Fire alarm. 1,753,361; Apr. 8.

Central Brass and Fixture Company, The. (See McCloud, Edward H., assignor.)

Central Electric Tool Company. (See Weyandt, Carl S., assignor.)

Central National Bank of Cleveland, trustee. (See Prachar, John, assignor.)

Centrifix Corporation. (See Schuts, Joseph M., assignor.)

Centrifugal Castings Limited. (See Hurst, J. E., and Ball, assignors.)

Certain-teed Products Corporation. (See Speer, Alexander S., assignor.)

Chamberlain, Rufus N., et al. (See Levings, Sherburne D., assignor.)

Champion, Albert, assignor to A C Spark Plug Company, Flint, Mich. Chromium-plated worm shaft. 1,753,773; Apr. 8.

Chapin, Philip P., and W. J. Kupec, New York, N. Y. Automatic egg boiler. 1,753,740; Apr. 8.

Chase, Philip H., Bala, Pa. Mast arm. 1,754,082; Apr. 8.

Cheney, Moses E., Bayport, assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Electric measuring instrument. 1,753,402; Apr. 8.

Cheney, Moses E., La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Electric indicating instrument. 1,753,917; Apr. 8.

Chevrette, Augustin J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle-changing loom. 1,753,233; Apr. 8.

Chicago-Cleveland Car Roofing Company. (See Williams, Theron H., assignor.)

Chicago Pneumatic Tool Company. (See Andresen, Adolph C., assignor.)

Chicago Railway Equipment Company. (See Kadar, Louis, assignor.)

Chicago Railway Equipment Company. (See Told, Arnold H., assignor.)

Christensen, Emil, Portland, Oreg. Socket. 1,753,501; Apr. 8.

Christiansen, William F., Chicago, Ill., assignor to The Zangerle and Peterson Company. Davenport or like article. Des. 80,877; Apr. 8.

Chrysler Corporation. (See Lamborn, Fred J., assignor.)

Chrysler Corporation. (See Skelton, Owen R., assignor.)

Churchill Machine Tool Company Limited, The. (See Asbridge, Harry H., assignor.)

Cincinnati Grinders Incorporated. (See Binns, George W., assignor.)

Clapp, Stuart H., Washington, D. C., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,753,362; Apr. 8.

Clark, Stanley G., et al. (See Funk, William G., assignor.)

Clark, William G., Chicago, Ill. Dust collector. 1,753,502; Apr. 8.

Clarke, Lester J., New York, N. Y. Collapsible sled. 1,754,011; Apr. 8.

Clean-Be-Tween Tooth Brush Company. (See Myers, Robert R., assignor.)

Clemetsen Company, The. (See Vaaler, Jens, assignor.)

Cleveland Graphite Bronze Company, The. (See Klocke, William H., assignor.)

Cleveland Punch & Shear Works Company, The. (See Dobson, John E., assignor.)

Cleveland Punch & Shear Works Company, The. (See Pardee, Robert J., assignor.)

Clokey, Allison A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constant-speed drive. 1,753,331; Apr. 8.

Clum Manufacturing Company. (See Winning, Robert K. assignor.)

Coe Manufacturing Company, The. (See Robinson, Thomas assignor.)

Coffin, Joel S., jr. (See Schellens, E. L., and Coffin.)

Coghlan, Thomas G., Elizabeth, N. J. Special tile for drip ledge. 1,753,332; Apr. 8.

Coghlan, Thomas G., Elizabeth, and E. A. Johnsen, Mountain Lakes, N. J. Furnace and operating the same. 1,753,363; Apr. 8.

Cohen, Louis, Washington, D. C., assignor, by mesne assignments, to Federal Telegraph Company. Radio receiving system. 1,753,306; Apr. 8.

Colavecchio, Benedict, Providence, R. I. Strap fastener. 1,753,918; Apr. 8.

Coldwell, Harry T., Newark, N. J., assignor to Philadelphia Lawn Mower Company Inc., Philadelphia, Pa. Lawn mower. 1,754,188; Apr. 8.

Colegrove, Charles E., Lakewood, assignor to White Sewing Machine Corporation, Cleveland, Ohio. Extension-cord retainer for sewing machines. 1,754,160; Apr. 8.

Colegrove, Charles E., Lakewood, assignor to White Sewing Machine Corporation, Cleveland, Ohio. Extension-cord retainer for sewing machines. 1,754,161; Apr. 8.

Colegrove, Charles E., Lakewood, assignor to White Sewing Machine Corporation, Cleveland, Ohio. Extension-cord retainer for sewing machines. 1,754,162; Apr. 8.

Collins, Eustace R., A. B. Eberhart, and W. A. Gillentine, Fort Worth, Tex. Insect exterminator. 1,754,083; Apr. 8.

Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Ball-warper traverse mechanism. 1,753,503; Apr. 8.

Coloder Company, The. (See Newdick, Norton A., assignor.)

Compagnie des Forges et Acieries de la Marine et d'Homecourt et al. (See de Courseulles, Robert, assignor.)

Cook, Egbert C., Puente, Calif. Turntable. 1,753,550; Apr. 8.

Cook, Willard G., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,753,983; Apr. 8.

Cookson, Wilfred A., Freeport, Me. Mud-guard attachment. 1,754,147; Apr. 8.

Cooper, James H., Chicago, Ill. Cotton picker. 1,753,919; Apr. 8.

Cooper, Kenneth F., Great Neck, assignor to American Cyanamid Company, New York, N. Y. Fumigating compound and producing the same. 1,754,148; Apr. 8.

Cope, Seth A., San Francisco, Calif. Metal riser and nosing for concrete steps. 1,753,234; Apr. 8.

Copeland Products, Inc. (See Litle, Thomas J., jr., assignor.)

Copeland Products, Inc. (See Muffly, Glenn, assignor.)

Corbi, Joseph L., assignor of one-third to V. Galotta, Washington, D. C., and one-third to H. Pizzutiello, Bronx, N. Y. Shirt. 1,753,551; Apr. 8.

Corcoran, Daniel P., Gridley, Calif. Signal device. 1,753,364; Apr. 8.

Corff, Edward V. (See Endsley, L. E., and Corff.)

Cornelius, Richard L., Paso Robles, Calif. Dispensing device. 1,754,084; Apr. 8.

Cornell, Mead, San Francisco, Calif., assignor, by mesne assignments, to Lubrequipment Company. Meter. 1,753,552; Apr. 8.

Corning Glass Works. (See Taylor, William C., assignor.)

Cossey, John C. G. (See Mitchell, J., and Cossey.)

Costello, Henry O., Providence, R. I. Exercising apparatus. 1,753,309; Apr. 8.

Costello, Henry O., Providence, R. I. Exercising ball and support therefor. 1,753,310; Apr. 8.

Couch, John. (See Bigbee, C. L., and Couch.)

Covel-Hanchett Co. (See Benedict, Frederic K., assignor.)

Cowan, Archibald D., assignor to Patent Novelty Company, Fulton, Ill. Toy whistling clown. Des. 80,878; Apr. 8.

Cowles, Irving, Detroit, Mich., assignor to Union Bank of Chicago, trustee, Chicago, Ill. Self-heating device such as soldering irons. 1,753,741; Apr. 8.

Cox, Abram, Company. (See Mott, Abram C., jr., assignor.)

Cox, George C., and H. K. McIntyre, deceased; E. M. McIntyre, executrix, Raleigh, N. C., J. G. McIntyre, New York, N. Y., and M. McIntyre, Cranford, N. J., executors. Furnace for reducing metals. 1,753,822; Apr. 8.

Cox, Harold E. (See Trencham, H., Heath, Hamlyn, and Cox.)

Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)

Creamery Package Mfg. Company, The. (See Scovel, John C., jr., assignor.)

Crickmer, Charles S. (See Wilson, R. A., and Crickmer.)

Croft, Hiram D. (See Perkins, J. L., and Croft.)

Crompton & Knowles Loom Works. (See Chevrette, Augustin J., assignor.)

Cromwell, John C., Columbus, Ohio, assignor, by mesne assignments, to The Testite Company. Roof drain. 1,753,262; Apr. 8.

Cromwell, John C., Columbus, assignor to The Steel Sanitary Company, Alliance, Ohio. Welding apparatus and method of welding. 1,753,263; Apr. 8.

Cromwell, Oliver F. W., Ridgway, Pa. Leather-finishing compound. 1,753,694; Apr. 8.

Cropp, David B., New York, N. Y. Heel for shoes. 1,753,284; Apr. 8.

Cross, A. T., Pencil Co. (See Stowe, Roy C., assignor.)

Cross, Frederick J., and H. H. Schott, assignors to Robeson-Rochester Corporation, Rochester, N. Y. Waffle iron. Des. 80,879; Apr. 8.

Crum, Edward J. (See Loy, W. W., and Crum.)

Crystal Oil Burner Corporation. (See Brown, John M., assignor.)

Cummings, David P., Newton Center, Mass. Welt. 1,753,333; Apr. 8.

Cummings, Earle W., assignor to Watertite Casement Hardware Co., Santa Barbara, Calif. Swinging window and screen mounting. 1,753,504; Apr. 8.

Cummins, John H., Dallas, Tex. Ship. 1,754,149; Apr. 8.

Cunningham, Raymond C., assignor to Hincher Paper Box Co., Seattle, Wash. Box-wrapping device. 1,753,646; Apr. 8.

Curley, Thomas V., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,753,334; Apr. 8.

Curtis, Walter, assignor to The Sun Electrical Company Limited, London, England. Lamp, globe, shade, reflector or like supporting device. 1,753,880; Apr. 8.

Cushman, Joseph W., J. D. Everett, and C. J. Farrell, Vernon, assignors to J. F. Merrick and W. A. Teague, Wichita County, Tex., R. E. L. Saner, said Farrell, and said Everett. Oil separator. 1,753,403; Apr. 8.

Cutler-Hammer, Inc. (See Meuer, George J., assignor.)

Cutler-Hammer, Inc. (See Seeger, Edwin W., assignor.)

Daddisman, Reginald A., assignor to Barrymore Concrete Mixer Corporation, San Francisco, Calif. Portable concrete mixer. 1,753,311; Apr. 8.

Danco, Leon A., Fairfield, Conn., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn. Tag for containers. Des. 80,932; Apr. 8.

D'Ardenne, Walter H., Philadelphia, Pa., assignor to Heintz Manufacturing Company. Sealing door. 1,753,774; Apr. 8.

Darnell, Walter R., Long Beach, Calif. Furniture glide. 1,753,599; Apr. 8.

Darnell, Walter R., Long Beach, Calif. Furniture glide. 1,753,600; Apr. 8.

Darrow, William W. (See Heinen, F. C., and Darrow.)

Davenport, Herman A., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Leveling machine. 1,753,404; Apr. 8.

Davey, George W. (See Waite, F. H., and Davey.)

Davidson & Company, Limited, of Sirocca Engineering Works. (See Whitmore, John, assignor.)

Davis, Alice M. (See Goby, Clifford S., assignor.)

Davis, Elmer A., Detroit, Mich. Screen and hanger therefor. 1,753,264; Apr. 8.

Davis, Elmer W., Newton, Mass., assignor, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y. Index tab for record guides. 1,753,285; Apr. 8.

Daukus, John F., Detroit, Mich. Flywheel. 1,753,365; Apr. 8.

Dayton Scale Company. (See Wood, George R., assignor.)

Deach, Miles F., Oakland, Calif. Adjustable lamp support. 1,753,553; Apr. 8.

Debay, George C., Los Angeles, Calif. Apparatus for molding plastic blocks and the like. 1,753,405; Apr. 8

De Cew, Judson A., Mount Vernon, assignor to Process Engineers, Inc., New York, N. Y. Sizing paper pulp. 1,753,775; Apr. 8.

De Francisci, Joseph, Brooklyn, N. Y. Hydraulic press 1,753,742; Apr. 8.

Dehydrators Incorporated. (See Cage, John H., assignor.)

De Laval Steam Turbine Company. (See Peterson, Arvid, assignor.)

Delaware Chemical Engineering Co. (See du Pont, Francis I., assignor.)

Delco Products Corporation. (See Henning, Mortie, assignor.)

Delco Products Corporation. (See Teeter, Wilford H., assignor.)

Delco-Remy Corporation. (See Arthur, James L., assignor.)

Delco-Remy Corporation. (See Badgley, Ollie V., assignor.)

Delco-Remy Corporation. (See Baker, Russell W., assignor.)

Delco-Remy Corporation. (See Bertsche, Ralph, jr., assignor.)

Delco-Remy Corporation. (See Dewey, Fred G., assignor.)

Delco-Remy Corporation. (See Emmert, Rodger J., assignor.)

Delco-Remy Corporation. (See Fitzsimmons, John T., assignor.)

Delco-Remy Corporation. (See Hartsell, Herman L., assignor.)

Delco-Remy Corporation. (See Lawson, John W., assignor.)

Delco-Remy Corporation. (See Norviel, Harry E., assignor.)

Delco-Remy Corporation. (See Norviel, H. E., and Ecoff, assignors.)

Delco-Remy Corporation. (See Prescott, Frank H., assignor.)

Delco-Remy Corporation. (See Seabury, Ralph L., assignor.)

De Lisle, Harold L., Chicago, Ill. Binder for down-hanging sheets. 1,753,366; Apr. 8.

Delman, Inc. (See Morall, Charles, assignor.)

Deutsche Gold- & Silber- Scheideanstalt vormals Roessler. (See Kochendoerfer, Gerd, assignor.)

Deutsche Gold- und Silber-Scheideanstalt vormals Roessler. (See Stark, Hans, assignor.)

Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft. (See Höhne, Wilhelm, assignor.)

Dever, James, Sioux City, Iowa. Cattle-killing machine. 1,753,851; Apr. 8.

De Vilbiss, Alexander P. (See De Vilbiss, John A., assignor.)

De Vilbiss, John A., St. Louis, Mo., assignor to A. P. De Vilbiss, Burlington, Iowa. Filled concrete block and making the same. 1,753,776; Apr. 8.

Dewey, Fred G., Anderson, Ind., assignor by mesne assignments to Delco-Remy Corporation, Dayton, Ohio. Armature-winding apparatus. 1,753,554; Apr. 8.

Dickens, Howard B., Endicott, N. Y. Leg rest for the drivers of motor cars. 1,753,367; Apr. 8.

Dickinson, Arthur J., Limited. (See Groombridge, Walter H., assignor.)

Dickman, Arthur, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio. Football helmet. Des. 80,880; Apr. 8.

Dillon, James, Mount Vernon, N. Y. Connecter for terminal wires. 1,753,777; Apr. 8.

Dina, Augusto, Jersey City, N. J., assignor to International Projector Corporation, New York, N. Y. Framing-light mechanism. 1,753,647; Apr. 8.

Ditto, Inc. (See Moll, Wilhelm K., assignor.)

Dixon, Walter L., assignor to Reece Folding Machine Company, Boston, Mass. Folding machine. 1,753,648; Apr. 8.

Dobson, John E., assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio. Drawing press. 1,753,695; Apr. 8.

Doherty, James R., Oak Park, Ill. Furnace. 1,753,286; Apr. 8.

Donath, Bruno, Berlin, Germany. Incandescent cathode rectifier for medium voltages. 1,754,012; Apr. 8.

Donnellan, Edward P., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y. Bag holder. 1,753,852; Apr. 8.

Donnellon, John H. (See McArdle, M. W., and Donnellon.)

Dorfner, Anton L., assignor to Baeuerle & Morris, Inc., Philadelphia, Pa. Apparatus for recovering gasoline solvent. 1,753,881; Apr. 8.

Dornier, Claudius, Friedrichshafen-on-the-Bodensee, assignor of one-half to the firm: Dornier Metallbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Metal envelope for aircraft planes. 1,753,823; Apr. 8.

Dornier Metallbauten Gesellschaft mit beschränkter Haftung. (See Dornier, Claudius, assignor.)

Dorsey, Albert, Martins Ferry, Ohio. Picture holder. 1,753,555; Apr. 8.

Doty, Alfred S., Ashland, Ky., and L. T. Richey, Huntington, W. Va. Outlet terminal for fluid-supply pipes. 1,753,853; Apr. 8.

Dover Manufacturing Company. (See Johnson-Vea, C. T., and Braun, assignors.)

Dow Chemical Company, The. (See Barstow, E. O., and White, assignors.)

Dowd, Bernard J., Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Mask for typewriting machines. Des. 80,881; Apr. 8.

Dowling, Jesse T., et al., trustees. (See Mas, George N., assignor.)

Drader, Joseph C., Detroit, Mich. Rack. 1,753,778; Apr. 8.

Drahonovsky, John B., assignor of one-twentieth to M. Ferko, one-twentieth to M. Puncer, one-twentieth to F. Klanchik, one-tenth to H. W. and H. Buer, three one-hundredths to J. and C. Schweitzer, seven one-hundredths to M. A. Goldberg, two one-hundredths to F. Kollenz, three one-hundredths to A. Lep, two one-hundredths to W. Wagner, forty one-hundredths to A. A. Strelzin, one one-hundredth to J. Streichen, and one one-hundredth to P. Kinzfogl, Milwaukee, Wis. Carburetor. 1,753,882; Apr. 8.

Dralsbach, Fritz, assignor to the firm Joh. A. Benckiser, Chemische Fabrik, Ludwigshafen-on-the-Rhine, Germany. Stabilizing bleaching liquors. 1,754,163; Apr. 8.

Drake, John L., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Method and apparatus for drawing sheet glass. 1,753,743; Apr. 8.

Draper, Clare H., assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,754,196; Apr. 8.

Draper, Clare H., assignor to Draper Corporation, Hopedale, Mass. Weft carrier for weft-replenishing looms. 1,754,197; Apr. 8.

Draper Corporation. (See Bridge, Ira D., assignor.)

Draper Corporation. (See Draper, Clare H., assignor.)

Dreisbach, Charles A., New Haven, Conn., assignor to Standard Radial Blast Corporation, New York, N. Y. Scouring chamber for metal-securing machines. 1,753,883; Apr. 8.

Dreyfus, Camille, New York, N. Y. Product from organic derivatives of cellulose. 1,754,164; Apr. 8.

Dry Zero Corporation. (See Lindsay, Harvey B., assignor.)

Du Bois-Reymond, Alard, Plon, near Kiel, and W. Rudolph, assignors to firm Signal Gesellschaft m. b. H., Kiel, Germany. Subaqueous sound-producing device. 1,753,368; Apr. 8.

Du Bois, Virgil L., assignor to Du-Ra Valve Manufacturing Company, Tulsa, Okla. Valve. 1,754,198; Apr. 8.

Duff, Ralph A., Nebraska City, Nebr. Carburetor. 1,753,235; Apr. 8.

Durkin, Gus, et al. (See Timoney, Andrew J., assignor.)

Dunbar, Noel S., New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Radiocabinet or the like. Des. 80,882; Apr. 8.

Duncan, Thomas S. (See Pierson, R. K., and Duncan.)

Duncan, William M., Alton, Ill. Furnace grate. 1,753,369; Apr. 8.

Du Pont, Eleuthere P., Montchanin, Del. Automobile brake mechanism. 1,753,370; Apr. 8.

Du Pont, Francis I., assignor to Delaware Chemical Engineering Co., Wilmington, Del. Steam power plant. 1,753,335; Apr. 8.

Duquesne Steel Foundry Company. (See Capper, Arthur M., assignor.)

Dura Company, The. (See Graff, G., Haskins, and Gunther, assignors.)

Dura Company, The. (See Haskins, Howard B., assignor.)

Du-Ra Valve Manufacturing Company. (See Du Bois, Virgil L., assignor.)

Durdin, Augustus C. jr., Chicago, Ill. Displacement apparatus. 1,753,556; Apr. 8.

Durdin, Augustus C., jr., Chicago, Ill. Vacuum condensation pump. 1,753,557; Apr. 8.

Dushek, Maurice, Chicago, Ill. Confection. Des. 80,883; Apr. 8.

Dutcher, Thomas B., Versailles, Pa. Spring clip for railway signal torpedoes. 1,754,150; Apr. 8.

Dutchess Tool Company. (See Van Houten, Frank H., assignor.)

Dyer, John W., East Orange, N. J. Driving mechanism for turntables of talking machines. 1,753,505; Apr. 8.

Earl, Harley J., R. W. Pew, and J. J. Tjaarda, assignors to General Motors Corporation, Detroit, Mich. Hub for steering wheel. Des. 80,884; Apr. 8.

Earnshaw, David P. (See Holland, W. E., and Earnshaw.)

Eastman Kodak Company. (See Green, Newton B., assignor.)

Eastman Kodak Company. (See Jones, John G., assignor.)

Eastman Kodak Company. (See Riddell, William A., assignor.)

Eaton, George, Cleveland, Ohio, assignor, by mesne assignments, to Pan Electric Manufacturing Corporation. Electric beater. 1,753,601; Apr. 8.

Eberhart, Allen B. (See Collins, E. R., Eberhart, and Gillentine.)

Ebinger, D. A., Sanitary Manufacturing Company, The. (See Ebinger, David H., assignor.)

Ebinger, David H., assignor to The D. A. Ebinger Sanitary Manufacturing Company, Columbus, Ohio. Liquid-cooling system. 1,753,286; Apr. 8.

Eclipse Machine Company. (See Lansing, Raymond P., assignor.)

Ecoff, Vance. (See Norviel, H. E., and Ecoff.)

Edelman, Philip E., assignor to E. Banning, Chicago, Ill. Radio power supply device. 1,753,920; Apr. 8.

Edelman, Philip E., assignor to E. Banning, Chicago, Ill. Radio power supply device. 1,753,921; Apr. 8.

Edison, Thomas A., Incorporated. (See Dunbar, Noel S., assignor.)

Edlich, Paul, Delawanna, N. J. Fabric-rubbing roller. 1,753,201; Apr. 8.

Edwards, Herbert E., Brookline, assignor to T. J. Edwards, Incorporated, Boston, Mass. Marking device. 1,753,884; Apr. 8.

Edwards, T. J., Incorporated. (See Edwards, Herbert E., assignor.)

Edwards, Will, Jacksonville, Ill. Attachment for lawn mowers. 1,753,558; Apr. 8.

Egerer, August, Great Neck, N. Y., assignor to S. Augstein & Co., New York, N. Y. Sweater or article of similar nature. Des. 80,885; Apr. 8.

Eigenbrot, Harry L., San Francisco, Calif. Sadiron. 1,753,559; Apr. 8.

Einfeldt, Ernest E., Davenport, Iowa, assignor to French & Hecht, Incorporated. Wheel structure. 1,753,237; Apr. 8.

Eith, Rudolf, et al., executors. (See Mauser, Alfons.)

Electric Auto Lite Company, The. (See Schwarzmann, W. E., and Rosner, assignors.)

Electric Boat Company. (See Spear, Lawrence Y., assignor.)

Electrolock Manufacturing Company, The. (See Andrew, F. W., and Hemingway, assignors.)

Electromatic Typewriters, Inc. (See Bardwell, Harold F., assignor.)

Electromatic Typewriters, Inc. (See Thompson, Russell G., assignor.)

Electro Metallurgical Comany. (See George, Harry S., assignor.)

Electro Metallurgical Company. (See Plummer, Clayton E., assignor.)

Elko Chemical Company. (See Schudel, George J., assignor.)

Elliott, Frank L., Hildebran, N. C., assignor to Scott & Williams, Inc. New York, N. Y. Circular-knitting machine. 1,754,151; Apr. 8.

Elliott, Harold F., Camden, N. J., assignor to Victor Talking Machine Company. Radiopanel. Des. 80,886; Apr. 8.

Elwell Parker Electric Company, The. (See Abbe, Edward J., assignor.)

Emley, Joseph C. (See Bodge, H. A., and Emley.)

Emmert, Rodger J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Work-handling apparatus. 1,753,500; Apr. 8.

Emmert, Rodger J., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Machine for cutting wire and the insulation thereof. 1,753,561; Apr. 8.

Endicott Johnson Corporation. (See Steed, Leonard L., assignor.)

Endsley, Louis E., and E. V. Corff, assignors to Grip Nut Company, Chicago, Ill. Compressing machine. 1,753,238; Apr. 8.

Eussle, Georg, Constance, assignor to Holsverkohlungs-Industrie Aktiengesellschaft, Constance, Baden, Germany. Activating charcoal. 1,753,984; Apr. 8.

Erbach, Frederick R., assignor to Kelvinator Corporation, Detroit, Mich. Compressor valve. 1,753,922; Apr. 8.

Erie City Iron Works. (See Bonus, George Y., assignor.)

Espe, Werner, Berlin-Charlottenburg, assignor to Siemens Schuckertwerke Gesellschaft mit beschrankter Haftung, Siemensstadt, near Berlin, Germany. Series resistance for electric measuring instruments. 1,754,152; Apr. 8.

Essex Rubber Company. (See Tucker, Cecil Co., assignor.)

Evans Auto Loading Co. Inc., The. (See Seeley, Fay L., assignor.)

Everett, John D. (See Cushman, J. W., Everett, and Farrell.)

F. and B. Holding Company. (See Buttress, George A., assignor.)

Fabian, Paul, Chemnitz, Germany. Lip-protecting holdfast. 1,754,165; Apr. 8.

Failla, Gioacchino, New York, N. Y. Applying radium emanation. 1,753,287; Apr. 8.

Farrell, Clinton J. (See Cushman, J. W., Everett, and Farrell.)

Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Electric measuring instrument. 1,754,085; Apr. 8.

Federal Asbestos & Cork Insulation Co. (See Bond, Jayson K., assignor.)

Federal Telegraph Company. (See Cohen, Louis, assignor.)

Federal Telegraph Company. (See Nicolson, Alexander McL., assignor.)

Federwitz, Theodore A., assignor to Stokes & Smith Company, Philadelphia, Pa. Method of and apparatus for wrapping boxes. 1,753,824; Apr. 8.

Feilcke, Karl, Toledo, Ohio. Hood ledge plate and multiple-compartment hood for automobiles. 1,754,066; Apr. 8.

Felty, Franklin L., deceased, Chicago, Ill., M. M. Felty administratrix. Speedograph. 1,753,928; Apr. 8.

Felty, Maude M., administratrix. (See Felty, Franklin L.)

Fenton, Paul B., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Slide fastener with attached resilient socket. 1,753,696; Apr. 8.

Ferko, Mathew, et al. (See Drahonovsky, John B., assignor.)

Ferngren, Enoch T., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Producing sheet glass. 1,753,779; Apr. 8.

Ferris, John P., assignor to The Oilgear Company, Milwaukee, Wis. Pump. 1,753,562; Apr. 8.

Filler, Henry G., and H. C. Filler, St. Peter, Minn. Railroad tie. 1,753,649; Apr. 8.

Filler, Herbert C. (See Filler, Henry G. and H. C.)

Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,753,406; Apr. 8.

Finney, Harry M. (See Sutton, Frank L., assignor.)

Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Rail filler. 1,753,563; Apr. 8.

Fischer, Anton, Furtwangen, Germany. Electrogalvanic medical apparatus. 1,753,854; Apr. 8.

Fischer, Samuel, and J. J. Breslin, Brooklyn, N. Y. Sign. 1,754,153; Apr. 8.

Fischer, Walter S., assignor to The Willys-Overland Company, Toledo, Ohio. Tool and method for removing generators. 1,753,780; Apr. 8.

Fischer, Walter S., assignor to The Willys-Overland Company, Toledo, Ohio. Sleeve-valve engine and oiling means. 1,754,189; Apr. 8.

Fisher, Joseph, Beacon Falls, Conn. Hinge. 1,754,013; Apr. 8.

Fitz Gerald, Alan S., Schenectady, N. Y., assignor to General Electric Company. Electroresponsive device. 1,754,154; Apr. 8.

Fitzsimmons, John T., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Ignition timer. 1,753,564; Apr. 8.

Flam, Stephen, Tecumseh, Mich. Mold. 1,754,067; Apr. 8.

Flauder, Alfred J., assignor to Weidlich Sterling Spoon Co., Bridgeport Conn. Spoon or analogous article. Des. 80,887; Apr. 8.

Flemnits, Ernst. (See Glässer, O., and Flemnits.)

Fletcher Works. (See Schaum, Carl, assignor.)

Flintermann, Gerhard, Orange, N. J. Flexible joint. 1,753,985; Apr. 8.

Florine, August W., Fort Atkinson, Wis. Mail-box support. 1,753,506; Apr. 8.

Follis, Charles E., Allen, Okla. Pump for oil wells. 1,754,088; Apr. 8.

Foo, Lee S., Manchester, N. H. Fuse. 1,754,166; Apr. 8.

Ford, Hannibal C., Jamaica, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Plotting apparatus. 1,753,781; Apr. 8.

Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Engine. 1,753,825; Apr. 8.

Ford Instrument Company. (See Ford, Hannibal C., assignor.)

Ford Instrument Company. (See Tanner, Harry L., assignor.)

Ford Motor Company. (See Ford, Henry, assignor.)

Foucault, Charles M. (See Matabon, J. L., and Foucault.)

Fowler, Alfred B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutter head. 1,753,855; Apr. 8.

Fowler, Clarence B., Queens Village, N. Y. Indicator for parking road vehicles. 1,754,014; Apr. 8.

Fox, Frederick L., Washington, D. C. Cap structure for collapsible tubes. 1,753,289; Apr. 8.

France, Thomas W., Providence, R. I., assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa. Tentering machine. 1,754,089; Apr. 8.

Frank, Fritz, Berlin, Germany. Coating paper-pulp vessels for the protection thereof against the action of moisture, fat, soap, and the like. 1,753,565; Apr. 8.

Frankart, Inc. (See von Frankenberg, Arthur, assignor.)

Kranklin Knitting Mills, Inc. (See Hug, Frank, assignor.)

Franklin Railway Supply Company. (See Schellens, Eugene L., assignor.)

Franklin Simon & Company. (See Long, Dorothy, assignor.)

Fraser, Frank, assignor to Libbey-Owens Glass Company, Toledo, Ohio. Laminated glass. 1,753,744; Apr. 8.

Freeling, Joseph E., et al. (See Thexton, J., jr., and Tomlinson, assignors.)

Freese, Frank G., Aldan, Pa. Rail lock. 1,754,155; Apr. 8.

French & Hecht, Incorporated. (See Einfeldt, Ernest E., assignor.)

Freundlich, Erich, Dusseldorf-Oberkassel, Germany. Evaporator for refrigerating plants. 1,753,856; Apr. 8.

Friedberg, Leonard, Brooklyn, N. Y. Powder puff. 1,754,090; Apr. 8.

Fried, Krupp Grusonwerk Aktiengesellschaft. (See Bodenstein, Paul, assignor.)

Fried. Krupp Grusonwerk Aktiengesellschaft. (See Johannsen, Friedrich, assignor.)

Friedman, Emery G., Tampico, Mexico. Tank-sealing device. 1,754,091; Apr. 8.

Friedmann, firm of Alex. (See Srulowitz, Hermann, assignor.)

Friendly, Herbert M., Chicago, Ill. Automatic telephone system. Re17,638; Apr. 8.

Frischer, Hermann, Cologne-Lindenthal, Germany. Production of acids. 1,754,156; Apr. 8.

Fuchs, Otto, assignor to Holsverkohlungs-Industrie Aktiengesellschaft, Constance, Baden, Germany. Producing activated carbon. 1,753,507; Apr. 8.

Fuller, Frederick L., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,753,288; Apr. 8.

Fuller, Frederick L., Ilion, N. Y., assignor to Remingtos Arms Company, Inc. Cash register. 1,753,289; Apr. 8.

Funk, William G., Covington, Ky., assignor of one-fourth to S. G. Clark, Cincinnati, Ohio, and one-fourth to F. M. Andrews, Fort Thomas, Ky. Thread cutter 1,754,092; Apr. 8.

Gaffney, James A., New York, N. Y. Blade holder and handle. 1,753,459; Apr. 8.

Gaisman, Lucien, Audenshaw, near Manchester, England. Knee grip for motor bicycles. 1,753,826; Apr. 8.

Gallison, Ernest A., Watertown, assignor, by mesne assignments, to Bay State Fishing Company, Boston, Mass. Fish-cutting machine. 1,754,157; Apr. 8.

Galotta, Victor, et al. (See Corbi, Joseph L., assignor.)

Galterio, Ada. (See Galterio, E. (assignor), Mariotti and Ruggiero.)

Galterio, Ella, D. C. Mariotti, and A. L. Ruggiero; said E. Galterio assignor to A. Galterio, Denver, Colo. Shoe-stretching last. 1,753,857; Apr. 8.

Gamble, Stanley B., Oakland, Calif. Bed-rail lock. 1,753,407; Apr. 8.

Gammeter, John R. (See Perks, George W., assignor.)

Gannon, Alfred E., J. F. MacNeil, and W. J. MacLellan, Long Beach, Calif. Box hook. 1,753,566; Apr. 8.

Garbarino, Americo F., Medford, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Lubricating system. 1,753,460; Apr. 8.

Gardner, Delamere B., Los Angeles, Calif. Reflecting and scanning apparatus. 1,753,697; Apr. 8.

Gardner-Denver Company. (See Pearson, Gustav C., assignor.)

Garrett, James W., assignor to Yarnall-Waring Company, Philadelphia, Pa. Steam trap. 1,753,508; Apr. 8.

Gasparich, Anton, Oakland, Calif. Instrument for drafting irregular curves. 1,753,698; Apr. 8.

Gay, Fraser W., Newark, N. J. Electric switch. 1,753,650; Apr. 8.

Gay, Roy, Memphis, Tex. Combination garment supporter and comforter. 1,753,858; Apr. 8.

Gebhard, Louis A., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Inductance system. 1,753,408; Apr. 8.

Gebhart Folding Box Company, The. (See Gebhart, L. H., and Wise, assignors.)

Gebhart, Louis H., and S. G. Wise, assignors to The Gebhart Folding Box Company, Dayton, Ohio. Box. 1,753,461; Apr. 8.

Geery, Charles H., Kansas City, Mo. Watch-cleaning machine. 1,753,462; Apr. 8.

Geier, P. A., Company, The. (See Martinet, Eugene F., assignor.)

Geier, P. A., Company, The. (See Willis, Olo C., assignor.)

Gemex Company. (See Roy, Wilfred J., assignor.)

General Aniline Works, Inc. (See Haller, Josef, assignor.)

General Aniline Works, Inc. (See Wagner, H., Hoffa, Runne, Thoma, and Heyna, assignors.)

General Electric Company. (See Bedford, Alda V., assignor.)

General Electric Company. (See Brown, C. A., and Nielsen, assignors.)

General Electric Company. (See Faus, Harold T., assignor.)

General Electric Company. (See Fitz Gerald, Alan S., assignor.)

General Electric Company. (See Goodwin, Victor E., assignor.)

General Electric Company. (See Jewitt, Dennis E., assignor.)

General Electric Company. (See MacLeod, D. R., King, and Hough, assignors.)

General Electric Company. (See Potter, William B., assignor.)

General Electric Company. (See Rankin, William K., assignor.)

General Electric Company. (See Rosenberg, Friedrich, assignor.)

General Electric Company. (See Sabbah, Camil A., assignor.)

General Electric Company. (See Trencham, H., Heath, Hamlyn, and Cox, assignors.)

General Motors Corporation. (See Earl, H. J., Pew, and Tjaarda, assignors.)

General Motors Corporation. (See Linn, C. W., Bigelow, and Raiche, assignors.)

General Motors Corporation. (See Schwarze, Herman, assignor.)

General Motors Corporation. (See Short, Charles R., assignor.)

General Motors Research Corporation. (See Mougey, Harry C., assignor.)

General Motors Research Corporation. (See Short, Charles R., assignor.)

General Motors Research Corporation. (See Williams H. M., and Lee, assignors.)

General Steel Castings Corporation. (See Lents, William L., assignor.)

Geometric Tool Company, The. (See Breitenstein, Albert F., assignor.)

George, Harry S., Massapequa, N. Y., assignor to Electro Metallurgical Company. Soldering. 1,753,509; Apr. 8.

Georgopoulos, Michael L., West Palm Beach, Fla. Bread slicer. 1,753,371; Apr. 8.

Gerhardt, Oscar, Berlin-Lichterfelde-Ost, Germany. Radiation apparatus. 1,753,885; Apr. 8.

Getd, Phares A., Portland, Oreg. Marker for bank pass and other books and holder for checks of check folds. 1,754,093; Apr. 8.

Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Refrigerator-door construction. 1,753,567; Apr. 8.

Gibbs, Leon M., Chicago, Ill., assignor, by mesne assignments, to Teleswitch Corpoartion. Method and apparatus for directing the switching of railway cars at yards and terminals. 1,753,602; Apr. 8.

Gibson, Francis W., West Roxbury, Mass. Time indicator. 1,754,203; Apr. 8.

Gibson, Francis W., West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio. Display device. 1,754,199; Apr. 8.

Gibson, Joseph R., Chicago, Ill. Razor-blade sharpener. 1,753,510; Apr. 8.

Giese, Raymond C. (See Pawlick, O. A., and Giese.)

Gilbert, John J., Douglaston, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Duplex telegraph system for loaded cables. 1,753,336; Apr. 8.

Gillentine, William A. (See Collins, E. R., Eberhart, and Gillentine.)

Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Windshield wiper. 1,753,651; Apr. 8.

Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,753,699; Apr. 8.

Girard, George, New York, N. Y. Hair-cutting apparatus. 1,753,652; Apr. 8.

Given, Frederick J., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjustable inductance coil. 1,753,337; Apr. 8.

Glass, George, sr., Erie, Pa. Self-serving tray. 1,754,094; Apr. 8.

Glässer, Otto, and E. Flemnits, Lubeck, assignors to the Firm: L. Schuler A.-G. Werkzeugmaschinenfabrik, Goppingen, Wurttemberg, Germany. Tube-cutting machine. 1,753,827; Apr. 8.

Glenn, George G., Long Beach, Calif. Auxiliary top for gas stoves. 1,753,886; Apr. 8.

Glover, John, Chicago, Ill. Insect repellent. Des. 80,888; Apr. 8.
Gober, Richard G., Alameda, Calif. Combination stool, ladder, and kitchen block. 1,753,372; Apr. 8.
Goby, Clifford S., Cleveland, assignor of one-half to A. M. Davis, New London, Ohio. Valve-operating mechanism. 1,753,745; Apr. 8.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Tack-pulling machine. 1,753,409; Apr. 8.
Goetzmann, Jules, Paris, France. Weighing and recording machine. 1,753,202; Apr. 8.
Gohmann Bros. and Kahler Company. (See Gohmann, Charles L., assignor.)
Gohmann, Charles L., New Albany, Ind. Door-operating device for stoves and furnaces. 1,754,095; Apr. 8.
Gohmann, Charles L., assignor to Gohmann Bros. and Kahler Company, New Albany, Ind. Door construction for stove casings. 1,754,096; Apr. 8.
Goldberg, Maurice A., et al. (See Drahonovsky, John B., assignor.)
Goldsmith Metal Lath Company, The. (See Goldsmith, William M., assignor.)
Goldsmith, P., Sons Company, The. (See Dickman, Arthur, assignor.)
Goldsmith, William M., assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio. Spreader for use with metal tiles. 1,753,463; Apr. 8.
Goodloe, Alfred M., Bradford, Pa., assignor, by mesne assignments, to American Air Filter Company, Louisville, Ky. Air filter. 1,753,653; Apr. 8.
Goodrich, B. F., Company, The. (See Bauman, Harry A., assignor.)
Goodrich, B. F., Company, The. (See Slusher, Frank, assignor.)
Goodwin, Victor E., Pittsfield, Mass., assignor to General Electric Company. Lightning arrester. 1,754,158; Apr. 8.
Gordon, William, Union, N. J. Screw-actuated vise. 1,753,924; Apr. 8.
Gorr, Walter B., assignor to Skinner Engine Company, Erie, Pa. Steam engine. 1,753,925; Apr. 8.
Gough, Joseph, Newark, N. J., assignor to Gough Stemming Machine Corporation, New York, N. Y. Leaf-handling machinery. 1,753,373; Apr. 8.
Gough Stemming Machine Corporation. (See Gough, Joseph, assignor.)
Graff, George, H. B. Haskins, and G. E. Gunther, assignors, by mesne assignments, to The Dura Company, Toledo, Ohio, Handle structure. 1,753,700; Apr. 8.
Grant, Albert E., New York, N. Y. Oil-burning apparatus. 1,753,782; Apr. 8.
Grant, Charles N., Haverhill, Mass. Saw-filing guide. 1,753,701; Apr. 8.
Grant, William D., Vancouver, British Columbia, Canada. Subaquatic drill. 1,753,511; Apr. 8.
Graves, Lynus O., Tabernash, Colo. Toothbrush. 1,753,290; Apr. 8.
Gray Processes Corporation. (See Gray, Thomas T., assignor.)
Gray, Thomas T., Elizabeth, assignor to Gray Processes Corporation, Newark, N. J. Treatment of fluids with solid substances. 1,753,859; Apr. 8.
Gray, William J., Eugene, Oreg. Changeable exhibitor. 1,753,603; Apr. 8.
Great Western Electro-Chemical Company. (See Hirschkind, Wilhelm, assignor.)
Greeley, Alton H. (See Safford, Clarence E., assignor.)
Green, Newton B., assignor to Eastman Kodak Company, Rochester, N. Y. Light control for photographic-printing machines. 1,754,204; Apr. 8.
Greenhaw, William R., Healdton, Okla. Boll-weevil and vegetation extinguisher. 1,754,097; Apr. 8.
Greenhill, Charles W., New York, N. Y. Protective book cover. 1,753,464; Apr. 8.
Greer, Frederick W. (See Greer, Jesse W. and F. W.)
Greer, Jesse W. and F. W., Cambridge, Mass. Confectionery-cooling tunnel. 1,753,828; Apr. 8.
Grice, John. (See Bache, E. W., and Grice.)
Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Article of shoe manufacture and making the same. 1,753,702; Apr. 8.
Griggs, Henry L., Pelham, N. Y., assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn. Combined electrical phonograph and radiocabinet. 1,753,986; Apr. 8.
Grip Nut Company. (See Endsley, L. E., and Corff, assignors.)
Grisby-Grunow Company. (See Burton, Frank C., assignor.)
Grismore, George W., Salt Lake City, Utah. Flange oiling and safety device. 1,753,410; Apr. 8.
Groebli, George, Dallas, Tex. Shock absorber. 1,753,430; Apr. 8.
Groombridge, Walter H., assignor to Arthur J. Dickinson Limited, Deptford, London, England. Manufacture of insecticides. 1,753,887; Apr. 8.
Guerin, James M. (See Guerin, Joseph A., sr., and J. M.)
Guerin, Joseph A., sr., and J. M., Philadelphia, Pa. Utensil for making drip coffee. 1,753,783; Apr. 8.
Gulberson Corporation, The. (See Wilson, R. A., and Crickmer, assignors.)
Guinn, Samuel E., Johnson City, Tenn. Cigar lighter. Des. 80,889; Apr. 8.
Gunn, Charles H., Alameda, Calif. Rubber-covered spring bumper. 1,753,411; Apr. 8.
Gunther, George E. (See Graff, G., Haskins, and Gunther.)
Guth, Edwin F., St. Louis, Mo. Bowl-holding means for lighting fixtures. 1,753,374; Apr. 8.
Hague, Alfred E., West Orange, and G. H. Peterson, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,753,338; Apr. 8.
Hahneman, William F., Puerto Cortes, Spanish Honduras, Central America. Apparatus for producing canals or the like. 1,753,860; Apr. 8.
Halbach, Howard L., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company. Apparatus for drawing sheet glass. 1,753,291; Apr. 8.
Haller, Josef, Wiesdorf-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Making naphthisatin compounds. 1,754,098; Apr. 8.
Hamilton, John H., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Tentering machine. 1,754,099; Apr. 8.
Hamlyn, William P. (See Trencham, H., Heath, Hamlyn, and Cox.)
Hammock, Henry, and G. Riddle, Boise, Idaho. Fruit-picker's bag. 1,754,100; Apr. 8.
Hammond, Theodore E. (See Tacchella, Adolph A., assignor.)
Hammond, William J., Plumas, Manitoba, Canada. Gate or door opening appliance. 1,753,512; Apr. 8.
Hansen, Alfred T., Green Bay, Wis. Excavator-dipper latch. 1,753,513; Apr. 8.
Hanson, John H. (See Paige, W. R., and Hanson.)
Hanson, Maynard D., Portland, Me. Golf driving mat. 1,753,654; Apr. 8.
Haquin, Henri L. J., Voyenne, France. Insulator and mold for casting the same. 1,754,101; Apr. 8.
Hardie, James B., St. Louis, Mo. Mop. 1,753,514; Apr. 8.
Hardin, George W., Greeneville, Tenn. Aircraft. 1,754,211; Apr. 8.
Harding, Samuel B., Oshkosh, Wis. Boiler. 1,754,102; Apr. 8.
Harris, Arthur W., F. M. Suchk>, and J. L. King, Atlanta, Ga., assignors to Atlanta Harness & Reed Manufacturing Company. Wire-tempering apparatus. 1,754,190; Apr. 8.
Harris, Moses A., Milford, Conn. Electric packer. 1,753,412; Apr. 8.
Hartford-Empire Company. (See Hiller, Everett O., assignor.)
Hartford-Empire Company. (See Wardley, T., and Renn., assignors.)
Hartmann, Otto H., and H., Peperkorn, assignors to Schmidt'sche Heissdampf-G. m. b. H., Kassel-Wilhelmshohe, Germany. Marine boiler. 1,754,167; Apr. 8.
Hartzell, Herman L., assignor to Delco-Remy Corporation, Anderson, Ind. Ignition apparatus. 1,753,604; Apr. 8.
Haskins, Howard B. (See Graff, G., Haskins, and Gunther.)
Haskins, Howard B., assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Retainer for window regulators. 1,753,703; Apr. 8.
Hatcher, Julian S., Philadelphia, Pa. Cartridge case. 1,753,413; Apr. 8.
Hauser, Emil, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J. Chair. Des. 80,890; Apr. 8.
Hauser, Emil, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J. Settee or similar article. Des. 80,891; Apr. 8.
Hawkins, Walter T. (See McGookin, George F., assignor.)
Heath, Herbert C. (See Trencham, H., Heath, Hamlyn, and Cox.)
Heinen, Frederick C., and W. W. Darrow, Chicago, Ill., assignors to Camel Company, Eau Claire, Wis. Metal car door. 1,753,375; Apr. 8.
Heintz Manufacturing Company. (See D'Ardenne, Walter H., asignor.)
Heitman, Herbert, Woodhaven, assignor to The Fred'k Page Contracting Company, Inc., New York, N. Y. Firebrick construction. 1,754,015; Apr. 8.
Heitzel, Joseph W., Warren, Ohio. Straightedge. 1,753,414; Apr. 8.
Hemingway, Wilson, jr. (See Andrew, F. W., and Hemingway.)
Hencken, John K., Brooklyn, N. Y. Earth-boring machine. 1,753,339; Apr. 8.
Hendryx, Andrew B., Company, The. (See Tullis, Ross L., assignor.)
Henning, Mortie, assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Apparatus for assembling armatures. 1,753,605; Apr. 8.
Hepburn, Donald McK., Philadelphia, Pa. Shoe with instep pads. 1,753,415; Apr. 8.
Hepner, Harry W., Syracuse, N. Y. Toy. 1,753,926; Apr. 8.
Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster. 1,753,431; Apr. 8.
Herr, Adam, Sheboygan, Wis. Garage-door operator. 1,753,340; Apr. 8.
Hershberger, David C., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Current-collecting device. 1,754,016; Apr. 8.

Herzog, Carl W., Toledo, Ohio. Transmission gear. 1,753,784; Apr. 8.
Heyland, Alexandre, Brussels, Belgium. Polyphase commutator dynamo-electric machine. 1,754,017; Apr. 8.
Heylandt, Christian W. P., Berlin-Lankwitz, Germany. Transferring liquefied gases from one container to another. 1,753,785; Apr. 8.
Heyne, Hans. (See Wagner, H., Hoffa, Runne, Thoma, and Heyne.)
Higbee, Ray P., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, Power-transmission mechanism. 1,753,927; Apr. 8.
Higgin, Henry, assignor to The Higgin Manufacturing Company, Newport, Ky. Window screen. 1,754,018; Apr. 8.
Higgin Manufacturing Company, The. (See Higgin, Henry, assignor.)
Higgins, Avery W., and S. G. Rudd, Greensboro, N. C. Washing machine. 1,753,416; Apr. 8.
Hill, Harold N. (See Asten, E. V., and Hill.)
Hill, Raymond P. (See Wolf, R. B., and Hill.)
Hiller, Everett O., assignor to Hartford-Empire Company, Hartford, Conn. Glass-fabricating mechanism. 1,753,655; Apr. 8.
Hills, George T., Chicago, Ill., assignor to Muskegon Manufacturing Company, Muskegon, Mich. Floor-surfacing machine. 1,753,576; Apr. 8.
Hilts, George S., Brooklyn, N. Y., and W. F. Purcell, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y. Printing telegraph. 1,753,656; Apr. 8.
Himmel Brothers Co., The. (See Himmel, Fred, and I., assignors.)
Himmel, Fred and I., assignors to The Himmel Brothers Co., New Haven, Conn. Machine for forming strips for store-front construction. 1,753,829; Apr. 8.
Himmel, Isidore. (See Himmel, Fred and I.)
Hincher Paper Box Co. (See Cunningham, Raymond C., assignor.)
Hinkel, Adam, Offenbach, Germany. Indicating device for displaying variable information. 1,753,786; Apr. 8.
Hirschkind, Wilhelm, Pittsburg, Calif., assignor to Great Western Electric-Chemical Company. Recovering alkali-metal xanthates. 1,753,787; Apr. 8.
Hjermstad, John M., Red Wing, Minn. Harrow. 1,754,103; Apr. 8.
Hlavac, Anthony, Chicago, assignor to E. J. Hubbard, Berwyn, Ill. Braider bobbin. 1,753,341; Apr. 8.
Hoecker, Albert C., St. Louis, Mo. Valve and head for gas engines. 1,753,515; Apr. 8.
Hoetger, Bernhard, Worpswede, near Bremen, Germany. Advertising device. 1,753,203; Apr. 8.
Hoffa, Erwin. (See Wagner, H., Hoffa, Runne, Thoma, and Heyne.)
Hoffman, John C., Sioux City, Iowa. Extensible bumper for automobiles. 1,754,104; Apr. 8.
Hoffmann, Otto, Woodhaven, assignor to Art Fixtures, Inc., New York, N. Y. Chandelier or similar article. Des. 80,892; Apr. 8.
Hoffmann, Otto, Woodhaven, assignor to Art Fixtures, Inc., New York, N. Y. Lantern or similar article. Des. 80,893; Apr. 8.
Hoffmann, Otto, Woodhaven, assignor to Art Fixtures, Inc., New York, N. Y. Lighting fixture or similar article. Des. 80,894; Apr. 8.
Höhne, Wilhelm, Berlin-Charlottenburg, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Tubular postal system. 1,753,987; Apr. 8.
Höhne, Wilhelm, Berlin-Charlottenburg, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Tubular postal dispatching station. 1,753,988; Apr. 8.
Höhne, Wilhelm, Berlin-Charlottenburg, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Switch point for tubular postal systems. 1,753,989; Apr. 8.
Holland, Walter E., and D. P. Barnshaw, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Radio receiver control. 1,754,105; Apr. 8.
Hollindale, Wilfred H. (See Schnell, W., and Hollindale.)
Holmes, Frederick J., Detroit, Mich., assignor to United States Trust Company of Detroit, trustee. Rotary valve. 1,754,019; Apr. 8.
Holmes, William, Chicago, Ill. Kneeling pad. 1,753,606; Apr. 8.
Holsen, Alban A., Two Rivers, Wis. Tool for compressing valve springs. 1,753,888; Apr. 8.
Holt, Daniel S., New Brunswick, N. J., assignor to Armstrong Cork Company, Lancaster, Pa. Block-printing machine and operating the same. 1,753,265; Apr. 8.
Holsverkohlungs-Industrie Aktiengesellschaft. (See Bassle, Georg, assignor.)
Holsverkohlungs-Industrie Aktiengesellschaft. (See Fuchs, Otto, assignor.)
Honeywell, Stanley, Atwater, Ohio. Vine lifter. 1,754,168; Apr. 8.
Hoppe, George, Baltimore, Md. Vending machine. 1,753,417; Apr. 8.
Horii, Shinjiro, Tokyo, Japan. Stencil sheet. 1,753,204; Apr. 8.
Horii, Shinjiro, Tokyo, Japan. Stencil sheet. 1,753,205; Apr. 8.
Horochowsky, Anthony, assignor of one-fourth to C. Lefchick, Elizabeth, N. J. Electric signal and switch therefor. 1,753,568; Apr. 8.
Horsley, Archibald. (See Brownlie, J., and Horsley.)
Horst, Karl. (See Mayer, F., Billig, Horst, and Schirmacher.)
Horton Sweets Co. (See Peterson, Frederick W., assignor.)
Hough, Eugene L. (See MacLeod, D. R., King, and Hough.)
Householder, Albert P., and H. M. Kelly, St. Louis, Mo. Positively-locked coupler cross key. 1,753,292; Apr. 8.
Hover, Charles F., Conrad, Mont. Guard finger and ledger plate. 1,753,293; Apr. 8.
Howell, Warren, and G. Sherburne, Pasadena, Calif. Fluid-distributing apparatus. 1,753,240; Apr. 8.
Hubbard and Company. (See Peirce, Charles L., jr., assignor.)
Hubbard, Beverly R., Higganum, Conn., assignor to Submarine Signal Corporation, Boston, Mass. Direction finding. 1,753,418; Apr. 8.
Hubbard, Eber J. (See Hlavac, Anthony, assignor.)
Hubbard, Eber J., Berwyn, Ill. Reel. 1,753,342; Apr. 8.
Hug, Frank, Brooklyn, assignor to Franklin Knitting Mills, Inc., New York, N. Y. Master testing card for jacquard knitting machines. 1,753,343; Apr. 8.
Hulbert, Edwin F., assignor to The Master Package Corporation, Owen, Wis. Container. 1,753,928; Apr. 8.
Hulbert, Edwin F., assignor to The Master Package Corporation, Owen, Wis. Reenforced container. 1,753,929; Apr. 8.
Hunt, Warren T., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic carburetor control. 1,753,788; Apr. 8.
Hurst, James E., Thorncliffe, near Sheffield, England, and E. B. Ball, assignors to Centrifugal Castings Limited, Kilmarnock, Scotland. Apparatus for extracting pipes and like cylindrical articles from the molds in which they are cast. 1,754,106; Apr. 8.
Hyde, Albert J., Portland, Oreg. Egg rack. 1,754,020; Apr. 8.
Hyde, Ralph M., Cleveland, and D. Schappi, Lakewood, assignors to The Oster Manufacturing Company, Cleveland, Ohio. Machine for cutting off pipes and the like. 1,753,704; Apr. 8.
I. G. Farbenindustrie Aktiengesellschaft. (See Mayer, F., Billig, Horst, and Schirmacher, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Rosenthal, L., and Kropp, assignors.)
Ice Cream Smack Products Co. (See Myers, Wilson R., assignor.)
Illinois Stoker Company. (See Polster, John P., assignor.)
Imperial Lamp Mfg. Co. (See Waltman, Chauncey E.)
Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)
International Projector Corporation. (See Dina, Augusto, assignor.)
Ireland Aircraft, Inc. (See Brimm, Daniel J., jr., assignor.)
Irving, William W., Charlotte, N. C. Bag holder and bag dispenser. 1,753,569; Apr. 8.
Isbell, John A., Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Separable casting box for stereotype printing plates. 1,753,419; Apr. 8.
Isom, Edward W., Scarsdale, assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,753,422; Apr. 8.
Jack, George B., jr. (See Seidell, L., and Jack.)
Jackson, Thaddeus A., Brooklyn, assignor of one-half to W. J. Skelly, New York, N. Y. Grinding wheel and mounting the same. 1,753,877; Apr. 8.
Jacobi, Edward N., assignor to Briggs and Stratton Corporation, Milwaukee, Wis. Switch. 1,753,861; Apr. 8.
Jacobsen, Charles, Tulsa, Okla. Apparatus for pumping deep wells. 1,753,930; Apr. 8.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler and economiser and operating the same. 1,753,266; Apr. 8.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,753,267; Apr. 8.
Jacques, Raynaldo P., Woonsocket, R. I., assignor to Adams Industries, Inc., New York, N. Y. Making flexible tubular conduits. 1,753,465; Apr. 8.
James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Treating liquid partial-oxidation product mixtures and products thereof. 1,753,516; Apr. 8.
James, Joseph H., Pittsburgh, assignor to C. P. Byrnes, trustee, Sewickley, Pa. Treating liquid partial-oxidation products. 1,753,517; Apr. 8.
James, Edmund D., assignor to Scovill Manufacturing Company, Waterbury, Conn. Self-locking slide fastener. 1,754,200; Apr. 8.
Janette, John T., Chicago, Ill. Body-treatment machine. 1,753,518; Apr. 8.
Jannarone, Peter, Nutley, N. J. Concrete joint form. 1,754,107; Apr. 8.
Jaton Manufacturing Corporation. (See Seidell, L., and Jack, assignors.)
Jauch, Robert J., assignor to The Utility Strata Mfg. Co., Fort Wayne, Ind. Bulldozer for chassis frames. 1,753,889; Apr. 8.

Jay Manufacturing Co. (See Paxton, Sherman H., assignor.)
Jennings, Melvin O., Lexington, assignor to H. H. Beckwith, Brookline, Mass. Shoe heater. 1,753,705; Apr. 8.
Jermář, Frant.šek, Opava, Czechoslovakia. Weir shutter. 1,754,108; Apr. 8.
Jewitt, Dennis E., Old Bilton, near Rugby, England, assignor to General Electric Company. Electric ship-propulsion system. 1,754,021; Apr. 8.
Jffa Ges. m. b. H. (See Schworetzky, Gustav, assignor.)
Joerissen, Carl A., Washington, D. C. Typewriting machine. 1,753,390; Apr. 8.
Johannsen, Friedrich, Magdeburg, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Recovering gasifiable metals as oxides. 1,754,169; Apr. 8.
Johannsen, Friedrich, Magdeburg, assignor to The firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Treating ores and metallurgical products, slags, and the like. 1,754,170; Apr. 8.
John, Robert, Long Branch, N. J., assignor to Arjon Chemical Co. Fuel for internal-combustion engines. 1,753,294; Apr. 8.
Johnsen, Einar A. (See Coghlan, T. G., and Johnsen.)
Johnson, Albert C., assignor to The Louden Machinery Company, Fairfield, Iowa. Roof structure. 1,753,862; Apr. 8.
Johnson, Gustaf, Duluth, Minn. Chain hook. 1,753,607; Apr. 8.
Johnson, Gustav, West Roxbury, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Button. 1,754,201; Apr. 8.
Johnson, John E., Aurora, Ill. Die-sinking or engraving machine. 1,753,206; Apr. 8.
Johnson, Joseph B. (See Pemberton, U. C., and Johnson.)
Johnson, Joseph N., Irwin, Calif. Vehicle spring. 1,753,420; Apr. 8.
Johnson, Lane, Ingram, assignor to The United Engineering & Foundry Company, Pittsburgh, Pa. Rolling mill. 1,753,268; Apr. 8.
Johnson-Vea, Charles T., and W. A. Braun, assignors to Dover Manufacturing Company, Dover, Ohio. Tubular heating unit. 1,754,003; Apr. 8.
Jones, George A., Piapot, Saskatchewan, Canada. Stubble burner. 1,754,022; Apr. 8.
Jones, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Making metal spools. 1,754,205; Apr. 8.
Jones, Llewellyn, Muncie, Ind. Apparatus for the reduction of impurities contaminating molten metal. 1,753,891; Apr. 8.
Jones, Luther M., Chicago, Ill. Utility stand. 1,753,378; Apr. 8.
Jones, Sidney J., Shafmon, Ill. Wire splicer. 1,754,023; Apr. 8.
Jones, Webster G., Detroit, Mich. Automatic gear shift. 1,754,212; Apr. 8.
Jonsson, Anders J., Linkoping, Sweden. Capping machine. 1,753,789; Apr. 8.
Joy, Charles H., jr. (See Sauer, L. J., and Joy.)
Joy, Charles H., sr. (See Sauer, L. J., and Joy, assignors.)
Jubilee Manufacturing Company. (See Gillet, Alexis F. assignor.)
Junkers, Hugo, Dessau, Germany. Unit for assembling lattice work. 1,753,706; Apr. 8.
Kadar, Louis, assignor to Chicago Railway Equipment Company, Chicago, Ill. Rail anchor. 1,753,421; Apr. 8.
Kanner, Henry, San Antonio, Tex. Wheel and tire cover. 1,753,519; Apr. 8.
Kaplan, Isidor, New York, N. Y. Adjustable garment closure. 1,753,657; Apr. 8.
Karmazin, John, Detroit, Mich. Forming radiator elements. 1,753,295; Apr. 8.
Kaufman, Harry G., New York, N. Y. Gem setting. Des. 80,895; Apr. 8.
Kaufman, Harry G., New York, N. Y. Gem setting. Des. 80,896; Apr. 8.
Kaufman, Harry G., New York, N. Y. Gem setting. Des. 80,897; Apr. 8.
Kaufman, Harry G., New York, N. Y. Gem setting. Des. 80,898; Apr. 8.
Kaufmann, Harry A., Highland Park, Mich. Razor. 1,753,422; Apr. 8.
Kaupe, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Seed planter. 1,753,520; Apr. 8.
Kawai, Kametaro, Tokyo, Japan. Preparing concentrated cod-liver oil. 1,753,790; Apr. 8.
Kay, Lloyd D., Los Angeles, Calif. Molding apparatus. 1,753,608; Apr. 8.
Keeney, Joseph, Media, Pa. Friction brake. 1,753,466; Apr. 8.
Keller, Charles L., Cincinnati, assignor to The Richardson Company, Lockland, Ohio. Fibrous sheet production. 1,754,024; Apr. 8.
Kelley, William V. D., Jersey City, N. J. Color photography. 1,753,379; Apr. 8.
Kelly, Henry M. (See Housholder, A. P., and Kelly.)
Kelly, Joseph, Bottle, England. Ship's life-saving apparatus. 1,754,213; Apr. 8.
Kelsey-Hayes Wheel Corporation. (See Batie, Joseph E., assignor.)
Kelvinator Corporation. (See Erbach, Frederick R., assignor.)
Kelvinator Corporation. (See Replogle, John R., assignor.)
Kelvinator Corporation. (See Spreen, Charles C., assignor.)
Kemp, Archie R., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plastic composition. 1,753,746; Apr. 8.
Kennedy, John J., Pomeroy, Pa., assignor to Bethlehem Steel Company. Welding-roll screw down. 1,753,241; Apr. 8.
Keystone Manufacturing Co. (See Blackburn, Charles A., assignor.)
Kidd, James A., Petersburg, Va. Aeroplane-wing heater. 1,753,433; Apr. 8.
Kiesel, Bernhard F., assignor to F. L. McLaughlin Company, Detroit, Mich. Nut. 1,753,791; Apr. 8.
King, Clifford G., Providence, R. I. Pin. 1,753,570; Apr. 8.
King, Frederic D. (See MacLeod, D. R., King, and Hough.)
King, John L. (See Harris, A. W., Suchke, and King.)
Kinsfogl, Phelep, et al. (See Drahonovsky, John B., assignor.)
Kirsten, Frederick W., Blue Island, Ill. Receptacle for razor blades. 1,753,269; Apr. 8.
Kitze, Herman, Owen, Wis. Rocking toy. 1,754,109; Apr. 8.
Klancnik, Ferdinand, et al. (See Drahonovsky, John B. assignor.)
Klein, Gustav, Philadelphia, Pa. Grease absorber. 1,754,110; Apr. 8.
Kliesrath, Victor W. (See Bragg, C. S., and Kliesrath.)
Klingenberg, Wilhelm, assignor to Lamella Roof Syndicate Inc., New York, N. Y. Space-covering structure, such as roofs, walls, and the like. 1,753,892; Apr. 8.
Klingenberg, Wilhelm, assignor to Lamella Roof Syndicate Inc., New York, N. Y. Space-covering structure, such as roofs, walls, and the like. 1,753,893; Apr. 8.
Klocke, William H., Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing body and making same. 1,753,434; Apr. 8.
Klocke, William H., Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making lined bearings. 1,753,435; Apr. 8.
Knecht, Karl K., Evansville, Ind. Producing drawings. 1,753,344; Apr. 8.
Kniepert, Karl, Vienna, Austria. Brick or block for regenerators. 1,753,467; Apr. 8.
Knoop, William A., Hempstead, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Timing circuit. 1,753,345; Apr. 8.
Knudsen, Carl H., Brooklyn, N. Y. Governor control. 1,753,436; Apr. 8.
Kochendoerfer, Gerd, assignor to Deutsche Gold- & Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Preparation of sulphur compounds of pyridine. 1,753,658; Apr. 8.
Koehring Company. (See Lichtenberg, Erich H., assignor.)
Koehring Company. (See Webb, George E., assignor.)
Koenig, Remus, and W. S. Marvin, assignors to Metal Ware Corporation, Two Rivers, Wis. Electric percolator. 1,753,863; Apr. 8.
Kohlman, Henry, St. Paul, Minn. Hinge attachment for kitchen utensils. 1,753,990; Apr. 8.
Kokatnur, Vaman R., New York, N. Y. Anhydrous soap gels and making same. 1,753,659; Apr. 8.
Kolb, Charles F., Chicago, Ill. Door bed. 1,753,270; Apr. 8.
Kollenz, Fannie, et al. (See Drahonovsky, John B., assignor.)
Koppers Company, The. (See van Ackeren, Joseph, assignor.)
Köpplinger, Hermann, Vienna, Austria. Preparation for removing or preventing boiler scale and other like deposits. 1,754,171; Apr. 8.
Korns, Clarence C., Johnstown, Pa. Switch-throwing mechanism. 1,753,271; Apr. 8.
Korte, August C., and S. Redeker, Sunbury, and K. Mahnke, Williamsport, Pa. Base construction for electric bulb. 1,753,609; Apr. 8.
Kranig, Joe. (See Saunders, J. B., and Kranig.)
Kreisler, Jacques, New Rochelle, N. Y. Clasp for jewelry. 1,753,207; Apr. 8.
Krell, George. (See Warren, Clarence G., assignor.)
Krohn, Emil, and V. A. Lilquist, Duluth, assignors of one-third to A. W. Bjorklund, Minneapolis, Minn. Door-operating device. 1,753,272; Apr. 8.
Kronmiller, Carl G., Chicago, Ill., assignor to St. Regis Paper Company, New York, N. Y. Tape cutter. 1,753,894; Apr. 8.
Kropp, Walter. (See Rosenthal, L., and Kropp.)
Kroschel, Ellena R., administratrix. (See Kroschel, Louis A.)
Kroschel, Louis A., deceased, Los Angeles, Calif.; E. R. Kroschel, administratrix, Albany, Oreg. Built-in furniture. 1,753,423; Apr. 8.
Kuhnheim, Henry C., Newport, Ky. Belt buckle. 1,753,864; Apr. 8.
Kuna, Frank J. (See Lorang, Henry J., assignor.)
Kupec, William J. (See Chapin, P. P., and Kupec.)
Labisky, Henry S., Seattle, Wash. Washing-machine agitator. 1,753,521; Apr. 8.
La Brie, Ludger E., assignor to Bendix Brake Company, South Bend, Ind. Brake shoe. 1,753,208; Apr. 8.

La Chapelle, Euclid I., Brockton, Mass. Making shoes. 1,753,792; Apr. 8.
Laib, William L., Oak Park, Ill. Lamp and lamp hood and connection for electric signs. 1,753,209; Apr. 8.
Laib, William L., Oak Park, Ill. Lamp hood for electric lamps. 1,753,273; Apr. 8.
Laing, William. (See Townley, Stephen B. and P. B., Laing.)
Lamborn, Fred J., Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation. Grinding toothed articles. 1,753,707; Apr. 8.
Lamella Roof Syndicate, Inc. (See Klingenberg, Wilhelm, assignor.)
La Mont, Charles T., Milwaukee, Wis. Stocking marker. 1,753,865; Apr. 8.
Lang, Martin H., Minneapolis, Minn. Cable-forming device. 1,753,793; Apr. 8.
Langenberg, Frederick C., New York, N. Y., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Manufacture and repair of centrifugal molds. 1,753,747; Apr. 8.
Langford, Leonard W., Boston, Mass. Keyboard operator. 1,753,991; Apr. 8.
Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,753,830; Apr. 8.
Lantermier, Clement J., Fort Wayne, Ind. Florist's water fountain. 1,753,424; Apr. 8.
Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Spraying device. 1,753,522; Apr. 8.
Larson, Daniel M. (See Larson, Louis and D. M.)
Larson, Florence T. (See Larson, Fred P. and F. T.)
Larson, Fred P. and F. T., Ludington, Mich. Steamer. 1,753,895; Apr. 8.
Larson, Louis and D. M., Hanaford, N. Dak. Scraper for vehicle tires. 1,753,992; Apr. 8.
Lasier, David R., assignor to Norton-Lasier Company, Chicago, Ill. Doorcheck. 1,753,214; Apr. 8.
La Soudure Electrique Autogene S. A. (See Meunier, Francis, assignor.)
Latshaw, Elmer, assignor to The J. G. Brill Company, Philadelphia, Pa. Articulated car. 1,754,111; Apr. 8.
Lawrence, Fred E., Modesto, Calif. Wave-power apparatus. 1,754,025; Apr. 8.
Lawson, John W., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Engine-starting apparatus. 1,753,571; Apr. 8.
Leahy, Albert M. (See Reid, J., Leahy, and Lutts.)
Leary, James P., assignor to The Process Casting Company, Baltimore, Md. Chilling mold. 1,753,380; Apr. 8.
Lee, Charles L. (See Williams, H. M., and Lee.)
Leeds & Northrup Company. (See Schofield, W. R., jr., and Milner, assignors.)
Leeper, William L. (See Witkowski, J. J., and Leeper.)
Lefchick, Charles. (See Horochowsky, Anthony, assignor.)
Lehmann, Eduard E. E., Ellenburg, Germany. Sensitised element, process of making same, and process for producing photographic images thereon. 1,753,708; Apr. 8.
Lentz, William L., Tuckahoe, N. W., assignor, by mesne assignments, to Chrysler Corporation. Grinding toothed articles. 1,753,794; Apr. 8.
Leoty, Lawrence C., Dayton, Ohio. Arc lamp. 1,753,242; Apr. 8.
Lep, Anton, et al. (See Drahonovsky, John B., assignor.)
Levine, Louis. (See Solomon, S., and Levine.)
Levings, Sherburne D., Winnetka, assignor of one-third to R. N. Chamberlain and one-third to G. R. Berger, Chicago, Ill. Storage-battery electrode. 1,753,381; Apr. 8.
Lewis, Charles H. (See Travers, J. T., Lewis, and Urbain.)
Lewis, Edward F., Brooklyn, N. Y. Collapsible baby carriage. 1,753,931; Apr. 8.
Libbey-Owens Glass Company. (See Blair, James C., assignor.)
Libbey-Owens Glass Company. (See Drake, John L., assignor.)
Libbey-Owens Glass Company. (See Ferngren, Enoch T., assignor.)
Libbey-Owens Glass Company. (See Fraser, Frank., assignor.)
Libbey-Owens Glass Company. (See Mambourg, Leopold, assignor.)
Libbey-Owens Glass Company. (See Reece, Joseph A., assignor.)
Libbey-Owens Glass Company. (See Zadorozny, Mike, assignor.)
Lichtenberg, Erich H., assignor to Koehring Company, Milwaukee, Wis. Concrete mixer. 1,753,831; Apr. 8.
Liddle, Daniel L., Washington, D. C. Matrix-cleaning machine. 1,753,243; Apr. 8.
Liliquist, Victor A. (See Krohn, E., and Liliquist.)
Linch, Edward P., Philadelphia, Pa. Closure-retaining means for containers. 1,753,660; Apr. 8.
Lindale, Paul R. (See Westberg, E., and Timm, assignors.)
Lindersmith, Alva J., et al. (See Borgeson, Charles A., assignor.)
Lindsay, Harvey B., Evanston, Ill., assignor to Dry Zero Corporation, Wilmington, Del. Thermoinsulating structure and manufacturing the same. 1,753,896; Apr. 8.
Lindstrom, Linn O. B., San Francisco, Calif. Pullman-berth-curtain ventilator. 1,753,572; Apr. 8.
Line Material Company. (See Steinmayer, Alwin G., assignor.)
Linn, Cyrus W., C. G. Bigelow, and H. O. Raiche, Lansing, assignors to General Motors Corporation, Detroit, Mich. Door curtain. 1,753,795; Apr. 8.
Litle, Thomas J., jr., Detroit, Mich., assignor to Copeland Products, Inc., Detroit, Mich. Refrigeration. 1,753,796; Apr. 8.
Litle, Thomas J., jr., Indianapolis, Ind., assignor to Copeland Products, Inc., Detroit, Mich. Refrigerating mechanism. 1,753,797; Apr. 8.
Lobke, William, Brooklyn, N. Y. Art of printing. 1,753,932; Apr. 8.
Loeb, Siegmund, Berlin-Charlottenburg, Germany. Heater for automobiles. 1,753,897; Apr. 8.
Lonergan, Simon J., assignor to Bastian-Morley Company, La Porte, Ind. Gas burner. 1,753,962; Apr. 8.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 80,899; Apr. 8.
Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 80,900; Apr. 8.
Long, James T., assignor of twenty-five and one-half per cent to B. D. Talley, Bogalusa, La. Crank shaft. 1,753,709; Apr. 8.
Lorang, Henry J., assignor of one-half to F. J. Kuna, St. Louis, Mo. Metallic alloy. 1,753,748; Apr. 8.
Lorents, Valentin, assignor to United Cigarette Machine Company Aktiengesellschaft, Dresden, Germany. Process and apparatus for preparing raw tobacco. 1,753,578; Apr. 8.
Lormor, Henry W., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Unloading article carriers. 1,753,933; Apr. 8.
Loth, William A., assignor to Societe Industrielle des Procedes W. A. Loth, Paris, France. Aerodrome. 1,753,574; Apr. 8.
Loth, William A., assignor to Societe Industrielle des Procedes W. A. Loth, Paris, France. Annulling the effect of stray fields on radio receiving systems. 1,753,810; Apr. 8.
Louden Machinery Company, The. (See Johnson, Albert C., assignor.)
Lowe, James, Auckland, New Zealand. Valve-operating mechanism for water-gas plants. 1,753,274; Apr. 8.
Löwenthal & Weissberger, G. m. b. H. (See Projahn, Karl F., assignor.)
Lower, Melvin S., Barberton, Ohio, assignor to The Sun Rubber Company. Tray. 1,753,611; Apr. 8.
Loy, Walter W., Saskatoon, Saskatchewan, Canada, and E. J. Crum, Kalispell, Mont. Building construction. 1,754,026; Apr. 8.
Lubrequipment Company. (See Cornell, Mead, assignor.)
Luckey, George P., Lancaster, Pa., assignor, by mesne assignments, to American Cable Company, Inc., New York, N. Y. Flexible transmitting device. Re17,639; Apr. 8.
Lum, George R., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound-ranging system. 1,753,346; Apr. 8.
Lunney, Ambrose P., and F. L. Peart, Denver, Colo. Windshield-solution feeder. 1,753,934; Apr. 8.
Lusse Brothers, Inc. (See Lusse, Robert J., assignor.)
Lusse, Joseph C., Philadelphia, Pa. Amusement car. 1,754,172; Apr. 8.
Lusse, Robert J., assignor to Lusse Brothers, Inc., Philadelphia, Pa. Amusement-car construction. 1,754,112; Apr. 8.
Lutts, Carlton G. (See Reid, J., Leahy, and Lutts.)
Lykken, Henry G., Minneapolis, Minn. Material reducing and means therefor. 1,753,487; Apr. 8.
Maas, Arthur R., Los Angeles, Calif. Removing lead arsenate from fruit. 1,754,178; Apr. 8.
MacDonald, Allan A., Glen Ridge, assignor to Sloan & Company, Newark, N. J. Collar clasp. 1,753,832; Apr. 8.
MacDonald, Lester S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-clamping device. 1,753,425; Apr. 8.
MacGregor, Basil N., assignor to The Packard Electric Company, Warren, Ohio. Merchandise-display apparatus. 1,754,118; Apr. 8.
MacLellan, William J. (See Gannon, A. E., MacNeil, and MacLellan.)
MacLeod, Daniel T., assignor to Perfex Corporation, Milwaukee, Wis. Automobile body heater. 1,753,882; Apr. 8.
MacLeod, Donald R., F. D. King, Schenectady, N. Y., and E. L. Hough, St. Louis, Mo., assignors to General Electric Company. Automatic control system. 1,754,027; Apr. 8.
MacNeil, James F. (See Gannon, A. E., MacNeil, and MacLellan.)
Macomic, Chester A., Chicago, Ill., assignor to Patent Product Corporation of Chicago, Wilmington, Del. Pattern bed for typecasting machines and the like. 1,753,438; Apr. 8.
Magnetic Organ Action Company. (See Waters, H. F., and Brown, assignors.)
Mahnke, Kurt. (See Korte, A. C., Redeker, and Mahnke.)
Maisch, Oliver M., Chicago, Ill. Cutter. 1,753,935; Apr. 8.
Mambourg, Leopold, Lancaster, assignor to Libbey-Owens Glass Company, Toledo, Ohio. Sheet-glass edge-forming means. 1,753,749; Apr. 8.
Manoil, Jack, Brooklyn, N. Y. Frame for pictures, mirrors, and the like. Des. 80,901; Apr. 8.

Manor, Florian F., Oshkosh, Wis. Tandem-wheeled aircraft. 1,753,612; Apr. 8.

Manos, Stanley, New York, N. Y. Hat cover. 1,754,114; Apr. 8.

Manufacturers' Machine Company. (See Sjöström, Ivar L., assignor.)

Marcy Foundry Co. (See Hauser, Emil, assignor.)

Mariotti, Dominic C. (See Galterio, E., Mariotti, and Ruggiero.)

Marrable, Harry A., Linoleumville, N. Y. Clothesline. 1,753,439; Apr. 8.

Martin, Carl A., and W. Orth, Genoa, Colo. Choke-control device. 1,754,028; Apr. 8.

Martin, Cecil E., Detroit, Mich. Fire escape. 1,753,798; Apr. 8.

Martin, Rodney W., Dayton, Ohio. Cabinet kitchen. 1,753,526; Apr. 8.

Martinet, Eugene F., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. 1,753,799; Apr. 8.

Martois, Arthur E., Compton, and R. D. Pearson, Los Angeles, Calif. Unscrewing attachment for drill pipe. 1,753,244; Apr. 8.

Marvin, W. B., Manufacturing Company, The. (See Ritter, John J., assignor.)

Marvin, Walter S. (See Koenig, R., and Marvin.)

Mas, George N. Washington, D. C., assignor, by mesne assignments, to J. T. Dowling and G. R. Sappington, trustees. Bottle. Des. 80,902; Apr. 8.

Mason, James L. (See Wheeler, H. A., Bentz, and Mason.)

Master Package Corporation, The. (See Hulbert, Edwin F., assignor.)

Mastercrafts Corporation. (See Miller, Earl B., assignor.)

Matabon, Jean L., and C. M. Foucault, Lyon, France. Power-factor control of alternating-current asynchronous machines. 1,754,029; Apr. 8.

Mathews, William E., Birmingham, Ala. Reenforcement-bar support. 1,753,523; Apr. 8.

Mattson, Bernard O., Memphis, Tenn. Target. 1,754,030; Apr. 8.

Mauser, Alfons, deceased, Cologne-Marienburg, by F. Braun, Cologne, and R. Eith, Cologne-Ehrenfeld, Germany, executors. Method of and apparatus for flanging containers. 1,753,963; Apr. 8.

Mavrogenis, Aristote, Milwaukee, Wis. Electron-discharge device. Re17,640; Apr. 8.

Mawby, Fred J., Hays Township, Charlevoix County, Mich. Valve. 1,753,524; Apr. 8.

Max Ams Chemical Engineering Corporation, The. (See Brenzinger, Julius, assignor.)

Mayer, Charles A., Boston, Mass. Envelope opener. 1,753,710; Apr. 8.

Mayer, Fritz, Frankfort-on-the-Main, K. Billig, Hochst-on-the-Main, K. Horst, Hofheim-on-the-Taunus, and K. Schirmacher, Hochst-on-the-Main, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Cyclic ketones of the aromatic series and making same. 1,754,031; Apr. 8.

Mayhew, Joseph R., assignor to Mueller Co., Decatur, Ill. Lavatory. Des. 80,903; Apr. 8.

McAlpine, George R., Oklahoma City, Okla. Drag for recovering dead bodies and the like. 1,753,468; Apr. 8.

McArdle, Michael W., Chicago, Ill., and J. H. Donnellon, Evanston, Wyo. Hair clipper. 1,753,750; Apr. 8.

McDermott, Charles C., Chicago, Ill. Heater coil. 1,753,296; Apr. 8.

McDonald, John C., New York, N. Y. Electrical control system. 1,753,383; Apr. 8.

McDonald, Malcolm, Orenco, Oreg. Card-index tray. 1,753,525; Apr. 8.

McCloud, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,753,993; Apr. 8.

McCloud, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,753,994; Apr. 8.

McConkey, Walter N., Lima, Ohio. Water softener and method of preparing. 1,753,661; Apr. 8.

McCormack, Alfred D., Mankato, Minn. Screen for motor vehicles. 1,753,866; Apr. 8.

McCorn, Lee S., assignor to Remington Typewriter Company, Ilion, N. Y. Computing machine. 1,753,711; Apr. 8.

McCoy, Philip W., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Gas burner. 1,753,613; Apr. 8.

McCready, George L., Parksley, Va. Guide for vine cutters. 1,753,712; Apr. 8.

McFadden, Fay, Athol, Mass. Eye-examining instrument. 1,754,032; Apr. 8.

McGookin, George F., assignor of one-half to W. T. Hawkins, Middletown, N. Y. Combined retaining and spacing device for pipes. 1,754,033; Apr. 8.

McGowan, Harold A., Davenport, Wash. Windshield wiper. 1,753,713; Apr. 8.

McIntyre, Edna M., et al., executors. (See Cox, G. C., and McIntyre.)

McIntyre, Henry K. (See Cox, G. C., and McIntyre.)

McIntyre, John G., et al., executors. (See Cox, G. C., and McIntyre.)

McIntyre, Malcolm, et al., executors. (See Cox, G. C., and McIntyre.)

McKee, Neal T., Bronxville, assignor to American Throttle Company, Inc., New York, N. Y. Throttle-operating mechanism. 1,753,297; Apr. 8.

McKeefe, Edward P. (See Bradley, L., and McKeefe.)

McKesson & Robbins, Incorporated. (See Danco, Leon A., assignor.)

McLarty, Henry W., et al. (See Blackwell, Sanford J., assignor.)

McLaughlin, F. L., Company. (See Kiesel, Bernhard F., assignor.)

Meininghaus, Ewald, Lancaster, N. Y. Latch. 1,753,714; Apr. 8.

Melas, William, Philadelphia, Pa. Flow meter. 1,753,469; Apr. 8.

Melish, Thomas G., assignor to The Bromwell Wire Goods Company, Cincinnati, Ohio. Flour sifter. 1,753,905; Apr. 8.

Mell, Daisy W., Athens, Ga. Antirattling device. 1,754,115; Apr. 8.

Melville, Herbert J., Chicago, Ill. Waste receptacle. 1,753,210; Apr. 8.

Merker, Max, New York, N. Y. Diaphragm valve. 1,753,692; Apr. 8.

Merkle, Harry A., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Manufacture of aromatic thiasole compounds. 1,753,898; Apr. 8.

Meroussis, Nickolas, New York, N. Y. Flash-light attachment. 1,753,614; Apr. 8.

Merrick, John F., et al. (See Cushman, J. W., Everett, and Farrel, assignors.)

Merritt Engineering & Sales Company. (See Merritt, Louis G., assignor.)

Merritt, Louis G., assignor to Merritt Engineering & Sales Company, Inc., Lockport, N. Y. Gear-box brake. 1,753,384; Apr. 8.

Metal Ware Corporation. (See Koenig, R., and Marvin, assignor.)

Metropolitan-Vickers Electrical Company Limited. (See Robinson, Ernest Y., assignor.)

Metsner, Albert W. (See Sherman, J. Q., and Metsner.)

Metzner, Albert W., assignor to J. Q. Sherman, Dayton, Ohio. Manifolding. 1,754,034; Apr. 8.

Meuer, George J., Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc. Locking device for automotive vehicles and the like. 1,753,347; Apr. 8.

Meunier, Francis, Lyon Les Mons, assignor to La Soudure Electrique Autogene S. A., Brussels, Belgium. Electrode suitable for arc welding. 1,754,116; Apr. 8.

Meyer, Adolf. (See Baumann, A., and Meyer.)

Meyer, William, Chicago, Ill. Beauty-parlor chair. 1,753,470; Apr. 8.

Miesse, Richard E., Jersey City, assignor to New Process Metals Corporation, Newark, N. J. Purifying rare gases. 1,753,298; Apr. 8.

Mileometer Company, The. (See Smulski, Theodore J., assignor.)

Miles, Ernest S., Media, Pa. Toy. Des. 80,904; Apr. 8.

Miller, Earl B., assignor to Mastercrafts Corporation, Brattleboro, Vt. Automobile heater. 1,753,615; Apr. 8.

Miller, Lawrence P., Philadelphia, Pa. Resilient wheel. 1,753,527; Apr. 8.

Miller, Ned O., Amarillo, Tex. Drilling wells in gas formations. 1,753,440; Apr. 8.

Miller, Robert, Brooklyn, N. Y. Display and merchandising system. 1,753,663; Apr. 8.

Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)

Millman, David H., New York, N. Y. Bust supporter. 1,753,996; Apr. 8.

Millspaugh, William H., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Vat for paper-making machines. 1,753,800; Apr. 8.

Milne, Stuart M., Seattle, Wash. Wear-indicating apparatus. 1,753,575; Apr. 8.

Milner, Robert D. (See Schofield, W. R., jr., and Milner.)

Miner, James H., Meridian, Miss. Stalk cutter. 1,753,899; Apr. 8.

Mineral Oil Products Company. (See Bogardus, Arthur G., assignor.)

Minneapolis, Moline Power Implement Company. (See Boda, Joseph E., assignor.)

Mitchell, George W., et al. (See Borgeson, Charles A., assignor.)

Mitchell, John, London, and J. C. G. Cossey, London, England. Steam-regulator valve and the like. 1,754,174; Apr. 8.

Moeller, A. E., Company. (See Moeller, Max E., assignor.)

Moeller, Max, assignor to A. E. Moeller Company, Brooklyn, N. Y. Thermometer tube and making the same. 1,753,801; Apr. 8.

Moll, Wilhelm K., assignor to Ditto, Inc., Chicago, Ill. Duplicating machine. 1,753,442; Apr. 8.

Montgomery-Washburn Company. (See Washburn, Richard C., assignor.)

Moore, Mortimer J. P., Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Blower for powdered fuel. 1,753,986; Apr. 8.

Morall, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 80,905; Apr. 8.

Morehouse, Frank, Gloversville, N. Y. Screw driver. 1,753,441; Apr. 8.

Morgan, Charles L., Pittsburgh, Pa. Hinge. 1,754,175; Apr. 8.

Morren, William J., Hamilton, Ontario, Canada. Combination handsaw. 1,754,035; Apr. 8.

Moto Meter Gauge & Equipment Corporation. (See Cheney, Moses E., assignor.)

Moto Meter Gauge & Equipment Corporation. (See Schupp, Alfred B., assignor.)

Mott, Abram C., jr., assignor to Abram Cox Company, Lansdale, Pa. Boiler furnace. 1,754,176; Apr. 8.

Mougey, Harry C., assignor to General Motors Research Corporation, Dayton, Ohio. Finishing surfaces with cellulose nitrate lacquers. 1,753,616; Apr. 8.

Mrach, Adolfo, assignor to Societa Italiana Pirelli, Milan, Italy. Apparatus for regenerating vulcanized rubber. 1,754,177; Apr. 8.

Mueller Co. (See Mayhew, Joseph R., assignor.)

Mueller Ervin H., Detroit, Mich. Valve and manufacturing same. 1,753,833; Apr. 8.

Muffly Glenn, assignor to Copeland Products, Inc., Detroit, Mich. Refrigerating apparatus. 1,753,902; Apr. 8.

Muhlfeld, John E., Scarsdale, N. Y. Locomotive tender. 1,753,211; Apr. 8.

Muir, Joseph, assignor to The Radium Emanation Corporation, New York, N. Y. Making removable emanation seeds. 1,754,178; Apr. 8.

Münchmeyer, Georg. (See Schlueck, J., and Münchmeyer.)

Munschauer, Frederick E., assignor to Niagara Machine and Tools Works, Buffalo, N. Y. Folding machine. 1,753,212; Apr. 8.

Murray, John D., San Francisco, Calif. Tip for spraying nozzles. 1,753,448; Apr. 8.

Muskegon Manufacturing Company. (See Hills, George T., assignor.)

Myers, Robert R., Las Vegas, Nev., assignor to Clean-Be-Tween Tooth Brush Company, St. Louis, Mo. Toothbrush. 1,753,385; Apr. 8.

Myers, Wilson R., New York, N. Y., assignor to Ice Cream Snack Products Co. Article discharging and conveying apparatus for paper-cylinder-forming machines. 1,753,867; Apr. 8.

Naef, Donald L., Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind. Filtering mineral oils. 1,753,900; Apr. 8.

Narverud, Olof A., Minneapolis, Minn. Attachment for pencil sharpeners. 1,753,275; Apr. 8.

Nash, Benjamin S., Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio. Ticking. Des. 80,906; Apr. 8.

Nash, Charles J., Chicago, Ill., assignor to Universal Draft Gear Attachment Co. Shock absorber. 1,753,937; Apr. 8.

National Air-Lub Products Incorporated. (See Buchet, Conrad R., assignor.)

National Cash Register Company, The. (See Robertson, William H., assignor.)

National Cedarchex Corporation. (See Winchester, Carey C., assignor.)

National Rail Joint Corporation. (See Wilbur, Lawrence S., assignor.)

Nava, Vincenzo. (See Alessi, Frank, assignor.)

Neal, Daniel, assignor to J. Whitehead, Otley, England. Device for removing the valves from internal-combustion engines. 1,753,245; Apr. 8.

Neinfeldt, Emil, St. Paul, Minn. Radioaerial. 1,753,213; Apr. 8.

Nelson, John, assignor to Automatic Washer Company, Newton, Iowa. Wringer head for washing machines. 1,753,528; Apr. 8.

Neuberger, Franklin H., Endicott, assignor of one-tenth to E. J. Brand, Jeffersonville, N. Y. Clothesline fastener. 1,753,901; Apr. 8.

Nevills, John J., Sacramento, Calif. Treating fruits and vegetables. 1,753,902; Apr. 8.

Newdick, Norton A., assignor to The Coloder Company, Columbus, Ohio. Loading machine. 1,753,246; Apr. 8.

New Haven Sand Blast Company, The. (See Sammis, Donald S., assignor.)

New Process Metals Corporation. (See Miesse, Richard E., assignor.)

Newsom, James B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Monitoring system. 1,753,543; Apr. 8.

Newton, Joseph E., Roseville, Calif. Electromagnetic hydrocarbon accelerator. 1,753,617; Apr. 8.

Niagara Machine and Tool Works. (See Munschauer Frederick E., assignor.)

Nicholas, William, assignor to The Black Rock Manufacturing Company, Bridgeport, Conn. Rubber-tube-trimming machine. 1,753,590; Apr. 8.

Nicolson, Alexander M., New York, N. Y., assignor, by mesne assignments, to Federal Telegraph Company. Internally-clamped composite piezo-electric acoustic device. 1,753,812; Apr. 8.

Nielsen, Andreas C. (See Brown, C. A., and Nielsen.)

Noah, Floyd T., Greensboro, N. C. Spinning stop motion. 1,753,247; Apr. 8.

Norbeck, Emil T., Minneapolis, Minn. Frost shield. 1,753,618; Apr. 8.

Norberg, John E., San Francisco, Calif. Color chart. 1,753,619; Apr. 8.

Norton-Lasier Company. (See Lasier, David E., assignor.)

Norviel, Harry E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Switching apparatus for steering-column controls. 1,753,576; Apr. 8.

Norviel, Harry E., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,753,620; Apr. 8.

Norviel, Harry E., and V. Ecoff, Madison, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,753,621; Apr. 8.

Norwood, Harry G., Baltimore, Md., assignor to The Positive Lock Washer Company, Newark, N. J. Noninterlinking nut-lock washer. 1,753,313; Apr. 8.

Noto, Louis M., Chicago, Ill. Hairdressing device. 1,753,314; Apr. 8.

Novinsky, Roman A., and E. O. Barton, New York, N. Y. Match package. 1,754,036; Apr. 8.

Nutt, Harry G., Altadena, Calif., assignor, by mesne assignments, to Selector Corporation, Salt Lake City, Utah. Fruit-vending apparatus. 1,753,248; Apr. 8.

Nystedt, Sigfred A., Storm Lake, Iowa. Vending machine. 1,754,037; Apr. 8.

Odell, Aubrey D. (See Reed, T. C., and Odell.)

Ohio Sanitary Engineering Corporation, The. (See Travers, J. T., and Urbain, assignors.)

Ohio Sanitary Engineering Corporation, The. (See Travers, J. T., Lewis, and Urbain, assignors.)

Ohio Steel Foundry Company, The. (See Pierce, Elwood K., assignor.)

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,753,444; Apr. 8.

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,753,445; Apr. 8.

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Signaling system. 1,753,446; Apr. 8.

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Short-wave radio signaling system. 1,753,715; Apr. 8.

Oilgear Company, The. (See Ferris, John P., assignor.)

Oliphant, Laurence, Trenton, N. J., assignor to Oxweld Acetylene Company. Acetylene generator. 1,753,529; Apr. 8.

Oneida Community, Limited. (See Burnham, Chester W., assignor.)

Opperman, Frederick, Greenwich, Conn. Flushing apparatus. 1,753,997; Apr. 8.

Orndorff, Herbert W., assignor to The E. V. Benjamin Co., Inc., New Orleans, La. Folding device. 1,754,038; Apr. 8.

Orth, William. (See Martin, C. A., and Orth.)

Oster Manufacturing Company, The. (See Hyde, R. E., and Scheppl, assignors.)

Owen, Jack M., Long Beach, Calif. Mixer for cement. 1,753,716; Apr. 8.

Owens, Charles E., Washington, D. C. Filtering funnel. Re17,641; Apr. 8.

Owens Development Corporation. (See Owens, Freeman H., assignor.)

Owens, Freeman H., New York, N. Y. Talking-picture apparatus. 1,753,530; Apr. 8.

Owens, Freeman H., assignor to Owens Development Corporation, New York, N. Y. Photographic camera. 1,753,623; Apr. 8.

Oxweld Acetylene Company. (See Oliphant, Laurence, assignor.)

P & M Company, The. (See Shepherd, Charles B., assignor.)

Paas Dye Company. (See Townley, Stephen B. and P. B., and Laing, assignors.)

Pacini, August J., assignor to C. M. Richter, Chicago, Ill. Reducing the poisonous effects of nicotine and the product thereof. 1,754,117; Apr. 8.

Packard Electric Company, The. (See MacGregor, Basil N., assignor.)

Packard Motor Car Company. (See Weinhardt, Robert A., assignor.)

Page, Fredk., Contracting Company, The. (See Heitman, Herbert, assignor.)

Paige, William E., Broomhill, and J. H. Hanson, Holmlea, England. Tool-holding socket. 1,753,471; Apr. 8.

Paltrowitz, Harry, assignor to Altmar Steel Products Company, Inc., New York, N. Y. Pipe sleeve. 1,753,286; Apr. 8.

Pan Electric Manufacturing Corporation. (See Eaton, George, assignor.)

Paper & Textile Machinery Company, The. (See Millspaugh, William H., assignor.)

Pardee, Robert J., Cleveland Heights, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio. Drawing press. 1,753,717; Apr. 8.

Parent, Gaston, Paris, France. Vanity case. 1,753,315; Apr. 8.

Parflow, Alfred, Lincoln Park, Mich., assignor to Vorclone Corporation, Milwaukee, Wis. Extractor. 1,753,215; Apr. 8.

Patent Novelty Company. (See Cowan, Archibald D., assignor.)

Patent Product Corporation of Chicago. (See Macomic, Chester A., assignor.)

Pattison, Merrill R., Seattle, Wash. Toy machine gun. Des. 80,907; Apr. 8.

Paul, Stephen, Lansing, Mich. Tie-rod fastening. 1,753,426; Apr. 8.

Pawlick, Otto A., West Orange, and R. C. Giese, East Orange, N. J. Apparatus for measuring and indicating efficiencies. 1,754,039; Apr. 8.

Paxton, Sherman H., assignor to Jay Manufacturing Co., Los Angeles, Calif. Lubricator. 1,753,718; Apr. 8.

Pearson, Gustav C., assignor to Gardner-Denver Company, Denver, Colo. Tool retainer. 1,753,249; Apr. 8.
Pearson, Robert D. (See Martois, A. E., and Pearson.)
Peart, Frederick L. (See Lunney, A. P., and Peart.)
Peelle, Charles W., New York, assignor to The Peelle Company, Brooklyn, N. Y. Center lock for counterbalanced elevator doors. 1,753,664; Apr. 8.
Peelle Company, The. (See Peelle, Charles W., assignor.)
Peirce, Charles L., jr., Pittsburgh, Pa., assignor of one-half to Hubbard and Company. Guy rod and making it. 1,753,216; Apr. 8.
Pemberton, Us C., Seffner, and J. B. Johnson, Tampa, Fla. Artificial bait. Des. 80,908; Apr. 8.
Peperkorn, Heinrich. (See Hartmann, O. H., and Peperkorn.)
Perfection Faucet Mfg. Corporation. (See Schimmel, Lloyd G., assignor.)
Perfex Corporation. (See MacLeod, Daniel T., assignor.)
Perkins, B. F., & Son, Inc. (See Hamilton, John H., assignor.)
Perkins, Julian L., West Springfield, and H. D. Croft, Springfield, assignors to Perkins Machine and Gear Company, West Springfield, Mass. Oil-circulating system. 1,754,040; Apr. 8.
Perkins Machine and Gear Company. (See Perkins, J. L., and Croft, assignors.)
Perks, George W., assignor to J. R. Gammeter, Akron, Ohio. Traction device. 1,753,349; Apr. 8.
Permachrome Process Corporation. (See Bedo, Joseph, assignor.)
Peters, Arthur W., Rockford, Ill. Cartridge adapter. 1,753,472; Apr. 8.
Peters, Louis H., Oakland, Calif. Can-testing machine. 1,753,903; Apr. 8.
Peterson, Arvid, assignor to De Laval Steam Turbine Company, Trenton, N. J. Disconnecting coupling. 1,753,300; Apr. 8.
Peterson, Frederick W., Brooklyn, N. Y., assignor to Horton Sweets Co. Inc., Ridgefield, N. J. Carton or similar container. Des. 80,909; Apr. 8.
Peterson, George H. (See Hague, A. E., and Peterson.)
Petrak, George, Quincy, Wash. Oil can. 1,754,041; Apr. 8.
Petrunin, Charles, Toledo, Ohio. Aeroplane. 1,753,938; Apr. 8.
Pew, Arthur E., jr., Bryn Mawr, assignor to Sun Oil Company, Philadelphia, Pa. Level indicator for mineral-oil stills. 1,753,803; Apr. 8.
Pew, Ralph W. (See Earl, H. J., Pew and Tjaarda.)
Philadelphia Lawn Mower Company Inc. (See Coldwell, Harry T., assignor.)
Philadelphia Storage Battery Company. (See Holland, W. E., and Earnshaw, assignors.)
Philippe, Edward C., Brooklyn, N. Y. Fixture for roller screens or shades. 1,753,751; Apr. 8.
Phillips, John H., Pittsburgh, Pa. Wading tank. 1,753,427; Apr. 8.
Piccardo, Cesare, Genoa, Italy. Filtering and decanting apparatus. 1,753,577; Apr. 8.
Piekos, Tadeusz, West Lynn, assignor of one-half to Scepan Baczewski, Lynn, Mass. Dough-cutting machine. 1,753,217; Apr. 8.
Pierce, Elwood K., Springfield, assignor to The Ohio Steel Foundry Company, Lima, Ohio. Pipe-bend plug. 1,753,387; Apr. 8.
Pierson, Reginald K., and T. S. Duncan, assignors to Vickers Limited, Westminster, England. Hydraulic power-transmitting apparatus. 1,754,118; Apr. 8.
Pike, Robert D., Oakland, Calif. Manufacture of di-calcium phosphate. 1,753,478; Apr. 8.
Pink, Frank, Portsmouth, England. Apparatus for separating liquids of different densities. 1,754,119; Apr. 8.
Pioneer Butter Wrapping Machine Company. (See Ratliff, George D., assignor.)
Pitschner, Karl, Bridgeport, Conn., assignor to American Chain Company, Inc. Testing metallic coatings. 1,753,301; Apr. 8.
Pittsburgh Plate Glass Company. (See Halbach, Howard L., assignor.)
Piszutiello, Henry, et al. (See Corbi, Joseph L., assignor.)
Plummer, Clayton E., La Grange, Ill., assignor to Electro Metallurgical Company. Acid-resistant alloy. 1,753,904; Apr. 8.
Podel, Abraham, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Lacquering machine and oven. 1,753,998; Apr. 8.
Podel, Abraham, Bronx, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Hermetically-sealed package and method of sealing. 1,753,999; Apr. 8.
Poeppelmeier, Frank H., assignor to The Typographic Machines Company, Dayton, Ohio. Indexing mechanism for chase plates and printing segments. 1,753,428; Apr. 8.
Polster, John P., assignor to Illinois Stoker Company, Alton, Ill. Rotary pivoted hammer. 1,753,473; Apr. 8.
Polster, John P., assignor to Illinois Stoker Company, Alton, Ill. Mill pulverizer. 1,753,474; Apr. 8.
Polster, John P., assignor to Illinois Stoker Company, Alton, Ill. Rotary pivoted hammer. 1,753,475; Apr. 8.
Pönisch, Max, Leipzig-Leutzsch, Germany. Machine for producing seamless bodies, sweetmeats, and others from plastic masses. 1,753,834; Apr. 8.
Porché, Julien H., Paris, assignor to Societe des Meubles Superposables, Societe à Responsabilite Limitee, Gennevilliers, Seine, France. Pieces of furniture capable of being superposed. 1,753,623; Apr. 8.
Port, Sidney D., Saxton, Pa. Connecting link for chains. 1,754,042; Apr. 8.
Port, Sidney D., Saxton, Pa. Connecting link for chains. 1,754,043; Apr. 8.
Positive Lock Washer Company, The. (See Norwood, Harry G., assignor.)
Potter, William B., Schenectady, N. Y., assignor to General Electric Company. Sound-producing device. 1,754,044; Apr. 8.
Powell, Joseph M., Brooklyn, Ind. Shale planer. 1,753,804; Apr. 8.
Powell, Lawrence A., Fort Myers, Fla. Top-locking means for caskets, shipping cases, and the like. 1,754,045; Apr. 8.
Power Specialty Company. (See Bell, John E., assignor.)
Prachar, John, assignor, by mesne assignments, to Central National Bank of Cleveland, trustee, Cleveland, Ohio. Ironing machine. 1,753,939; Apr. 8.
Prachar, John, assignor, by mesne assignments, to Central National Bank of Cleveland, trustee, Cleveland, Ohio. Ironing machine. 1,753,964; Apr. 8.
Prentiss, J. O., et al. (See Taylor, Hamblen A., assignor.)
Prescott, Frank H., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Electric switch. 1,753,624; Apr. 8.
Price, William B. (See Shields, E. H., and Suetterlin, assignors.)
Prince, Robert K., Westfield, Mass., assignor to Vitamin Food Co., Inc., New York, N. Y. Vitamin compound. 1,753,531; Apr. 8.
Prior, Walter, jr., et al. (See Camfield, William H., assignor.)
Process Casting Company, The. (See Leary, James P., assignor.)
Process Engineers, Inc. (See De Cew, Judson A., assignor.)
Projahn, Karl F., Aschaffenburg, assignor to the firm: Löwenthal & Weissberger, G. m. b. H., Frankfort-on-the-Main, Germany. Pyrophoric hand lighter. 1,753,885; Apr. 8.
Puncer, Mary, et al. (See Drahonovsky, John B., assignor.)
Purcell, William F. (See Hiltz, G. S., and Purcell.)
Quinn, Thomas, and J. F. Aites, Rimersburg, Pa. Valve for wells. 1,753,276; Apr. 8.
Radium Emanation Corporation, The. (See Muir, Joseph, assignor.)
Rafferty, Charles D., Sault Ste. Marie, Ontario, Canada. Locomotive-whistle-operating mechanism. 1,754,046; Apr. 8.
Ragsdale, Earl J. W., Norristown, assignor to Budd Wheel Company, Philadelphia, Pa. Brake-control mechanism. 1,753,966; Apr. 8.
Raiche, Harvey O. (See Linn, C. W., Bigelow, and Raiche.)
Ralph, Edward D., Floral Park, Long Island, N. Y. Apparatus and method of making dentures. 1,753,965; Apr. 8.
Ramm, Karl, New Britain, Conn. Wind rotor. 1,753,302; Apr. 8.
Randall, Meredith S. (See Woodall, H. J., and Randall.)
Rankin, William K., Scotia, N. Y., assignor to General Electric Company. Straight-line motion mechanism. 1,754,179; Apr. 8.
Ransom and Company et al. (See Blackwell, Sanford J., assignor.)
Ratliff, George D., St. Louis, Mo., assignor to Pioneer Butter Wrapping Machine Company, Jackson, Miss. Wrapping machine. 1,753,868; Apr. 8.
Raymond, Gwynne, Kansas City, Mo. Plate-conveying hook. 1,753,578; Apr. 8.
Reaves, John S., Philadelphia, Pa. Counting and grouping machine. 1,754,047; Apr. 8.
Reck, Maurus C., assignor to Sterling Range & Furnace Corporation, Rochester, N. Y. Broiler rack. 1,753,719; Apr. 8.
Redeker, Siegfried. (See Korte, A. C., Redeker, and Mahnke.)
Reece Folding Machine Company. (See Dixon, Walter L., assignor.)
Reece, Joseph A., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Down-flow slab. 1,753,805; Apr. 8.
Reed, Sadie B., New York, N. Y. Ice block and mold for forming same. 1,753,940; Apr. 8.
Reed, Thomas C., Covington, Ky., and A. D. Odell, Cincinnati, Ohio, assignors to American Telephone and Telegraph Company. Preparing insulating sleeves. 1,753,869; Apr. 8.
Reid, James, deceased, Watertown, A. M. Leahy, Somerville, and C. G. Lutts, Salem, Mass.: M. S. Reid, executrix. Manufacture of chains. 1,753,941; Apr. 8.
Reid, James, deceased, by M. S. Reid, administratrix, Watertown, A. M. Leahy, Somerville, and C. G. Lutts, Salem, Mass. Die for the manufacture of chains. 1,753,942; Apr. 8.
Reid, Margaret S., administratrix. (See Reid, J., Leahy, and Lutts.)
Reid, William C., Oakland, Calif. Washing machine. 1,753,752; Apr. 8.
Reid, William L., and F. J. Bascombe, Lima, Ohio. Method and apparatus for testing rods. 1,753,532; Apr. 8.

Reimold, Fred W., Newark, N. J. Releasing coupling. 1,754,048; Apr. 8.
Reiter, Daniel I., New York, N. Y. Snap-fastener socket. 1,753,218; Apr. 8.
Remde, Edward H., assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck and attachment therefor. 1,753,720; Apr. 8.
Remington Arms Company. (See Fuller, Frederick L., assignor.)
Remington Arms Company. (See Rice, Raymond E., assignor.)
Remington Rand Inc. (See Davis, Elmer W., assignor.)
Remington Typewriter Company. (See McCorn, Lee S., assignor.)
Renn, Harold V. E. M. (See Wardley, T., and Renn.)
Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 1,753,943; Apr. 8.
Replogle, John R., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Air-cooled refrigeration apparatus. 1,753,944; Apr. 8.
Replogle, John R., assignor to Kelvinator Corporation, Detroit, Mich. Thermostat controller. 1,753,945; Apr. 8.
Replogle, John R., assignor to Kelvinator Corporation, Detroit, Mich. Lid for refrigerating cabinets. 1,753,946; Apr. 8.
Republic Brass Company, The. (See Bloch, Leon, assignor.)
Reule, Michael, Charleston, Ill. Automatic control for electric sirens. 1,753,579; Apr. 8.
Revere Rubber Company. (See Bannister, Allan S., assignor.)
Reynolds, Richard S., assignor to United States Fuel Company, Louisville, Ky. Roofing. 1,753,803; Apr. 8.
Rice, John A., Berkeley, Calif., assignor to The Bubble-stone Company, Pittsburgh, Pa. Apparatus for producing foam. 1,753,429; Apr. 8.
Rice, Harold G., Chicago, Ill. Bottle capper. 1,754,000; Apr. 8.
Rice, Raymond E., Ilion, N. Y., assignor to Remington Arms Company, Inc. Cash register. 1,753,200; Apr. 8.
Richard, William E., assignor to Sunbeam Electric Manufacturing Company, Evansville, Ind. Dynamo-electric machine. 1,753,538; Apr. 8.
Richardson Company, The. (See Keller, Charles L., assignor.)
Richer, Joseph R., Oak Park, Ill. Rotary pump or blower. 1,753,476; Apr. 8.
Richey, Leon T. (See Doty, A. S., and Richey.)
Richter, Charles M. (See Pacini, August J., assignor.)
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic-shutter-blade-actuating mechanism. 1,754,202; Apr. 8.
Riddle, Grant. (See Hammock, H., and Riddle.)
Ridlon, George H. (See Sharp, W. E., Sandstrom, and Ridlon.)
Riebeck'sche, A., Montanwerke Aktiengesellschaft. (See Zechoch, F., and Rodrian, assignors.)
Rieckhof, Christian, Darmstadt, Germany. Determining the action of forces upon static constructions. 1,754,049; Apr. 8.
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 80,910; Apr. 8.
Riley, Frank, et al. (See Thexton, J., jr., and Tomlinson, assignors.)
Rip Van Winkle Wall Bed Company. (See Sinclair, Neil, assignor.)
Ritter, John J., assignor to The W. B. Marvin Manufacturing Company, Urbana, Ohio. Ventilator for windows. 1,753,477; Apr. 8.
Rivera, Napoleon R., Ashtabula, Ohio. Wrench. 1,754,050; Apr. 8.
Robert de Courseulles, assignor of one-half to Schneider & Cie., and one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Loading device for semiautomatic naval guns. 1,753,850; Apr. 8.
Robertson, Robert R., Chicago Heights, Ill. Contraction-joint stake. 1,753,816; Apr. 8.
Robertson, William H., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Elastic drive for cash registers. 1,753,479; Apr. 8.
Robeson-Rochester Corporation. (See Cross, F. J., and Schott, assignors.)
Robinson, Ernest Y., Withington, Manchester, England, assignor to Metropolitan-Vickers Electrical Company, Limited. Vacuum electric tube. 1,754,120; Apr. 8.
Robinson, Thomas, assignor to Anaconda Sales Company, New York, N. Y. Metal-protected roofing element and making the same. 1,753,721; Apr. 8.
Robinson, Thomas, Everett, Wash., assignor to The Coe Manufacturing Company, Painesville, Ohio. Veneer trimmer. 1,753,967; Apr. 8.
Rocholl, Valentine C., Fort Wayne, Ind. Door support. 1,753,480; Apr. 8.
Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
Rodrian, Herbert. (See Zechoch, F., and Rodrian.)
Roessler & Hasslacher Chemical Company, The. (See Cambron, Adrien, assignor.)
Rolfsen, Ole, Knivso, near Halden, Norway. Rock-cutting tool. 1,753,969; Apr. 8.
Rolfsen, Ole, Knivso, near Halden, Norway. Hammer head for rotating rock-cutting tools. 1,753,970; Apr. 8.
Roos, Wendel V., New York, N. Y. Collapsible tube. 1,753,665; Apr. 8.
Rosenberg, Friedrich, Spandau, Germany, assignor to General Electric Company. Welded joint. 1,754,051; Apr. 8.
Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture or article of similar nature. Des. 80,911; Apr. 8.
Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture or article of similar nature. Des. 80,912; Apr. 8.
Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture or article of similar nature. Des. 80,913; Apr. 8.
Rosner, Adolph. (See Schwarsmann, W. E., and Rosner.)
Ross, Edward A., Chicago, Ill. Making laminated fabric. 1,753,806; Apr. 8.
Ross, Justus J., Huntington, W. Va. Reenforced mine tie. 1,753,534; Apr. 8.
Rossman, Allen M., assignor, by mesne assignments, to Rossman Patents, Incorporated, Chicago, Ill. Bus and switch station. 1,753,219; Apr. 8.
Rossman Patents, Incorporated. (See Rossman, Allen M., assignor.)
Root, Ralph R., Lakewood, Ohio. Gas-controlling device. 1,753,968; Apr. 8.
Rosenthal, Leo, Vohwinkel, and W. Kropp, Elberfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Compound from indene and phenols. 1,754,052; Apr. 8.
Rotary Printing Company, The. (See Willard, Louis J., assignor.)
Rothen, Edward M., assignor to Russell & Stoll Company, New York, N. Y. Quick-break switch. 1,753,817; Apr. 8.
Rowse, Frank J., Pawtucket, R. I. Coin-operated vending machine. 1,753,481; Apr. 8.
Roy, Wilfred J., East Orange, N. J., assignor to Gemex Company, Newark, N. J. Bracelet chain. 1,753,971; Apr. 8.
Royal Typewriter Company. (See Dowd, Bernard J., assignor.)
Rubber Service Laboratories Company, The. (See Merkle, Harry A., assignor.)
Rudd, Seth G. (See Higgins, A. W., and Rudd.)
Rudolph, Wilhelm. (See du Bois-Reymond, A., and Rudolph.)
Ruggiero, Antonio L. (See Galterio, E., Mariotti, and Ruggiero.)
Ruggles, Horace F., Brooklyn, N. Y. Hoisting and weighing means. 1,753,753; Apr. 8.
Runne, Ernst. (See Wagner, H., Hoffa, Runne, Thoma, and Heyna.)
Russell & Stoll Company. (See Rothen, Edward M., assignor.)
Ryder, Ambrose, Carmel, N. Y. Umbrella, parasol, and the like. 1,753,666; Apr. 8.
Sabbah, Camil A., Schenectady, N. Y., assignor to General Electric Company. Apparatus for measuring pressure. 1,754,180; Apr. 8.
Saccaggio, Pedro C., Buenos Aires, Argentina. Control mechanism for power-transmission gearing. 1,754,181; Apr. 8.
Safford, Clarence E., assignor to A. H. Greeley, Cleveland, Ohio. Heat-exchange apparatus. 1,753,818; Apr. 8.
St. Regis Paper Company. (See Kronmiller, Carl G., assignor.)
Salter, George, and Company Limited. (See Bache, E. W., and Grice, assignors.)
Sammis, Donald S., Stratford, assignor to The New Haven Sand Blast Company, New Haven, Conn. Feed apparatus. 1,754,121; Apr. 8.
Sandstrom, George F. (See Sharp, W. E., Sandstrom, and Ridlon.)
Sandt, Julius, Pirmasens, Germany. Shoe machine. 1,753,836; Apr. 8.
Saner, R. E. L. (See Cushman, J. W. Everett, and Farrell, assignors.)
Sappington, G. Ridgely, et al., trustees. (See Mas, George N., assignor.)
Sauer, Louis J., Oak Park, and C. H. Joy, jr., assignors to C. H. Joy, sr., Chicago, Ill. Forming bearings. 1,753,837; Apr. 8.
Sauers, Henry. (See Briggs, A. L., and Sauers.)
Saunders, John B., and J. Kranig, Park Falls, Wis. Window structure. 1,754,122; Apr. 8.
Sauveur, Harry, Hannover-Wulfel, Germany. Regulator for controlling fluid pressure in submerged machines. 1,753,625; Apr. 8.
Schaffer, Isidor M., Brooklyn, N. Y., assignor to Max Schaffer Co., Inc. Globe for lighting fixtures. Des. 80,914; Apr. 8.
Schaffer, Max, Co. (See Schaffer, Isidor M., assignor.)
Schapiro, Simon, New York, N. Y. Two-sided window-cleaning device. 1,753,947; Apr. 8.
Schappi, Daniel. (See Hyde, R. E., and Schappi.)
Scharf, Jacob S., New York, N. Y. Garment hanger. 1,753,667; Apr. 8.
Schaum, Carl, Wyncote, assignor to Fletcher Works, Philadelphia, Pa. Support for centrifugals. 1,753,722; Apr. 8.
Schellens, Eugene L., Pointe Claire, Quebec, Canada, assignor to Franklin Railway Supply Company. Power-amplifying machine. 1,753,870; Apr. 8.
Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Comin, jr., Lisbon, N. H., assignors, by mesne assignments, to C-S Engineering Company. Locomotive front end. 1,753,905; Apr. 8.

Schellens, Eugene L., Pointe Claire, Quebec, Canada, and J. S. Coffin, jr., Lisbon, N. H., assignors, by mesne assignments, to C-S Engineering Company. Locomotive draft appliance. 1,753,906; Apr. 8.

Scherer, John R., Detroit, Mich., assignor to The Abbey-Scherer Company. Rear door for vehicle bodies. 1,753,907; Apr. 8.

Schimmel, Abraham A., Brookline, Mass. Slip cover. 1,753,668; Apr. 8.

Schimmel, Abraham A., Brookline, Mass. Slip cover. 1,753,669; Apr. 8.

Schimmel, Lloyd G., Los Angeles, Calif., assignor to Perfection Faucet Mfg. Corporation. Faucet. 1,753,535; Apr. 8.

Schirmacher, Karl. (See Mayer, F., Billig, Horst, and Schirmacher.)

Schlaegel, Daniel H., Wadena, Minn. Detachable battery terminal. 1,754,053; Apr. 8.

Schlaepfer, Hans A. (See Bornand, E., and Schlaepfer.)

Schlinck, Julius, and G. Münchmeyer, Hamburg, Germany Manufacture of hornlike material. 1,753,626; Apr. 8.

Schmidt'sche Heissdampf-G. m. b. H. (See Hartmann, O. H., and Peperkorn, assignors.)

Schneider & Cie. et al. (See de Courseulles, Robert, assignor.)

Schnell, William, and W. H. Hollindale, assignors to Ternstedt Manufacturing Company, Detroit, Mich. Rear corner light for an automotive vehicle. Des. 80,915; Apr. 8.

Schofield, William R., jr., and R. D. Milner, assignors to Leeds & Northrup Company, Philadelphia, Pa. Control of proportions of components of gaseous mixtures. 1,753,319; Apr. 8.

Scholtus, Peter, Detroit, Mich. Tire chain. 1,753,383; Apr. 8.

Schott, Howard H. (See Cross, F. J., and Schott.)

Schrey, John P., Pittsburgh, Pa. Electric toy fence. 1,754,123; Apr. 8.

Schudel, George J., Nitro, W. Va., assignor, by mesne assignments to Elko Chemical Company. Manufacture of phosphorous oxychloride and thionyl chloride. 1,753,754; Apr. 8.

Schuler, L., A.-G. Werkzeugmaschinenfabrik. (See Glaser, O., and Flemnitz, assignors.)

Schupp, Alfred B., Richmond Hill, assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Nickel-plating apparatus. 1,753,350; Apr. 8.

Schutz, Joseph M., Chicago, Ill., assignor, by mesne assignments, to Centrifix Corporation, Cleveland, Ohio. Centrifugal apparatus. 1,753,972; Apr. 8.

Schwarze, Herman, Pontiac, assignor to General Motors Corporation, Detroit, Mich. Theft-preventing device. 1,753,580; Apr. 8.

Schwarzmann, Wolfgang E., Longmeadow, and A. Rosner, Springfield, Mass., assignors, by mesne assignments, to The Electric Auto-Lite Company. Cable terminal. 1,753,627; Apr. 8.

Schwechten, Wilhelm, Berlin-Lichterfelde, Germany. Bridge for pianos. 1,753,389; Apr. 8.

Schweitzer, Caroline, et al. (See Drahonovsky, John B., assignor.)

Schweitzer, Joseph, et al. (See Drahonovsky, John B., assignor.)

Schweizer, Ernst, Basel, Switzerland. Machine for making spools or bobbins. 1,753,628; Apr. 8.

Schworetzky, Gustav, Esslingen A. N., Germany, assignor, by mesne assignments, to Jffa Ges. m. b. H., Berlin, Germany. High-pressure gas-developing cartridge. 1,753,871; Apr. 8.

Scimonelli, Antonio, Brooklyn, N. Y. Adjustable shoe tree. 1,753,908; Apr. 8.

Scott & Williams, Incorporated. (See Allen, John M., assignor.)

Scott & Williams, Inc. (See Elliott, Frank L., assignor.)

Scovel, John C., jr., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Automatic pressure-control valve. 1,753,536; Apr. 8.

Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)

Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)

Scovill Manufacturing Company. (See Janes, Edmund D., assignor.)

Seabury, Ralph L., Toledo, Ohio, assignor to Delco-Remy Corporation, Anderson, Ind. Bearing and making same. 1,753,581; Apr. 8.

Seeger, Edwin W., South Milwaukee, assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis. Motor-control system for elevators and the like. 1,753,351; Apr. 8.

Seeley, Fay L., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Nonadjustable holddown. 1,753,838; Apr. 8.

Seidell, Le Roy, and G. B. Jack, jr., New York, assignors, by mesne assignments, to Jaton Manufacturing Corporation, Brooklyn, N. Y. Treating fabrics. 1,753,447; Apr. 8.

Seiffert, Franz, & Co. Aktiengesellschaft. (See Seiffert, Franz, assignor.)

Seiffert, Franz, assignor to the firm Franz Seiffert & Co. Aktiengesellschaft, Berlin, Germany. Valve. 1,753,723; Apr. 8.

Selector Corporation. (See Nutt, Harry G., assignor.)

Selva, James, New York, N. Y. Toe-dancing shoe. 1,754,054; Apr. 8.

Selvig, John N., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and mechanism for working fibrous material. 1,753,948; Apr. 8.

Senter, Frank G., Portland, Me. Compass. 1,754,055; Apr. 8.

Shafer-Halligan-Compton, Inc. (See Shafer, Willis D., assignor.)

Shafer, Willis D., assignor to Shafer-Halligan Compton, Inc., Chicago, Ill. Coin-controlled clock. 1,753,949; Apr. 8.

Sharp, Frederick E., Prescott, Wash. Leveling device for tractors. 1,753,807; Apr. 8.

Sharp, William E., and G. F. Sandstrom, Chicago, Ill., and G. H. Ridlon, South Whitley, Ind.; said Sandstrom and Ridlon assignors to said Sharp. Deflecting machine. 1,753,250; Apr. 8.

Shaw, Harold F., assignor to F. A. Whitney Carriage Company, Leominster, Mass. Hood. 1,753,629; Apr. 8.

Shaw, Wallace W., Chicago, Ill. Automatic backwater valve. 1,753,724; Apr. 8.

Sheer, H. M., Company. (See Stollberg, Walter C., assignor.)

Shepherd, Charles B., New York, N. Y., assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,753,755; Apr. 8.

Sherburne, Gardner. (See Howell, W., and Sherburne.)

Sherman, John Q. (See Metzner, Albert W., assignor.)

Sherman, John Q., and A. W. Metzner, Dayton, Ohio, assignors to The Standard Register Company. Manifolding device. 1,754,057; Apr. 8.

Shields, Elmer H., and O. E. Suetterlin, assignors of one-third to W. B. Price, Maryville, Mo. Oil-change indicator. 1,754,191; Apr. 8.

Short, Charles R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Brake. 1,753,582; Apr. 8.

Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Spring shackle. 1,753,808; Apr. 8.

Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Oil filter. 1,753,809; Apr. 8.

Shufflebarger, William H., Indianapolis, Ind. Sole-cementing machine. 1,754,056; Apr. 8.

Siemens & Halske Aktiengesellschaft. (See Anders, Otto, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Becker, Ernst, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Becker, Hans, assignor.)

Siemens Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Espe, Werner, assignor.)

Signal Gesellschaft m. b. H. (See du Bois-Reymond, A., and Rudolph, assignors.)

Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Wall bed. 1,753,304; Apr. 8.

Sinclair Refining Company. (See Isom, Edward W., assignor.)

Sjöström, Ivar L., assignor to Manufacturers' Machine Company, North Andover, Mass. Method and apparatus for finishing fabrics. 1,753,251; Apr. 8.

Skelly, William J. (See Jackson, Thaddeus A., assignor.)

Skelton, Owen B., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Rear motor support. 1,753,839; Apr. 8.

Skentelbery, Charles, Denmark Hill, and G. R. Alden, Westminster, England. Distribution means for purulent material. 1,754,124; Apr. 8.

Skinner Engine Company. (See Gorr, Walter B., assignor.)

Sleeper, Frank H., Worcester, and W. H. Blount, West Brookfield, assignors to Sleeper & Hartley, Inc., Worcester, Mass. Take-up machine. 1,753,950; Apr. 8.

Sleeper & Hartley, Inc. (See Sleeper, F. H., and Blount, assignor.)

Slingluff, Eugene, sr. (See Adams, W. S., and Slingluff.)

Sloan & Company. (See MacDonald, Allan A., assignor.)

Slusher, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-building apparatus. 1,753,975; Apr. 8.

Small, Chesley T., St. Louis, Mo. Hoisting and tilting truck for tanks. 1,753,756; Apr. 8.

Smith, A. O., Corporation. (See Strenau, Richard, assignor.)

Smith, Charles S., Milwaukee, by judicial decree of distribution and assignment, to G. M. Smith, trustee, Shorewood, Wis. Machine for truing grinding wheels. 1,753,448; Apr. 8.

Smith, Edward A., West Englewood, N. J. Snow removal. 1,753,757; Apr. 8.

Smith, Galbraith M., trustee. (See Smith, Charles S., by judicial decree of distribution and assignment.)

Smith, George A., Springfield, Ohio. Dental plate and the method of constructing same. 1,754,058; Apr. 8.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,753,670; Apr. 8.

Smith, Perry C., Bronxville, N. Y., assignor to The Trenton Potteries Company, Trenton, N. J. Urinal. Des. 80,928; Apr. 8.

Smith, Stanley C., London, England. Electrolytic recovery of metals. 1,754,125; Apr. 8.

Smulski, Theodore J., assignor to The Milecometer Company, Chicago, Ill. Road indicator. 1,753,758; Apr. 8.

Smygel, Joseph M., St. Joseph, Mo. Power take-off. 1,753,727; Apr. 8.

Società Italiana Pirelli. (See Mrach, Adolfo, assignor.)

Societe des Meubles Superposables, Societe à Responsabilite Limitee. (See Porché, Julien H., assignor.)

Societe Industrielle des Procédés W. A. Loth. (See Loth, William A., assignor.)

Solomon, Samuel, and L. Levine, New York, N. Y. Rack for garments and the like. 1,753,725; Apr. 8.

Sopp, Anna, Brooklyn, N. Y. Decorative toy poddle dog. Des. 80,916; Apr. 8.

Sosinski, Paul P., assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 1,753,726; Apr. 8.

Soule, George M. (See Ahlm, C. E. F., and Soule.)

Spacie, Thomas, Chicago, Ill. Roller skate. 1,753,810; Apr. 8.

Spalding, Herbert J., Akron, Ohio. Tire-flap hole measuring and cutting punch. 1,753,906; Apr. 8.

Spear, Lawrence Y., New London, assignor to Electric Boat Company, Groton, Conn. Rescue car. 1,753,482; Apr. 8.

Speer, Alexander S., Buffalo, N. Y., assignor by mesne assignments, to Certain-teed Products Corporation. Roofing. 1,753,583; Apr. 8.

Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Condenser for refrigerating apparatus. 1,753,951; Apr. 8.

Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Refrigerator door. 1,753,952; Apr. 8.

Spreen, Charles C., assignor to Kelvinator Corporation, Detroit, Mich. Condenser. 1,753,953; Apr. 8.

Squier, Bernice and B., Battle Creek, Mich. Toy. 1,753,320; Apr. 8.

Squier, Blanche. (See Squier, Bernice and B.)

Srulowitz, Hermann, assignor to the firm of Alex. Friedmann, Vienna, Austria. Pipe coupling. 1,754,127; Apr. 8.

Stalker, Edward A., Ann Arbor, Mich. Engine. 1,753,759; Apr. 8.

Stanbery, Lloyd J., and N. T. Branche, assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Track for use in furnaces. 1,753,220; Apr. 8.

Standard-Johnson Company. (See Donnellan, Edward P., assignor.)

Standard Oil Company. (See Naef, Donald L., assignor.)

Standard Radial Blast Corporation. (See Dreisbach, Charles A., assignor.)

Standard Register Company, The. (See Sherman, J. Q., and Metzner, assignors.)

Stark, Hans, Berlin-Charlottenburg, assignor to Deutsche Gold- und Silber-Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Hand or angle piece for dental purposes. 1,753,252; Apr. 8.

Staser, Miley J., Puerto Mexico, Mexico. Liner puller for hydraulic pumps. 1,754,060; Apr. 8.

Stator Refrigeration, Inc. (See Whitney, Lyman F., assignor.)

Stearns & Foster Company, The. (See Nash, Benjamin S., assignor.)

Steed, Leonard L., Johnson City, assignor to Endicott Johnson Corporation, Endicott, N. Y. Athletic shoe and making same. 1,753,872; Apr. 8.

Steel Sanitary Company, The. (See Cromwell, John C., assignor.)

Steinberg, John C., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical system for secret transmission. 1,753,353; Apr. 8.

Steinmayer Alwin G., Milwaukee, assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis. Lighting fixture. 1,754,001; Apr. 8.

Sterling Range & Furnace Corporation. (See Reck, Maurus C., assignor.)

Stevens, Evie, Los Angles, Calif. Bumper structure. 1,753,483; Apr. 8.

Stickney, Burnham C., Hillside, N. J. Paper-bag-making machine. 1,753,354; Apr. 8.

Stievenart, Arthur, Boitsfort, Belgium. Apparatus for separating dust from gases. 1,754,126; Apr. 8.

Stine, Samuel B., Osceola Mills, Pa. Screen structure. 1,753,355; Apr. 8.

Stirias, Jacob, New York, N. Y. Match card and cover. 1,754,060; Apr. 8.

Stock Quotation Telegraph Company. (See Hiltz, G. S., and Purcell, assignors.

Stokeley, Ray L., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,753,221; Apr. 8.

Stokes & Smith Company. (See Federwitz, Theodore A., assignor.)

Stollberg, Walter C., assignor of one-half to H. M. Sheer Company, Quincy, Ill. Oil-well control. 1,754,061; Apr. 8.

Stolle, Frank C., Webster Groves, assignor to Stolle Road Equipment Co., St. Louis, Mo. Road-material spreader. 1,753,811; Apr. 8.

Stolle Road Equipment Co. (See Stolle, Frank C., assignor.)

Stone, Nathaniel B., Washington, D. C. Wrench. 1,754,062; Apr. 8.

Stowe, Roy C., assignor to A. T. Cross Pencil Co., Providence, R. I. Mechanically-fed lead pencil. 1,754,002; Apr. 8.

Strandgren, Carl B., Le Vesinet, France. Turbine-wheel propeller and motor. 1,753,252; Apr. 8.

Streichen, John, et al. (See Drahonovsky, John B., assignor.)

Strelzin, A. A., et al. (See Drahonovsky, John B., assignor.)

Strenau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Coated metallic arc weld rod and making the same. 1,754,063; Apr. 8.

Strenau, Richard, Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Covered weld rod for electric-arc welding. 1,754,206; Apr. 8.

Strite, Charles P. (See Carter, C. W., and Strite.)

Submarine Signal Corporation. (See Hubbard, Beverly R., assignor.)

Suchke, Frederick M. (See Harris, A. W., Suchke, and King.)

Suetterlin, Orville E. (See Shields, E. H., and Suetterlin.)

Sullivan, George R., Oakland, Calif. Vehicle lock. 1,753,878; Apr. 8.

Sullivan Machinery Company. (See Banks, Robert T., assignor.)

Summa, Charles R. (See Borzi, Frank, assignor.)

Sun Electrical Company Limited, The. (See Curtis, Walter, assignor.)

Sun Oil Company. (See Pew, Arthur E., jr., assignor.)

Sun Rubber Company, The. (See Lower, Melvin S., assignor.)

Sunbeam Electric Manufacturing Company. (See Richard, William E., assignor.)

Surface Combustion Company. (See McCoy, Philip W., assignor.)

Surface Combustion Company, The. (See Stanbery, L. J., and Branche, assignors.)

Sutton, Frank L., assignor of one-half to H. M. Finney, Seattle, Wash. Carburetor-feed-retarding device. 1,753,484; Apr. 8.

Sweetland, Ernest J., Hazleton, Pa. Prepared automotive-engine filter clothing. 1,753,277; Apr. 8.

Swift Electric Welder Company. (See Woofter, Herbert A., assignor.)

Swift, George W., jr., assignor, by mesne assignments, to Bottle Cap Patents Company, Bordentown, N. J. Bottle-capping machine. 1,753,449; Apr. 8.

Sykes, Cameron M., and A. Binns, assignors to W. & T. Avery Limited, Birmingham, England. Platform weighing machine of the portable type. 1,754,064; Apr. 8.

Tacchella, Adolph A., Berkeley, assignor to T. E. Hammond, Los Angeles, Calif. Internal-combustion engine and operating same. 1,753,253; Apr. 8.

Taliaferro, Finis, Coffeyville, Kans. Curtain attachment. 1,753,909; Apr. 8.

Talley, Bascom D. (See Long, James T., assignor.)

Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Phase-changing apparatus. 1,753,822; Apr. 8.

Taschner, Frank A., Detroit, Mich. Fire kindler. 1,753,390; Apr. 8.

Taylor, Alexander, Redlands, Calif. Safety engine starter. 1,754,537; Apr. 8.

Taylor, Hamblen A., San Benito, Tex., assignor to J. O. Prentiss and L. S. Witte. Basket and cover therefor. 1,753,671; Apr. 8.

Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Colored heat-resisting glass. 1,754,065; Apr. 8.

Taylor, William C., assignor to Corning Glass Works, Corning, N. Y. Colored heat-resisting glass. 1,754,182; Apr. 8.

Taylor, William L., Elba, N. Y. Onion harvester. 1,753,874; Apr. 8.

Teague, W. A., et al. (See Cushman, J. W., Everett, and Farrell, assignors.)

Teague, Walter D., Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind. Jar or similar container. Des. 80,917; Apr. 8.

Teague, Walter D., Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind. Jar or similar container. Des. 80,918; Apr. 8.

Teeter, Wilford H., assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio. Engine-starting apparatus. 1,753,584; Apr. 8.

Teft, Frederick A., Toledo, Ohio. Electrical fitting. 1,754,066; Apr. 8.

Teger, I. (See Waltman, Chauncey E., assignor.)

Teleswitch Corporation. (See Gibbs, Leon M., assignor.)

Telts, Ernst, Chicago, Ill. Automobile signal. 1,753,221; Apr. 8.

Ternstedt Manufacturing Company. (See Schnell, W., and Hollindale, assignors.)

Terry, Charles M., assignor to A. W. Cash Company, Decatur, Ill. Regulating apparatus. 1,753,728; Apr. 8.

Testite Company, The. (See Cromwell, John C., assignor.)

Thaxton, George F., Savannah, Ga. Locked laundry bag. 1,753,254; Apr. 8.

Thayer, Henry W., Chatham, N. J. Sound-amplifying device. 1,753,672; Apr. 8.

Theis, Edwin R. (See Ullmann, H. M., and Theis.)

Thexton, Joseph, jr., and H. Tomlinson, assignors of one-fourth to J. E. Freeling and one-fourth to F. Riley, Fall River, Mass. Loom. 1,753,457; Apr. 8.
Thexton, Joseph, jr., and H. Tomlinson, assignors of one-fourth to J. E. Freeling and one-fourth to F. Riley, Fall River, Mass. Loom. 1,753,840; Apr. 8.
Thisler, Edward B., Harrodsburg, Ky. Rotary single sleeve-valve motor. 1,753,856; Apr. 8.
Thoma, Erwin. (See Wagner, H., Hoffa, Runne, Thoma, and Heyna.)
Thomas, Adolph A., New York, N. Y. Loud-speaking telephone receiver. 1,753,812; Apr. 8.
Thomas, Elwin A. and F. A., Willits, Calif. Illuminated name and number plate. 1,754,067; Apr. 8.
Thomas, Forest A. (See Thomas, Elwin A. and F. A.)
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Filling valve for sirupers. 1,753,729; Apr. 8.
Thompson, Arthur S., Ontario, Calif. Watchmaker's cabinet. 1,754,128; Apr. 8.
Thompson, Augustus F., Huntington, W. Va. Door for radiant gas heaters. 1,753,673; Apr. 8.
Thompson, George. (See Barton, Francis M., assignor.)
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Container for use in automobile interior fitting or similar article. Des. 80,919; Apr. 8.
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Container for use in automobile interior fitting or similar article. Des. 80,920; Apr. 8.
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Container for use in automobile interior fitting or similar article. Des. 80,921; Apr. 8.
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Container for use in automobile interior fitting or similar article. Des. 80,922; Apr. 8.
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Container for use in automobile interior fitting or similar article. Des. 80,923; Apr. 8.
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Container for use in automobile interior fitting or similar article. Des. 80,924 Apr. 8.
Thompson Manufacturing Company. (See Thompson, Walter Van E., assignor.)
Thompson, Russell G., assignor to Electromatic Typewriters, Inc., Rochester, N. Y. Carriage-return mechanism. 1,753,450; Apr. 8.
Thompson, Walter Van E., assignor to Thompson Manufacturing Company, Los Angeles, Calif. Sprinkler having projectable nozzle. 1,753,841; Apr. 8.
Thomson, George M., Caledonia, assignor, by mesne assignments, to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Producing cellular building material. 1,753,255; Apr. 8.
Thorp, Vaughn P., Riveredge, N. J., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,753,256; Apr. 8.
Timken Roller Bearing Company, The. (See Buckwalter, Tracy V., assignor.)
Timm, Ezra. (See Westberg, R., and Timm.)
Timoney, Andrew J., assignor of one-half to H. Williams and G. Durkin, New York, N. Y. Motion-picture-projecting device. 1,753,222; Apr. 8.
Tjaarda, John J. (See Earl H. J., Pew, and Tjaarda.)
Told, Arnold H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Rail anchor. 1,753,228; Apr. 8.
Tomlinson, Henry. (See Thexton, J., jr., and Tomlinson.)
Tonnelier, John E., New York, N. Y. Wall. 1,753,451; Apr. 8.
Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Last lathe. 1,753,891; Apr. 8.
Topham, Laurence E., Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 1,753,452; Apr. 8.
Tourjee, William O. (See Buchanan, W. C., and Tourjee.)
Towers, John H., Balsam Lake, Wis. Dead-center device. 1,753,485; Apr. 8.
Townley, Philip B. (See Townley, Stephen B. and P. B., and Laing.)
Townley, Stephen B., Newark, P. B. Townley, Rumson, and W. Laing, Montclair, N. J., assignors to Paas Dye Company. Packing and display box. 1,753,954; Apr. 8.
Transit Mixers, Inc. (See Tuller, Edward T., assignor.)
Travers, John T., and O. M. Urbain, assignors to The Ohio Sanitary Engineering Corporation, Columbus, Ohio. Water purification. 1,754,129; Apr. 8.
Travers, John T., and C. H. Lewis, Harpster, and O. M. Urbain, assignors to The Ohio Sanitary Engineering Corporation, Columbus, Ohio. Water purification. 1,754,068; Apr. 8.
Travis, Charles, Philadelphia, Pa. Electrical measuring apparatus. 1,753,486; Apr. 8.
Trencham, Henry, Ruislip, H. C. Heath, Wembly, W. P. Hamlyn, Acton, London, and H. E. Cox, Beckenham, England, assignors to General Electric Company. Solenoid-operated mechanism. 1,754,069; Apr. 8.
Trenton Potteries Company, The. (See Smith, Perry C., assignor.)
Tucker, Cecil C., assignor to Essex Rubber Company, Trenton, N. J. Shoe sole. Des. 80,929; Apr. 8.
Tuley, Charles B., Glenolden, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,753,955; Apr. 8.
Tuller, Edward T., Oakland, assignor to Transit Mixers, Inc., San Francisco, Calif. Mixer shell for transit mixers. 1,753,730; Apr. 8.
Tullis, Ross L., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird cage. 1,753,674; Apr. 8.
Turner Glass Corporation. (See Teague, Walter D., assignor.)
Tuttle, Burr W., Chicago, Ill. Cement. 1,753,538; Apr. 8.
Twiss, Alfred T., Trafford, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting mechanism. 1,753,956; Apr. 8.
Typographic Machines Company, The. (See Poeppelmeier Frank H., assignor.)
Uchiyama, Edward R., Sacramento, Calif. Game apparatus. 1,754,130; Apr. 8.
Ulimann, Harry M., and E. R. Theis, Bethlehem, Pa. Unhairing hides and skins. 1,753,539; Apr. 8.
Ulp, Alfred R., Pasadena, Calif. Spring boot. 1,753,257; Apr. 8.
Umstead, James R., Huntington, W. Va., assignor to F. H. Brundage, Toledo, Ohio. Dispensing device. 1,753,585; Apr. 8.
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Union Bank of Chicago, trustee. (See Cowles, Irving, assignor.)
Union Switch & Signal Company, The. (See Bossart, Paul N., assignor.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company, The. (See Sosinski, Paul P., assignor.)
United-Carr Fastener Corporation. (See Carr, Fred S., assignor.)
United-Carr Fastener Corporation. (See Carr, Moses F., assignor.)
United-Carr Fastener Corporation. (See Johnson, Gustav, assignor.)
United-Carr Fastener Corporation. (See Walters, Rollo F., assignor.)
United Cigarette Machine Company Aktiengesellschaft. (See Lorents, Valentin, assignor.)
United Engineering & Foundry Company. (See Johnson, Lane, assignor.)
United Milk Crate Corporation. (See Wildberg, Henry assignor.)
United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)
United Shoe Machinery Corporation. (See Bourn, Stephen W., assignor.)
United Shoe Machinery Corporation. (See Davenport, Herman A., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporatiin. (See Fowler, Alfred B., assignor.)
United Shoe Machinery Corporation. (See Goddu, George, assignor.)
United Shoe Machinery Corporation. (See Macdonald, Lester S., assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Langenberg, Frederick C., assignor.)
United States Foil Company. (See Reynolds, Richard S., assignor.)
United States Trust Company of Detroit, trustee. (See Holmes, Frederick J., assignor.)
Universal Draft Gear Attachment Co. (See Nash, Charles J., assignor.)
Urbain, Oliver M. (See Travers, J. T., and Urbain.)
Urbain, Oliver M. (See Travers, J. T., Lewis, and Urbain.)
Utility Strate Mfg. Co., The. (See Jauch, Robert J., assignor.)
Vaaler, Jens, assignor to The Clemetsen Company, Chicago, Ill. Joint construction. 1,753,487; Apr. 8.
Van Ackeren, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,754,131; Apr. 8.
Van Bekkum, Richard, Marysville, assignor to Harry Van Raaphorst, Port Huron, Mich. Scaffold jack. 1,754,132; Apr. 8.
Van Buskirk, Lesher W., Easton, Pa. Excavating tooth. 1,753,392; Apr. 8.
Van der Ploeg, Hidde W., Apeldoorn, Netherlands. Changeover mechanism. 1,754,133; Apr. 8.
Van Houten, Frank H., assignor to Dutchess Tool Company, Beacon, N. Y. Dough-molding machine. 1,753,393; Apr. 8.
Van Raaphorst, Harry. (See Van Bekkum, Richard, assignor.)
Van Sicklen Corporation. (See Thompson, Gertrude E., assignor.)
Van Valkenburgh, Richard M., Kansas City, Mo., assignor, by mesne assignments, to Wilson-Jones Company, Chicago, Ill. Posting tray. 1,753,458; Apr. 8.
Van Vliet, John D., San Francisco, Calif. Multipower plant transmission for aircraft and the like. 1,754,192; Apr. 8.
Veronneau, Louis H., Montreal, Quebec, Canada. Radiator. 1,753,540; Apr. 8.
Vesperman, August, Schenectady, N. Y. Egg-testing device. 1,753,488; Apr. 8.
Vickerman, Arthur D., Pueblo, Colo. Screening machine. 1,753,630; Apr. 8.

Vickers Limited. (See Pierson, R. K., and Duncan, assignors.)
Victor Talking Machine Company. (See Elliott, Harold F., assignor.)
Vitamin Food Co. (See Prince, Robert K., assignor.)
Von Asten & Cie., Societe en Commandite. (See Asten, E. V., and Hill, assignors.)
Von Dey, Paul. (See Weller, Fritz, assignor.)
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Smoking stand or similar article. Des. 80,925; Apr. 8.
Vorclone Corporation. (See Partlow, Alfred, assignor.)
Vortex Cup Company. (See Wood, A. C., and Bares, assignors.)
Wagner, Clinton D., Cedar Rapids, Iowa. Wrench. 1,753,224; Apr. 8.
Wagner, Hermann, Bad Soden-on-the-Taunus, and E. Hoffa, E. Runne, E. Thoma, and H. Heyna, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Azo dyestuff. 1,754,070; Apr. 8.
Wagner, William, et al. (See Drahonovsky, John B., assignor.)
Waid, Charles L., Palmer, Mass. Hook. 1,754,071; Apr. 8.
Waite, Frank H., and G. W. Davey, Long Island City, N. Y. Furnace construction. 1,753,842; Apr. 8.
Walper, Gordon R., Royal Oak, Mich. Wall and ceiling construction. 1,754,214; Apr. 8.
Walper, Gordon R., Royal Oak, Mich. Wall or ceiling construction. 1,754,215; Apr. 8.
Walter, Frank L., Dayton, Ohio, deceased; M. M. Walter, executrix. Pruning shears. 1,753,225; Apr. 8.
Walter, Margaret M., executrix. (See Walter, Frank L.)
Walters, Rollo F., Detroit, Mich., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Closure element. 1,753,631; Apr. 8.
Waltman, Chauncey E., assignor to I. Teger, doing business as Imperial Lamp Mfg. Co., Chicago, Ill. Smoker's stand. Des. 80,926; Apr. 8.
Wardley, Thomas, Greenford, and H. V. E. M. Renn, West Ealing, England, assignors to Hartford-Empire Company, Hartford, Conn. Aparatus for annealing glassware. 1,754,193; Apr. 8.
Ware, Raymond, Ithaca, N. Y. Internal-combustion engine. 1,753,226; Apr. 8.
Warren, Clarence G., Kellyville, assignor to G. Krell, Sapulpa, Okla. Tool-dressing apparatus. 1,753,843; Apr. 8.
Warwick, George, Birmingham, England. Manufacture of the rims of motor-vehicle steering wheels. 1,753,586; Apr. 8.
Washburn, Richard C., assignor to Montgomery-Washburn, Company, Saugerties, N. Y. Heat-insulating jacket. 1,753,813; Apr. 8.
Washburn, Walter B. C., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Distributing device. 1,753,957; Apr. 8.
Wasson, Robert B., Cranford, N. J. Apparatus and method for testing gases. 1,753,675; Apr. 8.
Waters, Harry F., St. Louis, and V. R. Brown, assignors to Magnetic Organ Action Company, University City, Mo. Magnetic action for pipe organs. 1,753,323; Apr. 8.
Watertite Casement Hardware Co. (See Cummings, Earle W., assignor.)
Watson, Orville C., Skiatook, Okla. Thief-hole cover. 1,753,894; Apr. 8.
Watts, John T., Chicago, Ill. Extensible electric conductor. 1,754,072; Apr. 8.
Webb, George E., assignor to Koehring Company, Milwaukee, Wis. Automatic concrete-mixing machine. 1,753,824; Apr. 8.
Webb, George F., Hamilton, Ontario, Canada. Turnover toaster. 1,753,541; Apr. 8.
Webb, Powhatan A., Atlanta, Ga. Tobacco-smoking pipe. 1,753,844; Apr. 8.
Weber, Maximilian S., Chicago, Ill. Grasp bar. Des. 80,927; Apr. 8.
Weibull, Ernst H. W., Saltsjobaden, assignor to Aktiebolaget Nordiska Armaturfabrikerna, Stockholm, Sweden. Striking or hammering tool. 1,753,910; Apr. 8.
Weidlich Sterling Spoon Co. (See Flauder, Alfred J., assignor.)
Weinhardt, Robert A., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle suspension. 1,753,489; Apr. 8.
Welch, John B., New Orleans, La. Progressive dry kiln and drying lumber. 1,753,974; Apr. 8.
Weller, Fritz, Bonn, Germany, assignor to P. Von Dey, Chicago, Ill. Trap. 1,753,514; Apr. 8.
Wellman-Seaver-Morgan Company, The. (See Case, Arthur F., assignor.)
Welna, Henry P., St. Paul, Minn. Adjustable fastener for storm windows. 1,753,542; Apr. 8.
Welsh, John T., Westfield, N. J. Control apparatus. 1,753,975; Apr. 8.
Wendt, Bruno, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y. Desensitiser and process of desensitising light-sensitive photographic materials. 1,753,911; Apr. 8.
West, Donald C., East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,753,958; Apr. 8.
Westberg, Robert, and E. Timm, Oakland, assignors of one-third to P. R. Lindale, San Francisco, Calif. Liquid-dispensing apparatus. 1,753,278; Apr. 8.
Western Electric Company. (See Kemp, Archie R., assignor.)
Western Electric Company. (See Lum, George R., assignor.)
Western Electric Company. (See Selvig, John N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Cook, Willard G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hershberger, David C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Higbee, Ray P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Moore, Mortimer J. P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Tuley, Charles B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Twiss, Alfred T., assignor.)
Westinghouse Electric & Manufacturing Company. (See West, Donald C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Weyandt, Carl S., Pittsburgh, Pa., assignor to Central Electric Tool Company. Electric percussive tool. 1,753,464; Apr. 8.
Wheeler, Henry A., F. J. Bentz, and J. L. Mason, Miami, Fla., assignors of three-fourths to said F. J. Bentz and one-fourth to L. E. Bentz. Solar water-heating system. 1,753,227; Apr. 8.
Wheeling Steel Corporation. (See Bowman, James H., assignor.)
White, Arthur C. (See Barstow, E. O., and White.)
White, Clarence W., North Bennington, assignor to H. C. White Company, North Bennington, Vt. Glide. 1,753,976; Apr. 8.
White, H. C., Company. (See White, Clarence W., assignor.)
White Sewing Machine Corporation. (See Colegrove, Charles E., assignor.)
White, William E., Chicago, Ill. Drafting outfit. 1,753,760; Apr. 8.
Whitehead, James. (See Neal, Daniel, assignor.)
Whitmore, John, assignor to Davidson & Company, Limited, of Sirocco Engineering Works, Belfast, Ireland. Dust collector or separator. 1,753,490; Apr. 8.
Whitney, F. A., Carriage Company. (See Shaw, Harold F., assignor.)
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Brake-lever connecter body. 1,753,455; Apr. 8.
Whitney, Lyman F., Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc. Temperature regulator. 1,753,676; Apr. 8.
Whittle, Horace, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Retardation-coil system. 1,753,325; Apr. 8.
Wick, Louis J., assignor to Wicks Pipe Organ Co., Highland, Ill. Switch mechanism. 1,754,004; Apr. 8.
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,753,491; Apr. 8.
Wicks, John, Oak Park, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,753,761; Apr. 8.
Wicks Pipe Organ Co. (See Wick, Louis J., assignor.)
Wikstrom, Alfred, Albuquerque, N. Mex. Guide wheel for woodworking tools. 1,753,959; Apr. 8.
Wilbur, Lawrence S., Evanston, Ill. Splice bar or fishplate. 1,753,763; Apr. 8.
Wilbur, Lawrence S., Evanston, Ill., assignor to National Rail Joint Corporation. Splice bar or fishplate. 1,753,762; Apr. 8.
Wildberg, Henry, assignor, by mesne assignments, to United Milk Crate Corporation, Cincinnati, Ohio. Container. 1,754,183; Apr. 8.
Wiley, Samuel D., Metuchen, N. J. Operating aircraft lights. 1,754,134; Apr. 8.
Wilkes, Frederic, Wilkinsburg, Pa. Cleaning compound. 1,753,895; Apr. 8.
Willard, Louis J., assignor to The Rotary Printing Company, Norwalk, Ohio. Method and apparatus for making manifold forms. 1,753,764; Apr. 8.
Willard Storage Battery Company. (See Lormor, Henry W., assignor.)
Williams, Harold, et al. (See Timoney, Andrew J., assignor.)
Williams, Harry M., and C. L. Lee, assignors to General Motors Research Corporation, Dayton, Ohio. Machine for and method of finishing bushings. 1,753,632; Apr. 8.
Williams, Theron H., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Carline bracket. 1,753,633; Apr. 8.
Willis, Olo C., assignor to The P. A. Geier Company, Cleveland, Ohio. Dust bag for suction cleaning apparatus. 1,753,458; Apr. 8.
Willys-Overland Company, The. (See Fisher, Walter S., assignor.)
Willys-Overland Company, The. (See Hunt, Warren T., assignor.)
Wilson-Jones Company. (See Van Valkenburgh, Richard M., assignor.)
Wilson, Robert A., and C. S. Crickmer, assignors to The Gulberson Corporation, Dallas, Tex. Compound slips. 1,753,543; Apr. 8.

Winchester, Carey C., Brookhaven, assignor to National Cedarchex Corporation, Fulton County, Ga. Cedarising device. 1,753,544; Apr. 8.
Wine, William E., Toledo, Ohio. Railway hopper car. 1,754,135; Apr. 8.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Switch. 1,753,977; Apr. 8.
Wired Radio, Inc. (See Gebhard, Louis A., assignor.)
Wise, Stanley G. (See Gebhart, L. H., and Wise.)
Withers, John B., Oakland, Calif. Combined belt buckle and container. 1,753,765; Apr. 8.
Witkowski, James J., and W. L. Leeper, Albion, N. Y. Storage-battery carrier. 1,753,396; Apr. 8.
Witte, L. S., et al. (See Taylor, Hamblen A., assignor.)
Witter, Willis D., Utica, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation. Oil-tank-fire protection. 1,754,005; Apr. 8.
Woidich, Francis S., Sapulpa, Okla. Process and apparatus for converting heavy hydrocarbon oils into lighter products. 1,754,136; Apr. 8.
Wolf, Robert B., New York, N. Y., and R. P. Hill, Glen Rock, N. J. Method of and apparatus for bleaching paper pulp. 1,753,228; Apr. 8.
Wolfe, Louis C., Altoona, Pa. Carburetor. 1,753,634; Apr. 8.
Wolff, Alfred E., Kansas City, Mo. Flush valve. 1,753,229; Apr. 8.
Wolff, Frank W., Parnassus, Pa. Marker for plants, flowers, and the like. 1,753,960; Apr. 8.
Wood, Andrew C., and R. Bares, assignor, by mesne assignments, to Vortex Cup Company, Chicago, Ill. Cup dispenser. 1,753,857; Apr. 8.
Wood, Charles A., Clay Center, Kans. Toy axle stamping and cutting machine. 1,753,978; Apr. 8.
Wood, George R., assignor to Dayton Scale Company, Dayton, Ohio. Grinding device for meat-slicing machines. 1,753,635; Apr. 8.
Wood Newspaper Machinery Corporation. (See Isbell, John A., assignor.)
Wood, Robert, Garwick, Isle of Man. Apparatus for supplying steam to engines when the main supply is cut off. 1,754,184; Apr. 8.
Woodall, Herbert J., and M. S. Randall, Detroit, Mich. Fastening interior wall panels to automobile body frames. 1,753,397; Apr. 8.
Woodhull, Samuel T., Winchester, assignor to The Amrad Corporation, Medford, Mass. Electrolytic condenser. 1,753,912; Apr. 8.
Woods, Albert T., Placerville, Colo. Meat fork. 1,753,815; Apr. 8.
Woofter, Herbert A., Kenton, Ohio, assignor to Swift Electric Welder Company, Detroit, Mich. Welding apparatus. 1,753,492; Apr. 8.
Wright, Ernest H., Kansas City, Mo. Manufacturing meat cure. 1,753,358; Apr. 8.
Yamamoto, Takejiro, Akashi, Hyogo, Japan. Intertwisted net having square-shaped meshes. 1,753,636; Apr. 8.
Yarnall-Waring Company. (See Garrett, James W., assignor.)
Yates, John C., Baltimore, Md. Spoon hook. 1,754,073, Apr. 8.
Yerkes, John A. (See Brett, Henry E., assignor.)
Yingling, John C., Belleville, Ill. Safety guard for hooks and the like. 1,753,326; Apr. 8.
Young, Fred M., Racine, Wis. Space heater. 1,753,587; Apr. 8.
Young, William L. (See Altice, G. F., and Young.)
Zadek, Arthur, New York, N. Y. Rattle with handle having flexible section. 1,753,493; Apr. 8.
Zadorozny, Mike, Charleston, W. Va., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Sheet-glass apparatus. 1,753,766; Apr. 8.
Zangerle & Peterson Company. (See Anderson, Otto A., assignor.)
Zangerle and Peterson Company, The. (See Christiansen, William F., assignor.)
Zerk, Oscar U., Cleveland, Ohio, now by judicial change of name O. U. Zerk, assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill. Forming and knurling metal bodies. 1,753,258; Apr. 8.
Zerk, Oscar U., assignor to Alemite Corporation, Chicago, Ill. Lubricating system. 1,753,494; Apr. 8.
Zschoch, Fritz, and H. Rodrian, Unterroblingen, assignors to A. Riebeck'sche Montanwerke Aktiengesellschaft, Halle, Saale, Germany. Production of montan wax. 1,753,816; Apr. 8.
Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Signaling system. 1,753,961; Apr. 8.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Accelerator, Electromagnetic hydrocarbon. J. B. Newton. 1,753,617; Apr. 8.
Accelerator for the vulcanization of rubber. A. Cambron. 1,754,010; Apr. 8.
Acetylene generator. L. Oliphant. 1,753,529; Apr. 8.
Acids into ketones, Transforming organic. J. W. Beckman. 1,753,642; Apr. 8.
Acids, Production of. H. Frischer. 1,754,156; Apr. 8.
Acoustic device, Internally-clamped composite piezo-electric. A. McL. Nicolson. 1,753,312; Apr. 8.
Acoustic diaphragm and loud-speaker combination. N. Baldwin. 1,753,979; Apr. 8.
Advertising device. B. Hoetger. 1,753,203; Apr. 8.
Aerodrome. W. A. Loth. 1,753,574; Apr. 8.
Aeroplane. C. Petrunin. 1,753,988; Apr. 8.
Aeroplane-wing beater. J. A. Kidd. 1,753,433; Apr. 8.
Aircraft. A. G. Boldridge. 1,754,007; Apr. 8.
Aircraft. G. W. Hardin. 1,754,211; Apr. 8.
Aircraft and the like, Multipower-plant transmission for. J. D. Van Vliet. 1,754,192; Apr. 8.
Aircraft lights, Operating. S. D. Wiley. 1,754,134; Apr. 8.
Aircraft, Tandem-wheeled. F. F. Manor. 1,753,612; Apr. 8.
Airplane and thermometer, Combined. F. Alessi. Des. 80,873; Apr. 8.
Airship terminal. G. Betancourt. 1,753,592; Apr. 8.
Alarm: *See*—
Farm alarm.
Alkali-metal xanthates, Recovering. W. Hirschkind. 1,753,787; Apr. 8.
Alloy, Acid-resistant. C. B. Plummer. 1,753,904; Apr. 8.
Alloy, Metallic. H. J. Lorang. 1,753,748; Apr. 8.
Alloys, Making ductile iron chromium aluminum. V. B. Browne. 1,754,008; Apr. 8.
Anchor and reel therefor. S. F. Bohm. 1,753,737; Apr. 8.
Anchor, Rail. L. Kadar. 1,753,421; Apr. 8.
Anchor, Rail. C. B. Shepherd. 1,753,755; Apr. 8.
Anchor, Rail. A. H. Told. 1,753,223; Apr. 8.
Annealing box. A. M. Capper. 1,753,261; Apr. 8.
Antirattling device. D. W. Mell. 1,754,115; Apr. 8.
Armature-conveying apparatus. R. W. Baker. 1,753,640; Apr. 8.
Armature-winding apparatus. F. G. Dewey. 1,753,554; Apr. 8.
Armatures. Apparatus for assembling. M. Henning. 1,753,605; Apr. 8.
Article carriers, Unloading. H. W. Lormor. 1,753,983; Apr. 8.
Artificial bait. U. C. Pemberton and J. B. Johnson. Des. 80,908; Apr. 8.
Audiphone. J. C. Aber. 1,753,817; Apr. 8.
Automobile body heater. D. T. MacLeod. 1,753,382; Apr. 8.
Automobile heater. S. Loeb. 1,753,897; Apr. 8.
Automobile heater. E. B. Miller. 1,753,615; Apr. 8.
Automobile signal. D. Telts. 1,753,221; Apr. 8.
Automobiles, Steering range for. C. W. Anderson. 1,753,194; Apr. 8.
Axle construction, Roller-bearing. T. V. Buckwalter. 1,753,772; Apr. 8.
Bacon, Frying. C. W. Carter and C. P. Strite. 1,753,879; Apr. 8.
Bag: *See*—
Fruit-picker's bag. Laundry bag.
Bag-making machine, Paper-. B. C. Stickney. 1,753,354; Apr. 8.
Bag manufacture. E. O. Barstow and A. C. White. 1,753,281; Apr. 8.
Ball and support therefor, Exercising. H. O. Costello. 1,753,310; Apr. 8.
Ball-warper traverse mechanism. H. D. Colman. 1,753,503; Apr. 8.
Basement circulator. C. A. Borgeson. 1,753,686; Apr. 8.
Basket and cover therefor. H. A. Taylor. 1,753,671; Apr. 8.
Bath: *See*—
Electroplating bath.
Battery carrier, Storage-. J. J. Witkowski and W. L. Leeper. 1,753,396; Apr. 8.
Battery electrode, Storage-. S. D. Levings. 1,753,381; Apr. 8.
Battery terminal, Detachable. D. H. Schlaegel. 1,754,053; Apr. 8.
Bearing and making same. R. L. Seabury. 1,753,581; Apr. 8.
Bearing body and making same. W. H. Klocke. 1,753,434; Apr. 8.
Bearing, Roller. G. F. Blume. 1,754,077; Apr. 8.
Bearing, Roller. W. D. Burns. 1,753,691; Apr. 8.
Bearings, Forming. L. J. Sauer and C. H. Joy, jr. 1,753,837; Apr. 8.
Bearings from axles, Removing. T. V. Buckwalter. 1,753,771; Apr. 8.
Bearings, Making lined. W. H. Klocke. 1,753,435; Apr. 8.
Beauty-parlor chair. W. Meyer. 1,753,470; Apr. 8.
Bed, Door. C. F. Kolb. 1,753,270; Apr. 8.
Bed for type-casting machines and the like, Pattern. C. A. Macomie. 1,753,438; Apr. 8.
Bed-rail lock. S. B. Gamble. 1,753,407; Apr. 8.
Bed, Wall. N. Sinclair. 1,753,304; Apr. 8.
Belt, Abdominal. G. Burns. 1,753,789; Apr. 8.
Belt or strip driving arrangement. A. V. Bedford. 1,754,187; Apr. 8.
Berth-curtain ventilator, Pullman-. L. O. B. Lindstrom. 1,753,572; Apr. 8.
Bicycles, Knee grip for motor. L. Gaisman. 1,753,826; Apr. 8.
Binder for down-hanging sheets. H. L. De Lisle. 1,753,366; Apr. 8.
Blower for powdered fuel. M. J. P. Moore. 1,753,936; Apr. 8.
Bobbin, Braider. A. Hlavac. 1,753,341; Apr. 8.
Body-treatment machine. J. T. Janette. 1,753,518; Apr. 8.
Boiler: *See*—
Egg boiler. Steam boiler.
Marine boiler. Waste-heat boiler.
Boiler. G. I. Bonus. 1,753,687; Apr. 8.
Boiler. S. B. Harding. 1,754,102; Apr. 8.
Boiler and economizer and operating the same, Steam. D. S. Jacobus. 1,753,266; Apr. 8.
Boiler furnace. A. C. Mott, jr. 1,754,176; Apr. 8.
Boiler scale and other like deposits, Preparation for removing or preventing. E. Köpplinger. 1,754,171; Apr. 8.
Boll weevil and vegetation extinguisher. W. R. Greenhaw 1,754,097; Apr. 8.
Boring machine, Earth-. J. K. Hencken. 1,753,339; Apr. 8.
Bottle. S. J. Blackwell. 1,753,786; Apr. 8.
Bottle. G. N. Mas. Des. 80,902; Apr. 8.
Bottle capper. H. G. Rice. 1,754,000; Apr. 8.
Bottle-capping machine. G. W. Swift, jr. 1,753,449; Apr. 8.
Box: *See*—
Annealing box. Packing and display box.
Box. L. H. Gebhart and S. G. Wise. 1,753,461; Apr. 8.
Box hook. A. E. Gannon, J. F. MacNeil, and W. J. MacLellan. 1,753,366; Apr. 8.
Box or case for holding electric and other bulbs, Collapsible. J. Brownlie and A. Horsley. 1,754,081; Apr. 8.
Box-wrapping device. R. C. Cunningham. 1,753,646; Apr. 8.
Bracket: *See*—
Carline bracket.
Brake: *See*—
Friction brake. Nonskid brake.
Gear-box brake.
Brake. C. R. Short. 1,753,582; Apr. 8.
Brake-control mechanism. E. J. W. Ragsdale. 1,753,966; Apr. 8.
Brake-lever connecter body. L. L. Whitney. 1,753,455; Apr. 8.
Brake mechanism. S. H. Clapp. 1,753,362; Apr. 8.
Brake mechanism, Automobile. E. P. du Pont. 1,753,370; Apr. 8.
Brake shoe. L. E. La Brie. 1,753,208; Apr. 8.
Brick construction, Fire-. H. Heitman. 1,754,015; Apr. 8.
Brick or block for regenerators. K. Kniepert. 1,753,467; Apr. 8.
Broiler rack. M. C. Beck. 1,753,719; Apr. 8.
Buckle and container, Combined belt. J. B. Withers. 1,753,765; Apr. 8.
Buckle, Belt. H. C. Kuhnheim. 1,753,864; Apr. 8.
Buckle, Shoe. S. M. Riker. Des. 80,910; Apr. 8.
Building construction. W. W. Loy and E. J. Crum. 1,754,026; Apr. 8.
Building material, Producing cellular. G. M. Thomson. 1,753,255; Apr. 8.
Bulldozer for chassis frames. B. J. Jauch. 1,753,889; Apr. 8.
Bumper. E. H. McCloud. 1,753,998-4; Apr. 8.

ATLANTA TO VRARBI CARNEGIE

Bumper for automobiles, Extensible. J. C. Hoffman 1,754,104; Apr. 8.
Bumper, Rubber-covered spring. C. H. Gunn. 1,753,411; Apr. 8.
Bumper structure. E. Stevens. 1,753,483; Apr. 8.
Burner: *See*—
Gas burner. Stubble burner.
Liquid-fuel burner.
Button. G. Johnson. 1,754,201; Apr. 8.
Cabinet kitchen. R. W. Martin. 1,753,526; Apr. 8.
Cabinet, Watchmaker's. A. S. Thompson. 1,754,128; Apr. 8.
Cable-forming device. M. H. Lang. 1,753,793; Apr. 8.
Cable terminal. W. E. Schwarzmann and A. Rosner. 1,753,627; Apr. 8.
Cage, Bird. R. L. Tullis. 1,753,674; Apr. 8.
Cake-icing machine. J. W. Cates. 1,753,549; Apr. 8.
Camera, Photographic. F. H. Owens. 1,753,622; Apr. 8.
Can: *See*—
Oil can.
Can-testing machine. L. H. Peters. 1,753,903; Apr. 8.
Canals or the like, Apparatus for producing. W. F. Hahneman. 1,753,860; Apr. 8.
Cap, Bathing. H. A. Bauman. Des. 80,930; Apr. 8.
Capping machine. A. J. Jonsson. 1,753,789; Apr. 8.
Car, Amusement. J. C. Lusse. 1,754,172; Apr. 8.
Car, Articulated. E. Latshaw. 1,754,111; Apr. 8.
Car construction, Amusement-. R. J. Lusse. 1,754,112; Apr. 8.
Car-dumper clamp. A. F. Case. 1,753,456; Apr. 8.
Car, High-speed articulated. W. S. Adams and E. Slingluff, sr. 1,754,137; Apr. 8.
Car, Railway hopper. W. E. Wine. 1,754,135; Apr. 8.
Car, Rescue. L. Y. Spear. 1,753,482; Apr. 8.
Cars, Pressing installation for freight. H. Bryson. 1,753,400; Apr. 8.
Carbon, Producing activated. O. Fuchs. 1,753,507; Apr. 8.
Carburetor. J. B. Drahonovsky. 1,753,882; Apr. 8.
Carburetor. R. A. Duff. 1,753,235; Apr. 8.
Carburetor. L. C. Woolfe. 1,753,934; Apr. 8.
Carburetor control, Automatic. W. T. Hunt. 1,753,788; Apr. 8.
Carburetor-feed-retarding device. F. L. Sutton. 1,753,484; Apr. 8.
Carline bracket. T. H. Williams. 1,753,633; Apr. 8.
Carriage, Collapsible baby. E. F. Lewis. 1,753,931; Apr. 8.
Carriage-return mechanism. R. G. Thompson. 1,753,450; Apr. 8.
Carrier: *See*—
Battery carrier.
Carton or similar container. F. W. Peterson. Des. 80,909; Apr. 8.
Cartridge adapter. A. W. Peters. 1,753,472; Apr. 8.
Cartridge case. J. S. Hatcher. 1,753,413; Apr. 8.
Cartridge, High-pressure gas-developing. G. Schworetzky. 1,753,871; Apr. 8.
Case: *See*—
Cartridge case. Vanity case.
Floral case.
Cash register. F. L. Fuller. 1,753,288–9; Apr. 8.
Cash register. R. E. Rice. 1,753,200; Apr. 8.
Caster. W. F. Herold. 1,753,431; Apr. 8.
Casting box for stereotype-printing plates, Separable. J. A. Isbell. 1,753,419; Apr. 8.
Casting reel. C. A. Boyer. 1,753,738; Apr. 8.
Cathode rectifier for medium voltages, Incandescent. B. Dönath. 1,754,012; Apr. 8.
Cattle-killing machine. J. Dever. 1,753,851; Apr. 8.
Cedarizing device. C. C. Winchester. 1,753,544; Apr. 8.
Cellulose, Product from organic derivatives of. C. Dreyfus. 1,754,164; Apr. 8.
Cement. B. W. Tuttle. 1,753,538; Apr. 8.
Centrifugal apparatus. J. M. Schutz. 1,753,972; Apr. 8.
Cereal grains, Processing. J. W. Beckman. 1,753,643; Apr. 8.
Chain, Bracelet. W. J. Roy. 1,753,971; Apr. 8.
Chain hook. G. Johnson. 1,753,607; Apr. 8.
Chain, Tire. P. Scholtus. 1,753,388; Apr. 8.
Chains, Manufacture of. J. Reid, A. M. Leahy, and C. G. Lutts. 1,753,941; Apr. 8.
Chair: *See*—
Beauty-parlor chair.
Chair. E. Hauser. Des. 80,890; Apr. 8.
Chandelier or similar article. O. Hoffmann. Des. 80,892; Apr. 8.
Change-over mechanism. H. W. van der Ploeg. 1,754,133; Apr. 8.
Charcoal, Actuating. G. Enssle. 1,753,984; Apr. 8.
Chart, Color. J. E. Norberg. 1,753,619; Apr. 8.
Chilling mold. J. P. Leary. 1,753,880; Apr. 8.
Circuit-interrupting mechanism. A. T. Twiss. 1,753,956; Apr. 8.
Circuit, Timing. W. A. Knoop. 1,753,845; Apr. 8.
Clamp: *See*—
Car-dumper clamp.
Clasp: *See*—
Collar clasp.
Clasp for jewelry. J. Kreisler. 1,753,207; Apr. 8.
Cleaning apparatus, Suction. E. F. Martinet. 1,753,799; Apr. 8.
Cleaning compound. F. Wilkes. 1,753,895; Apr. 8.
Clock, Coin-controlled. W. D. Shafer. 1,753,949; Apr. 8.
Closure, Adjustable garment. I. Kaplan. 1,753,657; Apr. 8.
Closure, Can. J. K. Burleigh. 1,753,500; Apr. 8.
Closure element. R. F. Walters. 1,753,681; Apr. 8.
Closure-retaining means for containers. E. P. Linch. 1,753,660; Apr. 8.
Clothesline. H. A. Marrable. 1,753,439; Apr. 8.
Coat. D. Long. Des. 80,899–900; Apr. 8.
Cod liver oil, Preparing concentrated. K. Kawai. 1,753,790; Apr. 8.
Coil, Adjustable inductance. F. J. Given. 1,753,337; Apr. 8.
Coil, Heater. C. C. McDermott. 1,753,296; Apr. 8.
Coil system, Retardation-. H. Whittle. 1,753,325; Apr. 8.
Coin-in-the-slot machine. W. H. Beddard. 1,753,197; Apr. 8.
Collapsible tube. W. V. Roos. 1,753,665; Apr. 8.
Collar clasp. A. A. MacDonald. 1,753,832; Apr. 8.
Collector, Dust. W. G. Clark. 1,753,502; Apr. 8.
Collector or separator, Dust. J. Whitmore. 1,753,490; Apr. 8.
Compass. F. G. Senter. 1,754,055; Apr. 8.
Compound from indene and phenols. L. Rosenthal and W. Kropp. 1,754,052; Apr. 8.
Compound slips. H. A. Wilson and C. S. Crickmer. 1,753,543; Apr. 8.
Compressing machine. L. E. Endsley and E. V. Corff. 1,753,233; Apr. 8.
Compressor apparatus. A. Baumann and A. Meyer. 1,753,280; Apr. 8.
Computing machine. L. S. McCorn. 1,753,711; Apr. 8.
Concrete block and making the same, Filled. J. A. De Vilbiss. 1,753,776; Apr. 8.
Concrete floor construction. F. M. Barton. 1,753,496; Apr. 8.
Concrete joint form. P. Jannarone. 1,754,107; Apr. 8.
Concrete mixer. E. H. Lichtenberg. 1,753,831; Apr. 8.
Concrete mixer, Portable. R. A. Daddisman. 1,753,811; Apr. 8.
Concrete mixing machine, Automatic. G. E. Webb. 1,753,324; Apr. 8.
Concrete steps, Metal riser and nosing for. S. A. Cope. 1,753,284; Apr. 8.
Condenser. M. H. Bennett. 1,753,193; Apr. 8.
Condenser. C. C. Spreen. 1,753,953; Apr. 8.
Condenser. C. B. Tuley. 1,753,955; Apr. 8.
Condenser, Electrolytic. S. T. Woodhull. 1,753,912; Apr. 8.
Condenser for refrigerating apparatus. C. C. Spreen. 1,753,951; Apr. 8.
Conductor, Extensible electric. J. T. Watts. 1,754,072; Apr. 8.
Conduits, Making flexible tubular. R. P. Jacques. 1,753,465; Apr. 8.
Confection. M. Dushek. Des. 80,883; Apr. 8.
Confectionery-cooling tunnel. J. W. and F. W. Greer. 1,753,828; Apr. 8.
Connector for terminal wires. J. Dillon. 1,753,777; Apr. 8.
Container. E. F. Hulbert. 1,753,928; Apr. 8.
Container. H. Wildberg. 1,754,188; Apr. 8.
Container for use in automobile interior fitting or similar article. G. E. Thompson. Des. 80,919–24; Apr. 8.
Container, Impervious compressed-fluid. A. C. Badger. 1,753,259; Apr. 8.
Container, Reenforced. E. F. Hulbert. 1,753,929; Apr. 8.
Containers, Method of and apparatus for flanging. A. Mauser. 1,753,963; Apr. 8.
Control apparatus. J. T. Welsh. 1,753,975; Apr. 8.
Control device, Choke-. C. A. Martin and W. Orth. 1,754,028; Apr. 8.
Control for electric sirens, Automatic. M. Reule. 1,753,579; Apr. 8.
Control mechanism for power-transmission gearing. P. C. Saccaggio. 1,754,181; Apr. 8.
Control system. W. G. Cook. 1,753,983; Apr. 8.
Control system. D. C. West. 1,753,958; Apr. 8.
Control system, Automatic. D. R. MacLeod, F. D. King, and E. L. Hough. 1,754,027; Apr. 8.
Cotton picker. J. H. Cooper. 1,753,919; Apr. 8.
Counting and grouping machine. J. S. Reaves. 1,754,047; Apr. 8.
Coupling: *See*—
Disconnecting coupling. Releasing coupling.
Pipe coupling.
Couplings for sucker rods and the like, Making. F. W. Axtell. 1,753,658; Apr. 8.
Cover, Hat. S. Manos. 1,754,114; Apr. 8.
Cover, Protective book. C. W. Greenhill. 1,753,464; Apr. 8.
Cover, Slip. A. A. Schimmel. 1,753,668–9; Apr. 8.
Cover, Thief-hole. O. C. Watson. 1,753,294; Apr. 8.
Cover, Wheel and tire. H. Kanner. 1,753,519; Apr. 8.
Crank shaft. J. T. Long. 1,753,709; Apr. 8.
Cup dispenser. A. C. Wood and R. Bares. 1,753,357; Apr. 8.
Cup-shaped members, Apparatus for expanding. J. E. Batie. 1,753,680; Apr. 8.
Current-collecting device. D. C. Hershberger. 1,754,016; Apr. 8.
Curtain attachment. F. Taliaferro. 1,753,909; Apr. 8.
Curtain, Door. C. W. Linn, C. G. Bigelow, and H. O. Raiche. 1,753,795; Apr. 8.
Cutter: *See*—
Stalk cutter. Thread cutter.
Tape cutter.
Cutter. O. M. Maisch. 1,753,935; Apr. 8.

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Cutter head. A. B. Fowler. 1,753,855; Apr. 8.
Davenport or like article. O. A. Anderson. Des. 80,874; Apr. 8.
Davenport or like article. W. F. Christiansen. Des. 80,877; Apr. 8.
Dead-center device. J. H. Towers. 1,753,485; Apr. 8.
Deflecting machine. W. E. Sharp, G. F. Sandstrom, and G. H. Ridlon. 1,753,250; Apr. 8.
Dental plate and constructing same. G. A. Smith. 1,754,058; Apr. 8.
Dentures, Apparatus and method of making. E. D. Ralph. 1,753,965; Apr. 8.
Desensitizer and desensitizing light-sensitive photographic materials. B. Wendt. 1,753,911; Apr. 8.
Die for the manufacture of chains. J. Reid, A. M. Leahy, and C. G. Lutts. 1,753,942; Apr. 8.
Die head, Self-opening. A. F. Breitenstein. 1,753,819; Apr. 8.
Die head, Self-opening. A. F. Breitenstein. 1,753,848; Apr. 8.
Die-sinking or engraving machine. J. E. Johnson. 1,753,206; Apr. 8.
Direction finding. B. R. Hubbard. 1,753,418; Apr. 8.
Disconnecting coupling. A. Peterson. 1,753,800; Apr. 8.
Dispenser, Grease. C. R. Buchet. 1,753,849; Apr. 8.
Dispensing apparatus, Liquid-. R. Westberg and E. Timm. 1,753,278; Apr. 8.
Dispensing device. R. L. Cornelius. 1,754,084; Apr. 8.
Dispensing device. J. R. Umstead. 1,753,585; Apr. 8.
Displacement apparatus. A. C. Durdin, jr. 1,753,556; Apr. 8.
Display and merchandising system. R. Miller. 1,753,663; Apr. 8.
Display apparatus, Merchandise-. B. N. MacGregor. 1,754,113; Apr. 8.
Display device. F. W. Gibson. 1,754,199; Apr. 8.
Displaying variable information, Indicating device for. A. Hinkel. 1,753,786; Apr. 8.
Distributing device. W. B. C. Washburn. 1,753,957; Apr. 8.
Distribution means for pulverulent material. C. Skentelbery and G. R. Alden. 1,754,124; Apr. 8.
Door construction for stove casings. C. L. Gohmann. 1,754,096; Apr. 8.
Door construction, Refrigerator-. H. D. Geyer. 1,753,567; Apr. 8.
Door for radiant gas heaters. A. F. Thompson. 1,753,673; Apr. 8.
Door for vehicle bodies, Rear. J. R. Scherer. 1,753,907; Apr. 8.
Door, Metal car. F. C. Heinen and W. W. Darrow. 1,753,375; Apr. 8.
Door-operating device. E. Krohn and V. A. Lillquist. 1,753,272; Apr. 8.
Door-operating device for stoves and furnaces. C. L. Gohmann. 1,754,095; Apr. 8.
Door operator, Garage-. A. Herr. 1,753,340; Apr. 8.
Door, Refrigerator. C. C. Spreen. 1,753,952; Apr. 8.
Door, Sealing. W. H. D'Ardenne. 1,753,774; Apr. 8.
Doorcheck. D. R. Lasier. 1,753,214; Apr. 8.
Dough-cutting machine. T. Piekos. 1,753,217; Apr. 8.
Dough-molding machine. F. H. Van Houten. 1,753,393; Apr. 8.
Drafting outfit. W. E. White. 1,753,760; Apr. 8.
Drag for recovering dead bodies and the like. G. R. McAlpine. 1,753,468; Apr. 8.
Drain, Roof. J. C. Cromwell. 1,753,262; Apr. 8.
Drawing press. J. E. Dobson. 1,753,695; Apr. 8.
Drawing press. R. J. Pardee. 1,753,717; Apr. 8.
Drawings, Producing. K. K. Knecht. 1,753,344; Apr. 8.
Drill: *See*—
Subaquatic drill.
Driving mechanism for turntables of talking machines. J. W. Dyer. 1,753,505; Apr. 8.
Duplicating machine. W. K. Moll. 1,753,442; Apr. 8.
Dust from gases, Apparatus for separating. A. Stievenart. 1,754,126; Apr. 8.
Dyestuff. Aso. H. Wagner, E. Hoffa, E. Runne, E. Thoma, and H. Heyna. 1,754,070; Apr. 8.
Egg boiler, Automatic. P. P. Chapin and W. J. Kupec. 1,753,740; Apr. 8.
Egg rack. A. J. Hyde. 1,754,020; Apr. 8.
Egg-testing device. A. Vesperman. 1,753,488; Apr. 8.
Electric bulbs, Base construction for. A. C. Korte, S. Redeker, and K. Mahnke. 1,753,609; Apr. 8.
Electric furnace. E. Bornand and H. A. Schlaepfer. 1,754,142; Apr. 8.
Electric heater. G. Eaton. 1,753,601; Apr. 8.
Electric heating apparatus, Automatic. F. W. Andrews. 1,753,190; Apr. 8.
Electric indicating instrument. M. E. Cheney. 1,753,917; Apr. 8.
Electric machine, Dynamo-. W. E. Richard. 1,753,583; Apr. 8.
Electric machine, Polyphase commutator dynamo-. A. Heyland. 1,754,017; Apr. 8.
Electric packer. M. A. Harris. 1,753,412; Apr. 8.
Electric switch. F. W. Gay. 1,753,650; Apr. 8.
Electric switch. H. E. Norviel. 1,753,620; Apr. 8.
Electric switch. H. E. Norviel and V. Ecoff. 1,753,621; Apr. 8.
Electric switch. F. H. Prescott. 1,753,624; Apr. 8.
Electric tube, Vacuum. E. Y. Robinson. 1,754,120; Apr. 8.
Electrical control system. J. C. McDonald. 1,753,383; Apr. 8.
Electrical fitting. F. A. Tefft. 1,754,066; Apr. 8.
Electrical system for secret transmission. J. C. Steinberg. 1,753,353; Apr. 8.
Electrode suitable for arc welding. F. Meunier. 1,754,116; Apr. 8.
Electron-discharge device. A. Mavrogenis. Re17,640; Apr. 8.
Electroplating bath. J. Bedo. 1,754,075; Apr. 8.
Electroresponsive device. A. S. Fits Gerald. 1,754,154; Apr. 8.
Emergency heater. W. A. Brown. Re17,687; Apr. 8.
Emulsions, Breaking. J. W. Beckman. 1,753,641; Apr. 8.
End gate. C. H. Arntzen. 1,753,637; Apr. 8.
Engine: *See*—
Internal-combustion engine. Steam engine.
Engine. H. Ford. 1,753,825; Apr. 8.
Engine. E. A. Stalker. 1,753,759; Apr. 8.
Engine and operating same, Internal-combustion. A. A. Tacchella. 1,753,253; Apr. 8.
Engine filter clothing, Prepared automotive. E. J. Sweetland. 1,753,277; Apr. 8.
Engines when the main supply is cut off, Apparatus for supplying steam to. R. Wood. 1,754,184; Apr. 8.
Envelope opener. C. A. Mayer. 1,753,710; Apr. 8.
Evaporator for refrigerating plants. E. Freundlich. 1,753,856; Apr. 8.
Excavating tooth. L. W. Van Buskirk. 1,753,392; Apr. 8.
Exercising apparatus. H. O. Costello. 1,753,309; Apr. 8.
Exhibitor, Changeable. W. J. Gray. 1,753,603; Apr. 8.
Exterminator, Insect. E. R. Collins, A. B. Eberhart, and W. A. Gillentine. 1,754,088; Apr. 8.
Extractor: *See*—
Liquid extractor.
Extractor. A. Partlow. 1,753,215; Apr. 8.
Eye-examining instrument. F. McFadden. 1,754,082; Apr. 8.
Fabric for technical purposes. E. V. Asten and H. N. Hill. 1,753,845; Apr. 8.
Fabric-rubbing roller. P. Edlich. 1,753,201; Apr. 8.
Fabrics, Method and apparatus for finishing. I. L. Sjöström. 1,753,251; Apr. 8.
Fabrics, Treating. L. Seidell and G. B. Jack, jr. 1,753,447; Apr. 8.
Fastener. F. S. Carr. 1,754,209; Apr. 8.
Fastener. M. F. Carr. 1,754,210; Apr. 8.
Fastener, Clothesline. F. H. Neuberger. 1,753,901; Apr. 8.
Fastener for storm windows, Adjustable. H. P. Welna. 1,753,542; Apr. 8.
Fastener, Self-locking slide. E. D. Janes. 1,754,200; Apr. 8.
Fastener, Strap. B. Colavecchio. 1,753,918; Apr. 8.
Fastener with attached resilient socket, Slide. P. E. Fenton. 1,753,696; Apr. 8.
Faucet. L. G. Schimmel. 1,753,535; Apr. 8.
Feed apparatus. D. S. Sammis. 1,754,121; Apr. 8.
Feeding mechanism. R. T. Banks. 1,754,159; Apr. 8.
Fibrous material, Method of and Mechanism for working. J. N. Selvig. 1,753,948; Apr. 8.
Fibrous-sheet production. C. L. Keller. 1,754,024; Apr. 8.
Filling guide, Saw. C. N. Grant. 1,753,701; Apr. 8.
Filter, Air. A. M. Goodloe. 1,753,653; Apr. 8.
Filter, Coffee. G. Galvino. 1,754,146; Apr. 8.
Filter, Oil. C. R. Short. 1,753,809; Apr. 8.
Filtering and decanting apparatus. C. Piccardo. 1,753,577; Apr. 8.
Fire alarm. J. S. Cawthon. 1,753,361; Apr. 8.
Fire escape. C. E. Martin. 1,753,798; Apr. 8.
Fire kindler. F. A. Taschner. 1,753,390; Apr. 8.
Fire protection, Oil-tank. W. D. Witter. 1,754,005; Apr. 8.
Fish-cutting machine. E. A. Gallison. 1,754,157; Apr. 8.
Fixture for roller screens or shades. E. C. Philipps. 1,753,751; Apr. 8.
Flange oiling and safety device. G. W. Grismore. 1,753,410; Apr. 8.
Flash-light attachment. N. Meroussis. 1,753,614; Apr. 8.
Flexible joint. G. Flintermann. 1,753,985; Apr. 8.
Floor-surfacing machine. G. T. Hills. 1,753,376; Apr. 8.
Floral case. J. K. Bond. 1,753,594; Apr. 8.
Flow meter. W. Melas. 1,753,469; Apr. 8.
Fluid-distributing apparatus. W. Howell and G. Sherburne. 1,753,240; Apr. 8.
Fluids with solid substances, Treatment of. T. T. Gray. 1,753,859; Apr. 8.
Flushing apparatus. F. Opperman. 1,753,997; Apr. 8.
Flywheel. J. F. Daukus. 1,753,365; Apr. 8.
Foam, Apparatus for producing. J. A. Rice. 1,753,429; Apr. 8.
Folding device. H. W. Orndoff. 1,754,038; Apr. 8.
Folding machine. W. L. Dixon. 1,753,648; Apr. 8.
Folding machine. F. E. Munschauer. 1,753,212; Apr. 8.
Football helmet. A. Dickman. Des. 80,880; Apr. 8.
Fork: *See*—
Meat fork.
Fountain: *See*—
Water fountain.
Foxing-cementing machine. S. W. Bourn. 1,753,498; Apr. 8.

Frame and making the same, Wire-screen. R. E. Blackburn. 1,753,683; Apr. 8.
Frame for pictures, mirrors, and the like. J. Manoli. Des. 80,901; Apr. 8.
Friction brake. J. Keeney. 1,753,466; Apr. 8.
Fruit-picker's bag. H. Hammock and G. Riddle. 1,754,100; Apr. 8.
Fruits and vegetables, Treating. J. J. Nevills. 1,753,902; Apr. 8.
Fuel for internal-combustion engines. R. John. 1,753,264; Apr. 8.
Fueling system. T. Bossard. 1,753,199; Apr. 8.
Fumigating compound and producing the same. K. F. Cooper. 1,754,148; Apr. 8.
Funnel, Filtering. C. R. Owens. Re17,641; Apr. 8.
Furnace: *See*—
Boiler furnace. Electric furnace.
Furnace. J. R. Doherty. 1,753,286; Apr. 8.
Furnace and operating the same. T. G. Coghlan and E. A. Johnsen. 1,753,363; Apr. 8.
Furnace construction. F. H. Waite and G. W. Davey. 1,753,842; Apr. 8.
Furnace for reducing metals. G. C. Cox and H. K. McIntyre. 1,753,822; Apr. 8.
Furnace grate. W. M. Duncan. 1,753,869; Apr. 8.
Furnaces, Conveyer for heat-treating. C. A. Barrett. 1,753,679; Apr. 8.
Furniture, Built-in. L. A. Kroschel. 1,753,423; Apr. 8.
Furniture capable of being superposed, Pieces of. J. H. Porche. 1,753,623; Apr. 8.
Furniture glide. W. R. Darnell. 1,753,599–600; Apr. 8.
Fuse. L. S. Foo. 1,754,166; Apr. 8.
Game apparatus. E. R. Uchiyama. 1,754,130; Apr. 8.
Garment hanger. J. S. Scharf. 1,753,667; Apr. 8.
Gas and steam producer generator. J. Bellay. 1,753,847; Apr. 8.
Gas burner. S. Lonergan. 1,753,962; Apr. 8.
Gas burner. P. W. McCoy. 1,753,613; Apr. 8.
Gas-controlling device. R. R. Root. 1,753,968; Apr. 8.
Gaseous mixtures, Control of proportions of components of. W. R. Schofield, jr., and R. D. Milner. 1,753,319; Apr. 8.
Gases, Apparatus and method for testing. R. B. Wasson. 1,753,675; Apr. 8.
Gases, Purifying rare. R. E. Miesse. 1,753,298; Apr. 8.
Gasoline solvent, Apparatus for recovering. A. L. Dorfner. 1,753,881; Apr. 8.
Gate: *See*—
End gate.
Gate or door opening appliance. W. J. Hammond. 1,753,512; Apr. 8.
Gauge: *See*—
Rule gauge. Speed gauge.
Gear-box brake. L. G. Merritt. 1,753,384; Apr. 8.
Gear, Retractable landing. D. J. Brimm, jr. 1,753,770; Apr. 8.
Gear shift, Automatic. W. G. Jones. 1,754,212; Apr. 8.
Gear, Transmission. C. W. Herzog. 1,753,784; Apr. 8.
Gearing, Transmission. C. E. F. Ahlm and G. M. Soule. 1,753,398; Apr. 8.
Gem setting. H. G. Kaufman. Des. 80,895; Apr. 8.
Generator: *See*—
Acetylene generator.
Glass: *See*—
Heat-resisting glass. Laminated glass.
Glass, Apparatus for drawing sheet. H. L. Halbach. 1,753,291; Apr. 8.
Glass apparatus, Sheet-. M. Zadorozny. 1,753,766; Apr. 8.
Glass edge-forming means, Sheet-. L. Mambourg. 1,753,749; Apr. 8.
Glass-fabricating mechanism. E. O. Hiller. 1,753,655; Apr. 8.
Glass, Method and apparatus for drawing sheet. J. L. Drake. 1,753,743; Apr. 8.
Glass, Method and apparatus for forming sheet. J. C. Blair. 1,753,768; Apr. 8.
Glass, Producing sheet. E. T. Ferngren. 1,753,779; Apr. 8.
Glassware, Apparatus for annealing. T. Wardley and H. V. E. M. Renn. 1,754,193; Apr. 8.
Glide. C. W. White. 1,753,976; Apr. 8.
Globe for lighting fixtures. I. M. Schaffer. Des. 80,914; Apr. 8.
Golf driving mat. M. D. Hanson. 1,753,654; Apr. 8.
Governor control. C. H. Knudsen. 1,753,436; Apr. 8.
Grasp bar. M. S. Weber. Des. 80,927; Apr. 8.
Grease absorber. G. Klein. 1,754,110; Apr. 8.
Grille. G. W. Ackerman. Des. 80,872; Apr. 8.
Grinding and abrasing machine. H. H. Asbridge. 1,754,140; Apr. 8.
Grinding machinery. H. H. Asbridge. 1,754,139; Apr. 8.
Grinding machines, Workholder for bar-. F. K. Benedict. 1,753,590; Apr. 8.
Grinding wheel and mounting the same. T. A. Jackson. 1,753,377; Apr. 8.
Guard finger and ledger plate. C. F. Hover. 1,753,293; Apr. 8.
Guard for hooks and the like, Safety. J. C. Yingling. 1,753,826; Apr. 8.
Guide for vine cutters. G. L. McCready. 1,753,712; Apr. 8.
Guns, Loading device for semiautomatic naval. R. de Coursenilles. 1,753,850; Apr. 8.
Guy rod and making it. C. L. Peirce, jr. 1,753,216; Apr. 8.
Hair clipper. M. W. McArdle and J. H. Donnellon. 1,753,750; Apr. 8.
Hair-cutting apparatus. G. Girard. 1,753,652; Apr. 8.
Hairdressing device. L. M. Noto. 1,753,314; Apr. 8.
Hammer, Automatic tack. W. D. Burger. 1,753,499; Apr. 8.
Hammer, Rotary pivoted. J. P. Polster. 1,753,473; Apr. 8.
Hammer, Rotary pivoted. J. P. Polster. 1,753,475; Apr. 8.
Hand or angle piece for dental purposes. H. Stark. 1,753,352; Apr. 8.
Handle structure. G. Graff and H. B. Haskins, and G. E. Gunther. 1,753,700; Apr. 8.
Handsaw, Combination. W. J. Morren. 1,754,035; Apr. 8.
Hanger: *See*—
Garment hanger.
Harrow. J. M. Hjermstad. 1,754,103; Apr. 8.
Harrow, Disk. J. E. Boda. 1,753,198; Apr. 8.
Harvester, Onion. W. L. Taylor. 1,753,874; Apr. 8.
Headlight, Automobile. C. L. Bigbee and J. Couch. 1,754,141; Apr. 8.
Heat-exchange apparatus. C. E. Safford. 1,753,318; Apr. 8.
Heat-insulating jacket. R. C. Washburn. 1,753,813; Apr. 8.
Heat-resisting glass, Colored. W. C. Taylor. 1,754,065; Apr. 8.
Heat-resisting glass, Colored. W. C. Taylor. 1,754,182; Apr. 8.
Heater: *See*—
Aeroplane-wing heater. Emergency heater.
Automobile body heater. Shoe heater.
Automobile heater. Space heater.
Electric heater.
Heater for motor vehicles and the like, Crank-case. A. L. Briggs and H. Sauers. 1,754,080; Apr. 8.
Heating apparatus. J. E. Bell. 1,753,192; Apr. 8.
Heating device such as soldering irons, Self-. I. Cowles. 1,753,741; Apr. 8.
Heating system, Solar water-. H. A. Wheeler, F. J. Bentz, and J. L. Mason. 1,753,227; Apr. 8.
Heating unit, Tubular. C. T. Johnson-Vea and W. A. Braun. 1,754,003; Apr. 8.
Heel. A. W. Carlson. 1,753,692; Apr. 8.
Heel-clamping device. L. S. Macdonald. 1,753,425; Apr. 8.
Heel for shoes. D. R. Cropp. 1,753,284; Apr. 8.
Hides and skins, Unhairing. H. M. Ullmann and E. R. Theis. 1,753,530; Apr. 8.
Hinge. J. Fisher. 1,754,013; Apr. 8.
Hinge. C. L. Morgan. 1,754,175; Apr. 8.
Hinge attachment for kitchen utensils. H. Kohlman. 1,753,990; Apr. 8.
Hoisting and weighing means. H. F. Ruggles. 1,753,753; Apr. 8.
Holddown, Nonadjustable. F. L. Seeley. 1,753,838; Apr. 8.
Holder and bag dispenser, Bag. W. W. Irving. 1,753,569; Apr. 8.
Holder and handle, Blade. J. A. Gaffney. 1,753,459; Apr. 8.
Holder, Bag. E. P. Donnellan. 1,753,852; Apr. 8.
Holder, Nursing-bottle. H. H. Baumann. 1,753,875; Apr. 8.
Holder, Picture. A. Dorsey. 1,753,555; Apr. 8.
Hood. H. F. Shaw. 1,753,629; Apr. 8.
Hood ledge plate and multiple-compartment hood for automobiles. K. Felicke. 1,754,086; Apr. 8.
Hook: *See*—
Box hook. Plate-conveying hook.
Chain hook. Spoon hook.
Hook. C. L. Waid. 1,754,071; Apr. 8.
Hopper, Automatic measuring. H. H. Barber. 1,753,546; Apr. 8.
Hornlike material, Manufacture of. J. Schlinck and G. Münchmeyer. 1,753,626; Apr. 8.
Hosiery. J. M. Allen. 1,754,185; Apr. 8.
Hothouses, Utilizing the waste space in. E. Baumgartner. 1,753,980; Apr. 8.
Hub for steering wheel. H. J. Earl, R. W. Pew, and J. J. Tjaarda. Des. 80,884; Apr. 8.
Hydraulic press. J. De Francisci. 1,753,742; Apr. 8.
Hydrocarbons, Cracking. E. W. Isom. 1,753,432; Apr. 8.
Ice block and mold for forming same. S. B. Reed. 1,753,940; Apr. 8.
Ignition apparatus. H. L. Hartzell. 1,753,604; Apr. 8.
Ignition-switch lock. F. W. Andrew and W. Hemingway, jr. 1,753,734; Apr. 8.
Ignition timer. J. T. Fitzsimmons. 1,753,564; Apr. 8.
Index tab for record guides. E. W. Davis. 1,753,285; Apr. 8.
Indexing mechanism for chase plates and printing segments. F. H. Poeppelmeier. 1,753,428; Apr. 8.
Indicator: *See*—
Oil-change indicator. Time indicator.
Road indicator.
Inductance system. L. A. Gebhard. 1,753,408; Apr. 8.
Insect repellant. J. Glover. Des. 80,888; Apr. 8.
Insecticides, Manufacture of. W. H. Groombridge. 1,753,887; Apr. 8.

Instrument for drafting irregular curves. A. Gasparich. 1,753,698; Apr. 8.
Insulating sleeves, Preparing. T. C. Reed and D. Odell. 1,753,869; Apr. 8.
Insulator and mold for casting the same. H. L. J. Haquin. 1,754,101; Apr. 8.
Internal-combustion engine. E. Becker. 1,753,196; Apr. 8.
Internal-combustion engine. R. Ware. 1,753,226; Apr. 8.
Ironing machine. J. Prachar. 1,753,939; Apr. 8.
Ironing machine. J. Prachar. 1,753,964; Apr. 8.
Jack: *See*—
Scaffold jack.
Jar or similar container. W. D. Teague. Des. 80,917–18; Apr. 8.
Joint: *See*—
Flexible joint. Welded joint.
Joint construction. J. Vaaler. 1,753,487; Apr. 8.
Ketones of the aromatic series and making same, Cyclic. F. Mayer, K. Billig, K. Horst, and K. Schirmacher. 1,754,031; Apr. 8.
Key, Positively-locked coupler cross. A. P. Householder and H. M. Kelly. 1,753,292; Apr. 8.
Keyboard operator. L. W. Langford. 1,753,991; Apr. 8.
Kiln and drying lumber, Progressive dry. J. B. Welch. 1,753,974; Apr. 8.
Kneeling pad. W. Holmes. 1,753,606; Apr. 8.
Knitting machine, Circular-. F. L. Elliott. 1,754,151; Apr. 8.
Knitting machines, Master testing card for jacquard. F. Hug. 1,753,343; Apr. 8.
Knockdown fight ring. L. Barnes. 1,753,328; Apr. 8.
Lacquering machine and oven. A. Podel. 1,753,908; Apr. 8.
Lacquers, Finishing surfaces with cellulose nitrate. H. C. Mougey. 1,753,616; Apr. 8.
Laminated fabric, Making. E. A. Ross. 1,753,806; Apr. 8.
Laminated glass. F. Fraser. 1,753,744; Apr. 8.
Lamp and lamp hood and connection for electric signs. W. L. Laib. 1,753,209; Apr. 8.
Lamp, Arc. L. C. Leoty. 1,753,242; Apr. 8.
Lamps, Lamp hood for electric. W. L. Laib. 1,753,273; Apr. 8.
Lantern or similar article. O. Hoffmann. Des. 80,893; Apr. 8.
Latch. E. Meininghaus. 1,753,714; Apr. 8.
Latch, Excavator-dipper. A. T. Hansen. 1,753,513; Apr. 8.
Lath, Sheet. G. A. Buttress. 1,753,598; Apr. 8.
Lathe, Last. L. E. Topham. 1,753,391; Apr. 8.
Latticework, Unit for assembling. H. Junkers. 1,753,706; Apr. 8.
Laundry bag, Locked. G. F. Thaxton. 1,753,254; Apr. 8.
Lavatory. J. R. Mayhew. Des. 80,903; Apr. 8.
Lead arsenate from fruit, Removing. A. R. Maas. 1,754,173; Apr. 8.
Leaf-handling machinery. J. Gough. 1,753,373; Apr. 8.
Leather-finishing compound. O. F. W. Cromwell. 1,753,694; Apr. 8.
Leg rest for the drivers of motor cars. H. B. Dickens. 1,753,267; Apr. 8.
Level indicator for mineral-oil stills. A. E. Pew, jr. 1,753,803; Apr. 8.
Leveling machine. H. A. Davenport. 1,753,404; Apr. 8.
Lid for refrigerating cabinets. J. R. Replogle. 1,753,946; Apr. 8.
Lid or cover fastener for milk cans. E. B. Atkinson. 1,754,074; Apr. 8.
Lifter: *See*—
Vine lifter.
Light control for photographic printing machines. N. B. Green. 1,754,204; Apr. 8.
Light for an automotive vehicle, Rear-corner. W. Schnell and W. H. Hollindale. Des. 80,915; Apr. 8.
Light mechanism, Framing-. A. Dina. 1,753,647; Apr. 8.
Lighter, Cigar. S. E. Guinn. Des. 80,889; Apr. 8.
Lighter, Pyrophoric hand. K. F. Projahn. 1,753,835; Apr. 8.
Lighting fixture. A. G. Steinmayer. 1,754,001; Apr. 8.
Lighting fixture or article of similar nature. I. Rosenblatt. Des. 80,911–13; Apr. 8.
Lighting fixture or similar article. O. Hoffmann. Des. 80,894; Apr. 8.
Lighting fixtures, Bowl-holding means for. E. F. Guth. 1,753,374; Apr. 8.
Lightning arrester. V. F. Goodwin. 1,754,155; Apr. 8.
Link for chains, Connecting. S. D. Port. 1,754,042–3; Apr. 8.
Lip-protecting, Holdfast. P. Fabian. 1,754,165; Apr. 8.
Liquid-cooling system. D. H. Ebinger. 1,753,236; Apr. 8.
Liquid extractor. W. K. Ackerman. 1,753,732; Apr. 8.
Liquid-fuel burner. J. M. Brown. 1,753,360; Apr. 8.
Liquid partial-oxidation product mixtures and products thereof, Treating. J. H. James. 1,753,516; Apr. 8.
Liquid partial-oxidation products, Treating. J. H. James. 1,753,517; Apr. 8.
Liquids of different densities, Apparatus for separating. F. Pink. 1,754,119; Apr. 8.
Liquor which contains sodium hydroxide, Production of cooking. L. Bradley and E. P. McKeefe. 1,754,208; Apr. 8.
Liquors, Stabilizing bleaching. F. Draisbach. 1,754,163; Apr. 8.
Liquors, Treatment of residual. L. Bradley and E. P. McKeefe. 1,754,207; Apr. 8.
Loading machine. N. A. Newdick. 1,753,246; Apr. 8.
Lock: *See*—
Bed-rail lock. Rail lock.
Ignition-switch lock. Vehicle lock.
Lock for counterbalanced elevator doors, Center. C. W. Peelle. 1,753,664; Apr. 8.
Lock washer, Noninterlinking nut-. H. E. Norwood. 1,753,313; Apr. 8.
Locking device for automotive vehicles and the like. G. J. Meuer. 1,753,347; Apr. 8.
Locking means for caskets, shipping cases, and the like, Top-. L. A. Powell. 1,754,045; Apr. 8.
Locomotive draft appliance. E. L. Schellens. 1,753,906; Apr. 8.
Locomotive front end. E. L. Schellens and J. S. Coffin, jr. 1,753,905; Apr. 8.
Locomotive tender. J. E. Muhlfeld. 1,753,211; Apr. 8.
Locomotive-whistle-operating mechanism. C. D. Rafferty. 1,754,046; Apr. 8.
Loom. J. Thexton, jr., and H. Tomlinson. 1,753,457; Apr. 8.
Loom. J. Thexton, jr., and H. Tomlinson. 1,753,840; Apr. 8.
Loom crank-shaft box-cap bearing. I. D. Bridges. 1,754,195; Apr. 8.
Loom, Shuttle-changing. A. J. Chevrette. 1,753,233; Apr. 8.
Looms, Let-off mechanism for. C. H. Draper. 1,754,196; Apr. 8.
Looms, Weft carrier for weft-replenishing. C. H. Draper. 1,754,197; Apr. 8.
Lubricating system. A. F. Garbarino. 1,753,460; Apr. 8.
Lubricating system. O. U. Zerk. 1,753,494; Apr. 8.
Lubricator. S. H. Paxton. 1,753,718; Apr. 8.
Machine for alimentary pastes, Folding. C. Ambrette. 1,753,733; Apr. 8.
Machine for and method of finishing bushings. H. M. Williams and C. L. Lee. 1,753,632; Apr. 8.
Machine for applying reenforcements to clothespins. S. Bower. 1,753,916; Apr. 8.
Machine for cutting bias strips. W. H. Camfield. 1,753,645; Apr. 8.
Machine for cutting glass cane or tubes. C. A. Brown and A. C. Nielsen. 1,754,143; Apr. 8.
Machine for cutting off pipes and the like. R. E. Hyde and D. Schappi. 1,753,704; Apr. 8.
Machine for cutting wire and the insulation thereof. R. J. Emmert. 1,753,561; Apr. 8.
Machine for forming strips for store-front construction. F. and I. Himmel. 1,753,829; Apr. 8.
Machine for making spools or bobbins. E. Schweizer. 1,753,628; Apr. 8.
Machine for producing seamless bodies, sweetmeats, and others from plastic masses. M. Pönisch. 1,753,834; Apr. 8.
Machine for truing grinding wheels. C. S. Smith. 1,753,448; Apr. 8.
Manifold forms, Method and apparatus for making. L. J. Willard. 1,753,764; Apr. 8.
Manifolding. A. W. Metzner. 1,754,034; Apr. 8.
Manifolding device. J. Q. Sherman and A. W. Metzner. 1,754,057; Apr. 8.
Marine boiler. O. H. Hartmann and H. Peperkorn. 1,754,167; Apr. 8.
Marker for bank pass and other books and holder for checks of check folds. P. A. Getz. 1,754,093; Apr. 8.
Marker for plants, flowers, and the like. F. W. Wolff. 1,753,960; Apr. 8.
Marking device. H. E. Edwards. 1,753,884; Apr. 8.
Mast arm. P. H. Chase. 1,754,082; Apr. 8.
Mat: *See*—
Golf driving mat.
Match card and cover. J. Stirlss. 1,754,060; Apr. 8.
Match package. R. A. Novinsky and E. O. Barton. 1,754,036; Apr. 8.
Material reducing and means therefor. H. G. Lykken. 1,753,437; Apr. 8.
Matrix-cleaning machine. D. L. Liddle. 1,753,248; Apr. 8.
Mattress. M. Bechik. 1,753,859; Apr. 8.
Measuring and cutting punch, Tire-flap hole. H. J. Spalding. 1,753,305; Apr. 8.
Measuring and indicating efficiencies, Apparatus for. O. A. Pawlick and R. C. Giese. 1,754,039; Apr. 8.
Measuring apparatus, Electrical. C. Travis. 1,753,486 Apr. 8.
Measuring instrument, Electric. M. E. Cheney. 1,753,402; Apr. 8.
Measuring instrument, Electric. H. T. Faus. 1,754,085; Apr. 8.
Measuring instruments, Series-resistance for electric. W. Espe. 1,754,152; Apr. 8.
Measuring pressure. C. A. Sabbah. 1,754,180; Apr. 8.
Meat cure, Manufacturing. E. H. Wright. 1,753,858; Apr. 8.
Meat fork. A. T. Woods. 1,753,815; Apr. 8.
Medical apparatus, Electrogalvanic. A. Fischer. 1,753,854; Apr. 8.
Metal, Apparatus for the reduction of impurities contaminating molten. L. Jones. 1,753,891; Apr. 8.
Metal bodies, Forming and knurling. O. U. Zerk. 1,753,258; Apr. 8.
Metal envelope for aircraft planes. C. Dornier. 1,753,823; Apr. 8.

Metal-scouring machines, Scouring chamber for. C. A Dreisbach. 1,753,883; Apr. 8.
Metal spools, Making. J. G. Jones. 1,754,205; Apr. 8.
Metal-working process and apparatus. A. C. Andresen 1,753,677; Apr. 8.
Metallic coatings, Testing. K. Pitschner. 1,753,301 Apr. 8.
Metals as oxides, Recovering gasifiable. F. Johannsen. 1,754,169; Apr. 8.
Metals, Electrolytic recovery of. S. C. Smith. 1,754,125 Apr. 8.
Meter: *See*—
Flow meter.
Meter. F. H. Best. 1,753,230; Apr. 8.
Meter. M. Cornell. 1,753,552; Apr. 8.
Meter for transmission testing. F. H. Best. 1,753,231; Apr. 8.
Metering device. H. E. Bragg. 1,753,330; Apr. 8.
Mill: *See*—
Rolling mill.
Mill pulverizer. J. P. Polster. 1,753,474; Apr. 8.
Mills, Discharge means for tube or ball. P. Bodenstein. 1,753,685; Apr. 8.
Mine tie, Reenforced. J. J. Ross. 1,753,534; Apr. 8.
Miter for base screeds, Corner. J. H. Bowman. 1,753,596; Apr. 8.
Miter for screeds, Corner. J. H. Bowman. 1,753,595; Apr. 8.
Mixer: *See*—
Concrete mixer.
Mixer for concrete. J. M. Owen. 1,753,716; Apr. 8.
Mixer, Shell for transit mixers. E. T. Tuller. 1,753,730; Apr. 8.
Mold: *See*—
Chilling mold.
Mold. S. Flam. 1,754,087; Apr. 8.
Molding apparatus. L. D. Kay. 1,753,608; Apr. 8.
Molds, Manufacture and repair of centrifugal. F. C. Langenberg. 1,753,747; Apr. 8.
Monitoring system. J. B. Newsom. 1,753,348; Apr. 8.
Mop. J. B. Hardie. 1,753,514; Apr. 8.
Motion mechanism, Straight-line. W. K. Rankin. 1,754,179; Apr. 8.
Motor: *See*—
Valve motor.
Motor-control system for elevators and the like. E. W. Seeger. 1,753,851; Apr. 8.
Mower, Lawn. C. A. Blackburn. 1,754,076; Apr. 8.
Mower, Lawn. H. T. Coldwell. 1,754,188; Apr. 8.
Mowers, Attachment for lawn. W. Edwards. 1,753,558; Apr. 8.
Mud-guard attachment. W. A. Cookson. 1,754,147; Apr. 8.
Name and number plate, Illuminated. E. A. and F. A. Thomas. 1,754,067; Apr. 8.
Naphthisatin compounds, Making. J. Haller. 1,754,098; Apr. 8.
Net having square-shaped meshes, Intertwisted. T. Yamamoto. 1,753,636; Apr. 8.
Nickel-plating apparatus. A. B. Schupp. 1,753,350; Apr. 8.
Nicotine and the product thereof, Reducing the poisonous effects of. A. J. Pacini. 1,754,117; Apr. 8.
Nonskid brake. J. W. Baillie. 1,753,588; Apr. 8.
Nozzles, Tip for spraying. J. D. Murray. 1,753,443; Apr. 8.
Nut. B. F. Kiesel. 1,753,791; Apr. 8.
Nuts, Forming lock. H. E. Burns. 1,753,597; Apr. 8.
Oil and water emulsions, Dehydration of. J. M. Cage. 1,754,009; Apr. 8.
Oil-burning apparatus. A. E. Grant. 1,753,782; Apr. 8.
Oil can. F. Borzi. 1,754,078; Apr. 8.
Oil can. G. Petrak. 1,754,041; Apr. 8.
Oil-change indicator. E. H. Shields and O. E. Suetterlin. 1,754,191; Apr. 8.
Oil-circulating system. J. L. Perkins and H. D. Croft. 1,754,040; Apr. 8.
Oil, Filtering mineral. D. L. Nael. 1,753,900; Apr. 8.
Oil, Process and apparatus for treating petroleum. A. G. Bogardus. 1,753,769; Apr. 8.
Oil separator. J. W. Cushman, J. D. Everett, and C. J. Farrell. 1,753,403; Apr. 8.
Oil-well control. W. C. Stollberg. 1,754,061; Apr. 8.
Oils into lighter products, Process and apparatus for converting heavy hydrocarbon. F. S. Woldich. 1,754,136; Apr. 8.
Ores and metallurgical products, slags, and the like, Treating. F. Johannsen. 1,754,170; Apr. 8.
Organs, Magnetic action for pipe. H. F. Waters and V. R. Brown. 1,753,323; Apr. 8.
Oven, Bake. H. A. Bodge and J. C. Emley. 1,753,914; Apr. 8.
Oven, Coking retort. J. van Ackeren. 1,754,131; Apr. 8.
Oxychloride and thionyl chloride, Manufacture of phosphorus. G. J. Schudel. 1,753,754; Apr. 8.
Package and method of sealing, Hermetically-sealed. A. Podel. 1,753,999; Apr. 8.
Packing and display box. S. B. and P. B. Townley and W. Laing. 1,753,954; Apr. 8.
Pad: *See*—
Kneeling pad.
Paper-cylinder-forming machines, Article-discharging and conveying apparatus for. W. R. Myers. 1,753,867; Apr. 8.
Paper, Making waterproof. G. A. Brown. 1,753,690; Apr. 8.
Paper pulp, Method of and apparatus for bleaching. R. B. Wolf and R. P. Hill. 1,753,228; Apr. 8.
Paper pulp, Sizing. J. A. De Cew. 1,753,775; Apr. 8.
Paper-pulp vessels for the protection thereof against the action of moisture, fat, soap, and the like, Coating. F. Frank. 1,753,565; Apr. 8.
Pencil, Mechanically-fed lead. R. C. Stowe. 1,754,002; Apr. 8.
Percolator, Electric. R. Koenig and W. S. Marvin. 1,753,863; Apr. 8.
Petroleum emulsions, Apparatus for breaking up. J. D. Brady. 1,754,079; Apr. 8.
Phase-changing apparatus. H. L. Tanner. 1,753,322; Apr. 8.
Phonograph and radiocabinet, Combined electrical. H. L. Griggs. 1,753,986; Apr. 8.
Phosphate, Manufacture of dicalcium. R. D. Pike. 1,753,478; Apr. 8.
Photographic-shutter blade-actuating mechanism. W. A. Riddell. 1,754,202; Apr. 8.
Photography, Color. W. V. D. Kelley. 1,753,379; Apr. 8.
Pianos, Bridge for. W. Schwechten. 1,753,389; Apr. 8.
Picker: *See*—
Cotton picker.
Picture apparatus, Talking-. F. H. Owens. 1,753,580; Apr. 8.
Picture-projecting device, Motion-. A. J. Timoney. 1,753,222; Apr. 8.
Pilot structure, Deflecting. W. L. Lentz. 1,753,794; Apr. 8.
Pin. C. G. King. 1,753,580; Apr. 8.
Pipe: *See*—
Smoking pipe.
Pipe coupling. H. Srulowitz. 1,754,127; Apr. 8.
Pipe sleeve. H. Paltrowitz. 1,753,386; Apr. 8.
Pipe, Unscrewing attachment for drill. A. E. Martois and R. D. Pearson. 1,753,244; Apr. 8.
Pipes and like cylindrical articles from the molds in which they are cast, Apparatus for extracting. J. E. Hurst and E. B. Ball. 1,754,106; Apr. 8.
Pipes, Combined retaining and spacing device for. G. F. McGookin. 1,754,033; Apr. 8.
Planer, Shale. J. M. Powell. 1,753,804; Apr. 8.
Planter, Seed. L. H. Kaupke. 1,753,520; Apr. 8.
Plastic blocks and the like, Apparatus for molding. G. C. Debay. 1,753,405; Apr. 8.
Plastic composition. A. R. Kemp. 1,753,746; Apr. 8.
Plate-conveying hook. G. Raymond. 1,753,578; Apr. 8.
Plotting apparatus. H. C. Ford. 1,753,761; Apr. 8.
Plug, Pipe-bend. E. K. Pierce. 1,753,587; Apr. 8.
Postal dispatching station, Tubular. W. Höhne. 1,753,988; Apr. 8.
Postal system, Tubular. W. Höhne. 1,753,987; Apr. 8.
Powder puff. L. Friedberg. 1,754,090; Apr. 8.
Power-amplifying machine. E. L. Schellens. 1,753,870; Apr. 8.
Power apparatus, Wave-. F. E. Lawrence. 1,754,025; Apr. 8.
Power-factor control of alternating-current asynchronous machines. J. L. Matabon and C. M. Foucault. 1,754,029; Apr. 8.
Power plant, Steam. F. I. du Pont. 1,753,335; Apr. 8.
Power take-off. J. M. Smygel. 1,753,727; Apr. 8.
Power-transmission mechanism. R. P. Higbee. 1,753,027; Apr. 8.
Power-transmitting apparatus, Hydraulic. R. K. Pierson and T. S. Duncan. 1,754,118; Apr. 8.
Press: *See*—
Drawing press. Printing press.
Hydraulic press.
Pressing machine, Garment-. B. W. Brockett. 1,753,877; Apr. 8.
Printing. W. Lobke. 1,753,932; Apr. 8.
Printing machine and operating the same, Block-. D. S. Holt. 1,753,265; Apr. 8.
Printing press. W. C. Buchanan and W. O. Tourjee. 1,753,821; Apr. 8.
Printing telegraph. G. S. Hiltz and W. F. Purcell. 1,753,656; Apr. 8.
Propeller and motor, Turbine-wheel. C. B. Strandgren. 1,753,252; Apr. 8.
Pruning shears. F. L. Walter. 1,753,225; Apr. 8.
Pump. J. Brensinger. 1,753,232; Apr. 8.
Pump. J. P. Ferris. 1,753,562; Apr. 8.
Pump for oil wells. C. E. Follis. 1,754,068; Apr. 8.
Pump or blower, Rotary. J. R. Richer. 1,753,476; Apr. 8.
Pump, Vacuum condensation. A. C. Durdin, jr. 1,753,557; Apr. 8.
Pumps, Liner puller for hydraulic. M. J. Staser. 1,754,059; Apr. 8.
Quick-break switch. E. M. Rothen. 1,753,317; Apr. 8.
Rack: *See*—
Broiler rack. Egg rack.
Rack. J. C. Drader. 1,753,778; Apr. 8.
Rack for garments and the like. S. Solomon and L. Levine. 1,753,725; Apr. 8.
Radiation apparatus. O. Gerhardt. 1,753,885; Apr. 8.
Radiator. L. H. Veronneau. 1,753,540; Apr. 8.
Radiator elements, Forming. J. Karmasin. 1,753,295; Apr. 8.
Radio aerial. E. Neinfeldt. 1,753,213; Apr. 8.
Radiocabinet. F. C. Burton. Des. 80,931; Apr. 8.

Radiocabinet or the like. N. S. Dunbar. Des. 80,882; Apr. 8.
Radiopanel. H. F. Elliott. Des. 80,886; Apr. 8.
Radio power supply device. P. E. Edelman. 1,753,920–1; Apr. 8.
Radio receiver control. W. E. Holland and D. P. Earnshaw. 1,754,105; Apr. 8.
Radio receiving system. L. Cohen. 1,753,308; Apr. 8.
Radio receiving systems, Annulling the effect of stray fields on. W. A. Loth. 1,753,610; Apr. 8.
Radio signaling system, Short-wave. R. S. Ohl. 1,753,715; Apr. 8.
Radiotube. C. F. W. Bates. 1,753,260; Apr. 8.
Radium emanation, Applying. G. Failla. 1,753,287; Apr. 8.
Rail filler. A. C. Fischer. 1,753,563; Apr. 8.
Rail lock. F. G. Breese. 1,754,155; Apr. 8.
Railroad tie. H. G. and H. C. Filler. 1,753,649; Apr. 8.
Rattle with handle having flexible section. A. Zadek. 1,753,493; Apr. 8.
Razor. H. A. Kaufmann. 1,753,422; Apr. 8.
Receptacle for razor blades. F. W. Kirsten. 1,753,269; Apr. 8.
Receptacle for silverware. C. W. Burnham. 1,753,878; Apr. 8.
Receptacle, Waste. H. J. Melville. 1,753,210; Apr. 8.
Reel: *See*—
Casting reel.
Reel. E. J. Hubbard. 1,753,842; Apr. 8.
Reflecting and scanning apparatus. D. B. Gardner. 1,753,697; Apr. 8.
Refrigerating apparatus. G. Muffly. 1,753,802; Apr. 8.
Refrigerating apparatus. J. R. Replogle. 1,753,943; Apr. 8.
Refrigerating mechanism. T. J. Litle, jr. 1,753,797; Apr. 8.
Refrigeration. T. J. Litle, jr. 1,753,796; Apr. 8.
Refrigeration apparatus, Air-cooled. J. R. Replogle. 1,753,944; Apr. 8.
Register: *See*—
Cash register.
Registers, Elastic drive for cash. W. H. Robertson. 1,753,479; Apr. 8.
Regulating apparatus. C. M. Terry. 1,753,728; Apr. 8.
Regulating device. A. Bargeboer. 1,753,678; Apr. 8.
Regulator: *See*—
Temperature regulator.
Regulator for controlling fluid pressure in submerged machines. H. Sauveur. 1,753,625; Apr. 8.
Relay, Alternating-current. V. P. Thorp. 1,753,256; Apr. 8.
Relay, Electrical. P. N. Bossart. 1,753,689; Apr. 8.
Relay, Electrical. P. P. Sosinski. 1,753,726; Apr. 8.
Releasing coupling. F. W. Reimold. 1,754,048; Apr. 8.
Resilient wheel. L. P. Miller. 1,753,527; Apr. 8.
Retouching device. P. F. Boyd. 1,753,876; Apr. 8.
Rims of motor-vehicle steering wheels, Manufacture of the. G. Warwick. 1,753,586; Apr. 8.
Ring: *See*—
Knock-down fight ring.
Road indicator. T. J. Smulski. 1,753,758; Apr. 8.
Road marker. G. W. Bettes. 1,753,593; Apr. 8.
Rod fastening, Tie-. S. Paul. 1,753,426; Apr. 8.
Rods, Method and apparatus for testing. W. L. Reid and F. J. Bascombe. 1,753,532; Apr. 8.
Roller: *See*—
Fabric-rubbing roller.
Rolling mill. G. Asbeck. 1,753,767; Apr. 8.
Rolling mill. L. Johnson. 1,753,268; Apr. 8.
Roof structure. A. C. Johnson. 1,753,862; Apr. 8.
Roofing. R. S. Reynolds. 1,753,803; Apr. 8.
Roofing. A. S. Speer. 1,753,583; Apr. 8.
Roofing element and making the same, Metal-protected T. Robinson. 1,753,721; Apr. 8.
Rotor, Wind. K. Ramm. 1,753,302; Apr. 8.
Rubber, Apparatus for regenerating, vulcanized. A Mrach. 1,754,177; Apr. 8.
Rule gauge, Combination. T. L. B. Armstrong. 1,753,191; Apr. 8.
Sadiron. H. L. Eigenbrot. 1,753,559; Apr. 8.
Safety apparatus for oil-storage tanks. H. J. Bucking. 1,753,401; Apr. 8.
Salt-filling machine. W. F. Butler. 1,753,548; Apr. 8.
Scaffold jack. R. Van Bekkum. 1,754,132; Apr. 8.
Scraper for vehicle tires. L. and D. M. Larson. 1,753,992; Apr. 8.
Screen: *See*—
Window screen.
Screen and hanger therefor. E. A. Davis. 1,753,264; Apr. 8.
Screen for motor vehicles. A. D. McCormack. 1,753,866; Apr. 8.
Screen structure. S. B. Stine. 1,753,355; Apr. 8.
Screening machine. A. D. Vickerman. 1,753,630; Apr. 8.
Screw driver. F. Morehouse. 1,753,441; Apr. 8.
Seeds, Making removable emanation. J. Muir. 1,754,178; Apr. 8.
Sensitized element, Process of making same, and process for producing photographic images thereon. E. E. E. Lehmann. 1,753,708; Apr. 8.
Separator: *See*—
Oil separator.
Settee or similar article. E. Hauser. Des. 80,891; Apr. 8.
Sewing machines, Extension-cord retainer for. C. E. Colegrove. 1,754,160–2; Apr. 8.
Shackle, Spring. C. R. Short. 1,753,808; Apr. 8.
Shade, Lamp. R. Beardsley. 1,753,981; Apr. 8.
Shaft, Chromium-plated worm. A. Champion. 1,753,773; Apr. 8.
Sharpener, Razor-blade. J. R. Gibson. 1,753,510; Apr. 8.
Sharpeners, Attachment for pencil. O. A. Narverud. 1,753,275; Apr. 8.
Shears: *See*—
Pruning shears.
Shield, Frost. E. T. Norbeck. 1,753,618; Apr. 8.
Ship. J. H. Cummins. 1,754,149; Apr. 8.
Ship-propulsion system, Electric. D. E. Jewitt. 1,754,021; Apr. 8.
Ship's life-saving apparatus. J. Kelly. 1,754,213; Apr. 8.
Shirt. J. L. Corbi. 1,753,551; Apr. 8.
Shock absorber. G. Groebli. 1,753,430; Apr. 8.
Shock absorber. C. J. Nash. 1,753,937; Apr. 8.
Shoe. C. Morall. Des. 80,905; Apr. 8.
Shoe and making same, Athletic. L. L. Steed. 1,753,872; Apr. 8.
Shoe heater. M. O. Jennings. 1,753,705; Apr. 8.
Shoe machine. J. Sandt. 1,753,836; Apr. 8.
Shoe machine. L. E. Topham. 1,753,452; Apr. 8.
Shoe manufacture and making the same, Article of. R. T. Griffiths. 1,753,702; Apr. 8.
Shoe sole. A. S. Bannister. Des. 80,875–6; Apr. 8.
Shoe sole. C. C. Tucker. Des. 80,929; Apr. 8.
Shoe-stretching last. E. Galterio, D. C. Mariotti, and A. L. Ruggiero. 1,753,857; Apr. 8.
Shoe, Toe-dancing. J. Selva. 1,754,054; Apr. 8.
Shoe-tree, Adjustable. A. Scimonelli. 1,753,908; Apr. 8.
Shoe with instep pads. D. McK. Hepburn. 1,753,416; Apr. 8.
Shoes, Machine for applying foxing to. L. J. Bazzoni. 1,753,497; Apr. 8.
Shoes, Making. E. I. La Chapelle. 1,753,792; Apr. 8.
Shutter, Weir. F. Jermar. 1,754,108; Apr. 8.
Sifter, Flour. T. G. Melish. 1,753,995; Apr. 8.
Sign. S. Fischer and J. J. Breslin. 1,754,153; Apr. 8.
Signal: *See*—
Automobile signal.
Signal and switch therefor, Electric. A. Horochowsky. 1,753,568; Apr. 8.
Signal device. D. P. Corcoran. 1,753,364; Apr. 8.
Signaling system. R. S. Ohl. 1,753,444–6; Apr. 8.
Signaling system. V. K. Zworykin. 1,753,961; Apr. 8.
Signaling system, Electric. H. S. Black. 1,753,329; Apr. 8.
Skate, Roller. T. Spacie. 1,753,810; Apr. 8.
Slab, Downflow. J. A. Reece. 1,753,805; Apr. 8.
Sled, Collapsible. L. J. Clarke. 1,754,011; Apr. 8.
Slicer, Bread. M. L. Georgopoulos. 1,754,371; Apr. 8.
Slicing machines, Grinding device for meat-. G. R. Wood. 1,753,635; Apr. 8.
Smoker's Stand. C. E. Waltman. Des. 80,926; Apr. 8.
Smoking pipe, Tobacco-. P. A. Webb. 1,753,844; Apr. 8.
Smoking stand or similar article. A. von Frankenberg. Des. 80,925; Apr. 8.
Snow removal. E. A. Smith. 1,753,757; Apr. 8.
Soap gels and making same, Anhydrous. V. R. Kokatnur. 1,753,659; Apr. 8.
Socket. E. Christensen. 1,753,501; Apr. 8.
Socket, Snap-fastener. D. I. Reiter. 1,753,218; Apr. 8.
Soldering. H. S. George. 1,753,509; Apr. 8.
Soldering machine. O. V. Badgley. 1,753,639; Apr. 8.
Sole-cementing machine. W. H. Shufflebarger. 1,754,056; Apr. 8.
Solenoid-operating mechanism. H. Trencham, H. C. Heath, W. P. Hamlyn, and H. E. Cox. 1,754,069; Apr. 8.
Sound-amplifying device. H. W. Thayer. 1,753,672; Apr. 8.
Sound-producing device. W. B. Potter. 1,754,044; Apr. 8.
Sound-producing device, Subaqueous. A. du Bois-Reymond and W. Rudolph. 1,753,868; Apr. 8.
Sound-ranging system. G. R. Lum. 1,753,346; Apr. 8.
Space-covering structure, such as roofs, walls, and the like. W. Klingenberg. 1,753,892–3; Apr. 8.
Space heater. F. M. Young. 1,753,587; Apr. 8.
Speed drive, Constant. A. A. Clokey. 1,753,331; Apr. 8.
Speed gauge, Positive. F. W. G. Bruhn. 1,753,547; Apr. 8.
Speedograph. F. L. Felty. 1,753,923; Apr. 8.
Spinning stop motion. F. T. Noah. 1,753,247; Apr. 8.
Splice bar or fishplate. L. S. Wilbur. 1,753,762–3; Apr. 8.
Spoke and its manufacture, Metal. E. H. Arnold. 1,753,307; Apr. 8.
Spoon hook. J. C. Yates. 1,754,073; Apr. 8.
Spoon or analogous article. A. J. Flauder. Des. 80,887; Apr. 8.
Spray-draying apparatus. W. S. Bowen. 1,753,915; Apr. 8.
Spraying apparatus. C. L. Brudick. 1,754,145; Apr. 8.
Spraying device. O. Larsen. 1,753,522; Apr. 8.
Spreader for use with metal tiles. W. M. Goldsmith. 1,753,463; Apr. 8.
Spreader, Road-material. F. C. Stolle. 1,753,811; Apr. 8.
Spring: *See*—
Vehicle spring.
Spring boot. A. R. Ulp. 1,753,257; Apr 8.
Sprinkler having projectable nozzle. W. Van E. Thompson. 1,753,841; Apr. 8.

Stake, Contraction-joint. R. R. Robertson. 1,753,316; Apr. 8.
Stalk cutter. J. H. Miner. 1,753,899; Apr. 8.
Stand: *See*—
Utility stand.
Starter, Engine. R. Bertsche, jr. 1,753,591; Apr. 8.
Starter, Engine. R. P. Lansing. 1,753,830; Apr. 8.
Starter, Safety engine. A. Taylor. 1,753,537; Apr. 8.
Starting apparatus, Engine-. J. W. Lawson. 1,753,571; Apr. 8.
Starting apparatus, Engine-. W. H. Teeter. 1,753,584; Apr. 8.
Static constructions, Determining the action of forces upon. C. Rieckhof. 1,754,049; Apr. 8.
Station, Bus and switch. A. M. Rossman. 1,753,219; Apr. 8.
Steam boiler. D. S. Jacobus. 1,753,267; Apr. 8.
Steam engine. W. B. Gorr. 1,753,925; Apr. 8.
Steam trap. J. W. Garrett. 1,753,508; Apr. 8.
Steamer. F. P. and F. T. Larson. 1,753,895; Apr. 8.
Stencil sheet. S. Horii. 1,753,204–5; Apr. 8.
Stepladder. L. Benintende. 1,754,194; Apr. 8.
Stocking marker. C. T. La Mont. 1,753,865; Apr. 8.
Stool, ladder, and kitchen block, Combination. R. G. Gober. 1,753,372; Apr. 8.
Straightedge. J. W. Heitzel. 1,753,414; Apr. 8.
Strainer, Food. R. H. Carpenter. 1,753,693; Apr. 8.
Stubble burner. G. A. Jones. 1,754,022; Apr. 8.
Subaquatic drill. W. D. Grant. 1,753,511; Apr. 8.
Suction cleaning apparatus, Dust bag for. O. C. Willis. 1,753,458; Apr. 8.
Sulphur compounds of pyridine, Preparation of. G. Kochendoerfer. 1,753,658; Apr. 8.
Support. F. A. Anderson. 1,754,006; Apr. 8.
Support, Adjustable lamp. M. F. Deach. 1,753,553; Apr. 8.
Support, Door. V. C. Rocholl. 1,753,480; Apr. 8.
Support for centrifugals. C. Schaum. 1,753,722; Apr. 8.
Support, Mail-box. A. W. Florine. 1,753,506; Apr. 8.
Support, Rear motor. O. R. Skelton. 1,753,839; Apr. 8.
Support, Reenforcement-bar. W. E. Mathews. 1,753,523; Apr. 8.
Supporter and comforter, Combination garment. R. Gay. 1,753,858; Apr. 8.
Supporter, Bust. D. H. Millman. 1,753,996; Apr. 8.
Supporting device, Lamp globe, shade, reflector, or like. W. Curtis. 1,753,880; Apr. 8.
Sweater or article of similar nature. A. Egerer. Des. 80,885; Apr. 8.
Switch: *See*—
Electric switch.
Quick-break switch.
Switch. W. P. Brand. 1,753,846; Apr. 8.
Switch. E. N. Jacobi. 1,753,861; Apr. 8.
Switch. R. K. Winning. 1,753,977; Apr. 8.
Switch control. J. L. Arthur. 1,753,913; Apr. 8.
Switch mechanism. L. J. Wick. 1,754,004; Apr. 8.
Switch point for tubular postal systems. W. Höhne. 1,753,989; Apr. 8.
Switch-throwing mechanism. C. C. Korns. 1,753,271; Apr. 8.
Switching apparatus for steering-column controls. H. E. Norviel. 1,753,576; Apr. 8.
Switching of railway cars at yards and terminals, Method and apparatus for directing the. L. M. Gibbs. 1,753,602; Apr. 8.
Tack-pulling machine. G. Goddu. 1,753,409; Apr. 8.
Tag for containers. L. A. Danco. Des. 80,932; Apr. 8.
Take-up machine. F. H. Sleeper and W. H. Blount. 1,753,950; Apr. 8.
Tank: *See*—
Wading tank.
Tank-sealing device. E. G. Friedman. 1,754,091; Apr. 8.
Tape cutter. C. G. Kronmiller. 1,753,894; Apr. 8.
Target. B. O. Mattson. 1,754,030; Apr. 8.
Telegraph system for loaded cables, Duplex. J. J. Gilbert. 1,753,336; Apr. 8.
Telephone-exchange system. A. E. Hague and G. H. Peterson. 1,753,338; Apr. 8.
Telephone-exchange system. R. L. Stokely. 1,753,321; Apr. 8.
Telephone receiver, Loud-speaking. A. A. Thomas. 1,753,812; Apr. 8.
Telephone system. O. Anders. 1,753,279; Apr. 8.
Telephone system. T. V. Curley. 1,753,334; Apr. 8.
Telephone system. J. Wicks. 1,753,761; Apr. 8.
Telephone system, Automatic. H. M. Friendly. Des. 17,638; Apr. 8.
Telephone system, Automatic. J. Wicks. 1,753,491; Apr. 8.
Temperature regulator. L. F. Whitney. 1,753,676; Apr. 8.
Tentering machine. T. W. France. 1,754,089; Apr. 8.
Tentering machine. J. H. Hamilton. 1,754,099; Apr. 8.
Terminal for fluid-supply pipes, Outlet. A. S. Doty and L. T. Richey. 1,753,853; Apr. 8.
Theft-preventing device. H. Schwarze. 1,753,580; Apr. 8.
Thermoinsulating structure and manufacturing the same. H. B. Lindsay. 1,753,896; Apr. 8.
Thermometer tube and making the same. M. Moeller. 1,753,801; Apr. 8.
Thermostat controller. J. R. Replogle. 1,753,945; Apr. 8.
Thiazole compounds, Manufacture of aromatic. H. A. Merkle. 1,753,898; Apr. 8.
Thread cutter. W. G. Funk. 1,754,092; Apr. 8.
Throttle-operating mechanism. N. T. McKee. 1,753,297; Apr. 8.
Ticking. B. S. Nash. Des. 80,906; Apr. 8.
Tie: *See*—
Mine tie.
Railroad tie.
Tile for drip ledge, Special. T. G. Coghlan. 1,753,332; Apr. 8.
Time indicator. F. W. Gibson. 1,754,203; Apr. 8.
Tire-building apparatus. F. Slusher. 1,753,975; Apr. 8.
Tire mender. J. M. Boscardin. 1,753,688; Apr. 8.
Toaster, Turnover. G. F. Webb. 1,753,541; Apr. 8.
Tobacco, Process and apparatus for preparing raw. V. Lorents. 1,753,573; Apr. 8.
Tool, Adjusting. G. F. Altice and W. L. Young. 1,753,545; Apr. 8.
Tool and method for removing generators. W. S. Fisher. 1,753,780; Apr. 8.
Tool-dressing apparatus. C. G. Warren. 1,753,843; Apr. 8.
Tool, Electric percussive. C. S. Weyandt. 1,753,454; Apr. 8.
Tool for compressing valve springs. A. A. Holsen. 1,753,888; Apr. 8.
Tool-holding socket. W. R. Paige and J. H. Hanson. 1,753,471; Apr. 8.
Tool retainer. G. C. Pearson. 1,753,249; Apr. 8.
Tool, Rock-cutting. O. Rolfsen. 1,753,969; Apr. 8.
Tool, Striking or hammering. E. H. W. Welbull. 1,753,910; Apr. 8.
Tools, Guide wheel for woodworking. A. Wikstrom. 1,753,959; Apr. 8.
Tools, Hammer head for rotating rock-cutting. O. Rolfsen. 1,753,970; Apr. 8.
Tooth and interlocking key, Biproximal. F. E. Burden. 1,753,644; Apr. 8.
Toothbrush. L. O. Graves. 1,753,290; Apr. 8.
Toothbrush. R. R. Myers. 1,753,885; Apr. 8.
Toothed articles, Grinding. F. J. Lanborn. 1,753,707; Apr. 8.
Top for gas stoves, Auxiliary. G. G. Glenn. 1,753,886; Apr. 8.
Torpedoes, Spring clip for railway signal. T. B. Dutcher. 1,754,150; Apr. 8.
Toy. E. S. Miles. Des. 80,904; Apr. 8.
Toy. H. W. Hepner. 1,753,926; Apr. 8.
Toy. B. and B. Squier. 1,753,320; Apr. 8.
Toy axle stamping and cutting machine. C. A. Wood. 1,753,978; Apr. 8.
Toy fence, Electric. J. P. Schrey. 1,754,123; Apr. 8.
Toy fighting plane. C. S. Beebe. 1,753,681; Apr. 8.
Toy machine gun. M. R. Pattison. Des. 80,907; Apr. 8.
Toy poodle dog, Decorative. A. Sopp. Des. 80,916; Apr. 8.
Toy, Rocking. H. Kitze. 1,754,109; Apr. 8.
Toy, Traffic-simulating. S. I. Berger. 1,753,282; Apr. 8.
Toy whistling clown. A. D. Cowan. Des. 80,878; Apr. 8.
Track for use in furnaces. L. J. Stanbery and N. T. Branche. 1,753,220; Apr. 8.
Track, Industrial railway. G. D. Baldwin. 1,753,327; Apr. 8.
Traction device. G. W. Perks. 1,753,349; Apr. 8.
Tractors, Leveling device. F. B. Sharp. 1,753,807; Apr. 8.
Traffic-controlling apparatus, Railway-. P. N. Bossart. 1,753,982; Apr. 8.
Traffic-controlling apparatus, Railway-. R. M. Gilson. 1,753,699; Apr. 8.
Transferring liquefied gases from one container to another. C. W. P. Heyland. 1,753,785; Apr. 8.
Transmitting device, Flexible. G. P. Luckey. Re17,639; Apr. 8.
Trap: *See*—
Steam trap.
Trap. F. Weller. 1,753,814; Apr. 8.
Tray. M. S. Lower. 1,753,611; Apr. 8.
Tray, Card-index. M. McDonald. 1,753,525; Apr. 8.
Tray, Posting. R. M. Van Valkenburgh. 1,753,453; Apr. 8.
Tray, Self-serving. G. Glass, sr. 1,754,094; Apr. 8.
Tree: *See*—
Shoe-tree.
Trimmer: *See*—
Veneer trimmer.
Trimming machine. S. J. Finn. 1,753,406; Apr. 8.
Trimming machine, Rubber-tube-. W. Nicholas. 1,753,299; Apr. 8.
Truck and attachment therefor. Industrial. E. H. Remde. 1,753,720; Apr. 8.
Truck for tanks, Hoisting and tilting. C. T. Small. 1,753,756; Apr. 8.
Truck, Industrial. E. J. Abbe. 1,753,731; Apr. 8.
Truing mechanism. G. W. Binns. 1,753,682; Apr. 8.
Tube: *See*—
Collapsible tube.
Electric tube.
Tube-cutting machine. O. Glässer and E. Flemnits. 1,753,827; Apr. 8.
Tubes, Cap structure for collapsible. F. L. Fox. 1,753,239; Apr. 8.
Turntable. E. C. Cook. 1,753,550; Apr. 8.
Typewriter carriages, Speed-controlling means for. E. W. Bache and J. Grice. 1,753,195; Apr. 8.
Typewriting machine. H. F. Bardwell. 1,753,495; Apr. 8.
Typewriting machine. C. A. Joerissen. 1,753,890; Apr. 8.
Typewriting machine. J. A. B. Smith. 1,753,670; Apr. 8.

Typewriting machines, Mask for. B. J. Dowd. Des. 80,881; Apr. 8.
Umbrella, parasol, and the like. A. Ryder. 1,753,666; Apr. 8.
Urinal. P. C. Smith. Des. 80,928; Apr. 8.
Utensil for making drip coffee. J. A., sr., and J. M. Guerin. 1,753,788; Apr. 8.
Utility stand. L. M. Jones. 1,753,378; Apr. 8.
Valve. H. E. Brett. 1,753,818; Apr. 8.
Valve. V. L. Du Bois. 1,754,198; Apr. 8.
Valve. F. J. Mawby. 1,753,524; Apr. 8.
Valve. F. Seiffert. 1,753,723; Apr. 8.
Valve and head for gas engines. A. C. Hoecker. 1,753,515; Apr. 8.
Valve and manufacturing same. E. H. Mueller. 1,753,833; Apr. 8.
Valve and the like, Steam-regulator. J. Mitchell and J. C G. Cossey. 1,754,174; Apr. 8.
Valve, Automatic backwater. W. W. Shaw. 1,753,724; Apr. 8.
Valve, Automatic pressure-control. J. C. Scovel. 1,753,536; Apr. 8.
Valve, Compressor. F. R. Erbach. 1,753,922; Apr. 8.
Valve, Control. G. M. Agee. 1,754,138; Apr. 8.
Valve, Diaphragm. M. Merker. 1,753,662; Apr. 8.
Valve engine and oiling means, Sleeve-. W. S. Fisher. 1,754,189; Apr. 8.
Valve, Flush. A. E. Wolff. 1,753,229; Apr. 8.
Valve for sirupers, Filling. A. B. Thompson. 1,753,729; Apr. 8.
Valve for wells. T. Quinn and J. F. Aites. 1,753,276; Apr. 8.
Valve guide. G. H. Brutscher. 1,754,144; Apr. 8.
Valve motor, Rotary single-sleeve. E. E. Thisler. 1,753,356; Apr. 8.
Valve-operating mechanism. C. S. Goby. 1,753,745; Apr. 8.
Valve-operating mechanism for water-gas plants. J. Lowe. 1,753,274; Apr. 8.
Valve, Rotary. F. J. Holmes. 1,754,019; Apr. 8.
Valve, Two-way. L. Bloch. 1,753,684; Apr. 8.
Valves from internal-combustion engines, Device for removing the. D. Neal. 1,753,245; Apr. 8.
Vanity case. G. Parent. 1,753,315; Apr. 8.
Varnishes, Manufacturing drying. H. Becker. 1,754,186; Apr. 8.
Vat for paper-making machines. W. H. Millspaugh. 1,753,800; Apr. 8.
Vehicle lock. G. R. Sullivan. 1,753,873; Apr. 8.
Vehicle spring. J. N. Johnson. 1,753,420; Apr. 8.
Vehicle suspension, Motor-. R. A. Weinhardt. 1,753,489; Apr. 8.
Vehicle wheel. I. H. Athey. 1,753,735; Apr. 8.
Vehicles, Indicator for parking road. C. B. Fowler. 1,754,014; Apr. 8.
Vehicles, Power actuator for brake mechanism of automotive. C. S. Bragg and V. W. Kliesrath. 1,753,283; Apr. 8.
Vending apparatus, Fruit-. H. G. Nutt. 1,753,248; Apr. 8.
Vending machine. G. Hoppe. 1,753,417; Apr. 8.
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Waffle iron. F. J. Cross and H. H. Schott. Des. 80,879; Apr. 8.
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Wall construction. S. Brosek. 1,753,820; Apr. 8.
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Washing machines, Wringer head for. J. Nelson. 1,753,528; Apr. 8.
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306: 1,753,630
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210— 2: 1,754,129
9: 1,754,068
23: 1,753,661
43: 1,753,577
51: 1,754,119
61: 1,753,403
63: 1,753,722
76: 1,753,215
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55: 1,753,456
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U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Aeronautical Corporation of America, Cincinnati, Ohio. Aeroplanes and structural parts thereof. 269,603; Apr. 15; Serial No. 279,636; published Feb. 4, 1930. Class 19.

Alcardol Corporation, The, Jersey City, N. J. Vegetable extracts. 269,634; Apr. 15; Serial No. 292,150; published Jan. 28, 1930. Class 6.

Allied Industrial Products Co., Chicago, Ill. Sponges and chamois. 269,587; Apr. 15; Serial No. 287,990; published Oct. 1, 1929. Class 1.

Aluminum Goods Manufacturing Co., Manitowoc, Wis. Aluminum ware. 269,813; Apr. 15. Class 13.

Always-A-Head Mills, Inc., doing business as Southern Roller Mills, East St. Louis, Ill. Cereal and cereal products. 269,579; Apr. 15; Serial No. 285,701; published Jan. 28, 1930. Class 46.

Amalgamated Leather Companies, Inc., Philadelphia, Pa. Tanned kid skins. 269,601; Apr. 15; Serial No. 279,905; published Feb. 4, 1930. Class 1.

American Cable Company, Inc., Bridgeport, Conn. Brakes and parts thereof and brake-operating mechanisms and parts thereof. 269,605; Apr. 15; Serial No. 279,019; published Feb. 4, 1930. Class 19.

American Concrete Units Co., San Francisco, Calif. Concrete building blocks. 269,779; Apr. 15. Class 12.

American Paper Exports, Inc., New York, N. Y. Paper, envelopes, and papeteries. 269,801; Apr. 15. Class 37.

American Pop Corn Company, Sioux City, Iowa. Popping corn. 269,598; Apr. 15; Serial No. 292,571; published Feb. 4, 1930. Class 46.

Amos Bird Co., The, Boston, Mass. Eggs and egg products. 269,665; Apr. 15; Serial No. 293,862; published Feb. 4, 1930. Class 46.

Anastasia, Charles, doing business as The Gardner Co., Everett, Mass. Lozenges. 269,718; Apr. 15; Serial No. 292,959; published Jan. 28, 1930. Class 6.

Angonoa, A., Inc., New York, N. Y. Bread sticks. 269,594; Apr. 15; Serial No. 292,386; published Jan. 28, 1930. Class 46.

Anti-Hydro Waterproofing Company, Newark, N. J. Waterproofing preparation. 269,695; Apr. 15; Serial No. 293,022; published Feb. 4, 1930. Class 12.

Anti-Hydro Waterproofing Company, Newark, N. J. Waterproofing preparation. 269,698; Apr. 15; Serial No. 293,021; published Feb. 4, 1930. Class 12.

Appleby, William H., Newark, N. J. Advertising toilet paper in rolls. 269,808; Apr. 15. Class 37.

Artloom Corporation, Artloom Rug Mills Division, Philadelphia, Pa. Seamless rugs. 269,689; Apr. 15; Serial No. 293,711; published Feb. 4, 1930. Class 42.

Au Werter, Edith, Cleveland Heights, Ohio. Hat holders. 269,738; Apr. 15; Serial No. 292,888; published Feb. 4, 1930. Class 13.

B. & B. Chemical Corporation, New York, N. Y. Insecticide. 269,677; Apr. 15; Serial No. 293,568; published Jan. 28, 1930. Class 6.

Bailey Co., The, Cleveland, Ohio. Suits, shirts, and blouses. 269,709; Apr. 15. Class 39.

Baker, William C., Ojai, Calif. Baked wafers. 269,780; Apr. 15. Class 46.

Baldwin Perfumery Co., The, Chicago, Ill. Certain toilet articles. 79,318; renewed Aug. 30, 1930.

Barber Asphalt Paving Company, The, by change of name to The Barber Asphalt Company, Philadelphia, Pa. Bituminous waterproof roofing sheets. 78,566; renewed June 28, 1930.

Barnard Co., The. (See Peoples Drug Stores, Inc.)

Baxter, Leon, doing business as Baxter Manufacturing Co., Elmhurst, N. Y. Electric pick-up devices for sound reproduction. 269,800; Apr. 15. Class 21.

Beck, Joseph A., assignor to Henry McKinnie, Pittsburgh, Pa. Burners for gas appliances. 269,749; Apr. 15; Serial No. 267,293; published Feb. 4, 1930. Class 34.

Bedford Johnson Co., Inc., New York, N. Y. Men's breeches. 269,622; Apr. 15; Serial No. 290,879; published Feb. 4, 1930. Class 39.

Best & Hobbs, New Bedford, Mass. Potato chips. 269,660; Apr. 15; Serial No. 293,865; published Feb. 4, 1930. Class 46.

Big 7 Fruit Distributors, Inc., New York, N. Y.; Hood River, Oreg.; and Underwood, Wash. Fresh deciduous fruits. 269,662; Apr. 15; Serial No. 293,915; published Feb. 4, 1930. Class 46.

Bio-Medical Research Laboratories, Incorporated, Brooklyn, N. Y. Genito-urinary antiseptic. 269,719; Apr. 15; Serial No. 292,968; published Jan. 28, 1930. Class 6.

Blair, J. C., Company, Huntingdon, Pa., assignor to Western Tablet & Stationery Corporation, Dayton, Ohio. Paper, envelopes, tablets, and blank books. 78,575; renewed July 5, 1930.

Bliss, Edward P., jr., Philadelphia, Pa. Blowers for coal-burning systems. 269,600; Apr. 15; Serial No. 281,809; published Feb. 4, 1930. Class 34.

Bliss, Fabyan & Company, assignor to Bliss, Fabyan & Co. Inc., Boston, Mass. Cotton piece goods. 78,576; renewed June 28, 1930.

Bodan, Casimir, doing business as Electronic Laboratories, New York, N. Y. Electrical batteries. 269,799; Apr. 15. Class 21.

Bon Ton Cake Company, The, Brooklyn, N. Y. Cake. 269,614; Apr. 15; Serial No. 278,180; published Feb. 4, 1930. Class 46.

Bristol Gustafson Brokerage Co., Minneapolis, Minn. Malt syrups. 269,578; Apr. 15; Serial No. 285,656; published Feb. 4, 1930. Class 46.

Bristol Gustafson Brokerage Co., Minneapolis, Minn. Malt syrups. 269,590; Apr. 15; Serial No. 289,097; published Feb. 4, 1930. Class 46.

Burgmann, Feodor, Dresden-Laubegast, Germany. Stuffing-box and machinery grease. 77,449; renewed Apr. 12, 1930.

California Fruit Canners Association, assignor to California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables. 77,085–6; renewed Mar. 8, 1930.

California Fruit Canners Association, assignor to California Packing Corporation, San Francisco, Calif. Canned vegetables and dried fruits. 77,171; renewed Mar. 15, 1930.

California Fruit Canners Association, assignor to California Packing Corporation, San Francisco, Calif. Canned fruits. 77,172; renewed Mar. 15, 1930.

California Fruit Canners Association, assignor to California Packing Corporation, San Francisco, Calif. Canned fruit. 77,223; renewed Mar. 22, 1930.

California Fruit Canners Association, assignor to California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables. 77,291; renewed Mar. 29, 1930.

Cameron, William J., doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Optical outfit. 269,768; Apr. 15. Class 26.

Campbell Holton & Co., Bloomington, Ill. Flour. 269,609; Apr. 15; Serial No. 276,525; published Jan. 28, 1930. Class 46.

Cargill Elevator Co., assignor to Minneapolis Seed Company, Minneapolis, Minn. Seeds and seed grains. 78,162; renewed May 31, 1930.

Cargill Elevator Co., assignor to Minneapolis Seed Company, Minneapolis, Minn. Seed grains, grass seeds, and garden seeds. 78,376–7; renewed June 7, 1930.

Carthage Crushed Limestone Company, Carthage, Mo. Poultry grit. 269,612; Apr. 15; Serial No. 274,097; published Feb. 4, 1930. Class 1.

Central Paint & Roofing Company, Louisville, Ky. Smooth-surface and slate-surfaced composition roofing. 269,748; Apr. 15; Serial No. 269,714; published Dec. 11, 1928. Class 12.

Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Rolled oats and oatmeal. 78,038; renewed May 24, 1930.

Cheney Brothers, South Manchester, Conn. Cravats. 269,786; Apr. 15. Class 39.

Cifuentes, Pego y Compañia, Habana, Cuba. Cigars. 269,633; Apr. 15; Serial No. 292,026; published Feb. 4, 1930. Class 17.

Colorado Dry-Ice Corporation, The, Denver, Colo. Carbon dioxide. 269,713; Apr. 15; Serial No. 292,656; published Jan. 28, 1930. Class 6.

Colorado Natural Remedy Association, Denver, Colo. Rare-earth compound. 269,596; Apr. 15; Serial No. 292,522; published Jan. 28, 1930. Class 6.

Colson Company, The, Elyria, Ohio. Holders for brooms, mops, rakes, and the like. 269,584; Apr. 15; Serial No. 286,625; published Feb. 4, 1930. Class 13.

Congoleum-Nairn, Inc., Kearny, N. J. Felt-base rugs and floor coverings. 269,634–6; Apr. 15; Serial Nos. 293,659–61; published Feb. 4, 1930. Class 20.

Consolidated Dry Goods Co., Poughkeepsie, N. Y., and Springfield, Mass. Coats for women. 269,632; Apr. 15; Serial No. 291,867; published Feb. 4, 1930. Class 39.

Consolidated Tea Company. (See Zechnowitz, Samuel, assignor.)

Continental Milling Company, The. (See Gambrill, C. A., Manufacturing Company.)

Corning Olive Company, Corning, Calif. Canned olives. 269,778; Apr. 15. Class 46.

Covert Manufacturing Company, New York, N. Y. Saddlery hardware. 269,681; Apr. 15; Serial No. 291,859; published Jan. 28, 1930. Class 8.

Crown-Columbia Pulp and Paper Co., assignor, by mesne assignments, to Crown Willamette Paper Company, San Francisco, Calif. Wrapping paper. 79,191; renewed Aug. 16, 1930.

Crump, Benj. T., Company, Richmond, Va. Automobile seat and upholstery covers. 269,741; Apr. 15; Serial No. 292,658; published Feb. 4, 1930. Class 19.

Davis Milling Company, The, St. Joseph, Mo., assignor, by mesne assignments, to The Quaker Oats Company, Chicago, Ill. Wheat flour. 78,869; renewed July 19, 1930.

Davis Milling Company, The, St. Joseph, Mo., assignor, by mesne assignments, to The Quaker Oats Company, Chicago, Ill. Wheat flour. 79,089; renewed July 19, 1930.

De Bord, Chas. L., doing business as De Bord Mills, Johnson City, Tenn. Wheat flour. 269,708; Apr. 15; Serial No. 293,813; published Jan. 28, 1930. Class 46.

Del-Mar-Va Hatcheries. (See Holsinger, Lloyd E.)

Deming & Gould Co., Chicago, Ill., to Deming & Gould, South Bellingham, Wash. Canned salmon. 79,326; renewed Aug. 30, 1930.
Diabetic Food Company, Inc., Brooklyn, N. Y. Diabetic ingredients and food products. 269,599; Apr. 15; Serial No. 282,345; published Feb. 4, 1930. Class 46.
Diary Publishing Corporation, The, New York, N. Y. Combination coin purses, bip-fold wallets, key cases, etc. 269,607; Apr. 15; Serial No. 277,753; published Feb. 4, 1930. Class 3.
Dickinson, Albert, Company, The, Chicago, Ill. Seeds and seed grains. 34,295; renewed Mar. 6, 1930.
Dixon, Joseph, Crucible Company, Jersey City, N. J. Lubricant. 34,754; renewed June 5, 1930.
Dover Stamping and Manufacturing Company, assignor to Dover Stamping & Manufacturing Company, Cambridge, Mass. Funnels. 79,110; renewed Aug. 9, 1930.
Duo-Tor Mfg. Co., Dayton, Ohio. Combined incinerators and water heaters. 269,703; Apr. 15; Serial No. 293,213; published Feb. 4, 1930. Class 34.
Duplan Silk Corporation, New York, N. Y. Piece goods of silk and rayon and mixtures thereof. 269,710; Apr. 15; Serial No. 293,315; published Feb. 4, 1930. Class 42.
Dura-Stone Chemical Products Company. (See Fleming, Arthur K.)
Eckart, Fred. Packing Company, Fort Wayne, Ind. Bacon. 77,128; renewed Mar. 15, 1930.
Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. 269,774; Apr. 15. Class 21.
Electronic Laboratories. (See Bodan, Casimir.)
Elias, Edward, Inc., New York, N. Y. Hand bags. 269,771; Apr. 15. Class 3.
Ellis Adding-Typewriter Company, The, Newark, N. J. Accounting machines, adding typewriters, etc. 269,785; Apr. 15. Class 26.
Enterprise Oil Company, Inc., Buffalo, N. Y. Fluid lubricant. 269,784; Apr. 15. Class 15.
Erba, Carlo, assignor to Carlo Erba, Societa Anonima, Milan, Italy. Extract of tamarind. 76,787–8; renewed Feb. 15, 1930.
Everedy Company, The, Frederick, Md. Screen-door grille. 269,765; Apr. 15. Class 13.
Everedy Company, The, Frederick, Md. Door closers. 269,806; Apr. 15. Class 13.
Farkas, Joseph A., doing business as Farkas & Company, Oklahoma City, Okla. Typewriter ribbons and carbon paper. 269,680; Apr. 15; Serial No. 293,621; published Feb. 4, 1930. Class 11.
Feigenson Bros. Co., Detroit, Mich. Maltless beverages. 269,661; Apr. 15; Serial No. 293,874; published Feb. 4, 1930. Class 45.
Fleming, Arthur K., doing business as Dura-Stone Chemical Products Company, New York, N. Y. Decorative coatings. 269,616; Apr. 15; Serial No. 282,985; published Oct. 1, 1929. Class 16.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 269,644; Apr. 15; Serial No. 293,541; published Feb. 4, 1930. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 269,647; Apr. 15; Serial No. 293,542; published Feb. 4, 1930. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 269,648–50; Apr. 15; Serial Nos. 293,547–9; published Feb. 4, 1930. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 269,673–4; Apr. 15; Serial Nos. 293,553–4; published Feb. 4, 1930. Class 42.
Foster, M. B., & Sons, Limited, assignor to M. B. Foster & Sons, Limited, London, England. Alcoholic beverages. 78,040; renewed May 24, 1930.
Fox, Gustave, Company, The, Cincinnati, Ohio. Metal name plates. 269,735; Apr. 15; Serial No. 292,205; published Feb. 4, 1930. Class 13.
Frank & Coben Silk Corporation, New York, N. Y. Silk and artificial-silk goods in the piece and mixtures of the same. 269,709; Apr. 15; Serial No. 293,317; published Feb. 4, 1930. Class 42.
Freeman & Cobb Co., to John R. Neal Company, doing business as Freeman & Cobb Company, Boston, Mass., successor. Smoked short haddock. 78,505; renewed June 21, 1930.
Friedman Tobacco Products Corporation, York, Pa. Insecticides. 269,583; Apr. 15; Serial No. 285,968; published Jan. 28, 1930. Class 6.
Gambrill, C. A., Manufacturing Company, to The Continental Milling Company, Baltimore, Md., successor. Wheat flour. 76,782; renewed Feb. 15, 1930.
Gambrill, C. A., Manufacturing Company, to The Continental Milling Company, Baltimore, Md., successor. Wheat flour. 76,901; renewed Feb. 22, 1930.
Gambrill, C. A., Manufacturing Company, to The Continental Milling Company, Baltimore, Md., successor. Wheat flour. 77,123; renewed Mar. 15, 1930.
Garden Ale Company. (See Irvin, Ward M.)
Gardner Co., The. (See Anastasia, Charles.)
Gazelle, Rolland J., Montreal, Quebec, Canada. Heaters. 269,745; Apr. 15; Serial No. 270,838; published Feb. 4, 1930. Class 34.
Gebrüder Junghans Aktiengesellschaft. (See Vereinigte Uhrenfabriken von Gebrüder Junghans und Thomas Haller A.-G.)
Gemex Company, Newark, N. J. Watch bracelets, straps, and attachments, scarfpins, etc. 269,777; Apr. 15. Class 28.
General Mills, Inc., Minneapolis, Minn. Stock and poultry feed. 269,585; Apr. 15; Serial No. 287,133; published Jan. 28, 1930. Class 46.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires and inner tubes therefor, tire and tube repair outfits, etc. 269,659; Apr. 15; Serial No. 293,829; published Feb. 4, 1930. Class 35.
Goshen Shirt Manufacturing Company, Chicago, Ill. Radium silk. 269,618; Apr. 15; Serial No. 290,022; published Feb. 4, 1930. Class 42.
H. & M. Neckwear Co., New York, N. Y. Cravats. 269,775; Apr. 15. Class 39.
Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods made of silk, cotton, and wool. 269,692; Apr. 15; Serial No. 294,070; published Feb. 4, 1930. Class 42.
Hall, T. B., & Co. Ltd., Liverpool, England. Ale, beer, porter, and stout. 77,846; renewed May 10, 1930.
Haller, Louis, doing business as Haller's Bird Store, Cincinnati, Ohio. Birdseed. 269,608; Apr. 15; Serial No. 277,583; published Jan. 28, 1930. Class 46.
Harrison, Mrs. Nettie, Co., assignor, by mesne assignments, to McKesson-Langley-Michaels Company, Ltd., San Francisco, Calif. Medicines and toilet preparations. 76,974; renewed Mar. 1, 1930.
Hastings Manufacturing Co., Hastings, Mich. Piston rings. 269,793–4; Apr. 15. Class 35.
Hedrich, Uriah J., Presque Isle, Me. Distilled water and maltless beverages. 269,744; Apr. 15; Serial No. 292,991; published Feb. 4, 1930. Class 45.
Helland, John, Co., Chicago, Ill. Headache powder, damiana, liver pills, foot powder, etc. 269,746; Apr. 15; Serial No. 270,839; published Jan. 28, 1930. Class 6.
Hill Food Products Company, Los Angeles, Calif. Mayonnaise, dressing, peanut butter, etc. 269,761; Apr. 15. Class 46.
Hills, Henry R., Inverkeithing, Scotland. Chemical substances. 269,629; Apr. 15; Serial No. 291,828; published Jan. 28, 1930. Class 6.
Hills, William, Jr. & Co. Incorporated, New York, N. Y. Canned salmon. 269,772; Apr. 15. Class 46.
Holly Hill Fruit Products, Inc., Davenport, Fla. Fresh citrus fruits. 269,586; Apr. 15; Serial No. 287,474; published Feb. 4, 1930. Class 46.
Holsinger, Lloyd R., doing business as Del-Mar-Va Hatcheries, Denton, Md. Eggs, baby chicks, and live poultry. 269,755; Apr. 15; Serial No. 275,618; published Feb. 4, 1930. Class 46.
Holyoke Belting Company, Holyoke, Mass. Leather belting. 269,723; Apr. 15; Serial No. 290,574; published Feb. 4, 1930. Class 35.
Honex Corporation of America, Chicago, Ill. Sharpening devices. 269,588; Apr. 15; Serial No. 288,236; published Feb. 4, 1930. Class 23.
Hudson & Co., Mattituck, N. Y., to Hudson & Company, Holley, N. Y. Canned fruits and canned vegetables. 79,282; renewed Aug. 23, 1930.
Hudson, J. L., Company, The, Detroit, Mich. Girls' hosiery. 269,636; Apr. 15; Serial No. 292,209; published Feb. 4, 1930. Class 39.
Illinois Watch Case Co., Elgin, Ill. Watchcases and watch movements. 77,052; renewed Mar. 8, 1930.
Illinois Watch Case Company, Elgin, Ill. Watchcases. 78,974; renewed July 26, 1930.
Inland Consolidated Coal Corporation, Chicago, Ill. Coal. 269,756; Apr. 15; Serial No. 284,858; published Feb. 4, 1930. Class 1.
International Extract Co. (See Paul, Milton.)
International Products Corporation, New York, N. Y. Canned meats and canned-meat products. 269,638; Apr. 15; Serial No. 293,324; published Feb. 4, 1930. Class 46.
International Safety Lock Nut Corporation, New York, N. Y. Lock nuts and lock washers. 269,740; Apr. 15; Serial No. 292,631; published Feb. 4, 1930. Class 13.
Irvin, Ward M., doing business as Garden Ale Company, Battle Creek, Mich. Maltless beverage. 269,702; Apr. 15; Serial No. 293,182; published Feb. 4, 1930. Class 45.
Jeanette Powder Puffs, Inc., Newark, N. J. Powder puffs. 269,675; Apr. 15; Serial No. 293,586; published Feb. 4, 1930. Class 29.
Jelke, John F., Company, Chicago, Ill. Evaporated milk. 269,696; Apr. 15; Serial No. 293,050; published Feb. 4, 1930. Class 46.
Johnson, Bedford, Co. Inc., New York, N. Y. Work trousers. 269,628; Apr. 15; Serial No. 290,881; published Feb. 4, 1930. Class 39.
Johnson, B. P., Piano Co., Elgin, Ill. Pianos. 269,762; Apr. 15. Class 36.
Karastan Rug Mills. (See Ryan, Joseph A.)
Kayser, Julius, & Company, by merger to Julius Kayser & Co., New York, N. Y. Gloves. 77,596; renewed Apr. 19, 1930.
Keller Heumann & Thompson Company, Inc., Rochester, N. Y. Suits. 269,589; Apr. 15; Serial No. 288,501; published Feb. 4, 1930. Class 39.
Kelsey, Charles L., Eden, Tex. Maltless beverages and syrups for making the same. 269,732; Apr. 15; Serial No. 291,833; published Feb. 4, 1930. Class 45.
Key, Claude L., Milton, Oreg., assignor to Key Weeder Company. Farm implements. 269,722; Apr. 15; Serial No. 290,216; published Feb. 4, 1930. Class 23.

Keyes Fibre Company, Inc., Waterville, Me. Plates and dishes. 269,697; Apr. 15; Serial No. 293,053; published Feb. 4, 1930. Class 2.
Kirk, Morris P., & Son, Inc., Los Angeles, Calif. Zinc oxides, litharge, and red lead. 269,760; Apr. 15. Class 16.
Kirk, Morris P., & Son, Inc., Los Angeles, Calif. Lead-solder, zinc, etc. 269,767; Apr. 15. Class 14.
Koch, Leonhard, doing business as Koch & Te Kock, Oelsnitz, Germany. Carpets and stair carpets of textiles. 269,582; Apr. 15; Serial No. 286,182; published Feb. 4, 1930. Class 42.
Kohler Company, Kohler, Wis. Clothes-washing machines. 269,639; Apr. 15; Serial No. 293,872; published Feb. 4, 1930. Class 24.
Kohler Company, Kohler, Wis. Pottery. 269,640; Apr. 15; Serial No. 293,874; published Feb. 4, 1930. Class 18.
Kohler Company, Kohler, Wis. Closet bowls and combinations. 269,815–18; Apr. 15. Class 13.
Kohr, Elton D., York, Pa., and Atlantic City, N. J. Frozen custard. 269,803; Apr. 15. Class 46.
Kragiel, Boleslaw, doing business as Kragiel Laboratory, New Britain, Conn. Medicinal preparation. 269,595; Apr. 15; Serial No. 292,500; published Jan. 28, 1930. Class 6.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Charcoal and lawn seeds. 269,764; Apr. 15. Class 1.
Kufeke, R., Bergedorf, near Hamburg, Germany. Dietetic food for children, adults, etc. 77,653; renewed Apr. 26, 1930.
Laird & Company, Eatontown, N. J. Cider and pure apple juice and maltless beverages and sirups for making the same. 269,790; Apr. 15. Class 45.
Lakeside Manufacturing Company, Chicago, Ill. Thermostats. 269,721; Apr. 15; Serial No. 290,073; published Feb. 4, 1930. Class 26.
Lancaster Specialty Sales Co. (See Pine, Eugene L.)
Lawson, F. H., Company, The, Cincinnati, Ohio. Mirrors, cabinets, dressers, etc. 269,787; Apr. 15. Class 32.
Lazier, J. F., Manufacturing Co., Inc., St. Louis, Mo. Flavoring extracts and concentrated syrups. 269,655; Apr. 15; Serial No. 293,780; published Feb. 4, 1930. Class 45.
Leedy Manufacturing Co. Inc., Indianapolis, Ind. Band and orchestra instruments and supplies. 269,805; Apr. 15. Class 36.
Leggett Sales C., Inc., New York, N. Y. Candy. 269,802; Apr. 15. Class 46.
Leigh, Mrs. Word, Nyack, N. Y., and Key West, Fla. Cold cream. 269,795; Apr. 15. Class 6.
Lesiuk, Juan, assignor to Trucco and Lesiuk, Buenos Aires, Argentina. Chemical compoedtion for use as sealing wax. 269,731; Apr. 15; Serial No. 282,417; published Jan. 28, 1930. Class 5.
Les Parfums de Rosine, Inc., New York, N. Y. Bath powder. 269,747; Apr. 15; Serial No. 270,298; published Jan. 28, 1930. Class 6.
Lewis Laboratories, Inc., Atlanta, Ga. Systemic tonic for the relief and correction of malnutrition, etc. 269,670; Apr. 15; Serial No. 293,575; published Jan. 28, 1930. Class 6.
Liebovitz, S., & Sons, Inc. (See Sonny Blouse Company, Inc., assignor.)
Lindemann, A. J., & Hoverson Company, Milwaukee, Wis. Cooking and heating stoves and ranges. 79,288; renewed Aug. 23, 1930.
Lindemann, A. J., & Hoverson Company, Milwaukee, Wis. Lamps and lanterns, mantles therefor and parts thereof. 269,727; Apr. 15; Serial No. 291,516; published Feb. 4, 1930. Class 34.
Liquid Dehydration Corporation, Chicago, Ill. Glues, sizing glues, and billposters' pastes. 269,580; Apr. 15; Serial No. 285,576; published Feb. 4, 1930. Class 5.
Locke Regulator Company, Salem, Mass. Damper regulators, valves, pump regulators, etc. 269,757; Apr. 15; Serial No. 283,406; published Feb. 4, 1930. Class 13.
Loeffler, Anhalt Co. Inc., New York, N. Y. Piece goods made of silk, cotton, and rayon and mixtures of the same. 269,690; Apr. 15; Serial No. 293,782; published Feb. 4, 1930. Class 42.
Longman & Martines, New York, N. Y., to Longman & Martines, Brooklyn, N. Y. Paints, varnishes, oils, etc. 79,434; renewed Sept. 6, 1930.
Love & Amos Coal Company, Nashville, Tenn. Coal. 269,796; Apr. 15. Class 1.
Manatee Crate Company, Inc., Manatee, Fla. Fruit and vegetable hampers. 269,602; Apr. 15; Serial No. 279,802; published Feb. 4, 1930. Class 2.
Maney Milling Company, Omaha, Nebr. Wheat flour. 269,645–6; Apr. 15; Serial Nos. 293,477–8; published Jan. 28, 1930. Class 46.
Mannheimer Bros., St. Paul, Minn. Cotton piece goods. 76,887; renewed Feb. 22, 1930.
Martin Chemical Products Company, Boston, Mass. Adhesive cement. 269,720; Apr. 15; Serial No. 292,998; published Feb. 4, 1930. Class 5.
McClintock, O. B., Company, Minneapolis, Minn. Night depositories for banks. 269,782; Apr. 15. Class 25.
McKesson-Langley-Michaels Company, Ltd. (See Harrison, Mrs. Nettie, Co., assignor.)
McKinnie, Henry. (See Beck, Joseph A., assignor.)
Meadow Gold Salad Dressings Co., Kansas City, Mo. Salad dressings. 269,676; Apr. 15; Serial No. 293,589; published Feb. 4, 1930. Class 46.
Mennillo, Frank A., Los Angeles, Calif. Tomato juice. 269,671; Apr. 15; Serial No. 293,437; published Feb. 4, 1930. Class 46.
Metallgesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Activated adsorption and decolorising carbons. 269,687; Apr. 15; Serial No. 293,676; published Jan. 28, 1930. Class 6.
Milwaukee Tank Works, Inc., Milwaukee, Wis. Oil-measuring pumps. 269,728; Apr. 15; Serial No. 291,629; published Feb. 4, 1930. Class 23.
Mining Safety Device Co., The, Bowerston, Ohio. Mine-equipment goods. 269,814; Apr. 15. Class 28.
Minneapolis Seed Company. (See Cargill Elevator Co., assignor.)
Missouri Rolling Mill Corporation, St. Louis, Mo. Metal fence posts. 269,734; Apr. 15; Serial No. 291,997; published Feb. 4, 1930. Class 13.
Modern Coal Burner Company, Chicago, Ill. Coal burners and coal-feeding attachments therefor. 269,807; Apr. 15. Class 34.
Molinelle (London) Limited, London, England. Perfumery. 269,681; Apr. 15; Serial No. 293,633; published Jan. 28, 1930. Class 6.
Monarch Products Company, Baltimore, Md. Deflectors for gas stoves. 269,743; Apr. 15; Serial No. 292,887; published Feb. 4, 1930. Class 34.
Mosaic Tile Company, The, Zanesville, Ohio. Tiles. 269,783; Apr. 15. Class 12.
Mossant, Vallon & Argod, Bourg-de-Peage, France. Felt hats. 79,440; renewed Sept. 6, 1930.
Motts, Howard R., Cleveland, Ohio. Peat moss. 269,763; Apr. 15. Class 1.
National Baking Co., San Pedro, Calif. Bread and rolls. 269,714; Apr. 15; Serial No. 292,744; published Jan. 28, 1930. Class 46.
Neal, John R., Company. (See Freeman & Cobb Co.)
Neon Tube Manufacturing Co. Inc., San Francisco, Calif. Neon and other luminescent tubes, electrodes, etc. 269,798; Apr. 15. Class 21.
Neustadter Bros., San Francisco, Calif. Underwear, union suits, shirts, etc. 269,770; Apr. 15. Class 39.
Niagara Fold, Inc., Niagara Falls, N. Y. Carbon paper. 269,611; Apr. 15; Serial No. 274,476; published Feb. 4, 1930. Class 11.
North American Sound & Talking Picture Equipment Corporation, New York, N. Y. Synchronized unitary apparatus for the reproduction of light and sound effects. 269,726; Apr. 15; Serial No. 291,470; published Feb. 4, 1930. Class 28.
Oleana Salad Kitchen, Lynchburg, Va. Thousand Island dressing, mayonnaise dressing, pecan salad dressing, etc. 269,666; Apr. 15; Serial No. 293,284; published Feb. 4, 1930. Class 46.
Oneida Community Limited. (See Rogers, Wm. A., Limited, assignor.)
Orange-Crush Company, Chicago, Ill. Concentrates, compounds, syrups, and beverages. 269,736; Apr. 15; Serial No. 292,282; published Feb. 4, 1930. Class 45.
Patterson Studios, Inc., Chicago, Ill. Lamp bases and shades. 269,617; Apr. 15; Serial No. 284,197; published Feb. 4, 1930. Class 34.
Pattison, Edwin, Bloomington, assignor to Pioneer Creamery Company, Galesburg, Ill. Butter. 77,137; renewed Mar. 15, 1930.
Paul, Milton, doing business as International Extract Co., New York, N. Y. Flavoring extracts for maltless beverages. 269,788; Apr. 15. Class 45.
Pekarek, Frank, Chicago, Ill. Safety drains. 269,704; Apr. 15; Serial No. 293,233; published Feb. 4, 1930. Class 13.
Penrod Blouse Co., Inc., New York, N. Y. Boys' blouses, shirts, and pajamas. 269,711; Apr. 15; Serial No. 292,595; published Feb. 4, 1930. Class 39.
Peoples Drug Stores, Inc., doing business as The Barnard Co., Washington, D. C. Tooth paste. 269,667; Apr. 15; Serial No. 293,107; published Jan. 28, 1930. Class 6.
Perrine Quality Products Corporation, Waltham, Mass. Storage batteries and their parts. 269,706; Apr. 15. Class 21.
Pilot Hosiery Mills, Incorporated, Lexington, N. C. Socks. 269,630; Apr. 15; Serial No. 291,840; published Feb. 4, 1930. Class 39.
Pine, Eugene L., doing business as Lancaster Specialty Sales Co., Lancaster, Pa. Preparation for removing carbon. 269,694; Apr. 15. Class 6.
Pioneer Creamery Company. (See Pattison, Edwin, assignor.)
Pioneer Rubber Mills, San Francisco, Calif. Rubber and fabric belting, rubber hose, piston packing. 269,651; Apr. 15; Serial No. 293,504; published Feb. 4, 1930. Class 35.
Plapao Laboratories, Inc., St. Louis, Mo. Laxative tablets. 269,751; Apr. 15; Serial No. 249,863; published June 4, 1929. Class 6.
Plibrico Jointless Firebrick Company, Chicago, Ill. Cement. 269,699; Apr. 15; Serial No. 293,069; published Feb. 4, 1930. Class 12.
Pollyanna Shops. (See Weissberger, Ernest.)
Port Huron Sulphite & Paper Co., Port Huron, Mich. Paper. 269,809; Apr. 15. Class 37.

Porter Clothing Co., Inc., New Orleans, La. Clothing. 269,758; Apr. 15; Serial No. 284,276; published Feb. 4, 1930. Class 39.
Pullenlite Company, Philadelphia, Pa. Matches. 269,621; Apr. 15; Serial No. 290,323; published Feb. 4, 1930. Class 9.
Purity Candy Company, Columbus, Ohio. Bakery products and confectionery. 34,716; renewed May 29, 1930.
Purity Oats Company, Keokuk, Iowa. Rolled oats and oat flakes and cereal breakfast food. 269,716; Apr. 15; Serial No. 292,901; published Jan. 28, 1930. Class 46.
Quaker Oats Company, The. (See Davis Milling Company, The, assignor.)
Race Laboratories, Inc., New York, N. Y. Laxatives. 269,678; Apr. 15; Serial No. 293,596; published Jan. 28, 1930. Class 6.
Radiovision Corporation, New York, N. Y. Light-sensitive cells. 269,789; Apr. 15.
Rainey, Albert J., Los Angeles, Calif. Composition for use in sealing fissures. 269,742; Apr. 15; Serial No. 292,683; published Feb. 4, 1930. Class 12.
Randall, E., & Co. (See Williams, Lewis S.)
Recher, Rudolph, North Providence, R. I. Press cloth and lining fabrics in the piece. 269,682; Apr. 15; Serial No. 293,640; published Feb. 4, 1930. Class 42.
Reed, Jay D., doing business as Reed Home Made Ice Cream Company, Des Moines, Iowa. Ice cream. 269,593; Apr. 15; Serial No. 289,941; published Feb. 4, 1930. Class 46.
Reliable Flour Company, Boston, Mass. Cake flour. 269,725; Apr. 15; Serial No. 291,292; published Feb. 4, 1930. Class 46.
Renshaw, John, Inc., Brooklyn, N. Y. Cake improver for cakes and confections. 269,656; Apr. 15; Serial No. 293,791; published Feb. 4, 1930. Class 46.
Renshaw, John, Inc., Brooklyn, N. Y. Filling and topping for cakes, candies, and confections. 269,657; Apr. 15; Serial No. 293,790; published Feb. 4, 1930. Class 46.
Rexine Co., The, Sheboygan, Wis. Semiliquid soap. 77,045; renewed Mar. 1, 1930.
Richardson, F. W., & Son, doing business as Richardson Fruit Farms Co., Hicksville, Ohio. Fresh cantaloupes and watermelons. 269,729; Apr. 15; Serial No. 291,636; published Feb. 4, 1930. Class 46.
Rock Point Oyster Co., Inc., Olympia, Wash. Oysters. 269,739; Apr. 15; Serial No. 292,554; published Jan. 28, 1930. Class 46.
Rogers, William H., Houston, Tex. Paints, varnishes, stains, and finishes. 76,892; renewed Feb. 22, 1930.
Rogers, Wm. A., Limited, New York and Niagara Falls, N. Y., assignor to Oneida Community Limited, Oneida, N. Y. Silver-plated ware. 78,642; renewed June 28, 1930.
Rome Brass Radiator Corporation, New York, N. Y. Heating radiators. 269,610; Apr. 15; Serial No. 275,409; published Feb. 4, 1930. Class 34.
Rome Brass Radiator Corporation, New York, N. Y. Heating radiators. 269,750; Apr. 15; Serial No. 257,442; published Feb. 4, 1930. Class 34.
Ross, William, Troy, N. Y. Ice-cream ladles. 79,870–1; renewed Aug. 30, 1930.
Rossman Brothers & Messner, Inc., New York, N. Y. Cotton goods in the piece and cotton and silk goods in the piece and artificial-silk goods in the piece. 269,717; Apr. 15; Serial No. 292,904; published Feb. 4, 1930. Class 42.
Rutherford Chile Co., Kansas City, Mo. Canned sandwich beans, spaghetti red, tamales, etc. 269,733; Apr. 15; Serial No. 291,934; published Feb. 4, 1930. Class 46.
Ryan, Joseph A., doing business as Karastan Rug Mills, New York, N. Y. Woven and textile rugs. 269,705–6; Apr. 15; Serial Nos. 293,236–7; published Feb. 4, 1930. Class 42.
S & G Leather Goods Co., Inc., New York, N. Y. Leather key container. 269,643; Apr. 15; Serial No. 293,487; published Jan. 28, 1930. Class 3.
Saccharin-Fabrik Aktien-Gesellschaft, vorm. Fahlberg, List & Co., Salbke-Westerhusen, to Saccharin-Fabrik, Aktiengesellschaft, vorm. Fahlberg, List & Co., Magdeburg, Germany. Saccharin. 75,972; renewed Nov. 30, 1929.
St. Louis Screen Company, St. Louis, Mo. Window screens and screen doors. 269,812; Apr. 15. Class 13.
Salem Pottery Company, The, Salem, Ohio. Pottery, chinaware, stoneware, etc. 269,691; Apr. 15; Serial No. 293,986; published Feb. 4, 1930. Class 30.
Sawyer, H. M., & Son Incorporated, Cambridge, Mass. Waterproof oiled clothing. 269,625; Apr. 15; Serial No. 291,415; published Feb. 4, 1930. Class 39.
Scher, Morris M., Baltimore, Md. Woolen suiting in the piece. 269,637; Apr. 15; Serial No. 292,841; published Feb. 4, 1930. Class 42.
Schering & Glatz, Inc., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J. Suppositories. 269,752; Apr. 15; Serial No. 115,382; published June 4, 1929. Class 6.
Schering & Glatz, Inc., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J. Mono-sodium salt of diethyl-barbituric acid, sodium diethyl-barbiturate. 269,753; Apr. 15; Serial No. 115,488; published June 25, 1929. Class 6.
Schering & Glatz, Inc., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J. Hexamethylenetetramine or hexamethylenamine (U. S. P.) either pure or in admixture with other suitable substances. 269,754; Apr. 15; Serial No. 115,490; published June 28, 1929. Class 6.
Schulze Baking Company, Chicago, Ill., and Kansas City, Mo. Cake. 269,653; Apr. 15; Serial No. 293,750; published Feb. 4, 1930. Class 46.
Schulze, Paul, Biscuit Company, Chicago, Ill. Crackers. 269,811; Apr. 15. Class 46.
Schumann China Corporation, New York, N. Y. Crockery, earthenware, and porcelain. 269,592; Apr. 15; Serial No. 289,905; published Feb. 4, 1930. Class 30.
Seal-Rite Piston Ring Co. (See Zeledon, Ralph G.)
Seaman, Maurice, San Francisco, Calif. Women's wearing apparel. 269,619; Apr. 15; Serial No. 290,035; published Feb. 4, 1930. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Semiporcelain dinner ware. 269,688; Apr. 15; Serial No. 293,695; published Feb. 4, 1930. Class 30.
Sharp & Dohme, Incorporated, Baltimore, Md. Tooth paste and antiseptic lozenges. 269,664; Apr. 15; Serial No. 293,293; published Jan. 28, 1930. Class 6.
Shoot Chocolate Company, The, doing business as Shoot's, Cleveland, Ohio. Candy. 269,641; Apr. 15; Serial No. 293,888; published Feb. 4, 1930. Class 46.
Shores-Mueller Company, Cedar Rapids, Iowa. Fly spray for livestock. 269,620; Apr. 15; Serial No. 290,224; published Jan. 28, 1930. Class 6.
Simmons Hardware Company, St. Louis, Mo. Certain articles of hardware. 34,554; renewed Apr. 24, 1930.
Simmons Hardware Company, St. Louis, Mo. Articles of hardware. 34,555–6; renewed Apr. 24, 1930.
Singer, Philip A., & Bro. Inc., Newark, N. J. Dyed rabbit skins. 269,810; Apr. 15. Class 1.
Smidth, F. L., & Co., Jersey City, N. J., and New York, N. Y., to F. L. Smidth & Co., New York, N. Y. Metallic grinding bodies. 78,651; renewed June 28, 1930.
Smith, Alfred H., Co., New York, N. Y. Brushes. 78,210; renewed May 31, 1930.
Soc. Anon. Officine di Villar Perosa, Turin, Italy. Transmission chains and their parts. 269,724; Apr. 15; Serial No. 290,978; published Feb. 4, 1930. Class 18.
Sonny Blouse Company, Inc., assignor to S. Liebovits & Sons, Inc., New York, N. Y. Blouses and shirts. 269,668; Apr. 15; Serial No. 293,077; published Feb. 4, 1930. Class 39.
Southern Roller Mills. (See Always-A-Head Mills, Inc.)
Spa Monopole Cie. Fermière des Eaux et des Bains de Spa Société Anonyme, Spa, Belgium. Mineral waters. 269,737; Apr. 15; Serial No. 292,339; published Feb. 4, 1930. Class 45.
Standard Textile Products Company, The, New York, N. Y. Oilcloth and oilcloth table covers. 269,773; Apr. 15. Class 20.
Stanley Works, The, New Britain, Conn. Wrought-steel butt hinges. 79,236; renewed Aug. 16, 1930.
Stirn, L. & E., New York, N. Y. Velveteen. 269,698; Apr. 15; Serial No. 294,094; published Feb. 4, 1930. Class 42.
Stoor, Harry, Lakewood, Ohio. Cough syrup. 269,669; Apr. 15; Serial No. 293,296; published Jan. 28, 1930. Class 6.
Strasburger, Joseph, Co., to United Shoe Chain, Inc., Washington, D. C., successor. Boots and shoes. 72,405; renewed Jan. 26, 1929.
Stuart Industrial Service Inc., Chicago, Ill. Pharmaceutical preparations. 269,581; Apr. 15; Serial No. 285,767; published Aug. 6, 1929. Class 6.
Sunnybrook Coal Co., Detroit, Mich. Bituminous coal. 269,780; Apr. 15; Serial No. 291,712; published Feb. 4, 1930. Class 1.
Superba Packing Co., San Francisco, Calif. Italian-style ravioli and mushroom sauce. 269,658; Apr. 15; Serial No. 293,801; published Feb. 4, 1930. Class 46.
Swift and Company, Chicago, Ill. Lard. 269,663; Apr. 15; Serial No. 294,031; published Feb. 4, 1930. Class 46.
Thomas, Stephen S., Lebanon, Ohio. Combined pressure regulators, reducers, and gaugers. 269,627; Apr. 16; Serial No. 285,051; published Feb. 4, 1930. Class 18.
Thompson, G. H., Manitowoc, Wis. Cigars. 269,604; Apr. 15; Serial No. 279,198; published Feb. 4, 1930. Class 17.
Tilton & Keeler Inc., New York, N. Y. Cotton piece goods. 269,700; Apr. 15; Serial No. 293,117; published Feb. 4, 1930. Class 42.
Tripoli Barber Supply Co. Inc., Philadelphia, Pa. Hairdressings. 269,683; Apr. 15; Serial No. 293,646; published Jan. 28, 1930. Class 6.
Trucco and Lesiuk. (See Lesiuk, Juan, assignor.)
Trutone Radio Sales Company, New York, N. Y. Electrical device for filters for use with radio receiving apparatus. 269,776; Apr. 15. Class 21.
2 in 1-Shinola-Bixby Corporation, New York, N. Y. Shoe-shining kits. 269,635; Apr. 15; Serial No. 292,186; published Feb. 4, 1930. Class 29.
Union Salt Company, The, Cleveland, Ohio. Salt. 269,715; Apr. 15; Serial No. 292,841; published Jan. 28, 1930. Class 6.
United Shoe Chain, Inc. (See Strasburger, Joseph Co.)
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Wood heels for shoes. 269,712; Apr. 15; Serial No. 292,642; published Jan. 28, 1930. Class 39.

United States Products Corporation, San Jose, Calif. Canned fruit salad, canned vegetables. 269,613; Apr. 15; Serial No. 273,616; published Feb. 4, 1930. Class 46.
Upson Company, The, Lockport, N. Y. Padding or bat for use as a building material. 269,701; Apr. 15; Serial No. 293,165; published Feb. 4, 1930. Class 12.
Utica Hydraulic Cement Company, Utica, Ill. Building cement. 269,615; Apr. 15; Serial No. 272,367; published Feb. 4, 1930. Class 12.
Vereinigte Uhrenfabriken von Gebrüder Junghans und Thomas Haller A.-G., by change of name to Gebrüder Junghans Aktiengesellschaft, Schramberg, Germany. Clockworks, watchcases, and clock and watch dial plates. 77,347; renewed Mar. 29, 1930.
Vino Sano Co., San Francisco, Calif. Malt compound. 269,792; Apr. 15. Class 48.
Vulcan Match Co., Inc., New York, N. Y. Matches. 269,672; Apr. 15; Serial No. 293,497; published Feb. 4, 1930. Class 9.
Wabash Canning Company, The, to Wabash Canning Corporation, Wabash, Ind., successor. Canned tomatoes, peas, corn, etc. 77,348; renewed Mar. 29, 1930.
Wall Rogalsky Milling Company, The, McPherson, Kans. Wheat flour. 269,679; Apr. 15; Serial No. 293,610; published Jan. 28, 1930. Class 46.
Walter, Charles V., Inc., New York, N. Y. Watch crystals. 269,626; Apr. 15; Serial No. 291,595; published Feb. 4, 1930. Class 33.
Walter, Charles V., Inc., New York, N. Y. Watch crystals. 269,628; Apr. 15; Serial No. 291,596; published Feb. 4, 1930. Class 33.
Watson, Angus, & Co. (America) Limited, San Francisco, Calif. Puddings. 269,652; Apr. 15; Serial No. 293,702; published Feb. 4, 1930. Class 46.
Webster Electric Company, Racine, Wis. Audio frequency amplifiers and transformers, choke coils, etc. 269,791; Apr. 15. Class 21.
Weinberg, Ph., & Sons, New York, N. Y. Men's clothing and gent's furnishings. 269,624; Apr. 15; Serial No. 291,374; published Feb. 4, 1930. Class 39.
Weissberger, Ernest, doing business as Pollyanna Shops, New York, N. Y. Dress suits and coats. 269,597; Apr. 15; Serial No. 292,563; published Feb. 4, 1930. Class 39.
Western Elevator & Mfg. Co., San Jose, Calif. Hydraulic hoists. 269,654; Apr. 15; Serial No. 293,760; published Feb. 4, 1930. Class 23.
Western Tablet & Stationery Corporation. (See Blair, J. C., Company, assignor.)
Wheat, Frank B., doing business as Wheat Cabinet & Fixture Co., Los Angeles, Calif. Partitions, rails, and panelling. 269,781; Apr. 15. Class 12.
Wilkins-Rogers Milling Company, Inc., Washington, D. C. Poultry and stock feeds. 269,707; Apr. 15; Serial No. 293,303; published Feb. 4, 1930. Class 46.
Wilkinson Process Rubber Co., Ltd., The, Kuala-Lumpur, Federated Malay States. Prepared crepe India rubber in sheets. 269,606; Apr. 15; Serial No. 278,728; published Feb. 4, 1930. Class 1.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. 78,032; renewed May 24, 1930.
Williams, J. B., Company, The, Glastonbury, Conn. Soap. 78,475; renewed June 14, 1930.
Williams, J. B., Company, The, Glastonbury, Conn. Toilet water. 79,313; renewed Aug. 23, 1930.
Williams, Lewis S., doing business as E. Randall & Co., Romsey, England. Boot and shoe socks. 269,591; Apr. 15; Serial No. 289,863; published Feb. 4, 1930. Class 39.
Willys-Overland Company, The, Toledo, Ohio. Electric switches. 269,804; Apr. 15. Class 21.
Zechnowitz, Samuel, assignor to Consolidated Tea Company, Inc., New York, N. Y. Mixed teas. 34,870; renewed July 10, 1930. Class 46.
Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photographic apparatus, barometers, telescopes, etc. 269,797; Apr. 15. Class 26.
Zeledon, Ralph G., doing business as Seal-Rite Piston Ring Co., Los Angeles, Calif. Piston rings, piston-ring expanders, etc. 269,759; Apr. 15. Class 35.
Zucca's Restaurant, Inc., doing business as Zucca's Italian Gardens, New York, N. Y. Prepared foods. 269,642; Apr. 15; Serial No. 293,895; published Feb. 4, 1930. Class 46.
Zucker Clothing Co., Brooklyn, N. Y. Suits, spring coats, and overcoats. 269,577; Apr. 15; Serial No. 285,131; published Feb. 4, 1930. Class 39.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Cameo Record Corporation, New York, N. Y. Radio. For Talking-Machine Records. 37,329; Apr. 15.
Climalene Company, The, Canton, Ohio. Climalene. For a Preparation Used as a Cleanser, Water Softener, and Soap Saver. 37,330; Apr. 15.
Davidson, Eugene, doing business as The Number Candy Co., Washington, D. C. The Number. For Candy. 37,331; Apr. 15.
Deane Plaster Co., The, Yonkers, N. Y. Smooth to the Last Inch. For Gauze Bandages. 37,332; Apr. 15.
Dixo Company, Newark, N. J. Dixo. For Cleaning Fluid. 37,333; Apr. 15.
Duffy, John A., doing business as Duffy Pure Malt Products Company, Sioux City, Iowa. Duffyets. For Confection. 37,334; Apr. 15.
Gardner Baking Co., Madison, Wis. Fireside Biscuits. For Biscuits. 37,335; Apr. 15.
Goldenberg, Benjamin B., New York, N. Y. Clearskin. For Face Cream. 37,336; Apr. 15.
Lake Woods Auto Polish Co., Los Angeles, Calif. Auto Polish. For Polish for Automobile and Furniture. 37,337; Apr. 15.
Menasha Products Co., The, Chicago, Ill. Ice Cream. For Ice Cream. 37,338; Apr. 15.
Mercedes Co-Operative Association, Mercedes, Tex. Lamp. For Tomatoes. 37,339; Apr. 15.
Number Candy Co., The. (See Davidson, Eugene.)
Perlman Brothers, New York, N. Y. Shrunk-Proof. For Caps. 37,340; Apr. 15.
Pompano Vegetable Growers, Inc., Pompano, Fla. Pompano Brand Florida Tomatoes. For Tomatoes. 37,341; Apr. 15.
Pompano Vegetable Growers, Inc., Pompano, Fla. Pompano Brand Florida Peppers. For Peppers. 37,342; Apr. 15.
Schneider, J. Howard, doing business as Schneider Printing Company, Palmyra, Pa. Genuine Grain Deer Gloves. For Gloves. 37,343; Apr. 15.
Scientific Foods Corporation, Chicago, Ill. Powdo Orange Juice Compound. For Orange-Juice Compound. 37,344; Apr. 15.
Shepard, Charles, Boston, Mass. Hairlene. For a Preparation for the Hair and Scalp. 37,345; Apr. 15.
Van Brocklin Bros., Memphis, Tenn. Snow Crush. For Sacks of Flour. 37,346; Apr. 15.
Vellner, Eugene, Philadelphia, Pa. Evenol. For Oils. 37,347; Apr. 15.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

C & H Products Co., Cincinnati, Ohio. The Wallet Inaugurates a New Era in Cigarette Container History. For Cigarette Containers. 12,476; Apr. 15.
Cream of Wheat Corporation, The, Minneapolis, Minn. Round Red Cheeks and Bright Blue Eyes for Little Charles Van Rensselaer, III. For Wheat Breakfast Food. 12,477; Apr. 15.
Dutton, Clara, doing business as Ye What Not Studio, Burlington, Iowa. Darn Quick Saves Hose Darn Quick. For Mending Preparation for Hosiery. 12,478; Apr. 15.
Heins, H. J., Company, Pittsburgh, Pa. Announcing—A New Help in Solving the Housewives Problems. For Heins 57 Varieties. 12,479; Apr. 15.
Kramo Manufacturing Corporation, Philadelphia, Pa. Kramo Caps. For Bottle Caps. 12,480; Apr. 15.
Ostermoor & Co. Inc., New York, N. Y. Ostermoor. For Mattresses. 12,481; Apr. 15.
Shaw, Walter W., Winnipeg, Canada. Applesauce. For Candy Bars. 12,482; Apr. 15.
United States Rubber Company, New York, N. Y. The Mark of a Skilled Rebuilder. For Soles and Heels. 12,483; Apr. 15.
Ye What Not Studio. (See Dutton, Clara.)

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

All-American Mohawk Corporation, Chicago, Ill. Radio receiving sets and component parts thereof. 291,545; Apr. 15. Class 21.
American Cirrus Engines, Inc., Marysville, Mich. Internal-combustion engines and parts thereof. 296,312; Apr. 15. Class 23.
American Oil & Disinfectant Corporation, New York, N. Y. Concentrated soap. 293,765; Apr. 15. Class 4.
American Paper Exports, Inc., New York, N. Y. Paper and papeteries. 294,904; Apr. 15. Class 37.
American Paper Exports, Inc., New York, N. Y. Paper, envelopes, and papeteries. 294,906–7; Apr. 15. Class 37.
American Stay Company, East Boston, Mass. Leather lacing of general application. 293,766; Apr. 15. Class 1.
American Thrift Holding Company, Jacksonville, Fla. Bank pass books, signature cards, deposit checks, and drafts. 296,111; Apr. 15. Class 37.
Ames Shovel and Tool Company, North Easton, Mass. Shovels. 293,208; Apr. 15. Class 22.
Ayer Company, The, Lowell, Mass. Medicinal preparation. 292,709; Apr. 15. Class 6.
Bamberger, L., & Co., Newark, N. J. Hosiery. 296,471; Apr. 15. Class 39.
Bankers Publishing Company, Milwaukee, Wis. Section of a periodical. 291,858; Apr. 15. Class 38.
Battle Creek Wafer & Specialty Co. (See Muller Bakeries, Incorporated.)
Beaver Products Company, Inc., The, Buffalo, assignor to Certain-teed Products Corporation, New York, N. Y. Fibre boards, plaster board, plaster, etc. 245,078; Apr. 15. Class 12.
Becker Bros. & Gerber, Chicago, Ill. Malt marrow syrup. 295,204; Apr. 15. Class 46.
Best & Co., Inc., New York, N. Y. Coats, dresses, hats, etc. 294,954; Apr. 15. Class 39.
Better Way Products Company, The, Charleston, S. C. Chemical compound for removing carbon. 294,663; Apr. 15. Class 6.
Beverage Sales, Inc., New York, N. Y. Maltless pineapple-juice beverages and ingredients for the same. 293,088; Apr. 15. Class 45.
Beverly Hall Corporation, Beverly Hall, Quakertown, Pa. Periodicals. 295,601; Apr. 15. Class 38.
Bienenfeld Glass Works, Inc., Brooklyn, N. Y. Rolled glass. 297,001; Apr. 15. Class 33.
Black Eagle Brewing Co. (See Frederick, James.)
Bloch Freres, Inc., New York, N. Y. Handkerchiefs. 296,387; Apr. 15. Class 42.
Blosser Company, The, Atlanta, Ga. Cigarettes. 295,066; Apr. 15. Class 6.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 296,951; Apr. 15. Class 42.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 296,953; Apr. 15. Class 42.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 296,955; Apr. 15. Class 42.
Boott Mills, Lowell, Mass. Cotton twine. 261,763; Apr. 15. Class 7.
Bosserman, John H., doing business as John H. Bosserman Laboratories, Mankato, Kans. Tonic. 295,251; Apr. 15. Class 6.
Bowen, William L., East Orange, N. J. Hats. 293,259; Apr. 15. Class 39.
Boyce, R. A., Co., Inc., Donna, Tex. Fresh vegetables. 295,313; Apr. 15. Class 46.
Brach, L. S., Manufacturing Corp., Newark, N. J. Electrical glow-indicating devices. 290,777; Apr. 15. Class 21.
Brady, E. M., Eustis, Fla. Miniature golf courses and score cards. 296,900; Apr. 15. Class 22.
Bragg, Earl R., doing business as Bragg Plaster Company, Monroe, Mich. Detergent paste. 285,620; Apr. 15. Class 6.
Bright Light Reflector Company. (See Litner, Isaac.)
Brown, Curtis P., administrator of the estate of Howard C. Brown, doing business as The Brown Silk Braid Company, East Hampton, Conn. Fishing lines. 296,629; Apr. 15. Class 22.
Brown, Durrell Co., Boston, Mass. Sanitary napkins. 296,331; Apr. 15. Class 44.
Buerger Brothers Supply Company, The, Denver, Colo. Hairdressing. 296,579; Apr. 15. Class 6.
Byam, Wallace M., doing business as Western Music and Radio Trades Journal, Los Angeles, Calif. Periodicals. 295,327; Apr. 15. Class 38.
Carter, H. W., & Sons, Lebanon, N. H. Overalls, pants, coats, etc. 296,395; Apr. 15. Class 39.
Carter, H. W., & Sons, Lebanon, N. H. Overalls, pants, coats, etc. 296,689; Apr. 15. Class 39.
Certain-teed Products Corporation. (See Beaver Products Company, Inc., The, assignor.)
Chase, C. H., Cincinnati, Ohio. Cigars. 296,581; Apr. 15. Class 17.
Cia. Charutos Danneman, Sao Felix, Brazil. Cigars. 293,572; Apr. 15. Class 17.

Clearskin Laboratories, Inc. (See Goldenberg, Benjamin B.)
Cleveland Fruit Juice Company, The, Cleveland, Ohio. Fruit syrup for nonalcoholic beverages. 296,090; Apr. 15. Class 45.
Climax Publishing Corporation, New York, N. Y. Periodical. 295,607; Apr. 15. Class 38.
Cobb, J. B., Company, Charleston, W. Va. Hosiery. 274,705; Apr. 15. Class 39.
Coble, Walter S., Brooklyn, N. Y. Face powder, rouge, lip stick, etc. 294,869; Apr. 15. Class 6.
Cohen, Julius, Paterson, N. J. Dresses and nurses' uniforms. 296,296; Apr. 15. Class 39.
Colgate-Palmolive-Peet Company, Chicago, Ill. Toothbrushes. 282,918; Apr. 15. Class 29.
Collection Equipment Company, New York, N. Y. Automotive truck vehicles. 279,725; Apr. 15. Class 19.
Columbia Fastener Company, Chicago, Ill. Mucilage. 295,782; Apr. 15. Class 6.
Compagnie du Fibro-Glateor, Paris, France. Pasteboard. 272,699; Apr. 15. Class 37.
Continental Optical Company, Indianapolis, Ind. Ophthalmic lenses. 296,092; Apr. 15. Class 26.
Cordova Company, The. (See Franklin, John L.)
Cotton-Textile Institute, Inc., The, New York, N. Y. Periodicals. 294,473; Apr. 15. Class 38.
Court Payen & Falque, Marseille, France. Soaps. 284,606; Apr. 15. Class 4.
Cropper, Dallas S., Cambridge, Ohio. Bread. 296,108; Apr. 15. Class 46.
Cross, Henry H., Company, Chicago, Ill. Petroleum gear lubricant. 294,069; Apr. 15. Class 15.
Curtis & von Bermuth Mfg. Co., New York, N. Y. Lap robes. 282,975; Apr. 15. Class 42.
Davis, Mitchell, doing business as Karay Company, Philadelphia, Pa. Medicinal and pharmaceutical preparations. 295,331; Apr. 15. Class 6.
Davis, Walter M., doing business as Davis Chemical Co., Mason City, Iowa. Hand and face lotion. 294,946; Apr. 15. Class 6.
Deagan, J. C., Inc., Chicago, Ill. Percussion musical instruments. 295,154; Apr. 15. Class 36.
Delray Corporation, San Francisco, Calif. Italian dinner, and chicken ravioli, mushroom sauce, etc. 295,470; Apr. 15. Class 46.
Delta Phi Delta, West Lafayette, Ind. Fraternity pins, badges, and keys. 295,509; Apr. 15. Class 28.
Diamond Foot Remedies Co., Chicago, Ill. Medicated corn, bunion, and callous plasters. 296,096; Apr. 15. Class 6.
Dickson City Bottling Works, Dickson City, Pa. Carbonated beverages and syrups and extracts used in making same. 296,095; Apr. 15. Class 45.
Dixon, William, Incorporated, Newark, N. J. Pliers, engraving tools, files, and saws. 296,950; Apr. 15. Class 23.
Doehler Furniture Co., Inc., New York, N. Y. Furniture. 296,175; Apr. 15. Class 32.
D'Olier, Henry, jr., doing business as Lighting Accessories Service, Bridgeport, Conn. Electric-light-wiring fixtures and appliances. 288,901; Apr. 15. Class 21.
Dollar Line, Inc., The, New York, N. Y. Children's dresses. 291,384; Apr. 15. Class 39.
Eagle Pencil Company, New York, N. Y. Rubber erasers. 295,730; Apr. 15. Class 37.
Edelblute, Thomas H., doing business as T. H. Edelblute Company, Pittsburgh, Pa. Jacks of the chain and sprocket type. 288,495; Apr. 15. Class 23.
Edgeworth Razor Blade Co., New York, N. Y. Razor blades. 295,510; Apr. 15. Class 28.
Eisenstadt Manufacturing Company, St. Louis, Mo. Pocketknives. 296,911; Apr. 15. Class 23.
Electric Heater Corporation, The, Bridgeport, Conn. Instantaneous water heaters, electric steam generators, and electric foot warmers. 294,802; Apr. 15. Class 21.
Electric Soldering Iron Co., Inc., New York, N. Y. Electric soldering irons. 296,405; Apr. 15. Class 21.
Electro-Matic Mfg. Co. Inc., Newark, N. J. Water heaters. 289,578; Apr. 15. Class 34.
Ellison, Nellie, Inc., Milwaukee, Wis. Cleansing cream, muscle oil, special astringent, etc. 291,967; Apr. 15. Class 6.
Elms, J. C., European Hair Co., Inc., doing business as J. C. Elms, St. Louis, Mo. Hair washes, cleansing powders, hair dyes, etc. 294,844; Apr. 15. Class 6.
Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 296,734; Apr. 15. Class 22.
Fawcett Publications, Inc., Robbinsdale, Minn. Magazines. 295,512; Apr. 15. Class 38.
Fearon, C. Fred, Manchester, N. H. Ice-cream confection. 295,024; Apr. 15. Class 46.
First National Stores Inc., Boston and Somerville, Mass. Toothpicks. 295,664; Apr. 15. Class 44.
Flatbush Gum Company, Inc., Brooklyn, N. Y. Chewing gum. 293,662; Apr. 15. Class 46.

Four Roses Malt Extract Company, doing business as Hell-O World Malt Extract Co., Cincinnati, Ohio. Malt syrups and extracts. 296,097; Apr. 15. Class 46.
Fox, I. J., Inc., New York, N. Y. Coats, wraps, neck pieces, etc. 296,416; Apr. 15. Class 39.
Franklin, John L., doing business as The Cordova Company, Atlanta, Ga. Ginger ale. 296,805; Apr. 15. Class 45.
Frederick, James, doing business as Black Eagle Brewing Co., Chicago, Ill. Malt beverage. 295,155; Apr. 15. Class 48.
Freudenberg, Carl, Incorporated, Boston, Mass. Leather. 296,518; Apr. 15. Class 1.
Friedlien, H. L., & Company, Chicago, Ill. Leather jackets, leather coats, raincoats, and rain jackets. 285,966; Apr. 15. Class 39.
Gemex Company, Newark, N. J. Watch bracelets and straps, finger rings, belt buckles, etc. 294,514; Apr. 15. Class 28.
General Electric Company, Schenectady, N. Y. Air brakes and parts thereof. 296,334; Apr. 15. Class 19.
Gentile Bros. Company, Cincinnati, Ohio, and Orlando, Fla. Citrus fruits. 296,739; Apr. 15. Class 46.
Goeller, Lawrence E., doing business as The Kippy-Kit Company, Circleville, Ohio. Sets consisting of brushes in leather cases. 296,835; Apr. 15. Class 29.
Gold Star Remedy Co. (See Moore, Albert H.)
Goldenberg, Benjamin B., doing business as Clearskin Laboratories, New York, N. Y. Face cream. 295,802; Apr. 15. Class 6.
Good, James, Inc., Philadelphia, Pa. Wax. 294,874; Apr. 15. Class 16.
Gray Envelope Manufacturing Company, Inc., The, Brooklyn, N. Y. Correspondence and mailing envelopes. 296,387–8; Apr. 15. Class 37.
Gray Envelope Manufacturing Company, Inc., The, Brooklyn, N. Y. Correspondence and mailing envelopes. 296,340; Apr. 15. Class 37.
Grean, Alexandre M., doing business as Grean Company, New York, N. Y. Fabric scarfs. 292,803; Apr. 15. Class 39.
Greenwood Creamery Company, Greenwood, S. C. Dairy products. 295,843; Apr. 15. Class 46.
Greenwood, Mary F., Des Moines, Iowa. Card game. 294,921; Apr. 15. Class 22.
Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 295,356; Apr. 15. Class 28.
Gross, Benjamin & Edward J., Co., Inc., New York, N. Y. Finger rings and mountings therefor. 295,358; Apr. 15. Class 28.
Ha-Ber-San Manufacturing Corp., New York, N. Y. Shirts and pajamas. 295,160; Apr. 15. Class 39.
Hall Electric Heating Company, Inc., Philadelphia, Pa. Electrical heat storage water and building heaters and circuit-control apparatus therefor. 288,187; Apr. 15 Class 21.
Hall Electric Heating Company Inc., Philadelphia, Pa. Thermostats. 295,899; Apr. 15. Class 26.
Harper's Bazar, Inc., New York, N. Y. Magazine. 295,504; Apr. 15. Class 38.
Heilbronn, J. P., Company, Manila, P. I., and New York, N. Y. Bond and note paper, writing tablets, mimeograph paper, etc. 295,565; Apr. 15. Class 37.
Heinl, Robert D., Washington, D. C. Periodical news articles. 295,791; Apr. 15. Class 38.
Hell-O World Malt Extract Co. (See Four Roses Malt Extract Company.)
Herco Products Co. (See Hernandez, Luis.)
Hernandez, Luis, doing business as Herco Products Co., Long Island City, N. Y. Insecticides. 296,524; Apr. 15. Class 6.
Hickok, George F., San Francisco, Calif. Pruning shears. 295,674; Apr. 15. Class 28.
Hookless Fastener Company, Meadville, Pa. Hand bags, pocketbooks, brief cases, etc. 294,263; Apr. 15. Class 3.
Howell Company, Inc., The, New Orleans, La. Preparation of petroleum jelly for the hair and skin, etc. 296,009; Apr. 15. Class 6.
Hunter-Walker Company, Houston, Tex. Sleeves and couplings for electric wire and cable conduits. 295,516; Apr. 15. Class 21.
Hydrox Ice Cream Company, Inc., Long Island City, N. Y. Ice cream. 293,275–6; Apr. 15. Class 46.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Odoriferons and aromatic chemicals. 295,473–4; Apr. 15. Class 6.
I-T-E Circuit Breaker Company, Philadelphia, Pa. Automatic electric switches and automatic air circuit breakers. 278,349; Apr. 15. Class 21.
Inland Milling Company, Des Moines, Iowa. Wheat flour 295,222; Apr. 15. Class 46.
International Extract Co. (See Paul, Milton.)
Iodine Research Laboratories, Inc., Santa Monica, Calif. Germicides. 294,019; Apr. 15. Class 6.
Jackes-Evans Manufacturing Company, St. Louis, Mo. Stovepipe. 296,348; Apr. 15. Class 34.
Jean Chemical Company. (See Sugaski, John D.)

Jelke, John F., Company, Hillsboro, Wis. Evaporated milk. 295,269; Apr. 15. Class 46.
Jenny Wren Company, Lawrence, Kans. Self-rising flour. 295,987; Apr. 15. Class 46.
Karay Company. (See Davis, Mitchell.)
Karpas, I. D., & Company, Inc., New York, N. Y. Wearing apparel. 294,263; Apr. 15. Class 39.
Kastin, Murray B., New York, N. Y. Publication. 295,594; Apr. 15. Class 38.
Keystone Steel & Wire Company, Peoria, Ill. Spring wire. 295,479; Apr. 15. Class 14.
Kippy-Kit Company, The. (See Goeller, Lawrence E.)
Kochring Company, Milwaukee, Wis. Dumping tractor trucks and dumping motor trucks. 295,625; Apr. 15. Class 19.
Kohnstamm, H., & Co., Inc., New York, N. Y. Laundry nets. 295,480; Apr. 15. Class 24.
Koppers Company, The, Pittsburgh, Pa. Coke. 296,969; Apr. 15. Class 1.
Korkers Company, The, Cincinnati, Ohio. Adhesive patches. 289,976; Apr. 15. Class 5.
Lampen- und Metallwarenfabriken R. Ditmar Gebrüder Brünner A. G., Vienna, Austria. Lamps, lanterns, stoves, etc. 282,864–5; Apr. 15. Class 34.
Levin's, S. H., Sons, Philadelphia, Pa. Canned tomatoes. 276,573; Apr. 15. Class 46.
Levy Brothers Dry Goods Company, Houston, Tex. Wearing apparel. 282,787; Apr. 15. Class 39.
Lewis, Dorothy, Cleveland, Ohio. Hairdressing preparations and a preparation for the treatment of the hair and scalp. 294,359; Apr. 15. Class 6.
Lewis, Helen W., Cleveland, Ohio. Bed tables. 296,703; Apr. 15. Class 32.
Lighting Accessories Service. (See D'Olier, Henry, jr.)
Litner, Isaac, doing business as Bright Light Reflector Company, Brooklyn, N. Y. Lighting apparatus. 293,831; Apr. 15. Class 34.
Lustig's, Youngstown, Ohio. Hosiery. 282,304; Apr. 15. Class 39.
MacAndrews & Forbes Company, Camden, N. J. Medicinal preparation. 296,060; Apr. 15. Class 6.
Mallard, Albert E., Detroit, Mich. Tablets and capsules used as a biliary stimulant. 296,070; Apr. 15. Class 6.
Malleable Iron Range Company, Beaver Dam, Wis. Electric ranges, ovens, hot plates, etc. 295,075; Apr. 15. Class 21.
Marathon Razor Blade Co., Inc., Irvington, N. J. Safety-razor blades. 296,128; Apr. 15. Class 23.
Marlboro Wire Goods Company, Marlboro, Mass. Soap dishes, toothbrush holders, towel racks, etc. 295,628–30; Apr. 15. Class 13.
Maroquin, Carlos C., San Antonio, Tex. Medicinal tonic. 296,283; Apr. 15. Class 6.
Marshall-Wells Company, Duluth, Minn. Woven-wire fence. 295,433; Apr. 15. Class 13.
Martin-Copeland Company, Providence, R. I. Ophthalmic mounting. 296,018; Apr. 15. Class 26.
Mauer, Ruth D., Corporation, New York, N. Y. Cosmetics. 296,605; Apr. 15. Class 6.
Merrell-Hellman Laboratory, St. Louis, Mo. Toilet articles and preparations. 296,607; Apr. 15. Class 6.
Merz, Friedrich, doing business as Merz & Co., Frankfort-on-the-Main, Germany. Anæsthetic. 294,884; Apr. 15. Class 6.
Middleton-Hyde Manufacturing Co. Inc., The, Philadelphia, Pa. Saws, putty knives, wall scrapers, and planes. 294,851; Apr. 15. Class 23.
Miller Wholesale Drug Company, Cleveland, Ohio. Atomizers and nebulizers and sprayers. 296,075; Apr. 15. Class 44.
Mirsky, Joseph, doing business as Mirsky Products Co., New York, N. Y. Snuff tobacco and smoking tobacco. 296,355; Apr. 15. Class 17.
Mitchell Chemical Co., Cleveland, Ohio. Preparation for destroying dandruff, etc. 296,541; Apr. 15. Class 6.
Mon Docteur Importing Co., Inc., Middlefield, Conn. Medication for antiseptic purposes. 295,530; Apr. 15. Class 6.
Mon Docteur Importing Co., Inc., Middlefield, Conn. Vaginal syringes and douche bags. 295,531; Apr. 15. Class 44.
Monte Vista Commercial Club, The, Monte Vista, Colo. Annual publication. 290,189; Apr. 15. Class 38.
Moore, Albert H., doing business as Gold Star Remedy Co., New Orleans, La. Preparation for treatment of coughs, antiseptic powders, etc. 296,135; Apr. 15. Class 6.
Muir Laboratories, Grand Rapids, Mich. Medicinal preparation. 296,232; Apr. 15. Class 6.
Muller Bakeries, Incorporated, doing business as Battle Creek Wafer & Specialty Co., Grand Rapids, Mich. Sugar wafers. 295,532; Apr. 15. Class 46.
N. V. Kristal-, Glas- en Aardewerkfabrieken de Sphinx Voorheen Petrus Regout & Co., Maastricht, Netherlands. Ceramic products in the most extensive sense of earthenware fire clay and vitreous china. 291,999; Apr. 15. Class 30.
National Licorice Company, Brooklyn, N. Y. Licorice candy. 295,688; Apr. 15. Class 46.
National Paper & Type Co., Inc., New York, N. Y. Bond paper. 295,857; Apr. 15. Class 37.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

National Recording Pump Co., Dayton, Ohio. Self-measuring gasoline-dispensing apparatus. 296,137; Apr. 15; Class 26.
National Washboard Company, Chicago, Ill. Washboards. 295,806; Apr. 15. Class 24.
New Jersey Wire Cloth Co., The, Trenton, N. J. Wire cloth. 295,385; Apr. 15. Class 13.
Non-Soot Manufacturing Company. (See Zimmern, Samuel.)
Norwich Pharmacal Company, The, Norwich, N. Y. Deodorant, toilet, corn, etc., powder. 294,273; Apr. 15. Class 6.
Official Aviation Guide Company, Inc., The, Chicago, Ill. Aviation guide, a periodical. 296,077; Apr. 15. Class 38.
Oliver Farm Equipment Company, Chicago, Ill. Tractors and parts therefor. 294,236; Apr. 15. Class 23.
Oregon Pulp and Paper Co., Salem, Oreg. Bond paper. 295,750–1; Apr. 15. Class 37.
Paul, Milton, doing business as International Extract Co., New York, N. Y. Food-flavoring extracts and concentrates. 296,437; Apr. 15; Class 46.
Peck, Stow & Wilcox Company, The, Southington, Conn. Mechanics' hand tools. 293,592; Apr. 15. Class 23.
Pep Boys-Manny, Moe & Jack, The, doing business as Stratford Storage Battery Co., Philadelphia, Pa. Storage batteries. 286,707; Apr. 15. Class 21.
Picardi, Mariano, doing business as Picardi's Pharmacies, Newark, N. J. Digestant, antacid, and laxative compound. 295,954; Apr. 15. Class 6.
Porter, Richard H., Chicago, Ill. Periodical. 295,825; Apr. 15. Class 38.
Povson, Limited, Kingsway, London, England. Chocolate-making machinery. 291,237; Apr. 15. Class 23.
Pure Oil Company, The, Chicago, Ill. Illuminating oils, motor-fuel oils, greases, etc. 289,251; Apr. 15. Class 15.
Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. 288,432; Apr. 15. Class 11.
Reid, L. E. Wheeler, Hollywood, Calif. Periodical magazine. 238,525; Apr. 15. Class 38.
Reiss-Premier Pipe Co., West New York, N. J. Pipes, cigar holders, and cigarette holders. 296,236; Apr. 15. Class 8.
Robbins Bros., doing business as Star Dry Goods Co., Worcester, Mass. Hosiery, underwear, shirts, etc. 296,446; Apr. 15. Class 39.
Robbins & Myers, Inc., Springfield, Ohio. Combined electrically-operated drink mixer and juice extractor. 296,150; Apr. 15. Class 21.
Rogers, M. H., Inc., New York, N. Y. Textile rugs. 296,716; Apr. 15. Class 42.
Rummel, Himes & Company, Shippensburg, Pa. Coats. 294,741; Apr. 15. Class 39.
Runkel Brothers, Inc., New York, N. Y. Chocolate. 296,670; Apr. 15. Class 46.
Sarfert, Harry, Philadelphia, Pa. Hosiery. 294,689; Apr. 15. Class 39.
Schmidt, Frederick C. J., Kansas City, Mo. Blankets. 294,444; Apr. 15. Class 42.
Shirtcraft Company, Inc., The, New York, N. Y. Clothing. 296,495; Apr. 15. Class 39.
Shpritz, Dr. Abraham S., Baltimore, Md. Gas. 295,643; Apr. 15. Class 6.
Sims, F. & F., London, Ontario, Canada. Mirrors and optical devices for sighting objects. 293,560; Apr. 15. Class 26.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal preparation. 296,823; Apr. 15. Class 6.
Sonneborn Brothers, Inc., New York, N. Y. Coats, vests, trousers, and overcoats. 296,082; Apr. 15. Class 39.
Speed-E Company, Oakland, Calif. Food shredders. 296,820; Apr. 15. Class 23.
Standard Biscuit Company, The, Des Moines, Iowa. Cake flour. 295,983; Apr. 15. Class 46.
Standard Produce Co., Brawley, Calif. Fresh deciduous fruits, fresh citrus fruits, etc. 295,581; Apr. 15. Class 46.
Star & City Bakeries. (See Vaughan, Wilson.)
Star Dry Goods Co. (See Robbins Bros.)
Steel Publications Incorporated, Pittsburgh, Pa. Periodical. 294,695; Apr. 15. Class 38.
Stein, Anna, New York, N. Y. Horse-radish. 289,803; Apr. 15. Class 46.
Stein-Bloch Co., The, Rochester, N. Y. Coats, vests, pants, and overcoats. 295,092; Apr. 15. Class 39.
Sterling Hosiery Mills, Forest City, N. C. Hosiery. 295,698; Apr. 15. Class 39.
Stewart, George R., doing business as Wagstaff Coffee Company, Detroit, Mich. Coffee. 296,782–3; Apr. 15. Class 46.
Stewart-Warner Corporation, Chicago, Ill. Shock absorber. 294,546; Apr. 15. Class 19.
Stockade Corporation, The, Chicago, Ill. Soundproof building blocks. 296,086; Apr. 15. Class 12.
Stratford Storage Battery Co. (See Pep Boys-Manny, Moe & Jack, The.)
Sugar Publications, Inc., New York, N. Y. Publication. 295,400; Apr. 15. Class 38.
Sugaski, John D., doing business as Jean Chemical Company, Elyria, Ohio. Preparation for the extermination of rats, mice, and gophers. 295,242; Apr. 15. Class 6.
Sunbeam Motor Car Co., Ltd., The, Wolverhampton, England. Internal-combustion engines. 292,605; Apr. 15. Class 28.
Superior Type Company, The, Chicago, Ill. Ink. 295,869; Apr. 15. Class 11.
Superior Underwear Company, The, Piqua, Ohio. Swimming suits. 296,785; Apr. 15. Class 39.
Sweet Candy Company, Salt Lake City, Utah. Candy. 296,615; Apr. 15. Class 46.
Tanners Shoe Company, Boston, Mass. Shoes. 293,901; Apr. 15. Class 39.
Tavshanjian, H. S., Inc., New York, N. Y. Persian rugs. 296,153; Apr. 15. Class 42.
Taylor Instrument Companies, Rochester, N. Y. Urinalysis glassware. 296,931; Apr. 15. Class 26.
Textile Import Corporation, New York, N. Y. Rugs or floor coverings of rubber. 296,881; Apr. 15. Class 50.
Thomas & Hochwalt Laboratories, Inc., Dayton, Ohio. Preparation for use in the removal of carbon. 296,996; Apr. 15. Class 6.
Triad Manufacturing Co., Inc., Pawtucket, R. I. Electron tubes. 294,192; Apr. 15. Class 21.
Tuttle & Bailey Manufacturing Company, New York, N. Y. Dampers for ventilating purposes. 295,445; Apr. 15. Class 34.
United Drug Company, Boston, Mass. Hot-water bottles. 295,194; Apr. 15. Class 44.
U. S. Manufacturing Corporation, Decatur, Ill. Piece goods. 279,976; Apr. 15. Class 42.
Utility Manufacturing Co., Inc., Baltimore, Md. Strainers, ladles, soap savers, etc. 295,403; Apr. 15. Class 13.
Vaughan, Wilson W., doing business as Star & City Bakeries, Mineral Wells, Tex. Bread. 285,609; Apr. 15. Class 46.
Villazon & Co., Tampa, Fla. Cigars. 296,835–6; Apr. 15. Class 17.
Vorclone Corporation, Milwaukee, Wis. Drying tumblers. 295,984; Apr. 15. Class 24.
Wagstaff Coffee Company. (See Stewart, George R.)
Walker, Graydon L., doing business as Wave-Maid Laboratories, Seattle, Wash. Hairdressing preparation. 295,986; Apr. 15. Class 6.
Walsh, Christy, New York, N. Y. Heading for a series of articles. 291,188; Apr. 15. Class 38.
Wappat, Incorporated, Pittsburgh, Pa. Electric bandsaws, planes, drills, etc. 296,038; Apr. 15. Class 21.
Wave-Maid Laboratories. (See Walker, Graydon L.)
Weisstein, Samuel N., Brooklyn, N. Y. Record-card holders. 295,968; Apr. 15. Class 37.
Western Air Express Corporation, Los Angeles, Calif. Bimonthly publication. 282,718; Apr. 15. Class 38.
Western Music and Radio Trades Journal. (See Byam, Wallace M.)
Wheeling Corrugating Company, Wheeling, W. Va. Metal stovepipe. 294,903; Apr. 15. Class 34.
Wilt, Chas. T., Company, Chicago, Ill. Suitcases and traveling bags. 291,073; Apr. 15. Class 3.
Winebrener & Cramer, Inc., Frederick, Md. Coffee. 296,995; Apr. 15. Class 46.
Witt, Frank, doing business as Witt's Manufacturing Company, Oakland, Calif. Shaving lotion, face cream, skin lotions, and hair tonics. 292,146; Apr. 15. Class 6.
Wood, James W., Twin Falls, Idaho. Honey-melting machines. 296,936; Apr. 15. Class 23.
Year Book Publishing Co., Inc., New York, N. Y. Magazine. 295,450; Apr. 15. Class 38.
Zimmern, Samuel, doing business as Non-Soot Manufacturing Company, Mobile, Ala. Soot-eliminating product. 295,708; Apr. 15. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Charcoal and lawn seeds. Kroger Grocery & Baking Co. 269,764; Apr. 15.
Coal. Inland Consolidated Coal Corporation. 269,756; Apr. 15; Serial No. 284,858; published Feb. 4, 1930.
Coal. Love & Amos Coal Company. 269,796; Apr. 15.
Coal, Bituminous. Sunnybrook Coal Co. 269,730; Apr. 15; Serial No. 291,712; published Feb. 4, 1930.
Grit, Poultry. Carthage Crushed Limestone Company. 269,612; Apr. 15; Serial No. 274,097; published Feb. 4, 1930.
Peat moss. H. R. Motts. 269,768; Apr. 15.
Rubber in sheets, Prepared crepe India. Wilkinson Process Rubber Co., Ltd. 269,606; Apr. 15; Serial No. 278,728; published Feb. 4, 1930.
Seed grains, grass seeds, and garden seeds. Cargill Elevator Co. 78,576–7; renewed June 7, 1930.

Seeds and seed grains. Cargill Elevator Co. 78,162; renewed May 31, 1930.
Seeds and seed grains. Albert Dickinson Company. 84,295; renewed Mar. 6, 1930.
Skins, Dyed rabbit. Philip A. Singer & Bro. Inc. 269,810; Apr. 15.
Skins, Tanned kid. Amalgamated Leather Companies. 269,601; Apr. 15; Serial No. 279,905; published Feb. 4, 1930.
Sponges and chamois. Allied Industrial Products Co. 269,587; Apr. 15; Serial No. 287,990; published Oct. 1, 1929.

CLASS 2

Hampers, Fruit and vegetable. Manatee Crate Company. 269,602; Apr. 15; Serial No. 279,802; published Feb. 4, 1930.
Plates and dishes. Keyes Fibre Company. 269,697; Apr. 15; Serial No. 293,053; published Feb. 4, 1930.

CLASS 3

Bags, Hand. Edward Elias, Inc. 269,771; Apr. 15.
Container, Leather key. S & G Leather Goods Co. 269,643; Apr. 15; Serial No. 293,487; published Jan. 28, 1930.
Purses, hip-fold wallets, key cases, etc., Combination coin. Diary Publishing Corporation. 269,607; Apr. 15; Serial No. 277,753; published Feb. 4, 1930.
Saddlery hardware. Covert Manufacturing Company. 269,631; Apr. 15; Serial No. 291,859; published Jan. 28, 1930.

CLASS 4

Soap. J. B. Williams Company. 78,032; renewed May 24, 1930.
Soap. J. B. Williams Company. 78,475; renewed June 14, 1930.
Soap, Semi-liquid. Rexine Co. 77,045; renewed Mar. 1, 1930.

CLASS 5

Adhesive cement. Martin Chemical Products Company. 269,720; Apr. 15; Serial No. 292,998; published Feb. 4, 1930.
Chemical composition for use as sealing wax. J. Lesiuk. 269,731; Apr. 15; Serial No. 282,417; published Jan. 28, 1930.
Glues and pastes. Liquid Dehydration Corporation. 269,580; Apr. 15; Serial No. 285,576; published Feb. 4, 1930.

CLASS 6

Antiseptic, Genito-urinary. Bio-Medical Research Laboratories, Incorporated. 269,719; Apr. 15; Serial No. 292,968; published Jan. 28, 1930.
Carbon dioxide. Colorado Dry-Ice Corporation. 269,713; Apr. 15; Serial No. 292,656; published Jan. 28, 1930.
Carbons, Activated adsorption and decolorizing. Metallgesellschaft Aktiengesellschaft. 269,687; Apr. 15; Serial No. 293,676; published Jan. 28, 1930.
Chemical substances. H. R. Hills. 269,629; Apr. 15; Serial No. 291,828; published Jan. 28, 1930.
Cough syrup. H. Stoor. 269,669; Apr. 15; Serial No. 293,296; published Jan. 28, 1930.
Cream, Cold. Mrs. W. Leigh. 269,795; Apr. 15.
Earth compound, Rare. Colorado Natural Remedy Association. 269,596; Apr. 15; Serial No. 292,522; published Jan. 28, 1930.
Extracts, Vegetable. Alcardol Corporation. 269,634; Apr. 15; Serial No. 292,150; published Jan. 28, 1930.
Hairdressings. Tripoli Barber Supply Co. Inc. 269,683; Apr. 15; Serial No. 293,646; published Jan. 28, 1930.
Headache powder, damiana, liver pills, foot powder, etc. John Hiland Co. 269,746; Apr. 15; Serial No. 270,839; published Jan. 28, 1930.
Hexamethylenetetramine or hexamethylenamine (U. S. P.), either pure or in admixture with other suitable substances. Schering & Glatz, Inc. 269,754; Apr. 15; Serial No. 115,490; published June 25, 1929.
Insecticide. B. & B. Chemical Corporation. 269,677; Apr. 15; Serial No. 293,568; published Jan. 28, 1930.
Insecticides. Friedman Tobacco Products Corporation. 269,583; Apr. 15; Serial No. 285,968; published Jan. 28, 1930.
Laxative tablets. Plapao Laboratories, Inc. 269,751; Apr. 15; Serial No. 249,863; published June 4, 1929.
Laxatives. Race Laboratories, Inc. 269,678; Apr. 15; Serial No. 293,596; published Jan. 28, 1930.
Lozenges. C. Anastasia. 269,718; Apr. 15; Serial No. 292,959; published Jan. 28, 1930.
Medicinal preparation. B. Kragiel. 269,695; Apr. 15; Serial No. 292,500; published Jan. 28, 1930.
Medicines and toilet preparations. Mrs. Nettie Harrison Co. 76,974; renewed Mar. 1, 1930.
Mono-sodium salt of diethyl-barbituric acid, sodium diethyl-barbiturate. Schering & Glatz, Inc. 269,758; Apr. 15; Serial No. 115,488; published June 25, 1929.
Perfumery. Molinelle (London) Limited. 269,681; Apr. 15; Serial No. 293,633; published Jan. 28, 1930.
Pharmaceutical preparations. Stuart Industrial Service Inc. 269,581; Apr. 15; Serial No. 285,767; published Aug. 6, 1929.
Powder, Bath. Les Parfums de Rosine, Inc. 269,747; Apr. 15; Serial No. 270,298; published Jan. 28, 1930.
Preparation for removing carbon. H. L. Pine. 269,694; Apr. 15.
Saccharin. Saccharin-Fabrik Aktiengesellschaft, vorm. Fahlberg, List & Co. 75,972; renewed Nov. 30, 1929.
Salt. Union Salt Company. 269,715; Apr. 15; Serial No. 292,841; published Jan. 28, 1930.
Spray for livestock. Fly. Shores-Mueller Company. 269,620; Apr. 15; Serial No. 290,224; published Jan. 28, 1930.
Suppositories. Schering & Glatz, Inc. 269,752; Apr. 15; Serial No. 115,382; published June 4, 1929.
Toilet articles, Certain. Baldwin Perfumery Co. 79,318; renewed Aug. 30, 1930.
Toilet water. J. B. William Company. 79,318; renewed Aug. 23, 1930.
Tonic for the relief and correction of malnutrition, etc. Lewis Laboratories, Inc. 269,670; Apr. 15; Serial No. 293,375; published Jan. 28, 1930.
Tooth paste. Peoples Drug Stores, Inc. 269,667; Apr. 15; Serial No. 293,107; published Jan. 28, 1930.
Tooth paste and antiseptic lozenges. Sharp & Dohme, Incorporated. 269,664; Apr. 15; Serial No. 293,298; published Jan. 28, 1930.

CLASS 9

Matches. Pullenlite Company. 269,621; Apr. 15; Serial No. 290,323; published Feb. 4, 1930.
Matches. Vulcan Match Co. 269,672; Apr. 15; Serial No. 293,497; published Feb. 4, 1930.

CLASS 11

Carbon paper. Niagara Fold, Inc. 269,611; Apr. 15; Serial No. 274,476; published Feb. 4, 1930.
Typewriter ribbons and carbon paper. J. A. Farkas. 269,680; Apr. 15; Serial No. 293,621; published Feb. 4, 1930.

CLASS 12

Cement. Pilbrico Jointless Firebrick Company. 269,699; Apr. 15; Serial No. 293,069; published Feb. 4, 1930.
Cement. Utica Hydraulic Cement Company. 269,615; Apr. 15; Serial No. 272,867; published Feb. 4, 1930.
Composition for use in sealing fissures. A. J. Rainey. 269,742; Apr. 15; Serial No. 292,683; published Feb. 4, 1930.
Concrete building blocks. American Concrete Units Co. 269,779; Apr. 15.
Padding or bat for use as a building material. Upson Company. 269,701; Apr. 15; Serial No. 293,165; published Feb. 4, 1930.
Partitions, rails, and panelling. F. B. Wheat. 269,781; Apr. 15.
Roofing sheets, Bituminous waterproof. Barber Asphalt Paving Company. 78,566; renewed June 28, 1930.
Roofing, Smooth-surface and slate-surfaces composition. Central Paint & Roofing Company. 269,748; Apr. 15; Serial No. 269,714; published Dec. 11, 1928.
Tiles. Mosaic Tile Company. 269,788; Apr. 15.
Waterproofing preparation. Anti-Hydro Waterproofing Company. 269,695; Apr. 15; Serial No. 293,022; published Feb. 4, 1930.
Waterproofing preparation. Anti-Hydro Waterproofing Company. 269,698; Apr. 15; Serial No. 293,021; published Feb. 4, 1930.

CLASS 13

Aluminum ware. Aluminum Goods Manufacturing Co. 269,818; Apr. 15.
Chains and their parts, Transmission. Soc. Anon. Officine di Villar Perosa. 269,724; Apr. 15; Serial No. 290,978; published Feb. 4, 1930.
Closet bowls and combinations. Kohler Company. 269,815–18; Apr. 15.
Damper regulators, valves, pump regulators, etc. Locke Regulator Company. 269,757; Apr. 15; Serial No. 283,406; published Feb. 4, 1930.
Door closers. Everedy Company. 269,806; Apr. 15.
Drains, Safety. F. Pekarek. 269,704; Apr. 15; Serial No. 293,233; published Feb. 4, 1930.
Funnels. Dover Stamping and Manufacturing Company. 79,110; renewed Aug. 9, 1930.
Grille, Screen-door. Everedy Company. 269,765; Apr. 15.
Hinges, Wrought-steel butt. Stanley Works. 79,236; renewed Aug. 16, 1930.
Holders for brooms, mops, rakes, and the like. Colson Company. 269,584; Apr. 15; Serial No. 286,625; published Feb. 4, 1930.
Holders, Hat. E. Au Werter. 269,738; Apr. 15; Serial No. 292,388; published Feb. 4, 1930.
Ladles, Ice-cream. W. Ross. 79,370–1; renewed Aug. 30, 1930.
Nuts and lock washers, Lock. International Safety Lock Nut Corporation. 269,740; Apr. 15; Serial No. 292,631; published Feb. 4, 1930.
Plates, Metal name. Gustave Fox Company. 269,735; Apr. 15; Serial No. 292,205; published Feb. 4, 1930.
Posts, Metal fence. Missouri Rolling Mill Corporation. 269,784; Apr. 15; Serial No. 291,997; published Feb. 4, 1930.
Pottery. Kohler Company. 269,640; Apr. 15; Serial No. 293,374; published Feb. 4, 1930.
Regulators, reducers, and gasifiers, Combined pressure. S. S. Thomas. 269,627; Apr. 15; Serial No. 285,051; published Feb. 4, 1930.
Screens and screen doors, Window. St. Louis Screen Company. 269,812; Apr. 15.

CLASS 14

Lead, solder, zinc, etc. Morris P. Kirk & Son, Inc. 269,767; Apr. 15.

CLASS 15

Grease. F. Burgmann. 77,449; renewed Apr. 12, 1930.
Lubricant. Joseph Dixon Crucible Company. 34,754; renewed June 5, 1930.
Lubricant, Fluid. Enterprise Oil Company. 269,784; Apr. 15.

CLASS 16

Coatings, Decorative. A. K. Fleming. 269,616; Apr. 15; Serial No. 282,985; published Oct. 1, 1929.
Paints, varnishes, oils, etc. Longman & Martinez. 79,434; renewed Sept. 6, 1930.
Paints, varnishes, stains, and finishes. W. H. Rogers. 76,892; renewed Feb. 22, 1930.
Zinc oxide, litharge, and red lead. Morris P. Kirk & Son, Inc. 269,760; Apr. 15.

CLASS 17

Cigars. Cifuentes, Pego y Compañia. 269,633; Apr. 15; Serial No. 292,026; published Feb. 4, 1930.
Cigars. G. H. Thompson. 269,604; Apr. 15; Serial No. 279,198; published Feb. 4, 1930.

CLASS 19

Aeroplanes and structural parts thereof. Aeronautical Corporation of America. 269,603; Apr. 15; Serial No. 279,636; published Feb. 4, 1930.
Automobile seat and upholstery covers. Benj. T. Crump Company. 269,741; Apr. 15; Serial No. 292,658; published Feb. 4, 1930.
Brakes and parts thereof and brake-operating mechanisms and parts thereof. American Cable Company. 269,605; Apr. 15; Serial No. 279,019; published Feb. 4, 1930.

CLASS 20

Oilcloth and oilcloth table covers. Standard Textile Products Company. 269,778; Apr. 15.
Rugs and floor coverings. Congoleum-Nairn Inc. 269,684–6; Apr. 15; Serial Nos. 293,659–61; published Feb. 4, 1930.

CLASS 21

Audio frequency amplifiers and transformers, choke coils, etc. Webster Electric Company. 269,791; Apr. 15.
Batteries and their parts, Storage. Perrine Quality Products Corporation. 269,766; Apr. 15.
Batteries, Electrical. C. Bodan. 269,799; Apr. 15.
Electric pick-up devices. L. Baxter. 269,800; Apr. 15.
Electric switches. Willys-Overland Company. 269,804; Apr. 15.
Electric vacuum cleaners and parts thereof. Electric Vacuum Cleaner Company. 269,774; Apr. 15.
Electrical device for filters for use in connection with radio receiving apparatus. Trutone Radio Sales Company. 269,776; Apr. 15.
Light-sensitive cells. Radiovision Corporation. 269,789; Apr. 15.
Neon and other luminescent tubes, electrodes, etc. Neon Tube Manufacturing Co. Inc. 269,798; Apr. 15.

CLASS 22

Hardware. Certain articles of. Simmons Hardware Company. 34,554–6; renewed Apr. 24, 1930.

CLASS 23

Hoists, Hydraulic. Western Elevator & Mfg. Co. 269,654; Apr. 15; Serial No. 293,760; published Feb. 4, 1930.
Metallic grinding bodies. F. L. Smith & Co. 78,651; renewed June 28, 1930.
Mine-equipment goods. Mining Safety Device Co. 269,814; Apr. 15.
Pumps, Oil-measuring. Milwaukee Tank Works, Inc. 269,723; Apr. 15; Serial No. 291,629; published Feb. 4, 1930.
Sharpening devices. Honex Corporation of America. 269,588; Apr. 15; Serial No. 288,236; published Feb. 4, 1930.
Weeders, plows, cultivators, and harrows. C. L. Key. 269,722; Apr. 15; Serial No. 290,216; published Feb. 4, 1930.

CLASS 24

Washing machines, Clothes-. Kohler Company. 269,639; Apr. 15; Serial No. 293,372; published Feb. 4, 1930.

CLASS 25

Depositories for banks, Night. O. B. McClintock Company. 269,782; Apr. 15.

CLASS 26

Accounting machines, adding typewriters, etc. Ellis Adding-Typewriter Company. 269,785; Apr. 15.
Light and sound effects, Synchronized unitary apparatus for the reproduction of. North American Sound & Talking Picture Equipment Corporation. 269,726; Apr. 15; Serial No. 291,470; published Feb. 4, 1930.
Optical outfit. W. J. Cameron. 269,768; Apr. 15.
Photographic apparatus, barometers, telescopes, etc. Zeiss Ikon Aktiengesellschaft. 269,797; Apr. 15.
Thermostats. Lakeside Manufacturing Company. 269,721; Apr. 15; Serial No. 290,073; published Feb. 4, 1930.

CLASS 27

Clockworks, watchcases, and clock and watch dial plates. Vereinigte Uhrenfabriken von Gebrüder Junghans und Thomas Haller A.-G. 77,347; renewed Mar. 29, 1930.
Watchcases. Illinois Watch Case Company. 78,974; renewed July 26, 1930.
Watchcases and watch movements. Illinois Watch Case Co. 77,052; renewed Mar. 8, 1930.

CLASS 28

Silver-plated ware. Wm. A. Rogers, Limited. 78,642; renewed June 28, 1930.
Watch bracelets, straps, and attachments, scarfpins, etc. Gemex Company. 269,777; Apr. 15.

CLASS 29

Brushes. Alfred H. Smith Co. 78,210; renewed May 31, 1930.
Kits, Shoe-shining. 2 in 1-Shinola-Bixby Corporation. 269,635; Apr. 15; Serial No. 292,186; published Feb. 4, 1930.
Powder puffs. Jeanette Powder Puffs, Inc. 269,676; Apr. 15; Serial No. 293,586; published Feb. 4, 1930.

CLASS 30

Crockery, earthenware, and porcelain. Schumann China Corporation. 269,592; Apr. 15; Serial No. 289,905; published Feb. 4, 1930.
Dinner ware, Semiporcelain. Sears, Roebuck and Co. 269,688; Apr. 15; Serial No. 293,695; published Feb. 4, 1930.
Pottery, chinaware, stoneware, etc. Salem Pottery Company. 269,691; Apr. 15; Serial No. 293,986; published Feb. 4, 1930.

CLASS 32

Mirrors, cabinets, dressers, etc. F. H. Lawson Company. 269,787; Apr. 15.

CLASS 33

Crystals, Watch. Charles V. Walter, Inc. 269,626; Apr. 15; Serial No. 291,595; published Feb. 4, 1930.
Crystals, Watch. Charles V. Walter, Inc. 269,628; Apr. 15; Serial No. 291,596; published Feb. 4, 1930.

CLASS 34

Blowers for coal-burning systems. E. P. Bliss, jr. 269,600; Apr. 15; Serial No. 281,809; published Feb. 4, 1930.
Burners and coal-feeding attachments therefor, Coal. Modern Coal Burner Company. 269,807; Apr. 15.
Burners for gas appliances. J. A. Beck. 269,749; Apr. 15; Serial No. 267,293; published Feb. 4, 1930.
Deflectors for gas stoves. Monarch Products Company. 269,743; Apr. 15; Serial No. 292,887; published Feb. 4, 1930.
Heaters. R. J. Gaselle. 269,745; Apr. 15; Serial No. 270,838; published Feb. 4, 1930.
Incinerators and water heaters, Combined. Duo-Tor Mfg. Co. 269,708; Apr. 15; Serial No. 293,213; published Feb. 4, 1930.
Lamp bases and shades. Patterson Studios, Inc. 269,617; Apr. 15; Serial No. 284,197; published Feb. 4, 1930.
Lamps and lanterns, mantles therefor, and parts thereof. A. J. Lindemann & Hoverson Company. 269,727; Apr. 15; Serial No. 291,516; published Feb. 4, 1930.
Radiators, Heating. Rome Brass Radiator Corporation. 269,610; Apr. 15; Serial No. 275,400; published Feb. 4, 1930.
Radiators, Heating. Rome Brass Radiator Corporation. 269,750; Apr. 15; Serial No. 257,442; published Feb. 4, 1930.
Stoves and ranges, Cooking and heating. A. J. Lindemann & Hoverson Company. 79,288; renewed Aug. 23, 1930.

CLASS 35

Belting, Leather. Holyoke Belting Company. 269,723; Apr. 15; Serial No. 290,574; published Feb. 4, 1930.
Piston rings. Hastings Manufacturing Co. 269,792–4; Apr. 15.
Piston rings, piston-ring expanders, etc. R. G. Zeledon. 269,750; Apr. 15.
Rubber and fabric belting, rubber hose, piston packing. Pioneer Rubber Mills. 269,651; Apr. 15; Serial No. 293,594; published Feb. 4, 1930.
Tires and inner tubes therefor, tire and tube repair outfits, etc., Pneumatic. Goodyear Tire & Rubber Company. 269,650; Apr. 15; Serial No. 293,529; published Feb. 4, 1930.

CLASS 36

Band and orchestra instruments and supplies. Leedy Manufacturing Co. Inc. 269,805; Apr. 15.
Pianos. M. P. Johnson Piano Co. 269,762; Apr. 15.

CLASS 37

Paper. Port Huron Sulphite & Paper Co. 269,809; Apr. 15.
Paper, envelopes, and papeteries. American Paper Exports, Inc. 269,801; Apr. 15.

Paper, envelops, tablets, and blank books. J. C. Blair Company. 78,675; renewed July 5, 1930.
Paper in rolls, Advertising toilet. W. H. Appleby. 269,808; Apr. 15.
Paper, Wrapping. Crown-Columbia Pulp and Paper Co. 79,191; renewed Aug. 16, 1930.

CLASS 39

Blouses and shirts. Sonny Blouse Company. 269,668; Apr. 15; Serial No. 293,077; published Feb. 4, 1930.
Blouses, shirts, and pajamas. Penrod Blouse Co. 269,711; Apr. 15; Serial No. 292,595; published Feb. 4, 1930.
Boots and shoes. Joseph Strasburger Co. 72,405; renewed Jan. 26, 1929.
Breeches, Men's. Bedford Johnson Co. 269,622; Apr. 15; Serial No. 290,879; published Feb. 4, 1930.
Clothing. Porter Clothing Co. 269,758; Apr. 15; Serial No. 284,276; published Feb. 4, 1930.
Clothing and gents' furnishings, Men's. Ph. Weinberg & Sons. 269,624; Apr. 15; Serial No. 291,874; published Feb. 4, 1930.
Clothing, Waterproof oiled. H. M. Sawyer & Son Incorporated. 269,625; Apr. 15; Serial No. 291,415; published Feb. 4, 1930.
Coats for women. Consolidated Dry Goods Co. 269,632; Apr. 15; Serial No. 291,867; published Feb. 4, 1930.
Cravats. Cheney Brothers. 269,736; Apr. 15.
Cravats. H. & M. Neckwear Co. 269,775; Apr. 15.
Dresses, coats, suits, and skirts. M. Seaman. 269,619; Apr. 15; Serial No. 290,035; published Feb. 4, 1930.
Gloves. Julius Kayser & Company. 77,596; renewed Apr. 19, 1930.
Hats, Felt. Mossant, Vallon & Argod. 79,440; renewed Sept. 6, 1930.
Heels for shoes, Wood. United Shoe Machinery Corporation. 269,712; Apr. 15; Serial No. 292,642; published Jan. 28, 1930.
Hosiery, Girls'. J. L. Hudson Company. 269,636; Apr. 15; Serial No. 292,209; published Feb. 4, 1930.
Socks. Pilot Hosiery Mills, Incorporated. 269,630; Apr. 15; Serial No. 291,840; published Feb. 4, 1930.
Socks. L. S. Williams. 269,591; Apr. 15; Serial No. 289,863; published Feb. 4, 1930.
Suits. Keller Heumann & Thompson Company. 269,589; Apr. 15; Serial No. 288,501; published Feb. 4, 1930.
Suits and coats, Dress. E. Weissberger. 269,597; Apr. 15; Serial No. 292,563; published Feb. 4, 1930.
Suits, shirts, and blouses. Bailey Co. 269,769; Apr. 15.
Suits, spring coats, and overcoats. Zucker Clothing Co. 269,577; Apr. 15; Serial No. 285,131; published Feb. 4, 1930.
Trousers, Work. Bedford Johnson Co. 269,623; Apr. 15; Serial No. 290,861; published Feb. 4, 1930.
Underwear, union suits, shirts, etc. Neustadter Bros. 269,770; Apr. 15.

CLASS 42

Carpets and stair carpets of textiles. L. Koch. 269,582; Apr. 15; Serial No. 286,182; published Feb. 4, 1930.
Cloth and lining fabrics in the piece, Press. R. Rucher. 269,682; Apr. 15; Serial No. 293,640; published Feb. 4, 1930.
Cotton goods in the piece and cotton and silk goods in the piece and artificial-silk goods in the piece. Rossman Brothers & Messner, Inc. 269,717; Apr. 15; Serial No. 292,904; published Feb. 4, 1930.
Cotton piece goods. Bliss, Fabyan & Company. 78,575; renewed June 28, 1930.
Cotton piece goods. Mannheimer Bros. 76,887; renewed Feb. 22, 1930.
Cotton piece goods. Tilton & Keeler Inc. 269,700; Apr. 15; Serial No. 293,117; published Feb. 4, 1930.
Rugs, Seamless. Artloom Corporation, Artloom Rug Mills Division. 269,689; Apr. 15; Serial No. 293,711; published Feb. 4, 1930.
Rugs, Woven and textile. J. A. Ryan. 269,705–6; Apr. 15; Serial Nos. 293,236–7; published Feb. 4, 1930.
Silk and artificial-silk goods in the piece and mixtures of the same. Frank & Cohen Silk Corporation. 269,709; Apr. 15; Serial No. 293,317; published Feb. 4, 1930.
Silk and rayon and mixtures thereof, Piece goods of. Duplan Silk Corporation. 269,710; Apr. 15; Serial No. 293,315; published Feb. 4, 1930.
Silk, cotton, and rayon and mixtures of same, Piece goods made of. Loeffler, Anhalt Co. Inc. 269,690; Apr. 15; Serial No. 293,782; published Feb. 4, 1930.
Silk, cotton and wool, Piece goods made of. Haas Brothers Fabrics Corporation. 269,682; Apr. 15; Serial No. 294,070; published Feb. 4, 1930.
Silk, Radium. Goshen Shirt Manufacturing Company. 269,618; Apr. 15; Serial No. 290,022; published Feb. 4, 1930.
Velveteen. L. & E. Stirn. 269,693; Apr. 15; Serial No. 294,094; published Feb. 4, 1930.
Woolen piece goods. Forstmann & Huffmann Company. 269,644; Apr. 15; Serial No. 293,541; published Feb. 4, 1930.
Woolen piece goods. Forstmann & Huffmann Company. 269,647; Apr. 15; Serial No. 293,542; published Feb. 4, 1930.
Woolen piece goods. Forstmann & Huffmann Company. 269,648–50; Apr. 15; Serial Nos. 293,547–9; published Feb. 4, 1930.
Woolen piece goods. Forstmann & Huffmann Company. 269,672–4; Apr. 15; Serial Nos. 293,553–4; published Feb. 4, 1930.
Woolen suiting in the piece. M. M. Scher. 269,637; Apr. 15; Serial No. 292,341; published Feb. 4, 1930.

CLASS 45

Beverage, Maltless. W. M. Irvin. 269,702; Apr. 15; Serial No. 293,182; published Feb. 4, 1930.
Beverages and syrups for making the same, Maltless. C. L. Kelsey. 269,732; Apr. 15; Serial No. 291,883; published Feb. 4, 1930.
Beverages, Maltless. Feigenson Bros. Co. 269,661; Apr. 15; Serial No. 293,874; published Feb. 4, 1930.
Cider and pure apple juice and maltless beverages and syrups for making the same. Laird & Company. 269,790; Apr. 15.
Concentrates, compounds, syrups, and beverages. Orange-Crush Company. 269,756; Apr. 15; Serial No. 292,282; published Feb. 4, 1930.
Flavoring extracts and concentrated syrups. J. F. Lasier Manufacturing Co. 269,655; Apr. 15; Serial No. 293,780; published Feb. 4, 1930.
Flavoring extracts for maltless beverages. M. Paul. 269,788; Apr. 15.
Water and maltless beverages, Distilled. U. J. Hedrich. 269,744; Apr. 15; Serial No. 292,991; published Feb. 4, 1930.
Waters, Mineral. Spa Monopole Cie. Fermière des Eaux et des Bains de Spa Société Anonyme. 269,737; Apr. 15; Serial No. 292,289; published Feb. 4, 1930.

CLASS 46

Bacon. Fred. Eckart Packing Company. 77,128; renewed Mar. 15, 1930.
Bakery products and confectionery. Purity Candy Company. 34,716; renewed May 29, 1930.
Birdseed. L. Haller. 269,608; Apr. 15; Serial No. 277,588; published Jan. 28, 1930.
Bread and rolls. National Baking Co. 269,714; Apr. 15; Serial No. 292,744; published Jan. 28, 1930.
Bread sticks. A. Angonese, Inc. 269,594; Apr. 15; Serial No. 292,386; published Jan. 28, 1930.
Butter. E. Pattison. 77,137; renewed Mar. 15, 1930.
Cake. Bon Ton Cake Company. 269,614; Apr. 15; Serial No. 273,180; published Feb. 4, 1930.
Cake. Schulze Baking Company. 269,653; Apr. 15; Serial No. 293,750; published Feb. 4, 1930.
Cakes and confections, Cake improver for. John Renshaw, Inc. 269,656; Apr. 15; Serial No. 293,791; published Feb. 4, 1930.
Cakes, candies, and confections, Filling and topping for. John Renshaw, Inc. 269,657; Apr. 15; Serial No. 293,790; published Feb. 4, 1930.
Candy. Sheet Chocolate Company. 269,641; Apr. 15; Serial No. 293,333; published Feb. 4, 1930.
Candy. Leggett Sales Co. 269,802; Apr. 15.
Canned fruit. California Fruit Canners Association. 77,223; renewed Mar. 22, 1930.
Canned fruit salad, canned vegetables. United States Products Corporation. 269,613; Apr. 15; Serial No. 273,616; published Feb. 4, 1930.
Canned fruits. California Fruit Canners Association. 77,173; renewed Mar. 15, 1930.
Canned fruits and canned vegetables. Hudson & Co. 79,282; renewed Aug. 23, 1930.
Canned fruits and vegetables. California Fruit Canners Association. 77,085–6; renewed Mar. 8, 1930.
Canned fruits and vegetables. California Fruit Canners Association. 77,291; renewed Mar. 29, 1930.
Canned meats and canned meat products. International Products Corporation. 269,638; Apr. 15; Serial No. 293,324; published Feb. 4, 1930.
Canned olives. Corning Olive Company. 269,778; Apr. 15.
Canned salmon. Deming & Gould Co. 79,326; renewed Aug. 30, 1930.
Canned salmon. William Hills, Jr. & Co. 269,772; Apr. 15.
Canned sandwich beans, spaghetti red, tamales, etc. Rutherford Chile Co. 269,733; Apr. 15; Serial No. 291,934; published Feb. 4, 1930.
Canned tomatoes, peas, corn, etc. Wabash Canning Company. 77,243; renewed Mar. 29, 1930.
Canned vegetables and dried fruits. California Fruit Canners Association. 77,171; renewed Mar. 15, 1930.
Cantaloupes and watermelons, Fresh. F. W. Richardson & Son. 269,729; Apr. 15; Serial No. 291,636; published Feb. 4, 1930.
Cereal and cereal products. Always-A-Head Mills, Inc. 269,579; Apr. 15; Serial No. 285,701; published Jan. 28, 1930.
Crackers. Paul Schulze Biscuit Company. 269,811; Apr. 15.
Custard, Frozen. E. D. Kohr. 269,803; Apr. 15.
Diabetic ingredients and food products. Diabetic Food Company. 269,599; Apr. 15; Serial No. 282,345; published Feb. 4, 1930.
Dressing, mayonnaise, pecan salad, etc., Thousand Island salad. Olleans Salad Kitchen. 269,666; Apr. 15; Serial No. 293,284; published Feb. 4, 1930.
Eggs and egg products. Amos Bird Co. 269,665; Apr. 15; Serial No. 293,362; published Feb. 4, 1930.

Eggs, baby chicks, and live poultry. L. B. Holsinger. 269,755; Apr. 15; Serial No. 275,618; published Feb. 4, 1930.
Extract of tamarind. C. Erba. 76,787–8; renewed Feb. 15, 1930.
Feed, Stock and poultry. General Mills, Inc. 269,585; Apr. 15; Serial No. 287,133; published Jan. 28, 1930.
Flour. Campbell Holton & Co. 269,609; Apr. 15; Serial No. 276,525; published Jan. 28, 1930.
Flour, Cake. Reliable Flour Company. 269,725; Apr. 15; Serial No. 291,292; published Feb. 4, 1930.
Flour, Wheat. C. L. De Bord. 269,708; Apr. 15; Serial No. 293,313; published Jan. 28, 1930.
Flour, Wheat. Davis Milling Company. 78,869; renewed July 19, 1930.
Flour, Wheat. Davis Milling Company. 79,039; renewed July 19, 1930.
Flour, Wheat. C. A. Gambrill Manufacturing Company. 76,782; renewed Feb. 15, 1930.
Flour, Wheat. C. A. Gambrill Manufacturing Company. 76,901; renewed Feb. 22, 1930.
Flour, Wheat. C. A. Gambrill Manufacturing Company. 77,123; renewed Mar. 15, 1930.
Flour, Wheat. Maney Milling Company. 269,645–6; Apr 15; Serial Nos. 293,477–8; published Jan. 28, 1930.
Flour, Wheat. Wall Rozalsky Milling Company. 269,679; Apr. 15; Serial No. 293,610; published Jan. 28, 1930.
Food for children, adults, etc. R. Kufeke. 77,653; renewed Apr. 26, 1930.
Foods, Prepared. Zucca's Restaurant, Inc. 269,642; Apr. 15; Serial No. 293,395; published Feb. 4, 1930.
Fruits, Fresh citrus. Holly Hill Fruit Products, Inc. 269,586; Apr. 15; Serial No. 287,474; published Feb. 4, 1930.
Fruits, Fresh deciduous. Big 7 Fruit Distributors, Inc. 269,662; Apr. 15; Serial No. 293,915; published Feb. 4, 1930.
Haddock, Smoked shore. Freeman & Cobb Co. 78,505; renewed June 21, 1930.
Ice cream. J. D. Reed. 269,593; Apr. 15; Serial No. 289,941; published Feb. 4, 1930.
Lard. Swift and Company. 269,663; Apr. 15; Serial No. 294,031; published Feb. 4, 1930.
Mayonnaise, dressing, peanut butter, etc. Hill Food Products Company. 269,761; Apr. 15.
Milk, Evaporated. John F. Jelke Company. 269,696; Apr. 15; Serial No. 293,050; published Feb. 4, 1930.
Oats and oat flakes and cereal breakfast food, Rolled. Purity Oats Company. 269,716; Apr. 15; Serial No. 292,901; published Jan. 28, 1930.
Oats and oatmeal, Rolled. F. B. Chamberlain Company. 78,038; renewed May 24, 1930.
Oysters. Rock Point Oyster Co. 269,739; Apr. 15; Serial No. 292,554; published Jan. 28, 1930.
Popping corn. American Pop Corn Company. 269,598; Apr. 15; Serial No. 292,571; published Feb. 4, 1930.
Potato chips. Best & Hobbs. 269,660; Apr. 15; Serial No. 293,865; published Feb. 4, 1930.
Poultry and stock feeds. Wilkins-Rogers Milling Company. 269,707; Apr. 15; Serial No. 293,503; published Feb. 4, 1930.
Puddings. Angus Watson & Co. (America) Limited. 269,652; Apr. 15; Serial No. 293,702; published Feb. 4, 1930.
Ravioli, mushroom sauce. Superba Packing Co. 269,658; Apr. 15; Serial No. 293,801; published Feb. 4, 1930.
Salad dressings. Meadow Gold Salad Dressings Co. 269,676; Apr. 15; Serial No. 293,589; published Feb. 4, 1930.
Syrups, Malt. Bristol Gustafson Brokerage Co. 269,578; Apr. 15; Serial No. 285,656; published Feb. 4, 1930.
Syrups, Malt. Bristol Gustafson Brokerage Co. 269,590; Apr. 15; Serial No. 289,097; published Feb. 4, 1930.
Teas, Mixed. S. Zechnowitz. 84,870; renewed July 10, 1930.
Tomato juice. F. A. Mennillo. 269,671; Apr. 15; Serial No. 293,437; published Feb. 4, 1930.
Wafers, Baked. W. C. Baker. 269,780; Apr. 15.

CLASS 48

Ale, beer, porter, and stout. T. B. Hall & Co. Ltd. 77,846; renewed May 10, 1930.
Malt compound. Vino Sano Co. 269,792; Apr. 15.

CLASS 49

Alcoholic beverages. M. B. Foster & Sons, Limited. 78,040; renewed May 24, 1930.

ALPHABETICAL LIST OF LABELS

Auto Polish. For Polish for Automobile and Furniture. Lake Woods Auto Polish Co. 37,337; Apr. 15.
Clearskin. For Face Cream. B. B. Goldenberg. 37,336; Apr. 15.
Climalene. For a Preparation Used as a Cleanser, Water Softener, and Soap Saver. Climalene Company. 37,330; Apr. 15.
Dixo. For Cleaning Fluid. Dixo Company. 37,333; Apr. 15.
Duffyets. For Confection. J. A. Duffy. 37,334; Apr. 15.
Evenol. For Oils. E. Vellner. 37,347; Apr. 15.
Fireside Biscuits. For Biscuits. Gardner Baking Co. 37,335; Apr. 15.
Genuine Grain Deer Gloves. For Gloves. J. H. Schneider. 37,343; Apr. 15.
Hairlene. For a Preparation for the Hair and Scalp. C. Shepard. 37,345; Apr. 15.
Ice Cream. For Ice Cream. Menasha Products Co. 37,338; Apr. 15.
Lamp. For Tomatoes. Mercedes Co-Operative Association. 37,339; Apr. 15.
Pompano Brand Florida Peppers. For Peppers. Pompano Vegetable Growers, Inc. 37,342; Apr. 15.
Pompano Brand Florida Tomatoes. For Tomatoes. Pompano Vegetable Growers, Inc. 37,341; Apr. 15.
Powdo Orange Juice Compound. For Orange-Juice Compound. Scientific Foods Corporation. 37,344; Apr. 15.
Radio. For Talking-Machine Records. Cameo Record Corporation. 37,329; Apr. 15.
Shrunk-Proof. For Caps. Perlman Brothers. 37,340; Apr. 15.
Smooth to the Last Inch. For Gauze Bandages. Deane Plaster Co. 37,332; Apr. 15.
Snow Crush. For Sacks of Flour. Van Brocklin Bros. 37,346; Apr. 15.
The Number. For Candy. E. Davidson. 37,331; Apr. 15.

ALPHABETICAL LIST OF PRINTS

Announcing—A New Help in Solving the Housewives Problems. For Heins 57 Varieties. H. J. Heins Company. 12,479; Apr. 15.
Applesauce. For Candy Bars. W. W. Shaw. 12,482; Apr. 15.
Darn Quick Saves Hose 'Darn Quick.' For Mending Preparation for Hosiery. C. Dutton. 12,478; Apr. 15.
Kramo Caps. For Bottle Caps. Kramo Manufacturing Corporation. 12,480; Apr. 15.
Ostermoor. For Mattresses. Ostermoor & Co. Inc. 12,481; Apr. 15.
Round Red Cheeks and Bright Blue Eyes for Little Charles Van Bensselaer, III. For Wheat Breakfast Food. Cream of Wheat Corporation. 12,477; Apr. 15.
The Mark of a Skilled Rebuilder. For Soles and Heels. United States Rubber Company. 12,483; Apr. 15.
The Wallet Inaugurates a New Era in Cigarette Container History. For Cigarette Containers. C & H Products Co. 12,476; Apr. 15.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A. G. Prior Patentverwertungs-Gesellschaft. (See Ruegsegger, Walter, assignor.)
Abbott Laboratories. (See Vliet, E. B., and Volwiler, assignors.)
Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo. Enhancing the flow of oils through pipe lines. 1,754,296; Apr. 15.
Ackerman, Albert H., Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo. Treating fuel oils. 1,754,297; Apr. 15.
Adams, Alfred A., Brooklyn, N. Y. Carrying case. 1,754,663; Apr. 15.
Addressograph Company. (See Hubbard, Henry E., assignor.)
Adlake Company, The. (See Hamm, William S., assignor.)
Adlake Company, The. (See Keller, Walter E., assignor.)
Aetna Rubber Company, The. (See Jefferys, Frederick R., assignor.)
Aikman, Burton S., Milwaukee, Wis., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor-unloader governor. 1,754,218; Apr. 15.
Ainscow, Joseph W. H., Lindfield, near Sydney, New South Wales, Australia. Supporting means for liquid-fuel burners. 1,755,090; Apr. 15.
Aktiengesellschaft Brown, Boveri and Cie. (See Brühlmann, Gottfried, assignor.)
Albertus, Carl R., San Leandro, assignor to The Magnavox Company, Oakland, Calif. Loud-speaker. 1,754,928; Apr. 15.
Alemite Die Casting & Mfg. Co. (See Gullborg, John S., assignor.)
Alexander, Charles D., Omaha, Nebr. Wall-papering implement. 1,754,219; Apr. 15.
Alexander, Louis A., Toledo, Ohio. Laminated timer insulation. 1,754,493; Apr. 15.
Alfred, Frank H. (See Chipman, Paul, assignor.)
Allardice, Thomas B. (See Flifet, T., and Allardice.)
Allbright-Nell Company. (See Kohlhepp, John W., assignor.)
Allen, Elmer L., Queens Village, N. Y. Portable house. 1,754,590; Apr. 15.
Allen, Hugh E., Schenectady, N. Y., assignor to General Electric Company. High-frequency receiving system. 1,755,091; Apr. 15.
Allen, Robert, et al. (See Bouillon, Emile, assignor.)
Allen, Walter P., Jersey City, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,754,734; Apr. 15.
Allwill, Stephen S., assignor to R. L. Gray, Washington, D. C. Variable-compression internal-combustion engine. 1,754,410; Apr. 15.
Allyne, Edmund E. (See Schickler, Albert C., assignor.)
Almind, Hans, New York, N. Y. Mortise-cutting device. 1,754,925; Apr. 15.
Aloi, Millio F., Huntington Park, assignor to J. Grant, Los Angeles, Calif. Fishing tool. 1,754,344; Apr. 15.
Alseth, Stengrim, and V. L. Neal, Lewiston, Idaho; said Alseth assignor of one-fourth to C. C. Miles, Clarkston, Wash., and one-eighth to R. Strom, Oakland, Calif. Combined antenna selector and safety switch. 1,755,643; Apr. 15.
Altorfer, Alpheus W., Peoria, Ill. Centrifugal drier. 1,754,252; Apr. 15.
American Brake Shoe & Foundry Company, The. (See Gleisner, Michael W., assignor.)
American Brake Shoe & Foundry Company, The. (See Stewart, Robert S., assignor.)
American Brake Shoe & Foundry Company, The. (See Thompson, James S., assignor.)
American Button & Fastener Co. (See Latham, Albert, deceased, assignor.)
American Can Company. (See Erb, George C., assignor.)
American Can Company. (See Cadwallader, Converse B., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Johnson, Axel, assignor.)
American Can Company. (See Magill, Donald G., assignor.)
American Can Company. (See Nicholls, Henry M., assignor.)
American Can Company. (See Paynter, Horace J., assignor.)
American Can Company. (See Stollberg, Charles, assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American Can Company. (See Young, John M., assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Fork & Hoe Company, The. (See Cowdery, Robert H., assignor.)
American Fork & Hoe Company, The. (See Cowdery, R. H., and Grimes, assignors.)
American Fork & Hoe Company, The. (See Fifield, Albert F., assignor.)
American Hair & Felt Company. (See Wallin, Van A., assignor.)
American Laundry Machinery Company, The. (See Beattie, William P., assignor.)
American Laundry Machinery Company. (See Carroll, E. J., and Johnson, assignors.)
American Manganese Steel Company. (See Longenback, Edwin F., assignor.)
American Rubber Company. (See Holmberg, Albert W., assignor.)
American Steel and Wire Company of New Jersey, The. (See Earl, Allen W., assignor.)
American Telephone and Telegraph Company. (See Davidson J., jr., and Moody, assignors.)
American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)
American Telephone and Telegraph Company. (See Niles, E. W., and Edwards, assignors.)
American Telephone and Telegraph Company. (See Nyquist, H., and Brand, assignors.)
American Well Works, The. (See Fabrin, Axel O., assignor.)
Andersen, Georg, Oslo, Norway. Nonreturn valve. 1,754,975; Apr. 15.
Anderson, Andrew G., Wollaston, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Separable fastener unit. 1,755,157; Apr. 15.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Carl A. and J. C. Osborn, St. Joseph, Mich., assignors to Reliance Elevator Company, Chicago, Ill. Electric switch. 1,754,494; Apr. 15.
Anderson, Josephine. (See Anderson, Olaf A., assignor.)
Anderson, Olaf A., deceased; The Citizens Savings Bank & Trust Company, executor, assignor to J. Anderson, Hamilton, Ohio. Golf-ball holder. 1,754,495; Apr. 15.
Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Crossbar for automobile frames. 1,754,926; Apr. 15.
Andren, Birger T., assignor to A. O. Smith Corporation, Milwaukee, Wis. Automobile frame. 1,754,927; Apr. 15.
Andrews, Clifton C., Shaker Heights, Ohio. Loose-leaf binder. 1,754,664; Apr. 15.
Andrews, Neal R., assignor to Marinello Company, New York, N. Y. Jar or similar receptacle. Des. 80,983; Apr. 15.
Andrews, Roger W., Pittsburgh, assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,754,479; Apr. 15.
Anthony, Leon P., assignor of fifty per cent to M. A. Reynolds, Los Angeles, Calif. Steam-press-head construction. 1,754,665; Apr. 15.
Apco Mossberg Corporation. (See Storrie, William, assignor.)
Appel, Saul C., Medford, Mass. Combined anchor and pipe sleeve. 1,755,092; Apr. 15.
Appel, Saul C., Medford, Mass. Radiator bracket. 1,755,093; Apr. 15.
Appleton Electric Company. (See Brachtl, Henry, assignor.)
Applied Research, Inc. (See Di Lucci, Anthony, assignor.)
Armington, Arthur P., Willoughby, assignor to The Euclid Crane & Hoist Company, Euclid Village, Ohio. Wheeled scraper. 1,754,976; Apr. 15.
Aronson, Louis V., Newark, N. J. Toy gun. 1,755,142; Apr. 15.
Arrans, Lorenso, New York, N. Y. Platen-adjusting device. 1,755,143; Apr. 15.
Arrans, Lorenso, New York, N. Y. Massage device. 1,755,144; Apr. 15.
Art Fixtures, Inc. (See Hoffmann, Otto, assignor.)
Arthur, C. F., et al. (See Waite, Harry C., assignor.)
Arthur, J. P., et al. (See Waite, Harry C., assignor.)
Atlas Bolt & Screw Company, The. (See Schellentrager, Eugene W., assignor.)
Attlcks, Harry J., and J. G. Saltzman, New York, N. Y. Mounting of lamp housings. 1,754,929; Apr. 15.
August, Nathan, jr., Newark, N. J. Mixing-faucet fixture. 1,754,217; Apr. 15.
Autolux Sign Company. (See O'Brien, Norman B. M., assignor.)

Autolux Sign Company. (See Wise, William P., assignor.)
Automatic Washer Company. (See Ogg, Harry L., assignor.)
Avery, B. F., & Sons. (See Ray, C. T., and McDonald, assignors.)
Avery, Henry C., New Brunswick, N. J., assignor to The Flintkote Company, Boston, Mass. Flooring and the like and method of making. 1,754,253; Apr. 15.
Ayres, Ira H., New York, N. Y., and H. R. Pyne, Bernardsville, N. J. Condenser for internal-combustion engines. 1,754,298; Apr. 15.
Ayres, Ira H., New York, N. Y., and H. R. Pyne, Bernardsville, N. J. Condenser for internal-combustion engines. 1,754,299; Apr. 15.
Ayres, Ira H., New York, N. Y., and H. R. Pyne, Bernardsville, N. J. Steam cooling system for internal-combustion engines. 1,754,300; Apr. 15.
Ayres, Ira H., New York, N. Y., and H. R. Pyne, Bernardsville, N. J. Cooling system for internal-combustion engines. 1,754,301; Apr. 15.
B & D Mfg. Co. (See Hecht, Paul O., assignor.)
Babcock & Wilcox Company, The. (See Bunker, Horace E., assignor.)
Bachman, Chester A., Los Angeles, Calif. Lamp or similar article. Des. 80,934; Apr. 15.
Baker, Bertram B. (See Wilder, E. B., Baker, and Wilder.)
Baker, Guy B., Red Bluff, Calif. Citrus-fruit-juice extractor. 1,754,591; Apr. 15.
Baker, Thomas Y. and R. W. Cheshire, Teddington, assignors to Cooke, Troughton & Simms Limited, York, England. Theodolite and other angle-measuring instrument. 1,754,872; Apr. 15.
Baier, Ludwig S., Portland, Oreg. Material for building and other purposes. 1,754,707; Apr. 15.
Bailey, Banks & Biddle Company, The. (See Constabel, Arthur A., assignor.)
Bailey, Kenneth J., Great Falls, Mont. Device for expanding and mounting piston rings. 1,755,044; Apr. 15.
Bally, Thaddeus F., Alliance, and L. G. Fritz, Canton, Ohio; said Fritz assignor to said Bally. Slag-reducing process. 1,754,845; Apr. 15.
Balduf, Bruno E., assignor to The United States Gypsum Co., Chicago, Ill. Sound-insulating construction. 1,754,411; Apr. 15.
Balke, Clarence W., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Removing carbon impurities from tantalum. 1,754,453; Apr. 15.
Balz, Otto, Ludwigshafen-on-the-Rhine and F. Reuscher, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Catalytic oxidation of ammonia. 1,754,845; Apr. 15.
Bankers Development Corporation. (See Colvin, Harold B., assignor.)
Bany, Herman, and H. E. Lockett, Yeadon, Pa., assignor to General Electric Company. Automatic switching arrangement. 1,755,094; Apr. 15.
Baracate, Stephen, Troy, N. Y. Soldering tool. 1,754,382; Apr. 15.
Barbey, Francis A., Cambridge, Mass. Blower-nozzle protector for fire boxes. 1,754,813; Apr. 15.
Barker, Edwin H., Moylan, assignor to A. H. Wirz, Inc., Chester, Pa. Dispensing tube. 1,754,496; Apr. 15.
Barkey, Salvator, New York, N. Y. Straw-serving machine. 1,755,045; Apr. 15.
Barlow, Thomas J., Albany, Ohio. Guide clip for cutter bars. 1,754,302; Apr. 15.
Barnaby, James C., Westerleigh, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Internal-combustion engine. 1,754,735; Apr. 15.
Barnhart Brothers & Spindler. (See Zimmerman, John W., assignor.)
Barr, Harry D., assignor of forty-nine one hundredths to B. B. McClendon and L. L. Posey, Jackson, Miss. Blow-off or mud valve. 1,755,145; Apr. 15.
Barrett, Joseph M., Fostoria, assignor to The Swartwout Company, Cleveland, Ohio. Drainage control. 1,754,781; Apr. 15.
Barrett, Joseph M., Fostoria, assignor to The Swartwout Company, Cleveland, Ohio. Air-relief valve. 1,754,782; Apr. 15.
Bartholomew, Harry G. (See McFarlane, M. L. D., and Bartholomew.)
Baum, Isaac A., Chicago, Ill. Molding strip. 1,754,254; Apr. 15.
Bansman, Alonso L., Springfield, Mass. Feeding apparatus for confectionery machines. 1,754,846; Apr. 15.
Beall, Charles R., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,754,592; Apr. 15.
Bean, William G., and U. M. Cool, Burbank, Calif. Cutter head. 1,754,930; Apr. 15.
Beattie, William P., Norwood, assignor to The American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Electrically-operated pressing machine. 1,755,046; Apr. 15.
Becker, Edwin, Berlin-Hermsdorf, Germany. Manufacturing grinding and polishing disks. 1,755,158; Apr. 15.
Beers, Royce L., assignor to Detroit Stoker Company, Detroit, Mich. Underfeed stoker. 1,755,146; Apr. 15.
Behrendt, Frederick, Cleveland, Ohio. Vision attachment. 1,754,540; Apr. 15.
Belt, Thomas A. E., Schenectady, N. Y., assignor to General Electric Company. System of protection and control for electrical apparatus. 1,755,095; Apr. 15.
Bemis Industries, Incorporated. (See Raynes, Harry C., assignor.)
Bendix Brake Company. (See Truesdell, Fred A., assignor.)
Benford, Nat, Cleveland, Ohio. Automobile wheel. 1,754,598; Apr. 15.
Benjamin Electric Manufacturing Company. (See Hopkins, Charles L., assignor.)
Benjamin, Victor C. (See Prutzman, P. W., and Benjamin.)
Benoit, Margaret M., Chicago, Ill. Egg-case filler. 1,754,541; Apr. 15.
Bens, John H., North Attleboro, Mass. Serving dish. 1,754,594; Apr. 15.
Bergman, Axel G., New York, N. Y. Vertical-rising airplane. 1,754,977; Apr. 15.
Bergmans, Jan, and U. N. de Wit, Eindhoven, Netherlands, assignor to General Electric Company. Mounting for incandescent lamps. 1,755,096; Apr. 15.
Bernstein, Kurt J., assignor to Marschel Frank Sachs Aktiengesellschaft in Chemnitz, Chemnitz, Germany. Lady's breeches. 1,754,595; Apr. 15.
Beseh, Charles A., La Crosse, Wis. Register. 1,754,847; Apr. 15.
Bevins, Ira J., Chicago, Ill. Apparatus for cleaning automotive power plants. 1,754,708; Apr. 15.
Bidex Products Company. (See Pancoast, William G., assignor.)
Bigelow-Sanford Carpet Co. (See Cuaniff, Edward A., assignor.)
Bilham, Philip L., Balham, and J. W. Smith, Barons Court, assignors to J. Lyons and Company, Limited, London, England. Cooling cabinet for ice cream and similar substances. 1,755,147; Apr. 15.
Birdsboro Steel Foundry & Machine Company. (See Martin, Mark H., assignor.)
Bishop, Edward B., Haverhill, Mass. Stocking protector. 1,754,666; Apr. 15.
Blackhall, John R., Joliet, Ill. Step. 1,754,783; Apr. 15.
Blackman, J. B. (See Martin, William A., assignor.)
Blackwood, Guy R., assignor to Capital Lift and Manufacturing Company, Columbus, Ohio. Hoisting mechanism. 1,754,873; Apr. 15.
Blakeslee, Frank H., Cleveland, Ohio. Pneumatic shock absorber. 1,754,346; Apr. 15.
Blaw-Knox Company. (See Andrews, Roger W., assignor.)
Blaw-Knox Company. (See Boyrie, Harry E., assignor.)
Blaw-Knox Company. (See Menzin, Abraham L., assignor.)
Bliss, E. W., Company. (See Kruse, Peter, assignor.)
Blomgren, Henry E., Brooklyn, N. Y. Antirattle spring device. 1,754,347; Apr. 15.
Bodenstein, Jacob, Herkimer, N. Y. Typewriter desk. 1,754,303; Apr. 15.
Bodine, Alfred V., assignor to Dictaphone Corporation, Bridgeport, Conn. Phonograph stop. 1,754,454; Apr. 15.
Boeing Airplane Company. (See Johnson, Carl B., assignor.)
Bohnhardt, Charles F. H., Lynwood, assignor to J. A. Campbell, Long Beach, Calif. Tank-roof structure. 1,754,596; Apr. 15.
Bohnhardt, Charles F. H., Lynwood, assignor to J. A. Campbell, Long Beach, Calif. Oil-tank expansion joint. 1,754,597; Apr. 15.
Bollmann, Hermann, Hamburg, Germany. Bleaching fatty oils, mineral oils, and the like. 1,754,599; Apr. 15.
Bollmann, Hermann, Hamburg, Germany, assignor, by mesne assignments, to M. F. Foster, Washington, D. C. Deodorizing fats and fatty oils. 1,754,598; Apr. 15.
Bond, Joseph E., Appleton, Wis. Agitator. 1,754,255; Apr. 15.
Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)
Bonsieur, Le, assignor to The General Industries Company, Elyria, Ohio. Phonograph turntable. 1,754,416; Apr. 15.
Borden, Stephen W., Summit, N. J., assignor to Crouse-Hinds Company. Electrical connecting system. 1,754,600; Apr. 15.
Borden, Stephen W., Summit, N. J., assignor, by mesne assignments, to Crouse-Hinds Company. Electrical connecting device for electrical connecting systems. 1,754,601; Apr. 15.
Borsodi, Morris, Brooklyn, N. Y. Composite fiber board. 1,754,784; Apr. 15.
Bossert Corporation. (See Xardell, Charles A., assignor.)
Boucher, Wallace, Minneola, Kans. Grain drill. 1,754,497; Apr. 15.
Bouillon, Emile, Brussels, Belgium, assignor of one-third to W. G. Tarrant, Byfleet, Surrey, England, and one-third to R. Allen, Chiltern Rise, near Reading, England. Device for transforming a rectilinear movement into a continuous rotary movement. 1,754,216; Apr. 15.
Bouwers, Albert. (See Holst, G., Jones, and Bouwers.)
Boyce, Harrison H., Jericho, N. Y. Illumination and magnifying means for motor heat indicators. 1,754,456; Apr. 15.
Boyrie, Harry E., San Francisco, Calif., assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa. Fluid separator. 1,754,480; Apr. 15.
Brach, Leon S., East Orange, N. J. Combination connecter and lightning arrester. 1,754,709; Apr. 15.

Brachtl, Henry, assignor, by mesne assignments, to Appleton Electric Company, Chicago, Ill. Lamp guard and mounting therefor. 1,754,931; Apr. 15.
Braidwood, Chester A., Perth Amboy, N. J. Fish lure. 1,755,047; Apr. 15.
Brand, Smart. (See Nyquist, H., and Brand.)
Braren, Lorenz K., Munich, assignor to the firm Friedrich Deckel, Fabrik für Präzisionsmechanik und Maschinenbau, Munich, Germany. Engraving machine. 1,754,256; Apr. 15.
Brice, Roy C., assignor to The Miller Rubber Company, Akron, Ohio. Inflatable bag for use in tire building. 1,755,048; Apr. 15.
Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)
Brillié, Eugène, Paris, France. Steam engine particularly applicable to combined internal-combustion and steam engines. 1,754,602; Apr. 15.
British-American Tobacco Company Limited. (See Van Sickels, John H., assignor.)
Britt, Benjamin H., assignor to International Motor Company, New York, N. Y. Cooling system. 1,754,257; Apr. 15.
Broadwell, William C., Brooklyn, N. Y. Vehicle cushioning and shock-absorbing device. 1,754,258; Apr. 15.
Brogan, James J., Hightstown, N. J. Tube frame for weaving. 1,754,498; Apr. 15.
Brookby, Harry E., Evanston, assignor to United States Gypsum Company, Chicago, Ill. Fibrous wall board. 1,754,413; Apr. 15.
Brooks Steam Motors, Limited. (See Clarkson, Alick, assignor.)
Brown, Carl D., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,755,097; Apr. 15.
Brown, Charles J., Donora, Pa. Furnace gas burner. 1,754,603; Apr. 15.
Brown, Charles S., and R. H. Tontrup, jr., St. Louis, Mo. Sterilizable surgical-liquid dispenser. 1,754,259; Apr. 15.
Brown Company. (See Cox, John T., assignor.)
Brown Company. (See Richter, George A., assignor.)
Brown, E. M. (See Cary, Ralph L., assignor.)
Brown, Robert F., Baltimore, Md. Internal-combustion engine. 1,754,785; Apr. 15.
Brown & Sharpe Mfg. Co. (See Parker, John W., assignor.)
Brown, Stewart, Chicago, Ill. Indicator for automobile lubrication. 1,754,383; Apr. 15.
Brown, William E., Los Angeles, Calif. Jar closure. 1,754,542; Apr. 15.
Browne, James R., Evansville, Ind. Hydroairplane. 1,754,220; Apr. 15.
Browne, Louis I., Toledo, Ohio. Power tool. 1,754,348; Apr. 15.
Browne, William G., Yonkers, N. Y., and R. W. Olmsted, San Francisco, Calif. Advertising signboard structure. 1,754,932; Apr. 15.
Brownstein, Albert A., Walnut Park, Calif. Neckband construction. 1,754,499; Apr. 15.
Brueshaber, Martin W., Chicago, Ill. Machine for casting stereotype printing plates. 1,755,098; Apr. 15.
Brühlmann, Gottfried, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Electric switch. 1,754,849; Apr. 15.
Brunner, George M., Roseburg, Oreg. Time-controlled switch. 1,754,933; Apr. 15.
Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
Bryant, Elmer J., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass. Screw extractor. 1,754,736; Apr. 15.
Buchanan, Emmor A. (See Esch, H. E., and Buchanan.)
Buchanan, Frank L., Los Angeles, Calif. Pendulum roll mill. 1,754,414; Apr. 15.
Buckendale, Laurence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Automotive driving construction. 1,754,604; Apr. 15.
Budd, Howard L., assignor to Friedman Silver Co., Inc., Brooklyn, N. Y. Frame clip. 1,754,814; Apr. 15.
Buehler, Herbert A., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,754,804; Apr. 15.
Bull, Clinton H., assignor of one-half to C. C. Le May, Columbus, Ohio. Roller-cutter drill. 1,754,848; Apr. 15.
Bunker, Horace E., Plainfield, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,754,350; Apr. 15.
Burgess, C. F., Laboratories, Inc. (See Norris, Ralph F., assignor.)
Burke, Charles E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of ketone-formaldehyde condensation products. 1,755,099; Apr. 15.
Burks, William E., Kerryville, Tex. Aeroplane. 1,754,737; Apr. 15.
Burr, Gordon A. (See MacDonald, H. G., Mateer, and Burr.)
Burrell, William, Amarillo, Tex. Burglar alarm. 1,754,305; Apr. 15.
Bushnell, Burdge O., assignor to Union Oil Company of California, Los Angeles, Calif. Ladder for floating roof tanks. 1,754,384; Apr. 15.
Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Concrete elevating and distributing apparatus. 1,754,815; Apr. 15.
Buss, William D., assignor to The Hammond Manufacturing Company, Cleveland, Ohio. Machine for setting threaded devices. 1,754,978; Apr. 15.
Busse, Edwin G., Chicago, Ill., and W. Janus, Webster Groves, Mo., assignors to Chicago Railway Equipment Company, Chicago, Ill. Supplemental support for brake beams. 1,754,385; Apr. 15.
Butler, Clyde G., assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio. Grease bucket. 1,754,874; Apr. 15.
Cabrera, Charles T., assignor to Electro Dialyzer Corporation, New York, N. Y. Filtration apparatus. 1,754,967; Apr. 15.
Cadman, Addi B., Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill. Trailer vehicle. 1,755,100; Apr. 15.
Cadwallader, Converse B., Chicago, Ill., assignor to American Can Company, New York, N. Y. Pail. 1,754,456; Apr. 15.
Cady, Walter H., Beowawe, Nev., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass. Coating and surfacing prepared roofing. 1,755,049; Apr. 15.
Calcott, William S., Penns Grove, N. J., and H. W. Walker, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Noncorrosive alcoholic solution. 1,754,457; Apr. 15.
Callahan, Michael J., New York, N. Y. Low-down heating and ventilating unit. 1,754,260; Apr. 15.
Calle, Eugene F., Brooklyn, N. Y. Game. 1,754,738; Apr. 15.
Callum, Preston D., Baltimore, Md. Knife handle. 1,754,543; Apr. 15.
Calvert, Joseph E., Livingston, Mont. Screw-holding screw driver. 1,754,739; Apr. 15.
Cambridge Glass Co., The. (See Kelly, Jess C., assignor.)
Cambridge Rubber Company. (See Crockett, James B., assignor.)
Cameo Refrigerator Corporation. (See Covell, Ernest G., assignor.)
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car-door-locking means. 1,754,221; Apr. 15.
Campbell, Julian A. (See Bohnhardt, Charles F. H., assignor.)
Campbell, Julian A., Long Beach, Calif. Still. 1,754,605; Apr. 15.
Campbell, Julian A., Long Beach, Calif. Stabilizing absorption system. 1,754,606; Apr. 15.
Campbell, Julian A., Long Beach, Calif. Scrubber. 1,754,607; Apr. 15.
Canniff, Fred C., Tulsa, Okla. Sucker-rod socket. 1,754,816; Apr. 15.
Canut, Enrique, and J. M. Loydi, Sagua la Grande, Cuba. Automatic railroad gate. 1,755,050; Apr. 15.
Capital Lift and Manufacturing Company. (See Blackwood, Guy R., assignor.)
Capobianco, Domenico, New York, N. Y. Automobile bumper. 1,754,934; Apr. 15.
Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine needle-controlling mechanism. 1,754,608; Apr. 15.
Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)
Carroll, Emil J., Norwood, and G. W. Johnson, Bond Hill, assignors to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio. Rotary rug washing and finishing machine. 1,754,306; Apr. 15.
Carrozza, Theodore, Bronx, N. Y. Constructing interlocking structures. 1,754,261; Apr. 15.
Cartoning Machinery Corporation. (See Hohl, George I., assignor.)
Cary, Ralph L., Simpson, assignor of one-third to E. M. Brown, Salina, Kans. Oil can. 1,754,668; Apr. 15.
Cash, Ida, Brooklyn, N. Y. Musical educational toy. 1,754,458; Apr. 15.
Cash, Ida, Brooklyn, N. Y. Musical educational toy. 1,754,459; Apr. 15.
Catalytic Chemical Company. (See Ackerman, Albert H., assignor.)
Central Valve Mfg. Co. (See Pope, Charles S., assignor.)
Cenzi, Frank, St. Louis, Mo. Drier for dough products. 1,754,262; Apr. 15.
Chapman, William H. (See Ward, G. D., and Chapman.)
Cheney Brothers. (See de Hose, Albert, assignor.)
Cheney, Byron M., Chicago, Ill. Tie plate. 1,754,500; Apr. 15.
Cherry, Robert M., Schenectady, N. Y., assignor to General Electric Company. Electric furnace. 1,755,051; Apr. 15.
Cheshire, Ralph W. (See Baker, T. Y., and Cheshire.)
Chester, John S., Royal Oak, Mich. Broom protector. 1,755,052; Apr. 15.
Chicago Electric Manufacturing Co. (See Preston, Edward S., assignor.)
Chicago Railway Equipment Company. (See Busse, E. G., and Janus, assignors.)

Chipman, Paul, assignor of one-half to F. H. Alfred, Detroit, Mich. Railway-roadbed construction. 1,754,609; Apr. 15.

Chmielowski, Alfred, assignor to S. Katscher, Vienna, Austria. Directly producing phonogram carriers suitable to be played off. 1,754,935; Apr. 15.

Choriton, Alan E. L., London, England. Injection nozzle. 1,754,936; Apr. 15.

Chromeplate, Inc. (See Lichtman, Louis, assignor.)

Cincinnati Ball Crank Company, The. (See Butler, Clyde G., assignor.)

Cincinnati Car Corporation, The. (See Ellis, Charles J., assignor.)

Citizens of the United States, The. (See Wiegand, Ernest H., assignor.)

Citizens Savings Bank & Trust Company, The, executor. (See Anderson, Olaf A.)

Claiborne, Robert W., New Canaan, Conn. Stringed musical instrument. 1,754,263; Apr. 15.

Clark, Claiborn, Wilmar, Calif. Combined chin rest and muting device. 1,754,544; Apr. 15.

Clark, J. L., Manufacturing Co. (See Kjellstrom, John H., assignor.)

Clark, Mills G., East Cleveland, and W. G. Fording, Lakewood, Ohio. Dishwasher. 1,755,101; Apr. 15.

Clarkson, Alick, assignor to Brooks Steam Motors, Limited, Stratford, Ontario, Canada. Magnetic valve. 1,754,740; Apr. 15.

Clandeson Laboratory Inc., The. (See Johnson, Claude R., assignor.)

Clausnitzer, Rudolf A., Lubeck, Germany. Control means for superregenerative receivers. 1,754,264; Apr. 15.

Clayton, Albert S., Santa Ana, Calif. Animal carrier. 1,754,610; Apr. 15.

Clayton, Martin M., Beaver, Pa., assignor to National Metal Molding Company. Bar hanger for outlet boxes, etc. 1,754,849; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radiophone desk set. 1,754,875; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Regional system of radio broadcast distribution. 1,754,876; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio telephone system. 1,754,877; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Traffic-control system for radio broadcast distribution. 1,754,878; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Trunking system of radio distribution. 1,754,879; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio desk set. 1,754,880; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington D. C. Radio trunk system 1,754,881; Apr. 15.

Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Polyphase broadcast distribution. 1,754,882; Apr. 15.

Clemetsen Company, The. (See Vaaler, Jens, assignor.)

Clyne Engineering Company. (See Clyne, Robert G., assignor.)

Clyne, Robert G., deceased; Mercantile-Commerce Bank and Trust Company of St. Louis, administrator, assignor to Clyne Engineering Company, St. Louis, Mo. Pocket check protector. 1,754,611; Apr. 15.

Cochran, Albert W., and H. W. Dewey, Portland, Oreg. Combined matrix former and drier. 1,754,460; Apr. 15.

Cochran, Royal A., Atkins, La. Culinary utensil. 1,754,979; Apr. 15.

Cobb, J Forrest, Portland, Oreg., assignor to Moore Dry Kiln Company. Drying kiln. 1,754,351; Apr. 15.

Cobb, Pope, and A. S. Rose, Brownsville, Tenn. Pressure-exerting attachment for lawn-mower rollers. 1,754,741; Apr. 15.

Cobourn, Delbert F., Portsmouth, Ohio, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for controlling railway switches. 1,754,742; Apr. 15.

Cohen, Joseph H., Bridgeport, Conn. Heater. 1,754,669; Apr. 15.

Coleman, Telas. (See Finley, Harry P., assignor.)

Colladay, Edward F. (See Clement, Edward E., assignor.)

Colson Company, The. (See Roe, Mayo E., assignor.)

Columbia Phonograph Company. (See Hinckley, Frank C., assignor.)

Colvin, Harold B., Port Chester, N. Y., assignor to Bankers Development Corporation, New York, N. Y. Savings-bank clock case. Des. 80,991; Apr. 15.

Commercial Solvents Corporation. (See Stengel, Leonard A., assignor.)

Comstock, Bessie, Waukesha, Wis. Sofa pillow. 1,754,937; Apr. 15.

Conboy, Russell D., Waterbury, Conn., assignor to Ferdinand Strauss, Inc., New York, N. Y. Toy tractor. 1,754,307; Apr. 15.

Connell, Edwin L., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Electric drill. 1,754,222; Apr. 15.

Connors, Thomas F., Columbus, Ohio, assignor, by mesne assignments, to C. G. McGhie, St. Catharines, Ontario, Canada. Load-bearing tool. 1,754,415; Apr. 15.

Conran, William F., Brooklyn, N. Y. Fire-bucket tank. 1,754,980; Apr. 15.

Constabel, Arthur A., Norristown, Pa., assignor to The Bailey, Banks & Biddle Company, Philadelphia, Pa. Ring. Des. 80,935; Apr. 15.

Contact Filtration Company. (See Prutsman, P. W., and Benjamin, assignors.)

Cook, Charles B., Los Angeles, Calif. Liquid-bath apparatus. 1,754,612; Apr. 15.

Cooke, Troughton & Simms Limited. (See Baker, T. Y., and Cheshire, assignors.)

Cool, Ulysses M. (See Bean, W. G., and Cool.)

Cornell Multi-Wall Valve Bag Company. (See Currier, Arthur L., assignor.)

Cornell, Samuel. (See Dixon, John J., assignor.)

Corning, Clarence G., Wildrose, Wis. Post card and envelope counter. 1,755,063; Apr. 15.

Corwin, Howard D. (See Fox, W. R., and Corwin.)

Coryell, Charles N., New York, N. Y. Vanity case. 1,754,981; Apr. 15.

Coursey, Philip R., Richmond, England, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,754,265; Apr. 15.

Covell, Ernest G., assignor to Cameo Refrigerator Corporation, Los Angeles, Calif. Folding seat. 1,754,501; Apr. 15.

Covino, Isaac, West New York, N. J. Aircraft. 1,754,817; Apr. 15.

Cowdery, Robert H., Geneva, Ohio, assignor to The American Fork & Hoe Company. Fishing rod. Des. 80,990; Apr. 15.

Cowdery, Robert H., Geneva, and W. D. Grimes, assignors to The American Fork & Hoe Company, Cleveland, Ohio. Fishing rod and making same. 1,755,159; Apr. 15.

Cowell, Robert F., Teaneck, N. J., assignor to International Motor Company, New York, N. Y. Shock-insulator drawbar. 1,754,309; Apr. 15.

Cowell, Robert F., Teaneck, N. J., and R. W. Davis, Flushing, assignors to International Motor Company, New York, N. Y. Machine-unit support. 1,754,308; Apr. 15.

Cox, John T., assignor to Brown Company, Berlin, N. H. Flake-forming method. 1,754,266; Apr. 15.

Cricchio, Paul, assignor to Wrought Iron & Art Glass Fixture Co., Inc., New York, N. Y. Table lamp or article of similar nature. Des. 80,936; Apr. 15.

Crist, Ben J., Ellsworth, Minn. Pump jack. 1,754,982; Apr. 15.

Crockett, James B. (See Schidrowitz, Philip, assignor.)

Crockett, James B., assignor to Cambridge Rubber Company, Cambridge, Mass. Artificial flower and making same. 1,754,670; Apr. 15.

Croft, Hiram D. (See Perkins, J. L., and Croft.)

Croft, Hiram D., assignor to Perkins Machine and Gear Company, Springfield, Mass. Gear. 1,755,102; Apr. 15.

Crompton, Inc. (See Crompton, Randolph, assignor.)

Crompton, Randolph, Worcester, assignor to Crompton, Inc., Boston, Mass. Loom shedding-mechanism control. 1,754,613; Apr. 15.

Crosby, Thomas, New Britain, Conn. Indicator card for type fonts. 1,754,545; Apr. 15.

Crouse-Hinds Company. (See Borden, Stephen W., assignor.)

Crowell, Melvin E., Franklin, Ind., and W. E. White, jr., Redlands, Calif. Hydraulic brake. 1,754,223; Apr. 15.

Crowell, W. Hall, et al. (See Farnum, Dwight, assignor.)

Cudahy Packing Company, The. (See Shipner, John R., assignor.)

Cumbo, Ernesto, Milazzo, Italy. Motor boat. 1,754,983; Apr. 15.

Cummings, Thomas R., Walnut Grove, Calif. Cultivator attachment for tractors. 1,754,614; Apr. 15.

Cundall, Powell & Mosher, Inc. (See Cundall, Robert N., assignor.)

Cundall, Robert N., Blasdell, assignor to Cundall, Powell & Mosher, Inc., Buffalo, N. Y. Bottle-capping machine. 1,754,461; Apr. 15.

Cunniff, Edward A., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Co., Inc. Yarn-winding machine. 1,755,148; Apr. 15.

Cunningham, C. C., et al. (See Dwelle, Walter K., assignor.)

Currier, Arthur L., Ashburnham, assignor to Cornell Multi-Wall Valve Bag Company, Fitchburg, Mass. Valve-bag closing and sealing tool. 1,754,462; Apr. 15.

Cuthbert, John, assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Electric socket. 1,754,984; Apr. 15.

Dahl Bit Corporation. (See Dahl, John, assignor.)

Dahl, John, assignor to Dahl Bit Corporation, Dallas, Tex. Drill bit. 1,754,671; Apr. 15.

Dardelet, Hugues L., Nantes, France, assignor, by mesne assignments, to Dardelet Threadlock Corporation, New York, N. Y. Fastening device with instantaneous jamming. 1,754,938; Apr. 15.

Dardelet Threadlock Corporation. (See Dardelet, Hugues L., assignor.)

Darst, James M., East Cleveland, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Vacuum-cleaner-brush bearing. 1,755,054; Apr. 15.

Davenport, John D., Laurel Canyon, Calif. Hydraulic sprayers. 1,754,710; Apr. 15.

Davidson, John, jr., Montclair, N. J., and D. L. Moody, Hempstead, N. Y., assignors to American Telephone and Telegraph Company. Signaling system. 1,754,224; Apr. 15.

Davis, Augustine, jr. (See Shield, Paul S., assignor.)

Davis, Frederick W., Kingston-upon-Hull, assignor to F. L. Smidth and Company, Limited, London, England. Apparatus for delivering regular quantities of granular or pulverised material. 1,755,103; Apr. 15.

Davis, Rodger W. (See Cowell, R. F., and Davis.)

Davis, Tenney L., Norwell, Mass. Explosive and solvent therefor. 1,754,417; Apr. 15.

Dayton Pump & Mfg. Company, The. (See Bickmeyer, Earl E., assignor.)

Deaver, John T., et al. (See Dwelle, Walter K., assignor.)

Deere & Company. (See Nelson, Nicholas R., assignor.)

Deierlein, Edward, Port Chester, N. Y. Coupling. 1,755,104; Apr. 15.

Delling, Paul R., Haddon Township, Camden County, N. J. Fluid-fuel combustion. 1,754,546; Apr. 15.

Dellinger, Abraham M., Lancaster, Pa. Gear mechanism. 1,754,267; Apr. 15.

Delman, Inc. (See Morali, Charles, assignor.)

De Long, Harry B., Spokane, Wash. Radiator. 1,754,850; Apr. 15.

De Loss, Norman C., Shaker Heights, Ohio. Loose-leaf binder. 1,754,418; Apr. 15.

Demuth, Wm., & Co. (See St. John, George, jr., assignor.)

Den Besten, Gerrit, Holland, Mich. Safety hitch. 1,754,412; Apr. 15.

Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Method of and apparatus for the manufacture of inner tubes and the like. 1,754,502; Apr. 15.

De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Snap switch. 1,755,055; Apr. 15.

De Rose, Albert, Paris, France, assignor to Cheney Brothers, South Manchester, Conn. Textile fabric. Des. 80,937; Apr. 15.

Dethloff, Heinrich. (See Krull, H., and Dethloff.)

Detroit Stoker Company. (See Beers, Royce L., assignor.)

Deutsch, Leo, Beaver, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md. Visible pump. 1,754,615; Apr. 15.

Deutsche Asbestwerke A.-G. (See Georgi, Heinrich C., assignor.)

De Vleeschouwer, Camille. (See Tacoma, J., and de Vleeschouwer.)

De Weese, Walter E., Cleveland, Ohio. Motor-moistening device. 1,755,056; Apr. 15.

Dewey, Henry W. (See Cochran, A. W., and Dewey.)

De Wit, Uibe N. (See Bergmans, J., and de Wit.)

De Witt, William J., assignor to The Shoe Form Co., Inc., Auburn, N. Y. Apparatus for use in trimming hollow pediform articles. 1,754,618; Apr. 15.

Dexter Company, The. (See Dunn, Irving H., assignor.)

Dey, William H., Montclair, N. J., assignor to United States Radium Corporation, New York, N. Y. Plate frame. 1,754,851; Apr. 15.

Dictaphone Corporation. (See Bodine, Alfred V., assignor.)

Diemoulding Production Company. (See Holden, Joseph B., assignor.)

Di Lucci, Anthony, assignor to Applied Research, Inc., Chicago, Ill. Lamp. Des. 80,938; Apr. 15.

Dip-It Inc. (See Schlatter, Eugene R., assignor.)

Dirkes, Robert F., Jamaica, N. Y., and E. R. Wheeler, North Plainfield, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Telegraph-printer tape-feed mechanism. 1,754,985; Apr. 15.

Discrens, Paul, Brooklyn, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Pumping engine. 1,754,743; Apr. 15.

Dixon, John J., deceased, assignor of one-half to S. Cornell, Fairmont, W. Va.; F. J. Hession, administrator. Railway-track tie. 1,754,352; Apr. 15.

Doane, George B., jr. (See Woodbury, R., Martin, and Doane.)

Don Chemical Company, The. (See Stromacker, Charles J., assignor.)

Dörr, Wilhelm E., Friedrichshafen, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Airship. 1,754,883; Apr. 15.

Douglass, Leon F., Menlo Park, Calif. Camera attachment. 1,755,105; Apr. 15.

Dow Chemical Company, The. (See Gann, John A., assignor.)

Dräger, Alexander B., deceased; E. Dräger, née Stange, executrix, assignor to H. O. Dräger, Lubeck, Germany. Eyepiece for gas protective masks. 1,754,419; Apr. 15.

Dräger, Elfriede, née Stange, executrix. (See Dräger, Alexander B.)

Dräger, Heinrich O. (See Dräger, Alexander B., assignor.)

Draper Corporation. (See Brown, Carl D., assignor.)

Driggs, Louis L., jr., New Rochelle, and H. B. Faber, New York, N. Y. Fixed ammunition. 1,754,986; Apr. 15.

Driggs, Louis L., jr., New Rochelle, and H. B. Faber, New York, N. Y. Photographic-flash-light cartridge. 1,754,987; Apr. 15.

Dubilier Condenser Corporation. (See Coursey, Philip R., assignor.)

Dubilier Condenser Corporation. (See Dubilier, William, assignor.)

Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,754,268; Apr. 15.

Duer, Harry E. (See Haines, Stacey A., assignor.)

Duerser, Lewis W., assignor, by mesne assignments, of one-fifth to The Service Company, Fargo, N. Dak. Cement spreader for laying linoleum. 1,754,547; Apr. 15.

Dunann, R. A., administrator. (See Waite, Harry C.)

Dunann, R. A., et al. (See Waite, Harry C., assignor.)

Dunbar, Frank H. (See Sherman, M. C., and Hoff, assignors.)

Dunham Company, The. (See Kuenhold, Otto J., assignor.)

Dunn, Irving H., assignor to The Dexter Company, Fairfield, Iowa. Operating gearing for washing machines and the like. 1,754,548; Apr. 15.

Du Pont, E. I., de Nemours & Company. (See Burke, Charles E., assignor.)

Du Pont, E. I., de Nemours & Company. (See Calcott, W. S., and Walker, assignors.)

Du Pont, E. I., de Nemours & Company. (See Jordan, Henry, assignor.)

Dura Company, The. (See Graff, George, assignor.)

Durable Brush Co. (See Potter, Russell R., assignor.)

Durant Manufacturing Company. (See Plate, Albert H., assignor.)

Dutcher, Frank, McKeesport, Pa. Railway signal-fuse plug. 1,754,988; Apr. 15.

Dwelle, Walter K., assignor of forty per cent to J. T. Deaver, twelve and one-half per cent to J. Lawlor, and seven and one-half per cent to C. C. Cunningham, Houston, Tex. Indicator and recorder. 1,754,503; Apr. 15.

Dyresen, Didrick, Malden, Mass. Fastener. 1,754,672; Apr. 15.

Earl, Allen W., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Method of and apparatus for straightening annealing boxes. 1,754,616; Apr. 15.

East, Thomas A., Wallington, England, assignor to Radio Corporation of America. Winch. 1,754,786; Apr. 15.

Eaton, Charles C., Brockton, Mass., assignor, by mesne assignments, to E. A. Gray, Augusta, Me. Shoe filler. 1,754,225; Apr. 15.

Eckardt, Emil P. B., Stuttgart, Germany. Meter for compressed gas. 1,755,106; Apr. 15.

Economy Fuse and Manufacturing Company. (See Cuthbert, John, assignor.)

Edmunds, Glenn E., Franklin, assignor to The Bonney-Floyd Company, Columbus, Ohio. Journal-box mounting. 1,754,744; Apr. 15.

Edwards, Robert, Martins Ferry, Ohio. Mechanism for opening sheets. 1,754,852; Apr. 15.

Edwards, William H. (See Niles, E. W., and Edwards.)

Eggerts, Albert C. (See Zacharias, Fred, assignor.)

Eickmeyer, Earl E., assignor to The Dayton Pump & Mfg. Company, Dayton, Ohio. Gasoline pump. 1,754,504; Apr. 15.

Eisenman, Arthur A. (See Gilbert, Peter J., assignor.)

Electric Vacuum Cleaner Company. (See Darst, James M., assignor.)

Electro Dialyzer Corporation. (See Cabrera, Charles T., assignor.)

Ellenberger, Henry C., Detroit, Mich. Water hydrant. 1,754,810; Apr. 15.

Elliott, Charles H., assignor to Republic Iron and Steel Company, Youngstown, Ohio. Rolling strip metal. 1,754,745; Apr. 15.

Elliott, Charles W., Seymour, Ind. Wood-bending machine. 1,754,549; Apr. 15.

Ellis, Charles J., assignor, by mesne assignments, to The Cincinnati Car Corporation, Cincinnati, Ohio. Railway truck. 1,754,505; Apr. 15.

Endebak, Jacob, Chicago, Ill. Electric welding tool. 1,754,353; Apr. 15.

Engineer Company, The. (See McLean, Embury, assignor.)

England, Eric C. G., assignor to Gordon England (1929) Limited, Wimbley, England. Door for vehicles. 1,754,226; Apr. 15.

England, Gordon, (1929) Limited. (See England, Eric C. G., assignor.)

Enterprise Holding Company. (See Johnson, John O., assignor.)

Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)

Erb, George C., Roselle Park, N. J., assignor to American Can Company, New York, N. Y. Cover feed. 1,754,463; Apr. 15.

Ericsson, Elov, St. Paul, Minn. Pneumatic spring. 1,749,989; Apr. 15.

Ernst, John H., jr., Brooklyn, N. Y. Ice-pick holder. 1,754,673; Apr. 15.

Esch, Herman E., and E. A. Buchanan, Cherryvale, Kans. Garden tractor. 1,754,617; Apr. 15.

Esnard, Miguel, Matanzas, Cuba. Revolving flushing tank. 1,754,990; Apr. 15.

Euclid Crane & Hoist Company, The. (See Armington, Arthur P., assignor.)

Evans Auto Loading Co., Inc., The. (See Evans, Edward S., assignor.)

Evans, E. S., & Co. (See Evans, Edward S., assignor.)

Evans, E. S., & Company. (See Rogers, Edbert, assignor.)

Evans, Edward S., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Automobile tie-down device. 1,754,819; Apr. 15.

Evans, Edward S., assignor to E. S. Evans & Co., Inc., Detroit, Mich. Automobile tie-down device. 1,754,820; Apr. 15.

Evans, Edward S., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Automobile tie down. 1,754,821; Apr. 15.

Evans, Samuel J., Princeton, W. Va. Trolley-wire splice joint. 1,754,991; Apr. 15.

Evensen, Anton, Fox Lake, Ill. Locking attachment for vault doors. 1,754,386; Apr. 15.

Ewig, Friedrich, Brunswick, Germany. Suction dredger. 1,754,746; Apr. 15.

Eyer, Lewis B. (See Grube, John H., assignor.)

Faber, Henry B. (See Driggs, I. L., jr., and Faber.)

Fabrin, Axel O., assignor to The American Well Works, Aurora, Ill. Centrifugal pump. 1,754,992; Apr. 15.

Fagan, John J., Bayonne, N. J., and L. Kovacs, Brooklyn, N. Y. Electric valve. 1,755,057; Apr. 16.

Famous Players-Lasky Corporation. (See Pomeroy, Roy J., assignor.)

Fanaire Heater Company. (See Fisher, Ernest F., assignor.)

Fansteel Products Company. (See Balke, Clarence W., assignor.)

Farmer, Clyde C., Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,754,227; Apr. 15.

Farmer, Clyde C., Pittsburgh, and T. H. Thomas, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric signal system. 1,754,228; Apr. 15.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Vacuum brake. 1,754,229; Apr. 15.

Farmer, Clyde C., and W. C. Landis, Pittsburgh, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston and packing ring. 1,754,230; Apr. 15.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid compressor. 1,754,231; Apr. 15.

Farnsworth, Hiland R., assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Suction table roll. 1,754,822; Apr. 15.

Farnum, Dwight, assignor of twenty-five per cent to W. C. Woodward and thirty-seven and one-half per cent to W. H. Crowell, Los Angeles, Calif. Illuminated moving-picture theater. 1,754,674; Apr. 15.

Faverty, Clyde B., Hammond, Ind., assignor to Railway Locomotor Company, Chicago, Ill. Combination railway car and steam locomotives. Des. 80,992; Apr. 15.

Feldbush, Harry A., Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Valve. 1,754,747; Apr. 15.

Feldmühle, Papier- und Zellstoffwerke Aktiengesellschaft. (See Krull, H., and Dethloff, assignors.)

Fenton, Frank, assignor to The Miller Rubber Company, Akron, Ohio. Method of and apparatus for sizing hard-rubber articles. 1,754,988; Apr. 15.

Ferguson, William, Flint, Mich. Sheet-metal bumping-out tool. 1,754,994; Apr. 15.

Fifield, Albert F., St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail anchor. 1,754,420; Apr. 15.

Fifield, Albert F., St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail anchor. 1,754,421; Apr. 15.

Finley, Harry P., assignor of one-half to T. Coleman, Little Rock, Ark. Sustaining and stabilizing attachment for airplanes. 1,755,058; Apr. 15.

Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Preformed expansion joint. 1,755,107; Apr. 15.

Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Preformed rail filler. 1,755,108; Apr. 15.

Fisher, Ernest F., St. Louis, assignor to Fanaire Heater Company, St. Louis, Mo. Radiant heater. 1,754,232; Apr. 15.

Fisher Governor Company, The. (See Peterson, Charles D., assignor.)

Fisher, Stanley L., Chester, Conn., assignor to Pratt Read Player Action Company, Deep River, Conn. Connecting rod for air pumps. 1,754,618; Apr. 15.

Fisher, William C., assignor to Russell Manufacturing Company, Middletown, Conn. Friction element. 1,754,233; Apr. 15.

Fitchner, Zoe B., Tallahassee, Fla. Novelty doll. Des. 80,939; Apr. 15.

Fitz-Empire Double Pivot Last Company. (See Fuller, Perley, assignor.)

Flifet, Thorleif, and T. B. Allardice, Mountain Lakes, N. J. Curb block. 1,754,939; Apr. 15.

Flintkote Company, The. (See Avery, Henry C., assignor.)

Flogaus, Howard A., assignor to R. L. Skinner, Detroit, Mich. Sliding valve construction for internal-combustion engines. 1,754,787; Apr. 15.

Flynn, Charles C., Detroit, Mich. Sound amplifier. 1,754,506; Apr. 15.

Follansbee Brothers Company. (See Miner, H., and Grant, assignors.)

Foot, Edward H. W., Lincolnshire, England. Rotary tilling machine. 1,754,311; Apr. 15.

Ford, Harry G., San Francisco, Calif. Electric service tray. 1,754,619; Apr. 15.

Fording, William G. (See Clark, M. G., and Fording.)

Forrest, Kenrick A. (See Mount, William D., assignor.)

Forrestel, Eugene P., Buffalo, N. Y. Batch box. 1,754,550; Apr. 15.

Forrestel, Eugene P., Buffalo, N. Y. Batch box and grappling means therefor. 1,754,620; Apr. 15.

Fortier, Carolus, Outremont, Quebec, Canada. Machine for making dental rolls. 1,755,109; Apr. 15.

Fossa, Joseph, Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for operating upon parts of shoe uppers. 1,754,464; Apr. 15.

Foster, Mary F., trustee. (See Bollmann, Hermann, assignor.)

Fournier, G. W., et al. (See MacLellan, William J., assignor.)

Fox, John H., and W. Owen, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company. Apparatus for making composite glass. 1,754,853; Apr. 15.

Fox Machine Company. (See Fox, W. R., and Corwin, assignors.)

Fox, William R., and H. D. Corwin, assignors to Fox Machine Company, Jackson, Mich. Tapping or like machine. 1,754,621; Apr. 15.

Francis, Louis, Asheville, N. C., assignor to Westinghouse Electric and Manufacturing Company. Radiocabinet. Des. 80,940; Apr. 15.

Frank, John G., Buffalo, N. Y. Electromagnetic transmission. 1,754,675; Apr. 15.

Franklin Simon & Company. (See Long, Dorothy, assignor.)

Freeman, Charles K., Chicago, Ill. Tie rack. 1,754,940; Apr. 15.

Freeman, Hadley F. (See Lee, George E., assignor.)

Frey & Co., Frey-Uhren Aktiengesellschaft, et al. (See Frey, Emil, assignor.)

Frey & Co., Frey Watch Co., Limited, et al. (See Frey, Emil, assignor.)

Frey & Co., Montres Frey Societe Anonyme et al. (See Frey, Emil, assignor.)

Frey, Emil, assignor to the firm Frey & Co., Frey-Uhren Aktiengesellschaft (Frey & Co., Montres Frey, Societe Anonyme) (Frey & Co., Frey Watch Co., Limited), Bienne, Switzerland. Watch. 1,754,884; Apr. 15.

Friedman Silver Co. (See Budd, Howard L., assignor.)

Friedrich Deckel Fabrik für Präzisionsmechanik und Maschinenbau. (See Braren, Lorenz K., assignor.)

Frings, Gerhard, Cologne-Sulz, Germany. Butter cutter. 1,754,885; Apr. 15.

Fröhlich, Hans, and R. Pudelko, Zug, Switzerland, assignors to Landis & Gyr, A.-G. Induction meter. 1,755,110; Apr. 15.

Frohm, Henry A., Aetna, Ind. Pneumatic excavator and conveyer. 1,754,507; Apr. 15.

Frohring, William O., Shaker Heights, Ohio, and W. F. Richards, Mason, Mich., assignors, by mesne assignments, to The Laboratory Products Company, Cleveland, Ohio. Spray drier. 1,754,941; Apr. 15.

Frost, Anson J., Spokane, Wash. Electric insect destroyer. 1,754,748; Apr. 15.

Fuller, Perley, Lewiston, assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last-assembling machine. 1,754,269; Apr. 15.

Fulton, Rolland S., Detroit, Mich., assignor to Time Systems, Company. Secondary clock movement. 1,754,508; Apr. 15.

Gage, Edward G., Brooklyn, assignor to Radio Patents Corporation, New York, N. Y. Preventing commutator noises in radio. 1,754,622; Apr. 15.

Gallagher, Edward J., jr., Baltimore, Md. Windshield wiper. 1,755,069; Apr. 15.

Galligan, John T., assignor to The Ives Corporation, Bridgeport, Conn. Toy locomotive wheel. 1,754,995; Apr. 15.

Gann, John A., assignor to The Dow Chemical Company, Midland, Mich. Purifying light-metal alloys. 1,754,783; Apr. 15.

Gans, Robert S., Detroit, Mich. Brake-control mechanism. 1,754,354; Apr. 15.

Gant, Lucius L., Shreveport, La. Shoe. 1,754,996; Apr. 15.

Gantt, Clifton V., Wagener, S. C. Bushing. 1,754,997; Apr. 15.

Garrett, Stuart G., Tulsa, Okla. Two-piece electrical connection plug. 1,754,312; Apr. 15.

Garris, Amos L., Greenville, N. C. Harness buckle. 1,754,313; Apr. 15.

Gartner, Gust, Carroll, Nebr. Wire-holding fence post. 1,754,712; Apr. 15.

Gay, Bernard R., Cleveland, Ohio. Display case. 1,754,711; Apr. 15.

Gay, Fraser W., Newark, N. J. Cooling system for underground electric transmission lines. 1,754,314; Apr. 15.

Gay, Fraser W., Newark, N. J., assignor to General Electric Company. Automatic voltage-regulating means. 1,755,060; Apr. 15.

Gay, Fraser W., Newark, N. J., assignor to General Electric Company. Current-limiting means. 1,755,111; Apr. 15.

Geartta, Albert J., Escanaba, Mich. Fruit-display rack. 1,754,998; Apr. 15.

Geer, William C., New Rochelle, N. Y., and H. L. Trumbull, Hudson, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Dispersed vulcanized rubber. 1,754,886; Apr. 15.

Geeson, William J., Port Colborne, Ontario, Canada. Brake mechanism. 1,754,355; Apr. 15.

Gelstharp, Frederick, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company. Calcining apparatus. 1,754,854; Apr. 15.

Gemex Company. (See Prestinari, Eugen, assignor.)

General Aniline Works, Inc. (See Heyn, Bruno, assignor.)

General Aniline Works, Inc. (See Sohst, Otto, assignor.)

General Electric Company. (See Allen, Hugh E., assignor.)

General Electric Company. (See Bany, H., and Lockett, assignors.)

General Electric Company. (See Belt, Thomas A. E., assignor.)

General Electric Company. (See Bergmans, J., and de Wit, assignors.)

General Electric Company. (See Cherry, Robert M., assignor.)

General Electric Company. (See De Reamer, Frank C., assignor.)

General Electric Company. (See Gay, Fraser W., assignor.)

General Electric Company. (See Hildebrand, Lee E., assignor.)

General Electric Company. (See Jamieson, Bertrand G., assignor.)

General Electric Company. (See Kennedy, Luke F., assignor.)

General Electric Company. (See Otis, Albert N., assignor.)

General Electric Company. (See Pestarini, Joseph M., assignor.)

General Electric Company. (See Schiebeler, Carl, assignor.)

General Electric Company. (See Sims, William J., assignor.)

General Electric Company. (See Splittberger, Arthur, assignor.)

General Electric Company. (See Steenstrup, Christian, assignor.)

General Electric Company. (See Townsend, George R., assignor.)

General Gas Light Company. (See Humphrey, Hubert R. and G. A., assignors.)

General Industries Company, The. (See Bonsieur, Le, assignor.)

General Laboratories, Inc. (See Yates, John W., assignor.)

General Motors Corporation. (See Ward, G. D. and Chapman, assignors.)

General Tire & Rubber Company, The. (See Denmire, Harold A., assignor.)

Gentry, Oliver H., Rochester, N. Y. Scooter. 1,754,887; Apr. 15.

Georgi, Heinrich C., Berlin-Zehlendorf-West, assignor to Deutsche Asbestwerke A.-G., Berlin-Zehlendorf, Germany. Friction block for brakes, friction clutches, and the like. 1,754,676; Apr. 15.

Gerard, Roy H., San Francisco, Calif. Valve mechanism for internal-combustion engines. 1,754,888; Apr. 15.

Gerth, Felix, assignor to C. Lorenz, Aktiengesellschaft, Berlin-Tempelhof, Germany. Short-wave generator. 1,754,749; Apr. 15.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See Leib, August, assignor.)

Geuss, Paul S., Easton, Pa. Window-operating mechanism. 1,754,623; Apr. 15.

Gibson, Louis D., assignor to W. F. Tubbs Company, Norway, Me. Ski binder. 1,754,422; Apr. 15.

Gilbert, Peter J., Manitowoc, Wis., assignor to A. A. Eisenman, Manitowoc, Wis. Rotary valve. 1,754,509; Apr. 15.

Gilmore, Maurice, Abbotsford, British Columbia, Canada. Tool carrier. 1,755,112; Apr. 15.

Glase, Herbert L. (See Stanford, F. G., and Glase.)

Gleisner, Michael W., Racine, Wis., assignor to The American Brake Shoe & Foundry Company, New York, N. Y. Annealing pot. 1,754,423; Apr. 15.

Goldberg, David D., Chicago, Ill. Valve mechanism. 1,754,424; Apr. 15.

Goldsmith Metal Lath Company, The. (See Goldsmith, William M., assignor.)

Goldsmith, William M., assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio. Built-up stud for hollow partitions. 1,754,942; Apr. 15.

Goodman Manufacturing Company. (See Boehler, Herbert A., assignor.)

Goodman Manufacturing Company. (See Lindgren, Frank A., assignor.)

Goodrich, B. F., Company, The. (See Geer, W. C., and Trumbull, assignors.)

Goodridge, Gilbert W., Fairfield, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. 1,754,999; Apr. 15.

Goodyear Tire & Rubber Company, The. (See Kirk, Raphael S., assignor.)

Goodyear Tire & Rubber Company. (See Klaus, Fred R., assignor.)

Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)

Goodyear Tire & Rubber Company, The. (See Mallory, Gerald D., assignor.)

Goodyear Tire & Rubber Company, The. (See Sebrell, Lorin B., assignor.)

Goodyear Tire & Rubber Company, The. (See Swern, William E., assignor.)

Goodyear Zeppelin Corporation. (See Siegel, Wilhelm, assignor.)

Gordien, Harry L., The Dalles, Oreg. Rail plate. 1,754,750; Apr. 15.

Gordon, Leslie S., Chicago, Ill. Camera. 1,754,356; Apr. 15.

Gordon, Leslie S., Chicago, Ill. Camera. 1,754,357; Apr. 15.

Gorlup, Frank J., assignor to Wolverine Supply & Manufacturing Company, Pittsburgh, Pa. Toy. 1,754,823; Apr. 15.

Gracey, Harvey H., Fort Worth, Tex. Oil separator. 1,754,789; Apr. 15.

Graff, George, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio. Light. 1,754,855; Apr. 15.

Grand Rapids Show Case Company. (See Straayer, Martin J., assignor.)

Grant, Duncan. (See Miner, H., and Grant.)

Grant, John. (See Aloi, Millio F., assignor.)

Grant, John. (See Raymond, Edward F., assignor.)

Grant, John. (See Santiago, James J., assignor.)

Grant, John A., Trumansburg, N. Y. Tractor wheel. 1,755,160; Apr. 15.

Graves, Edward M., Cleveland Heights, Ohio. Boat-unloading mechanism. 1,754,824; Apr. 15.

Gray, Ernest A. (See Eaton, Charles C., assignor.)

Gray, Robert L. (See Allwill, Stephen S., assignor.)

Grayson, George L., and C. E. Knight, assignors to The J. H. Grayson Manufacturing Company, Athens, Ohio. Air filter for gas burners. 1,754,751; Apr. 15.

Grayson, J. H., Manufacturing Company, The. (See Grayson, G. L., and Knight, assignors.)

Green, Clifton H., Nashville, Tenn. Serving tray. 1,754,713; Apr. 15.

Greenberg, Louis, Chicago, Ill. Washing machine. 1,754,510; Apr. 15.

Greenfield Tap & Die Corporation. (See Bryant, Elmer J., assignor.)

Greiman, George H., Garner, Iowa. Excavator. 1,754,551; Apr. 15.

Griesbach, Robert, Ludwigshafen-on-the-Rhine, and O. Schliephake, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of potassium ammonium sulphate. 1,754,358; Apr. 15.

Griffiths, Francis H., Yonkers, assignor to The Reliable Automatic Sprinkler Company, Inc., New York, N. Y. Accelerator for dry-pipe valves. 1,754,511; Apr. 15.

Griffiths, Richard T., assignor to The Miller Rubber Company, Akron, Ohio. Tire-pingging method and means therefor. 1,754,624; Apr. 15.

Grim, James F., assignor of one-half to L. E. Grim, Comstock, Nebr. Cow stall. 1,754,752; Apr. 15.

Grim, Louie E. (See Grim, James F., assignor.)

Grimes, Wilson D. (See Cowdery, R. H., and Grimes.)

Groh, Christian, Caldwell, N. J. Automatic control device for aircraft. 1,754,790; Apr. 15.

Grom, Louise, New York, N. Y. Sanitary manicuring towel. 1,755,113; Apr. 16.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. 80,941; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,942; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,943; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,944; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,945; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,946; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,947; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,948; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,949; Apr. 15.

Gross, Benjamin, New York, N. Y. Finger ring or article of similar nature. Des. 80,950; Apr. 15.

Grube, John H., Pasadena, assignor to L. B. Eyer, Los Angeles, Calif. Can opener. 1,754,552; Apr. 15.

Grunwald, Albert C., River Forest, assignor to Precision Metal Workers, Chicago, Ill. Can opener. 1,754,315; Apr. 15.

Guertin, Paul, & Cie. (See Tapp, Charles E., assignor.)

Guilborg, John S., Chicago, Ill., assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill. Spotlight. 1,754,512; Apr. 15.

Gullett Gin Company. (See Johnston, William M., assignor.)

Gundrup, Lorenz, Springfield, Ill. Bracket. 1,754,714; Apr. 15.

Guyer, Jesse A. (See MacMullin, R. B., and Guyer.)

Haentjens, Otto, Hazleton, Pa. Priming means for centrifugal pumps. 1,755,000; Apr. 15.

Hagel, Robert W., New Orleans, La. Coffee percolator. 1,754,553; Apr. 15.

Hagstrom, William, Lindsborg, Kans. Belt plane. 1,754,554; Apr. 15.

Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Dialkylaminoalkylethers of alkylolphenols. 1,754,677; Apr. 15.

Hahl, Hans, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. New dialkyl-amino-alkylethers of alkylphenols. 1,754,678; Apr. 15.
Haight, George I., et al. (See Waite, Harry C., assignor.)
Haines, Stacey A., Lakewood, assignor, by mesne assignments, to H. E. Duer, North Olmsted, Ohio. Brush wringer mop. 1,754,856; Apr. 15.
Hale & Kilburn Co. (See Hansen, Conrad T., assignor.)
Halinka, George, Detroit, Mich. Latch mechanism. 1,754,889; Apr. 15.
Hall, Edwin A., Daggett, Mich. Roll construction for grist-mills. 1,754,270; Apr. 15.
Hall, Frederick H., Holford, England. Brake-actuating mechanism. 1,754,387; Apr. 15.
Hall, Jay B., Portland, Oreg., assignor to W. E. Hall, Saskatoon, Saskatchewan, Canada. Luggage or step carrier to be attached to automobiles or other vehicles. 1,754,555; Apr. 15.
Hall, Wilbur E. (See Hall, Jay B., assignor.)
Hallwood, Nathan A., Columbus, Ohio. Scale. 1,754,359; Apr. 15.
Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Delivery mechanism for newspaper stuffing or similar machines. 1,755,149; Apr. 15.
Halvorsen, Severin, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash. Delivery mechanism for newspaper stuffing machines. 1,755,150; Apr. 15.
Hamilton, Fred, Beaumont, Tex. Window construction. 1,754,316; Apr. 15.
Hamm, William S., Elkhart, Ind., assignor to Adlake Company, Chicago, Ill. Sash guide. 1,754,513; Apr. 15.
Hammar, Victor, Bofors, Sweden. Field gun with tube recoil. 1,754,943; Apr. 15.
Hammond Manufacturing Company, The. (See Buss, William D., assignor.)
Hansen, Conrad T., Philadelphia, Pa., assignor to Hale & Kilburn Co. Upper-deck seating arrangement for busses. 1,754,465; Apr. 15.
Hansena A.-G. (See Nathan, Leopold, assignor.)
Hanson, Isaac E., Oklahoma City, Okla. Aeroplane. 1,754,715; Apr. 15.
Harley, George W., Collingswood, N. J. Pattern and guide strip. 1,755,001; Apr. 15.
Harper, Philip S., Chicago, Ill. Gas burner. 1,754,388; Apr. 15.
Harris, Thomas H., Norwood, Ohio. Sign device. 1,754,944; Apr. 15.
Harrison, Albert D., Montreal, Quebec, Canada. Heat-exchange apparatus. 1,754,857; Apr. 15.
Hart, Frederick A., New Britain, Conn., assignor to Remington Accounting Machine Corporation, New York, N. Y. Combined typewriting and computing machine. 1,754,679; Apr. 15.
Harvey, Louis B., Sacramento, Calif. Internal-combustion motor. 1,754,389; Apr. 15.
Haskell, Richard M., Bradford, Pa., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J. Method and apparatus for flowing or pumping wells. 1,754,945; Apr. 15.
Haskell, Richard M., Bradford, Pa., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J. Well-flowing apparatus. 1,754,946; Apr. 15.
Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Poultry coop or crate. 1,754,947; Apr. 15.
Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Electric welding machine. 1,754,948; Apr. 15.
Haug, Anton J., Nashua, N. H. Method of and apparatus for screening pulp. 1,755,162; Apr. 15.
Haughton Elevator & Machine Company, The. (See Thurston, Ernest B., assignor.)
Hazeltine Corporation. (See Hazeltine, Louis A., assignor.)
Hazeltine, Louis A., Hoboken, assignor to Hazeltine Corporation, Jersey City, N. J. Unicontrol signaling system. 1,755,114; Apr. 15.
Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Variable condenser. 1,755,115; Apr. 15.
Hecht, Paul O., Davenport, Iowa, assignor to B & D Mfg. Co., Rock Island, Ill. Automatic thread-cutting tool. 1,754,949; Apr. 15.
Hegg, Edward C., Buffalo, N. Y., assignor to Mojonnier Bros. Co. Cutting and wrapping machine. 1,755,061; Apr. 15.
Henderson, Alonzo P., Hanover, Mass. Folding staging bracket. 1,755,116; Apr. 15.
Henderson, Harry M., Washington, D. C. Cup-dispensing mechanism. 1,754,271; Apr. 15.
Henderson, Jock L., Williamstown, W. Va. Device for cleaning the scalp and hair. 1,755,151; Apr. 15.
Henderson, Robert H., East Orange, N. J. Bender for thin wall conduits. 1,754,317; Apr. 15.
Hendricks, Fred H., Seattle, Wash. Automobile theft-signal switch. 1,754,360; Apr. 15.
Henning, Paul J., and W. H. Judy, Buenos Aires, Argentina. Piston ring. 1,754,625; Apr. 15.
Hénocque, Victor A., Les Basse-Croisille, par Conches, Eure, and H. Schmidt, Paris, France. Process and apparatus for obtaining new radiations. 1,754,950; Apr. 15.
Herbert, Edward J. (See Sussman, Jacob H., assignor.)
Hernes, Frank, and E. Winkler, Chicago, Ill. Combined table and amusement game. 1,755,062; Apr. 15.
Hershberg, Samuel M., Brooklyn, N. Y. Combination printing camera and paper-supplying mechanism. 1,754,860; Apr. 15.
Hession, Francis J., administrator. (See Dixon, John J.)
Heuser, Herman, Chicago, Ill. Foam production. 1,754,625; Apr. 15.
Heyn, Bruno, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. New derivative of 2.3-hydroxy-naphthoic acid and making same. 1,754,390; Apr. 15.
Hibbets, Charles M., Claude, Tex. Clutch-protecting device. 1,755,002; Apr. 15.
Hildebrand, Lee E., Marblehead, Mass., assignor to General Electric Company. Calibrating instruments. 1,755,117; Apr. 15.
Hildebrandt, Richard, Weehawken, N. J. Piston. 1,754,891; Apr. 15.
Hill, George, West Windsor, Ontario, Canada, assignor to R. L. Skinner, Detroit, Mich. Internal-combustion engine. 1,754,791; Apr. 15.
Hinckley, Frank C., Stratford, assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Sound amplifier. 1,754,425; Apr. 15.
Hitchcock, Halbert K., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Fluid-cooled roll. 1,754,826; Apr. 15.
Hitt, Thomas G., Seattle, Wash. Fastening pyrotechnic elements or firecrackers together. 1,755,003; Apr. 15.
Hobbs, Horace E., London, England. Tag. Des. 80,951; Apr. 15.
Hobbs, James C., Painesville, Ohio. Furnace wall. 1,754,514; Apr. 15.
Hoch, George, assignor to Star Chandelier Co., Inc., New York, N. Y. Globe holder for lighting fixtures or similar articles. Des. 80,953; Apr. 15.
Hodgkinson, Francis, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power installation. 1,754,426; Apr. 15.
Hodgson, John W., assignor to The Miller Rubber Co., Akron, Ohio. Plug-inserting needle. 1,754,556; Apr. 15.
Hoff, Leigh P. (See Sherman, M. C., and Hoff.)
Hoffmann, Konrad, Kreis Heinsberg, Germany. Process and apparatus for the manufacture of artificial threads of derivates of cellulose. 1,754,427; Apr. 15.
Hoffmann, Otto, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y. Wall bracket or similar article. Des. 80,952; Apr. 15.
Hohl, George I., assignor to Cartoning Machinery Corporation, Newport, R. I. Packaging mechanism. 1,754,318; Apr. 15.
Holden, Joseph B., assignor to Diemoulding Production Company, Incorporated, Canastota, N. Y. Jewel case. 1,755,063; Apr. 15.
Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Vacuum tube. 1,754,234; Apr. 15.
Hollier, Walter J., St. Louis, Mo. Washing machine. 1,754,951; Apr. 15.
Hollywood, Oney, Hyattville, Wyo. Fur stretcher. 1,755,118; Apr. 15.
Holm, John H., and L. E. Holm, assignors to Holm's Manufacturing Company, Kenosha, Wis. Vibrating-machine casing. Des. 80,955; Apr. 15.
Holm, Luther E. (See Holm, John H. and L. E.)
Holmberg, Albert W., South Orange, N. J., assignor to American Rubber Company, Boston, Mass. Waterproofing composition. 1,754,827; Apr. 15.
Holm's Manufacturing Company. (See Holm, John H. and L. E., assignors.)
Holst, Gilles, G. B. Jones, and A. Bouwers, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Anticathode for discharge tubes. 1,754,716; Apr. 15.
Holtzman, John, New York, N. Y. Lighter. 1,754,319; Apr. 15.
Holzhausen, Richard J., Westport, Conn. Washing-machine impeller. 1,754,626; Apr. 15.
Hopkins, Alfred, assignor to Hopkins-Tull Machinery Company, Philadelphia, Pa. Filter. 1,754,320; Apr. 15.
Hopkins, Charles L., River Forest, assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Indicating device for radioreceivers. 1,754,792; Apr. 15.
Hopkins-Tull Machinery Company. (See Hopkins, Alfred, assignor.)
Hopwood, John M. (See Peebles, Thomas A., assignor.)
Horni, Paul P., Newark, N. J. Traffic signal. Re17,642; Apr. 15.
Hosking, Richard T., Wilmette, assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill. Material strip for use in the manufacture of lock washers. 1,754,466; Apr. 15.
Hoskins, Herbert V., Waterville, Wash. Rotary disk weeder. 1,755,004; Apr. 15.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Towel-dispensing cabinet. 1,754,467; Apr. 15.
Hourd, Wilbert A., Detroit, Mich. Collapsible top. 1,754,235; Apr. 15.
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Full-fashioned-knitting machine. 1,754,680; Apr. 15.
Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Full-fashioned-knitting machine. 1,754,681; Apr. 15.

Howie, Kenneth, assignor to Wildman Mfg. Co., Norristown, Pa. Full-fashioned-knitting machine. 1,754,682; Apr. 15.
Hoyt, Hasen L., jr., and B. Washington, New York, N. Y. Stray-limiting device. 1,754,557; Apr. 15.
Hubbard, Henry E., Chicago, assignor to Addressograph Company, Chicago, Ill. Distributive-printing addressing machine. 1,754,861; Apr. 15.
Huber, John, Los Angeles, Calif. Method and machine for flanging plates. 1,754,428; Apr. 15.
Hughens, Robert L., Atlanta, Ga. Hub-cap wrench. 1,754,717; Apr. 15.
Hughes, Frederick G., assignor to The New Departure Manufacturing Company, Bristol, Conn. Bearing mounting. 1,754,892; Apr. 15.
Humphrey, George A. (See Humphrey, Hubert R. and G. A.)
Humphrey, Hubert R. and G. A., assignors to General Gas Light Company, Kalamazoo, Mich. Heating apparatus. 1,754,952; Apr. 15.
Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)
Hurlburt, Watson, Chicago, Ill. Torque converter. 1,754,893; Apr. 15.
Hurst, Edwin F. (See Sweet, C. H., and Hurst.)
Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Filter-cake loop drier. 1,755,005; Apr. 15.
Hurxthal, Alpheus O., assignor to Proctor and Schwartz, Incorporated, Philadelphia, Pa. Loop drier. 1,755,006; Apr. 15.
Husted, Norris C., Niles, Ohio. Fuse. 1,754,683; Apr. 15.
Hutchinson, Clara M. (See Whipple, Arden D., assignor.)
Hyland, George E. (See Stanford, F. G., and Glaze, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Bals, O., and Beuscher, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Griessbach, R., and Schliephake, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schwalbe, C. G., and Wenzl, assignors.)
Igou, Samuel C., St. Louis, Mo. Transmission. 1,754,953; Apr. 15.
Illy, Simon M. (See Reisenfeld, Leon A., assignor.)
Ingersoll-Rand Company. (See Metzgar, Chester W., assignor.)
International Combustion Engineering Corporation. (See Lundgren, Edwin, assignor.)
International Combustion Engineering Corporation. (See Packard, Edwin A., assignor.)
International Combustion Engineering Corporation. (See Wiebe, Sigurd J. A., assignor.)
International Fireproof Products Corporation. (See Vivas, Fernando S., assignor.)
International Motor Company. (See Britt, Benjamin H., assignor.)
International Motor Company. (See Cowell, Robert F., assignor.)
International Motor Company. (See Cowell, R. F., and Davis, assignors.)
International Motor Company. (See Leipert, August H., assignor.)
International Motor Company. (See Shields, Henry B., assignor.)
International Motor Company. (See Traver, Harold G., assignor.)
International Precipitation Company. (See Jakosky, John J., assignor.)
Iowa State College of Agricultural and Mechanical Arts. (See Sater, Lenore E., assignor.)
Iselin, Charles A., Fulton, assignor of one-half to E. Iselin, Syracuse, N. Y. Self-adjusting wrist pin. 1,754,753; Apr. 15.
Iselin, Erving. (See Iselin, Charles A., assignor.)
Iversen, Poul A. S., Copenhagen, Denmark. Motor-vehicle brake. 1,754,858; Apr. 15.
Ives Corporation, The. (See Galligan, John T., assignor.)
Ivey, Minnie M., Valdosta, Ga. Doll. 1,154,558; Apr. 15.
Jackson, Byron, Co. (See Smith, Nelson K., assignor.)
Jackson, Thomas, Mount Hawthorn, near Perth, Western Australia, Australia. Bumper bar. 1,755,007; Apr. 15.
Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Lighting and ignition switch. 1,754,754; Apr. 15.
Jacobson, Marcus, et al. (See Waite, Harry C., assignor.)
Jakosky, John J., assignor to International Precipitation Company, Los Angeles, Calif. Apparatus for the prevention of high-frequency radiation. 1,754,627; Apr. 15.
James, Cleveland A. (See Miller, Edgar A., assignor.)
James, Cleveland A. (See Miller, E. A., and James.)
Jamieson, Bertrand G., Hollywood, Ill., assignor, by mesne assignments, to General Electric Company. Electric-power distribution. 1,754,515; Apr. 15.
Janson, George W., Nutley, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Locating faults on messenger-call circuits. 1,754,628; Apr. 15.
Janus, William. (See Busse, E. G., and Janus.)
Jeffery, Frederick R., assignor to The Aetna Rubber Company, Cleveland, Ohio. Ice-cream-cabinet closure. 1,754,793; Apr. 15.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jellison, Frederick G., Georgetown, Mass. Mortar and pestle. 1,754,468; Apr. 15.
Johns-Manville Corporation. (See Wilbur, Lawrence S., assignor.)
Johnson, Axel, Oakland, assignor to American Can Company, San Francisco, Calif. Can-testing machine. 1,754,321; Apr. 15.
Johnson, Carl E., assignor to Boeing Airplane Company, Seattle, Wash. Instrument panel for aircraft. 1,754,954; Apr. 15.
Johnson, Charles S., Champaign, Ill. Bin. 1,754,516; Apr. 15.
Johnson, Claude R., Guymon, Okla., assignor to The Claudeson Laboratory Inc., Wilmington, Del. Window ventilator. 1,754,559; Apr. 15.
Johnson, Earl J., Silver Bow, Mont. Spark plug. 1,754,718; Apr. 15.
Johnson, George W. (See Carroll, E. J., and Johnson.)
Johnson, John E., assignor to Speedaumat Manufacturing Company, Chicago, Ill. Paper-cutting device. 1,754,862; Apr. 15.
Johnson, John O., assignor, by mesne assignments, to Enterprise Holding Company, Minneapolis, Minn. Snow-plow with top discharge. 1,754,322; Apr. 15.
Johnson, Oscar, New York, N. Y. Wrench. 1,754,684; Apr. 15.
Johnston, William M., assignor to Gullett Gin Company, Amite, La. Curved seed board for cotton gins. 1,755,008; Apr. 15.
Jonas, Gottfried B. (See Holst, G., Jonas, and Bouwers.)
Jones, George D., assignor to C. Moreing, Sacramento, Calif. Lubricating system. 1,754,859; Apr. 15.
Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyeing regenerated cellulose materials. 1,755,119; Apr. 15.
Jordan, O. F., Company. (See Protseller, Harry W., assignor.)
Jordan, O. F., Company. (See Tellis, Vsevolod G., assignor.)
Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting shoes. 1,754,272; Apr. 15.
Judy, Wilbur H. (See Henning, P. J., and Judy.)
Justrite Manufacturing Company. (See Raster, Walther, assignor.)
K. & S. Syndicate Limited, The. (See Killick, Reginald, assignor.)
Kadow, August, assignor of one-half to W. and C. W. Owen, Toledo, Ohio. Filling mold. 1,754,469; Apr. 15.
Kanter, Abram S., Moscow, Union of Soviet Socialist Republics, assignor to State Electrotechnical Trust, Moscow, Russia. Electric winding with variable pitch. 1,754,685; Apr. 15.
Kappes, William H., assignor to The Verdin, Kappes & Verdin Company, Cincinnati, Ohio. Clutch. 1,754,794; Apr. 15.
Karbowski, Victor, Idaho Springs, Colo., W. C. Smith, Des Moines, Iowa, assignors to Lake Shore Tire & Rubber Company, Chicago, Ill. Collapsible drum. 1,754,278; Apr. 15.
Karitzky, John. (See Pleister, H. W., and Karitzky.)
Karlson, Julius H., Chicago, Ill. Combined mixing and serving glass for drink mixers. 1,754,560; Apr. 15.
Katscher, Sigmund. (See Chmielowski, Alfred, assignor.)
Kee, Charles L., Portsmouth, Va. Combined change tray and advertising device. 1,754,363; Apr. 15.
Keema, Ernest, Maspeth, N. Y. Revolving lamp for gasoline pumps. 1,754,829; Apr. 15.
Keller, Walter E., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Sash guide. 1,754,517; Apr. 15.
Kellogg, William S., Peoria, Ill. Variable condenser. 1,754,894; Apr. 15.
Kelly, Jess C., assignor to The Cambridge Glass Co., Cambridge, Ohio. Glass relish tray or similar article. Des. 80,454; Apr. 15.
Kelsall, Albert H., San Diego, Calif. Hydrocarbon burner. 1,754,828; Apr. 15.
Kemp, Paul, Vienna, Austria. Bearing metal. 1,754,364; Apr. 15.
Kennedy, Joseph E., New York, N. Y. Gyratory crusher. 1,754,695; Apr. 15.
Kennedy, Luke F., Schenectady, N. Y., assignor to General Electric Company. Synchronising device. 1,755,064; Apr. 15.
Kent, Frederick T., East Orange, N. J. Player piano. 1,754,391; Apr. 15.
Kercher, Arthur J., Berkeley, assignor to Westx National Company, San Francisco, Calif. Circuit controller. 1,754,561; Apr. 15.
Kerlin, James R., Los Angeles, Calif. Bending machine. 1,754,470; Apr. 15.
Kerr, Cornelius W., Georgetown, Ky. Stone distributor. 1,755,120; Apr. 15.
Killick, Reginald, assignor to The K. & S. Syndicate Limited, London, England. Color-projection apparatus for cinematographs. 1,754,323; Apr. 15.
King, C. G., & Co. (See Recchia, Orlando, E., assignor.)
Kingsbury, Albert, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Bearing. 1,754,324; Apr. 15.

Kingsbury, Albert, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Bearing. 1,754,325; Apr. 15.

Kingsbury Machine Works, Inc. (See Kingsbury, Albert, assignor.)

Kinnie, H. Carl, assignor to F. H. Ward Co., Rockford, Ill. Vending cabinet. 1,754,518; Apr. 15.

Kircoaf, Charles H., Philadelphia, Pa., assignor, by mesne assignments, to The Lang Company, Gloucester, N. J. Beating apparatus. 1,754,519; Apr. 15.

Kirk, Raphael S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Web-guiding apparatus. 1,754,629; Apr. 15.

Kirschbraun, Lester, Chicago, Ill., assignor to The Patent and Licensing Corporation, Boston, Mass. Making curved roofing elements and product thereof. 1,754,771; Apr. 15.

Kjellstrom, John H., assignor to J. L. Clark Manufacturing Co., Rockford, Ill. Spool end. 1,754,274; Apr. 15.

Klamp, Paul, and J. J. Woolley, assignor to The Timken Roller Bearing Company, Canton, Ohio. Dressing device for grinding wheels. 1,754,630; Apr. 15.

Klaus, Fred R., Warren, assignor to Goodyear Tire & Rubber Company, Akron, Ohio. Wheel mounting. 1,754,631; Apr. 15.

Knauber, Alexander M., Chicago, Ill. Light-coloring screen. 1,754,896; Apr. 15.

Knight, Curtis E. (See Grayson, G. L., and Knight.)

Knode, Oliver M., Winnetka, assignor to United States Gypsum Company, Chicago, Ill. Plaster-wall-board construction. 1,754,429; Apr. 15.

Kohlhepp, John W., assignor to The Allbright-Nell Company, Chicago, Ill. Dehairing machine. 1,754,562; Apr. 15.

Kohn, Samuel, assignor to Wonda Phonograph Co., Inc., New York, N. Y. Automatic sound-reproducing machine. 1,754,897; Apr. 15.

Kokatnur, Vaman R. (See Stoddard, W. B., Townsend, and Kokatnur.)

Kovacs, Louis. (See Fagan, J. J., and Kovacs.)

Kraeft, Herman L., assignor to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Juvenile airplane construction. 1,754,430; Apr. 15.

Kraeft, Herman L., assignor to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Wheel construction. 1,754,431; Apr. 15.

Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tube-stripping machine. 1,755,065; Apr. 15.

Krag, Erik L., Chicago, Ill. Loose-leaf binder. 1,754,471; Apr. 15.

Krause, Hermann, assignor, by mesne assignments, to Stout Manufacturing Company, Menomonee Falls, Wis. Bottle-washing machine. 1,754,755; Apr. 15.

Krull, Hans, Scholwin, near Stettin, and H. Dethloff, Maxau, assignors to the firm Feldmühle- und Zellstoffwerke Aktiengesellschaft, Schwolwin, near Stettin, Germany. Device for drying cellulose films. 1,755,066; Apr. 15.

Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Gauge for sheet slitters and the like. 1,754,955; Apr. 15.

Kuenhold, Otto J., Cleveland, assignor to The Dunham Company, Berea, Ohio. Water heater. 1,754,472; Apr. 15.

Kuenne, Arthur, Chicago, Ill. Saw. 1,755,067; Apr. 15.

Kuhlmann, Arthur H., University City, Mo. Weather-proofing means. 1,754,956; Apr. 15.

L. C. L. Corporation, The. (See Woodruff, Graham C., assignor.)

Laboratory Products Company, The. (See Frohring, W. O., and Richards, assignors.)

Ladd, J. B. (See Schultz, Edward, assignor.)

Lake Shore Tire & Rubber Company. (See Karbowski, V., and Smith, assignors.)

Lanchester, Frederick W., Moseley, Birmingham, England. Telephonic loud-speaker. 1,754,860; Apr. 15.

Land, William M., et al. (See MacLellan, William J., assignor.)

Landis & Gyr A.-G. (See Fröhlich, H., and Pudelko, assignors.)

Landis, William C. (See Farmer, C. C., and Landis.)

Landress, Emmanuel I. (See Poliakoff, R. B., and Landress.)

Lang Company, The. (See Kircoaf, Charles H., assignor.)

Lang, Philip, assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Door-operating mechanism. 1,754,563; Apr. 15.

Langsdorf, Edwin B., New York, N. Y. Mirror or similar article. Des. 80,956; Apr. 15.

Latham, Albert, deceased, Beverly, Mass., by James W. Nourbourn, administrator, Somerville, Mass., assignor to American Button & Fastener Co., Augusta, Me. Feeding mechanism. 1,754,275; Apr. 15.

Latour, Marius, San Sebastian, Spain. Motor-control system. 1,755,121; Apr. 15.

Lawlor, James, et al. (See Dwelle, Walter K., assignor.)

Lawrence, A. C., Leather Company. (See Shoemaker, John G., assignor.)

Lawrence, Edward D., Oakland, Calif. Transfer board for printing presses. 1,754,795; Apr. 15.

Layng, Thomas E. (See Parr, S. W., and Layng.)

Lee, George E., Cleveland Heights, assignor to H. F. Freeman, Lakewood, Ohio. Signaling. 1,754,365; Apr. 15.

Lee Rubber & Tire Corporation. (See Weamer, Paul M., assignor.)

Lee, Tay H., Evanston, Ill. Vehicle braking apparatus. 1,754,861; Apr. 15.

Lehman, Louis H., Philadelphia, Pa. Watershed for doors and making it. 1,754,719; Apr. 15.

Leib, August, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for wireless telegraphy and telephony. 1,754,826; Apr. 15.

Leipert, August H., College Point, assignor to International Motor Company, New York, N. Y. Expanded valve seat. 1,754,720; Apr. 15.

Le May, Clarence C. (See Bull, Clinton H., assignor.)

Lentz, Herman M., Renville, Minn. Violin. 1,754,686; Apr. 15.

Leonard, Carl A., Bristol, Tenn. Paper-bag holder. 1,754,827; Apr. 15.

Levin, Harris, Freeport, assignor to The Lion Safety Pin Clutch Co., Inc., New York, N. Y. Finger-ring guard. 1,754,392; Apr. 15.

Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Loading machine. 1,754,276; Apr. 15.

Lichtman, Louis, assignor to Chromeplate, Inc., New York, N. Y. Hanger for articles to be plated. 1,755,122; Apr. 15.

Lichtman, Louis, assignor to Chromeplate, Inc., New York, N. Y. Hanger for articles to be plated. 1,755,123; Apr. 15.

Linde Air Products Company, The. (See Linden, Walter R., assignor.)

Linden, Walter R., Palisades Park, N. J., assignor to The Linde Air Products Company. Welding. 1,754,721; Apr. 15.

Lindgren, Frank A., Western Springs, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,754,328; Apr. 15.

Lindgren, Frank A., Western Springs, assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,754,329; Apr. 15.

Link-Belt Company. (See Snyder, Louis F., assignor.)

Lion Safety Pin Clutch Co., The. (See Levin, Harris, assignor.)

Lipman, Chmoul L., assignor of a part interest to Naider Brothers & Thompson Limited, London, England. Electrical measuring instrument. 1,755,009; Apr. 15.

Lissy, William, Spokane, Wash. Paintbrush holder. 1,754,366; Apr. 15.

Lister, William M., Kenilworth, N. J. Toy. 1,754,564; Apr. 15.

Litomy, John L., Glen Ridge, N. J. Outlining implement for surface-ornamenting processes. 1,754,330; Apr. 15.

Little, Charles W. G., Enfield, England. Pressure-indicating device for use with pneumatic tires. 1,755,010; Apr. 15.

Little Red Wagon Mfg. Co. (See Thomas, Arthur C., assignor.)

Little, Thomas L. (See Sherwood, L. R., and Little.)

Lloyd, John M. (See Wolfe, Ralph H., and M., assignors.)

Lobes, Pierre L., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston packing. 1,754,236; Apr. 15.

Lockett, Harry E. (See Bany, H., and Lockett.)

Locomotive Firebox Company. (See Nelson, Arthur W., assignor.)

Logan, Charles W., Kenmore, N. Y. Electric lamp. Des. 80,962; Apr. 15.

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,957; Apr. 15.

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Ensemble suit. Des. 80,958; Apr. 15.

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 80,959; Apr. 15.

Long, Dorothy, assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 80,960; Apr. 15.

Longenback, Edwin F., Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Work-holder for grinding machines. 1,754,398; Apr. 15.

Lorentzen, Hans K., New York, N. Y. Dispensing device for flexible sheet articles. 1,754,957; Apr. 15.

Lorenz, C., Aktiengesellschaft. (See Gerth, Felix, assignor.)

Low Temperature Carbonisation Limited. (See Parker, Charles H., assignor.)

Loydi, Jose M. (See Canut, E., and Loydi.)

Lucke, Charles E., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Evaporating or degasifying apparatus. 1,754,722; Apr. 15.

Ludlam, Warren V., Meridian, Miss. Air cleaner or filter for carburetors. 1,755,011; Apr. 15.

Luftschiffbau Zeppelin Gesellschaft mit beschränkter Haftung. (See Dörr, Wilhelm E., assignor.)

Lundgren, Edwin, Frederick, Md., assignor to International Combustion Engineering Corporation. Apparatus for pulverized-fuel burning. 1,754,277; Apr. 15.

Luxs, Ludwig, and A. A. Pimper, Howell, Nebr. Radio-cabinet. Des. 80,961; Apr. 15.

Lyons, J., and Company. (See Bilham, P. L., and Smith, assignors.)

MacClatchie, John W., Compton, Calif. Underreamer. 1,754,830; Apr. 15.

MacDonald, Howard G., Murrysville, J. E. Mateer, and G. A. Burr, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. High-voltage structure. 1,755,068; Apr. 15.

MacLellan, William J., Bellflower, Calif., assignor of one-fourth to himself, one-fourth to G. W. Fournier, one-fourth to W. M. Land, and one-fourth to J. H. Rogers. Hose knuckle. 1,754,687; Apr. 15.

MacMullin, Robert B., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Production of new hypochlorite compositions. 1,754,475; Apr. 15.

MacMullin, Robert B., and J. A. Guyer, La Salle, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Manufacture of calcium hypochlorite. 1,754,473; Apr. 15.

MacMullin, Robert B., and M. C. Taylor, Niagara Falls, assignors to The Mathieson Alkali Works, Inc., New York, N. Y. Production of new hypochlorite compositions. 1,754,474; Apr. 15.

MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Steering-gear mechanism. 1,754,632; Apr. 15.

MacPherson, Earle S., assignor to Hupp Motor Car Corp., Detroit, Mich. Cooling system. 1,754,689; Apr. 15.

Madorin, Otto H., Marshall, Mo. Airplane control stick. 1,755,124; Apr. 15.

Magill, Donald G., Chicago, Ill., assignor to American Can Company, New York, N. Y. Salt-can spout. 1,754,476; Apr. 15.

Magnavox Company, The. (See Albertus, Carl R., assignor.)

Magnuson, Oscar S., Davenport, Iowa. Safety latch for doors. 1,754,958; Apr. 15.

Malleable Iron Fittings Company. (See Williams, Rolland G., assignor.)

Mallory, Gerald D., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Protecting the interior surfaces of air bags from deterioration in service. 1,755,069; Apr. 15.

Manning, Fred W., Berkeley, Calif., assignor to Stewart-Warner Corporation, Chicago, Ill. Process of and apparatus for the continuous refining of lubricating oils of internal-combustion engines. Re17,644; Apr. 15.

Marinello Company. (See Andrews, Neal R., assignor.)

Markham, Harrie B., Escanaba, Mich. Furnace. 1,754,237; Apr. 15.

Marmonier, Louis, Lyon, France. Method and apparatus for directing torpedoes. 1,755,125; Apr. 15.

Marschel Frank Sachs Aktiengesellschaft in Chemnitz. (See Bernstein, Kurt J., assignor.)

Marsh, James H., Kansas City, Mo. Automatic envelope-stuffing machine. 1,754,831; Apr. 15.

Marsh Laboratories, Inc. (See Marsh, Orlando R., assignor.)

Marsh, Orlando R., Wilmette, Ill., assignor to Marsh Laboratories, Inc., Chicago, Ill. Method of and apparatus for directional recording. 1,754,520; Apr. 15.

Marshall Field & Company. (See Thompson, John W., assignor.)

Martin, Joseph E., and P. A. Martin, Newark, N. J. Submarine escapement apparatus. 1,754,690; Apr. 15.

Martin, Mark H., Reading, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Truck bolster. 1,754,633; Apr. 15.

Martin, Mark H., Reading, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Body bolster. 1,754,634; Apr. 15.

Martin, Percival A. (See Martin, Joseph E. and P. A.)

Martin, Ray L. (See Woodbury, E., Martin, and Doane.)

Martin, Wesley C., Donnelsville, Ohio. Engine-mounting means. 1,755,126; Apr. 15.

Martin, William A., assignor of one-half to J. B. Blackman, Fort Worth, Tex. Stalk cutter. 1,754,832; Apr. 15.

Mateer, Jesse E. (See MacDonald, H. G., Mateer, and Burr.)

Mateer, Jesse E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage structure. 1,754,833; Apr. 15.

Matheson, Donald E. (See Matheson, James H., assignor.)

Matheson, James H., Wyomissing, assignor to D. E. Matheson, Edgewood Park, Pa. Aerial for radio apparatus. 1,755,012; Apr. 15.

Mathieson Alkali Works, Inc., The. (See MacMullin, Robert B., assignor.)

Mathieson Alkali Works, Inc., The. (See MacMullin, R. B., and Guyer, assignors.)

Mathieson Alkali Works, Inc., The. (See MacMullin, R. B., and Taylor, assignors.)

Matushenko, Dimitry F., Brooklyn, N. Y. Bracelet lock. 1,754,959; Apr. 15.

Mauborgne, Camille, Montreal, Quebec, Canada. Switch mechanism. 1,755,070; Apr. 15.

Mayer, Herman, Philadelphia, Pa. Reflector. 1,754,960; Apr. 15.

McCandless, Joshua L., Hennessey, Okla. High-water signaling apparatus. 1,754,893; Apr. 15.

McCarthy, Bernard J., Jamaica Plain, Mass. Bending apparatus. 1,754,635; Apr. 15.

McClendon, B. B., et al. (See Barr, Harry D., assignor.)

McCollom, Alvan B., San Francisco, Calif. Fruit pitter. 1,754,636; Apr. 15.

McCollom, Edward, New York, N. Y. Daylight sign. 1,754,565; Apr. 15.

McCormick, Charles R., Detroit, Mich. Upholstered seat. 1,754,278; Apr. 15.

McCormick, John W., Tulsa, Okla. Garment drier. 1,755,013; Apr. 15.

McDonald, Donald, jr. (See Ray, C. T., and McDonald.)

McElroy, William, Brooklyn, N. Y. Method of and apparatus for keeping spark plugs clean. 1,754,796; Apr. 15.

McFarlane, Maynard L. D., New York, N. Y., and H. G. Bartholomew, London, England. Machine for reproducing and transmitting pictures. 1,754,688; Apr. 15.

McGahey, Robert E., Alexandria, Va. Grease-gun connection. 1,754,723; Apr. 15.

McGhie, Charles G. (See Connors, Thomas F., assignor.)

McGough, Cyril A., Altoona, Pa. Pipe-flanging tool. 1,754,637; Apr. 15.

McLean, Embury, Brooklyn, assignor to The Engineer Company, New York, N. Y. Furnace and control therefor. 1,754,279; Apr. 15.

McNamara, John F., Chicago, Ill. Shoe heel. 1,754,280; Apr. 15.

McNeal, Charles E., Forestville, N. Y. Separating machine and process of separating material. 1,754,834; Apr. 15.

Mead, Fred J., East Orange, N. J. Concrete form and structure. 1,754,638; Apr. 15.

Mead, George J., assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Supercharger construction. 1,754,724; Apr. 15.

Melbye, Oskar, Sedro Woolley, Wash. Windlass. 1,754,691; Apr. 15.

Mensin, Abraham L., San Francisco, Calif., assignor to Blaw-Knox Company, Blawnox, Pa. Separator. 1,754,477; Apr. 15.

Mensin, Abraham L., San Francisco, Calif., assignor to Blaw-Knox Company, Blawnox, Pa. Steam separator. 1,754,478; Apr. 15.

Mercantile-Commerce Bank and Trust Company of St. Louis. (See Cirne, Robert G.)

Merrylees, Thomas S., Yeadon, Pa. Liquid cooler. 1,754,756; Apr. 15.

Metzgar, Chester W., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Dual-pressure unloader. 1,754,831; Apr. 15.

Meyer, Edwin C., Los Angeles, Calif. Coupling. 1,754,639; Apr. 15.

Meyer, Elizabeth M., New York, N. Y. Soluble albumin and producing it. 1,754,521; Apr. 15.

Michel, Gilbert, Bagneux, France. Protecting easily-oxidizable metals such as those having a base of magnesium, aluminum, calcium, etc. 1,754,481; Apr. 15.

Michigan Wire Goods Company. (See Smith, Benjamin H., assignor.)

Miles, Charles C., et al. (See Alseth, S., and Neal, assignors.)

Miller, Charles S., Ballinger, Tex. Bit lifter. 1,754,692; Apr. 15.

Miller, Edgar A., assignor of one-half to C. A. James, Philadelphia, Pa. Reflector. 1,754,900; Apr. 15.

Miller, Edgar A., and C. A. James, Philadelphia, Pa. Danger-signal device. 1,754,899; Apr. 15.

Miller, Monroe E., Washington, D. C., assignor, by mesne assignments, to Union Simplex Train Control Co., Inc. Run-down and reset locomotive-control apparatus. 1,754,901; Apr. 15.

Miller Rubber Company, The. (See Brice, Roy C., assignor.)

Miller Rubber Company, The. (See Fenton, Frank, assignor.)

Miller Rubber Company, The. (See Griffiths, Richard T., assignor.)

Miller Rubber Co., The. (See Hodgson, John W., assignor.)

Miller Rubber Co., The. (See Tition, Joseph E., assignor.)

Miller Rubber Company, The. (See Welmer, Roy B., assignor.)

Miller, Wilber B., Flushing, N. Y., assignor to Oxweld Acetylene Company. Welding. 1,754,566; Apr. 15.

Miner, Claude G., Berkeley, Calif. Producing anhydrous aluminum halide from a double halide of aluminum and ammonium. 1,754,797; Apr. 15.

Miner, Howard, and D. Grant, Toronto, Ohio, assignors to Follansbee Brothers Company, Pittsburgh, Pa. Conveyer. 1,754,798; Apr. 15.

Mizrahi, Mos, New York, N. Y. Combined window seat and refrigerator. 1,754,640; Apr. 15.

Mobley, Henry G., League City, Tex. Pressure-relief apparatus. 1,754,641; Apr. 15.

Modine, Arthur B., assignor to Modine Manufacturing Company, Racine, Wis. Heating unit. 1,754,642; Apr. 15.

Modine Manufacturing Company. (See Modine, Arthur B., assignor.)

Moginie, Arthur H., Sydney, New South Wales, Australia. Apparel suspension. 1,754,862; Apr. 15.

Mojonnier Bros. Co. (See Herz, Edward C., assignor.)

Moore, Arlington, New York, N. Y. Antidetonation cylinder head for internal-combustion engines. 1,754,643; Apr. 15.

Moore, Arlington, New York, N. Y. Paper bottle. 1,754,644; Apr. 15.

Moore, Clarence W., Roslyn, Pa., assignor to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Fountain cuspidor. 1,754,757; Apr. 15.

Moore Dry Kiln Company. (See Cobb, J Forrest, assignor.)

Moody, Dwight L. (See Davidson, J., jr., and Moody.)

Morall, Charles, assignor to Delman, Inc., New York, N. Y. Shoe. Des. 80,963; Apr. 15.

Moreing, Charles. (See Jones, George D., assignor.)

CARNEGIE LIBRARY OF ATLANTA

Moreton, Henry H., Santa Monica, Calif. Oil can. 1,754,367; Apr. 15.
Moreton, Henry H., Santa Monica, Calif. Oil can. 1,754,394; Apr. 15.
Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)
Morris, John T., Glen Morrison, W. Va. Apparatus for inverting mine cars. 1,754,395; Apr. 15.
Morrison, Carrie B., Pawnee Station, Kans. Thumb saver. 1,755,014; Apr. 15.
Mount, William D., Lynchburg, Va., assignor of one-half to K. A. Forrest, Harvey, Ill. Continuous sulphate process. 1,754,902; Apr. 15.
Muckenhirn, Charles H., Detroit, Mich. Internal-combustion engine. 1,754,758; Apr. 15.
Müller, Emanuel, Unter-Engstringen, near Zurich, Switzerland. Container closure. 1,755,015; Apr. 15.
Müller, Karl J. (See Wilhelm, F., and Müller.)
Multibestos Company. (See Waite, Edwin E., assignor.)
Murphy, John L., Ithaca, N. Y. Hay and grain handling machine. 1,755,016; Apr. 15.
Murray Ohio Manufacturing Company, The. (See Kraeft, Herman L., assignor.)
Mutscheller, Arthur, New York, N. Y., assignor to Wappler Electric Company, Inc. X-ray machine. 1,754,799; Apr. 15.
N. V., Philips' Gloeilampenfabrieken. (See Holst, G., Jonas, and Bouwers, assignors.)
Nalder Brothers & Thompson Limited. (See Lipman, Chmoul L., assignor.)
Nathan, Leopold, Zurich, assignor to the Corporation of Hansena A.-G., Glarus, Switzerland. Process and apparatus for the filtration of beer wort for further treatment, and for the filtration of beer and other foaming liquids. 1,754,432; Apr. 15.
National Blank Book Company. (See Schade, Frank S., assignor.)
National Enameling & Stamping Co. (See Sladky, Joseph, and A. C., assignors.)
National Metal Molding Company. (See Clayton, Martin M., assignor.)
Naugatuck Chemical Company, The. (See Traube, Isidor, assignor.)
Neal, Vincent L. (See Alseth, S., and Neal.)
Nearing, Dudley W., New Britain, assignor to The New Departure Manufacturing Company, Bristol, Conn. Measuring rule. 1,754,903; Apr. 15.
Neilson, Thomas, Glasgow, Scotland. Air-directing device. 1,754,961; Apr. 15.
Nelson, Arthur W., Park Ridge, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive boiler. 1,754,761; Apr. 15.
Nelson, Carl P., Firth, Idaho. Door lock. 1,754,896; Apr. 15.
Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Sash construction. 1,754,759; Apr. 15.
Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Corner-bar construction for store fronts and the like. 1,754,760; Apr. 15.
Nelson, Charles G., assignor to Zouri Drawn Metals Company Chicago Heights, Ill. Adjustable frame setting. 1,754,762; Apr. 15.
Nelson, Nicholas R., East Moline, assignor to Deere & Company, Moline, Ill. Harvester binder. 1,754,962; Apr. 15.
Nerre, Adolf, Basel, Switzerland. Metal container with lid for semifluid and thick substances. 1,755,017; Apr. 15.
Neuerburg'sche Verwaltungsgesellschaft m. b. H., Messrs. (See Schünemann, Heinrich, assignor.)
Neustatter, Isidor, Tucson, Ariz. Aeroplane. 1,754,397; Apr. 15.
Neuwirth, Herman, Brooklyn, N. Y. Goggles. 1,754,694; Apr. 15.
New Departure Manufacturing Company, The. (See Hughes, Frederick G., assignors.)
New Departure Manufacturing Company, The. (See Nearing, Dudley W., assignor.)
New Departure Manufacturing Company, The. (See Weldon, Chichester P., assignor.)
Newell, Gwendolan, San Francisco, Calif. Fishing gear. 1,754,567; Apr. 15.
Newhall, Henry B., Corporation. (See Pleister, H. W., and Karitzky, assignors.)
Newspaper Stuffing Machine Company, The. (See Halvorsen, Severin, assignor.)
Newton, Herbert B., Brookline, Mass. Wheelbarrow. 1,754,835; Apr. 15.
Nicholas Power Company. (See Uhlemann, Theodore F., assignor.)
Nicholls, Henry M., Chicago, Ill., assignor to American Can Company, New York, N. Y. Container. 1,754,482; Apr. 15.
Niles, Eliot W., Bloomfield, N. J., and W. H. Edwards, Bayside, N. Y., assignor to American Telephone and Telegraph Company. Coin-box device. 1,754,238; Apr. 15.
Niles, Eliot W., Bloomfield, N. J., and W. H. Edwards, Bayside, N. Y., assignor to American Telephone and Telegraph Company. Telephone signaling system. 1,754,239; Apr. 15.
Nischan, John C., Evanston, Ill. Draw punch. 1,754,568; Apr. 15.
Nitsch, Richard, Warren, Ariz. Sewing wire for flat rope. 1,755,018; Apr. 15.
Norris, Ralph F., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis. Acoustcal study and correction of auditoriums. 1,754,332; Apr. 15.
Nourbourn, James W., administrator. (See Latham, Albert, deceased, assignor.)
Novelite, Inc. (See Saradian, Haig, assignor.)
Nunnally, Joseph M., Hollywood, Calif. Therapeutic pad. 1,754,763; Apr. 15.
Nyquist, Harry, Millburn, N. J., and S. Brand, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Composite telephone and telegraph system. 1,754,240; Apr. 15.
O'Brien, Norman B. M., London, England, assignor, by mesne assignments, to Autolux Sign Company, Boston, Mass. Display sign. 1,754,863; Apr. 15.
O'Donnell, John W., Salem, assignor to The Turner Tanning Machinery Company, Peabody, Mass. Machine for working leather and other sheet material. 1,754,281; Apr. 15.
Ogden, J. Edward, Company. (See Tomkinson, Charles C., assignor.)
Ogg, Harry L., assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa. Agitating disk for washing machines. 1,755,071; Apr. 15.
Ohio Foundry and Manufacturing Co., The. (See Sharp, William L., assignor.)
Olmsted, Roger W. (See Browne, W. G., and Olmsted.)
Olson, John A., assignor to R. M. Olson, Cleveland, Ohio. Fluid sealing means. 1,754,764; Apr. 15.
Olson, Ruth M. (See Olson, John A., assignor.)
Osborn, Jesse C. (See Anderson, C. A., and Osborn.)
Osborn, William H., Harrison, N. Y. Pressure gauge. 1,754,963; Apr. 15.
Osgood, Charles R., Monroe, Mich. Straw wilter. 1,754,522; Apr. 15.
Oswald, Alfred E., Hackensack, N. J., assignor to Underwood Elliot Fisher Company, New York, N. Y. Electric motor. 1,754,645; Apr. 15.
Otis, Albert N., Schenectady, N. Y., assignor to General Electric Company. Furnace. 1,755,072; Apr. 15.
Outwalt, Charles. (See Ralph, F. C., and Outwalt.)
Owen, Charles W., et al. (See Kadow, August, assignor.)
Owen, Robert V., New York, N. Y. Automatic electrical switch. 1,754,398; Apr. 15.
Owen, Wilber, et al. (See Kadow, August, assignor.)
Owen, William. (See Fox, J. H., and Owen.)
Owens, Freeman H., New York, N. Y. Color-screen accessory for cameras. 1,754,282; Apr. 15.
Oxweld Acetylene Company. (See Miller, Wilber B., assignor.)
Package Machinery Company. (See Smith, Elmer L., assignor.)
Packard, Edwin A., Yonkers, assignor to International Combustion Engineering Corporation, New York, N. Y. Steam-power plant. 1,754,283; Apr. 15.
Pancoast, William G., Winnetka, assignor to Bifex Products Company, Waukegan, Ill. Clamp for automobile bumpers. 1,754,964; Apr. 15.
Paper Service Company, The. (See Rowe, William W., assignor.)
Paper & Textile Machinery Company, The. (See Farnsworth, Hiland R., assignor.)
Parker, Charles H., Codsall, assignor to Low Temperature Carbonisation Limited, London, England. Retort for the distillation of coal and other solid carbonaceous substances. 1,754,693; Apr. 15.
Parker, Frank C., jr., Norristown, Pa. Musical instrument. 1,755,019; Apr. 15.
Parker, John W., Barrington, assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Radius tool. 1,755,152; Apr. 15.
Parr, Samuel W., and T. E. Layng, assignors, by mesne assignments, to Urbana Coke Corporation, Urbana, Ill. Coking coal. 1,754,765; Apr. 15.
Partell, Fred C., Lewiston, Me. Blotter holder. 1,754,368; Apr. 15.
Pascucci, Giuseppe, Genoa, Italy. Utilization of the force of gravity and relative apparatus. 1,754,899; Apr. 15.
Passega, Carlo, Paris, France. Traction device for wheels. 1,754,569; Apr. 15.
Patent and Licensing Corporation, The. (See Cady, Walter H., assignor.)
Patent and Licensing Corporation, The. (See Kirschbraun, Lester, assignor.)
Paynter, Horace J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Rotary can-end drier. 1,754,483; Apr. 15.
Peabody Engineering Corporation. (See Peabody, Ernest H., assignor.
Peabody, Ernest H., Pelham Manor, assignor to Peabody Engineering Corporation, New York, N. Y. Double-ported register for fuel burners. 1,754,488; Apr. 15.
Peebles, Thomas A., Mount Lebanon, assignor to J. M. Hopwood, Dormant, Pa. Combustion-control apparatus. 1,754,965; Apr. 15.
Pelton, John C., Santa Barbara, Calif. Block-ejecting machine. 1,754,484; Apr. 15.
Perino, Josef, Stettin, Germany. Manufacturing a vegetable alimentary extract. 1,754,434; Apr. 15.
Perkins, Julian L., West Springfield, and H. D. Croft, Springfield, assignors to Perkins Machine and Gear Company, West Springfield, Mass. Variable driving mechanism. 1,755,127; Apr. 15.
Perkins Machine and Gear Company. (See Croft, Hiram D., assignor.)

Perkins Machine and Gear Company. (See Perkins, J. L., and Croft, assignors.)
Pestarini, Joseph M., St. Ouen, France, assignor to General Electric Company. Dynamo-electric machine. 1,755,073; Apr. 15.
Peters, Charles S., Cuyahoga Falls, Ohio. Combination check and tag. 1,755,128; Apr. 15.
Peterson, Charles D., assignor to The Fisher Governor Company, Marshalltown, Iowa. Electric control for reducing valves, etc. 1,755,020; Apr. 15.
Pfouts, Joan S., administratrix. (See Pfouts, Leroy S.)
Pfouts, Leroy S., deceased, Canton, Ohio; J. S. Pfouts adminstratrix. Apparatus for treating materials. 1,755,021; Apr. 15.
Philadelphia Toboggan Company. (See Schmeck, Herbert P., assignor.)
Phillips, Benjamin, Cincinnati, Ohio. Oil-dispensing measuring device. 1,754,966; Apr. 15.
Phillips, Maurice F., Richmond, Va. Outdoor advertising device. 1,754,369; Apr. 15.
Phillips, Stanton, Atlantic City, N. J. Collapsible cigar stand. 1,754,766; Apr. 15.
Pickett, John P., Camden, S. C. Flash light. 1,754,570; Apr. 15.
Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)
Pilot Laboratory, Inc. (See Stoddard, William B., assignor.)
Pilot Laboratory, Inc. (See Stoddard, W. B., Townend, and Kokatnur, assignors.)
Pimper, Alois A. (See Luxa, L., and Pimper.)
Pittsburgh Plate Glass Company. (See Fox, J. H., and Owen, assignors.)
Pittsburgh Plate Glass Company. (See Geistharp, Frederick, assignor.)
Pittsburgh Plate Glass Company. (See Hitchcock, Halbert K., assignor.)
Pittsburgh Plate Glass Company. (See Showers, Lee, assignor.)
Pittsburgh Plate Glass Company. (See Watt, John A., assignor.)
Plate, Albert H., assignor to Durant Manufacturing Company, Milwaukee, Wis. Control device for mixing machines. 1,754,284; Apr. 15.
Pleister, Henry W., Westfield, and J. Karitzky, assignors to Henry B. Newhall Corporation, Garwood, N. J. Bolt anchor. 1,754,333; Apr. 15.
Ploger, Gustav, Dell, Mont. Aeroplane. 1,755,022; Apr. 15.
Podmayer, Stephan, assignor to Stability Leather Goods Mfg. Co., St. Louis, Mo. Traveling bag. Des. 80,964; Apr. 15.
Podolsky, Henry, San Francisco, Calif. Aeroplane. 1,754,571; Apr. 15.
Poliakoff, Rouvime B., New York, and E. I. Landress, Brooklyn, N. Y. Lock device for dial telephones. 1,754,400; Apr. 15.
Pomeroy, Roy J., assignor of one-half to Famous Players-Lasky Corporation, Los Angeles, Calif. Making composite photographs. 1,755,129; Apr. 15.
Pomeroy, Roy J., assignor of one-half to Famous Players-Lasky Corporation, Los Angeles, Calif. Making composite photographs. 1,755,130; Apr. 15.
Pope, Charles S., assignor to Central Valve Mfg. Co., Chicago, Ill. Self-grinding valve. 1,754,523; Apr. 15.
Porter, George L., Steubenville, Ohio. Paper container for frozen confections. 1,754,524; Apr. 15.
Posey, L. L., et al. (See Barr, Harry D., assignor.)
Potter, Russell R., New York, N. Y., assignor to Durable Brush Co., Inc. Handle attachment. 1,754,767; Apr. 15.
Powell, Thomas C., Chicago, Ill. Electric-current-outlet member. 1,754,646; Apr. 15.
Powers, John M., Valley Falls, N. Y. Rail chair. 1,754,725; Apr. 15.
Pratt Read Player Action Company. (See Fisher, Stanley L., assignor.)
Pratt & Whitney Aircraft Co., The. (See Mead, George J., assignor.)
Precision Metal Workers. (See Grunwald, Albert C., assignor.)
Prestinari, Eugen, Irvington, N. J., assignor to Gemex Company, Newark, N. J. Chain. Des. 80,965; Apr. 15.
Preston, Edward S., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Duplex electric waffle iron. 1,754,800; Apr. 15.
Pribil, Alexis R., Saginaw, Mich. Lubricator for trolley conveyers. 1,754,801; Apr. 15.
Pritz, Lawrence G. (See Baily, T. F., and Pritz.)
Proctor & Schwartz, Incorporated. (See Hurxthal, Alpheus O., assignor.)
Protzeller, Harry W., assignor to O. F. Jordan Company, East Chicago, Ind. Liquid-discharge nozzle. 1,754,768; Apr. 15.
Prutsman, Paul W., and V. C. Benjamin, Los Angeles, assignors to Contact Filtration Company, San Francisco, Calif. Tipping filter press. 1,754,401; Apr. 15.
Pudelko, Riccard. (See Fröhlich, H., and Pudelko.)
Pulverman, Philip E., assignor to The Visometer Corporation, New York, N. Y. Gauge. 1,755,163; Apr. 15.
Pyne, Herbert R. (See Ayres, I. H., and Pyne.)
Quigley, Joseph, Norris, Ill. Surveying rod. 1,754,334; Apr. 15.
Radio Corporation of America. (See Bast, Thomas A., assignor.)
Radio Corporation of America. (See Weinberger, Julius, assignor.)
Radio Patents Corporation. (See Gage, Edward G., assignor.)
Railway Locomotor Company. (See Faverty, Clyde B., assignor.)
Ralph, Fred C., and C. Outwalt, Erie, Pa. Bird trap. 1,754,864; Apr. 15.
Ransome Concrete Machinery Company. (See Bushnell, James E., assignor.)
Raster, Walther, assignor to Justrite Manufacturing Company, Chicago, Ill. Waste can. 1,754,802; Apr. 15.
Ray, Charles T. and D. McDonald, jr., Louisville, Ky., assignors to B. F. Avery & Sons, Louisville, Ky. Filing cabinet for phonograph records. 1,754,435; Apr. 15.
Ray, Charles T., and D. McDonald, jr., assignors to B. F. Avery & Sons, Louisville, Ky. Filing cabinet for phonograph records. 1,755,074; Apr. 15.
Ray, James L., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Bearing housing. 1,754,904; Apr. 15.
Raymond, Edward F., assignor to J. Grant, Los Angeles, Calif. Expanding reamer. 1,754,525; Apr. 15.
Raynes, Harry C., Portsmouth, N. H., assignor by mesne assignments, to Bemis Industries, Incorporated, Boston, Mass. Apparatus for producing fiber board. 1,754,370; Apr. 15.
Real, John, Sterling, Ill. Cigarette lighter. 1,755,131; Apr. 15.
Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 80,966; Apr. 15.
Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 80,967; Apr. 15.
Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 80,968; Apr. 15.
Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 80,969; Apr. 15.
Recchia, Orlando R., Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 80,970; Apr. 15.
Red Spot Electric Company. (See Staley, Miles E., assignor.)
Redington, John C., Geneva, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y. Valve bag and making the valve. 1,754,769; Apr. 15.
Reeves, Clifton, Trenton, N. J. Valve mechanism for internal-combustion engines. 1,754,647; Apr. 15.
Reisenfeld, Leon A., assignor of one-half to S. M. Illy, Cincinnati, Ohio. Detachable shoe heel. 1,754,402; Apr. 15.
Reliable Automatic Sprinkler Company, The. (See Griffiths, Francis H., assignor.)
Reliance Elevator Company. (See Anderson, C. A., and Osborn, assignors.)
Remington Accounting Machine Corporation. (See Hart, Frederick A., assignor.)
Remington, Joseph P., Philadelphia, Pa. Pressure gauge. 1,754,463; Apr. 15.
Remington, Joseph P., Philadelphia, Pa. Variable-speed gearing. 1,754,485; Apr. 15.
Remy, Wilhelm. (See Roitzheim, A., and Remy.)
Republic Iron and Steel Company. (See Elliott, Charles H., assignor.)
Reubush, Robert F., Philadelphia, Pa. Collapsible container. 1,754,408; Apr. 15.
Reuscher, Fritz. (See Balz, O., and Reuscher.)
Reynolds, Mary A. (See Anthony, Leon P., assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Rühlemann, Herbert, assignor.)
Rheinische Metallwaaren- und Maschinenfabrik. (See Stange, Louis, assignor.)
Ricardo, Harry R., London, England. Compressor for air or gas. 1,755,075; Apr. 15.
Richards, William F. (See Frohring, W. O., and Richards.)
Richardson, Hugh, Nelson, Mo. Bale tier. 1,754,572; Apr. 15.
Richter, George A., assignor to Brown Company, Berlin, N. H. Conditioning cellulosic fiber for the manufacture of rayon. 1,754,437; Apr. 15.
Ritchey, John P., Wichita, Kans. Spark plug. 1,754,648; Apr. 15.
Ritter Dental Manufacturing Company. (See Moore, Clarence W., assignor.)
Rittler, Ernest W., Quincy, Ill. Knife sheath. 1,754,526; Apr. 15.
Robeson-Rochester Corporation. (See Schott, Howard H., assignor.)
Roe, Mayo E., assignor to The Colson Company, Elyria, Ohio. Caster. 1,754,438; Apr. 15.
Rogers, Edbert, Flint, assignor to E. S. Evans & Company, Detroit, Mich. Shipping bracket for motor vehicles or the like. 1,754,803; Apr. 15.
Rogers, Joseph H., et al. (See MacLellan, William J., assignor.)
Roitzheim, Alexander, and W. Remy, Berlin-Oberschoneweide, Germany. Furnace for treating zinc ores and other zinciferous material. 1,755,076; Apr. 15.

Roosa, Herbert H., Lincoln, Nebr. Shoe-lasting device. 1,754,695; Apr. 15.
Rose, Arthur S. (See Cobb, P., and Rose.)
Rossi, Egidio, Albany, N. Y. Theftproof license-plate bracket. 1,754,804; Apr. 15.
Round, Albert W., assignor to The Turner & Seymour Manufacturing Co., Torrington, Conn. Egg beater or the like. 1,755,132; Apr. 15.
Rowe, William H., Los Angeles, Calif. Vending-machine cabinet. 1,754,527; Apr. 15.
Rowe, William W., Cincinnati, assignor to The Paper Service Company, Lockland, Ohio. Cover for annular objects. 1,755,133; Apr. 15.
Rowsey, Gentry L., Amarillo, Tex. Sweetening process. 1,754,649; Apr. 15.
Rubber Latex Research Corporation. (See Wescott, William B., assignor.)
Ruegsegger, Walter, Lugano, assignor to A. G. Prior Patentverwertungs-Gesellschaft, Glaris, Switzerland. Liquid-fuel burner. 1,754,573; Apr. 15.
Ruf, Herman P., New York, N. Y. Cord machine. 1,754,335; Apr. 15.
Rühlemann, Herbert, Sommerda, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Electric fuse for projectiles. 1,755,023; Apr. 15.
Rullancich, John J. O., New Kensington, Pa. Power-transmission apparatus. 1,754,528; Apr. 15.
Russell, Harvey A., Madera, Calif. Cord-severing implement. 1,754,241; Apr. 15.
Russell Manufacturing Company. (See Fisher, William C., assignor.)
Ruth, John F., St. Louis, Mo. Window. 1,754,439; Apr. 15.
Ruthven, Alfred L., Rochester, N. Y. Run-down and reset train control. 1,754,905; Apr. 15.
Ruthven, Alfred L., Rochester, N. Y. Simplex normal danger automanual train-control apparatus. 1,754,906; Apr. 15.
Ruthven, Alfred L., Rochester, N. Y. Continuous train control. 1,754,907; Apr. 15.
Ryan, Tubal C., San Diego, Calif. Aeroplane. 1,754,529; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,440; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,441; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,442; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,443; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,444; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,445; Apr. 15.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,754,446; Apr. 15.
Sack, Ernest Waverly, Iowa. Railway mower. 1,754,336; Apr. 15.
Saglioni, Romeo, Caltagirone, Italy. Change-speed gearing. 1,754,697; Apr. 15.
Saha, Aatto P., Brooklyn, N. Y. Incinerator. 1,755,027; Apr. 15.
St. John, George, jr., assignor to Wm. Demuth & Co., New York, N. Y. Decorating pipes. 1,754,289; Apr. 15.
St. Regis Paper Company. (See Bedington, John C., assignor.)
Sakler, George, New York, N. Y. Bowl or similar article. Des. 80,971; Apr. 15.
Sakler, George, New York, N. Y. Sherbet or similar article. Des. 80,972; Apr. 15.
Sallop, Harry A., New York, N. Y. Fastener. 1,754,770; Apr. 15.
Sallop, Harry A., New York, N. Y. Fastener. 1,754,772; Apr. 15.
Saltzman, Joseph G. (See Attickn, H. J., and Saltzman.)
Sanden, Arthur G., South Bellingham, Wash. Drafting instrument. 1,755,024; Apr. 15.
Sandford, Dent, Toledo, Ohio. Oil-pumping-prevention piston means. 1,754,404; Apr. 15.
Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,755,028; Apr. 15.
Santiago, James J., assignor to J. Grant, Los Angeles, Calif. Expanding reamer. 1,754,530; Apr. 15.
Sarafian, Haig, New York, N. Y., assignor to Novelite, Inc. Display device. 1,754,242; Apr. 15.
Sater, Lenore E., assignor to Iowa State College of Agricultural and Mechanical Arts, Ames, Iowa. Electric device for cooking food or the like. 1,754,574; Apr. 15.
Satow, Telkichi, Tokyo, Japan. Lacquer composition. 1,754,243; Apr. 15.
Sauls, John M., Seminole, Okla. Fishing tool. 1,754,696; Apr. 15.
Sauser S. A. (See Wydler, Hermann, assignor.)
Sawyer, Gregory E., Independence, Kans. Sucker-rod elevator. 1,755,134; Apr. 15.
Schade, Frank S., assignor to National Blank Book Company, Holyoke, Mass. Clip for book backs. 1,754,908; Apr. 15.
Scharpf, Arthur W., La Crosse, Wis. Vulcanizer. 1,754,575; Apr. 15.
Schellentrager, Eugene W., assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Door-locking mechanism for coke-quenching cars. 1,755,077; Apr. 15.
Schellentrager, Eugene W., Cleveland Heights, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Weighing indicator. 1,755,078; Apr. 15.
Schenuit, Frank G., Baltimore, Md. Tire. 1,754,836; Apr. 15.
Schickler, Albert C., assignor to E. E. Allyne, Cleveland, Ohio. Refrigerating system. 1,754,967; Apr. 15.
Schidrowitz, Philip, London, England, assignor of one-half to J. B. Crockett, Cambridge, Mass. Treating casein and product of said method. 1,754,651; Apr. 15.
Schiebeler, Carl, Berlin, Germany, assignor to General Electric Company. Electric motor control for reversing operations. 1,755,079; Apr. 15.
Schlatter, Eugene R., Little Falls, N. J., assignor to Dip-It Inc., New York, N. Y. Nonaqueous dye bath. 1,754,285; Apr. 15.
Schliephake, Otto. (See Griesbach, R., and Schliephake.)
Schlotshauer, Walter S., Douglas, Ariz. Wind motor. 1,754,698; Apr. 15.
Schmeck, Herbert P., assignor to Philadelphia Toboggan Company, Philadelphia, Pa. Track construction. 1,755,030; Apr. 15.
Schmidt, Gustave F., Hollywood, Calif. Gas generator and distributor. 1,754,773; Apr. 15.
Schmidt, Henri. (See Hénocque, V. A., and Schmidt.)
Schmitt, Joseph J., Algoma, Wis. Rotary-drive mechanism. 1,755,026; Apr. 15.
Schmuckler, Hans, Berlin, Germany. Welding table. 1,755,031; Apr. 15.
Schott, Howard H., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Waffle iron. 1,754,486; Apr. 15.
Schreiber, Emile, Atchison, Kans. Rack. 1,755,029; Apr. 15.
Schultz, Edward, Chicago, Ill., assignor to J. B. Ladd, Des Moines, Iowa. Caster. 1,754,576; Apr. 15.
Schünemann, Heinrich, Spandau, assignor to Messrs. Neuerburg'sche Verwaltungsgesellschaft m. b. H., Gereonhaus, Cologne, Germany. Spreading cut tobacco in cigarette-making machines. 1,755,080; Apr. 15.
Schünemann, Heinrich, Spandau, assignor to Messrs. Neuerburg'sche Verwaltungsgesellschaft m. b. H., Gereonhaus, Cologne, Germany. Loosening and spreading cut tobacco. 1,755,081; Apr. 15.
Schvacho, Stefan, Trencianske Teplice Lasne, Czechoslovakia. Socket for the combination X-ray radiators. 1,755,025; Apr. 15.
Schwalbe, Carl G., Eberswalde, and H. Wensl, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Process of rapidly bleaching vegetable fibers of any kind. 1,754,909; Apr. 15.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 80,973; Apr. 15.
Schweitzer, John J., Sandusky, Ohio. Bottle holding and dispensing cabinet. 1,754,487; Apr. 15.
Scullin, James B., Parkersburg, W. Va. Gutter cutter. 1,754,837; Apr. 15.
Seaholm, Nils, Mount Vernon, N. Y. Surgeon's knife. 1,754,650; Apr. 15.
Sebrell, Lorin B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Aldol condensation product and vulcanization of caoutchouc therewith. 1,754,865; Apr. 15.
Serna, Alex, Fordson, Mich. Aeroplane. 1,754,910; Apr. 15.
Service Company, The. (See Duerner, Lewis W., assignor.)
Shakeproof Lock Washer Company. (See Hosking, Richard T., assignor.)
Sharp, Louis E., Denver, Colo. Combined coal and gas furnace. 1,754,405; Apr. 15.
Sharp, William L., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. Des. 80,974; Apr. 15.
Sharples, Laurence P., Chester, assignor to The Sharples Specialty Company, Philadelphia, Pa. Separation of mixtures. 1,754,774; Apr. 15.
Sharples Specialty Company, The. (See Sharples, Laurence P., assignor.)
Sherman, Max C., and L. P. Hoff, Philadelphia, Pa., assignors to F. H. Dunbar, Cleveland, Ohio. Lining border. 1,754,775; Apr. 15.
Sherwood, Lewis R., and T. L. Little, Lakewood, Ohio. Double-compartment money till. 1,754,911; Apr. 15.
Shield, Paul S., assignor to Augustine Davis, jr., Cincinnati, Ohio. Selective valve-actuating means. 1,755,153; Apr. 15.
Shields, Henry B., Freeport, assignor to International Motor Company, New York, N. Y. Transmission brake. 1,754,286; Apr. 15.
Shipner, John R., assignor to The Cudahy Packing Company, Omaha, Nebr. Lard product and making the same. 1,755,135; Apr. 15.
Shoe Form Co., The. (See De Witt, William J., assignor.)
Shoemaker, John G., South St. Paul, Minn., assignor to A. C. Lawrence Leather Company, Boston, Mass. Dyeing shearlings and the like. 1,754,287; Apr. 15.
Shoemaker, William D., Drummond, and F. L. Young, Chevy Chase, Md.; said Young assignor to said Shoemaker. Tractor-equipment combination. 1,755,136; Apr. 15.
Showers, Lee, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company. Glass-melting pot. 1,754,838; Apr. 15.
Siebel, Peter, New York, N. Y. Apron. 1,754,581; Apr. 15.

Siegle, Wilhelm, Friedrichshafen, Germany, assignor to Goodyear Zeppelin Corporation, Akron, Ohio. Bulkhead for airships. 1,754,866; Apr. 15.
Sims, William J., Iver, England, assignor to General Electric Company, New York, N. Y. Water heater. 1,755,082; Apr. 15.
Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)
Skinner, Ralph L. (See Flogaus, Howard A., assignor.)
Skinner, Ralph L. (See Hill, George, assignor.)
Sladky, Alexander C. (See Sladky, Joseph and A. C.)
Sladky, Joseph and A. C., assignors to National Enameling & Stamping Co., Inc., Milwaukee, Wis. 1,754,805; Apr. 15.
Sleeman, Harold P., assignor to The R. Thomas & Sons Company, East Liverpool, Ohio. Insulator. 1,755,032; Apr. 15.
Slick, Edwin E., Pittsburgh, Pa. Continuous glass-melting pot. 1,754,912; Apr. 15.
Sloss, Stanley E., Louisville, Ky. Mantel. Des. 80,975; Apr. 15.
Smidth, F. L., and Company. (See Davis, Frederick W., assignor.)
Smith, A. O., Corporation. (See Andren, Birger T., assignor.)
Smith, Benjamin H., assignor to Michigan Wire Goods Company, Niles, Mich. Kitchen and camp implement. 1,754,968; Apr. 15.
Smith, Edmund S. (See Smith, Sheldon W. and E. S.)
Smith, Elmer L., assignor to Package Machinery Company, Springfield, Mass. Package and forming the same. 1,754,839; Apr. 15.
Smith, James W. (See Bilham, P. L., and Smith.)
Smith, Julius W., Madison, Minn. Root-canal filler. 1,754,577; Apr. 15.
Smith, Louis P., Ithaca, N. Y. Breakdown gun. 1,755,033; Apr. 15.
Smith, Nelson K., Los Angeles, assignor to Byron Jackson Co., West Berkeley, Calif. Well apparatus. 1,754,288; Apr. 15.
Smith, Sheldon W., and E. S. Smith, Springville, Iowa. Automatic weigher. 1,755,154; Apr. 15.
Smith, William C. (See Karbowski, V., and Smith.)
Snellings, Walter O., Kingsville, Tex. Razor-strop dressing. 1,754,406; Apr. 15.
Snyder, Jacob R., Cleveland, Ohio. Shock absorber. 1,754,488; Apr. 15.
Snyder, Louis P., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Loading machine. 1,754,699; Apr. 15.
Sohst, Otto, Hochst-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Azo dyes and producing the same. 1,754,652; Apr. 15.
Sornberger, Earl D., Harrisburg, Pa. Oil burner. 1,754,578; Apr. 15.
Speedaumat Manufacturing Company. (See Johnson, John E., assignor.)
Spencer, Richard V., Los Angeles, Calif. Pen and pencil clip. 1,754,582; Apr. 15.
Splittberger, Arthur, Baltimore, Md., assignor to General Electric switch. 1,755,083; Apr. 15.
Sponsler, Charles F., Philadelphia, Pa. Door stay. 1,754,579; Apr. 15.
Spoor, John R., Kalamazoo, Mich. Paper slitter. 1,754,969; Apr. 15.
Square D Company. (See Van Valkenburg, Hermon L., assignor.)
Stability Leather Goods Mfg. Co. (See Podmayer, Stephan, assignor.)
Stack, Emmet G., Marshfield, Oreg. Veneer stacker. 1,754,700; Apr. 15.
Stack, Emmet G., Marshfield, Oreg. Recede and set works. 1,754,701; Apr. 15.
Staley, Miles E., assignor to Red Spot Electric Company, Tacoma, Wash. Electric water heater. 1,754,580; Apr. 15.
Stampfly, Roy, Lansing, Mich. Bean rake and buncher. 1,754,337; Apr. 15.
Stanford, Forrest G., Los Angeles, and H. L. Glase, South Pasadena; said Glase assignor of entire right to G. E. Hyland, Los Angeles, Calif. Liquid display and dispensing apparatus. 1,754,581; Apr. 15.
Stange, Louis, Sommerda, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Automatic firearm. 1,755,034; Apr. 15.
Stanley, Stanley J., New York, N. Y. Closure for bottles or bags. 1,754,776; Apr. 15.
Star Chandelier Co. (See Hoch, George, assignor.)
State Electrotechnical Trust. (See Kanter, Abram S., assignor.)
Stearman Aircraft Company, The. (See Stearman, Lloyd, assignor.)
Stearman, Lloyd, assignor to The Stearman Aircraft Company, Inc., Wichita, Kans. Dolly. 1,754,407; Apr. 15.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerating machine. 1,755,084; Apr. 15.
Steins, Guillaume J. M. and R. H. M., Brussels, Belgium. Removing marks on wool. 1,754,338; Apr. 15.
Steins, Richard H. M. (See Steins, Guillaume J. M. and R. H. M.)
Stengel, Leonard A., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Synthetic methanol process. 1,754,871; Apr. 15.
Stephens, Joseph A., Vermilion, S. Dak. Signaling device. 1,755,137; Apr. 15.
Stephens, Thomas J., U. S. Army, Fort Monroe, Va. Predicting device. 1,754,653; Apr. 15.
Stevens, Byron, Oakland, Calif. Transmission. 1,754,654; Apr. 15.
Stevens, Elbridge W., Baltimore, Md. Process and apparatus for separating metallic values. 1,754,406; Apr. 15.
Stevens, Ferderick A., Providence, R. I. Ophthalmic mounting and method. 1,754,840; Apr. 15.
Stevens, Horace F., Kenilworth, N. J. Controlling means. 1,754,655; Apr. 15.
Stevenson, Holland N., Pelham, N. Y. Surgical instrument. 1,754,906; Apr. 15.
Stevenson, Thomas K., assignor to F. Van Blarcom, New York, N. Y. Screw-thread chaser. 1,754,489; Apr. 15.
Stewart, Carlton D., Berkeley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-valve pedestal. 1,754,244; Apr. 15.
Stewart, Robert S., Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y. Annealing pot. 1,754,372; Apr. 15.
Stewart, Robert S., Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y. Annealing pot. 1,754,373; Apr. 15.
Stewart, Robert S., Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y. Annealing pot. 1,754,374; Apr. 15.
Stewart, Samuel C., Hunting Creek, N. C. Spraying machine. 1,754,490; Apr. 15.
Stewart-Warner Corporation. (See Manning, Fred W., assignor.)
Stoddard, William B., Stamford, Conn., assignor to Pilot Laboratory, Inc., Arlington, N. J. Bleaching method and composition. 1,754,914; Apr. 15.
Stoddard, William B., Stamford, Conn., R. V. Townend and V. R. Kokatnur, Kearny, assignors to Pilot Laboratory, Inc., Arlington, N. J. Unsymmetrical organic peroxide bleaching agent and preparing the same. 1,754,913; Apr. 15.
Stokes, Antony S., Ipswich, England. Traveling crane. 1,755,138; Apr. 15.
Stollberg, Charles, assignor to American Can Company, New York, N. Y. Attachment of keys to cans. 1,754,447; Apr. 15.
Stone, Fred, Gladwater, Tex. Sunshade for vehicles. 1,754,777; Apr. 15.
Storrie, William, Providence, R. I., assignor to Apco Messberg Corporation, Attleboro, Mass. Windshield wiper. 1,755,155; Apr. 15.
Stout, Edward H. (See Weydell, Jarl M., assignor.)
Stout Manufacturing Company. (See Krause, Hermann, assignor.)
Stover, William H., Colwich, Kans. Agricultural implement. 1,755,085; Apr. 15.
Stoya, Paul, Kloster Wennigsen am Deister, Germany. Sliding catch. 1,754,867; Apr. 15.
Straayer, Martin J., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich. Wall-case construction. 1,754,245; Apr. 15.
Strathern, Alexander G., Glasgow, Scotland. Apparatus for sorting letters, packets, and other articles. 1,754,726; Apr. 15.
Strauss, Ferdinand, Inc. (See Conboy, Russell D., assignor.)
Strom, Rudolf, et al. (See Aleeth, S., and Neal, assignors.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Worthington, Everett, assignor.)
Strong, Peter, Winchendon, Mass. Wheeled toy. 1,755,085; Apr. 15.
Strosacker, Charles J., assignor to The Dow Chemical Company, Midland, Mich. Chlorinating unsaturated hydrocarbons. 1,754,656; Apr. 15.
Sturges, Arthur H., Omaha, Nebr. Fire escape of sliding type. 1,754,875; Apr. 15.
Surface Combustion Company, The. (See Winter, Murray, assignor.)
Sussman, Jacob H., Brooklyn, assignor of one-half to E. J. Herbert, New York, N. Y. Camera attachment for making artificial reflections. 1,755,036; Apr. 15.
Swaab, Henry B., Philadelphia, Pa. Sealing compound. 1,754,727; Apr. 15.
Swann, Richard E., Dallas, Tex. Combined ventilator and sun shield. 1,754,339; Apr. 15.
Swartwout Company, The. (See Barrett, Joseph M., assignor.)
Sweet, Cecil H., and E. F. Hurst, Brea, Calif. Device for replacing safety plugs of steam boilers. 1,754,657; Apr. 15.
Swern, William E., Kokomo, Ind., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-building machine. 1,754,583; Apr. 15.
Swift, George W., jr., assignor to George W. Swift, Jr., Inc., Bordentown, N. J. Web-cutting machine. 1,754,702; Apr. 15.
Swift, George W., Jr., Inc. (See Swift, George W., jr., assignor.)
Swindler, Edgar L., assignor of one-third to N. L. Swindler, San Antonio, Tex. Front-propelling rocking chair. 1,754,703; Apr. 15.
Swindler, Nettie L. (See Swindler, Edgar L., assignor.)
Swinney Brothers Limited. (See Thompson, Herbert A., assignor.)

Tacoma, Johannes, and C. de Vleeschouwer, Amsterdam, Netherlands. Display rack or tray. 1,754,970; Apr. 15.
Tamen, Tom, Lakota, Iowa. Feed grinder. 1,755,037; Apr. 15.
Tapp, Charles E., Barachois, Quebec, assignor of two-thirds to Paul Guertin & Cie., Quebec, Canada. Combination tumbler and bottle opener. 1,755,086; Apr. 15.
Tarrant, Walter G., et al. (See Bouillon, Emile, assignor.)
Taylor, Maurice C. (See MacMullin, R. B., and Taylor.)
Tebieff, Alexander N., Los Angeles, Calif. Sugar dispenser. Des. 80,976; Apr. 15.
Tellis, Vsevolod G., assignor to O. F. Jordan Company, East Chicago, Ind. Rail cleaner and guard for railroad spreaders. 1,754,778; Apr. 15.
Tevonian, Hagop P., Brooklyn, N. Y. Concealed hinge. 1,754,341; Apr. 15.
Tewelow, Bernard, Wilmington, Del., and S. Tewelow, Philadelphia, Pa. Safety razor. 1,754,807; Apr. 15.
Tewelow, Solomon. (See Tewelow, Bernard and S.)
Therrien, Adelard J., Lynnfield, Mass. Machine designed for the manufacture of flashings. 1,754,915; Apr. 15.
Thomas, Arthur C., assignor to Little Red Wagon Mfg. Co., Omaha, Nebr. Grading machine. 1,754,876; Apr. 15.
Thomas, R., & Sons Company, The. (See Sleeman, Harold P., assignor.)
Thomas, Thomas H. (See Farmer, C. C., and Thomas.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electro-pneumatic brake. 1,754,246; Apr. 15.
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Heat-treating apparatus for packaged goods. Re17,643; Apr. 15.
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Apparatus for sterilizing canned goods. 1,754,532; Apr. 15.
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Sterilizing canned goods. 1,754,584; Apr. 15.
Thompson, Herbert A., assignor of one-half to Swinney Brothers Limited, Morpeth, England. Filtering or like device. 1,754,728; Apr. 15.
Thompson, James S., New York, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del. Insert-holding device for casting molds. 1,754,340; Apr. 15.
Thompson, John W., Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Mechanical toy. 1,754,916; Apr. 15.
Thurston, Ernest B., assignor to The Haughton Elevator & Machine Company, Toledo, Ohio. Dynamo-electric control system. 1,754,779; Apr. 15.
Tide Water Oil Company. (See Haskell, Richard M., assignor.)
Time Systems Company. (See Fulton, Rolland S., assignor.)
Timken-Detroit Axle Company, The. (See Buckendale, Laurence R., assignor.)
Timken Roller Bearing Company, The. (See Klamp, P., and Woolley, assignors.)
Titlon, Joseph E., Kenmore, assignor to The Miller Rubber Co., Akron, Ohio. Making molds. 1,755,088; Apr. 15.
Tomita, Urasaburo, Astoria, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 80,977; Apr. 15.
Tomkinson, Charles C., Plainfield, N. J., assignor, by mesne assignments, to J. Edward Ogden Company, New York, N. Y. Door mechanism. 1,754,841; Apr. 15.
Tontrup, Robert H., jr. (See Brown, C. S., and Tontrup.)
Tower, Frank S., Boston, Mass. Bottled-water-dispensing device. 1,754,877; Apr. 15.
Townend, Robert V. (See Stoddard, W. B., Townend, and Kokatnur.)
Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Control system and apparatus. 1,755,189; Apr. 15.
Traube, Isidor, Berlin-Charlottenburg, Germany, assignor to The Naugatuck Chemical Company, Naugatuck, Conn. Concentrating rubber latex. 1,754,842; Apr. 15.
Traver, Harold G., Allentown, Pa., assignor to International Motor Company, New York, N. Y.. Heater valve. 1,754,729; Apr. 15.
Truesdell, Fred A., Cleveland, Ohio, assignor to Bendix Brake Company, Chicago, Ill. Multiple wheel brake for automotive vehicles. 1,754,780; Apr. 15.
Trullinger, Isaac V., Mulino, Oreg. Log turner for sawmills. 1,755,087; Apr. 15.
Trumbull, Harlan L. (See Geer, W. C., and Trumbull.)
Tubbs, W. F., Company. (See Gibson, Louis D., assignor.)
Tubiolo, Anthony, Columbus, Ohio. Swimming jacket. 1,754,342; Apr. 15.
Turner & Seymour Manufacturing Co., The. (See Round, Albert W., assignor.)
Turner Tanning Machinery Company, The. (See O'Donnell, John W., assignor.)
Uhlemann, Theodore F., Glen Morris, assignor to Nicholas Power Company, Inc., New York, N. Y. Lamp for projecting apparatus. 1,754,658; Apr. 15.
Underwood Elliott-Fisher Company. (See Oswald, Alfred E., assignor.)
Union Oil Company of California. (See Bushnell, Burdge O., assignor.)
Union Simplex Train Control Co. (See Miller, Monroe E., assignor.)
Union Steel Products Company. (See Hatch, Charles T., assignor.)
Union Switch & Signal Company, The. (See Allen, Walter P., assignor.)
Union Switch & Signal Company, The. (See Beall, Charles R., assignor.)
Union Switch & Signal Company, The. (See Cobourn, Delbert F., assignor.)
United-Carr Fastener Corporation. (See Anderson, Andrew G., assignor.)
United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Warren, Harold, assignor.)
United States Gypsum Co. (See Balduf, Bruno E., assignor.)
United States Gypsum Company. (See Brookby, Harry E., assignor.)
United States Gypsum Company. (See Knode, Oliver M., assignor.)
United States Radium Corporation. (See Dey, William H., assignor.)
Urbain Corporation. (See Urbain, Edouard, assignor.)
Urbain, Edouard, Paris, France, assignor to Urbain Corporation. Bone black of great decolorising power. 1,755,156; Apr. 15.
Urbana Coke Corporation. (See Parr, S. W., and Layng, assignors.)
Utz, John G., assignor to O. H. Utz, Detroit, Mich. Motor-vehicle construction. 1,754,291; Apr. 15.
Utz, Otilia H. (See Utz, John G., assignor.)
Vaaler, Jens, assignor to The Clemetsen Company, Chicago, Ill. Drawer slide. 1,754,448; Apr. 15.
Van Blarcom, Francis. (See Stevenson, Thomas K., assignor.)
Vandenhove, Harold M., New York, N. Y. Umbrella guard. 1,755,039; Apr. 15.
Van Dorn Electric Tool Company, The. (See Connell, Edwin L., assignor.)
Van Kirk, Lyndon J., Milwaukee, Wis. Concrete mixer and distributor. 1,754,533; Apr. 15.
Van Sickels, John H., Montreal, Quebec, Canada, assignor to British-American Tobacco Company Limited, New York, N. Y. Cigarette package. 1,754,730; Apr. 15.
Van Valkenburg, Hermon L., Milwaukee, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich. Electric switch. 1,754,585; Apr. 15.
Vare, Raymond L., Germantown, Pa. Metallic railway tie. 1,754,917; Apr. 15.
Vasey, Joseph N., Brookfield, Ill. Musical instrument. 1,754,290; Apr. 15.
Verdin, Kappes & Verdin Company, The. (See Kappes, William H., assignors.)
Vickrey, Benjamin D., Kosse, Tex. Spring jack. 1,755,088; Apr. 15.
Visitacion, Aniceto R., assignor of one-fourth to General W. Weigel and one-half to L. G. Weigel, New York, N. Y. Automatic cane-carried lighter. 1,754,808; Apr. 15.
Visometer Corporation, The. (See Pulverman, Philip E., assignor.)
Vivas, Fernando S., assignor to International Fireproof Products Corporation, New York, N. Y. Fireproof wall board and producing the same. 1,754,843; Apr. 15.
Vliet, Elmer B., Chicago, and E. H. Volwiler, Highland Park, assignors to Abbott Laboratories, North Chicago, Ill. Therapeutic tablet. 1,754,809; Apr. 15.
Völcker, Ernst, Bernburg, Germany. Combustion method for fuels. 1,754,586; Apr. 15.
Volwiler, Ernest H. (See Vliet, E. B., and Volwiler.)
Vought, Glen, Unadilla, N. Y. Plant support. 1,754,534; Apr. 15.
Wagner Manufacturing Company. (See Lang, Philip, assignor.)
Waigand, Charles F., assignor of one-half to F. E. Waigand. Chicago, Ill. Vaporising apparatus or appliance. 1,754,971; Apr. 15.
Waigand, Frances E. (See Waigand, Charles F., assignor.)
Waite, Edwin E., Framingham, assignor to Multibestos Company, Walpole, Mass. Making friction facings. 1,754,343; Apr. 15.
Waite, Harry C., deceased, Evanston, Ill., assignor of one-sixth to J. P. Arthur, one-sixth to R. A. Dunann, Oakland, one-sixth to C. F. Arthur, Los Angeles, Calif., one-tenth to G. I. Haight, Chicago, Ill., and M. Jacobson, Waukesha, Wis., and one-tenth to E. Welk, Oakland, Calif.: R. A. Dunann, administrator. Carburetor. 1,754,972; Apr. 15.
Walch, Herman, Caldwell, Kans. Condiment receptacle for knives, forks, and the like. 1,754,973; Apr. 15.
Wald, George, Belleville, Ill. System for transmission and reception of television. 1,754,491; Apr. 15.
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for grinding and/or polishing glass. 1,755,140; Apr. 15.
Walker, Albert J., Hamilton, Ontario, Canada. Headlight. 1,754,731; Apr. 15.
Walker, Clinton L., Piedmont, Calif. Crank shaft for V-type engines and balancing same. 1,754,918; Apr. 15.
Walker, Herbert W. (See Calcott, W. S., and Walker.)
Walker, Thomas H., Hollywood, Calif. Casement-sash hinge. 1,754,659; Apr. 15.
Wallace, Frank, Freeport, N. Y. Water-closet. 1,755,040; Apr. 15.

Waller, Edward A., Chicago, Ill. Printing press. 1,754,379; Apr. 15.
Waller, John A., assignor to Waller Manufacturing Corporation, Ltd., Los Angeles, Calif. Saw-filing device. 1,754,378; Apr. 15.
Waller Manufacturing Corporation. (See Waller, John A., assignor.)
Wallin, Van A., assignor to American Hair & Felt Company, Chicago, Ill. Felt manufacture. 1,754,919; Apr. 15.
Wappler Electric Company. (See Mutscheller, Arthur, assignor.)
Wappler Electric Company. (See Wappler, Reinhold H., assignor.)
Wappler, Reinhold H., New York, assignor to Wappler Electric Company, Inc., Long Island City, N. Y. X-ray protective device. 1,754,810; Apr. 15.
Ward, F. H., Co. (See Kinnie, W. Carl, assignor.)
Ward, George D., Kearny, and W. H. Chapman, Montclair, N. J., assignors to General Motors Corporation, Detroit, Mich. Making journal boxes. 1,754,920; Apr. 15.
Warfield, Fred C., Jackson, Mich. Headrest. 1,754,974; Apr. 15.
Warner Mfg. Co. (See Cadman, Addi B., assignor.)
Warren, Harold, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Scouring machine. 1,754,292; Apr. 15.
Warren, Simon L., Quincy, Mass. Upholstery attachment. 1,754,921; Apr. 15.
Washington, Bowden. (See Hoyt, H. L., jr., and Washington.)
Wasylenko, Eugene, Mount Carmel, Pa. Film developing and printing device. 1,755,041; Apr. 15.
Watt, John A., Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company. Apparatus for drawing sheet glass. 1,754,844; Apr. 15.
Wayne Pump Company, The. (See Deutsch, Leo, assignor.)
Weamer, Paul M., Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,979; Apr. 15.
Weamer Paul M., Gladwyne, P., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,980; Apr. 15.
Weamer, Paul M., Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,981; April 15.
Weamer, Paul M., Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,982; Apr. 15.
Weamer, Paul M., Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,983; Apr. 15.
Weamer, Paul M., Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,984; Apr. 15.
Weamer, Paul M., Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa. Toy figure. Des. 80,985; Apr. 15.
Webb, Ewing T., Chicago, Ill. Book protector. 1,754,811; Apr. 15.
Wehling, August, Cologne, Sulz, Germany. Device for indicating and controlling the speed of motor vehicles. 1,754,868; Apr. 15.
Weigel, General William, et al. (See Visitacion, Aniceto R., assignor.)
Weigel, Louis G., et al. (See Visitacion, Aniceto R., assignor.)
Weimer, Roy B., assignor of one-half to The Miller Rubber Company, Akron, Ohio. Toy. 1,755,161; Apr. 15.
Weinberger, Julius, New York, N. Y., assignor to Radio Corporation of America. Phonograph adjunct for radio-sets. 1,754,293; Apr. 15.
Weldon, Chichester P., assignor to The New Departure Manufacturing Company, Bristol, Conn. Making hubs. 1,754,922; Apr. 15.
Welk, Ebenezer, et al. (See Waite, Harry C., assignor.)
Wenzl, Hermann. (See Schwalbe, C. G., and Wenzl.)
Wescott, William B., Boston, Mass., assignor to Rubber Latex Research Corporation, Boston, Mass. Purifying and concentrating latex. 1,754,535; Apr. 15.
Wesix National Company. (See Kercher, Arthur J., assignor.)
Western Union Telegraph Company, The. (See Dirkes, R. F., and Wheeler, assignors.)
Western Union Telegraph Company, The. (See Janson, George W., assignor.)
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, C. C., and Landis, assignors.)
Westinghouse Air Brake Company, The. (See Farmer, C. C., and Thomas, assignors.)
Westinghouse Air Brake Company, The. (See Lobes, Pierre L., assignor.)
Westinghouse Air Brake Company, The. (See Stewart, Carlton D., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Wright, John B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Francis, Louis, assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkinson, Francis, assignor.)
Westinghouse Electric and Manufacturing Company. (See MacDonald, H. G., Mateer, and Burr, assignors.)
Westinghouse Electric & Manufacturing Company. (See Mateer, Jesse E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ray, James L., assignor.)
Wetzel, Peter A., Springfield, Ill. Filing-cabinet drawer. 1,754,492; Apr. 15.
Weydell, Jarl M., Indianapolis, Ind., assignor of one-half to E. B. Stout. Magnetic chuck. 1,754,587; Apr. 15.
Weylandt, Lawrence G., Calexico, Calif. Crank shaft and connecting rod for internal-expansion engines. 1,754,380; Apr. 15.
Wheeler, Evan R. (See Dirkes, R. F., and Wheeler.)
Whidden, Sam P., Bartow, Fla. Combined fuel basket, fire-tool support, and floor lamp. Des. 80,986; Apr. 15.
Whipple, Arden D., Oakland, assignor to C. M. Hutchinson, Piedmont, Calif. Valve cap. 1,754,660; Apr. 15.
White, Ambrose H., Bronxville, N. Y. Magazine grinder for wood pulp. 1,754,536; Apr. 15.
White, William E., jr. (See Crowell, M. E., and White.)
Whitlock, Ralph, Borger, Tex. Starting means for internal-combustion engines. 1,754,869; Apr. 15.
Wickes, John W., Tongaat, Natal, South Africa. Apparatus for the separation of finely-divided solids from liquids. 1,754,870; Apr. 15.
Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Interior-collar can. 1,754,449; Apr. 15.
Wiebe, Sigurd J. A., East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Dump grate. 1,754,247; Apr. 15.
Wiegand, Ernest H., Corvallis, Oreg., assignor, by mesne assignments, to The Citizens of the United States for their free use and enjoyment. Fruit-grading machine. 1,754,923; Apr. 15.
Wilbur, Lawrence S., Evanston, Ill. Splice bar or fish-plate. 1,754,248; Apr. 15.
Wilbur, Lawrence S., Evanston, Ill., assignor to Johns-Manville Corporation. Floor and laying the same. 1,754,537; Apr. 15.
Wilcox, John L., Seattle, Wash. Swimmer's device. 1,754,704; Apr. 15.
Wilder, Edward B., St. Louis, B. B. Baker, University City, and W. Wilder, assignors to Wilder Manufacturing Company, St. Louis, Mo. Toy glider. Des. 80,987; Apr. 15.
Wilder, Edward B., St. Louis, B. B. Baker, University City, and W. Wilder, assignors to Wilder Manufacturing Company, St. Louis, Mo. Toy glider. Des. 80,988; Apr. 15.
Wilder Manufacturing Company. (See Wilder, E. B., Baker, and Wilder, assignors.)
Wilder, Wentworth. (See Wilder, E. B., Baker, and Wilder.)
Wildman Mfg. Co. (See Howie, Kenneth, assignor.)
Wilhelm, Fritz, Berlin-Halensee, and K. J. Müller, Berlin-Grunewald, Germany; said Wilhelm assignor to said Müller. Tone amplifier for sound-reproducing apparatus. 1,754,538; Apr. 15.
Williams, Rolland G., assignor to Malleable Iron Fittings Company, Branford, Conn. Pole attachment for electric conductors. 1,754,924; Apr. 15.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Multi-unit tank car. 1,754,450; Apr. 15.
Wilt, Frank W., Portland, Ind. Double decked semi-trailer. 1,754,409; Apr. 15.
Wine, William E., Toledo, Ohio. Railway car. 1,754,705; Apr. 15.
Winkler, Richard. (See Hernes, F., and Winkler.)
Winter, Murray, Wrentham, Mass., assignor to The Surface Combustion Company, Inc., Toledo, Ohio. Spiral feed conveyer for heat-treating furnaces. 1,754,294; Apr. 15.
Winthrop Chemical Company. (See Hahl, Hans, assignor.)
Wirz, A. H., Inc. (See Barker, Edwin H., assignor.)
Wise, William P., assignor to Autolux Sign Company, Boston, Mass. Display sign. 1,754,871; Apr. 15.
Wixcel, Samuel M., Marcus, Iowa. Blade sharpener. 1,754,295; Apr. 15.
Wohl, Maurice J., Long Island City, N. Y. One-hand arc lamp. 1,754,249; Apr. 15.
Wolf, Charles, Worcester, Mass. Electrical-voltage regulator. 1,754,782; Apr. 15.
Wolfe, Allen W., Beechwood, W. Va. Stonecutter. 1,754,539; Apr. 15.
Wolfe, Mamie. (See Wolfe, Ralph H. and M.)
Wolfe, Ralph H. and M., Kansas City, assignors of one-half to J. M. Lloyd, Independence, Mo. Uniform. 1,754,381; Apr. 15.
Wolverine Supply & Manufacturing Company. (See Gorlup, Frank J., assignor.)
Wonda Phonograph Co. (See Kohn, Samuel, assignor.)
Wood, Charles H., Oakland, Calif. Window-shade fixture. 1,754,661; Apr. 15.
Woodard, William C., et al. (See Farnum, Dwight, assignor.)
Woodbury, Ray, and R. L. Martin, Portland, Oreg., and G. B. Doane, jr., Summit, N. J. Method and apparatus for removing rails from railroad tracks. 1,754,662; Apr. 15.

Woodruff, Graham C., Bronxville, N. Y., assignor to The L. C. L. Corporation. Interchangeable-container freight car. 1,754,451; Apr. 15.
Woolley, John J. (See Klamp, P., and Woolley.)
Worthington, Everett, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Radiocabinet or similar article. Des. 80,978; Apr. 15.
Worthington Pump and Machinery Corporation. (See Barnaby, James C., assignor.)
Worthington Pump and Machinery Corporation. (See Diserens, Paul, assignor.)
Worthington Pump and Machinery Corporation. (See Feldbush, Harry A., assignor.)
Worthington Pump and Machinery Corporation. (See Lucke, Charles E., assignor.)
Woythal, John M., Chicago, Ill. Scissors. 1,755,141; Apr. 15.
Wright, Bruce R., Windsor, Vt. Identification plate. 1,754,588; Apr. 15.
Wright, John B., Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Feed-valve device. 1,754,250; Apr. 15.
Wrought Iron & Art Glass Fixture Co. (See Cricchio, Paul, assignor.)
Wydler, Hermann, Bern, assignor to the firm Sauser S. A. Seleure, Switzerland. Liquid-measuring device provided with a continuous counter. 1,754,589; Apr. 15.
Wype, Robert T., Pittsburgh, Pa. Chimney hopper for incinerators. 1,755,089; Apr. 15.
Xardell, Charles A., assignor to The Bossert Corporation, Utica, N. Y. Handle for manually-propelled implements. 1,754,706; Apr. 15.
Yates, John W., assignor, by mesne assignments, to General Laboratories, Inc., Madison, Wis. Sterilization. 1,754,251; Apr. 15.
Yohe, Lester N., New Oxford, Pa. Aeroplane-glider fuselage. 1,754,733; Apr. 15.
Young, Frank L. (See Shoemaker, W. D., and Young.)
Young, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,754,452; Apr. 15.
Zacharias, Fred, assignor to himself and A. C. Eggerts, Mineola, N. Y. Baker's pan. 1,754,812; Apr. 15.
Zimmerman, John W., assignor to Barnhart Brothers & Spindler, Chicago, Ill. Font of type. Des. 80,989; Apr. 15.
Zoller, Emil J., Brooklyn, N. Y. Tin container with friction top and hinge cover. 1,755,042; Apr. 15.
Zouri Drawn Metals Company. (See Nelson, Charles G., assignor.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Absorption system, Stabilizing. J. A. Campbell. 1,754,606; Apr. 15.
Accelerator for dry-pipe valves. F. H. Griffiths. 1,754,511; Apr. 15.
Acid and making same, New derivative of 2.3-hydroxynaphthoic. B. Heyn. 1,754,390; Apr. 15.
Addressing machine, Distributive printing. H. E. Hubbard. 1,754,861; Apr. 15.
Advertising device, Outdoor. M. F. Phillips. 1,754,369; Apr. 15.
Aeroplane. W. E. Burks. 1,754,737; Apr. 15.
Aeroplane. I. E. Hanson. 1,754,715. Apr. 15.
Aeroplane. I. Neustatter. 1,754,397; Apr. 15.
Aeroplane. G. Ploger. 1,755,022; Apr. 15.
Aeroplane. H. Podolsky. 1,754,571; Apr. 15.
Aeroplane. T. C. Ryan. 1,754,529; Apr. 15.
Aeroplane. A. Serna. 1,754,910; Apr. 15.
Aeroplane glider fuselage. L. N. Yohe. 1,754,733; Apr. 15.
Agitator. J. E. Bond. 1,754,255; Apr. 15.
Air bags from deterioration in service, Protecting the interior surfaces of. G. D. Mallory. 1,755,069; Apr. 15.
Air cleaner or filter for carburetors. W. V. Ludlam. 1,755,011; Apr. 15.
Aircraft. I. Covino. 1,754,817; Apr. 15.
Aircraft, Instrument panel for. C. E. Johnson. 1,754,954; Apr. 15.
Air-directing device. T. Neilson. 1,754,961; Apr. 15.
Airplane construction, Juvenile. H. L. Kraeft. 1,754,480; Apr. 15.
Airplane control stick. O. H. Madorie. 1,755,124; Apr. 15.
Airplane, Vertical-rising. A. G. Bergman. 1,754,977; Apr. 15.
Airplanes, Sustaining and stabilizing attachment for. H. P. Finley. 1,755,058; Apr. 15.
Airship. W. E. Dörr. 1,754,883; Apr. 15.
Airships, Bulkhead for. W. Siegle. 1,754,866; Apr. 15.
Alarm: *See*—
Burglar alarm.
Albumin and producing it, Soluble. E. M. Meyer. 1,754,521; Apr. 15.
Alcoholic solution, Noncorrosive. W. S. Calcott and H. W. Walker. 1,754,457; Apr. 15.
Aldol condensation product and vulcanization of caoutchoue therewith. L. B. Sebrell. 1,754,365; Apr. 15.
Alkyloiphenols, Dialkylamino-alkylethers of. H. Hahl. 1,754,677; Apr. 15.
Alkylphenols, New dialkylamino-alkylethers of. H. Hahl. 1,754,678; Apr. 15.
Alloys, Purifying light metal. J. A. Gann. 1,754,788; Apr. 15.
Aluminum halide from a double halide of aluminum and ammonium, Producing anhydrous. C. G. Miner. 1,754,797; Apr. 15.
Ammonia, Catalytic oxidation of. O. Bals and F. Reuscher. 1,754,845; Apr. 15.
Ammunition, Fixed. L. L. Driggs and B. Faber, jr. 1,754,986; Apr. 15.
Amplifier, Sound. C. C. Flynn. 1,754,506; Apr. 15.
Anchor and pipe sleeve, Combined. S. C. Appel. 1,755,092; Apr. 15.
Anchor, Bolt. H. W. Pleister and J. Karitzky. 1,754,383; Apr. 15.
Anchor, Rail. A. F. Fifield. 1,754,420–1; Apr. 15.
Animal carrier. A. S. Clayton. 1,754,610; Apr. 15.
Annealing pot. M. W. Gleixner. 1,754,423; Apr. 15.
Annealing pot. R. S. Stewart. 1,754,372–4; Apr. 15.
Antenna selector and safety switch, Combined. S. Alseth and V. L. Neal. 1,755,043; Apr. 15.
Anticathode for discharge tubes. G. Holst, G. B. Jonas, and A. Bouwers. 1,754,716; Apr. 15.
Antirattle spring device. H. E. Blomgren. 1,754,847; Apr. 15.
Apparel suspension. A. H. Moginie. 1,754,862; Apr. 15.
Apron. P. Siebel. 1,754,581; Apr. 15.
Auditoriums, Acoustical study and correction of. R. F. Norris. 1,754,352; Apr. 15.
Automobile frame. B. T. Andren. 1,754,927; Apr. 15.
Automobile tie-down device. E. S. Evans. 1,754,819–21; Apr. 15.
Automobile wheel. N. Benford. 1,754,598; Apr. 15.
Baker's pan. F. Zacharias. 1,754,812; Apr. 15.
Bale tier. H. Richardson. 1,754,572; Apr. 15.
Bar: *See*—
Bumper bar. Draw bar.
Bar or fishplate, Splice. L. S. Wilbur. 1,754,248; Apr. 15.
Basket, fire-tool support, and floor lamp, Combined fuel. S. P. Whidden. Des. 80,986; Apr. 15.
Batch box. E. P. Forrestel. 1,754,550; Apr. 15.
Batch box and grappling means therefor. E. P. Forrestel. 1,754,620; Apr. 15.
Bath: *See*—
Dye bath.
Bath apparatus, Liquid-. C. B. Cook. 1,754,612; Apr. 15.
Bearing. A. Kingsbury. 1,754,324–5; Apr. 15.
Bearing housing. J. L. Ray. 1,754,904; Apr. 15.
Bearing mounting. F. G. Hughes. 1,754,892; Apr. 15.
Bearing tool, Load-. T. F. Connors. 1,754,415; Apr. 15.
Bearing, Vacuum-cleaner brush-. J. M. Darst. 1,755,054; Apr. 15.
Beating apparatus. C. H. Kircaf. 1,754,519; Apr. 15.
Beer wort for further treatment, and for the filtration of beer and other foaming liquids, Process and apparatus for the filtration of. L. Nathan. 1,754,432; Apr. 15.
Belt plane. W. Hagstrom. 1,754,564; Apr. 15.
Bending apparatus. B. J. McCarthy. 1,754,635; Apr. 15.
Bending machine. J. R. Kerlin. 1,754,470; Apr. 15.
Bin. C. S. Johnson. 1,754,516; Apr. 15.
Binder, Loose-leaf. C. C. Andrews. 1,754,664; Apr. 15.
Binder, Loose-leaf. N. C. De Loss. 1,754,418; Apr. 15.
Binder, Loose-leaf. E. L. Krag. 1,754,471; Apr. 15.
Binder, Ski. L. D. Gibson. 1,754,422; Apr. 15.
Bird trap. F. C. Ralph and C. Outwalt. 1,754,864; Apr. 15.
Bit: *See*—
Drill bit.
Bit lifter. C. S. Miller. 1,754,692; Apr. 15.
Bleaching method and composition. W. B. Stoddard. 1,754,914; Apr. 15.
Block: *See*—
Curb block.
Block-ejecting machine. J. C. Pelton. 1,754,484; Apr. 15.
Board: *See*—
Fiber board. Wall board.
Boat, Motor. E. Cumbo. 1,754,983; Apr. 15.
Boat-unloading mechanism. E. M. Graves. 1,754,824; Apr. 15.
Body bolster. M. H. Martin. 1,754,634; Apr. 15.
Boiler: *See*—
Locomotive boiler. Steam boiler.
Bone black of great decolorising power. E. Urbain. 1,755,156; Apr. 15.
Book protector. E. T. Webb. 1,754,811; Apr. 15.
Bottle, Paper. A. Moore. 1,754,644; Apr. 15.
Bottle-washing machine. H. Krause. 1,754,755; Apr. 15.
Bowl or similar article. G. Sakier. Des. 80,971; Apr. 15.
Box: *See*—
Batch box.
Boxes, Making journal. G. D. Ward and W. H. Chapman. 1,754,920; Apr. 15.
Boxes, Method of and apparatus for straightening annealing. A. W. Earl. 1,754,616; Apr. 15.
Bracelet lock. D. F. Matusbenko. 1,754,959; Apr. 15.
Bracket: *See*—
License-plate bracket. Staging bracket.
Radiator bracket.
Bracket. L. Gundrup. 1,754,714; Apr. 15.
Bracket for motor vehicles or the like, Shipping. E. Rogers. 1,754,803; Apr. 15.
Bracket or similar article, Wall. O. Hoffmann. Des. 80,952; Apr. 15.
Brake: *See*—
Electropneumatic brake. Vacuum brake.
Hydraulic brake. Vehicle brake.
Transmission brake.
Brake-actuating mechanism. F. H. Hall. 1,754,887; Apr. 15.
Brake-control mechanism. R. S. Gans. 1,754,854; Apr. 15.
Brake for automotive vehicles, Multiple wheel. F. A. Truesdell. 1,754,780; Apr. 15.
Brake mechanism. W. J. Geeson. 1,754,855; Apr. 15.
Brakes, friction clutches, and the like, Friction block for. H. C. Georgi. 1,754,676; Apr. 15.
Breeches, Lady's. K. J. Bernstein. 1,754,595; Apr. 15.
Broadcast distribution, Polyphase. E. E. Clement. 1,754,882; Apr. 15.
Broom protector. J. S. Chester. 1,755,052; Apr. 15.
Bucket, Grease. C. G. Butler. 1,754,874; Apr. 15.
Buckle, Harness. A. L. Garris. 1,754,813; Apr. 15.
Buckle, Shoe. O. R. Recchia. Des. 80,966–70; Apr. 15.
Bumper, Automobile. D. Capobianco. 1,754,934; Apr. 15.
Bumper bar. T. Jackson. 1,755,007; Apr. 15.

Burglar alarm. W. Burrell. 1,754,305; Apr. 15.
Burner: *See*—
Furnace gas burner. Liquid-fuel burner.
Gas burner. Oil burner.
Hydrocarbon burner.
Bushing. C. V. Gantt. 1,754,997; Apr. 15.
Busses, Upper-deck seating arrangement for. C. T. Hansen. 1,754,465; Apr. 15.
Butter cutter. G. Frings. 1,754,885; Apr. 15.
Cabinet, Bottle holding and dispensing. J. J. Schweitzer. 1,754,487; Apr. 15.
Cabinet drawer, Filing-. P. A. Wetzel. 1,754,492; Apr. 15.
Cabinet for ice cream and similar substances, Cooling. P. L. Bilham and J. W. Smith. 1,755,147; Apr. 15.
Cabinet for phonograph records, Filing. C. T. Ray and D. McDonald, jr. 1,754,435; Apr. 15.
Cabinet for phonograph records, Filing. C. T. Ray and D. McDonald, jr. 1,755,074; Apr. 15.
Cabinet, Towel-dispensing. J. M. Hothersall. 1,754,467; Apr. 15.
Cabinet, Vending. W. C. Kinnie. 1,754,518; Apr. 15.
Cabinet, Vending-machine. W. H. Rowe. 1,754,527; Apr. 15.
Calcining apparatus. F. Gelstharp. 1,754,854; Apr. 15.
Calcium hypochlorite, Manufacture of. R. B. MacMullin and J. A. Guyer. 1,754,473; Apr. 15.
Calibrating instruments. L. E. Hildebrand. 1,755,117; Apr. 15.
Camera. L. S. Gordon. 1,754,356–7; Apr. 15.
Camera and paper-supplying mechanism, combination printing. S. M. Hershberg. 1,754,890; Apr. 15.
Camera attachment. L. F. Douglass. 1,755,105; Apr. 15.
Camera attachment for making artificial reflections. J. H. Sussman. 1,755,036; Apr. 15.
Cameras, Color-screen accessory for. F. H. Owens. 1,754,282; Apr. 15.
Can: *See*—
Collar can. Waste can.
Oil can.
Can-end drier, Rotary. H. J. Paynter. 1,754,483; Apr. 15.
Can opener. J. H. Grube. 1,754,552; Apr. 15.
Can opener. A. C. Grunwald. 1,754,315; Apr. 15.
Can spout, Salt-. D. G. Magill. 1,754,476; Apr. 15.
Can-testing machine. A. Johnson. 1,754,321; Apr. 15.
Canned goods, Apparatus for sterilizing. A. R. Thompson. 1,754,532; Apr. 15.
Canned goods, Sterilizing. A. R. Thompson. 1,754,584; Apr. 15.
Capping machine, Bottle-. R. N. Cundall. 1,754,461; Apr. 15.
Car and steam locomotive, Combination railway. C. B. Faverty. Des. 80,992; Apr. 15.
Car, Interchangeable-container freight. G. C. Woodruff. 1,754,451; Apr. 15.
Car, Multiunit tank. V. Willoughby. 1,754,450; Apr. 15.
Car, Railway. W. E. Wine. 1,754,705; Apr. 15.
Cars, Apparatus for inverting mine. J. T. Morris. 1,754,395; Apr. 15.
Carbon impurities from tantalum, Removing. C. W. Balke. 1,754,453; Apr. 15.
Carburetor. H. C. Waite. 1,754,972; Apr. 15.
Card for type fonts, Indicator. T. Crosby. 1,754,545; Apr. 15.
Carrier: *See*—
Animal carrier. Tool carrier.
Carrier to be attached to automobiles or other vehicles, Luggage or step. J. B. Hall. 1,754,555; Apr. 15.
Carrying case. A. A. Adams. 1,754,663; Apr. 15.
Cartridge, Photographic flash-light. L. L. Driggs, jr., and H. B. Faber. 1,754,987; Apr. 15.
Case: *See*—
Carrying case. Jewel case.
Display case. Vanity case.
Casein and product of said method, Treating. P. Schidrowitz. 1,754,651; Apr. 15.
Casing, Vibrating-machine. J. H. and L. E. Holm. Des. 80,955; Apr. 15.
Caster. M. E. Roe. 1,754,438; Apr. 15.
Caster. E. Schults. 1,754,576; Apr. 15.
Cellulose materials, Dyeing regenerated. H. Jordan. 1,755,119; Apr. 15.
Cellulosic fiber for the manufacture of rayon, Conditioning. G. A. Richter. 1,754,437; Apr. 15.
Cement spreader for laying linoleum. L. W. Duerner. 1,754,547; Apr. 15.
Centrifugal drier. A. W. Altorfer. 1,754,252; Apr. 15.
Chain. E. Prestinari. Des. 80,965; Apr. 15.
Chair: *See*—
Rail chair. Rocking-chair.
Check and tag, Combination. C. S. Peters. 1,755,128; Apr. 15.
Check protector, Pocket. R. G. Clyne. 1,754,611; Apr. 15.
Chin rest and muting device, Combined. C. Clark. 1,754,544; Apr. 15.
Chuck, Magnetic. J. M. Weydell. 1,754,587; Apr. 15.
Cigar stand, Collapsible. S. Phillips. 1,754,766; Apr. 15.
Cigarette-making machines, Spreading cut tobacco in. H. Schünemann. 1,755,080; Apr. 15.
Cigarette package. J. H. Van Sickels. 1,754,780; Apr. 15.
Cinematographs, Color-projection apparatus for. R. Killick. 1,754,323; Apr. 15.
Circuit controller. A. J. Kercher. 1,754,561; Apr. 15.
Circuit-controlling appliance, Electric. J. Sachs. 1,754,440–6; Apr. 15.
Circuits, Locating faults on messenger-call. G. W. Janson. 1,754,628; Apr. 15.
Clamp for automobile bumpers. W. G. Pancoast. 1,754,964; Apr. 15.
Clip: *See*—
Frame clip. Pen and pencil clip.
Clip for book backs. F. S. Schade. 1,754,908; Apr. 15.
Clock case, Savings-bank. H. B. Colvin. Des. 80,991; Apr. 15.
Clock movement, Secondary. R. S. Fulton. 1,754,508; Apr. 15.
Closet: *See*—
Water-closet.
Closure for bottles or bags. S. J. Stanley. 1,754,776; Apr. 15.
Closure, Ice-cream-cabinet. F. R. Jefferys. 1,754,793; Apr. 15.
Closure, Jar. W. E. Brown. 1,754,542; Apr. 15.
Clutch. W. H. Kappes. 1,754,794; Apr. 15.
Clutch-protecting device. C. M. Hibbets. 1,755,002; Apr. 15.
Coal and gas furnace, Combined. L. E. Sharp. 1,754,405; Apr. 15.
Coal and other solid carbonaceous substances, Retort for the distillation of. C. H. Parker. 1,754,693; Apr. 15.
Coal, Coking. S. W. Parr and T. E. Layng. 1,754,765; Apr. 15.
Coat. D. Long. Des. 80,960; Apr. 15.
Coin-box device. E. W. Niles and W. H. Edwards. 1,754,238; Apr. 15.
Collar can, Interior. M. E. Widell. 1,754,449; Apr. 15.
Commutator noises in radios, Preventing. E. G. Gage. 1,754,622; Apr. 15.
Composite glass, Apparatus for making. J. H. Fox and W. Owen. 1,754,853; Apr. 15.
Compressor, Fluid. C. C. Farmer. 1,754,231; Apr. 15.
Compressor for air or gas. H. R. Ricardo. 1,755,075; Apr. 15.
Concrete elevating and distributing apparatus. J. E. Bushnell. 1,754,815; Apr. 15.
Concrete form and structure. F. J. Mead. 1,754,638; Apr. 15.
Concrete mixer and distributor. L. J. Van Kirk. 1,754,533; Apr. 15.
Condenser, Electrical. P. R. Coursey. 1,754,265; Apr. 15.
Condenser, Electrical. W. Dubilier. 1,754,268; Apr. 15.
Condenser for internal-combustion engines. I. H. Ayres and H. R. Pyne. 1,754,298–9; Apr. 15.
Condenser, Variable. L. A. Hazeltine. 1,755,115; Apr. 15.
Condenser, Variable. W. S. Kellogg. 1,754,894; Apr. 15.
Conduits, Bender for thin-wall. R. H. Henderson. 1,754,317; Apr. 15.
Connecter and lightning arrester, Combination. L. S. Brach. 1,754,709; Apr. 15.
Container. H. M. Nicholls. 1,754,482; Apr. 15.
Container. J. M. Young. 1,754,452; Apr. 15.
Container closure. E. Müller. 1,755,015; Apr. 15.
Container, Collapsible. R. F. Reubush. 1,754,403; Apr. 15.
Container with friction top and hinge cover, Tin. E. J. Zoller. 1,755,042; Apr. 15.
Container with lid for semifluid and thick substances, Metal. A. Nerre. 1,755,017; Apr. 15.
Control apparatus, Combustion-. T. A. Peebles. 1,754,965; Apr. 15.
Control device for aircraft, Automatic. C. Groh. 1,754,790; Apr. 15.
Control device for mixing machines. A. H. Plate. 1,754,284; Apr. 15.
Control means for superregenerative receiver. R. A. Clausnitzer. 1,754,264; Apr. 15.
Control system and apparatus. G. R. Townsend. 1,755,139; Apr. 15.
Controlling means. H. F. Stevens. 1,754,655; Apr. 15.
Conveyer. H. Miner and D. Grant. 1,754,798; Apr. 15.
Cooler: *See*—
Liquid cooler.
Cooling system. B. H. Britt. 1,754,257; Apr. 15.
Cooling system. E. S. MacPherson. 1,754,689; Apr. 15.
Coop or crate, Poultry. C. T. Hatch. 1,754,947; Apr. 15.
Cord machine. H. P. Ruf. 1,754,835; Apr. 15.
Cord-severing implement. H. A. Russell. 1,754,241; Apr. 15.
Corner-bar construction for store fronts and the like. C. G. Nelson. 1,754,760; Apr. 15.
Counter, Post-card and envelope. C. G. Corning. 1,755,053; Apr. 15.
Coupling. E. Deierlein. 1,755,104; Apr. 15.
Coupling. E. C. Meyer. 1,754,639; Apr. 15.
Cover feed. G. C. Erb. 1,754,463; Apr. 15.
Cover for annular objects. W. W. Rowe. 1,755,133; Apr. 15.
Crane, Traveling. A. S. Stokes. 1,755,138; Apr. 15.
Crank shaft and connecting rod for internal-expansion engines. L. G. Weylandt. 1,754,380; Apr. 15.
Crusher: *See*—
Gyratory crusher.
Cultivator attachment for tractors. T. R. Cummings. 1,754,614; Apr. 15.
Cup-dispensing mechanism. H. M. Henderson. 1,754,271; Apr. 15.
Curb block. T. Flifet and T. B. Allardice. 1,754,939; Apr. 15.
Current-limiting means. F. W. Gay. 1,755,111; Apr. 15.

Cushioning and shock-absorbing device, Vehicle. W. C. Broadwell. 1,754,258; Apr. 15.
Cuspidor, Fountain. C. W. Moore. 1,754,757; Apr. 15.
Cutter: *See*—
Butter cutter. Stalk cutter.
Gutter cutter.
Cutter head. W. G. Bean and U. M. Cool. 1,754,930; Apr. 15.
Cutting and wrapping machine. E. C. Hegg. 1,755,061; Apr. 15.
Cutting machine, Web-. G. W. Swift, jr. 1,754,702; Apr. 15.
Cylinder head for internal-combustion engines, Antidetonation. A. Moore. 1,754,643; Apr. 15.
Dehairing machine. J. W. Kohlhepp. 1,754,562; Apr. 15.
Delivery mechanism for newspaper-stuffing machines. S. Halvorsen. 1,755,150; Apr. 15.
Delivery mechanism for newspaper stuffing or similar machines. S. Halvorsen. 1,755,149; Apr. 15.
Desk, Typewriter. J. Rodenstein. 1,754,303; Apr. 15.
Directional recording, Method of and apparatus for. O. R. Marsh. 1,754,520; Apr. 15.
Dish, Serving. J. H. Bens. 1,754,594; Apr. 15.
Dishwasher. M. G. Clark and W. G. Fording. 1,755,101; Apr. 15.
Disk for washing machines, Agitating. H. L. Ogg. 1,755,071; Apr. 15.
Disks, Manufacturing grinding and polishing. E. Becker. 1,755,158; Apr. 15.
Dispenser, Sugar. A. N. Tebieff. Des. 80,976; Apr. 15.
Dispensing tube. E. H. Barker. 1,754,496; Apr. 15.
Display and dispensing apparatus, Liquid. F. G. Stanford and H. L. Glase. 1,754,531; Apr. 15.
Display case. B. R. Gay. 1,754,711; Apr. 15.
Display device. H. Sarafian. 1,754,242; Apr. 15.
Display rack, Fruit-. A. J. Gearitta. 1,754,998; Apr. 15.
Doll. M. M. Ivey. 1,754,558; Apr. 15.
Doll, Novelty. Z. B. Fitchner. Des. 80,939; Apr. 15.
Dolly. L. Stearman. 1,754,407; Apr. 15.
Door for vehicles. E. C. G. England. 1,754,226; Apr. 15.
Door lock. C. P. Nelson. 1,754,896; Apr. 15.
Door-locking mechanism for coke-quenching cars. E. W. Schellentrager. 1,755,077; Apr. 15.
Door mechanism. C. C. Tomkinson. 1,754,841; Apr. 15.
Door-operating mechanism. P. Lang. 1,754,563; Apr. 15.
Door stay. C. F. Sponsler. 1,754,579; Apr. 15.
Drafting instrument. A. G. Sanden. 1,755,024; Apr. 15.
Drainage control. J. M. Barrett. 1,754,781; Apr. 15.
Drawbar, Shock-insulator. R. F. Cowell. 1,754,309; Apr. 15.
Drawer slide. J. Vaaler. 1,754,448; Apr. 15.
Dredger, Suction. F. Ewig. 1,754,746; Apr. 15.
Dress. D. Long. Des. 80,957; Apr. 15.
Dress. D. Long. Des. 80,959; Apr. 15.
Drier: *See*—
Can-end drier. Garment drier.
Centrifugal drier. Loop drier.
Filter-cake loop drier. Spray drier.
Drier for dough products. F. Censi. 1,754,262; Apr. 15.
Drill: *See*—
Electric drill. Roller cutter drill.
Grain drill.
Drill bit. J. Dahl. 1,754,671; Apr. 15.
Drive mechanism, Rotary. J. J. Schmitt. 1,755,026; Apr. 15.
Driving construction, Automotive. L. R. Buckendale. 1,754,604; Apr. 15.
Driving mechanism, Variable. J. L. Perkins and H. D. Croft. 1,755,127; Apr. 15.
Drum, Collapsible. V. Karbowski and W. C. Smith. 1,754,278; Apr. 15.
Dye bath, Nonaqueous. E. R. Schlatter. 1,754,285; Apr. 15.
Dyes and producing the same, Azo. O. Sohst. 1,754,652; Apr. 15.
Egg beater or the like. A. W. Round. 1,755,182; Apr. 15.
Egg-case filler. M. M. Benoit. 1,754,541; Apr. 15.
Electric conductors, Pole attachment for. R. G. Williams. 1,754,924; Apr. 15.
Electric control for reducing valves, etc. C. D. Peterson. 1,755,020; Apr. 15.
Electric control system, Dynamo-. E. B. Thurston. 1,754,779; Apr. 15.
Electric-current-outlet member. T. C. Powell. 1,754,646; Apr. 15.
Electric device for cooking food or the like. L. E. Sater. 1,754,574; Apr. 15.
Electric drill. E. L. Connell. 1,754,222; Apr. 15.
Electric fitting. G. W. Goodridge. 1,754,999; Apr. 15.
Electric furnace. R. M. Cherry. 1,755,051; Apr. 15.
Electric insect destroyer. A. J. Frost. 1,754,748; Apr. 15.
Electric machine, Dynamo-. J. M. Pestarini. 1,755,073; Apr. 15.
Electric motor. A. E. Oswald. 1,754,645; Apr. 15.
Electric switch. C. A. Anderson and J. C. Osborn. 1,754,494; Apr. 15.
Electric switch. G. Brüblmann. 1,754,349; Apr. 15.
Electric switch. A. Splittberger. 1,755,083; Apr. 15.
Electric switch. H. L. Van Valkenburg. 1,754,585; Apr. 15.
Electric winding with variable pitch. A. S. Kanter. 1,754,685; Apr. 15.
Electrical apparatus, System of protection and control for. T. A. E. Belt. 1,755,095; Apr. 15.
Electrical connecting device for electrical connecting systems. S. W. Borden. 1,754,601; Apr. 15.
Electrical connecting system. S. W. Borden. 1,754,600; Apr. 15.
Electrical switch, Automatic. R. V. Owen. 1,754,898; Apr. 15.
Electropneumatic brake. T. H. Thomas. 1,754,246; Apr. 15.
Elevator: *See*—
Sucker-rod elevator.
Engine: *See*—
Internal-combustion engine. Pumping engine.
Engine-mounting means. W. C. Martin. 1,755,126; Apr. 15.
Engine, particularly applicable to combined internal-combustion and steam engines, Steam. E. Brillié. 1,754,602; Apr. 15.
Engines and balancing same, Crank shaft for V-type. C. L. Walker. 1,754,918; Apr. 15.
Engines, Cooling system for internal-combustion. I. H. Ayres. 1,754,301; Apr. 15.
Engines, Steam-cooling system for internal-combustion. I. H. Ayres. 1,754,300; Apr. 15.
Engraving machine. L. K. Braren. 1,754,256; Apr. 15.
Envelope-stuffing machine, Automatic. J. H. Marsh. 1,754,831; Apr. 15.
Evaporating or degasifying apparatus. C. E. Lucke. 1,754,722; Apr. 15.
Excavator. G. H. Greiman. 1,754,551; Apr. 15.
Excavator and conveyer, Pneumatic. H. A. Frohm. 1,754,507; Apr. 15.
Expansion joint, Preformed. A. C. Fischer. 1,755,107; Apr. 15.
Explosive and solvent therefor. T. L. Davis. 1,754,417; Apr. 15.
Extract, Manufacturing a vegetable alimentary. J. Perino. 1,754,434; Apr. 15.
Extractor: *See*—
Fruit-juice extractor. Screw extractor.
Eyepiece for gas protective masks. A. B. Dräger. 1,754,419; Apr. 15.
Facings, Making friction. E. E. Waite. 1,754,343; Apr. 15.
Fastener. D. Dyresen. 1,754,672; Apr. 15.
Fastener. H. A. Sallop. 1,754,770; Apr. 15.
Fastener. H. A. Sallop. 1,754,772; Apr. 15.
Fastener unit, Separable. A. G. Anderson. 1,755,157; Apr. 15.
Fastening device with instantaneous jamming. H. L. Dardelet. 1,754,938; Apr. 15.
Faucet fixture, Mixing-. N. August, jr. 1,754,217; Apr. 15.
Feeding apparatus for confectionery machines. A. L. Bausman. 1,754,846; Apr. 15.
Feeding mechanism. A. Latham. 1,754,275; Apr. 15.
Felt manufacture. V. A. Wallin. 1,754,910; Apr. 15.
Fence post, Wire-holding. G. Gartner. 1,754,712; Apr. 15.
Fiber board, Apparatus for producing. H. C. Raynes. 1,754,370; Apr. 15.
Fiber board, Composite. M. Borsodi. 1,754,784; Apr. 15.
Filling mold. A. Kadow. 1,754,469; Apr. 15.
Film developing and printing device. E. Wasylenko. 1,755,041; Apr. 15.
Films, Device for drying cellulose. H. Krull and H. Dethloff. 1,755,066; Apr. 15.
Filter. A. Hopkins. 1,754,320; Apr. 15.
Filter-cake loop drier. A. O. Hurxthal. 1,755,005; Apr. 15.
Filter for gas burners, Air. G. L. Grayson and C. E. Knight. 1,754,751; Apr. 15.
Filter press, Tipping. P. W. Prutzman and V. C. Benjamin. 1,754,401; Apr. 15.
Filtering or like device. H. A. Thompson. 1,754,728; Apr. 15.
Filtration apparatus. C. T. Cabrera. 1,754,667; Apr. 15.
Firearm, Automatic. L. Stange. 1,755,034; Apr 15.
Fire-bucket tank. W. F. Conran. 1,754,980; Apr. 15.
Fire escape of sliding type. A. H. Sturges. 1,754,875; Apr. 15.
Fishing rod. R. H. Cowdery. Des. 80,990; Apr. 15.
Fishing rod and making same. R. H. Cowdery and W. D. Grimes. 1,755,159; Apr. 15.
Flake-forming method. J. T. Cox. 1,754,266; Apr. 15.
Flash light. J. P. Pickett. 1,754,570; Apr. 15.
Floor and laying the same. L. S. Wilbur. 1,754,537; Apr. 15.
Flooring and the like and method of making. H. C. Avery. 1,754,253; Apr. 15.
Flower and making same, Artificial. J. B. Crockett. 1,754,670; Apr. 15.
Fluid sealing means. J. A. Olson. 1,754,764; Apr. 15.
Fluid separator. R. W. Andrews. 1,754,479; Apr. 15.
Fluid separator. H. E. Boyrie. 1,754,480; Apr. 15.
Flushing tank, Revolving. M. Esnard. 1,754,990; Apr. 15.
Foam production. H. Heuser. 1,754,825; Apr. 15.
Folding seat. E. G. Covell. 1,754,501; Apr. 15.
Font of type. J. W. Zimmerman. Des. 80,989; Apr. 15.
Frame: *See*—
Automobile frame. Plate frame.
Frame clip. H. L. Budd. 1,754,814; Apr. 15.
Frame for weaving, Tube. J. J. Brogan. 1,754,498; Apr. 15.
Frame setting, Adjustable. C. G. Nelson. 1,754,762; Apr. 15.
Frames, Crossbar for automobile. B. T. Andren. 1,754,926; Apr. 15.

Friction element. W. C. Fisher. 1,754,283; Apr. 15.
Fruit-grading machine. E. H. Wiegand. 1,754,923; Apr. 15.
Fruit-juice extractor, Citrus. G. B. Baker. 1,754,591; Apr. 15.
Fuel burning, Apparatus for pulverized. E. Lundgren. 1,754,277; Apr. 15.
Fuel combustion, Fluid-. P. R. Delling. 1,754,546; Apr. 15.
Fuels, Combustion method for. E. Völcker. 1,754,586; Apr. 15.
Fur stretcher. O. Hollywood. 1,755,118; Apr. 15.
Furnace: *See*—
Coal and gas furnace. Electric furnace.
Furnace. H. B. Markham. 1,754,237; Apr. 15.
Furnace. A. N. Otis. 1,755,072; Apr. 15.
Furnace and control therefor. E. McLean. 1,754,279; Apr. 15.
Furnace for treating zinc ores and other zinciferous material. A. Roitzheim and W. Remy. 1,755,076; Apr. 15.
Furnace gas burner. C. J. Brown. 1,754,603; Apr. 15.
Furnace wall. J. C. Hobbs. 1,754,514; Apr. 15.
Furnaces, Spiral feed conveyer for heat-treating. M. Winter. 1,754,294; Apr. 15.
Fuse. N. C. Husted. 1,754,683; Apr. 15.
Fuse for projectiles, Electric. H. Rühlemann. 1,755,023; Apr. 15.
Game. E. F. Calle. 1,754,738; Apr. 15.
Game, Combined table and amusement. F. Hernes and R. Winkler. 1,755,062; Apr. 15.
Garment drier. J. W. McCormick. 1,755,013; Apr. 15.
Gas burner. P. S. Harper. 1,754,388; Apr. 15.
Gas generator and distributor. G. F. Schmidt. 1,754,773; Apr. 15.
Gas heater. W. L. Sharp. Des. 80,974; Apr. 15.
Gate: *See*—
Railroad gate.
Gauge: *See*—
Pressure gauge.
Gauge. P. E. Pulverman. 1,755,163; Apr. 15.
Gauge for sheet slitters and the like. P. Kruse. 1,754,955; Apr. 15.
Gear. H. D. Croft. 1,755,102; Apr. 15.
Gear, Fishing. G. Newell. 1,754,567; Apr. 15.
Gear mechanism. A. M. Dellinger. 1,754,267; Apr. 15.
Gear mechanism, Steering-. E. S. MacPherson. 1,754,632; Apr. 15.
Gearing, Change-speed. R. Saglioni. 1,754,697; Apr. 15.
Gearing for washing machines and the like, Operating. I. H. Dunn. 1,754,548; Apr. 15.
Gearing, Variable-speed. J. P. Remington. 1,754,485; Apr. 15.
Generator: *See*—
Wave generator.
Glass, Apparatus for drawing sheet. J. A. Watt. 1,754,844; Apr. 15.
Glass, Apparatus for grinding and/or polishing. F. B. Waldron. 1,755,140; Apr. 15.
Glass for drink mixers, Combined mixing and serving. J. H. Karlson. 1,754,560; Apr. 15.
Grading machine. A. C. Thomas. 1,754,376; Apr. 15.
Grain drill. W. Boucher. 1,754,497; Apr. 15.
Granular or pulverized material, Apparatus for delivering regular quantities of. F. W. Davis. 1,755,103; Apr. 15.
Grate, Dump. S. J. A. Wiebe. 1,754,247; Apr. 15.
Gravity and relative apparatus, Utilization of the force of. G. Pascucci. 1,754,399; Apr. 15.
Grease-gun connection. R. B. McGahey. 1,754,723; Apr. 15.
Grinder, Feed. T. Tamen. 1,755,037; Apr. 15.
Grinder for wood pulp, Magazine. A. H. White. 1,754,536; Apr. 15.
Grinding machines, Work holder for. E. F. Longenback. 1,754,898; Apr. 15.
Grinding wheels, Dressing device for. P. Klamp and J. J. Woolley. 1,754,630; Apr. 15.
Goggles. H. Neuwirth. 1,754,694; Apr. 15.
Governor, Compressor-unloader. E. S. Aikman. 1,754,218; Apr. 15.
Guide clip for cutter bars. T. J. Barlow. 1,754,302; Apr. 15.
Guide, Sash. W. S. Hamm. 1,754,513; Apr. 15.
Gun, Breakdown. L. P. Smith. 1,755,033; Apr. 15.
Gun with tube recoil, Field. V. Hammar. 1,754,943; Apr. 15.
Gutter cutter. J. B. Scullin. 1,754,837; Apr. 15.
Gyratory crusher. J. E. Kennedy. 1,754,895; Apr. 15.
Handle: *See*—
Knife handle.
Handle attachment. R. R. Potter. 1,754,767; Apr. 15.
Handle for manually-propelled implements. C. A. Xardell. 1,754,706; Apr. 15.
Handling machine, Hay and grain. J. L. Murphy. 1,755,016; Apr. 15.
Hanger for articles to be plated. L. Lichtman. 1,755,122–3; Apr. 15.
Hanger for outlet boxes, etc., Bar. M. M. Clayton. 1,754,849; Apr. 15.
Harvester binder. N. R. Nelson. 1,754,962; Apr. 15.
Headlight. A. J. Walker. 1,754,731; Apr. 15.
Headrest. F. C. Warfield. 1,754,974; Apr. 15.
Heat-exchange apparatus. A. D. Harrison. 1,754,857; Apr. 15.
Heat-treating apparatus for packaged goods. A. R. Thompson. Re17,643; Apr. 15.
Heater: *See*—
Radiant heater. Water heater.
Heater. J. H. Cohen. 1,754,669; Apr. 15.
Heating and ventilating unit, Low-down. M. J. Callahan. 1,754,260; Apr. 15.
Heating apparatus. H. R. and G. A. Humphrey. 1,754,952; Apr. 15.
Heating unit. A. B. Modine. 1,754,642; Apr. 15.
Heel, Detachable shoe. L. A. Reisenfeld. 1,754,402; Apr. 15.
Heel, Shoe. J. F. McNamara. 1,754,290; Apr. 15.
Hinge, Casement-sash. T. H. Walker. 1,754,659; Apr. 15.
Hinge, Concealed. H. P. Tevosian. 1,754,241; Apr. 15.
Hitch, Safety. G. Den Besten. 1,754,412; Apr. 15.
Hoisting mechanism. G. R. Blackwood. 1,754,873; Apr. 15.
Holder, Blotter. F. C. Partell. 1,754,868; Apr. 15.
Holder for lighting fixtures or similar articles, Globe. G. Hoch. Des. 80,953; Apr. 15.
Holder, Golf-ball. O. A. Anderson. 1,754,495; Apr. 15.
Holder, Ice-pick. J. H. Ernst, jr. 1,754,673; Apr. 15.
Holder, Paintbrush. W. Lissy. 1,754,366; Apr. 15.
Holder, Paper-bag. C. A. Leonard. 1,754,327; Apr. 15.
Hose knuckle. W. J. MacLellan. 1,754,687; Apr. 15.
House: *See*—
Portable house.
Hydrant, Water. H. C. Ellenberger. 1,754,310; Apr. 15.
Hub-cap wrench. R. L. Hughens. 1,754,717; Apr. 15.
Hubs, Making. C. P. Weldon. 1,754,922; Apr. 15.
Hydraulic brake. M. E. Crowell and W. E. White, jr. 1,754,223; Apr. 15.
Hydroairplane. J. E. Browne. 1,754,220; Apr. 15.
Hydrocarbon burner. A. H. Kelsall. 1,754,828; Apr. 15.
Hydrocarbons, Chlorinating unsaturated. C. J. Strosacker. 1,754,656; Apr. 15.
Hypochlorite compositions, Production of new. R. B. MacMullin. 1,754,475; Apr. 15.
Hypochlorite compositions, Production of new. R. B. MacMullin and M. C. Taylor. 1,754,474; Apr. 15.
Identification plate. B. R. Wright. 1,754,588; Apr. 15.
Illumination and magnifying means for motor-heat indicators. H. H. Boyce. 1,754,455; Apr. 15.
Implement, Agricultural. W. H. Stover. 1,755,085; Apr. 15.
Incinerator. A. P. Saha. 1,755,027; Apr. 15.
Incinerators, Chimney hopper for. R. T. Wyse. 1,755,089; Apr. 15.
Indicating and controlling the speed of motor vehicles, Device for. A. Wehling. 1,754,868; Apr. 15.
Indicator: *See*—
Weighing indicator.
Indicator and recorder. W. K. Dwelle. 1,754,503; Apr. 15.
Indicator for automobile lubrication. S. Brown. 1,754,383; Apr. 15.
Induction meter. H. Fröhlich and R. Pudelko. 1,755,110; Apr. 15.
Inflatable bag for use in tire building. R. C. Brice. 1,755,048; Apr. 15.
Inner tubes and the like, Method of and apparatus for the manufacture of. H. A. Denmire. 1,754,502; Apr. 15.
Insulating construction, Sound-. B. E. Balduf. 1,754,411; Apr. 15.
Insulator. H. P. Sleeman. 1,755,032; Apr. 15.
Interlocking structures, Constructing. T. Carrosza. 1,754,261; Apr. 15.
Internal-combustion engine. J. C. Barnaby. 1,754,735; Apr. 15.
Internal-combustion engine. R. F. Brown. 1,754,785; Apr. 15.
Internal-combustion motor. L. B. Harvey. 1,754,389; Apr. 15.
Internal-combustion engine. G. Hill. 1,754,791; Apr. 15.
Internal-combustion engine. C. H. Muckenhirn. 1,754,758; Apr. 15.
Internal-combustion engine, Variable-compression. S. S. Allwill. 1,754,410; Apr. 15.
Iron: *See*—
Waffle iron.
Jack: *See*—
Pump jack. Spring jack.
Jacket, Swimming. A. Tubiolo. 1,754,242; Apr. 15.
Jar or similar receptacle. N. R. Andrews. Des. 80,933; Apr. 15.
Jewel case. J. B. Holden. 1,755,063; Apr. 15.
Joint: *See*—
Expansion joint. Tank expansion joint.
Splice joint.
Journal-box Mounting. G. E. Edmunds. 1,754,744; Apr. 15.
Ketone-formaldehyde condensation products, Polymerization of. C. E. Burke. 1,755,099; Apr. 15.
Key to cams, Attachment of. C. Stollberg. 1,754,447; Apr. 15.
Kiln, Drying. J. F. Cobb. 1,754,351; Apr. 15.
Kitchen and camp implement. B. H. Smith. 1,754,968; Apr. 15.
Knife, Surgeon's. N. Seaholm. 1,754,650; Apr. 15.
Knife handle. P. D. Callum. 1,754,548; Apr. 15.
Knitting machine, Full-fashioned-. K. Howie. 1,754,680–2; Apr. 15.
Lace edging, Embroidered. H. Schwarber. Des. 80,973; Apr. 15.

Lacquer composition. T. Satow. 1,754,243; Apr. 15.
Ladder for floating roof tanks. B. O. Bushnell. 1,754,384; Apr. 15.
Lamp. A. Di Lucci. Des. 80,938; Apr. 15.
Lamp, Electric. C. W. Logan. Des. 80,962; Apr. 15.
Lamp for gasoline pumps, Revolving. E. Keema. 1,754,829; Apr. 15.
Lamp for projecting apparatus. T. F. Uhlemann. 1,754,658; Apr. 15.
Lamp guard and mounting therefor. H. Brachtl. 1,754,931; Apr. 15.
Lamp housings, Mounting of. H. J. Atticks and J. G. Saltzman. 1,754,929; Apr. 15.
Lamp, One-hand arc. M. J. Wobi. 1,754,249; Apr. 15.
Lamp or article of similar nature, Table. P. Cricchio. Des. 80,936; Apr. 15.
Lamp or similar article. C. A. Bachman. Des. 80,934; Apr. 15.
Lamps, Mounting for incandescent. J. Bergmans and U. N. de Wit. 1,755,096; Apr. 15.
Lard product and making the same. J. R. Shipner. 1,755,135; Apr. 15.
Last-assembling machine. P. Fuller. 1,754,269; Apr. 15.
Latch for doors, Safety. O. E. Magnuson. 1,754,958; Apr. 15.
Latch mechanism. G. Halinka. 1,754,889; Apr. 15.
Latex, Purifying and concentrating. W. B. Wescott. 1,754,535; Apr. 15.
Letters, packets, and other articles, Apparatus for sorting. A. G. Strathern. 1,754,726; Apr. 15.
License-plate bracket, Theftproof. E. Rossi. 1,754,804; Apr. 15.
Lifter: *See*—
Bit lifter.
Light: *See*—
Flash light.
Light. G. Graff. 1,754,855; Apr. 15.
Light-coloring screen. A. M. Knauber. 1,754,896; Apr. 15.
Lighter. J. Holtzman. 1,754,319; Apr. 15.
Lighter, Automatic cane-carried. A. R. Visitacion. 1,754,808; Apr. 15.
Lighter, Cigarette. J. Real. 1,755,131; Apr. 15.
Lighting and ignition switch. B. N. Jacobi. 1,754,754; Apr. 15.
Lining border. M. C. Sherman and L. P. Hoff. 1,754,775; Apr. 15.
Liquid cooler. T. S. Merrylees. 1,754,756; Apr. 15.
Liquid dispenser, Sterilizable surgical. C. S. Brown and R. H. Tontrup, jr. 1,754,259; Apr. 15.
Liquid-fuel burner. W. Ruegsegger. 1,754,573; Apr. 15.
Loading machine. N. D. Levin. 1,754,276; Apr. 15.
Loading machine. L. F. Snyder. 1,754,699; Apr. 15.
Lock: *See*—
Bracelet lock. Door lock.
Lock device for dial telephones. R. B. Poliakoff and E. I. Landress. 1,754,400; Apr. 15.
Locking attachment for vault doors. A. Evensen. 1,754,386; Apr. 15.
Locking means, Car-door-. A. Campbell. 1,754,221; Apr. 15.
Locking washers, Material strip for use in the manufacture of. R. T. Hosking. 1,754,466; Apr. 15.
Locomotive boiler. A. W. Nelson. 1,754,761; Apr. 15.
Locomotive-control apparatus, Run-down and reset. M. E. Miller. 1,754,901; Apr. 15.
Log turner for sawmills. I. V. Trullinger. 1,755,087; Apr. 15.
Loom shedding-mechanism control. R. Crompton. 1,754,613; Apr. 15.
Looms, Warp stop mechanism for. C. D. Brown. 1,755,097; Apr. 15.
Loop drier. A. O. Hurzthal. 1,755,006; Apr. 15.
Loud-speaker. C. R. Albertus. 1,754,928; Apr. 15.
Loud-speaker, Telephonic. F. W. Lanchester. 1,754,860; Apr. 15.
Lubricating system. G. D. Jones. 1,754,859; Apr. 15.
Lubricator for trolley conveyers. A. R. Pribil. 1,754,801; Apr. 15.
Lure, Fish. C. A. Braidwood. 1,755,047; Apr. 15.
Machine designed for the manufacture of flashings. A. J. Therrien. 1,754,915; Apr. 15.
Machine for casting stereotype printing plates. M. W. Brueshaber. 1,755,098; Apr. 15.
Machine for making dental rolls. C. Fortier. 1,755,109; Apr. 15.
Machine for reproducing and transmitting pictures. M. L. D. McFarlane and H. G. Bartholomew. 1,754,688; Apr. 15.
Machine for setting threaded devices. W. D. Buss. 1,754,978; Apr. 15.
Machine for working leather and other sheet material. J. W. O'Donnell. 1,754,281; Apr. 15.
Mantel. S. E. Sloss. Des. 80,975; Apr. 15.
Massage device. L. Arranz. 1,755,144; Apr. 15.
Material for building and other purposes. L. S. Baier. 1,754,707; Apr. 15.
Materials, Apparatus for treating. L. S. Pfouts. 1,755,021; Apr. 15.
Matrix former and drier, Combined. A. W. Cochran and H. W. Dewey. 1,754,460; Apr. 15.
Measuring device, Oil-dispensing. B. Phillips. 1,754,966; Apr. 15.
Measuring device provided with continuous counter, Liquid-. H. Wydler. 1,754,589; Apr. 15.
Measuring instrument, Electrical. C. L. Lipman. 1,755,009; Apr. 15.
Melting pot, Continuous glass-. E. E. Slick. 1,754,912; Apr. 15.
Melting pot, Glass-. L. Showers. 1,754,838; Apr. 15.
Metal, Bearing. P. Kemp. 1,754,304; Apr. 15.
Metal, Rolling strip. C. H. Elliott. 1,754,745; Apr. 15.
Metallic values, Process and apparatus for separating. E. W. Stevens. 1,754,408; Apr. 15.
Metals such as those having a base of magnesium, aluminum, calcium, etc., Protecting easily-oxidizable. G. Michel. 1,754,581; Apr. 15.
Meter: *See*—
Induction meter.
Meter for compressed gas. E. P. B. Eckardt. 1,755,106; Apr. 15.
Mill: *See*—
Roll mill.
Mining machine. H. A. Buehler. 1,754,304; Apr. 15.
Mining machine. F. A. Lindgren. 1,754,328–9; Apr. 15.
Mirror or similar article. E. B. Langedorf. Des. 80,956; Apr. 15.
Mold: *See*—
Filling mold.
Molding strip. I. A. Baum. 1,754,154; Apr. 15.
Molds, Insert-holding device for casting. J. S. Thompson. 1,754,340; Apr. 15.
Molds, Making. J. E. Tition. 1,755,038; Apr. 15.
Mop, Brush wringer. S. A. Haines. 1,754,856; Apr. 15.
Mortar and pestle. F. G. Jellison. 1,754,468; Apr. 15.
Mortise-cutting device. H. Almind. 1,754,925; Apr. 15.
Motor: *See*—
Electric motor. Wind motor.
Internal-combustion motor.
Motor control for reversing operations, Electric. C. Schiebeler. 1,755,079; Apr. 15.
Motor-control system. M. Latour. 1,755,121; Apr. 15.
Motor-moistening device. W. E. De Weese. 1,755,056; Apr. 15.
Mounting, Wheel. F. R. Klaus. 1,754,631; Apr. 15.
Mower, Railway. E. Sack. 1,754,336; Apr. 15.
Mower rollers, Pressure-exerting attachment for lawn. P. Cobb and A. S. Rose. 1,754,741; Apr. 15.
Musical instrument. F. C. Parker, jr. 1,755,019; Apr. 15.
Musical instrument. J. N. Vasey. 1,754,290; Apr. 15.
Musical instrument, Stringed. R. W. Claiborne. 1,754,263; Apr. 15.
Neckband construction. A. A. Brownstein. 1,754,499; Apr. 15.
Needle, Plug-inserting. J. W. Hodgson. 1,754,556; Apr. 15.
Nozzle, Injection. A. E. L. Chorlton. 1,754,936; Apr. 15.
Nozzle, Liquid-discharge. H. W. Protzeller. 1,754,768; Apr. 15.
Nozzle protector for fire boxes, Blower-. F. A. Barbey. 1,754,813; Apr. 15.
Oil burner. E. D. Sornberger. 1,754,578; Apr. 15.
Oil can. R. L. Cary. 1,754,668; Apr. 15.
Oil can. H. H. Moreton. 1,754,367; Apr. 15.
Oil can. H. H. Moreton. 1,754,894; Apr. 15.
Oil-pumping-prevention piston means. D. Sandford. 1,754,404; Apr. 15.
Oil separator. H. H. Gracey. 1,754,789; Apr. 15.
Oil, Treating fuel. A. H. Ackerman. 1,754,297; Apr. 15.
Oils, Deodorizing fats and fatty. H. Bollmann. 1,754,598; Apr. 15.
Oils, mineral oils, and the like, Bleaching fatty. H. Bollmann. 1,754,599; Apr. 15.
Oils of internal-combustion engines, Process of and apparatus for the continuous refining of lubricating. F. W. Manning. Re17,644; Apr. 15.
Oils through pipe lines, Enhancing the flow of. A. H. Ackerman. 1,754,296; Apr. 15.
Ophthalmic mounting and method. F. A. Stevens. 1,754,840; Apr. 15.
Outlining implement for surface ornamenting processes. J. L. Litomy. 1,754,830; Apr. 15.
Package and forming the same. E. L. Smith. 1,754,839; Apr. 15.
Packaging mechanism. G. I. Hohl. 1,754,818; Apr. 15.
Pad: *See*—
Therapeutic pad.
Pail. C. B. Cadwallader. 1,754,456; Apr. 15.
Pan: *See*—
Baker's pan.
Paper container for frozen confections. G. L. Porter. 1,754,524; Apr. 15.
Paper-cutting device. J. E. Johnson. 1,754,862; Apr. 15.
Paper slitter. J. R. Spoor. 1,754,969; Apr. 15.
Partitions, Built-up stud for hollow. W. M. Goldsmith. 1,754,942; Apr. 15.
Pattern and guide strip. G. W. Harley. 1,755,001; Apr. 15.
Pediform articles, Apparatus for use in trimming hollow. W. J. De Witt. 1,754,818; Apr. 15.
Pen and pencil clip. R. V. Spencer. 1,754,582; Apr. 15.
Percolator, Coffee. R. W. Hagel. 1,754,553; Apr. 15.
Peroxide bleaching agent and preparing the same, Unsymmetrical organic. W. B. Stoddard, R. V. Townsend, and V. R. Kokatnur. 1,754,913; Apr. 15.
Phonogram carriers suitable to be played off, Directly producing. A. Chmielowski. 1,754,935; Apr. 15.
Phonograph stop. A. V. Bodine. 1,754,454; Apr. 15.
Phonograph turntable. L. Bonsieur. 1,754,416; Apr. 15.

Photographs, Making composite. R. J. Pomeroy. 1,755,129–30; Apr. 15.
Piano, Player. F. T. Kent. 1,754,391; Apr. 15.
Pillow, Sofa. B. Comstock. 1,754,937; Apr. 15.
Pin: *See*—
Wrist pin.
Pipes, Decorating. G. St. John, jr. 1,754,289; Apr. 15.
Piston. R. Hildebrandt. 1,754,891; Apr. 15.
Piston and packing ring. C. C. Farmer and W. C. Landis. 1,754,230; Apr. 15.
Piston packing. P. L. Lobez. 1,754,286; Apr. 15.
Piston ring. P. J. Henning and W. H. Judy. 1,754,625; Apr. 15.
Piston rings, Device for expanding and mounting. K. J. Bailey. 1,755,044; Apr. 15.
Pitter, Fruit. A. E. McCollom. 1,754,636; Apr. 15.
Plaster-wall-board construction. O. M. Knode. 1,754,429; Apr. 15.
Plate frame. W. H. Dey. 1,754,851; Apr. 15.
Plate or similar article. U. Tomita. Des. 80,977; Apr. 15.
Platen-adjusting device. L. Arrans. 1,755,143; Apr. 15.
Plates, Method and machine for flanging. J. Huber. 1,754,428; Apr. 15.
Plug, Railway signal-fusee. F. Dutcher. 1,754,988; Apr. 15.
Plug, Two-piece electrical connection. S. G. Garrett. 1,754,312; Apr. 15.
Plugs of steam boilers, Device for replacing safety. C. H. Sweet and E. F. Hurst. 1,754,657; Apr. 15.
Pneumatic spring. E. Ericsson. 1,754,989; Apr. 15.
Portable house. E. L. Allen. 1,754,590; Apr. 15.
Post: *See*—
Fence post.
Pot: *See*—
Annealing pot. Melting pot.
Power distribution, Electric. B. G. Jamieson. 1,754,515; Apr. 15.
Power installation. F. Hodgkinson. 1,754,426; Apr. 15.
Power plant, Steam-. E. A. Packard. 1,754,283; Apr. 15.
Power plants, Apparatus for cleaning automotive. I. J. Bevins. 1,754,708; Apr. 15.
Power-transmission apparatus. J. J. O. Rullancich. 1,754,528; Apr. 15.
Predicting device. T. J. Stephens. 1,754,653; Apr. 15.
Press: *See*—
Filter press. Printing press.
Press-head construction, Steam-. L. P. Anthony. 1,754,665; Apr. 15.
Presses, Transfer board for printing. E. D. Lawrence. 1,754,795; Apr. 15.
Pressing machine, Electrically-operated. W. P. Beattie. 1,755,046; Apr. 15.
Pressure gauge. W. H. Osborn. 1,754,963; Apr. 15.
Pressure gauge. J. P. Remington. 1,754,436; Apr. 15.
Pressure-indicating device for use with pneumatic tires. C. W. G. Little. 1,755,010; Apr. 15.
Pressure-relief apparatus. H. G. Mobley. 1,754,641; Apr. 15.
Printing press. E. A. Waller. 1,754,379; Apr. 15.
Pulp, Method of and apparatus for screening. A. J. Haug. 1,755,162; Apr. 15.
Pump, Centrifugal. A. O. Fabrin. 1,754,992; Apr. 15.
Pump, Gasoline. E. E. Eickmeyer. 1,754,504; Apr. 15.
Pump jack. B. J. Crist. 1,754,982; Apr. 15.
Pump, Visible. L. Deutsch. 1,754,615; Apr. 15.
Pumping engine. P. Diserens. 1,754,743; Apr. 15.
Pumps, Connecting rod for air. S. L. Fisher. 1,754,618; Apr. 15.
Pumps, Priming means for centrifugal. O. Haentjens. 1,755,000; Apr. 15.
Punch, Draw. J. C. Nischan. 1,754,568; Apr. 15.
Pyrotechnic elements or firecrackers together, Fastening. T. G. Hitt. 1,755,003; Apr. 15.
Rack: *See*—
Display rack. Tie rack.
Rack. E. Schreiber. 1,755,029; Apr. 15.
Rack or tray, Display. J. Tacoma and C. de Vleeschouwer. 1,754,970; Apr. 15.
Radiant heater. E. F. Fisher. 1,754,232; Apr. 15.
Radiation, Apparatus for the prevention of high-frequency. J. J. Jakosky. 1,754,627; Apr. 15.
Radiations, Process and apparatus for obtaining new. V. A. Hénocque and H. Schmidt. 1,754,950; Apr. 15.
Radiator. H. B. De Long. 1,754,850; Apr. 15.
Radiator bracket. S. C. Appel. 1,755,093; Apr. 15.
Radio apparatus. A. F. Sanford. 1,755,028; Apr. 15.
Radio apparatus, Aerial for. J. H. Matheson. 1,755,012; Apr. 15.
Radio broadcast distribution, Regional system of. E. E. Clement. 1,754,876; Apr. 15.
Radiocabinet. L. Francis. Des. 80,940; Apr. 15.
Radiocabinet. L. Luxa and A. A. Pimper. Des. 80,961; Apr. 15.
Radiocabinet or similar article. E. Worthington. Des. 80,978; Apr. 15.
Radio desk set. E. E. Clement. 1,754,880; Apr. 15.
Radio distribution, Trunking system of. E. E. Clement. 1,754,879; Apr. 15.
Radiophone desk set. E. E. Clement. 1,754,875; Apr. 15.
Radio receivers, Indicating device for. C. L. Hopkins. 1,754,792; Apr. 15.
Radio sets, Phonograph adjunct for. J. Weinberger. 1,754,293; Apr. 15.
Radio telephone system. E. E. Clement. 1,754,877; Apr. 15.
Radio trunk system. E. E. Clement. 1,754,881; Apr. 15.
Rail chair. J. M. Powers. 1,754,725; Apr. 15.
Rail cleaner and guard for railroad spreaders. V. G. Tellis. 1,754,778; Apr. 15.
Rail filler, Preformed. A. C. Fischer. 1,755,108; Apr. 15.
Rail plate. H. L. Gordion. 1,754,750; Apr. 15.
Railroad gate, Automatic. E. Canut and J. M. Loydi. 1,755,050; Apr. 15.
Rails from railroad tracks, Method and apparatus for removing. R. Woodbury and R. L. Martin. 1,754,662; Apr. 15.
Railway-roadbed construction. P. Chipman. 1,754,609; Apr. 15.
Railway switches, Apparatus for controlling. D. F. Cobourn. 1,754,742; Apr. 15.
Railway tie, Metallic. R. L. Vare. 1,754,917; Apr. 15.
Railway-track tie. J. J. Dixon. 1,754,352; Apr. 15.
Rake and buncher, Bean. R. Stampfly. 1,754,337; Apr. 15.
Razor, Safety. B. and S. Tewelow. 1,754,807; Apr. 15.
Razor-strop dressing. W. O. Snellings. 1,754,406; Apr. 15.
Reamer, Expanding. E. F. Raymond. 1,754,525; Apr. 15.
Reamer, Expanding. J. J. Santiago. 1,754,530; Apr. 15.
Recede and set works. E. G. Stack. 1,754,701; Apr. 15.
Receiving system, High-frequency. H. E. Allen. 1,755,091; Apr. 15.
Receptacle for knives, forks, and the like, Condiment. H. Walch. 1,754,973; Apr. 15.
Rectilinear movement into a continuous rotary movement, Device for transforming a. E. Bouillon. 1,754,216; Apr. 15.
Reflector. H. Mayer. 1,754,960; Apr. 15.
Reflector. E. A. Miller. 1,754,900; Apr. 15.
Refrigerating machine. C. Steenstrup. 1,755,084; Apr. 15.
Refrigerating system. A. C. Schickler. 1,754,967; Apr. 15.
Register. C. A. Besch. 1,754,847; Apr. 15
Register for fuel burners, Double-ported. E. H. Peabody. 1,754,433; Apr. 15.
Regulator: *See*—
Voltage regulator.
Ring: *See*—
Piston and packing ring. Piston ring.
Ring. A. A. Constabel. Des. 80,935; Apr. 15.
Ring guard. Finger-. H. Levin. 1,754,892; Apr. 15.
Ring or article of similar nature, Finger. B. Gross. Des. 80,941–50; Apr. 15.
Rocking-chair, Front-propelling. E. L. Swindler. 1,754,703; Apr. 15.
Rod: *See*—
Surveying rod.
Roll construction for gristmills. E. A. Hall. 1,754,270; Apr. 15.
Roll, Fluid-cooled. H. K. Hitchcock. 1,754,826; Apr. 15.
Roll mill, Pendulum. F. L. Buchanan. 1,754,414; Apr. 15.
Roller cutter drill. C. H. Bull. 1,754,848; Apr. 15.
Roofing, Coating and surfacing prepared. W. H. Cady. 1,755,049; Apr. 15.
Roofing elements and product thereof, Making curved. L. Kirschbraun. 1,754,771; Apr. 15.
Root-canal filler. J. W. Smith. 1,754,577; Apr. 15.
Rubber articles, Method of and apparatus for sizing hard-. F. Fenton. 1,754,993; Apr. 15.
Rubber, Dispersed vulcanized. W. C. Geer and H. L. Trumbull. 1,754,886; Apr. 15.
Rubber latex, Concentrating. I. Traube. 1,754,842; Apr. 15.
Rule, Measuring. D. W. Nearing. 1,754,903; Apr. 15.
Sash construction. C. G. Nelson. 1,754,759; Apr. 15.
Sash guide. W. E. Keller. 1,754,517; Apr. 15.
Saw. A. Kuenne. 1,755,067; Apr. 15.
Saw-filing device. J. A. Waller. 1,754,378; Apr. 15.
Scale. N. A. Hallwood. 1,754,359; Apr. 15.
Scalp and hair, Device for cleaning the. J. L. Henderson. 1,755,151; Apr. 15.
Scissors. J. M. Woythal. 1,755,141; Apr. 15.
Scooter. O. H. Gentry. 1,754,887; Apr. 15.
Scouring machine. H. Warren. 1,754,292; Apr. 15.
Scraper, Wheeled. A. P. Armington. 1,754,976; Apr. 15.
Screen: *See*—
Light-coloring screen.
Screw driver, Screw-holding. J. E. Calvert. 1,754,739; Apr. 15.
Screw extractor. E. J. Bryant. 1,754,736; Apr. 15.
Screw-thread chaser. T. K. Stevenson. 1,754,480; Apr. 15.
Scrubber. J. A. Campbell. 1,754,607; Apr. 15.
Sealing compound. H. B. Swaab. 1,754,727; Apr. 15.
Seat: *See*—
Folding seat. Valve seat.
Upholstered seat.
Seed board for cotton gins, Curved. W. M. Johnston. 1,755,008; Apr. 15.
Semitrailer, Double-decked. F. W. Wilt. 1,754,409; Apr. 15.
Separating machine and process of separating materials. C. E. McNeal. 1,754,834; Apr. 15.
Separation of mixtures. L. P. Sharples. 1,754,774; Apr. 15.
Separator: *See*—
Fluid separator. Steam separator.
Oil separator.
Separator. A. L. Mensin. 1,754,477; Apr. 15.

Sewing-machine-needle controlling mechanism. F. M. Card. 1,754,608; Apr. 15.
Sewing wire for flat rope. R. Nitsch. 1,755,018; Apr. 15.
Sharpener, Blade. S. M. Wixcel. 1,754,295; Apr. 15.
Shearlings and the like, Dyeing. J. G. Shoemaker. 1,754,287; Apr. 15.
Sheath, Knife. E. W. Rittler. 1,754,520; Apr. 15.
Sheet articles, Dispensing device for flexible. H. K. Lorentzen. 1,754,957; Apr. 15.
Sheets, Mechanism for opening. R. Edwards. 1,754,852; Apr. 15.
Sherbet or similar article. G. Sakier. Des. 80,972; Apr. 15.
Shock absorber. J. R. Snyder. 1,754,488; Apr. 15.
Shock absorber, Pneumatic. F. H. Blakeslee. 1,754,846; Apr. 15.
Shoe. L. L. Gant. 1,754,996; Apr. 15.
Shoe. C. Morall. Des. 80,963; Apr. 15.
Shoe filler. C. C. Eaton. 1,754,225; Apr. 15.
Shoe-lasting device. H. H. Roosa. 1,754,695; Apr. 15.
Shoe uppers, Apparatus for operating upon parts of. J. Fossa. 1,754,464; Apr. 15.
Shoes, Lasting. B. Jorgensen. 1,754,272; Apr. 15.
Sign, Daylight. E. McCollum. 1,754,665; Apr. 15.
Sign device. T. H. Harris. 1,754,944; Apr. 15.
Sign, Display. N. B. M. O'Brien. 1,754,868; Apr. 15.
Sign, Display. W. P. Wise. 1,754,871; Apr. 15.
Signal: *See*—
Traffic signal.
Signal device, Danger-. E. A. Miller and C. A. James. 1,754,899; Apr. 15.
Signal switch, Automobile theft-. F. H. Hendricks. 1,754,360; Apr. 15.
Signal system, Electric. C. C. Farmer and T. H. Thomas. 1,754,228; Apr. 15.
Signaling. G. E. Lee. 1,754,365; Apr. 15.
Signaling apparatus, High-water. J. J. McCandless. 1,754,393; Apr. 15.
Signaling apparatus, Railway. C. R. Beall. 1,754,592; Apr. 15.
Signaling device. J. A. Stephens. 1,755,137; Apr. 15.
Signaling system. J. Davidson, jr. and D. L. Moody. 1,754,224; Apr. 15.
Signaling system, Unicontrol. L. A. Hazeltine. 1,755,114; Apr. 15.
Signboard structure, Advertising. W. G. Browne and R. W. Olmsted. 1,754,932; Apr. 15.
Slag-reducing process. T. F. Baily and L. G. Pritx. 1,754,845; Apr. 15.
Sliding catch. P. Stoya. 1,754,867; Apr. 15.
Snap switch. F. C. De Reamer. 1,755,055; Apr. 15.
Snowplow with top discharge. J. O. Johnson. 1,754,322; Apr. 15.
Socket, Electric. J. Cuthbert. 1,754,984; Apr. 15.
Socket for the combination X-ray radiators. S. Schvacho. 1,755,025; Apr. 15.
Socket, Sucker-rod. F. C. Canniff. 1,754,816; Apr. 15.
Solids from liquids, Apparatus for the separation of finely-divided. J. W. Wickes. 1,754,870; Apr. 15.
Sound amplifier. F. C. Hinckley. 1,754,425; Apr. 15.
Sound-reproducing machine, Automatic. S. Kohn. 1,754,897; Apr. 15.
Spark plug. E. J. Johnson. 1,754,718; Apr. 15.
Spark plug. J. P. Ritchey. 1,754,648; Apr. 15.
Spark plugs clean, Method of and apparatus for keeping. W. McElroy. 1,754,796; Apr. 15.
Splice joint, Trolley-wire. S. J. Evans. 1,754,991; Apr. 15.
Spool end. J. H. Kjellstrom. 1,754,274; Apr. 15.
Spotlight. J. S. Gullborg. 1,754,512; Apr. 15.
Spray drier. W. O. Frohring and W. F. Richards. 1,754,941; Apr. 15.
Sprayer, Hydraulic. J. D. Davenport. 1,754,710; Apr. 15.
Spraying machine. S. C. Stewart. 1,754,490; Apr. 15.
Spring: *See*—
Pneumatic spring.
Spring jack. B. D. Vickrey. 1,755,088; Apr. 15.
Staging bracket, Folding. A. P. Henderson. 1,755,116; Apr. 15.
Stalk cutter. W. A. Martin. 1,754,832; Apr. 15.
Stall, Cow. J. F. Grim. 1,754,752; Apr. 15.
Stand: *See*—
Cigar stand.
Starting means for internal-combustion engines. R. Whitlock. 1,754,869; Apr. 15.
Steam boiler. H. B. Bunker. 1,754,350; Apr. 15.
Steam separator. A. L. Mensin. 1,754,478; Apr. 15.
Step. J. R. Blackhall. 1,754,788; Apr. 15.
Sterilization. J. W. Yates. 1,754,251; Apr. 15.
Still. J. A. Campbell. 1,754,605; Apr. 15.
Stocking protector. E. B. Bishop. 1,754,666; Apr. 15.
Stoker, Underfeed. R. L. Beers. 1,755,146; Apr. 15.
Stonecutter. A. W. Wolfe. 1,754,539; Apr. 15.
Stone distributor. C. W. Kerr. 1,755,120; Apr. 15.
Straw-serving machine. S. Barkey. 1,755,045; Apr. 15.
Straw wilter. C. R. Osgood. 1,754,522; Apr. 15.
Stray-limiting device. H. L. Hoyt, jr., and B. Washington. 1,754,557; Apr. 15.
Submarine escapement apparatus. J. E. and P. A. Martin. 1,754,690; Apr. 15.
Sucker-rod elevator. G. E. Sawyer. 1,755,134; Apr. 15.
Suit, Ensemble. D. Long. Des. 80,958; Apr. 15.
Sulphate process, Continuous. W. D. Mount. 1,754,902; Apr. 15.
Sulphate, Production of potassium ammonium. R. Griessbach and O. Schliephake. 1,754,358; Apr. 15.
Sunshade for vehicles. F. Stone. 1,754,777; Apr. 15.
Supercharger construction. G. J. Mead. 1,754,724; Apr. 15.
Support for brake beams, Supplemental. E. G. Busse and W. Janus. 1,754,385; Apr. 15.
Support, Machine-unit. R. F. Cowell and R. W. Davis. 1,754,308; Apr. 15.
Support, Plant. G. Vought. 1,754,534; Apr. 15.
Supporting means for liquid-fuel burners. J. W. H. Ainscow. 1,755,090; Apr. 15.
Surgical instrument. H. N. Stevenson. 1,754,806; Apr. 15.
Surveying rod. J. Quigley. 1,754,384; Apr. 15.
Sweetening process. G. L. Rowsey. 1,754,649; Apr. 15.
Swimmer's device. J. L. Wilcox. 1,754,704; Apr. 15.
Switch: *See*—
Electric switch. Signal switch.
Lighting and ignition switch. Snap switch.
Time-controlled switch.
Switch mechanism. C. Mauborgne. 1,755,070; Apr. 15.
Switching arrangement, Automatic. H. Bany and H. E. Lockett. 1,755,094; Apr. 15.
Synchronising device. L. F. Kennedy. 1,755,064; Apr. 15.
Synthetic-methanol process. L. A. Stengel. 1,754,371; Apr. 15.
Table: *See*—
Welding table.
Table roll, Suction. H. R. Farnsworth. 1,754,822; Apr. 15.
Tag. H. E. Hobbs. Des. 80,951; Apr. 15.
Tank: *See*—
Fire-bucket tank. Flushing tank.
Tank expansion joint, Oil-. C. F. H. Bohnhardt. 1,754,597; Apr. 15.
Tank-roof structure. C. F. H. Bohnhardt. 1,754,596; Apr. 15.
Tapping or like machine. W. R. Fox and H. D. Corwin. 1,754,621; Apr. 15.
Telegraph-printer tape-feed mechanism. R. F. Dirkes and E. R. Wheeler. 1,754,985; Apr. 15.
Telegraphy and telephony, Arrangement for wireless. A. Leib. 1,754,326; Apr. 15.
Telephone and telegraph system, Composite. H. Nyquist and S. Brand. 1,754,240; Apr. 15.
Telephone signaling system. E. W. Niles and W. H. Edwards. 1,754,239; Apr. 15.
Television. System for transmission and reception of. G. Wald. 1,754,491; Apr. 15.
Textile fabric. A. de Rose. Des. 80,937; Apr. 15.
Theater, Illuminated moving-picture. D. Farnum. 1,754,674; Apr. 15.
Theodolite and other angle-measuring instruments. T. Y. Baker and R. W. Cheshire. 1,754,872; Apr. 15.
Therapeutic pad. J. M. Nunnally. 1,754,765; Apr. 15.
Therapeutic tablet. E. B. Vliet and E. H. Volwiler. 1,754,809; Apr. 15.
Threads of derivatives of cellulose, Process and apparatus for the manufacture of artificial. K. Hoffmann. 1,754,427; Apr. 15.
Thumb saver. C. B. Morrison. 1,755,014; Apr. 15.
Tie: *See*—
Railway tie. Railway-track tie.
Tie plate. B. M. Cheney. 1,754,500; Apr. 15.
Tie rack. C. K. Freeman. 1,754,940; Apr. 15.
Till, Double-compartment money. L. R. Sherwood and T. L. Little. 1,754,911; Apr. 15.
Tilling machine, Rotary. E. H. W. Foot. 1,754,811; Apr. 15.
Time-controlled switch. G. M. Brunner. 1,754,933; Apr. 15.
Timer insulation, Laminated. L. A. Alexander. 1,754,493; Apr. 15.
Tire. F. G. Schenuit. 1,754,836; Apr. 15.
Tire-building machine. W. E. Swern. 1,754,583; Apr. 15.
Tire-plugging method and means therefor. R. T. Griffiths. 1,754,624; Apr. 15.
Tobacco, Loosening and spreading cut. H. Schünemann. 1,755,081; Apr. 15.
Tone amplifier for sound-reproducing apparatus. F. Wilhelm and K. J. Müller. 1,754,538; Apr. 15.
Tool, Automatic thread-cutting. P. O. Hecht. 1,754,949; Apr. 15.
Tool carrier. M. Gilmore. 1,755,112; Apr. 15.
Tool, Electric welding. J. Endebak. 1,754,353; Apr. 15.
Tool, Fishing. M. F. Aloi. 1,754,344; Apr. 15.
Tool, Fishing. J. M. Sauls. 1,754,696; Apr. 15.
Tool, Pipe-flanging. C. A. McGough. 1,754,637; Apr. 15.
Tool, Power. L. I. Browne. 1,754,348; Apr. 15.
Tool, Radius. J. W. Parker. 1,755,152; Apr. 15.
Tool, Sheet-metal bumping-out. W. Ferguson. 1,754,994; Apr. 15.
Tool, Soldering. S. Baracate. 1,754,382; Apr. 15.
Tool, Valve-bag closing and sealing. A. L. Currier. 1,754,462; Apr. 15.
Top, Collapsible. W. A. Hourd. 1,754,235; Apr. 15.
Torpedoes, Method and apparatus for directing. L. Marmonier. 1,755,125; Apr. 15.
Torque converter. W. Hurlburt. 1,754,893; Apr. 15.
Towel, Sanitary manicuring. L. Grom. 1,755,113; Apr. 15.
Toy. F. J. Goriup. 1,754,823; Apr. 15.
Toy. W. M. Lister. 1,754,564; Apr. 15.
Toy. R. B. Weimer. 1,755,161; Apr. 15.
Toy figure. P. M. Weamer. Des. 80,979–85; Apr. 15.

Toy glider. E. B. Wilder, B. B. Baker, and W. Wilder. Des. 80,987–8; Apr. 15.
Toy gun. L. V. Aronson. 1,755,142; Apr. 15.
Toy locomotive wheel. J. T. Galligan. 1,754,995; Apr. 15.
Toy, Mechanical. J. W. Thompson. 1,754,916; Apr. 15.
Toy, Musical educational. I. Cash. 1,754,458–9; Apr. 15.
Toy tractor. R. D. Conboy. 1,754,307; Apr. 15.
Toy, Wheeled. P. Strong. 1,755,035; Apr. 15.
Track construction. H. P. Schmeck. 1,755,030; Apr. 15.
Tractor-equipment combination. W. D. Shoemaker and F. L. Young. 1,755,136; Apr. 15.
Tractor, Garden. H. E. Esch and E. A. Buchanan. 1,754,617; Apr. 15.
Tractor wheel. J. A. Grant. 1,755,160; Apr. 15.
Traffic-control system for radio broadcast distribution. E. E. Clement. 1,754,878; Apr. 15.
Traffic-controlling apparatus, Railway-. W. P. Allen. 1,754,734; Apr. 15.
Traffic signal. P. P. Horni. Re17,642; Apr. 15.
Train-control apparatus, Simplex normal danger automanual. A. L. Ruthven. 1,754,906; Apr. 15.
Train control, Continuous. A. L. Ruthven. 1,754,907; Apr. 15.
Train control, Run-down and reset. A. L. Ruthven. 1,754,905; Apr. 15.
Transmission. S. C. Igou. 1,754,953; Apr. 15.
Transmission. B. Stevens. 1,754,654; Apr. 15.
Transmission brake. H. B. Shields. 1,754,286; Apr. 15.
Transmission, Electromagnetic. J. G. Frank. 1,754,675; Apr. 15.
Transmission lines, Cooling system for underground electric. F. W. Gay. 1,754,314; Apr. 15.
Trap: *See*—
  Bird trap.
Traveling bag. S. Podmayer. Des. 80,964; Apr. 15.
Tray and advertising device, Combined change. C. L. Kee. 1,754,363; Apr. 15.
Tray, Electric service. H. G. Ford. 1,754,619; Apr. 15.
Tray or similar article, Glass relish. J. C. Kelly. Des. 80,954; Apr. 15.
Tray, Serving. C. H. Green. 1,754,713; Apr. 15.
Truck bolster. M. H. Martin. 1,754,633; Apr. 15.
Truck, Railway. C. J. Ellis. 1,754,505; Apr. 15.
Tube: *See*—
  Dispensing tube. Vacuum tube.
Tube-stripping machine. H. T. Kraft. 1,755,065; Apr. 15.
Tumbler and bottle opener, Combination. C. E. Tapp. 1,755,086; Apr. 15.
Typewriting and computing machine, Combined. F. A. Hart. 1,754,679; Apr. 15.
Umbrella guard. H. M. Vandenhove. 1,755,039; Apr. 15.
Underreamer. J. W. MacClatchie. 1,754,830; Apr. 15.
Uniform. R. H. and M. Wolfe. 1,754,881; Apr. 15.
Unloader, Dual-pressure. C. W. Metzgar. 1,754,831; Apr. 15.
Upholstered seat. C. E. McCormick. 1,754,278; Apr. 15.
Upholstery attachment. S. L. Warren. 1,754,921; Apr. 15.
Utensil, Culinary. R. A. Cochran. 1,754,979; Apr. 15.
Vacuum brake. C. C. Farmer. 1,754,229; Apr. 15.
Vacuum tube. W. H. T. Holden. 1,754,234; Apr. 15.
Valve. H. A. Feldbush. 1,754,747; Apr. 15.
Valve-actuating means, Selective. P. S. Shield. 1,755,153; Apr. 15.
Valve, Air-relief. J. M. Barrett. 1,754,782; Apr. 15.
Valve bag and making the valve. J. C. Redington. 1,754,769; Apr. 15.
Valve, Blow-off or mud. H. D. Barr. 1,755,145; Apr. 15.
Valve cap. A. D. Whipple. 1,754,660; Apr. 15.
Valve construction for internal-combustion engines, Sliding-. H. A. Flogaus. 1,754,787; Apr. 15.
Valve device, Feed-. C. C. Farmer. 1,754,227; Apr. 15.
Valve device, Feed-. J. B. Wright. 1,754,250; Apr. 15.
Valve, Electric. J. J. Fagan and L. Kovacs. 1,755,057; Apr. 15.
Valve, Heater. H. G. Traver. 1,754,729; Apr. 15.
Valve, Magnetic. A. Clarkson. 1,754,740; Apr. 15.
Valve mechanism. D. D. Goldberg. 1,754,424; Apr. 15.
Valve mechanism for internal-combustion engines. R. H. Gerard. 1,754,888; Apr. 15.
Valve mechanism for internal-combustion engines. C. Reeves. 1,754,647; Apr. 15.
Valve, Nonreturn. G. Andersen. 1,754,975; Apr. 15.
Valve pedestal, Brake-. C. D. Stewart. 1,754,244; Apr. 15.
Valve, Rotary. P. J. Gilbert. 1,754,509; Apr. 15.
Valve seat, Expanded. A. H. Leipert. 1,754,720; Apr. 15.
Valve, Self-grinding. C. S. Pope. 1,754,523; Apr. 15.
Valve, Temperature-actuated automatic control. J. and A. C. Sladky. 1,754,805; Apr. 15.
Vanity case. C. N. Coryell. 1,754,981; Apr. 15.
Vaporizing apparatus or appliance. C. F. Waigand. 1,754,971; Apr. 15.
Vegetable fibers of any kind, Process of rapidly bleaching. C. G. Schwalbe. 1,754,909; Apr. 15.
Vehicle brake, Motor-. P. A. S. Iversen. 1,754,858; Apr. 15.
Vehicle braking apparatus. T. H. Lee. 1,754,861; Apr. 15.
Vehicle construction, Motor-. J. G. Uts. 1,754,291; Apr. 15.
Vehicle, Trailer. A. B. Cadman. 1,755,100; Apr. 15.
Veneer stacker. E. G. Stack. 1,754,700; Apr. 15.
Ventilator: *See*—
  Window ventilator.
Ventilator and sun shield, Combined. R. E. Swann. 1,754,339; Apr. 15.
Violin. H. M. Lents. 1,754,686; Apr. 15.
Vision attachment. F. Behrendt. 1,754,540; Apr. 15.
Voltage-regulating means, Automatic. F. W. Gay. 1,755,060; Apr. 15.
Voltage regulator, Electrical. C. Wolf. 1,754,732; Apr. 15.
Voltage structure, High-. H. G. MacDonald, J. E. Mateer, and G. A. Burr. 1,755,068; Apr. 15.
Voltage structure, High-. J. E. Mateer. 1,754,838; Apr. 15.
Vulcanizer. A. W. Scharpf. 1,754,575; Apr. 15.
Waffle iron. H. H. Schott. 1,754,486; Apr. 15.
Waffle iron, Duplex electric. E. S. Preston. 1,754,800; Apr. 15.
Wall board and producing the same, Fireproof. F. S. Vivas. 1,754,843; Apr. 15.
Wall board, Fibrous. H. E. Brookby. 1,754,413; Apr. 15.
Wall-case construction. M. J. Straayer. 1,754,245; Apr. 15.
Wall-papering implement. C. D. Alexander. 1,754,219; Apr. 15.
Washer: *See*—
  Dish washer.
Washing and finishing machine, Rotary rug. E. J. Carroll and G. W. Johnson. 1,754,306; Apr. 15.
Washing machine. L. Greenberg. 1,754,510; Apr. 15.
Washing machine. W. J. Hollier. 1,754,951; Apr. 15.
Washing-machine impeller. R. J. Holzhausen. 1,754,626; Apr. 15.
Waste can. W. Raster. 1,754,802; Apr. 15.
Watch. E. Frey. 1,754,884; Apr. 15.
Water-closet. F. Wallace. 1,755,040; Apr. 15.
Water-dispensing device, Bottled-. F. S. Tower. 1,754,317; Apr. 15.
Water heater. O. J. Kuenhold. 1,754,472; Apr. 15.
Water heater. W. J. Sims. 1,755,082; Apr. 15.
Water heater, Electric. M. E. Staley. 1,754,580; Apr. 15.
Waterproofing composition. A. W. Holmberg. 1,754,827; Apr. 15.
Water shed for doors and making it. L. H. Lehman. 1,754,719; Apr. 15.
Wave generator, short-. F. Gerth. 1,754,749; Apr. 15.
Weatherproofing means. A. H. Kuhlman. 1,754,956; Apr. 15.
Web-guiding apparatus. R. S. Kirk. 1,754,629; Apr. 15.
Weeder, Rotary disk. H. V. Hoskins. 1,755,004; Apr. 15.
Weigher, Automatic. S. W. and E. S. Smith. 1,755,154; Apr. 15.
Weighing indicator. E. W. Schellentrager. 1,755,078; Apr. 15.
Welding. W. R. Linden. 1,754,721; Apr. 15.
Welding. W. B. Miller. 1,754,566; Apr. 15.
Welding machine, Electric. C. T. Hatch. 1,754,948; Apr. 15.
Welding table. H. Schmuckler. 1,755,031; Apr. 15.
Well apparatus. N. K. Smith. 1,754,288; Apr. 15.
Well flowing apparatus. R. M. Haskell. 1,754,946; Apr. 15.
Wells, Method and apparatus for flowing or pumping. R. M. Haskell. 1,754,945; Apr. 15.
Wheel: *See*—
  Automobile wheel. Tractor wheel.
  Toy locomotive wheel.
Wheelbarrow. H. B. Newton. 1,754,835; Apr. 15.
Wheel construction. H. L. Kraeft. 1,754,481; Apr. 15.
Wheels, Traction device for. C. Passega. 1,754,569; Apr. 15.
Winch. T. A. East. 1,754,786; Apr. 15.
Windlass. O. Melbye. 1,754,691; Apr. 15.
Wind motor. W. S. Schlotshauer. 1,754,698; Apr. 15.
Window. J. F. Ruth. 1,754,439; Apr. 15.
Window construction. F. Hamilton. 1,754,816; Apr. 15.
Window-operating mechanism. P. S. Geusa. 1,754,623; Apr. 15.
Window seat and refrigerator, Combined. M. Mixrahi. 1,754,640; Apr. 15.
Window-shade fixture. C. H. Wood. 1,754,661; Apr. 15.
Window ventilator. C. R. Johnson. 1,754,559; Apr. 15.
Wiper, Windshield. E. J. Gallagher. 1,755,059; Apr. 15.
Wiper, Windshield. W. Storrie. 1,755,155; Apr. 15.
Wood-bending machine. C. W. Elliott. 1,754,549; Apr. 15.
Wool, Removing marks on. G. J. M. and R. H. M. Steins. 1,754,338; Apr. 15.
Wrench: *See*—
  Hub-cap wrench.
Wrench. O. Johnson. 1,754,684; Apr. 15.
Wrist pin, Self-adjusting. C. A. Iselin. 1,754,753; Apr. 15.
X-ray machine. A. Mutscheller. 1,754,799; Apr. 15.
X-ray protective device. R. H. Wappler. 1,754,810; Apr. 15.
Yarn-winding machine. E. A. Cunniff. 1,755,148; Apr. 15.

CLASSIFICATION OF PATENTS

ISSUED APRIL 15, 1930

NOTE.—First number—class, second number—subclass, third number—patent number.

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246— 40: 1,754,592
63: 1,754,734
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258: 1,754,742
259: 1,755,050
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248— 16: 1,754,308
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67: 1,755,045
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U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

A/S Bremanger Kraftselskab, Bergen, Norway. Pig iron. 269,977; Apr. 22; Serial No. 293,657; published Feb. 4, 1930. Class 14.

Aberlyons Laboratories, Inc., New York, N. Y. Preparation of dried liver and natural salts. 269,907; Apr. 22; Serial No. 290,774; published Dec. 24, 1929. Class 6.

Adler, Samuel B., doing business as Dynamite Company of America, Steubenville, Ohio. Laxative. 270,017; Apr. 22; Serial No. 258,205; published Feb. 4, 1930. Class 6.

Aitken, Hugh W., Glasgow, assignor to Hugh Wallace Aitken, Bearsden, Scotland. Roller-mill castings. 74,792; renewed Aug. 10, 1929.

All Electric Refrigerator Company. (See Wolfson, Samuel J.)

Allen, Bona, Inc., Buford, Ga. Shoes. 270,067; Apr. 22; Serial No. 292,089; published Feb. 4, 1930. Class 39.

Alloys Company, The, San Francisco, Calif. Pipe-thread compound. 270,024; Apr. 22; Serial No. 271,586; published Feb. 11, 1930. Class 18.

Aluminium-Industrie-Aktien-Gesellschaft, Neuhausen, Switzerland, Aluminium alloys. 269,979; Apr. 22; Serial No. 293,651; published Feb. 11, 1930. Class 14.

Alward-Anderson-Southard Co., Chicago, Ill. Hunting coats and pants, hunting vests, etc. 269,945; Apr. 22; Serial No. 293,508; published Feb. 11, 1930. Class 39.

Amendt Milling Company, Monroe, Mich. Wheat flour. 78,479; renewed June 21, 1930.

American Chicle Company, Long Island City, N. Y. Chewing gum. 269,868; Apr. 22; Serial No. 294,375; published Feb. 11, 1930. Class 46.

American Chicle Company, Long Island City, N. Y. Chewing gum. 270,021; Apr. 22; Serial No. 273,128; published Feb. 11, 1930. Class 46.

American News Company, The, New York, N. Y., assignor to William Stevens, Ltd., London, England. Magazine. 76,956; renewed Mar. 1, 1930.

American Products Co., The, doing business as Bellcrest Company, Cincinnati, Ohio. Tablecloths, card-table covers, luncheon sets, etc. 270,053; Apr. 22; Serial No. 294,135; published Feb. 11, 1930. Class 42.

American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls and Elmira, N. Y. Letter paper and record forms. 269,841; Apr. 22; Serial No. 293,566; published Feb. 4, 1930. Class 37.

American Steel and Wire Company of New Jersey, The. (See Trenton Iron Company, The, assignor.)

American Tag Company, Chicago, Ill. Shipping tags. 269,844; Apr. 22; Serial No. 293,507; published Feb. 4, 1930. Class 37.

Anglo-Swiss Condensed Milk Company, assignor, by mesne assignments, to Borden's Milk Products Company, Inc., New York, N. Y. Dairy products. 34,494; renewed Apr. 17, 1930.

Anthony, Glenn W., Phenix City, Ala. Magazines and printed circulars, etc. 269,997; Apr. 22; Serial No. 292,436; published Feb. 4, 1930. Class 38.

Applebaum-Mautner Company, Champaign, Ill. Boots, shoes, and slippers. 269,824; Apr. 22; Serial No. 292,965; published Feb. 4, 1930. Class 39.

Architects' File Service. (See Young, Guy K.)

Armour and Company, Chicago, Ill. Strings for plucked and hammered musical instruments. 269,890; Apr. 22; Serial No. 287,224; published Feb. 4, 1930. Class 36.

Austin, Nichols & Co., New York, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., successor. Canned salmon and dried salt codfish. 75,836; renewed Nov. 23, 1929.

Austin, Nichols & Co., New York, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., successor. Blended tea. 76,063; renewed Dec. 14, 1929.

Austin, Nichols & Co., New York, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., successor. Canned sardines in olive oil. 76,350; renewed Jan. 11, 1930.

Austin, Nichols & Co., New York, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., successor. Foods. 76,890; renewed Jan. 11, 1930.

Austin, Nichols & Co., New York, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., successor. Certain foods. 76,614; renewed Feb. 1, 1930.

Auto Truck Food Distributor Publishing Company, The. (See Magnus, Joseph E.)

Automatic Gold Chain Co., Providence, R. I. Jewelry. 269,926; Apr. 22; Serial No. 293,258; published Feb. 11, 1930. Class 28.

Automatic Gold Chain Co., Providence, R. I. Jewelry. 269,948; Apr. 22; Serial No. 293,361; published Feb. 11, 1930. Class 28.

Bagshaw, W. H., Company, Lowell, Mass. Phonograph needles. 270,004; Apr. 22; Serial No. 292,921; published Feb. 4, 1930. Class 36.

Bailey, Charles W., doing business as Blue Rock Gasket Paste Co., Dayton, Ohio. Gasket pastes. 269,998; Apr. 22; Serial No. 276,945; published Feb. 11, 1930. Class 5.

Barker Bros. Incorporated, Los Angeles, Calif. Radio receiving sets and structural parts thereof, radio loudspeakers. 269,889; Apr. 22; Serial No. 287,435; published Feb. 4, 1930. Class 21.

Barrett Company, The, New York, N. Y. Motor-fuel oils. 269,893; Apr. 22; Serial No. 285,062; published Feb. 4, 1930. Class 15.

Barteldes Seed Company, The, Lawrence, Kans. Pop corn. 269,861; Apr. 22; Serial No. 293,614; published Feb. 11, 1930. Class 46.

Bates Manufacturing Company, The, West Orange, N. J. Numbering machines. 269,975; Apr. 22; Serial No. 294,137; published Feb. 11, 1930. Class 26.

Bauer Type Foundry, Inc., The, New York, N. Y. Printing type. 269,899; Apr. 22; Serial No. 292,650; published Feb. 11, 1930. Class 14.

Beach-Russ Co., Brooklyn, N. Y. Pumps. 269,974; Apr. 22; Serial No. 294,139; published Feb. 11, 1930. Class 23.

Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Boots, lumbermen's packs, arctics, and rubber shoes. 270,070; Apr. 22; Serial No. 291,903; published Feb. 11, 1930. Class 39.

Beattie, George H., Cleveland, Ohio. Finger rings, bracelets, necklaces, etc. 270,031; Apr. 22; Serial No. 283,428; published Feb. 4, 1930. Class 28.

Becken, A. C., Company, Chicago, Ill. Publication. 270,042; Apr. 22; Serial No. 294,005; published Feb. 11, 1930. Class 38.

Bedford Johnson Company, Inc., New York, N. Y. Piece goods of all wool or fabrics of part wool and part cotton. 269,963; Apr. 22; Serial No. 285,807; published Feb. 11, 1930. Class 6.

Beh & Co. Inc., New York, N. Y. Clothes hampers. 269,942; Apr. 22; Serial No. 293,130; published Feb. 11, 1930. Class 2.

Belber Trunk & Bag Company, The, Philadelphia, Pa. Trunks. 270,019; Apr. 22; Serial No. 276,245; published Feb. 11, 1930. Class 3.

Bellcrest Company. (See American Products Co., The.)

Benares Incense Company. (See Sukul, Sri Deva Ram.)

Benedikt, H. S., Company, Inc., New York, N. Y. General tonic in liquid form. 269,981; Apr. 22; Serial No. 293,174; published Feb. 4, 1930. Class 6.

Ben-Hur Metal Polish Company, Crawfordsville, Ind. Polishes. 78,485; renewed June 21, 1930.

Bernard Laboratories. (See Klein, Bert L.)

Berry, Dodge Company. (See Wood, Thomas, & Co.)

Bessinger, George, Sheboygan, Wis. Medicinal preparation for treating corns, etc. 270,058; Apr. 22; Serial No. 293,403; published Feb. 4, 1930. Class 6.

Bianchini, Férier, Lyon, France. Piece goods of silk. 270,030; Apr. 22; Serial No. 283,657; published Feb. 11, 1930. Class 42.

Bio-Medical Research Laboratories, Incorporated, Brooklyn, N. Y. Antipyretic, analgesic, and sedative. 270,014; Apr. 22; Serial No. 292,972; published Feb. 4, 1930. Class 6.

Blue and Gray Transit Company, Charleston, W. Va. Magazine. 270,044; Apr. 22; Serial No. 293,866; published Feb. 11, 1930. Class 38.

Blue Rock Gasket Paste Co. (See Bailey, Charles W.)

Bobrow Bros., Inc., Philadelphia, Pa. Cigars. 269,857; Apr. 22; Serial No. 293,916; published Feb. 11, 1930. Class 17.

Borden's Milk Products Company. (See Anglo-Swiss Condensed Milk Company, assignor.)

Breskin & Charlton Publishing Corporation, New York, N. Y. Publication. 269,934; Apr. 22; Serial No. 294,140; published Feb. 11, 1930. Class 38.

Brouwer, S. J., Milwaukee, Wis. Shoes. 270,066; Apr. 22; Serial No. 292,247; published Feb. 11, 1930. Class 39.

Brown & Williamson Tobacco Corporation, Louisville, Ky. Tobacco, cigars, cigarettes, and snuff. 269,876; Apr. 22; Serial No. 293,953; published Feb. 11, 1930. Class 17.

Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Game-table cushions. 269,965; Apr. 22; Serial No. 292,973; published Feb. 4, 1930. Class 22.

Byron Hat Corporation, New York, N. Y. Hats and caps, overcoats, dresses, and coats. 270,065; Apr. 22; Serial No. 292,249; published Feb. 4, 1930. Class 39.

Calderoni Medicine Co., Brownsville, Tex. Balm liniment, ointment, and ringworm medicine. 269,959; Apr. 22; Serial No. 290,447; published Feb. 4, 1930. Class 6.

California Packing Corporation. (See Code-Portwood Canning Co., assignor.)

Calvert, F. C., & Co., assignor to F. C. Calvert & Co. Limited, Manchester, England. Soaps. 77,702; renewed May 3, 1930.

Capewell Horse Nail Company, The, Hartford, Conn. Horse nails. 79,410; renewed Sept. 6, 1930.

Capewell Horse Nail Company, The, Hartford, Conn. Horse nails. 79,421; renewed Sept. 6, 1930.

Carnegie, Dale, Forest Hills, N. Y. Picture section of a newspaper or magazine. 269,999; Apr. 22; Serial No. 292,096; published Feb. 4, 1930. Class 38.

Carter, Chas. C., doing business as Pennsylvania Lubricants Company, Los Angeles, Calif. Lubricating oils and greases. 269,878; Apr. 22; Serial No. 291,436; published Feb. 4, 1930. Class 15.

Casquero y Vieta, Mariano, Habana, Cuba. Medicinal preparation. 270,032; Apr. 22; Serial No. 283,205; published Feb. 11, 1930. Class 6.
Chemical & Dye Corporation, Springfield, N. J. Colloidal penetrating agent. 269,903; Apr. 22; Serial No. 292,394; published Feb. 4, 1930. Class 6.
Chipman's, Chas., Sons, Easton and Selinsgrove, Pa., to Chas. Chipman's Sons Co., Inc., New York, N. Y., successor. Hosiery. 76,739; renewed Feb. 15, 1930.
Chipman's, Chas., Sons, Easton and Selinsgrove, Pa., to Chas. Chipman's Sons Co., Inc., New York, N. Y., successor. Hosiery. 76,741; renewed Feb. 15, 1930.
Chipman's, Chas., Sons, Easton and Selinsgrove, Pa., to Chas. Chipman's Sons Co., Inc., New York, N. Y., successor. Hosiery. 77,124–5; renewed Mar. 15, 1930.
Chipman's, Chas., Sons, Easton and Selinsgrove, Pa., to Chas. Chipman's Sons Co., Inc., New York, N. Y., successor. Hosiery. 77,201; renewed Mar. 22, 1930.
Chipman's, Chas., Sons, Easton and Selinsgrove, Pa., to Chas. Chipman's Sons Co., Inc., New York, N. Y., successor. Hosiery. 77,296; renewed Mar. 29, 1930.
Clarke Sanding Machine Company, Chicago, Ill. Tools, such as sanding machines. 269,992; Apr. 22; Serial No. 262,699; published Feb. 11, 1930. Class 21.
Cloverdale Spring Company, Baltimore, Md. Maltless beverage. 269,872; Apr. 22; Serial No. 294,143; published Feb. 11, 1930. Class 45.
Code-Portwood Canning Co., Fruitvale, assignor, by mesne assignments, to California Packing Corporation, San Francisco, Calif. Canned fruits and vegetables. 77,202; renewed Mar. 22, 1930.
Cohen, Sidney, New York, N. Y. Vegetable material used as a laxative. 269,900; Apr. 22; Serial No. 292,613; published Feb. 4, 1930. Class 6.
Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Uterine tonic and sedative. 269,922; Apr. 22; Serial No. 286,034; published Feb. 4, 1930. Class 6.
Cole, William H., & Co. Limited, London, to William H. Cole & Co. Limited, Cheltenham, England. Hair pins. 76,577; renewed Feb. 1, 1930.
Colgate-Palmolive-Peet Company, Chicago, Ill. Dental cream. 269,967; Apr. 22; Serial No. 292,793; published Feb. 11, 1930. Class 6.
Concord Canning Co., Stavanger, Norway. Herrings, sardines, anchovies, cod roe, and fish balls. 75,155; renewed Sept. 7, 1929.
Consortium für Elektrochemische Industrie G. m. b. H., Munich, Germany. Synthetic resins, solutions of synthetic resins, and mixtures. 269,961; Apr. 22; Serial No. 289,447; published Feb. 11, 1930. Class 6.
Continental Can Company, Inc., New York, N. Y. Tin cans. 270,018; Apr. 22; Serial No. 276,252; published Feb. 11, 1930. Class 2.
Couderc, Justin, doing business as "Societe Mondiale des Caves de Roquefort," Roquefort, France. Cheese. 269,831; Apr. 22; Serial No. 288,846; published Feb. 11, 1930. Class 46.
Cozy Cover Robe Co. (See Steenburg, Arthur C.)
Crookston Milling Co., Crookston, Minn. Wheat flour. 79,473; renewed Sept. 13, 1930.
Crystal Chemical Company, Inc., The, Bronx, N. Y. Face powders and rouges. 270,036; Apr. 22; Serial No. 280,439; published Feb. 11, 1930. Class 6.
Cushing Grocery Co., Hastings, Nebr. Canned sugar corn, peaches, etc. 269,859; Apr. 22; Serial No. 293,772; published Feb. 11, 1930. Class 46.
Daily Graphic, Inc., New York, N. Y. Series of cartoons or comic strips in daily newspaper. 269,994–5; Apr. 22; Serial Nos. 292,983–4; published Feb. 4, 1930. Class 38.
Daily Graphic, Inc., New York, N. Y. Series of cartoons or comic strips in daily newspaper. 270,013; Apr. 22; Serial No. 292,986; published Feb. 4, 1930. Class 38.
Dana, William B., Company, New York, N. Y. Periodical. 269,848–51; Apr. 22; Serial Nos. 293,409–12; published Feb. 11, 1930. Class 38.
Da Rocha, João M., doing business as J. M. da Rocha Co., San Francisco, Calif. Firecrackers and fireworks. 269,836–7; Apr. 22; Serial Nos. 292,617–8; published Feb. 11, 1930. Class 9.
Davis, Edna C., doing business as Paxette, Brookline Mass. Dishwashers, stoves, hand dryers, etc. 270,016; Apr. 22; Serial No. 277,697; published Feb. 11, 1930. Class 21.
Deferrari, Harry A., Washington, D. C. Columns in a daily publication. 269,840; Apr. 22; Serial No. 293,573; published Feb. 11, 1930. Class 38.
Diamond Crystal Salt Company, St. Clair, Mich. Salt. 78,167; renewed May 31, 1930.
Diamond Match Company, The, Chicago, Ill. Matches. 269,870; Apr. 22; Serial No. 294,215; published Feb. 11, 1930. Class 9.
Diamond Match Company, The, Chicago, Ill. Matches. 269,871; Apr. 22; Serial No. 294,212; published Feb. 11, 1930. Class 9.
Dietrich, Duncan W., doing business as D. W. Dietrich Paper Company, Chicago, Ill. Paper bags. 269,860; Apr. 22; Serial No. 293,724; published Feb. 11, 1930. Class 2.
Dilling & Company, Indianapolis, Ind. Chocolates. 79,328; renewed Aug. 30, 1930.
Douchel Company. (See Millis, Earl R.)
Douglas, Charles C., Cambridge, Mass. Whooping-cough syrup. 269,955; Apr. 22; Serial No. 291,556; published Feb. 11, 1930. Class 6.
Douglass, George, McDonald, Pa. Tonic for indigestion, torpid liver, etc. 270,022; Apr. 22; Serial No. 272,791; published Feb. 4, 1930. Class 6.
Duane Shoe Company, Inc., New York, N. Y. Shoes. 269,820; Apr. 22; Serial No. 292,721; published Feb. 11, 1930. Class 39.
Duncan, Donald F., Chicago, Ill. Bandelore toy spinning tops. 270,039; Apr. 22; Serial No. 293,467; published Feb. 11, 1930. Class 22.
Duplan Silk Corporation, New York, N. Y. Piece goods of silk and rayon and mixtures thereof. 270,051; Apr. 22; Serial No. 294,295; published Feb. 11, 1930. Class 42.
Dwight Lumber Company, River Rouge, Mich. Power-propelled boats. 269,826–7; Apr. 22; Serial Nos. 285,257–8; published Feb. 11, 1930. Class 19.
Dynamite Company of America. (See Adler, Samuel B.)
Economic Lamp Company, Malden, Mass. Incandescent lamps and vacuum or electron tubes. 269,883; Apr. 22; Serial No. 290,458; published Feb. 4, 1930. Class 21.
Electric Storage Battery Company, The, Philadelphia, Pa. Electrical lighting apparatus and storage batteries therefor. 77,626; renewed Apr. 26, 1930.
Electrolux, Inc., New York, N. Y. Clothes-washing machines and parts therefor. 270,025; Apr. 22; Serial No. 284,976; published Feb. 11, 1930. Class 24.
Ellerbroek, John, doing business as The Leech Lake Manufacturing Company, Spencer, Iowa. Fishhook structure. 269,901; Apr. 22; Serial No. 292,451; published Feb. 4, 1930. Class 22.
Endicott Johnson Corporation, Endicott, N. Y. Boots, shoes, and slippers. 269,825; Apr. 22; Serial No. 292,987; published Feb. 11, 1930. Class 39.
Erba, Carlo, assignor to Carlo Erba Societa Anonima, Milan, Italy. Pharmaceutical and toilet preparations and medicines. 77,455; renewed Apr. 12, 1930.
Faatz Felting Co., Lestershire, N. Y., to The Felters Company, Boston, Mass., successor. Saddlery goods. 84,838; renewed July 3, 1930.
Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Lead pencils, rubber erasers, and colored pencils. 269,854; Apr. 22; Serial No. 293,133; published Feb. 4, 1930. Class 37.
Fairchild Aviation Corp., New York, N. Y. Maps and photographs. 269,842–3; Apr. 22; Serial Nos. 293,528–9; published Feb. 11, 1930. Class 38.
Falkingham, Percival B., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 269,952; Apr. 22; Serial No. 291,870; published Feb. 4, 1930. Class 6.
Federated Metals Corporation, The, San Francisco, Calif. Babbitt metal. 269,909–11; Apr. 22; Serial Nos. 290,602–4; published Feb. 4, 1930. Class 14.
Federated Metals Corporation, The, San Francisco, Calif. Wire solder. 270,073; Apr. 22; Serial No. 291,122; published Feb. 4, 1930. Class 14.
Felten & Guilleaume-Lahmeyerwerke Actien-Gesellschaft, by change of name to Felten & Guilleaume Carlswerk Actiengesellschaft, Mulheim-on-the-Rhine, Germany. Wire strings for musical instruments. 76,507; renewed Feb. 1, 1930.
Felters Company, The. (See Faatz Felting Co.)
Fifth Avenue Modes, Inc., New York, N. Y. Periodicals. 270,041; Apr. 22; Serial No. 294,013; published Feb. 11, 1930. Class 38.
Finkelstein Bros. Inc. (See Weiss, Harry B., assignor.)
Fischer Baking Company, Newark, N. J. Bread. 269,869; Apr. 22; Serial No. 294,216; published Feb. 11, 1930. Class 46.
Fishback Company, The, Indianapolis, Ind. Pancake griddles or cake griddles. 269,943; Apr. 22; Serial No. 293,036; published Feb. 11, 1930. Class 13.
Franklin Simon & Co. Inc., New York, N. Y. Perfumes and hygienic products. 269,950; Apr. 22; Serial No. 292,127; published Feb. 4, 1930. Class 6.
Freithofer, Fred F., Pittsburgh, Pa. Disinfectant. 79,117; renewed Aug. 9, 1930.
Gemex Company, Newark, N. J. Watch bracelets, neck chains, etc. 269,928–9; Apr. 22; Serial Nos. 293,216–17; published Feb. 11, 1930. Class 28.
Gemex Company, Newark, N. J. Toilet-powder containers, vanity cases, face-powder and cosmetic boxes, etc. 270,034; Apr. 22; Serial No. 282,033; published Feb. 11, 1930. Class 2.
General Electric Company, Schenectady, N. Y. Electric refrigerating machines and parts thereof. 269,875; Apr. 22; Serial No. 294,001; published Feb. 11, 1930. Class 31.
General Leather Company, Newark, N. J. Leather. 269,920; Apr. 22; Serial No. 293,531; published Feb. 11, 1930. Class 1.
General Mills, Inc. (See Sperry Flour Company, assignor.)
Gerts, B., Incorporated, Jamaica, N. Y. Negligees, corsets, dresses, coats, etc. 270,069; Apr. 22; Serial No. 291,974; published Feb. 4, 1930. Class 39.
Gibbs Preserving Company, assignor to Gibbs & Company, Incorporated, Baltimore, Md. Canned oysters. 77,725; renewed May 3, 1930.
Girl Scouts, New York, N. Y. Shears, scissors, hatchets, etc. 269,973; Apr. 22; Serial No. 294,152; published Feb. 11, 1930. Class 28.
Golden Nugget Sweets, San Francisco, Calif. Candy. 269,832; Apr. 22; Serial No. 290,177; published Feb. 11, 1930. Class 46.

Goldman, Louis, doing business as The L. Goldman Shoe Company, Denver, Colo. Shoes made of leather. 270,062; Apr. 22; Serial No. 292,528; published Feb. 11, 1930. Class 39.
Graff Company, The, Pittsburgh, Pa. Heating apparatus. 78,876; renewed July 19, 1930.
Graphic Arts Corporation, Minneapolis and St. Paul, Minn. Magazines. 269,996; Apr. 22; Serial No. 292,982; published Feb. 11, 1930. Class 38.
Grigsby-Grunow Company, Chicago, Ill. Phonographs. 270,005; Apr. 22; Serial No. 292,666; published Feb. 4, 1930. Class 36.
Grossman Merchandise Corporation, New York, N. Y. Flash lights and dry-cell flash-light batteries. 269,885; Apr. 22; Serial No. 289,677; published Feb. 4, 1930. Class 21.
Ground Gripper Shoe Company, Inc., Boston, Mass. Shoes. 270,068; Apr. 22; Serial No. 292,036; published Feb. 4, 1930. Class 39.
Hair, Hassie S., Osborne, N. C. Medicinal preparation for use in treating blood poisoning, etc. 269,957; Apr. 22; Serial No. 290,700; published Feb. 4, 1930. Class 6.
Hall, Selena D., assignor to S. A. Saxton, Salt Lake City, Utah. Remedies for coughs, cankers, and diphtheria. 76,179; renewed Dec. 21, 1929.
Hanley & Kinsella Coffee & Spice Company, St. Louis, Mo. Blended coffee and tea, flavoring extracts, and spices. 79,279; renewed Aug. 23, 1930.
Hanlon-Buchanan, Incorporated, Tulsa, Okla. Gasoline. 269,930; Apr. 22; Serial No. 293,179; published Feb. 11, 1930. Class 15.
Hanover Cordage Company, Hanover, Pa. Jute wrapping twine and jute miller's twine. 270,052; Apr. 22; Serial No. 294,221; published Feb. 11, 1930. Class 7.
Hassman, Anthon, doing business as The A. V. Hassman Laboratory, Elkhart, Ind. Medicinal mineral compound. 269,913; Apr. 22; Serial No. 290,409; published Feb. 4, 1930. Class 6.
Haynes Stellite Company, The, Kokomo, Ind. Metal alloys. 269,898; Apr. 22; Serial No. 292,938; published Feb. 4, 1930. Class 14.
Haynes Stellite Company, The, Kokomo, Ind. Welding rods and metal alloys. 269,966; Apr. 22; Serial No. 292,934; published Feb. 4, 1930. Class 14.
Hodshon-Berg, Incorporated, Danbury, Conn., and New York, N. Y. Caps and hats. 269,944; Apr. 22; Serial No. 293,579; published Feb. 11, 1930. Class 39.
Home Fertilizer & Chemical Company, assignor to Home Fertilizer Company, Incorporated, Baltimore, Md. Fertilizers. 77,397; renewed Apr. 5, 1930.
Home Fertilizer & Chemical Company, assignor to Home Fertilizer Company, Incorporated, Baltimore, Md. Fertilizers. 77,400; renewed Apr. 5, 1930.
Home Trade Shoe Store, Inc., Minneapolis, Minn. Shoes. 270,028; Apr. 22; Serial No. 283,870; published Feb. 4, 1930. Class 39.
Home Trade Shoe Store, Inc., Minneapolis, Minn. Shoes. 270,029; Apr. 22; Serial No. 283,866; published Feb. 4, 1930. Class 39.
Hook-Tailor, Los Angeles, Calif. Aviation clothing for men and women. 269,821; Apr. 22; Serial No. 292,807; published Feb. 4, 1930. Class 39.
Hunt, Rodney, Machine Co., Orange, Mass. Fulling mills. 269,976; Apr. 22; Serial No. 294,067; published Feb. 11, 1930. Class 23.
Huntington Hotel Company, Pasadena, Calif. Periodical. 269,986; Apr. 22; Serial No. 293,665; published Feb. 11, 1930. Class 38.
Hymes, Simon, Glenwood Springs, Colo. Liniment. 269,906; Apr. 22; Serial No. 292,211; published Feb. 4, 1930. Class 6.
Hyocarbonates Co. (See Walker, Myron L.)
Ichthyol-Gesellschaft, Cordes, Hermanni & Co., Hamburg, Germany, assignor to The Ichthyol Co., Rahway, N. J. Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations. 34,426–7; renewed Apr. 3, 1930.
Illinois Cosmetics Co. (See Western Products Co.)
Illinois Watch Case Company, Elgin, Ill. Watchcases and watch movements. 79,284; renewed Aug. 28, 1930.
Imperial Refining Company, Tulsa, Okla. Gasoline and lubricating oils. 269,887–8; Apr. 22; Serial Nos. 287,874–5; published Feb. 11, 1930. Class 15.
International Products Corporation, New York, N. Y. Canned meats and canned meat products. 269,939; Apr. 22; Serial No. 293,525; published Feb. 11, 1930. Class 46.
International Pulp Company, New York, N. Y. Powder. 78,180; renewed May 31, 1930.
International Shoe Co., St. Louis, Mo. Boots and shoes. 270,064; Apr. 22; Serial No. 292,403; published Feb. 4, 1930. Class 39.
Irwin, Neisler & Co., Decatur, Ill. Vaginal douche. 270,055; Apr. 22; Serial No. 293,978; published Feb. 4, 1930. Class 6.
Jackson Oil Company, Inc., New Orleans, La. Lubricating oil and greases. 269,947; Apr. 22; Serial No. 293,871; published Feb. 11, 1930. Class 15.
Jenkin-Guerin Oil Company, St. Louis, Mo. Lubricating oils, greases, and compounds. 269,882; Apr. 22; Serial No. 291,126; published Feb. 11, 1930. Class 15.
Jimmie's Brincadores Company. (See Pearre, James W.)

Johnson, J. Stanley, Hagerstown, Md. Prophylactic suppositories. 269,971; Apr. 22; Serial No. 293,101; published Feb. 11, 1930. Class 6.
Judsen Rubber Works, Chicago, Ill. Clothing. 270,075; Apr. 22; Serial No. 289,522; published Feb. 11, 1930. Class 39.
Jusrol Pye Crust Co., The, Oklahoma City, Okla. Pie crust. 269,864; Apr. 22; Serial No. 294,358; published Feb. 11, 1930. Class 46.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shoes and slippers. 270,078; Apr. 22; Serial No. 286,179; published Feb. 4, 1930. Class 39.
Kendall Company, The, Boston, Mass., and Chicago, Ill. Analgesic balm, aromatic spirits of ammonia, boric-acid solution, etc. 269,914; Apr. 22; Serial No. 290,025; published Feb. 4, 1930. Class 6.
Kestenbaum, Samuel, and Maurice M. Korn, doing business as Lewis and Clark, Coney Island, N. Y. Sheet music and music books. 270,001; Apr. 22; Serial No. 290,815; published Feb. 4, 1930. Class 38.
Keystone Aircraft Corporation, Bristol, Pa. Flying machines. 269,838; Apr. 22; Serial No. 292,809; published Feb. 11, 1930. Class 19.
King of Clubs, Inc., Newark, N. J. Maltless beverages. 270,033; Apr. 22; Serial No. 282,860; published Feb. 11, 1930. Class 45.
Kings Brewery. (See Piel Bros., Inc.)
Klein, Bert L., doing business as Bernard Laboratories Cleveland, Ohio. Tablets for the relief of rheumatism, etc. 270,057; Apr. 22; Serial No. 293,505; published Feb. 11, 1930. Class 6.
Kline Brothers Co., New York, N. Y. Cotton and linen bed sheets, sheeting, wide sheeting, etc. 270,050; Apr. 22; Serial No. 294,428; published Feb. 11, 1930. Class 42.
Kranis, David, New York, N. Y. Skin-dusting powder. 270,027; Apr. 22; Serial No. 284,912; published Feb. 11, 1930. Class 6.
Kress, S. H., & Co., New York, N. Y. Toilet tissue. 270,048; Apr. 22; Serial No. 293,670; published Feb. 4, 1930. Class 37.
Kroydon Company, The, Maplewood, N. J. Golf clubs. 270,049; Apr. 22; Serial No. 293,473; published Feb. 11, 1930. Class 22.
Laboratoire des Vaccins Pasteur pour l'Etranger. (See Streep, Georges.)
Laboratory Chemicals, Inc., Albany, N. Y. Antifreeze preparation. 269,902; Apr. 22; Serial No. 292,404; published Feb. 4, 1930. Class 6.
Lansing, Abram G., assignor to The A. G. Lansing Company, New York, N. Y. Alkaline salts. 78,981; renewed July 26, 1930.
Larabee Flour Mills Company, The, Kansas City, Mo. Wheat flour. 269,867–8; Apr. 22; Serial Nos. 294,228–9; published Feb. 11, 1930. Class 46.
Leech Lake Manufacturing Company, The. (See Ellerbroek, John.)
Leonard Refrigerator Company, Grand Rapids, Mich. Mechanical refrigerating apparatus. 269,828; Apr. 22; Serial No. 285,568; published Feb. 11, 1930. Class 31.
Levy, M. S., & Sons, Inc., Baltimore, Md. Hats and caps. 270,071–2; Apr. 22; Serial Nos. 291,777–8; published Feb. 4, 1930. Class 39.
Lewis & Clark. (See Kestenbaum, Samuel, and Korn.)
Liandre, Threse, doing business as The Septano Co., Ashland, Wis. Preparation for sores and abrasions. 269,964; Apr. 22; Serial No. 285,569; published Feb. 11, 1930. Class 6.
Limit Engineering Co. Ltd., London, England. Talking machines and parts thereof, and records. 270,077; Apr. 22; Serial No. 288,751; published Dec. 31, 1929. Class 36.
Lindsay Producers Association, assignor to Producers Packing House Company, Lindsay, Calif. Oranges. 77,250; renewed Mar. 22, 1930.
Ludlum Steel Company, Watervliet, N. Y. Alloy steel. 269,972; Apr. 22; Serial No. 294,163; published Feb. 11, 1930. Class 14.
Macfadden Publications, Inc., New York, N. Y. Magazine. 270,047; Apr. 22; Serial No. 293,674; published Feb. 11, 1930. Class 38.
Magnolia Coca Cola Bottling Co., El Paso, Tex. Maltless beverages. 269,866; Apr. 22; Serial No. 294,270; published Feb. 11, 1930. Class 45.
Magnus, Joseph E., doing business as The Auto Truck Food Distributor Publishing Company, Chicago, Ill. Publication. 270,043; Apr. 22; Serial No. 293,927; published Feb. 11, 1930. Class 38.
Maize Shoe Company, Rochester, N. Y. Boots and shoes. 270,023; Apr. 22; Serial No. 271,766; published Apr. 23, 1929. Class 39.
Marcel Guerlain, Inc., New York, N. Y. Lip sticks, face and dusting powder, bath and talcum powder, etc. 269,956; Apr. 22. Serial No. 291,508; published Feb. 4, 1930. Class 6.
May Department Stores Company, The, New York, N. Y. Playing cards. 269,980; Apr. 22; Serial No. 293,626; published Feb. 4, 1930. Class 22.
May Oil Burner Corporation, Baltimore, Md. Pressure-regulating valves. 269,835; Apr. 22; Serial No. 291,928; published Feb. 11, 1930. Class 13.
McCullough's, J. M., Sons Co., The, Cincinnati, Ohio. Seed. 78,619–20; renewed June 28, 1930.

McDonald and Linforth, San Francisco, Calif. Japanese silk gut for fishing lines and leaders. 270,054; Apr. 22; Serial No. 294,078; published Feb. 11, 1930. Class 22.
McIntosh, James M., Buffalo, N. Y. Frozen fruits. 270,038; Apr. 22; Serial No. 278,551; published Feb. 11, 1930. Class 46.
McNish, Robert, & Co., to Robert McNish & Co. Ltd., Glasgow, Scotland, successor. Blend of straight Scotch whiskies. 78,431; renewed June 14, 1930.
Merritt & Merritt Co., Los Angeles, Calif. Hair tonic. 269,921; Apr. 22; Serial No. 287,087; published Feb. 4, 1930. Class 6.
Metropolitan Mfg. & Electric Co., Chicago, Ill. Electric appliances. 270,007; Apr. 22; Serial No. 292,635; published Feb. 4, 1930. Class 21.
Midway Chemical Co., Chicago, Ill. Chemical insect repellents. 269,917; Apr. 22; Serial No. 287,308; published Feb. 4, 1930. Class 6.
Miller, Chester R., Fairport and Rochester, N. Y. Picture section of a newspaper. 269,856; Apr. 22; Serial No. 293,002; published Feb. 11, 1930. Class 38.
Miller & Houghton Inc., New York, N. Y. Dentifrices. 269,905; Apr. 22; Serial No. 292,275; published Feb. 4, 1930. Class 6.
Miller, J. D., doing business as The Miller Drug Co., Bridgewater, Va. Medicinal preparation. 269,962; Apr. 22; Serial No. 288,862; published Feb. 11, 1930. Class 6.
Mills, Earl R., doing business as Douchel Company, Kansas City, Kans. Douche powder. 269,958; Apr. 22; Serial No. 290,659; published Feb. 11, 1930. Class 6.
Montgomery Ward & Co., Incorporated, Chicago, Ill. Dry cells. 269,880; Apr. 22; Serial No. 291,351; published Feb. 4, 1930. Class 21.
Monticello Drug Company, Jacksonville, Fla. Preparation to be used in the treatment of toothache, insect bites, horse colic, etc. 269,951; Apr. 22; Serial No. 292,114; published Feb. 11, 1930. Class 6.
Moore Laboratories, Inc., Trenton, N. J. Medicinal preparation for the relief of pain in the teeth and gums. 269,991; Apr. 22; Serial No. 266,390; published Feb. 4, 1930. Class 6.
Morrison Manufacturing Company, Chicago, Ill. Mechanical refrigerator units. 269,830; Apr. 22; Serial No. 286,789; published Feb. 11, 1930. Class 31.
Motol, Inc., New York, N. Y. Lubricating oils and greases, gasoline, gas oil, and kerosene. 269,928; Apr. 22; Serial No. 293,338; published Feb. 11, 1930. Class 15.
Multi-Fuse Co., Inc., Chicago, Ill. Electrical fuse plugs. 269,879; Apr. 22; Serial No. 291,353; published Feb. 11, 1930. Class 21.
National Carbon Company, Inc., New York, N. Y. Electric batteries. 270,006; Apr. 22; Serial No. 292,604; published Feb. 4, 1930. Class 21.
National Grocer Company, Detroit, Mich. Ammonia and salt. 269,904; Apr. 22; Serial No. 292,278; published Feb. 4, 1930. Class 6.
Neenah Shoe Company, Menasha, Wis. Leather boots and shoes for ladies. 269,823; Apr. 22; Serial No. 292,891; published Feb. 4, 1930. Class 39.
Nekoosa-Edwards Paper Company, Port Edwards, Wis. Kraft paper. 269,847; Apr. 22; Serial No. 293,440; published Feb. 4, 1930. Class 37.
Newark Paraffine & Parchment Paper Co., Newark, N. J. Wax, transparent, and paraffine paper. 269,988; Apr. 22; Serial No. 293,635; published Feb. 4, 1930. Class 37.
Newhall, Henry B., Corporation, Garwood, N. J. Reels and parts thereof. 269,833; Apr. 22; Serial No. 290,190; published Feb. 11, 1930. Class 2.
Newton, John, London, England. Suction cleaners. 269,892; Apr. 22; Serial No. 285,220; published Feb. 11, 1930. Class 21.
New York Tribune, Inc., New York, N. Y. Newspaper page, feature, or section. 269,935; Apr. 22; Serial No. 294,081; published Feb. 11, 1930. Class 38.
Niagara Lubricant Company, Inc., Buffalo, N. Y. Lubricating grease. 269,895; Apr. 22; Serial No. 292,043; published Feb. 4, 1930. Class 15.
North-Mehornay Furniture Co., Kansas City, Mo. Phonographs and phonographs adapted for combination with radio receiving sets. 269,927; Apr. 22; Serial No. 293,229; published Feb. 11, 1930. Class 36.
Northwestern Milling Co. (See Stephenson, John W.)
Norvell-Shapleigh Hardware Company, by change of name to Shapleigh Hardware Company, St. Louis, Mo. Receptacles. 78,731; renewed July 5, 1930.
Nutrolo Co., The, Philadelphia, Pa. Medicated candy and chewing gum. 270,026; Apr. 22; Serial No. 284,915; published Feb. 4, 1930. Class 6.
Ohio Varnish Company, The. (See Warren Paint Company, The, assignor.)
Old Ben Coal Corporation, Chicago, Ill. Coal and briquettes. 269,940; Apr. 22; Serial No. 293,283; published Feb. 11, 1930. Class 1.
Orono Pulp & Paper Company, Bangor, Me. Wrapping and envelope paper. 269,853; Apr. 22; Serial No. 293,151; published Feb. 4, 1930. Class 37.
Orrsell Company, The, New York, N. Y.; Philadelphia, Pa.; and Vancouver, Wash. Identification labels. 270,046; Apr. 22; Serial No. 293,683; published Feb. 11, 1930. Class 38.
Osborn, C. D., Co., Chicago, Ill. Gloves. 270,063; Apr. 22; Serial No. 292,413; published Feb. 4, 1930. Class 39.
Osborn, C. D., Co., Chicago, Ill. Leather, cloth, and knitted gloves. 270,074; Apr. 22; Serial No. 290,590; published Feb. 4, 1930. Class 39.
Oshkosh Brewing Co., Oshkosh, Wis. Beer. 79,442; renewed Sept. 6, 1930.
Pacific States Cast Iron Pipe Company, Provo, Utah. Metal pipe and pipe fittings. 269,938; Apr. 22; Serial No. 293,340; published Feb. 11, 1930. Class 18.
Package Paper Company, Holyoke, Mass. Transparent waxed paper. 269,852; Apr. 22; Serial No. 293,152; published Feb. 4, 1930. Class 37.
Package Paper Company, Holyoke, Mass. Transparent waxed paper. 270,045; Apr. 22; Serial No. 293,685; published Feb. 4, 1930. Class 37.
Page, Howard W., Philadelphia, Pa. Periodical. 269,845; Apr. 22; Serial No. 293,482; published Feb. 11, 1930. Class 38.
Paxette. (See Davis, Edna C.)
Pearre, James W., doing business as Jimmie's Brincadores Company, Nashville, Tenn. Game and including a game board, together with playing pieces in the nature of jumping beans. 269,985; Apr. 22; Serial No. 293,286; published Feb. 4, 1930. Class 22.
Pennsylvania Lubricants Company. (See Carter, Chas C.)
Piel Bros., Inc., doing business as Kings Brewery, Brooklyn, N. Y. Nonalcoholic, cereal, malt beverages. 270,035; Apr. 22; Serial No. 281,688; published Feb. 11, 1930. Class 48.
Pioneer Publishing Company, Oak Park, Ill. Publication. 269,846; Apr. 22; Serial No. 293,446; published Feb. 11, 1930. Class 38.
Pittsburgh Incinerator Co. (See Wyse, Robert T.)
Plummer, John L., doing business as Veleur Co., Los Angeles, Calif. Skin lotion. 269,968; Apr. 22; Serial No. 292,957; published Feb. 4, 1930. Class 6.
Powers Paper Company, Associates, Springfield, Mass., and New York, N. Y., to Powers Paper Company, Associates, Springfield, Mass. Paper, envelopes, and tablets. 79,445; renewed Sept. 6, 1930.
Pratt & Lambert, Inc, Buffalo, N. Y. Varnish. 79,446; renewed Sept. 6, 1930.
Pratt & Lambert, Inc, Buffalo, N. Y. Varnish. 79,520–1; renewed Sept. 13, 1930.
Pratt & Lambert, Inc., Buffalo, N. Y. Liquid drier. 79,522; renewed Sept. 13, 1930.
Producers Packing House Company. (See Lindsay Producers Association, assignor.)
Prometheus Electric Corp., The, New York, N. Y. Electric plate warmers, hot plates, food warmers, etc. 269,877; Apr. 22; Serial No. 291,474; published Feb. 4, 1930. Class 21.
Radium Emanation Corporation, The, New York, N. Y. Bulletin. 269,932–3; Apr. 22; Serial No. 294,179–80; published Feb. 11, 1930. Class 38.
Reed, Jay C., doing business as Reed Home Made Ice Cream Company, Des Moines, Iowa. Ice cream. 269,960; Apr. 22; Serial No. 289,942; published Feb. 4, 1930. Class 46.
Reserve Petroleum Company, Tulsa, Okla. Oils, greases, gasoline, etc. 269,886; Apr. 22; Serial No. 289,322; published Feb. 4, 1930. Class 15.
Rolled Plate Metal Company, New York, N. Y. Copper and zinc photo-engravers' plates. 269,912; Apr. 22; Serial No. 290,524; published Feb. 4, 1930. Class 14.
Roto Corporation, Chicago, Ill. Sandwiches. 269,941; Apr. 22; Serial No. 293,156; published Feb. 11, 1930. Class 46.
Royal Silver Manufacturing Company, Inc., Norfolk, Va. Knives, forks, and spoons. 76,573; renewed Feb. 1, 1930.
Sawyer, Florence B., Chicago, Ill. Shoe and stocking protector. 270,076; Apr. 22; Serial No. 289,869; published Feb. 4, 1930. Class 39.
Saxton, Sarah A. (See Hall, Selena D., assignor.)
Scherk, Ludwig, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 270,056; Apr. 22; Serial No. 293,598; published Feb. 11, 1930. Class 6.
Schrank, M. C., & Company, Bridgeton, N. J. Underwear, corsets, dresses, etc. 270,061; Apr. 22; Serial No. 292,596; published Feb. 11, 1930. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Cream separators. 79,013; renewed July 26, 1930.
Sears, Roebuck and Co., Chicago, Ill. Golf balls. 269,978; Apr. 22; Serial No. 293,696; published Feb. 4, 1930. Class 22.
Selva, James, New York, N. Y. Shoes. 269,822; Apr. 22; Serial No. 292,834; published Feb. 11, 1930. Class 39.
Septano Co., The. (See Liandre, Threse.)
Shapleigh Hardware Company. (See Norvell-Shapleigh Hardware Company.)
Sinclair Automobile Service Corporation, Chicago, Ill. Gasoline, kerosene, etc. 270,011; Apr. 22; Serial No. 292,233; published Feb. 4, 1930. Class 15.
Skinner, William, & Sons, New York, N. Y. Silk crepes in the piece. 269,970; Apr. 22; Serial No. 293,112; published Feb. 11, 1930. Class 42.
"Societe Mondiale des Caves de Roquefort." (See Coudere, Justin.)
Speed Products, Incorporated, Cleveland, Ohio. Electric heaters and scorchers and parts therefor. 269,897; Apr. 22; Serial No. 291,483; published Feb. 4, 1930. Class 21.
Sperry Flour Company, San Francisco, Calif., assignor to General Mills, Inc., Minneapolis, Minn. Certain foods. 77,495; renewed Apr. 12, 1930.

Squibb, E. R., & Sons, New York, N. Y. Citric acid tablets. 270,040; Apr. 22; Serial No. 293,491; published Feb. 11, 1930. Class 6.
Stahl's Outdoor Enterprise Company, Inc., Kansas City, Mo. Periodical. 269,998; Apr. 22; Serial No. 292,293; published Feb. 4, 1930. Class 38.
Stamper, Sidney L., St. Paul, Minn. Prepared and ready-to-serve sandwiches. 269,829; Apr. 22; Serial No. 286,281; published Feb. 11, 1930. Class 46.
Stanard-Tilton Milling Co., Dallas, Tex. Wheat flour. 269,874; Apr. 22; Serial No. 294,124; published Feb. 11, 1930. Class 46.
Standard Imports Limited, Montreal, Quebec, Canada. Maltless beverages and syrups, extracts and concentrates for preparing the same. 270,037; Apr. 22; Serial No. 279,568; published Feb. 11, 1930. Class 45.
Standard Oil Company of New York, New York, N. Y. Petroleum and products of petroleum, mineral wax, candles, etc. 269,894; Apr. 22; Serial No. 292,129; published Feb. 4, 1930. Class 15.
Starrett, L. S., Company, The, assignor to The L. S. Starrett Company, Athol, Mass. Mechanical tools and instruments of precision. 84,604; renewed May 1, 1930.
Steenburg, Arthur C., doing business as Cozy Cover Robe Co., Farmington, Ill. Textile lap robes. 269,969; Apr. 22; Serial No. 293,240; published Feb. 11, 1930. Class 42.
Stein, M., Cosmetic Co., The, New York, N. Y. Cosmetics. 269,953; Apr. 22; Serial No. 291,808; published Feb. 11, 1930. Class 6.
Stephenson, John W., Little Falls, to Northwestern Milling Co., Minneapolis, Minn., successor. Wheat flour. 79,531; renewed Sept. 13, 1930.
Sterrett Drug Company. (See Wells, Howard C.)
Stevens, William, Ltd. (See American News Company, The, assignor.)
Stoeger, A. F., Inc., New York, N. Y. Shotguns, pistols, revolvers, etc. 269,834; Apr. 22; Serial No. 290,722; published Feb. 11, 1930. Class 9.
Stone, Mary O., New York, N. Y. Sanitary belts. 270,015; Apr. 22; Serial No. 292,376; published Feb. 4, 1930. Class 44.
Strathmore Paper Company, Mittineague, Mass. Book, text, and cover paper and mailing envelopes. 270,000; Apr. 22; Serial No. 292,016; published Feb. 11, 1930. Class 37.
Streep, Georges, doing business as Laboratoire des Vaccins Pasteur pour l'Etranger, Paris, France. Chemical compounds. 269,949; Apr. 22; Serial No. 292,471; published Feb. 11, 1930. Class 6.
Strong, F. H., Company, New York, N. Y. Combination of remedial agents. 77,911; renewed May 17, 1930.
Sugarman Smelting & Refining Company, San Francisco, Calif. Metals. 269,984; Apr. 22; Serial No. 293,248; published Feb. 11, 1930. Class 14.
Sukul, Sri Deva Ram, doing business as Benares Incense Company, Chicago, Ill. Incense. 269,915; Apr. 22; Serial No. 289,997; published Feb. 4, 1930. Class 6.
Sydney Ross Co., The, Newark, N. J. Analgesic and counterirritant preparations. 270,060; Apr. 22; Serial No. 293,346; published Feb. 4, 1930. Class 6.
Taylor & Caldwell, Walkerton, Va. Canned vegetables. 269,865; Apr. 22; Serial No. 294,282; published Feb. 11, 1930. Class 46.
Time-O-Stat Controls, Elkhart, Ind. Mercury switches. 269,881; Apr. 22; Serial No. 291,183; published Feb. 4, 1930. Class 21.
Tingue, Brown & Co., New York, N. Y. Cotton cloth. 79,086; renewed Aug. 2, 1930.
Trenton Iron Company, The, Trenton, N. J., and New York, N. Y., assignor to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Wire rope. 78,365; renewed June 7, 1930.
United Drug Company, Boston, Mass. Vacuum bottles. 269,862; Apr. 22; Serial No. 293,563; published Feb. 11, 1930. Class 2.
Universal Producing Company, Fairfield, Iowa. Printed plays and pageants. 269,855; Apr. 22; Serial No. 293,080; published Feb. 11, 1930. Class 38.
Universal Watch Bracelet Manufacturers, Inc., Los Angeles, Calif. Ornamental and watch bracelets. 270,010; Apr. 22; Serial No. 292,377; published Feb. 11, 1930. Class 28.
University Manufacturing & Sales Co. Inc., New York, N. Y. Cigarette-vending stationary machine. 269,916; Apr. 22; Serial No. 288,210; published Feb. 11, 1930. Class 28.
Utilities Sales Corporation, Fergus Falls, Minn. Electrical apparatus. 270,012; Apr. 22; Serial No. 292,188; published Feb. 4, 1930. Class 21.
Van Camp, Gilbert C., San Pedro, Calif. Canned fish, canned fish cake. 269,990; Apr. 22; Serial No. 236,456; published Feb. 11, 1930. Class 46.
Veleur Co. (See Plummer, John L.)
Ward Baking Company, New York, N. Y. Cake, doughnuts, and cookies. 269,936; Apr. 22; Serial No. 293,466; published Feb. 11, 1930. Class 46.
Walker, John, & Sons, Limited, Kilamock, Scotland, and London, assignor to John Walker & Sons, Limited, London, England. Blend of straight Scotch whiskies. 78,556; renewed June 21, 1930.
Walker, Myron L., doing business as Hyocarbonates Co., New York, N. Y. Medical preparation. 269,982; Apr. 22; Serial No. 293,019; published Feb. 4, 1930. Class 6.
Wallace, R., & Sons Manufacturing Company, Wallingford, Conn. Spoons, forks, and knives plated with precious metal. 269,931; Apr. 22; Serial No. 293,118; published Feb. 4, 1930. Class 28.
Walter & Co., Rio de Janeiro, Brazil. Lubricating oils. 269,989; Apr. 22; Serial No. 256,755; published Feb. 28, 1928. Class 15.
Walter, Emile H., New Orleans, La. Gasoline, lubricating oils and greases, etc. 269,891; Apr. 22; Serial No. 285,488; published Feb. 11, 1930. Class 15.
Wanamaker, John, New York, New York, N. Y. Gloves. 79,019; renewed July 26, 1930.
Wanamaker, John, assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Certain clothing. 77,384; renewed Apr. 5, 1930.
Warren Brothers Company, Boston, to Warren Brothers Company, Cambridge, Mass. Pavements and paving material. 78,559; renewed June 21, 1930.
Warren Paint Company, The, Warren, assignor to The Ohio Varnish Company, Cleveland, Ohio. White lead. 77,361; renewed Mar. 29, 1930.
Waterfalls Paper Mills, Mechanic Falls, Me., and New York, N. Y. Bond and writing paper. 269,987; Apr. 22; Serial No. 293,647; published Feb. 4, 1930. Class 37.
Waverly Oil Works Company, Pittsburgh, Pa. Gasoline. 270,009; Apr. 22; Serial No. 292,428; published Feb. 4, 1930. Class 15.
Weiss, Harry B., doing business as Wise Hat Co., New York, assignor to Finkelstein Bros. Inc., New York, N. Y. Hats and caps for men. 269,946; Apr. 22; Serial No. 293,121; published Feb. 4, 1930. Class 39.
Wellington-Stone Company, Chicago, Ill. Electric lamps, electric-lamp standards and bases. 269,896; Apr. 22; Serial No. 292,020; published Feb. 11, 1930. Class 21.
Wells, Howard C., doing business as Sterrett Drug Company, Calera, Okla. Medicinal preparation for the treatment of eczema. 269,918; Apr. 22; Serial No. 285,130; published Feb. 4, 1930. Class 6.
Western Products Co., doing business as Illinois Cosmetics Co., Chicago, Ill. Liquid mouth wash, gargle, and spray for nose and throat, etc. 270,059; Apr. 22; Serial No. 293,391; published Feb. 4, 1930. Class 6.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Supervisory control systems. 269,884; Apr. 22; Serial No. 290,164; published Feb. 11, 1930. Class 21.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Friction tape. 269,924–5; Apr. 22; Serial Nos. 293,301–2; published Feb. 11, 1930. Class 21.
Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. 270,008; Apr. 22; Serial No. 292,429; published Feb. 4, 1930. Class 15.
Williams Edwards Company, The, Cleveland, Ohio. Certain foods. 76,705; renewed Feb. 8, 1930.
Willson Flying Corporation, New York, N. Y. Rocket-engine starters. 269,937; Apr. 22; Serial No. 293,393; published Feb. 11, 1930. Class 9.
Wilson, Clyde L., San Francisco, Calif. Powder puffs. 269,839; Apr. 22; Serial No. 292,918; published Feb. 11, 1930. Class 29.
Wilson, H. A., Company, The, Newark, N. J. Precious metals, precious metals partly formed, and precious-metal alloys. 269,985; Apr. 22; Serial No. 293,122; published Feb. 4, 1930. Class 14.
Wise Hat Co. (See Weiss, Harry B.)
Wolfson, Samuel J., doing business as All Electric Refrigerator Company, Malden, Mass. Electric refrigerators. 269,873; Apr. 22; Serial No. 294,130; published Feb. 11, 1930. Class 31.
Wood, Thomas, & Co., to Berry, Dodge Company, Boston, Mass., successor. Tea. 76,085; renewed Dec. 14, 1929.
Worcester Lawn Mower Company, Worcester, Mass. Lawn mowers. 269,919; Apr. 22; Serial No. 287,100; published Feb. 11, 1930. Class 28.
Worth, Paris, France. Perfumes. 269,908; Apr. 22; Serial No. 290,773; published Feb. 4, 1930. Class 6.
Wyeth Chemical Company, Jersey City, N. J. Granular effervescent salts. 269,954; Apr. 22; Serial No. 291,751; published Feb. 11, 1930. Class 6.
Wyse, Robert T., doing business as Pittsburgh Incinerator Co., Pittsburgh, Pa. Incinerators. 269,858; Apr. 22; Serial No. 293,804; published Feb. 11, 1930. Class 34.
Young, Guy K., doing business as Architects' File Service, Los Angeles, Calif. Filing index systems. 270,003; Apr. 22; Serial No. 288,532; published Feb. 4, 1930. Class 37.
Zenith Radio Corporation, Chicago, Ill. Radio receiving sets and parts thereof and apparatus. 270,020; Apr. 22; Serial No. 278,789; published Dec. 31, 1929. Class 21.
Zetex Corporation, Tacoma, Wash. Paper commode-seat covers and paper towels. 270,002; Apr. 22; Serial No. 288,630; published Feb. 4, 1930. Class 37.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Ashworth Advertising Company, Incorporated, New York, N. Y. Golden Pheasant. For Automobile Polish. 37,348; Apr. 22.

Baker, William C., doing business as Bill Baker, Ojai, Calif. Limabeen Toast. For Toast. 37,349; Apr. 22.

Baron, H., & Company Inc., Brooklyn, N. Y. New Amsterdam. For Crushed Fruits. 37,350; Apr. 22.

Baron, H. & Company Inc., Brooklyn, N. Y. New Amsterdam. For Fountain Syrups. 37,351; Apr. 22.

Bradentown Citrus Growers Association, Bradentown, Fla. Spinning Whel. For Fresh Citrus Fruits. 37,352; Apr. 22.

Brundage Brothers Company, The, Toledo, Ohio. Honey Bee Hive. For Honey and Peanut Butter. 37,353; Apr. 22.

Connell, Daniel A., Chicago, Ill. The Peak of Perfection. For Cheese. 37,354; Apr. 22.

Freihofer, Chas., Baking Co. Inc., Troy, N. Y. Freihofer's Raisin Whole Wheat Loaf. For Bread. 37,355; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Spinach. For Strained Spinach. 37,356; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Tomatoes. For Strained Tomatoes. 37,357–8; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Spinach. For Strained Spinach. 37,359; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Celery Soup. For Strained Celery Soup. 37,360; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Beets. For Strained Beets. 37,361; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Wax Beans. For Strained Wax Beans. 37,362; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Peas. For Strained Peas. 37,363; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Apple Sauce. For Strained Apple Sauce. 37,364; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Vegetable Soup. For Strained Vegetable Soup. 37,365; Apr. 22.

Fruit Belt Preserving Company, East Williamson, N. Y. Pixie Strained Carrots. For Strained Carrots. 37,366; Apr. 22.

General Candy Corporation, Chicago, Ill. Big Alarm. For Candy. 37,367; Apr. 22.

Goodyear's India Rubber Glove Mfg. Co., Naugatuck, Conn. Glove Brand. For Storm Footwear. 37,368; Apr. 22.

Hall Brothers, Norwich, Conn. Hall Bros. For Woolen Goods. 37,369; Apr. 22.

Hamilton, John D., Co., Tacoma, Wash. Talkie. For Candy. 37,370; Apr. 22.

King Fuller Crandell Co., Chicago, Ill. King Pick. For Sweet Mixed Pickles. 37,371; Apr. 22.

Larvex Corporation, The, New York, N. Y. Larvex. For Mothproofing Compound. 37,372; Apr. 22.

Lewis Bros., Inc., New York, N. Y. Vitalis. For Hair Tonic. 37,373–4; Apr. 22.

Life Savers, Inc., Port Chester, N. Y. Life Savers. For Packaged Confectionery. 37,375; Apr. 22.

Malarin, Enrique, San Francisco, Calif. Instant Type Cleaner and Rubber Platen Renewer. For a Preparation for Cleaning Typewriter Type and for Renewing Rubber Platen. 37,376; Apr. 22.

Manischewitz, B., Company, The, Cincinnati, Ohio. Manischewitz's Whole Wheat Matzo Meal. For Matzo Meal. 37,377; Apr. 22.

Mannings Inc., San Francisco, Calif. Mannings Tea Refreshing as the Dawn. For Tea. 37,378; Apr. 22.

Mannings Inc., San Francisco, Calif. Mannings Tea Refreshing as the Dawn. For Tea. 37,379; Apr. 22.

Marie, Peter C., doing business as "Marie" Manufacturing Co., Pittsburgh, Pa. Lilliac. For Toilet Water. 37,380; Apr. 22.

Martoccio, F. A., Company, Minneapolis, Minn. Milk Shake. For Candy Bars. 37,381; Apr. 22.

Messinger, Charles, Rochester, N. Y. Original Canadian. For Barley Malt Syrup. 37,382; Apr. 22.

Organ-Iron Laboratories, Omaha, Nebr. F & F Cough Lozenges. For Cough Lozenges. 37,383; Apr. 22.

Rino Laboratories Co., Los Angeles, Calif. Rino. For Orange Salt. 37,384; Apr. 22.

Taglianetti, Attilio, Philadelphia, Pa. Marcelade. For Marcel-Waving Preparation. 37,385; Apr. 22.

Tropical Vitamin Co., Inc., The, Orlando, Fla. Vitabar. For Candy Confection. 37,386; Apr. 22.

Whiles, Fred. W., Los Angeles, Calif. Maypole Sweets. For Maypole Sweets, a Confection. 37,387; Apr. 22.

Wilson, George C., doing business as The Wilson Chemical Company and The Wilson Products Company, Tyrone, Pa. Wilson's Large Carton. For Honey Butter Scotch (a Confection). 37,388; Apr. 22.

Wilson, George C., doing business as The Wilson Chemical Company and The Wilson Products Company, Tyrone, Pa. Wilson's (Small Carton). For Honey Butter Scotch (a Confection). 37,389; Apr. 22.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Friendship. For Perfumes, Cleansing Cream, Skin Tonic, Special Astringent, and Muscle Oil. 12,484; Apr. 22.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Dreams. For Perfume. 12,485; Apr. 22.

Haecker, Paul J., Construction Co., Detroit, Mich. Paul J. Haecker Construction Co. For Garages. 12,486–9; Apr. 22.

Hilsenbeck, L., Inc., New York, N. Y. Sphinx. For Prophylactic Rubber Articles for Prevention of Contagious Diseases. 12,490; Apr. 22.

Hilsenbeck, L., Inc., New York, N. Y. 300% Profit. For Prophylactic Rubber Articles for Prevention of Contagious Diseases. 12,491; Apr. 22.

Hilsenbeck, L., Inc., New York, N. Y. Ramses—Original Transparent. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. 12,492; Apr. 22.

Hilsenbeck, L., Inc., New York, N. Y. Ramses. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. 12,493; Apr. 22.

Hilsenbeck, L., Inc., New York, N. Y. Apollos. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. 12,494; Apr. 22.

Hoffman Beverage Company, Newark, N. J. Already the Toast of Philadelphia. For Nonalcoholic Drinks and Beverages. 12,495; Apr. 22.

Philadelphia Memorial Art Co., Philadelphia, Pa. In Memory of Our Dearly Beloved. For Memorial Certificate. 12,496; Apr. 22.

Western States Auto Awning Company, Los Angeles, Calif. B & J Auto Awnings. For Automobile Awnings. 12,497; Apr. 22.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20. 1905. Sec. 6. as amended Mar. 2, 1907]

Aerovox Wireless Corporation, Brooklyn, N. Y. Trade publication. 297,118; Apr. 22. Class 38.

American Crayon Company, The, Sandusky, Ohio. Crayons. 296,565; Apr. 22. Class 37.

American Hosiery Company, New Britain, Conn. Knitted and woven goods. 296,942; Apr. 22. Class 39.

American Paper Exports, Inc., New York, N. Y. Ledger, bond, millboard, writing, and Bristol paper, etc. 296,849; Apr. 22. Class 37.

American Yvette Company, Inc., New York, N. Y. Hair-waving machines and elements. 295,852; Apr. 22. Class 44.

Apostleship of Prayer, New York, N. Y. Magasines. 297,168; Apr. 22. Class 38.

Archer, A. W., Co., Inc., New York, N. Y. Yarn and machine thread. 297,054; Apr. 22. Class 48.

Armor Metal Products Co., The, Cincinnati, Ohio. Household and office furniture. 289,956; Apr. 22. Class 32.

Armstrong Cork Company, Pittsburgh, Pa. Gaskets, washers, and packing. 278,277; Apr. 22. Class 35.

Arrowwood, S. D., & Co. Inc., New York, N. Y. Hosiery. 296,943; Apr. 22. Class 39.

Asbestos Limited Inc., New York, N. Y. Asbestos board. 296,851; Apr. 22. Class 12.

PUBLISHED FOR OPPOSITION

[Act of Feb, 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Aegis, Alfred J., assignor to Stomatologic Reference Library, Inc., New York, N. Y. Quarterly publication. 282,220; Apr. 22. Class 38.

Ash, John A., doing business as Pyorrhea Stop Company, Savannah, Ga. Dentifrice and preparation for treating pyorrhea. 296,251; Apr. 22. Class 6.

Ashe Manufacturing Corp., Rensselaer and New York, N. Y. Knitted fabrics. 294,659; Apr. 22. Class 42.

Associated Apparel Industries, Inc., Chicago, Ill. Corsets, step-ins, bandeaux, etc. 294,840; Apr. 22. Class 39.

Averill Co. Inc., The, New York, N. Y. Dolls. 297,225; Apr. 22. Class 22.

Babbitt, B. T., Inc., New York, N. Y. Lye. 294,564; Apr. 22. Class 6.

Babbitt, B. T., Inc., New York, N. Y. Lye. 294,566; Apr. 22. Class 6.

Bachmann, Robert A., doing business as The Sanitube Company, Newport, R. I. Medicinal ointment. 295,884; Apr. 22. Class 6.

Balmer, J. H., Co., Newark, N. J. China bathroom fixtures. 296,216; Apr. 22. Class 18.

Basford, Napoleon O., doing business as United Chemical Company, Akron, Ohio. Ready-mixed paints, floor waves, furniture and floor polish, etc. 287,105; Apr. 22. Class 16.

Beach & Arthur, Inc., Indianapolis, Ind. Paper napkins and tablecloths. 296,897; Apr. 22. Class 37.

Beer & Davies, New York, N. Y. Eggs. 278,121; Apr. 22. Class 46.

Beirne, F. Gilson, Philadelphia, Pa. Liquid preparation used as a hair remover. 296,478; Apr. 22. Class 6.

Beneat Sales Company. (See Hagler, Irving.)

Bercy Laboratories. (See Fleron, M. M., & Son.)

Better Maid Products Co. (See Donelson and Poston.)

Bledsoe, Walter, & Company, Terre Haute, Ind. Coal. 297,227; Apr. 22. Class 1.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 297,295; Apr. 22. Class 42.

Bordeaux Clothing Co., Inc., New York, N. Y. Outer clothing, sport coats, hats, etc. 296,628; Apr. 22. Class 39.

Botfield Refractories Company, Philadelphia, Pa. Refractory material. 297,356–7; Apr. 22. Class 12.

Brandmeier, August, Corporation, New York, N. Y. Hand cleanser. 296,476; Apr. 22. Class 4.

Brooks, Howard, Weybridge, England. Tennis and the like rackets for playing games. 295,998–9; Apr. 22. Class 22.

Brucker, Elias, New York, N. Y. Motion-picture films. 295,554; Apr. 22. Class 26.

Burbon Laboratories. (See De Keyzer, John C.)

California Macaroni Company, San Francisco, Calif. Spaghetti, vermicelli, and macaroni. 294,142; Apr. 22. Class 46.

California Packing Corporation, San Francisco, Calif. Baking powder and salt. 295,655; Apr. 22. Class 6.

Campderá, José, Mexico, Mexico. Dentifrice, tooth wash, tooth paste, and perfumes. 275,827; Apr. 22. Class 6.

Carborundum Company, The, Niagara Falls, N. Y. Grinding machines and parts thereof, polishing machines and parts thereof, etc. 294,415; Apr. 22. Class 28.

Carnegie Dock & Fuel Company, Minneapolis, Minn. Coal. 297,002; Apr. 22. Class 1.

Central Ohio Paper Company, The, Columbus, Ohio. Printing and announcement paper. 296,656; Apr. 22. Class 37.

Chattanooga Medicine Company, The, Chattanooga, Tenn. Medicinal douche preparation. 292,520; Apr. 22. Class 6.

Chemische und Biologische Laboratories Dr. Boerlage G. m. b. H., Wiesbaden, Germany. Perfumes. 296,018; Apr. 22. Class 6.

Chicago Rotoprint Company, Chicago, Ill. Publication. 296,857; Apr. 22. Class 38.

Chicago Times Company. (See Journal Company, The.)

Chock-Horowitz Company, New York, N. Y. Pajamas. 292,253; Apr. 22. Class 39.

Church & Dwight Co. Inc., New York, N. Y. Washing soda. 295,887; Apr. 22. Class 6.

Citizens Radio Service Bureau, Chicago, Ill. Radio industry in magazine form. 295,725; Apr. 22. Class 38.

City Cordage & Paper Corp., New York, N. Y. Wrapping paper. 296,502; Apr. 22. Class 37.

Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 296,397; Apr. 22. Class 4.

Colorado Milling & Elevator Co., The, doing business as Hungarian Flour Mills, Denver, Colo. Wheat flour. 295,888; Apr. 22. Class 46.

Commander Milling Company, Minneapolis, Minn. Wheat flour. 297,058; Apr. 22. Class 46.

Consolidated Press Association, Washington, D. C. Newspaper articles. 297,176; Apr. 22. Class 38.

Cooper, William, & Nephews, Incorporated, Chicago, Ill. Flea and lice preparation for animals. 291,909; Apr. 22. Class 6.

Creo-Dipt Company, Inc., North Tonawanda, N. Y. Built-in ironing boards. 295,116; Apr. 22. Class 24.

Cyclops Steel Company, Inc., Titusville, Pa. Nitriding steel. 295,660; Apr. 22. Class 14.

Davidson, David A., doing business as Hantine Lab., New York, N. Y. Face powder, rouge, lip stick, etc. 295,784; Apr. 22. Class 6.

Dearing, Arthur A., Bloomfield, N. J. Photographs. 286,981; Apr. 22. Class 38.

Dedenbach Chemical Company, Detroit, Mich. Eczema medicine. 296,894; Apr. 22. Class 6.

"Degewop" Gesellschaft Wissenschaftlicher Organpraeparate A. G., Berlin, Germany. Medicinal preparation. 292,490; Apr. 22. Class 6.

De Keyzer, John C., doing business as The Burbon Laboratories, Spokane, Wash. Liniments. 294,964; Apr. 22. Class 6.

Delco-Light Company, Dayton, Ohio. Apparatus for generating and supplying gas. 294,060; Apr. 22. Class 34.

De Sanno, Albert J., jr., doing business as A. P. de Sanno & Son, Philadelphia, Pa. Cut-off and grinding machines utilizing abrasive wheels. 280,058; Apr. 22. Class 23.

Dickinson Fuel Company, Charleston, W. Va. Coal. 295,728; Apr. 22. Class 1.

Dojan, Oscar, Temple, Pa. Hosiery. 296,485; Apr. 22. Class 39.

Donelson and Poston, doing business as Better Maid Products Co., Memphis, Tenn. Canned fruits, vegetables, fish, etc. 268,853; Apr. 22. Class 46.

Dressner, Phil, & Co., Inc., New York, N. Y. Hats. 296,802; Apr. 22. Class 39.

Duplan Silk Corporation, New York, N. Y. Piece goods. 296,587; Apr. 22. Class 42.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Wood stains, fillers, dry colors. 296,826; Apr. 22. Class 16.

Durand Company, doing business as H. N. Fish Co., Cambridge, Mass. Candy. 296,402; Apr. 22. Class 46.

Durex Products Inc., New York, N. Y. Pessaries. 296,403; Apr. 22. Class 44.

Eastman Kodak Company, Rochester, N. Y. Chemical outfits. 297,179; Apr. 22. Class 6.

Easton Publishing Company, Easton, Pa. Newspapers or periodicals. 295,334; Apr. 22. Class 38.

Eaton, Crane & Pike Company, Pittsfield, Mass. Papeteries, correspondence cards, writing tablets, etc. 294,872; Apr. 22. Class 37.

Emblem Manufacturing Company, Angola, N. Y. Bicycles. 289,455; Apr. 22. Class 19.

Endicott Johnson Corporation, Endicott, N. Y. Hosiery. 296,179; Apr. 22. Class 39.

Esper Products Co. (See Quartetti, Leonard.)

Eureka System of Child Education, The. (See Rogers, Beatrice M. F.)

Europa Malt Syrup Co. (See Pabst Corporation.)

Farboil Paint Company. (See Swarts, Milton D.)

Fay Metal Patch Company, The, Cleveland, Ohio. Liquid preservative for steel and wrought iron. 260,882; Apr. 22. Class 6.

First National Stores Inc., Boston and Somerville, Mass. Washboards. 295,662; Apr. 22. Class 24.

First National Stores Inc., Boston and Somerville, Mass. Coffee. 296,055; Apr. 22. Class 46.

Fish, H. N., Co. (See Durand Company.)

Flashy Frocks, Inc., New York, N. Y. Dresses. 296,415; Apr. 22. Class 39.

Fleron, M. M., & Son, Inc., doing business as Bercy Laboratories, Trenton, N. J. Hair tonics. 296,640; Apr. 22. Class 6.

Floral City Furn. Co., Monroe, Mich. Chairs. 292,085; Apr. 22. Class 32.

Foremost Fabrics Corporation, New York, N. Y. Silk piece goods. 287,404; Apr. 22. Class 42.

Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 293,545; Apr. 22. Class 42.

Fried. Krupp Aktiengesellschaft, Essen, Germany. Points for compasses and calipers, end measuring rods, slide gauges, etc. 288,998; Apr. 22. Class 26.

Fries, Harold H., doing business as Fries Bros., New York, N. Y. Germicide and fungicide. 296,642; Apr. 22. Class 6.

Fromm Brothers, Inc., Hamburg, Wis. Fox pelts. 294,476; Apr. 22. Class 1.

Gatti, Louis, Brooklyn, N. Y. Rubber heels. 296,116; Apr. 22. Class 39.

Gemex Company, Newark, N. J. Clocks, watches, watchcases, etc. 296,333; Apr. 22. Class 27.

Ginsberg, Richard, doing business as Oleomangan Pharmacal Co., New York, N. Y. Emulsion of olive oil, petroleum oil, and peptonates of iron and manganese. 293,041; Apr. 22. Class 6.

Goldberg, Bertram, Johnstown, N. Y. Warped knit fabrics. 296,224; Apr. 22. Class 42.

Goudey Gum Co., The, Boston, Mass. Chewing gum. 296,520; Apr. 22. Class 46.

Greif, L., & Bro., Incorporated, Baltimore, Md. Topcoats, overcoats, coats, etc. 296,521; Apr. 22. Class 39.

Growers Relief Co. (See Smith, Rowan D.)

Grumbacher, M., New York, N. Y. Paint boxes containing artists' paints. 278,930; Apr. 22. Class 16.

Hagler, Irving, doing business as Beneat Sales Company, New York, N. Y. Alcoholic tonic. 296,522; Apr. 22. Class 6.

Hall China Co., East Liverpool, Ohio. Fireproof china teapots, coffeepots, etc. 295,844; Apr. 22. Class 80.

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Hall Electric Heating Company, Inc., Philadelphia, Pa. Temperature-control valves. 295,898; Apr. 22. Class 18.
Halpen, Green & Co., Philadelphia, Pa. Canned fruits and vegetables, shrimp, etc. 269,460; Apr. 22. Class 46.
Hantise Lab. (See Davidson, David A.)
Harmony. (See United Drug Company.)
Harrower Laboratory, Inc., The, Glendale, Calif. Preparation containing a principle with a specific influence on sexual maturity and the ripening of the Graafian follicles. 297,129; Apr. 22. Class 6.
Hartford Steel Ball Company, The, Hartford, Conn. Metal balls for bearings and other purposes. 294,723; Apr. 22. Class 28.
Health-O Quality Products Co., The, Cincinnati, Ohio. Office bulletins or house organs. 296,186; Apr. 22. Class 38.
Healy, J. Henry, Philadelphia, Pa. Antiseptics. 296,187; Apr. 22. Class 6.
Herbert & Company, Detroit, Mich. Metal display and advertising signs, directory boards, and name plates. 295,593; Apr. 22. Class 50.
Herschel, Grushow & Goldberg, Inc., New York, N. Y. Dresses. 296,808; Apr. 22. Class 39.
Hewitt-Gutta Percha Rubber Corporation, Buffalo, N. Y. Fire hose. 295,165; Apr. 22. Class 35.
Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 297,130–2; Apr. 22. Class 22.
Hillerich & Bradsby Co., Louisville, Ky. Baseball bats. 297,134–5; Apr. 22. Class 22.
Hills Brothers Company, The, New York, N. Y. Canned grapefruit. 292,324; Apr. 22. Class 46.
Home Drug Co. (See Pfeiffer, S., Mfg. Co.)
Hoonan, Frank H., North Bergen, N. J. Printed business blanks, forms, strips, and cards. 295,792; Apr. 22. Class 37.
Horton Manufacturing Company, Fort Wayne, Ind. Ironing machines. 295,736; Apr. 22. Class 24.
Howe Folding Furniture, Inc., New York, N. Y. Articles of furniture. 296,647; Apr. 22. Class 32.
Hozó, Ladislaus, New York, N. Y. Mouse and rat exterminating food. 296,124; Apr. 22. Class 6.
Huiber, Frank, Denver, Colo. Cake. 296,347; Apr. 22. Class 46.
Hungarian Flour Mills. (See Colorado Milling & Elevator Co., The.)
Hunt, Helm, Ferris & Co., Harvard, Ill. Airplane swings for children. 279,279; Apr. 22. Class 22.
Hyde Manufacturing Company, Southbridge, Mass. Trestles and tables for paper hangers and paste boards. 293,835; Apr. 22. Class 50.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Knitted, netted, and textile fabrics of artificial silk. 294,072; Apr. 22. Class 42.
Imperial Oil & Gas Products Company, Pittsburgh, Pa. Carbon black. 297,080; Apr. 22. Class 6.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Bulk candy, peanut butter, sugar, etc. 275,056; Apr. 22. Class 46.
International Visible Systems Corporation, Cincinnati, Ohio. Record books and binders. 296,648; Apr. 22. Class 37.
Italian Importing Company, Spokane, Wash. Olive oil. 297,014; Apr. 22. Class 46.
Jackson, Lloyd E., doing business as Jackson Products Co., Dayton, Ohio. Potato salad, corn-meal mush, horseradish, etc. 293,974; Apr. 22. Class 46.
Jeffrey Manufacturing Co., The, Columbus, Ohio. Elevating and conveying chains and buckets. 297,252; Apr. 22. Class 23.
Johnson, A. M., Mills, Incorporated, Dover, Del. Threads and yarns. 297,253; Apr. 22. Class 48.
Journal Company, The, Chicago, Ill., now, by change of name, The Chicago Times Company. Newspapers. 289,521; Apr. 22. Class 38.
K. K. Crystal Company, Incorporated, New York, N. Y. Watch crystals. 294,976–8; Apr. 22. Class 33.
Kali Manufacturing Co., Philadelphia, Pa. Conditioning solution for treating silk and artificial silk. 296,602; Apr. 22. Class 6.
Keystone Coal & Mining Co., Chicago, Ill. Coal. 295,264; Apr. 22. Class 1.
Kiger, C. A., Company, The, Kansas City, Mo. Cut precious stones. 294,582; Apr. 22. Class 28.
King Card Company, Philadelphia, Pa. Engraved cards. 275,058–60; Apr. 22. Class 38.
Kohrs Packing Company, Davenport, Iowa. Lard, sausage, and cottage butts. 295,679; Apr. 22. Class 46.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Lye, borax, washing soda, etc. 296,531; Apr. 22. Class 6.
Lampen- und Metallwarenfabriken R. Ditmar Gebrüder Brünner A. G., Vienna, Austria. Lamps, lanterns, cooking and heating stoves, and ranges, etc. 282,866; Apr. 22. Class 34.
Larrowe Milling Company, The, Detroit, Mich. Wheat flour. 297,311; Apr. 22. Class 46.
Liebovitz, S., & Sons, Inc., New York, N. Y. Negligee shirts. 296,970; Apr. 22. Class 39.
Lopez, Manuel S., doing business as M. Sosa Lopez & Co., New York, N. Y. Bay rum. 293,733; Apr. 22. Class 6.
Lowenstein, M., & Sons, Inc., New York, N. Y. Cotton, rayons, and silk piece goods, etc. 294,812; Apr. 22. Class 42.
Lucilles' Products Co., assignor to Lucilles' Products Co., Minneapolis, Minn., Silk rinse. 294,430; Apr. 22. Class 6.
Luki-Find Paint Remover Company. (See Metzner, Alfred S.)
M M Importing Co. (See Thompson, Phillips B.)
Mandel, William, doing business as The Porcedent Denture Company, New York, N. Y. Dental plate material. 296,234; Apr. 22. Class 44.
Mann Chemical Co. (See Zeigerman, Benjamin.)
Martin, J. B., Company, Norwich, Conn. Pile-fabric piece goods. 297,257; Apr. 22. Class 42.
McGreevey, Werring & Howell, Inc., New York, N. Y. Coats, suits, and dresses. 296,072; Apr. 22. Class 39.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Preparation for external application. 296,761; Apr. 22. Class 6.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Deodorant. 296,877; Apr. 22. Class 6.
Merribew, John A., doing business as Prosperity Sales Service, New Orleans, La. Detergent dry-cleaning soap. 296,709; Apr. 22. Class 4.
Metzner, Alfred S., doing business as Luki-Find Paint Remover Company, Tampa, Fla. Liquid paint remover and furniture polish. 297,262; Apr. 22. Class 16.
Meyers, Clarence L., Inc., Philadelphia, Pa. Cotton yarn. 297,263; Apr. 22. Class 43.
Miller-Smith Hosiery Mills, Chattanooga, Tenn. Hosiery. 285,213; Apr. 22. Class 39.
Monte Vista Citrus Association, Riverside, Calif. Fresh citrus fruits. 253,170; Apr. 22. Class 46.
Moore & Lunn, Falmouth, Mass. Fungicide and insecticide preparations. 296,710; Apr. 22. Class 6.
Morgan & Company, Hermon, N. Y. Liquid preparation for use as an inhalant. 297,266; Apr. 22. Class 6.
Morrell, John, & Co., Ottumwa, Iowa. Canned ham. 296,763; Apr. 22. Class 46.
N. V. Nederlandsche Kunstzijdefabriek, Arnhem, Netherlands. Artificial-silk yarns. 284,278; Apr. 22. Class 43.
National Gary Corporation, New York, N. Y. Hair nets. 297,144; Apr. 22. Class 42.
National Oil Products Company, Harrison, N. J. Poultry and stock foods. 296,542; Apr. 22. Class 46.
New Era Milling Company, The, Arkansas City, Kans. Wheat flour. 297,204; Apr. 22. Class 46.
Newell Mfg. Co., Inc., The, Ogdensburg, N. Y. Metal curtain rods. 296,285; Apr. 22. Class 13.
New York Merchandise Co. Inc., New York, N. Y. Combs. 295,633; Apr. 22. Class 40.
North American Dye Corporation, Mount Vernon, N. Y. Preparation for removing colors. 296,544; Apr. 22. Class 6.
Northwestern Leather Company Trust, Boston, Mass. Leathers. 295,859; Apr. 22. Class 1.
Northwestern Leather Company Trust, Boston, Mass. Leathers. 295,862; Apr. 22. Class 1.
Nu-Craft Hosiery Mills, Inc., Mohaton, Pa. Hosiery. 296,766; Apr. 22. Class 39.
Oberman, D. M., Mfg. Co., Jefferson City, Mo., and New York, N. Y. Trousers and shirts. 295,749; Apr. 22. Class 39.
Oleomangan Pharmacal Co. (See Ginsberg, Bernard.)
Osborn, Nettie, Joplin, Mo. Liniment for goiters. 280,344; Apr. 22. Class 6.
Pabst Corporation, doing business as Europa Malt Syrup Co., Milwaukee, Wis. Malt syrup. 297,146; Apr. 22. Class 46.
Pacatome Company, San Francisco, Calif. Diatomaceous silica. 288,975; Apr. 22. Class 1.
Page-Madden Company, Inc., Brooklyn, N. Y. Publication. 297,268; Apr. 22. Class 38.
Parafoti, Joe, doing business at Parafoti Shoe Repairing Co., New York, N. Y. Leather shoes, soles, heels. 288,720; Apr. 22. Class 39.
Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Chemical compounds used for improving the strength and color of flour. 297,031; Apr. 22. Class 6.
Perdomo, Rafael R., New York, N. Y. Stain remover. 286,336; Apr. 22. Class 4.
Perry & Company, Philadelphia, Pa. Suits and overcoats. 292,122; Apr. 22. Class 39.
Pfeiffer, S., Mfg. Co., doing business as Home Drug Co., St. Louis, Mo. Medicinal preparations. 296,609; Apr. 22. Class 6.
Philippe, Louis, New York, N. Y. Antiseptic lip stick. 297,147; Apr. 22. Class 6.
Photoplay Publishing Company, Chicago, Ill. Magazines. 294,239; Apr. 22. Class 38.
Pill, Carl, Los Angeles, Calif. Floor-screed clips. 295,440; Apr. 22. Class 13.
Pinaud, Incorporated, New York, N. Y. Perfumes. 295,695; Apr. 22. Class 6.
Pinnacle Manufacturing Company, The, Cleveland, Ohio. Electrical hair driers. 295,578; Apr. 22. Class 44.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Polefsky, Jacob S., New York, N. Y. Maltless beverages and flavoring extracts and syrups for making the same. 296,290; Apr. 22. Class 45.
Polefsky, Jacob S., New York, N. Y. Maltless beverages and flavoring extracts and syrups therefor. 295,386; Apr. 22. Class 45.
Polefsky, Jacob S., New York, N. Y. Maltless beverages and flavoring extracts and syrups therefor. 295,574; Apr. 22. Class 45.
Pool Sales Company, Sherman, Tex. Suits, overcoats, and hats. 293,844; Apr. 22. Class 39.
Porcedent Denture Company, The. (See Mandel, William.)
Pratt & Whitney Aircraft Company, The, Hartford, Conn. Internal-combustion engines for aircraft and their parts. 289,592; Apr. 22. Class 23.
Prosperity Sales Service. (See Merrihew, John A.)
Pyorrhea Stop Company. (See Ash, John A.)
Pyridium Corporation, The, Nepera Park, N. Y. Medicines. 296,819; Apr. 22. Class 6.
Quartetti, Leonard, doing business as Esper Products Co., Chicago, Ill. Candy laxatives. 296,442; Apr. 22. Class 6.
R. O. C. A. Co. (See Roca, Pietro.)
Ragovin, Harry, New York, N. Y. Vests, chemise, step-ins, etc. 295,348; Apr. 22. Class 39.
Reiss-Premier Pipe Co., West New York, N. J. Smokers' pipes, cigar, and cigarette holders. 296,287; Apr. 22. Class 8.
Reiss-Premier Pipe Co., West New York, N. J. Pipes, cigar, and cigarette holders, tobacco pouches, etc. 296,288; Apr. 22. Class 8.
Rhinelander Refrigerator Co., Rhinelander, Wis. Refrigerators. 272,551; Apr. 22. Class 31.
Rich & Ciri, New York, N. Y. Women's clothing. 295,275; Apr. 22. Class 39.
Richardson Robinson Drug Company, Pauls Valley, Okla. Stomach medicine. 291,741; Apr. 22. Class 6.
Rink's Cloak House, Inc., Indianapolis, Ind. Hosiery. 296,923; Apr. 22. Class 39.
Robins, G. S. Robins & Company, St. Louis, Mo. Liquid bleach. 296,925; Apr. 22. Class 6.
Roca, Pietro, doing business as R. O. C. A. Co., Astoria, N. Y. Germicide antiseptic preparation. 293,291; Apr. 22. Class 6.
Rochester, William L., New York, N. Y. Rope and cable. 296,986; Apr. 22. Class 7.
Rock Run Mills, Goshen, Ind. Baglike leg covers. 294,740; Apr. 22. Class 39.
Rogers, Beatrice M. F., doing business as The Eureka System of Child Education, New York, N. Y. Books and pamphlets. 296,884; Apr. 22. Class 38.
Rutherford, E. J., Co., Inc., Philadelphia, Pa. Washing soda. 286,513; Apr. 22. Class 6.
St. Louis Shoe Manufacturing Company, St. Louis, Mo. Shoes. 296,674; Apr. 22. Class 39.
Salzer & Baumring, Cincinnati, Ohio. Hosiery. 296,775; Apr. 22. Class 39.
Samet & Buchanan, Philadelphia, Pa. Medicinal tablet. 297,150; Apr. 22. Class 6.
Sanitube Company, The. (See Bachmann, Robert A.)
Schilling, Falko W., Manchester, N. H. Indexed and information cards. 294,690; Apr. 22. Class 37.
Schmidt, William, Newark, N. J. Coffee-making utensils. 283,759; Apr. 22. Class 13.
Schneierson, I. & Son, Inc., New York, N. Y. Ladies' chemises, princess slips, bloomers, etc. 292,831; Apr. 22. Class 39.
Schulte-United, Inc., New York, N. Y. Shoes. 296,081; Apr. 22. Class 39.
Shaw, James H., Oakley, Calif. Fresh fruits and vegetables. 291,069; Apr. 22. Class 46.
Shenandoah Milling Company, Inc., Shenandoah, Va. Feeds. 297,154; Apr. 22. Class 46.
Shocket, Abraham, doing business as Star Shoe Repairing Company, Boston, Mass. Shoes. 288,395; Apr. 22. Class 39.
Silmo Chemical Company, Inc., Vineland, N. J. Cod-liver oil. 297,209; Apr. 22. Class 6.
Sitterley, James E., New York, N. Y. Monthly publication. 297,155; Apr. 22. Class 38.
Smith, Rowan D., doing business as Growers Relief Co., Canfield, Ohio. Insecticide. 296,720; Apr. 22. Class 6.
Societe Anonyme Maison A. Seguin, Bordeaux, France. Dentifrices. 297,210–11; Apr. 22. Class 6.
Societe Industrielle du Neogum, Marseille, France. Vegetable glues and adhesive pastes. 296,552; Apr. 22. Class 5.
Sorensen, Albert C., Chicago, Ill. Electric storage batteries. 296,364; Apr. 22. Class 21.
Spooner, Inc., New York, N. Y. Face and talcum powders, rouge, lip sticks, etc. 297,035; Apr. 22. Class 6.
Standard Brands Incorporated, Dover, Del.; Cincinnati, Ohio; and New York, N. Y. Yeast. 295,645; Apr. 22. Class 46.
Standard Lock and Measure Corporation, New York, N. Y. Locks for tanks. 292,640; Apr. 22. Class 25.
Standard Motor Truck Company, Detroit, Mich. Motor trucks and chassis. 288,574; Apr. 22. Class 19.
Standard Rate & Data Service, Chicago, Ill. Periodical publication. 296,930; Apr. 22. Class 38.
Star Shoe Repairing Company. (See Shocket, Abraham.)
Starlighters, Inc., Philadelphia, Pa. Aeroplanes and structural parts thereof. 296,496; Apr. 22. Class 19.
Stern Brothers, New York, N. Y. Sheets, pillowcases, napkins, etc. 296,497; Apr. 22. Class 42.
Stern Brothers, New York, N. Y. Coats. 296,498; Apr. 22. Class 39.
Stomatologic Reference Library, Inc. (See Asgis, Alfred J., assignor.)
Story Sales Corporation, The, Syracuse, N. Y. Disinfectant and deodorant. 296,367; Apr. 22. Class 6.
Stuls, Rudolph Co., St. Louis, Mo. Men's and boys' wearing apparel. 287,851; Apr. 22. Class 39.
Supreme Dress Co., New York, N. Y. Waists, gowns, dresses, frocks. 296,454; Apr. 22. Class 39.
Sutton, Frank, Pittsburgh, Pa. Lock boxes for valuables. 295,444; Apr. 22. Class 25.
Swarts, Milton D., doing business as Farboil Paint Company, Baltimore, Md. Paints, paint driers, lacquers, etc. 296,368–9; Apr. 22. Class 16.
Swift and Company, Chicago, Ill. Glue. 297,285; Apr. 22. Class 5.
Swift Manufacturing Company, The, Columbus, Ga. Cotton piece goods. 296,616; Apr. 22. Class 42.
Tennessee Stove Works, Chattanooga, Tenn. Gas ranges. 296,933; Apr. 22. Class 34.
Thomason, Earle R., Kearney, Mo. Printed matter. 294,285; Apr. 22. Class 38.
Thompson, Phillips B., doing business as M M Importing Co., New York, N. Y. Score cards. 295,109; Apr. 22. Class 37.
Tiffany Enamel Brick Company, Momence, Ill. Bricks. 296,298; Apr. 22. Class 12.
Trager Manufacturing Company, Inc., Scranton, Pa. Ammonia. 291,748; Apr. 22. Class 6.
Troy Wholesale Corporation, Troy, N. Y. Hosiery, sweaters, and underwear. 296,164; Apr. 22. Class 39.
Undertakers Supply Company, The, Chicago, Ill. Preparation for use on the human dead. 296,617; Apr. 22. Class 6.
Undertakers Supply Company, The, Chicago, Ill. Embalming fluid. 296,787; Apr. 22. Class 6.
United Chemical Company. (See Basford, Napoleon O.)
United Drug Company, doing business as Harmony, Boston, Mass. Soap. 292,299; Apr. 22. Class 4.
United Electric Coal Companies, Chicago, Ill. Coal. 295,200; Apr. 22. Class 1.
Villazon & Co., Tampa, Fla. Cigars. 296,837; Apr. 22. Class 17.
Vitaglass Corporation, New York, N. Y. Fluoroscopes and nongraduated test tubes. 271,788; Apr. 22. Class 26.
Vorclone Corporation, Milwaukee, Wis. Drying tumblers and cabinets, dry-cleaning washers, etc. 295,985; Apr. 22. Class 24.
Waddell's Rex Mineral Soap Company, Chicago, Ill. Cleansing compound. 295,547; Apr. 22. Class 4.
Walgreen Co., Chicago, Ill. Toilet paper. 296,037; Apr. 22. Class 37.
Warner, J. Wilbur, Frederick, Md. Chocolates and bonbons. 296,722; Apr. 22. Class 46.
Wheeling Steel Corporation, Wheeling, W. Va. Metal pipe. 295,590; Apr. 22. Class 13.
White & Wyckoff Mfg. Co., Holyoke, Mass. Loose-leaf and ring binders. 295,715–17; Apr. 22. Class 37.
Woodger, John, & Sons Limited, Victoria Embankment, London, and Great Yarmouth, England. Kippered herrings. 290,866; Apr. 22. Class 46.
Wurm Brothers Company, Chicago, Ill. Canned fruits, canned vegetables and fish, etc. 293,704; Apr. 22. Class 46.
Zeigerman, Benjamin, doing business as Mann Chemical Co., Chester, Pa. Hemorrhoidal suppositories. 297,039; Apr. 22. Class 6.
Zeigerman, Benjamin, doing business as Mann Chemical Co., Chester, Pa. Vaginal suppositories. 297,040; Apr. 22. Class 6.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal and briquettes. Old Ben Coal Corporation. 269,940; Apr. 22; Serial No. 293,283; published Feb. 11, 1930.
Leather. General Leather Company. 269,020; Apr. 22; Serial No. 293,531; published Feb. 11, 1930.
Powder. International Pulp Company. 78,180; renewed May 31, 1930.
Seed. J. M. McCullough's Sons Co. 78,619–20; renewed June 28, 1930.

CLASS 2

Bags, Paper. D. W. Dietrich. 269,860; Apr. 22; Serial No. 293,724; published Feb. 11, 1930.
Bottles, Vacuum. United Drug Company. 269,862; Apr. 22; Serial No. 293,563; published Feb. 11, 1930.

Cans, Tin. Continental Can Company. 270,018; Apr. 22; Serial No. 276,252; published Feb. 11, 1930.
Containers, vanity cases, face-powder and cosmetic boxes, etc., Toilet-powder. Gemex Company. 270,034; Apr. 22; Serial No. 282,033; published Feb. 11, 1930.
Hampers, Clothes. Beh & Co. Inc. 269,942; Apr. 22; Serial No. 293,130; published Feb. 11, 1930.
Receptacles. Norvell-Shapleigh Hardware Company. 78,731; renewed July 5, 1930.
Reels and parts thereof. Henry B. Newhall Corporation. 269,833; Apr. 22; Serial No. 290,190; published Feb. 11, 1930.

CLASS 3

Saddlery goods. Faatz Felting Co. 34,838; renewed July 3, 1930.
Trunks. Belber Trunk & Bag Company. 270,019; Apr. 22; Serial No. 276,245; published Feb. 11, 1930.

CLASS 4

Chemical, pharmaceutical, surgical, dietetic, and cosmetic products and preparations. Ichthyol-Gesellschaft Cordes, Hermanni & Co. 34,426–7; renewed Apr. 3, 1930.
Polishes. Ben-Hur Metal Polish Company. 78,485; renewed June 21, 1930.
Soaps. F. C. Calvert & Co. 77,702; renewed May 3, 1930.

CLASS 5

Pastes, Gasket. C. W. Bailey. 269,993; Apr. 22; Serial No. 276,945; published Feb. 11, 1930.

CLASS 6

Alkaline salts. A. G. Lansing. 78,981; renewed July 26, 1930.
Ammonia and salt. National Grocer Company. 269,904; Apr. 22; Serial No. 292,278; published Feb. 4, 1930.
Analgesic and counterirritant preparations. Sydney Ross Co. 270,060; Apr. 22; Serial No. 293,346; published Feb. 4, 1930.
Analgesic balm, aromatic spirits of ammonia, boric-acid solution, etc. Kendall Company. 269,914; Apr. 22; Serial No. 290,025; published Feb. 4, 1930.
Antifreeze preparation. Laboratory Chemicals, Inc. 269,902; Apr. 22; Serial No. 292,404; published Feb. 4, 1930.
Antipyretic, analgesic, and sedative. Bio-Medical Research Laboratories, Incorporated. 270,014; Apr. 22; Serial No. 292,972; published Feb. 4, 1930.
Astringents, astringent cerates, bleach creams, etc. P. B. Falkingham. 269,952; Apr. 22; Serial No. 291,870; published Feb. 4, 1930.
Astringents, astringent cerates, bleach creams, etc. Ludwig Scherk, Inc. 270,056; Apr. 22; Serial No. 293,598; published Feb. 11, 1930.
Balm liniment, ointment, and ringworm medicine. Calderoni Medicine Co. 269,959; Apr. 22; Serial No. 290,447; published Feb. 4, 1930.
Chemical compounds. G. Streep. 269,949; Apr. 22; Serial No. 292,471; published Feb. 11, 1930.
Chemical insect repellents. Midway Chemical Co. 269,917; Apr. 22; Serial No. 287,308; published Feb. 4, 1930.
Citric-acid tablets. E. R. Squibb & Sons. 270,040; Apr. 22; Serial No. 293,491; published Feb. 11, 1930.
Colloidal penetrating agent. Chemical & Dye Corporation. 269,903; Apr. 22; Serial No. 292,394; published Feb. 4, 1930.
Cosmetics. M. Stein Cosmetic Co. 269,953; Apr. 22; Serial No. 291,803; published Feb. 11, 1930.
Cough syrup, Whooping. C. C. Douglas. 269,955; Apr. 22; Serial No. 291,556; published Feb. 11, 1930.
Cream, Dental. Colgate-Palmolive-Peet Company. 269,967; Apr. 22; Serial No. 292,793; published Feb. 11, 1930.
Dentifrices. Miller & Houghton Inc. 269,905; Apr. 22; Serial No. 292,275; published Feb. 4, 1930.
Disinfectant. F. F. Freithofer. 79,117; renewed Aug. 9, 1930.
Dusting powder, bath powder, talcum powder, etc. Marcel Guerlain, Inc. 269,956; Apr. 22; Serial No. 291,508; published Feb. 4, 1930.
Incense. S. D. R. Sukul. 269,915; Apr. 22; Serial No. 289,997; published Feb. 4, 1930.
Laxative. S. B. Adler. 270,017; Apr. 22; Serial No. 258,205; published Feb. 4, 1930.
Liniment. S. Hymes. 269,906; Apr. 22; Serial No. 292,211; published Feb. 4, 1930.
Lotion, Skin. J. L. Plummer. 269,968; Apr. 22; Serial No. 292,957; published Feb. 4, 1930.
Medicated candy and chewing gum. Nutrolo Co. 270,026; Apr. 22; Serial No. 284,915; published Feb. 4, 1930.
Medicinal mineral compound. A. V. Hassman. 269,913; Apr. 22; Serial No. 290,409; published Feb. 4, 1930.
Medicinal preparation. G. Bessinger. 270,058; Apr. 22; Serial No. 293,405; published Feb. 4, 1930.
Medicinal preparation. J. D. Miller. 269,962; Apr. 22; Serial No. 288,862; published Feb. 11, 1930.
Medicinal preparation. M. L. Walker. 269,982; Apr. 22; Serial No. 293,019; published Feb. 4, 1930.
Medicinal preparation. H. C. Wells. 269,918; Apr. 22; Serial No. 285,130; published Feb. 4, 1930.
Medicinal preparation. M. Casquero y Vieta. 270,032; Apr. 22; Serial No. 283,205; published Feb. 11, 1930.
Medicinal preparation for the relief of pain. Moore Laboratories, Inc. 269,991; Apr. 22; Serial No. 266,890; published Feb. 4, 1930.
Medicinal preparation for use in treating blood poisoning, etc. H. S. Hair. 269,957; Apr. 22; Serial No. 290,700; published Feb. 4, 1930.
Mouth wash, spray for nose and throat etc., Liquid. Western Products Co. 270,059; Apr. 22; Serial No. 293,391; published Feb. 4, 1930.
Perfumes. Worth. 269,908; Apr. 22; Serial No. 290,773; published Feb. 4, 1930.
Perfumes and hygienic products. Franklin Simon & Co. Inc. 269,950; Apr. 22; Serial No. 292,127; published Feb. 4, 1930.
Pharmaceutical and toilet preparations and medicines. C. Erba. 77,455; renewed Apr. 12, 1930.
Powder, Douche. E. R. Millis. 269,958; Apr. 22; Serial No. 290,659; published Feb. 11, 1930.
Powder, Skin-dusting. D. Kranis. 270,027; Apr. 22; Serial No. 284,912; published Feb. 11, 1930.
Powders and rouges, Face. Crystal Chemical Company. 270,036; Apr. 22; Serial No. 280,439; published Feb. 11, 1930.
Preparation of dried liver and natural salts. Aberlyons Laboratories, Inc. 269,907; Apr. 22; Serial No. 290,774; published Dec. 24, 1929.
Preparation to be used in the treatment of toothache, insect bites, horse colic, etc. Monticello Drug Company. 269,951; Apr. 22; Serial No. 292,114; published Feb. 11, 1930.
Preparations for sores and abrasions. T. Liandre. 269,964; Apr. 22; Serial No. 285,569; published Feb. 11, 1930.
Prophylactic suppositories. J. S. Johnson. 269,971; Apr. 22; Serial No. 293,101; published Feb. 11, 1930.
Remedial agents, Combination of. F. H. Strong Company. 77,911; renewed May 17, 1930.
Remedies for coughs, cankers, and diphtheria. S. D. Hall. 76,179; renewed Dec. 21, 1929.
Resins, solutions of synthetic resins, and mixtures, Synthetic. Consortium für Elektrochemische Industrie G. m. b. H. 269,961; Apr. 22; Serial No. 289,447; published Feb. 11, 1930.
Salt. Diamond Crystal Salt Company. 78,167; renewed May 31, 1930.
Salts. Wyeth Chemical Company. 269,954; Apr. 22; Serial No. 291,751; published Feb. 11, 1930.
Tablets for the relief of rheumatism, etc. B. L. Klein. 270,057; Apr. 22; Serial No. 293,505; published Feb. 11, 1930.
Tonic. G. Douglass. 270,022; Apr. 22; Serial No. 272,791; published Feb. 4, 1930.
Tonic and sedative, Uterine. Cole Chemical Company. 269,922; Apr. 22; Serial No. 286,034; published Feb. 4, 1930.
Tonic, General. H. S. Benedikt Company. 269,981; Apr. 22; Serial No. 293,174; published Feb. 4, 1930.
Tonic, Hair. Merritt & Merritt Co. 269,921; Apr. 22; Serial No. 287,087; published Feb. 4, 1930.
Vaginal douche. Irwin, Neisler & Co. 270,055; Apr. 22; Serial No. 293,973; published Feb. 4, 1930.
Vegetable material used as a laxative. S. Cohen. 269,900; Apr. 22; Serial No. 292,613; published Feb. 4, 1930.

CLASS 7

Rope, Wire. Trenton Iron Company. 78,365; renewed June 7, 1930.
Twine, Jute wrapping and jute miller's. Hanover Cordage Company. 270,052; Apr. 22; Serial No. 294,221; published Feb. 11, 1930.

CLASS 9

Firecrackers and fireworks. J. M. da Rocha. 269,836–7; Apr. 22; Serial Nos. 292,617–18; published Feb. 11, 1930.
Matches. Diamond Match Company. 269,870; Apr. 22; Serial No. 294,215; published Feb. 11, 1930.
Matches. Diamond Match Company. 269,871; Apr. 22; Serial No. 294,212; published Feb. 11, 1930.
Rocket engine starters. Willson Flying Corporation. 269,937; Apr. 22; Serial No. 293,393; published Feb. 11, 1930.
Shotguns, pistols, revolvers, etc. A. F. Stoeger, Inc. 269,834; Apr. 22; Serial No. 290,722; published Feb. 11, 1930.

CLASS 10

Fertilizers. Home Fertilizer & Chemical Company. 77,397; renewed Apr. 5, 1930.
Fertilizers. Home Fertilizer & Chemical Company. 77,400; renewed Apr. 5, 1930.

CLASS 12

Pavements and paving material. Warren Brothers Company. 78,559; renewed June 21, 1930.

CLASS 13

Horse nails. Capewell Horse Nail Company. 79,410; renewed Sept. 6, 1930.
Horse nails. Capewell Horse Nail Company. 79,421; renewed Sept. 6, 1930.
Metal pipe and pipe fittings. Pacific States Cast Iron Pipe Company. 269,938; Apr. 22; Serial No. 293,340; published Feb. 11, 1930.

CARNEGIE LIBRARY OF ATLANTA

Pancake griddles or cake griddles. Fishback Company. 269,943; Apr. 22; Serial No. 293,036; published Feb. 11, 1930.
Pipe-thread compound. Alloys Company. 270,024; Apr. 22; Serial No. 271,586; published Feb. 11, 1930.
Valves, Pressure-regulating. May Oil Burner Corporation. 269,835; Apr. 22; Serial No. 291,923; published Feb. 11, 1930.

CLASS 14

Alloys, Aluminum. Aluminum-Industrie-Aktien-Gesellschaft. 269,979; Apr. 22; Serial No. 293,651; published Feb. 11, 1930.
Alloys, Metal. Haynes Stellite Company. 269,898; Apr. 22; Serial No. 292,933; published Feb. 4, 1930.
Castings, Roller-mill. H. W. Aitken. 74,792; renewed Aug. 10, 1929.
Copper and zinc photo-engravers' plates. Rolled Plate Metal Company. 269,912; Apr. 22; Serial No. 290,524; published Feb. 4, 1930.
Iron, Pig. A/S Bremanger Kraftselskab. 269,977; Apr. 22; Serial No. 293,657; published Feb. 4, 1930.
Metal, Babbitt. Federated Metals Corporation. 269,909–11; Apr. 22; Serial Nos. 290,692–4; published Feb. 4, 1930.
Metals. Sugarman Smelting & Refining Company. 269,984; Apr. 22; Serial No. 293,248; published Feb. 11, 1930.
Metals, precious metals partly formed, and precious-metal alloys, Precious. H. A. Wilson Company. 269,985; Apr. 22; Serial No. 293,122; published Feb. 4, 1930.
Printing type. Bauer Type Foundry, Inc. 269,899; Apr. 22; Serial No. 292,650; published Feb. 11, 1930.
Solder, Wire. Federated Metals Corporation. 270,073; Apr. 22; Serial No. 291,122; published Feb. 4, 1930.
Steel, Alloy. Ludlum Steel Company. 269,972; Apr. 22; Serial No. 294,163; published Feb. 11, 1930.
Welding rods and metal alloys. Haynes Stellite Company. 269,966; Apr. 22; Serial No. 292,934; published Feb. 4, 1930.

CLASS 15

Candles. Will & Baumer Candle Co. 270,008; Apr. 22; Serial No. 292,429; published Feb. 4, 1930.
Gasoline. Hanlon-Buchanan, Incorporated. 269,930; Apr. 22; Serial No. 293,179; published Feb. 11, 1930.
Gasoline. Waverly Oil Works Company. 270,009; Apr. 22; Serial No. 292,428; published Feb. 4, 1930.
Gasoline and lubricating oils. Imperial Refining Company. 269,887–8; Apr. 22; Serial Nos. 287,374–5; published Feb. 11, 1930.
Gasoline, kerosene, etc. Sinclair Automobile Service Corporation. 270,011; Apr. 22; Serial No. 292,233; published Feb. 4, 1930.
Gasoline, lubricating oils and greases, etc. E. H. Walter. 269,891; Apr. 22; Serial No. 285,488; published Feb. 11, 1930.
Grease, Lubricating. Niagara Lubricant Company. 269,895; Apr. 22; Serial No. 292,043; published Feb. 4, 1930.
Oil and greases, Lubricating. Jackson Oil Company, Inc. 269,947; Apr. 22; Serial No. 293,871; published Feb. 11, 1930.
Oils. Barrett Company. 269,893; Apr. 22; Serial No. 285,062; published Feb. 4, 1930.
Oils and greases, gasoline, gas oil, and kerosene, Lubricating. Motol, Inc. 269,923; Apr. 22; Serial No. 293,338; published Feb. 11, 1930.
Oils and greases, Lubricating. C. C. Carter. 269,878; Apr. 22; Serial No. 291,436; published Feb. 4, 1930.
Oils, greases, and compounds, Lubricating. Jenkin-Guerin Oil Company. 269,882; Apr. 22; Serial No. 291,126; published Feb. 11, 1930.
Oils, greases, gasoline, etc. Reserve Petroleum Company. 269,886; Apr. 22; Serial No. 289,322; published Feb. 4, 1930.
Oils, Lubricating. Walter & Co. 269,989; Apr. 22; Serial No. 256,755; published Feb. 28, 1928.
Petroleum and products of petroleum, mineral wax, candles, etc. Standard Oil Company of New York. 269,894; Apr. 22; Serial No. 292,120; published Feb. 4, 1930.

CLASS 16

Lead, White. Warren Paint Company. 77,361; renewed Mar. 29, 1930.
Liquid drier. Pratt & Lambert, Inc. 79,522; renewed Sept. 13, 1930.
Varnish. Pratt & Lambert, Inc. 79,446; renewed Sept. 6, 1930.
Varnish. Pratt & Lambert, Inc. 79,520–1; renewed Sept. 13, 1930.

CLASS 17

Cigars. Bobrow Bros., Inc. 269,857; Apr. 22; Serial No. 293,916; published Feb. 11, 1930.
Tobacco, cigars, cigarettes, and snuff. Brown & Williamson Tobacco Corporation. 269,876; Apr. 22; Serial No. 293,953; published Feb. 11, 1930.

CLASS 19

Boats, Power propelled. Dwight Lumber Company. 269,826–7; Apr. 22; Serial Nos. 285,257–8; published Feb. 11, 1930.
Flying machines. Keystone Aircraft Corporation. 269,838; Apr. 22; Serial No. 292,809; published Feb. 11, 1930.

CLASS 21

Control systems, Supervisory. Westinghouse Electric & Manufacturing Company. 269,884; Apr. 22; Serial No. 290,164; published Feb. 11, 1930.
Dishwashers, stoves, hand dryers, etc. E. C. Davis. 270,016; Apr. 22; Serial No. 277,697; published Feb. 11, 1930.
Dry cells. Montgomery Ward & Co. 269,880; Apr. 22; Serial No. 291,351; published Feb. 4, 1930.
Electric appliances. Metropolitan Mfg. & Electric Co. 270,007; Apr. 22; Serial No. 292,635; published Feb. 4, 1930.
Electric batteries. National Carbon Company. 270,006; Apr. 22; Serial No. 292,604; published Feb. 4, 1930.
Electric heaters and scorchers and parts therefor. Speed Products, Incorporated. 269,897; Apr. 22; Serial No. 291,483; published Feb. 4, 1930.
Electric lamps, electric-lamp standards and bases. Wellington-Stone Company. 269,896; Apr. 22; Serial No. 292,020; published Feb. 11, 1930.
Electric plate warmers, hot plates, food warmers, etc. Prometheus Electric Corp. 269,877; Apr. 22; Serial No. 291,474; published Feb. 4, 1930.
Electrical apparatus. Utilities Sales Corporation. 270,012; Apr. 22; Serial No. 292,188; published Feb. 4, 1930.
Electrical lighting apparatus and storage batteries therefor. Electric Storage Battery Company. 77,626; renewed Apr. 26, 1930.
Flash lights and dry-cell flash-light batteries. Grossman Merchandise Corporation. 269,885; Apr. 22; Serial No. 289,677; published Feb. 4, 1930.
Friction tape. Westinghouse Electric & Manufacturing Company. 269,924–5; Apr. 22; Serial Nos. 293,301–2; published Feb. 11, 1930.
Fuse plugs, Electrical. Multi-Fuse Co. 269,879; Apr. 22; Serial No. 291,353; published Feb. 11, 1930.
Lamps and vacuum or electron tubes, Incandescent. Economic Lamp Company. 269,888; Apr. 22; Serial No. 290,458; published Feb. 4, 1930.
Mercury switches. Time-O-Stat Controls Company. 269,881; Apr. 22; Serial No. 291,183; published Feb. 4, 1930.
Radio receiving sets and parts thereof and apparatus. Zenith Radio Corporation. 270,020; Apr. 22; Serial No. 273,789; published Dec. 31, 1929.
Radio receiving sets and structural parts thereof, radio loud-speakers. Barker Bros. Incorporated. 269,889; Apr. 22; Serial No. 287,435; published Feb. 4, 1930.
Suction cleaners. J. Newton. 269,892; Apr. 22; Serial No. 285,220; published Feb. 11, 1930.
Tools, such as sanding machines. Clarke Sanding Machine Company. 269,992; Apr. 22; Serial No. 262,699; published Feb. 11, 1930.

CLASS 22

Balls, Golf. Seaman, Roebuck and Co. 269,978; Apr. 22; Serial No. 293,696; published Feb. 4, 1930.
Cards, Playing. May Department Stores Company. 269,980; Apr. 22; Serial No. 293,626; published Feb. 4, 1930.
Fishhook structure. J. Ellerbrock. 269,901; Apr. 22; Serial No. 292,451; published Feb. 4, 1930.
Fishing lines and leaders, Japanese silk gut for. McDonald and Linforth. 270,054; Apr. 22; Serial No. 294,078; published Feb. 11, 1930.
Game and including a game board together with playing pieces in the nature of Mexican jumping beans. J. W. Pearre. 269,983; Apr. 22; Serial No. 293,286; published Feb. 4, 1930.
Game-table cushions. Brunswick Balke Collender Company. 269,965; Apr. 22; Serial No. 292,973; published Feb. 4, 1930.
Golf clubs, Kroydon Company. 270,049; Apr. 22; Serial No. 293,473; published Feb. 11, 1930.
Toy spinning tops, Bandelore. D. F. Duncan. 270,039; Apr. 22; Serial No. 293,467; published Feb. 11, 1930.

CLASS 23

Cigarette-vending stationary machines. University Manufacturing & Sales Co. Inc. 269,916; Apr. 22; Serial No. 288,210; published Feb. 11, 1930.
Mechanical tools and instruments of precision. L. S. Starrett Company. 34,604; renewed May 1, 1930.
Mills, Fulling. Rodney Hunt Machine Co. 269,976; Apr. 22; Serial No. 294,087; published Feb. 11, 1930.
Mowers, Lawn. Worcester Lawn Mower Company. 269,919; Apr. 22; Serial No. 287,100; published Feb. 11, 1930.
Pumps. Beach-Russ Co. 269,974; Apr. 22; Serial No. 294,139; published Feb. 11, 1930.
Separators, Cream. Sears, Roebuck and Co. 79,013; renewed July 26, 1930.
Shears, scissors, hatchets, etc. Girl Scouts. 269,973; Apr. 22; Serial No. 294,152; published Feb. 11, 1930.

CLASS 24

Washing machines and parts therefor, Clothes-. Electrolux, Inc. 270,025; Apr. 22; Serial No. 284,976; published Feb. 11, 1930.

CLASS 26

Numbering machines. Bates Manufacturing Company. 269,975; Apr. 22; Serial No. 294,187; published Feb. 11, 1930.

CLASS 27

Watchcases and movements. Illinois Watch Case Company. 79,284; renewed Aug. 23, 1930.

CLASS 28

Bracelets. Universal Watch Bracelet Manufacturers, Inc. 270,010; Apr. 22; Serial No. 292,377; published Feb. 11, 1930.
Bracelets, neck chains, etc. Gemex Company. 269,928–9; Apr. 22; Serial Nos. 293,216–7; published Feb. 11, 1930.
Jewelry. Automatic Gold Chain Co. 269,926; Apr. 22; Serial No. 293,258; published Feb. 11, 1930.
Jewelry. Automatic Gold Chain Co. 269,948; Apr. 22; Serial No. 293,361; published Feb. 11, 1930.
Knives, forks, and spoons. Royal Silver Manufacturing Company. 76,573; renewed Feb. 1, 1930.
Rings, bracelets, necklaces, etc., Finger. G. H. Beattie. 270,031; Apr. 22; Serial No. 283,428; published Feb. 4, 1930.
Spoons, forks, and knives plated with precious metal. R. Wallace & Sons Manufacturing Company. 269,931; Apr. 22; Serial No. 293,118; published Feb. 4, 1930.

CLASS 29

Powder puffs. C. L. Wilson. 269,839; Apr. 22; Serial No. 292,918; published Feb. 11, 1930.

CLASS 31

Refrigerating apparatus, Mechanical. Leonard Refrigerator Company. 269,828; Apr. 22; Serial No. 285,568; published Feb. 11, 1930.
Refrigerating machines and parts thereof, Electric. General Electric Company. 269,875; Apr. 22; Serial No. 294,001; published Feb. 11, 1930.
Refrigerator units, Mechanical. Morrison Manufacturing Company. 269,830; Apr. 22; Serial No. 286,789; published Feb. 11, 1930.
Refrigerators, Electric. S. J. Wolfson. 269,873; Apr. 22; Serial No. 294,130; published Feb. 11, 1930.

CLASS 34

Heating apparatus. Graff Company. 78,876; renewed July 19, 1930.
Incinerators. R. T. Wyse. 269,858; Apr. 22; Serial No. 293,804; published Feb. 11, 1930.

CLASS 36

Phonograph needles. W. H. Bagshaw Company. 270,004; Apr. 22; Serial No. 292,921; published Feb. 4, 1930.
Phonographs. Grigsby-Grunow Company. 270,005; Apr. 22; Serial No. 292,666; published Feb. 4, 1930.
Phonographs and phonographs adapted for combination with radio receiving sets. North-Mehornay Furniture Co. 269,927; Apr. 22; Serial No. 293,229; published Feb. 11, 1930.
Strings for plucked and hammered musical instruments. Armour and Company. 269,890; Apr. 22; Serial No. 287,224; published Feb. 4, 1930.
Talking machines and parts thereof. Limit Engineering Co. Ltd. 270,077; Apr. 22; Serial No. 288,751; published Dec. 31, 1929.
Wire strings for musical instruments. Felten & Guilleaume-Lahmeyerwerke Actiengesellschaft. 76,567; renewed Feb. 1, 1930.

CLASS 37

Filing index system. G. K. Young. 270,003; Apr. 22; Serial No. 288,532; published Feb. 4, 1930.
Paper. Newark Paraffine & Parchment Paper Co. 269,988; Apr. 22; Serial No. 293,635; published Feb. 4, 1930.
Paper and envelope paper, Wrapping. Orono Pulp & Paper Company. 269,853; Apr. 22; Serial No. 293,151; published Feb. 4, 1930.
Paper and mailing envelopes, Book, text, and cover. Strathmore Paper Company. 270,000; Apr. 22; Serial No. 292,016; published Feb. 11, 1930.
Paper and record forms, Letter. American Sales Book Company. 269,841; Apr. 22; Serial No. 293,566; published Feb. 4, 1930.
Paper, Bond and writing. Waterfalls Paper Mills. 269,987; Apr. 22; Serial No. 293,647; published Feb. 4, 1930.
Paper commode-seat covers and paper towels. Zetex Corporation. 270,002; Apr. 22; Serial No. 288,630; published Feb. 4, 1930.
Paper, envelops, and tablets. Powers Paper Company, Associates. 79,445; renewed Sept. 6, 1930.
Paper, Kraft. Nekoosa-Edwards Paper Company. 269,847; Apr. 22; Serial No. 293,440; published Feb. 4, 1930.
Paper, Transparent waxed. Package Paper Company. 269,852; Apr. 22; Serial No. 293,152; published Feb. 4, 1930.
Paper, Transparent waxed. Package Paper Company. 270,045; Apr. 22; Serial No. 293,685; published Feb. 4, 1930.
Pencils, rubber erasers, and colored pencils, Lead. Eberhard Faber Pencil Company. 269,854; Apr. 22; Serial No. 293,133; published Feb. 4, 1930.
Tags, Shipping. American Tag Company. 269,844; Apr. 22; Serial No. 293,507; published Feb. 4, 1930.
Toilet tissue. S. H. Kress & Co. 270,048; Apr. 22; Serial No. 293,670; published Feb. 4, 1930.

CLASS 38

Bulletin. Radium Emanation Corporation. 269,932–3; Apr. 22; Serial Nos. 294,179–80; published Feb. 11, 1930.
Cartoons or comic strips, Series of. Daily Graphic, Inc. 269,994–5; Apr. 22; Serial Nos. 292,983–4; published Feb. 4, 1930.
Cartoons or comic strips, Series of. Daily Graphic, Inc. 270,013; Apr. 22; Serial No. 292,986; published Feb. 4, 1930.
Labels, Identification. Orrsell Company. 270,046; Apr. 22; Serial No. 293,688; published Feb. 11, 1930.
Magazine. American News Company. 76,956; renewed Mar. 1, 1930.
Magazine. Blue and Gray Transit Company. 270,044; Apr. 22; Serial No. 293,866; published Feb. 11, 1930.
Magazine. Macfadden Publications, Inc. 270,047; Apr. 22; Serial No. 293,674; published Feb. 11, 1930.
Magazine and printed circulars, etc. G. W. Anthony. 269,997; Apr. 22; Serial No. 292,436; published Feb. 4, 1930.
Magazines. Graphic Arts Corporation. 269,996; Apr. 22; Serial No. 292,982; published Feb. 11, 1930.
Maps and photographs. Fairchild Aviation Corp. 269,842–3; Apr. 22; Serial Nos. 293,528–9; published Feb. 11, 1930.
Newspaper page, feature, or section. New York Tribune Inc. 269,935; Apr. 22; Serial No. 294,081; published Feb. 11, 1930.
Periodical. William B. Dana Company. 269,848–51; Apr. 22; Serial Nos. 293,409–12; published Feb. 11, 1930.
Periodical. Huntington Hotel Company. 269,986; Apr. 22; Serial No. 293,665; published Feb. 11, 1930.
Periodical. H. W. Page. 269,845; Apr. 22; Serial No. 293,482; published Feb. 11, 1930.
Periodical. Stahl's Outdoor Enterprise Company. 269,998; Apr. 22; Serial No. 292,293; published Feb. 4, 1930.
Periodicals. Fifth Avenue Modes, Inc. 270,041; Apr. 22; Serial No. 294,013; published Feb. 11, 1930.
Picture section of a newspaper. C. R. Miller. 269,856; Apr. 22; Serial No. 293,002; published Feb. 11, 1930.
Picture section of a newspaper or magazine. D. Carnegie. 269,999; Apr. 22; Serial No. 292,096; published Feb. 4, 1930.
Printed plays and pageants. Universal Producing Company. 269,855; Apr. 22; Serial No. 293,080; published Feb. 11, 1930.
Publication. A. C. Berken Company. 270,042; Apr. 22; Serial No. 294,005; published Feb. 11, 1930.
Publication. Breskin & Charlton Publishing Corporation. 269,934; Apr. 22; Serial No. 294,140; published Feb. 11, 1930.
Publication. J. E. Magnus. 270,043; Apr. 22; Serial No. 293,927; published Feb. 11, 1930.
Publication. Pioneer Publishing Company. 269,846; Apr. 22; Serial No. 293,446; published Feb. 11, 1930.
Publication, Columns in a daily. H. A. Deferrari. 269,840; Apr. 22; Serial No. 293,573; published Feb. 11, 1930.
Sheet music and music books. S. Kestenbaum and M. M. Korn. 270,001; Apr. 22; Serial No. 290,315; published Feb. 4, 1930.

CLASS 39

Boots and shoes. International Shoe Co. 270,064; Apr. 22; Serial No. 292,403; published Feb. 4, 1930.
Boots and shoes. Maize Shoe Company. 270,023; Apr. 22; Serial No. 271,766; published Apr. 23, 1929.
Boots and shoes for ladies, Leather. Neenah Shoe Company. 269,823; Apr. 22; Serial No. 292,891; published Feb. 4, 1930.
Boots, lumbermen's pacs, arctics, and rubber shoes. Beacon Falls Rubber Shoe Company. 270,070; Apr. 22; Serial No. 291,903; published Feb. 11, 1930.
Boots, shoes, and slippers. Applebaum-Mautner Company. 269,824; Apr. 22; Serial No. 292,965; published Feb. 4, 1930.
Boots, shoes, and slippers. Endicott Johnson Corporation. 269,825; Apr. 22; Serial No. 292,987; published Feb. 11, 1930.
Caps and hats. Hodshon-Berg, Incorporated. 269,944; Apr. 22; Serial No. 293,579; published Feb. 11, 1930.
Clothing. Judsen Rubber Works. 270,075; Apr. 22; Serial No. 289,522; published Feb. 11, 1930.
Clothing. J. Wanamaker. 77,384; renewed Apr. 5, 1930.
Clothing for men and women, Aviation. Hook-Tailor. 269,821; Apr. 22; Serial No. 292,807; published Feb. 4, 1930.
Coats and pants, hunting vests, etc. Alward-Anderson-Southard Co. 269,945; Apr. 22; Serial No. 293,508; published Feb. 11, 1930.
Gloves. C. D. Osborn Co. 270,063; Apr. 22; Serial No. 292,413; published Feb. 4, 1930.
Gloves. C. D. Osborn Co. 270,074; Apr. 22; Serial No. 290,590; published Feb. 4, 1930.
Gloves. John Wanamaker New York. 79,019; renewed July 26, 1930.
Hats and caps. M. S. Levy & Sons, Inc. 270,071–2; Apr. 22; Serial Nos. 291,777–8; published Feb. 4, 1930.

Hats and caps for men. H. B. Weiss. 269,946; Apr. 22; Serial No. 293,121; published Feb. 4, 1930.
Hats and caps, overcoats, dresses, and coats. Byron Hat Corporation. 270,065; Apr. 22; Serial No. 292,249; published Feb. 4, 1930.
Hosiery. Chas. Chipman's Sons. 76,739; renewed Feb. 15, 1930.
Hosiery. Chas. Chipman's Sons. 76,741; renewed Feb. 15, 1930.
Hosiery. Chas. Chipman's Sons. 77,124–5; renewed Mar. 15, 1930.
Hosiery. Chas. Chipman's Sons. 77,201; renewed Mar. 22, 1930.
Hosiery. Chas. Chipman's Sons. 77,296; renewed Mar. 29, 1930.
Negligees, corsets, dresses, coats, etc. B. Gertz, Incorporated. 270,069; Apr. 22; Serial No. 291,974; published Feb. 4, 1930.
Shoe and stocking protector. F. B. Sawyer. 270,076; Apr. 22; Serial No. 289,369; published Feb. 4, 1930.
Shoes. Bona Allen, Inc. 270,067; Apr. 22; Serial No. 292,089; published Feb. 4, 1930.
Shoes. S. J. Brouwer. 270,066; Apr. 22; Serial No. 292,247; published Feb. 11, 1930.
Shoes. Duane Shoe Company. 269,820; Apr. 22; Serial No. 292,721; published Feb. 11, 1930.
Shoes. L. Goldman. 270,062; Apr. 22; Serial No. 292,528; published Feb. 11, 1930.
Shoes, Ground Gripper Shoe Company. 270,068; Apr. 22; Serial No. 292,036; published Feb. 4, 1930.
Shoes. Home Trade Shoe Store, Inc. 270,028; Apr. 22; Serial No. 283,870; published Feb. 4, 1930.
Shoes. Home Trade Shoe Store, Inc. 270,029; Apr. 22; Serial No. 283,866; published Feb. 4, 1930.
Shoes. J. Selva. 269,822; Apr. 22; Serial No. 292,834; published Feb. 11, 1930.
Shoes and slippers. Kaufmann Department Stores, Inc. 270,078; Apr. 22; Serial No. 286,179; published Feb. 4, 1930.
Underwear, corsets, dresses, etc. M. C. Schrank & Company. 270,061; Apr. 22; Serial No. 292,596; published Feb. 11, 1930.

CLASS 40

Hairpins. William H. Cole & Co. Limited. 76,577; renewed Feb. 1, 1930.

CLASS 42

Cotton cloth. Tingue, Brown & Co. 79,086; renewed Aug. 2, 1930.
Robes, Textile lap. A. C. Steenburg. 269,969; Apr. 22; Serial No. 293,240; published Feb. 11, 1930.
Sheets, sheeting, wide sheeting, etc., Cotton and linen bed. Kline Brothers Co. 270,050; Apr. 22; Serial No. 294,428; published Feb. 11, 1930.
Silk and rayon and mixtures thereof. Piece goods of. Duplan Silk Corporation. 270,051; Apr. 22; Serial No. 294,295; published Feb. 11, 1930.
Silk crepes in the piece. William Skinner & Sons. 269,970; Apr. 22; Serial No. 293,112; published Feb. 11, 1930.
Silk, Piece goods of. Bianchini, Ferier. 270,030; Apr. 22; Serial No. 283,657; published Feb. 11, 1930.
Tablecloths, card-table covers, luncheon sets, etc. American Products Co. 270,053; Apr. 22; Serial No. 294,185; published Feb. 11, 1930.
Wool or fabrics of part wool and part cotton, Piece goods of all. Bedford Johnson Company. 269,963; Apr. 22; Serial No. 285,807; published Feb. 11, 1930.

CLASS 44

Sanitary belts. M. O. Stone. 270,015; Apr. 22; Serial No. 292,376; published Feb. 4, 1930.

CLASS 45

Beverage, Maltless. Cloverdale Spring Company. 269,872; Apr. 22; Serial No. 294,143; published Feb. 11, 1930.
Beverages and syrups, extracts, and concentrates for preparing the same, Maltless. Standard Imports Limited. 270,037; Apr. 22; Serial No. 279,568; published Feb. 11, 1930.
Beverages, Maltless. King of Clubs, Inc. 270,033; Apr. 22; Serial No. 282,860; published Feb. 11, 1930.
Beverages, Maltless. Magnolia Coca Cola Bottling Co. 269,866; Apr. 22; Serial No. 294,270; published Feb. 11, 1930.

CLASS 46

Bread. Fischer Baking Company. 269,869; Apr. 22; Serial No. 294,216; published Feb. 11, 1930.
Cake, doughnuts, and cookies. Ward Baking Company. 269,936; Apr. 22; Serial No. 293,456; published Feb. 11, 1930.
Candy. Golden Nugget Sweets. 269,832; Apr. 22; Serial No. 290,177; published Feb. 11, 1930.
Canned fish, canned fish cake. G. C. Van Camp. 269,990; Apr. 22; Serial No. 286,456; published Feb. 11, 1930.
Canned fruits and vegetables. Code-Portwood Canning Co. 77,202; renewed Mar. 22, 1930.
Canned meats and canned meat products. International Products Corporation. 269,939; Apr. 22; Serial No. 293,825; published Feb. 11, 1930.
Canned oysters. Gibbs Preserving Company. 77,725; renewed May 3, 1930.
Canned salmon and dried salt codfish. Austin, Nichols & Co. 75,836; renewed Nov. 23, 1929.
Canned sardines in olive oil. Austin, Nichols & Co. 76,350; renewed Jan. 11, 1930.
Canned sugar corn, peaches, etc. Cushing Grocery Co. 269,859; Apr. 22; Serial No. 293,772; published Feb. 11, 1930.
Canned vegetables. Taylor & Caldwell. 269,865; Apr. 22; Serial No. 294,282; published Feb. 11, 1930.
Cheese. J. Couderc. 269,831; Apr. 22; Serial No. 288,846; published Feb. 11, 1930.
Chewing gum. American Chicle Company. 269,863; Apr. 22; Serial No. 294,375; published Feb. 11, 1930.
Chocolates. Dilling & Company. 79,328; renewed Aug. 30, 1930.
Coffee and tea, flavoring extracts, and spices, Blended. Hanley & Kinsella Coffee & Spice Company. 79,279; renewed Aug. 23, 1930.
Dairy products. Anglo-Swiss Condensed Milk Company. 34,494; renewed Apr. 17, 1930.
Flour, Wheat. Amendt Milling Company. 78,479; renewed June 21, 1930.
Flour, Wheat. Crookston Milling Co. 79,473; renewed Sept. 13, 1930.
Flour, Wheat. Larabee Flour Mills Company. 269,867–8; Apr. 22; Serial Nos. 294,228–9; published Feb. 11, 1930.
Flour, Wheat. Stanard-Tilton Milling Co. 269,874; Apr. 22; Serial No. 294,124; published Feb. 11, 1930.
Flour, Wheat. J. W. Stephenson. 79,531; renewed Sept. 13, 1930.
Foods. Austin, Nichols & Co. 76,890; renewed Jan. 11, 1930.
Foods. Sperry Flour Company. 77,495; renewed Apr. 12, 1930.
Foods, Certain. Austin, Nichols & Co. 76,614; renewed Feb. 1, 1930
Foods, Certain. William Edwards Company. 76,705; renewed Feb. 8, 1930.
Fruits, Frozen. J. M. McIntosh. 270,038; Apr. 22; Serial No. 278,551; published Feb. 11, 1930.
Gum, Chewing. American Chicle Company. 270,021; Apr. 22; Serial No. 273,128; published Feb. 11, 1930.
Herrings, sardines, anchovies, cod roe, and fish balls. Concord Canning Co. 75,155; renewed Sept. 7, 1929.
Ice cream. J. C. Reed. 269,960; Apr. 22; Serial No. 289,942; published Feb. 4, 1930.
Oranges. Lindsay Producers Association. 77,250; renewed Mar. 22, 1930.
Pie crust. Jusrol Pye Crust Co. 269,864; Apr. 22; Serial No. 294,358; published Feb. 11, 1930.
Pop corn. Barteldes Seed Company. 269,861; Apr. 22; Serial No. 293,614; published Feb. 11, 1930.
Sandwiches. Roto Corporation. 269,941; Apr. 22; Serial No. 293,156; published Feb. 11, 1930.
Sandwiches. S. L. Stamper. 269,829; Apr. 22; Serial No. 286,281; published Feb. 11, 1930.
Tea. Thomas Wood & Co. 76,085; renewed Dec. 14, 1929.
Tea, Blended. Austin, Nichols & Co. 76,063; renewed Dec. 14, 1929.

CLASS 48

Beer. Oshkosh Brewing Co. 79,442; renewed Sept. 6, 1930.
Malt beverages. Piel Bros., Inc. 270,035; Apr. 22; Serial No. 281,688; published Feb. 11, 1930.

CLASS 49

Whiskies, Blend of straight Scotch. Robert McNish & Co. 78,431; renewed June 14, 1930.
Whiskies, Blend of straight Scotch. John Walker & Sons, Limited. 78,556; renewed June 21, 1930.

ALPHABETICAL LIST OF LABELS

Big Alarm. For Candy. General Candy Corporation. 27,367; Apr. 22.
F & F Cough Lozenges. For Cough Lozenges. Organ-Iron Laboratories. 37,383; Apr. 22.
Freihofer's Raisin Whole Wheat Loaf. For Bread. Chas. Freihofer Baking Co. Inc. 37,355; Apr. 22.
Glove Brand. For Storm Footwear. Goodyear's India Rubber Glove Mfg. Co. 37,368; Apr. 22.
Golden Pheasant. For Automobile Polish. Ashworth Advertising Company. 37,348; Apr. 22.
Hall Bros. For Woolen Goods. Hall Brothers. 37,369; Apr. 22.

Honey Bee Hive. For Honey and Peanut Butter. Brundage Brothers Company. 37,353; Apr. 22.
Instant Type Cleaner and Rubber Platen Renewer. For a Preparation for Cleaning Typewriter Type and for Renewing Rubber Platen. E. J. Malarin. 37,376; Apr. 22.
King Pick. For Sweet Mixed Pickles. King Fuller Crandell Co. 37,371; Apr. 22.
Larvex. For Mothproofing Compound. Larvex Corporation. 37,372; Apr. 22.
Life Savers. For Packaged Confectionery. Life Savers Inc. 37,375; Apr. 22.
Lilac. For Toilet Water. P. C. Marie. 37,380; Apr. 22.
Limabeen Toast. For Toast. W. C. Baker. 37,349; Apr. 22.
Manischewitz's Whole Wheat Matzo Meal. For Matzo Meal. B. Manischewitz Company. 37,377; Apr. 22.
Mannings Tea Refreshing as the Dawn. For Tea. Mannings Inc. 37,378; Apr. 22.
Mannings Tea Refreshing as the Dawn. For Tea. Mannings Inc. 37,379; Apr. 22.
Marcelade. For Marcel-Waving Preparation. A. Taglianetti. 37,385; Apr. 22.
Maypole Sweets. For Maypole Sweets, a Confection. F. W. Whiles. 37,387; Apr. 22.
Milk Shake. For Candy Bars. F. A. Martoccio Company. 37,381; Apr. 22.
New Amsterdam. For Crushed Fruits. H. Baron & Company Inc. 37,350; Apr. 22.
New Amsterdam. For Fountain Syrup. H. Baron & Company Inc. 37,351; Apr. 22.
Original Canadian. For Barley-Malt Syrup. C. Messinger. 37,382; Apr. 22.
Pixie Strained Apple Sauce. For Strained Apple Sauce. Fruit Belt Preserving Company. 37,364; Apr. 22.
Pixie Strained Beets. For Strained Beets. Fruit Belt Preserving Company. 37,361; Apr. 22.
Pixie Strained Celery Soup. For Strained Celery Soup. Fruit Belt Preserving Company. 37,360; Apr. 22.
Pixie Strained Carrots. For Strained Carrots. Fruit Belt Preserving Company. 37,366; Apr. 22.
Pixie Strained Peas. For Strained Peas. Fruit Belt Preserving Company. 37,363; Apr. 22.
Pixie Strained Spinach. For Strained Spinach. Fruit Belt Preserving Company. 37,356; Apr. 22.
Pixie Strained Spinach. For Strained Spinach. Fruit Belt Preserving Company. 37,359; Apr. 22.
Pixie Strained Tomatoes. For Strained Tomatoes. Fruit Belt Preserving Company. 37,357–8; Apr. 22.
Pixie Strained Vegetable Soup. For Strained Vegetable Soup. Fruit Belt Preserving Company. 37,365; Apr. 22.
Pixie Strained Wax Beans. For Strained Wax Beans. Fruit Belt Preserving Company. 37,362; Apr. 22.
Rino. For Orange Salt. Rino Laboratories Co. 37,384; Apr. 22.
Spinning Wheel. For Fresh Citrus Fruits. Bradentown Citrus Growers Association. 37,352; Apr. 22.
Talkie. For Candy. John D. Hamilton Co. 37,370; Apr. 22.
The Peak of Perfection. For Cheese. D. A. Connell. 37,354; Apr. 22.
Vitabar. For Candy Confection. Tropical Vitamin Co. 37,386; Apr. 22.
Vitalis. For Hair Tonic. Lewis Bros., Inc. 37,373–4; Apr. 22.
Wilson's Large Carton. For Honey Butter Scotch (a Confection). G. C. Wilson. 37,388; Apr. 22.
Wilson's (Small Carton). For Honey Butter Scotch (a Confection). G. C. Wilson. 37,389; Apr. 22.

ALPHABETICAL LIST OF PRINTS

Already the Toast of Philadelphia. For Nonalcoholic Drinks and Beverages. Hoffman Beverage Company. 12,495; Apr. 22.
Apollos. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. L. Hilsenbeck, Inc. 12,494; Apr. 22.
B & J Auto Awnings. For Automobile Awnings. Western States Auto Awning Company. 12,497; Apr. 22.
Dreams. For Perfume. Elizabeth Arden Inc. 12,485; Apr. 22.
Friendship. For Perfume, Cleansing Cream, Skin Tonic, Special Astringent, and Muscle Oil. Elizabeth Arden Inc. 12,484; Apr. 22.
In Memory of Our Dearly Beloved. For Memorial Certificate. Philadelphia Memorial Art Co. 12,496; Apr. 22.
Paul J. Haecker Construction Co. For Garages. Paul J. Haecker Construction Co. 12,486–9; Apr. 22.
Ramses. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. L. Hilsenbeck, Inc. 12,493; Apr. 22.
Ramses—Original Transparent. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. L. Hilsenbeck, Inc. 12,492; Apr. 22.
Sphinx. For Prophylactic Rubber Articles for Prevention of Contagious Diseases. L. Hilsenbeck, Inc. 12,490; Apr. 22.
300% Profit. For Prophylactic Rubber Articles for Prevention of Contagious Diseases. L. Hilsenbeck, Inc. 12,491; Apr. 22.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22ND DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Eshbaugh, Jesse E., assignor.)
Abby, Warren, Marina, Calif. Exterminator. 1,755,857; Apr. 22.
Abel, Frank J., New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Candlestick or article of analogous nature. Des. 80,993; Apr. 22.
Acaster, Thomas H., Old Trafford, Manchester, England. Golf tee. 1,755,344; Apr. 22.
Adams, Frank, Indianapolis, Ind. Rotor winding and method of mounting end rings. 1,755,283; Apr. 22.
Adams, Thomas C., Gastonia, N. C. Bottle or jar. 1,755,944; Apr. 22.
Addressograph Company. (See Richter, Elmer F., assignor.)
Adlake Company, The. (See Whitmore, Edward E., assignor.)
Agnew, Lewis E., jr. (See Kinsley, James P., assignor.)
Ahmels, Karl, Kassel, and L. Ohm, Gudensberg, near Kassel, Germany. Pocket microscope. 1,755,759; Apr. 22.
Aktiebolaget Superior. (See Westerberg, Carl A. A., assignor.)
Alexandrescu, Alexander M., Cleveland, Ohio. Adjustable silent gear. 1,755,945; Apr. 22.
Allbright-Nell Company, The. (See Jordan, Robert E., assignor.)
Allbright-Nell Company, The. (See Ozouf, Arthur E., assignor.)
Allegheny Steel Company. (See Winder, Frank J., assignor.)
Allis, Louis, Company, The. (See Barr, J. M., and Smith, assignors.)
Alsop, Samuel, et al. (See Beidler, Ford E., assignor.)
Altenbach, Otto, Obligs-Solingen, Germany. Knife-handle. 1,755,946; Apr. 22.
Altorfer Bros. Company. (See Wilson, Douglas A., assignor.)
Aluminum Goods Manufacturing Co. (See Tollagsen, Olaf, assignor.)
Amdyco Corporation. (See Palmer, Walter, assignor.)
American Arch Company. (See Becker, Arthur F., assignor.)
American Bolt Anchor Corporation. (See Mirzan, Richard A., assignor.)
American Cyanamid Company. (See Christmann, Ludwig J., assignor.)
American Gear Shift Company. (See Craig, Alvin M., assignor.)
American Road Machinery Company. (See Thompson, Watson T., assignor.)
American Rolling Mill Company, The. (See Holliday, H., McKnight, and Christfield, assignors.)
American Seating Company. (See Merrill, R. K., and Blakslee, assignors.)
American Smelting and Refining Company. (See Hershey, Carl G., assignor.)
American Smelting & Refining Company. (See Peirce, William H., assignor.)
American Smelting and Refining Company. (See Perkins, M. F., Hanson, and O'Harra, assignors.)
American Telephone and Telegraph Company. (See Crisson, George, assignor.)
American Telephone and Telegraph Company. (See Dietze, Eckhard, assignor.)
American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)
American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
Ames, Bliss C., Corona, Calif. Fruit clipper. 1,755,417; Apr. 22.
Anderson, Charles A., Chicago, Ill. Pump or engine construction. 1,755,169; Apr. 22.
Anderson, Fritz A., assignor to The Burdick Corporation, Milton, Wis. Therapeutic apparatus. 1,755,418; Apr. 22.
Anderson, Robert J., Sidney, Ohio. Washing machine. 1,755,419; Apr. 22.
Andrews, Charles J., San Diego, Calif. Remote lock and control means for doors. 1,755,585; Apr. 22.
Andrews, Edward F., Chicago, Ill. Portable loop aerial. 1,755,580; Apr. 22.
Anthony Company. (See Anthony, William C., assignor.)
Anthony, Stanley, Boston, Mass. File. 1,755,760; Apr. 22.
Anthony, William C., assignor to Anthony Company, Streator, Ill. Dumping body. 1,755,803; Apr. 22.
Armstrong, Frederick A., Kirksville, Mo. Sterilizing pan and bottle holder. 1,755,420; Apr. 22.
Armstrong, Henry, assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Display machine. 1,755,761; Apr. 22.
Armstrong, John C., Fillmore, and J. E. Wallis, Los Angeles, Calif. Sucker-rod guide and cleaner. 1,755,762; Apr. 22.
Aronson, Louis V., Newark, N. J., assignor to Art Metal Works, Inc. Lighter. 1,755,494; Apr. 22.
Art Metal Spinning Co. (See Laudel, Eric, assignor.)
Art Metal Works, Inc. (See Aronson, Louis V., assignor.)
Ashley, Lucy C., and W. B. Bahn, Oklahoma City, Okla. Aerial mail exchange. 1,755,235; Apr. 22.
Associated Factories Corporation. (See Knox, Jean H., assignor.)
Astrup, Walter C., Cleveland, Ohio. Curtain-pole end piece. Re80,994; Apr. 22.
Astrup, Walter C., Cleveland, Ohio. Curtain-pole end piece. Re80,995; Apr. 22.
Atla Sales Corporation. (See Lima, Henry C., assignor.)
Atwater Kent Manufacturing Company. (See Tarsian, Sarkes, assignor.)
Auld, D. L., Company, The. (See Cochran, Rae E., assignor.)
Auto Research Corporation. (See Bijur, Joseph, assignor.)
Automatic Electric Inc. (See Willis, Bernard D., assignor.)
Babbitt, John F., assignor to J. V. Pilcher, Louisville, Ky. Vanity case. 1,755,858; Apr. 22.
Babbitt, John F., assignor to J. V. Pilcher, Louisville, Ky. Vanity box. 1,755,908; Apr. 22.
Bachmann, Siegmund, Chicago, Ill. Folding box. 1,755,722; Apr. 22.
Bacon, Miller M. (See Coe, R. W., and Bacon.)
Bahn, William B. (See Ashley, L. C., and Bahn.)
Bailey, Albert W., New Haven, Conn. Support for chairs, stands, and the like. 1,755,311; Apr. 22.
Baker, Charles W., Lake Charles Park, Mo. Burial apparatus. 1,755,170; Apr. 22.
Baker, David B. (See Johnston, E. A., Baker, and Hagen.)
Baker, Edward A., Mansfield, Ohio. Guard cage. 1,755,495; Apr. 22.
Baker, Walter G., Salem, Oreg. Animal trap. 1,755,947; Apr. 22.
Baker, Walter R. G., Schenectady, N. Y., assignor to General Electric Company. System of electrical distribution. 1,755,859; Apr. 22.
Baldwin Locomotive Works, The. (See Vauclain, Samuel M., assignor.)
Banks, Henry W., 3d, Noroton, Conn., assignor, by mesne assignments, to United States Rubber Company. Concentrating latex. 1,755,379; Apr. 22.
Banning, Ephraim, trustee. (See Coyle, Joseph L., assignor.)
Barba, Adrien, Asnieres, Seine, France, assignor, by mesne assignments, to A. d'Halloy, Paris, France. Shaping machine. 1,755,860; Apr. 22.
Barbarou, Marius J.-B., Paris, France. Speed changing and reducing gear for aeroplane engines. 1,755,804; Apr. 22.
Barber, James T., Brooklyn, N. Y. Drum-washing machine. 1,755,763; Apr. 22.
Barker, Justin N., and M. N. Barker, Santa Monica, Calif. Toilet-seat accessory. Re17,645; Apr. 22.
Barker, Marjorie N. (See Barker, Justin N. and M. N.)
Barnes Scale Company. (See King, Bert W., assignor.)
Barr, John M., Cleveland, Ohio, and H. L. Smith, assignor to The Louis Allis Company, Milwaukee, Wis. Current collector. 1,756,004; Apr. 22.
Barstow, Edwin O., assignor to The Dow Chemical Company, Midland, Mich. Electrolytic production of light metals. 1,755,380; Apr. 22.
Bartenbach, Herman, Pittsburgh, Pa. Instrument case. 1,755,171; Apr. 22.
Bartholomew, Stanley. (See Nutt, H. G., and Bartholomew.)
Basile, Tony. (See Furnari, C., Basile, and Sciotto.)
Bassick Company, The. (See Herold, Walter F., assignor.)
Bast, Dale D., Braddyville, and H. C. Johnson, Blanchard, Iowa. License-plate holder. 1,755,625; Apr. 22.
Bastian-Blessing Company, The. (See Buttner, William C., assignor.)
Bates, Ralph E., Medford, assignor to Submarine Signal Corporation, Boston, Mass. Electric compensator. 1,755,345; Apr. 22.
Baum, Erich. (See Herrmann, W. O., and Baum.)
Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Mattress and like structure. 1,755,805; Apr. 22.

Beacham, Thomas E. (See Hele-Shaw, H. S., and Beacham.)
Beaufour, Henri, Beauvais, France. Extraction of the albumino-caseins of vegetable origin and for the separation of such albumino-caseins from amylaceous matter. 1,755,531; Apr. 22.
Becerra, Hesiquio, Cheyenne, Wyo. Beet blocker. 1,755,861. Apr. 22.
Becker, Arthur F., Fulton, Mo., assignor, by mesne assignments, to American Arch Company. Locomotive arch brick. 1,755,682; Apr. 22.
Becker, Francis C., assignor, by mesne assignments, to Hussmann-Ligonier Company, St. Louis, Mo. Show-case refrigerator. 1,755,384; Apr. 22.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,755,381; Apr. 22.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,755,382; Apr. 22.
Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,755,383; Apr. 22.
Behrman, Abraham S., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill. Preparing siliceous materials. 1,755,496; Apr. 12.
Beidler, Ford E., assignor of one-third to S. Alsop, one-third to C. E. Crowley, and one-third to F. E. Chester, New York, N. Y. Combination electric-lighting apparatus. 1,755,385; Apr. 22.
Belcher, George E., Company. (See Reinhardt, Louis W., assignor.)
Belden, Clements G., assignor to General Motors Corporation, Detroit, Mich. Brake-cam centralizer. 1,755,977; Apr. 22.
Bendix-Cowdrey Brake Tester, Inc. (See Donavan, Paul J., assignor.)
Benedict, Curtis C., and H. A. Tullis, assignors to Flach and Benedict, Inc., Los Angeles, Calif. Posting tray. 1,755,764; Apr. 22.
Benjamin, Bert R., Oak Park, Ill., assignor to International Harvester Company. Tractor cultivator. 1,755,806; Apr. 22.
Benjamin, John M., Beverly, Mass., assignor, to The Turner Tanning Machinery Company, Portland, Me. Measuring machine. 1,755,172; Apr. 22.
Bennett Box Company. (See Boughton, Willis A., assignor.)
Benoit, Leon, Chicago, Ill. Egg carton. 1,755,688; Apr. 22.
Bentley, Anson J., Niles, Ohio. Coupler. 1,755,164; Apr. 22.
Berck, Alvin R., Hastings, Nebr. Grinding machine. 1,755,862; Apr. 22.
Bernard, James T., Danville, Va. Brake. 1,755,909; Apr. 22.
Bernard, Stephen, and W. J. Glenn, Holton, Kansas. Poultry feeder. 1,755,532; Apr. 22.
Berry, Edward C., Melrose, assignor to Chilton Pen Company, Boston, Mass. Fountain pen. 1,755,586; Apr. 22.
Berthold, Walter. (See Kluge, K., and Berthold.)
Bethlehem Steel Company. (See Kinney, James A., assignor.)
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubrication of bearings on pivoted structures. 1,755,626; Apr. 22.
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubrication of bearings on pivoted structures. 1,755,627; Apr. 22.
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubrication of bearings on pivoted structures. 1,755,628; Apr. 22.
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Liquid-distributing system. 1,755,629; Apr. 22.
Biscayne Trust Company et al., executors. (See Gold, Egbert, H., assignor.)
Bischof, Bernhard, Geneva, assignor of one-half to C. Haccius, Cologny-Geneva, Switzerland. Pump and motor unit for refrigerating machines. 1,755,910; Apr. 22.
Bishop, George O., Salt Lake City, Utah. Fan. 1,755,863; Apr. 22.
Black, Joseph, Rochester, N. Y. Back and chest protector. 1,755,533; Apr. 22.
Blackburn, Jasper, Webster Groves, and H. J. Peele, St. Louis, Mo.; said Peele assignor to said Blackburn. Wall bracket. 1,755,201; Apr. 22.
Blaksiee, Fred J. (See Merrill, R. K., and Blaksiee.)
Blalack, Jacob L., Los Angeles, Calif. Automatic gas and electricity controlling device. 1,755,497; Apr. 22.
Bland, Morton O., Shelbyville, Ind. Toy. 1,755,846; Apr. 22.
Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Bull-wheel-brake structure. 1,756,009; Apr. 22.
Bloss, Richard R., and R. C. Pfeil, assignors to The International Derrick & Equipment Company, Columbus, Ohio. Self-aligning pitman bearing. 1,755,723; Apr. 22.
Boettger, Henry W., et al. (See Michallovsky, Nicholas M., assignor.)
Bohn Aluminum & Brass Corporation. (See Nelson, Adolph L., assignor.)
Boles, George I., Wayne, Pa. Lock nut. 1,755,807; Apr. 22.
Bömig, Rudolf, Rotba/Leipzig, Germany. Rail-bonding means. 1,755,765; Apr. 22.
Borkhuis, Louis J., jr., Vayland, S. Dak. Mower guard. 1,755,534; Apr. 22.
Boss, Frank J., Edinburg, Tex. Hill dropper. 1,755,498; Apr. 22.
Bossert Corporation, The. (See Clement, Walter J., assignor.)
Boucher Cork Co. (See Grupe, William F., assignor.)
Boughton, Willis A., Cambridge, assignor to Bennett Box Company, Boston, Mass. Plastic process. 1,756,010; Apr. 22.
Bovard, William P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail bond. 1,755,466; Apr. 22.
Boyd, William A., Detroit, Mich. Jar cover or similar article. Des. 80,996; Apr. 22.
Boye, James H., Chicago, Ill. Curtain rod or similar article. Des. 80,997; Apr. 22.
Brandenburg, Francis C., assignor to The Wood Shovel and Tool Company, Piqua, Ohio. Shovel and shovel handle. 1,755,236; Apr. 22.
Brandt, William E. (See Cowley, Edwin F., assignor.)
Bratrud, Otto M., Seattle, Wash. Adjustable cutting instrument. 1,755,535; Apr. 22.
Bray, Patrick H., Long Beach, Calif. Built-up standing-column pump. 1,755,421; Apr. 22.
Brayant, William Le R., Springfield, Vt. Wheel head and the like. 1,755,238; Apr. 22.
Brazell, Thomas W., Pringle, S. Dak. Gate-operating mechanism. 1,755,948; Apr. 22.
Brecht, Walter, and E. Schaun, Augsburg, Germany. Apparatus for regulating lateral movement of longitudinal sieves. 1,755,202; Apr. 22.
Bredenberg, Alfred, Champlain, N. Y., assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company. Bookbinding or covering machine. 1,755,237; Apr. 22.
Breisky, John V., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Direct-current relay. 1,755,766; Apr. 22.
Brennan, Charles T., Waterbury, Conn. Open-die-heading machine. 1,755,312; Apr. 22.
Bridenbaugh, Elmer H. (See Martin, S. O., and Bridenbaugh.)
Bridgeport Hardware Manufacturing Corporation, The. (See Hobbs, Willis F., assignor.)
Bright, George B., Detroit, Mich. Ice plant. 1,755,203; Apr. 22.
Bristol, Wm. H., Talking Picture Corporation. (See Thompson, Lincoln, assignor.)
Broad, William, Beaver Falls, assignor of three-fourths to H. E. McLain, Pittsburgh, Pa. Insulating device. 1,755,587; Apr. 22.
Bromig, Karl, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Production of glutaminic acid. 1,755,683; Apr. 22.
Bronk, Charles W., Binghamton, N. Y. Screw holder and driver. 1,755,588; Apr. 22.
Brons, Jan, Appingedam, assignor to Naamlooze Vennootschap Kromhout Motoren Fabriek D. Goedkoop jr., Amsterdam, and Johan H. de Jongh, Hilligersberg, near Rotterdam, Netherlands. Engine provided with a piston and a connecting rod. 1,755,347; Apr. 22.
Brown, A. G., Boveri & Cie. (See Gaudenzi, Arthur, assignor.)
Brown, Alexander T., Syracuse, N. Y. Motor agricultural machine. 1,755,767; Apr. 22.
Brown & Bailey Company. (See Helm, Jacob C., assignor.)
Brown & Bailey Company. (See Keppler, Albert E., assignor.)
Brown, Clifford S., Jersey City, N. J. Book and storage stack. 1,755,589; Apr. 22.
Brown Company. (See Root, Bertwell C., assignor.)
Brown, Elmer B., C. N. Frey, and H. H. Harkins, New York, N. Y., assignors, by mesne assignments, to Standard Brands Incorporated, Dover, Del. Food product. 1,755,864; Apr. 22.
Brown, James C., assignor to E. O. Frederics, New York, N. Y. Combination heater for permanent waving. 1,755,173; Apr. 22.
Brown-Lipe Gear Company. (See Carhart, George C., assignor.)
Brown-Line Gear Company. (See Eaton, Ernest, assignor.)
Brown, Theophilus, and C. G. Strandlund, assignors to Deere & Company, Moline, Ill. Tractor plow. 1,755,808; Apr. 22.
Bruckmann, Peter C., and W. R. Hager, St. Louis, Mo., assignors, by mesne assignments, to Vorclone Corporation, Milwaukee, Wis. Laundry-drum construction. 1,755,867; Apr. 22.
Bruns, Charles E. (See Curtis, Clancy R., assignor.)
Bucklen, Herbert E., Corporation. (See Bucklen, Herbert E., assignor.)
Bucklen, Herbert E., Elkhart, Ind., assignor to Herbert E. Bucklen Corporation. Windmill drive. 1,755,422; Apr. 22.
Budde, Frank J., St. Louis, Mo. Ornamental device for automobile radiators. 1,755,630; Apr. 22.
Buffalow, Oscar T., Chattanooga, Tenn., and A. Hajos, Atlanta, Ga. Heating apparatus. 1,755,204; Apr. 22.
Bull, Arthur W., Naugatuck, Conn., assignor to The Dorr Company, New York, N. Y. Manufacture of sugar. 1,755,165; Apr. 22.
Bunte Brothers. (See Westerfield, Brasher O., assignor.)

Buraux, Maurice A. E. (See Buraux, R. L. G., and Massu, assignors.)
Buraux, René L. G., Le Pre-St.-Gervais, and P. J. Massu, Paris, assignors of one-third to M. A. E. Buraux, Le Pre-St.-Gervais, France. Manufacture of tubular cords or braids. 1,755,809; Apr. 22.
Burdick Corporation, The. (See Anderson, Fritz A., assignor.)
Burger, Frederick W. (See Stockfleth, B., and Burger.)
Burmester, Ernst, Burg, near Bremen, and H. Hein, Bremen, assignors to Yacht- und Bootswerft Burmester m. b. H., Burg, near Bremen, Germany. Boat. 1,755,724; Apr. 22.
Burnett, Richard A., Wilmington, N. C. Road-smoothing machine. 1,755,631; Apr. 22.
Burnstad, Sigurd H., Round Hill, Alberta, Canada. Combined road builder, ditcher, and brush breaker. 1,755,467; Apr. 22.
Busby, Junius E., Jackson, assignor of one-half to M. Deaton, Chavies, Ky. Prevent battering of new rails. 1,755,911; Apr. 22.
Büsching, Willi, Halle-Saale, Germany. Denitration of waste acid mixtures. 1,755,768; Apr. 22.
Bush, Sidney J. (See Henry, Arthur J., assignor.)
Butler, Henry R., Scotia, N. Y., assignor to General Electric Company. Coupling circuits. 1,755,865; Apr. 22.
Butler, William E., Easton, Pa. Electric speed governor. 1,755,313; Apr. 22.
Buttner, William C., assignor to The Bastian-Blessing Company, Chicago, Ill. Air cleaner. 1,755,423; Apr. 22.
Buxbaum, Joseph, Brooklyn, N. Y. Knockdown window screen. 1,755,866; Apr. 22.
Cadieux, Joseph O., assignor, by mesne assignments, to Connecticut Telephone & Electric Corporation, Meriden, Conn. Electric signal switch. 1,755,167; Apr. 22.
California Corrugated Culvert Company. (See Chambers, Jack B., assignor.)
Campbell, John B., Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Floor covering. 1,755,978; Apr. 22.
Campbell, Thomas N., et al. (See Linn, F. F., and Negles, assignors.)
Campos, Gino, Milan, Italy. System for the protection of electrical installations against overvoltages. 1,755,979; Apr. 22.
Canavan, William F., Montreal, Quebec, Canada. Safety closure for wall openings. 1,755,868; Apr. 22.
Cannon Electric Development Company. (See Cannon, James H., assignor.)
Cannon, James H., assignor to Cannon Electric Development Company, Los Angeles, Calif. Electric service connection. 1,755,166; Apr. 22.
Capen, Joseph S., Stoughton, Mass. Overshoe skid. 1,755,348; Apr. 22.
Capulator-Aktiebolaget. (See Behmer, Erik A., assignor.)
Car Devices Company. (See Hannaford, Cleon M., assignor.)
Carbt, Paul P., Chicago, Ill. Radiator meter. 1,755,174; Apr. 22.
Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Transmission mechanism. 1,755,769; Apr. 22.
Carlisle, Benjamin H., Petersburg, Ind. Oil filter. 1,755,912; Apr. 22.
Carlson, John O., assignor to Truscon Steel Company, Youngstown, Ohio. Weather strip for metal sash. 1,755,632; Apr. 22.
Carney, Samuel C., Tulsa, Okla., assignor to Shell Petroleum Corporation. Refrigeration. 1,755,810; Apr. 22.
Carr, Fred S., Newton, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Nut and screw fastening. 1,755,590; Apr. 22.
Carr, John E., Atlanta, Ga. Loose-leaf binder. 1,755,770; Apr. 22.
Carr, Moses F., Lexington, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Separable fastener. 1,755,591; Apr. 22.
Carr, Moses F., Lexington, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Buckle device. 1,755,592; Apr. 22.
Carroll, Monroe W., Beaumont, Tex. Well-boring apparatus. 1,755,424; Apr. 22.
Carroll, Thomas, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,755,499; Apr. 22.
Carry, Edward F., Chicago, Ill. Car vestibule and door arrangement. 1,755,239; Apr. 22.
Carter, Alva J., assignor to Carter Radio Company, Chicago, Ill. Rheostat and potentiometer. 1,755,314; Apr. 22.
Carter Radio Company. (See Carter, Alva J., assignor.)
Carthage Mills Incorporated. (See Campbell, John B., assignor.)
Carvalho, Leslie R. N., assignor to The Closure Service Company, Toledo, Ohio. Closure. 1,755,168; Apr. 22.
Cassé, Marcel. Essonnes, Seine-et-Oise, France. Lathe mechanism for oval turnings. 1,755,349; Apr. 22.
Caterpillar Tractor Co. (See Smith, Horatio W., assignor.)
Cavadas, William E., New York, N. Y. Motor-cycle vending side car. 1,755,593; Apr. 22.
Centrifix Corporation. (See Hawley, Charles G., assignor.)
Chace, Hilma B., et al., executors. (See Chace, William M.)
Chace, W. M., Valve Company. (See Chace, William M., assignor.)
Chace, William M., deceased, Detroit, Mich.; A. H. Lindley, A. Cooper, and H. B. Chace, executors, assignors to W. M. Chace Valve Company, Detroit, Mich. Welding materials of dissimilar thermal characteristics. 1,755,425; Apr. 22.
Challenge Machinery Company, The. (See Lee, James E., assignor.)
Chamberlain, Rufus N., Depew, assignor to Gould Storage Battery Company, Inc., New York, N. Y. Battery-box-container composition and making same. 1,755,500; Apr. 22.
Chambers, Jack B., Houston, Tex., assignor to California Corrugated Culvert Company, West Berkeley, Calif. Metallic culvert. 1,755,594; Apr. 22.
Chambers, Roy F., San Gabriel, Calif. Chimney structure. 1,755,771; Apr. 22.
Chance, Albert B., Centralia, Mo. Earth anchor. 1,755,811; Apr. 22.
Chase, Hamilton C., assignor of one-fourth to T. Weber and one-fourth to H. Roe, Los Angeles, Calif. Valve. 1,755,536; Apr. 22.
Chase, Jules, Bronx, N. Y. Lady's undergarment. Des. 80,998; Apr. 22.
Chemical Research & Designing Corporation. (See De Jahn, F. W., and Dely, assignors.)
Cherry-Burrell Corporation. (See Feldmeier, Harvey, assignor.)
Cheshire, Edward, St. Petersburg, Fla. Cutter. 1,755,468; Apr. 22.
Chester, Frank E., et al. (See Beidler, Ford E., assignor.)
Chicago-Cleveland Car Roofing Company. (See Jacobs, Francis A., assignor.)
Chilton Pen Company. (See Berry, Edward C., assignor.)
Chireix, Henri, Paris, France. Vacuum-tube generator system. 1,755,386; Apr. 22.
Chittenden, Elbert. (See Vilneau, W. W., and Chittenden.)
Christensen, Alfred C., assignor to National Engineering Company, Chicago, Ill. Door-operating mechanism for mixing machines. 1,755,426; Apr. 22.
Christensen, Jens A., Omaha, Nebr. Pneumatic mattress. 1,755,205; Apr. 22.
Christensen, Niels C., Salt Lake City, Utah. Internal-combustion engine. 1,755,501; Apr. 22.
Christfield, John G. (See Holliday, H., McKnight, and Christfield.)
Christmann, Ludwig J., Jersey City, N. J., assignor to American Cyanamid Company, New York, N. Y. Inhibitor material. 1,755,812; Apr. 22.
Christofferson, Christian A., St. Paul, Min., assignor to The General Railway Signal Company. Acknowledging device for train-control systems. 1,755,772; Apr. 22.
Christophersen, Herbert, East Orange, N. J., assignor to Revere Rubber Company, Chelsea, Mass. Shaft protector and manufacturing the same. 1,755,887; Apr. 22.
Chubb, Rowland N., Los Angeles, Calif. Changeable sign. 1,755,315; Apr. 22.
Church, Walter L., assignor of one-half to W. L. Pearce, Houston, Tex. Casing cutter. 1,755,206; Apr. 22.
Church, Walter L., assignor of one-half to W. L. Pearce, Houston, Tex. Pipe holder. 1,755,572; Apr. 22.
Cincinnati Time Recorder Company, The. (See Yates, James W., assignor.)
Clark, Carl L., and W. W. Galbreath, assignors to The Youngstown Pressed Steel Co., Warren, Ohio. Sectional box and platform. 1,755,725; Apr. 22.
Clark, George J. J., Whitman, and E. B. Jones, South Weymouth, assignors to National Fireworks, Inc., West Hanover, Mass. Aerial flare. 1,755,388; Apr. 22.
Clark, George J. J., Whitman, and E. B. Jones, South Weymouth, assignors to National Fireworks, Inc., West Hanover, Mass. Aerial flare. 1,755,389; Apr. 22.
Clark, Omar E., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Lubricator. 1,755,240; Apr. 22.
Clark, Ralph C. (See Goetz, H. W., and Clark.)
Clark, Willard F., assignor to Monarch Tool & Machinery Co., Chicago, Ill. Grease pump. 1,755,694; Apr. 22.
Clark Tractor Company. (See Stockfleth, B., and Burger, assignors.)
Clarkson, Thomas, London, England. Steam generator and water heater. 1,755,949; Apr. 22.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast distributing system. 1,755,980; Apr. 22.
Clement, Walter J., assignor to The Bossert Corporation, Utica, N. Y. Method of and mechanism for grinding and separating materials. 1,755,573; Apr. 22.
Closure Service Company, The. (See Carvalho, Leslie R. N., assignor.)
Cochran, Rae E., assignor to The D. L. Auld Company, Columbus, Ohio. Hub cap. 1,755,427; Apr. 22.
Coe, James C. (See Kositzky, James C.)
Coe, Robert W., and M. M. Bacon, Tampa, Fla. Railway-car-runway construction. 1,755,241; Apr. 22.
Coffman, Robert B., New Alexandria, Pa. Hoisting device. 1,755,574; Apr. 22.
Cole, Clifford E., Birmingham, Ala., assignor, by mesne assignments, to Nineteen Hundred Corporation, Binghamton, N. Y. Churn. 1,755,813; Apr. 22.
Coles, Henry L., assignor to Guardian Metals Company, Hamilton, Ohio. Producing composite metals. 1,755,913; Apr. 22.

Colladay, Edward F. (See Clement, Edward E., assignor.)
Collings, William A., assignor to Silica Products Co., Los Angeles, Calif. Hydraulic cement and other calcareous plastics. 1,755,502; Apr. 22.
Collins, Cornelius, Los Angeles, Calif. Stud or the like. 1,755,503; Apr. 22.
Collins Loom Works Inc. (See Hildebrandt, Louis H., assignor.)
Colt, Samuel S., Orange, N. J. Concrete-form-clamping device. 1,755,284; Apr. 22.
Colucci, Giuseppe, Naples, Italy. Device for transforming a uniform rotary motion into an alternating motion with different speeds in two directions. 1,755,914; Apr. 22.
Columbia Phonograph Company. (See Cox, Henry C., assignor.)
Comiskey, Jack, Kansas City, Kans. Automobile bumper. 1,755,207; Apr. 22.
Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 80,999; Apr. 22.
Concealed Door Check Company. (See Eastman, Floyd K., assignor.)
Conill, Fernan O., Cannes, France. Safety razor. 1,755,726; Apr. 22.
Connecticut Telephone & Electric Corporation. (See Cadieux, Joseph O., assignor.)
Connellee, James E., Baltimore, Md. Sanding appliance for use with locomotives. 1,755,428; Apr. 22.
Connery, William M., Philadelphia, Pa. Cover hanger and plate-fastening device. 1,755,469; Apr. 22.
Conover, Courtney, assignor to Monsanto Chemical Works, St. Louis, Mo. Refining crude phthalic anhydride. 1,755,242; Apr. 22.
Consortium für Elektrochemische Industrie. (See Herrmann, W. O., and Baum, assignors.)
Continental Can Company. (See Schaal, Norbert J., assignor.)
Continental Motors Corporation. (See Meyer, Andre J., assignor.)
Continental Optical Manufacturing Company. (See Gagnon, Leo O., assignor.)
Cook Electric Company. (See Persons, Lawrence M., assignor.)
Cooper, Arthur, et al., executors. (See Chace, William M.)
Cooper, Leonard St. C., Hollywood, Calif. Foldable box. 1,755,470; Apr. 22.
Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,755,429; Apr. 22.
Coty, Inc. (See Tourtois, Fernand, assignor.)
Cowley, Edwin F., assignor of one-half to W. E. Brandt, Cleveland, Ohio. Shock absorber means for vehicles. 1,755,685; Apr. 22.
Cox, Henry C., Kew Gardens, N. Y., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn. Envelope. 1,755,814; Apr. 22.
Coyle, Joseph L., London, Ontario, Canada, assignor to E. Banning, trustee, Chicago, Ill. Filler for egg cartons. 1,755,208; Apr. 22.
Craig, Alvin M., New Haven, Conn., assignor to American Gear Shift Company, Inc., New York, N. Y. Gear shifter. 1,755,595; Apr. 22.
Cramer, Robert E., Brentwood, Pa. Air-heating furnace. 1,755,727; Apr. 22.
Crisson, George, East Orange, N. J., assignor, to American Telephone and Telegraph Company. Signaling means for telephone systems. 1,755,248; Apr. 22.
Crosthwait, David N., jr., assignor to C. A. Dunham Company, Marshalltown, Iowa. Differential vacuum pump. 1,755,430; Apr. 22.
Crowley, Charles E., et al. (See Beidler, Ford E., assignor.)
Cunningham, Arthur B., assignor to Republic Flow Meters Co., Chicago, Ill. Sample tube. 1,755,285; Apr. 22.
Cunningham, C. C., et al. (See Dwelle, Walter K., assignor.)
Curtis, Arthur H. (See Reyner, J. H., and Curtis.)
Curtis, Clancy R., assignor of one-half to C. E. Bruns, St. Paul, Minn. Feather renovator. 1,755,471; Apr. 22.
Cutin, Jacobo. (See Güede, M. G., and Cutin.)
Cutler-Hammer, Inc. (See Dean, Peter P., assignor.)
Danner, Joseph R., Wilmar, Calif. Umbrella-fastening means for bags. 1,755,209; Apr. 22.
Darlington, Joseph J., Winston-Salem, N. C. Electrical flash light. 1,755,472; Apr. 22.
Darsey, Van M. (See Green, M., and Darsey.)
Davies, W. Sanders, et al., trustees. (See Davis, Kenneth, assignor.)
Davis, Charles H., and H. W. Lueck, Park Ridge, assignors to Mathias Klein and Sons, Chicago, Ill. Snap. 1,755,286; Apr. 22.
Davis, Dunlap & Barney. (See Davis, Paul A., 3d, assignor.)
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Pressing-machine element for pressing machines. 1,755,773; Apr. 22.
Davis, Kenneth, assignor, by mesne assignments, to R. Peale, St. Benedict, Pa.; W. S. Davies, New York, N. Y.; and W. S. Wallace, Philadelphia, Pa., trustees. Circuit-controlling mechanism. 1,755,431; Apr. 22.
Davis, Paul A., 3d., assignor to Davis, Dunlap & Barney, Philadelphia, Pa. Bank counter. 1,755,917; Apr. 22.
De Alcocer, Francisco O., Los Angeles, Calif. Automobile radiator cap. 1,755,316; Apr. 22.
Dean, Peter P., Stamford, Conn., assignor, by mesne assignments, to Cutler-Hammer, Inc. Portable valve-operating mechanism. 1,755,432; Apr. 22.
Deaton, Matt. (See Busby, Junius E., assignor.)
Deaver, John T., et al. (See Dwelle, Walter K., assignor.)
Deere & Company. (See Brown, T., and Strandlund, assignors.)
Dehmer, Erik A., assignor to Capulator-Aktiebolaget, Stockholm, Sweden. Screw propeller. 1,755,633; Apr. 22.
De Jongh, Johan H., et al. (See Brons, Jan, assignor.)
Deisler, Harry W., assignor to The Wellington Machine Company, Wellington, Ohio. Spring caster. 1,755,537; Apr. 22.
De Jahn, Fredrik W., and J. G. Dely, assignors to Chemical Research & Designing Corporation, New York, N. Y. Coated metal and making the same. 1,755,686; Apr. 22.
Delco-Light Company. (See Lee, Ralph L., assignor.)
Dely, Joseph G. (See De Jahn, F. W., and Dely.)
De Mattia, Peter, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Vulcanising machine. 1,755,981; Apr. 22.
Dennis, William J., Chicago, Ill. Weather stripping. 1,755,687; Apr. 22.
Dennison, Robert L., Kansas City, Mo. Boiler feed-water apparatus. 1,755,317; Apr. 22.
De Pistoye, Henri, Paris, France. Alternating-current electric machine. 1,755,815; Apr. 22.
De Stefani, Tully, assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill. Cooler cabinet for soda fountains. 1,755,816; Apr. 22.
Detroit Vapor Stove Company, The. (See Sherman, Alvin G., assignor.)
Deutsche Gold & Silber Scheideanstalt vormals Roessler. (See Bromig, Karl, assignor.)
Dewey, Norman S., Airdrie, assignor to Stewarts & Lloyds Limited, Glasgow, Scotland. Lining of iron and steel pipes, tubes, and other hollow bodies. 1,755,634; Apr. 22.
Dexter Folder Company. (See Petersen, Alfred E., assignor.)
D'Halloy, Audoin. (See Barba, Adrien, assignor.)
Dibley, Raymond H., Bathurst, New South Wales, Australia. Internal-combustion engine. 1,755,817; Apr. 22.
Dietze, Eginhard, Westfield, N. J., assignor to American Telephone and Telegraph Company. Device for measuring level differences. 1,755,244; Apr. 22.
Dina, Augusto, Jersey City, N. J., assignor to The Precision Machine Co., Inc., New York, N. Y. Dowser or diaphragm for motion-picture apparatus. 1,755,175; Apr. 22.
Dindinger, Paul R., Florence, Ariz. Gun sight. 1,755,635; Apr. 22.
Dinesen, Laurits, Minneapolis, Minn. Vacuum pump or pulsator. 1,755,318; Apr. 22.
Dispersions Process, Inc. (See Pratt, William B., assignor.)
Dobson, Davis L., Wilmington, and P. J. Dobson, Kenansville, N. C. Mail bag and support therefor. 1,755,950; Apr. 22.
Dobson, Perry J. (See Dobson, Davis L. and P. J.)
Dodunski, Peter F., Solon, Ohio. Automatic fire alarm. 1,755,478; Apr. 22.
Doherty Research Company. (See Goldsborough, Winder E., assignor.)
Dohner, Bert E., Oakwood, near Dayton, Ohio. Making couplings. 1,755,210; Apr. 22.
Donaldson, Frank A., Minneapolis, Minn. Air cleaner. 1,755,319; Apr. 22.
Donavan, Paul J., Los Angeles, Calif., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester, Inc., Fitchburg, Mass. Brake-testing machine. 1,755,287; Apr. 22.
Dorr Company, The. (See Bull, Arthur W., assignor.)
Dow Chemical Company, The. (See Barstow, Edwin O., assignor.)
Dow Chemical Company, The. (See Putnam, Mark E., assignor.)
Dowdy, Hezakiah K., Cordele, Ga. Boll-weevil catcher. 1,755,774; Apr. 22.
Downey, Walter L., Richmond, Va. Cushion side bearing. 1,755,869; Apr. 22.
Draughon, Albert H., jr., Fort Myers, Fla. Fastening roll roofing to roofs. 1,755,538; Apr. 22.
Drinkwater, Anson, New Hartford, N. Y. Tire-chain hook. 1,755,870; Apr. 22.
Dual Speedometer Company, The. (See Martinet, Eugene F., assignor.)
Dubilier, William, New Rochelle, assignor to Radio Patents Corporation, New York, N. Y. Loud-speaker. 1,755,636; Apr. 22.
Dubsky, Arthur, Vienna, Austria. Pivotal wind screen for pyrophore cigar lighters. 1,755,951; Apr. 22.
Duisberg, Walter, Leverkusen, and W. Hentrich and L. Zeh, Wiesdorf near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Monoazo dyestuffs produced from aminobenzyl-*o*-sulfonic acid and acid substituted aromatic amines. 1,755,871; Apr. 22.
Duncan, J. W. (See Thompson, William H., assignor.)
Dungan, Jesse M., Fort Wayne, Ind. Gas stove. 1,755,474; Apr. 22.

Dunham, C. A., Company. (See Crosthwait, David N., jr., assignor.)
Dunn, Andrew C., St. Paul, Minn. Earpiece. 1,755,775; Apr. 22.
Dünnebier, Max. (See Winkler, A., and Dünnebier.)
Duplate Corporation. (See Sherts, J. H., and Lytle, assignors.)
Durham, Kenneth P., Seattle, Wash. Reversible paper clip. 1,755,915; Apr. 22.
Duriron Company, The. (See Jacobsen, Oystein, assignor.)
Düskow, Wilhelm, Berlin, Germany. Closure device for perfume bottles or the like. 1,755,433; Apr. 22.
Duwe, Friedrich, Mains, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany. Electrical switching apparatus. 1,755,689; Apr. 22.
Dwelle, Walter K., assignor of forty per cent to J. T. Deaver, twelve and one-half per cent to J. Lawlor, and seven and one-half to C. C. Cunningham, Houston, Tex. Fuselage for aeroplanes. 1,755,211; Apr. 22.
Eagle Knitting Mills. (See Goldstein, Arthur, assignor.)
Eames, George M., Bridgeport, Conn., and I. F. Webb, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Power-transmitter support. 1,755,687; Apr. 22.
Eastman, Floyd K., assignor to Concealed Door Check Company, Kokomo, Ind. Doorcheck. 1,755,288; Apr. 22.
Eaton, Ernest, assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Oil-tight transmission-gear head. 1,755,776; Apr. 22.
Eberhardt, Ulrich S., Maplewood, assignor to Newark Gear Cutting Machine Company, Inc., Newark, N. J. Shaft-advancing mechanism for use in hobbing long multiple grooves in shafts. 1,755,916; Apr. 22.
Ebert, Robert A., et al. (See Zisch, George J., assignor.)
Eckler, Wilhelm, Altona-Ottensen, Germany. Nozzle for sand-blast apparatus. 1,755,575; Apr. 22.
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Edwards, O. M., Company, The. (See Armstrong, Henry, assignor.)
Edwards, William A., Chicago, Ill. Fuel mixer. 1,755,289; Apr. 22.
Eells, Milton M., Chicago, Ill., assignor, by mesne assignments, to W. T. Lewis, Racine, Wis. Tuner. 1,755,982; Apr. 22.
Egry Register Company, The. (See Jackson, Philip A., assignor.)
Eisbhold, Karl. (See Schirmacher, K., and Eisbold.)
Electric Service Supplies Company. (See Smith, William H., assignor.)
Electrical Engineers Equipment Co. (See Jacobs, Ernest H., assignor.)
Elias, Amsih J., Decatur, Ill. Nut lock. 1,755,245; Apr. 22.
Elkhart Brass Manufacturing Company. (See Hansen, Albert E., assignor.)
Ellingson, Elling, San Francisco, Calif. Doorknob locking device. 1,755,434; Apr. 22.
Ellis, Howard G., Waltham, assignor, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Lasting jack. 1,755,246; Apr. 22.
Emsco Derrick & Equipment Company. (See Goeser, Edwin W., assignor.)
Ephrata Manufacturing Company. (See Prints, Daniel F., assignor.)
Eppenbach, William, College Point, assignor to United States Colloid Mill Corporation, Long Island City, N. Y. Homogenising mill. 1,755,576; Apr. 22.
Erber, Bernhard, Vienna, and F. Gantner, Modling, assignors to the firm of Gustav Gans & Co., Vienna, Austria. Method and apparatus of introducing and fusing-in the leading-in wires into the tubular foot of an electric glow-lamp. 1,755,988; Apr. 22.
Erskine, Ralph W., Mishawaka, Ind., assignor to Westinghouse Electric and Manufacturing Company. Lighting standard. Des. 81,000; Apr. 22.
Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Thermostat. 1,755,984; Apr. 22.
Evans, John M., Berkeley, assignor of one-half to G. W. Wallace, San Francisco, Calif. Manufacture of water-proof cement. 1,755,638; Apr. 22.
Evans, Walter W. (See Murrill, P. I., and Evans.)
Extruded Metal Products Company. (See Williams, Stephen L., assignor.)
Esegeta, Andrew, and C. D. Flamm, Chicago, Ill., assignors of fifty-five per cent to said Esgeta and forty-five per cent to said Flamm. Window construction. 1,755,435; Apr. 22.
Fagley, Clair R., Philadelphia, Pa. Convertible utensil. 1,755,918; Apr. 22.
Fahrenwald, Frank A., Cleveland Heights, Ohio. Electric-furnace resistor. 1,755,350; Apr. 22.
Fairleigh, Charles R., Liberal, Kans. Tool box. 1,755,475; Apr. 22.
Faries, David R., administrator. (See Thomson, Fred C.)
Faudi, Fritz, Sommerda, Germany. Stuffing box. 1,755,436; Apr. 22.
Favarger, François, Neuchatel, Switzerland, assignor, by mesne assignments, to The Teleregister Corporation, New York, N. Y. Electrical selecting circuits. 1,755,212; Apr. 22.
Fawcett, David B., Washington, D. C. Pressure-regulating valve. 1,755,639; Apr. 22.
Fazio, Antonio, Portland, Oreg. Brine-mixing apparatus. 1,755,437; Apr. 22.
Felardo, Alfred, New York, N. Y. Onion cutter. 1,755,351; Apr. 22.
Feldmeier, Harvey, Little Falls, N. Y., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Tank. 1,755,176; Apr. 22.
Felek, Julius, assignor to Metropolitan Lamp Co. Inc., New York, N. Y. Lamp base or similar article. Des. 81,001; Apr. 22.
Ferguson, Berlin S., assignor to The Marion Steam Shovel Company, Marion, Ohio. Excavating dipper. 1,755,438; Apr. 22.
Ferlin, John J. (See Goetz, H. W., and Clark, assignors.)
Fielding, John S., East Gary, Ind. Agricultural device. 1,755,247; Apr. 22.
Finch, Willis E. (See Stimpson, W. F., and Finch.)
Findlay Bros. Co. Limited. (See MacNabb, Keith C., assignor.)
Fischer, Erich, Hochst-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyeing cellulose esters or cellulose ethers. 1,755,640; Apr. 22.
Fischer, Frank, Rye, N. Y., and A. F. Van Pelt, Interlaken, N. J., assignors to Grant Oil Burner Corporation, Wilmington, Del. Electrical spark control for burners. 1,755,890; Apr. 22.
Fisher, Irving, New Haven, Conn. Comparascope. 1,755,590; Apr. 22.
Flach and Benedict, Inc. (See Benedict, C. C., and Tullis, assignors.)
Flamm, Charles D. (See Exegeta, A., and Flamm.)
Flexible Steel Lacing Company. (See Olsen, John C., assignor.)
Flink, John H., assignor, by mesne assignments, to Hood Rubber Company Inc., Watertown, Mass. Boot-tree. 1,755,248; Apr. 22.
Floor, Erik, and E. Sejersen, Chicago, Ill. Shock absorber. 1,755,290; Apr. 22.
Folberth, Frederick G. and W. M., Cleveland, Ohio. Signal. 1,755,249; Apr. 22.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Foster & Kleiser Company. (See Olmsted, Roger W., assignor.)
Foster, Walter W., Wichita Falls, Tex. Combination make-up cathead and friction hoist. 1,755,728; Apr. 22.
Foulke, Roy D., Warsaw, Ind., assignor to W. D. Leiter. Surgical splint. 1,755,641; Apr. 22.
Fox, Caroline L., New York, N. Y. Lingerie fastener. 1,755,291; Apr. 22.
Frederics, Ernest O. (See Brown, James C., assignor.)
Frederiksen, Claus, Nordborg, Denmark. Lancet. 1,755,777; Apr. 22.
Freund, Louis. (See Schmidt, Lambert, jr., assignor.)
Frey, Charles N. (See Brown, E. B., Frey, and Harkins.)
Freydberg, Aaron, New York, and J. Marcus, Brooklyn, N. Y.; said Marcus assignor, by mesne assignments, to O. K. Thomas and J. D. Malkin, trading as National Pad and Binding Company, Philadelphia, Pa. Waistband. 1,755,213; Apr. 22.
Freysinger, John B., New Britain, Conn. Automobile door latch. 1,755,352; Apr. 22.
Friberg, John, Westboro, Mass. Milk strainer. 1,755,919; Apr. 22.
Fried. Krupp Grusonwerk Aktiengesellschaft. (See Stephani, Hermann, assignor.)
Frisch, Martin, St. Louis, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y. Roller journal. 1,755,250; Apr. 22.
Frost, William J., Mansfield, La. Reversible train-classification signal. 1,755,577; Apr. 22.
Fruwirth, Arthur, Brooklyn, N. Y. Scale and attachment for reducing and enlarging cameras. 1,755,177; Apr. 22.
Furbush, Frank L., Westford, assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass. Continuous extractor. 1,755,214; Apr. 22.
Furnari, Carmelo, T. Basile, and R. Sciotto, Altoona, Pa. Rail joint. 1,755,920; Apr. 22.
Gaddis, Preston G., Oklahoma City, Okla. Distributor spike. 1,755,251; Apr. 22.
Gagnon, Leo O., Newark, N. J., assignor, by mesne assignments, to Continental Optical Manufacturing Company, Indianapolis, Ind. Making ophthalmic mountings. 1,755,292; Apr. 22.
Galbreath, William W. (See Clark, C. L., and Galbreath.)
Gammeter, John R. (See Leguillon, C. W., and Gammeter.)
Gannon, Larry D., Joliet, Mont. Warning fuse. 1,755,842; Apr. 22.
Gant, Charlie, Akron, Ala. Demonstration device. 1,755,952; Apr. 22.
Gantner, Ferdinand. (See Erber, B., and Gantner.)
Gans, Gustav, & Co. (See Erber, B., and Gantner, assignors.)
Gansinotti, Paul B., Union City, N. J. Paper product. 1,755,818; Apr. 22.
Gapp, John, Scranton, Pa. Track-sanding apparatus. 1,755,643; Apr. 22.
Gardiner, Henry C., Anaconda, Mont. Granulated product and making same. 1,755,985; Apr. 22.
Gardner-Denver Company, The. (See Clark, Omar E., assignor.)
Gardner-Denver Company, The. (See Grimth, Richard, assignor.)
Gardner-Denver Company. (See Mueller, William G., assignor.)

CARNEGIE LIBRARY OF ATLANTA

Gardner-Denver Company. (See Pearson, Gustav C., assignor.)
Garvey, Henry, jr., St. Francisville, Ill. Theft alarm. 1,755,644; Apr. 22.
Gaudenzi, Arthur, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Rectifier system. 1,755,320; Apr. 22.
Gebrüder Hardy Maschinenfabrik und Giesserei A. G. (See Leuchter, Richard L., assignor.)
Gendler, Louis, New York, N. Y. Bagle-forming machine. 1,755,921; Apr. 22.
General Aniline Works, Inc. (See Duisberg, W., Hentrich, and Zeh, assignors.)
General Aniline Works, Inc. (See Fischer, Erich, assignor.)
General Aniline Works, Inc. (See Henle, F., and Vossen, assignors.)
General Aniline Works, Inc. (See Kalischer, G., and Scheyer, assignors.)
General Aniline Works, Inc. (See Schirmacher, K., and Elshold, assignors.)
General Aniline Works, Inc. (See Wahl, Ottmar, assignor.)
General Electric Company. (See Baker, Walter R. G., assignor.)
General Electric Company. (See Butler, Henry R., assignor.)
General Electric Company. (See Halvorson, Cromwell A. B., assignor.)
General Electric Company. (See Singleton, Harold C., assignor.)
General Electric Company. (See Willard, Waldo W., assignor.)
General Motors Corporation. (See Belden, Clements G., assignor.)
General Motors Corporation. (See Golden, Harry S., assignor.)
General Motors Research Corporation. (See Hallett, George E. A., assignor.)
General Motors Research Corporation. (See Moyse, William H., assignor.)
General Railway Signal Company, The. (See Christofferson, Christian A., assignor.)
General Zeolite Company. (See Behrman, Abraham S., assignor.)
George, Henri, assignor to Societe Quartz & Silice, Paris, France. Manufacture of transparent used pure silica. 1,755,953; Apr. 22.
Gerlach, Fred, et al., trustees. (See Graham, William S., assignor.)
Gerosa, Carl N., Rochester, N. Y. Combined dish washing and drying machine. 1,755,539; Apr. 22.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Herzog, Alf., assignor.)
Gibb, John A., assignor to Zieley Processes Corporation, New York, N. Y. Distillation apparatus. 1,755,778; Apr. 22.
Glass, John B., Grand Island, Nebr. Chair. 1,755,215; Apr. 22.
Glenn, William J. (See Bernard, S., and Glenn.)
Glidden, Alfred A., Watertown, and A. R. Lukens, Belmont, assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass. Manufacturing and treating asphalt biscuits. 1,756,011; Apr. 22.
Globe-Wernicke Company, The. (See Smiley, Samuel, jr., assignor.)
Goebels, Paul, assignor to the firm G. Polysius, Dessau, Germany. Conveyer for pulverized material. 1,755,779; Apr. 22.
Goeser, Edwin W., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Upset lock pin for chain belts. 1,755,252; Apr. 22.
Goeser, Edwin W., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. U-bolt construction. 1,755,253; Apr. 22.
Goets, Charles E., Benson, Ariz. Load brace for railway cars and the like. 1,755,729; Apr. 22.
Goets, Herbert W., Alhambra, and E. C. Clark, assignors of one-third to J. J. Ferlin, Los Angeles, Calif. Rod spider. 1,755,986; Apr. 22.
Gold, Egbert H., deceased, Evanston, Ill.; M. J. Gold and Biscayne Trust Company executors. Supporting means for flexible pipe mechanism. 1,755,254; Apr. 22.
Gold, Margaret J., et al., executors. (See Gold, Egbert H.)
Gold, Monroe, Brooklyn, N. Y. Fountain pen or similar article. Des. 81,002; Apr. 22.
Goldberg, Maximilian M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,755,504; Apr. 22.
Golden, Harry S., Flint, assignor to General Motors Corporation, Detroit, Mich. Head-lamp support. 1,755,987; Apr. 22.
Goldsborough, Winder E., South Norwalk, Conn., assignor to Doherty Research Company, New York, N. Y. Reciprocating engine. 1,755,578; Apr. 22.
Goldstein, Arthur, assignor to Eagle Knitting Mills, Milwaukee, Wis. Cap. 1,755,293; Apr. 22.
Goodenough, Wells P. (See Vilneau, W. W., and Chittenden, assignors.)
Goodrich, B. F., Company, The. (See Legullons, C. W., and Gammeter, assignors.)
Goodyear, Robert, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Rail bond. 1,755,439; Apr. 22.
Gösser, Adolf, Hennef-Sieg, Germany. Game. 1,755,730; Apr. 22.
Gotelli, Anthony, New York, N. Y. Pitting fruit. 1,755,872; Apr. 22.
Goudard, Maurice, Neuilly sur Seine, France. Carburetor. 1,755,988; Apr. 22.
Gould Storage Battery Company. (See Chamberlain, Rufus N., assignor.)
Graham, John H., New York, N. Y. Brake shoe. 1,755,645; Apr. 22.
Graham, William S., Canton, assignor, by mesne assignments, to Fred Gerlach and A. B. Keller, trustee, Chicago, Ill. Two-way tractor plow. 1,755,819; Apr. 22.
Gram, Thomas. (See Söderlund, O., and Gram.)
Grant, Dudley H., Moorestown, N. J., assignor to Standard Oil Development Company. Composition for repelling insects. 1,755,178; Apr. 22.
Grant Oil Burner Corporation. (See Fischer, F., and Van Pelt, assignors.)
Grathowski, Alexander. (See Klepadlo, K., and Gratkowski.)
Grearson, Frederick A., and W. A. Lane, Barre, Vt. Stoneworking machine. 1,755,878; Apr. 22.
Great Western Fuse Company. (See Lavarack, Frederick, C., assignor.)
Green, Frank. (See Newton, E. H., and Green.)
Green, Matthew, and V. M. Darsey, assignors to Parker Rust-Proof Company, Detroit, Mich. Producing a phosphate coating on metal. 1,755,391; Apr. 22.
Greenewald, Eugene L., Flushing, N. Y. Bottle cap, container, and other reenforced product. 1,755,597; Apr. 22.
Griffith, Richard, Hydeville, Vt., assignor by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Guide for rock drills. 1,755,255; Apr. 22.
Groeniger, William C. (See Kelly, E. G., and Zirkle, assignors.)
Gross, Edward L., Chicago, Ill. Oil-refining device. 1,755,440; Apr. 22.
Gross, Phillip W., et al. (See Stevens, Arthur C., assignor.)
Grover, Ray, Milwaukee, Wis. Piston-ring clamp. 1,755,294; Apr. 22.
Grupe, William F., Lyndhurst, N. J., assignor to Boucher Cork Co., Inc., New York, N. Y. Cigarette slide container. 1,755,579; Apr. 22.
Guardian Metals Company. (See Coles, Henry L., assignor.)
Güede, Manuel G., and J. Cutin, Tucuman, Argentina. Parachute. 1,755,954; Apr. 22.
Gunn, Charles H., San Francisco, Calif. Controllable auxiliary wing for airplanes. 1,755,540; Apr. 22.
Gunter, James E., Baltimore, Md. Container. 1,755,441; Apr. 22.
Gunter, James E., Baltimore, Md. Container. 1,755,442; Apr. 22.
Günther, Fritz, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Sulfonic acids of high wetting, cleaning, and emulsifying power. 1,755,179; Apr. 22.
Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Display carton. 1,755,731; Apr. 22.
Gzupkaytie, Matt, Baltimore, Md. Rim lug. 1,755,732; Apr. 22.
Haage, Konrad. (See Pfüger, A., and Haage.)
Haas, Carl F., South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company. Lighting unit. Des. 81,003; Apr. 22.
Haccius, Charles. (See Bischof, Bernhard, assignor.)
Hagen, Clarence R. (See Johnston, E. A., Baker, and Hagen.)
Hager, William, and H. Riekert, Cincinnati, Ohio. Air-moistening device for combustion engines. 1,755,733; Apr. 22.
Hager, William R. (See Bruckmann, P. C., and Hager.)
Hagopian, Serpoohie, San Francisco, Calif. Combined awning and screen. 1,755,955; Apr. 22.
Hagstrom, Carl G. (See Hagstrom, Carl J. and C. G.)
Hagstrom, Carl J. and C. G., Glen Cove, N. Y. Secret-door latch. 1,755,392; Apr. 22.
Hajos, Albin. (See Buffalow, O. T., and Hajos.)
Halach, Stephen F. (See Nagy, Louis, assignor.)
Hall, Emil E., Groton, Conn. Motor-vehicle rear-curtain operator. 1,755,734; Apr. 22.
Hallett, George E. A., assignor to General Motors Research Corporation, Detroit, Mich. Brake control. 1,755,989; Apr. 22.
Halstead, Elliott N., Princeton, W. Va. Spit. 1,755,646; Apr. 22.
Halvorson, Cromwell A. B., Lynn, Mass., assignor to General Electric Company. Floor lamp or similar article. Des. 81,004; Apr. 22.
Hamwi, Ernest, St. Louis, Mo. Pastry cup. Des. 81,005; Apr. 22.
Hanau Engineering Company. (See Hanau, Rudolph L., assignor.)
Hanau, Rudolph L., assignor to Hanau Engineering Company, Inc., Buffalo, N. Y. Dental blowtorch. 1,755,216; Apr. 22.
Hancock, Arden, Houston, Tex. Vehicle bumper. 1,755,393; Apr. 22.
Hancock Mfg. Co. (See Marple, Rollo, assignor.)

Hanlon, John H. and J. W., Somerville, assignors to Hanlon Locomotive Sander Company, Winchester, Mass. Track sander. 1,755,598; Apr. 22.
Hanlon, John W. (See Hanlon, John H. and J. W.)
Hanlon Locomotive Sander Company. (See Hanlon, John H. and J. W., assignors.)
Hannaford, Cleon M., assignor to Car Devices Company, Incorporated, Richmond, Va. Lock for connecting pins or bolts. 1,755,874; Apr. 22.
Hansen, Albert E., Elkhart, Ind., assignor to Elkhart Brass Manufacturing Company. Standpipe connection. 1,755,735; Apr. 22.
Hanson, Charles W. (See Perkins, M. F., Hanson, and O'Harra.)
Harbert, Victor H., Chicago, Ill. Pipe-anchoring means. 1,755,894; Apr. 22.
Harkins, Harvey H. (See Brown, E. B., Frey, and Harkins.)
Harkness, Ernest V., Decatur, Ill. Ice tongs. 1,755,256; Apr. 22.
Harms, Albert G., Chicago, Ill. Loop aerial. 1,755,820; Apr. 22.
Hartford-Empire Company. (See Hunter, Alfred R., assignor.)
Hartford-Empire Company. (See Mayers, Wilbur S., assignor.)
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartzler, Melvin E., Downers Grove, and E. P. Romilly, Chicago, Ill. Upright highway marker. 1,755,443; Apr. 22.
Harvey, George F., Victoria, British Columbia, Canada. Trolling spoon. 1,755,647; Apr. 22.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,755,580; Apr. 22.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Door-operating mechanism. 1,755,581; Apr. 22.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,755,582; Apr. 22.
Haward, Eric A., Chiswick, England, assignor to W. H. S. Lloyd Co., Inc., New York, N. Y. Wall paper. Des. 81,006; Apr. 22.
Hawley, Charles G., Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio. Line filter. 1,755,780; Apr. 22.
Hawley, Roy G., Bradford, Pa. Pump for oil wells. 1,755,990; Apr. 22.
Hayes, Harvey C., Washington, D. C. Sound receiver. 1,755,583; Apr. 22.
Hayward, Carle R. (See Smith, Cyril S., assignor.)
Hecox, Albert E., Lansing, Mich. Rowing apparatus. 1,755,922; Apr. 22.
Heim, Jacob C., Philadelphia, Pa., assignor to Brown & Bailey Company. Foldable box. 1,755,690; Apr. 22.
Hein, Hermann. (See Burmeester, E., and Hein.)
Heise, Roscoe S., Dayton, Ohio. Door expander. 1,755,691; Apr. 22.
Hele-Shaw, Henry S., and T. E. Beacham, London, England. Furniture and like caster. 1,755,670; Apr. 22.
Heller, Frank J., Woodhaven, N. Y. Banjo. 1,755,821; Apr. 22.
Hellman, Marco H., Los Angeles, Calif. Shipping and display case for bridles. 1,755,295; Apr. 22.
Heltzel, John N., Warren, Ohio. Road form. 1,755,541; Apr. 22.
Hendrickson, John B., Philadelphia, Pa., assignor to Welding Engineers Incorporated. Welding hydraulic apparatus. 1,755,321; Apr. 22.
Henle, Franz, and B. Vossen, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. 6-chloro-2-amino-1-methylbenzene-4-sulphonic acid. 1,755,648; Apr. 22.
Henry, Arthur J., assignor of one-half to S. J. Bush, Los Angeles, Calif. Circulation element for tanks. 1,755,599; Apr. 22.
Hentrich, Winfrid. (See Duisberg, W., Hentrich, and Zeh.)
Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster socket. 1,755,322; Apr. 22.
Herrmann, Willy O., and E. Baum, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Preparation of condensation products of ethyl alcohol. 1,755,692; Apr. 22.
Herron, Albert O., Waterbury, Conn. Machine for forming hot metal. 1,755,823; Apr. 22.
Hershey, Carl G., El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y. Measuring instrument. 1,756,005; Apr. 22.
Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,755,600; Apr. 22.
Herthel, Eugene C., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 1,755,601; Apr. 22.
Herzog, Alf, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Arrangement for directional receiving. 1,755,180; Apr. 22.
Hesse Manufacturing Company, The. (See Seymour, William A., assignor.)
Hickel, Fred L., Ray, N. Dak. Fly exit. 1,755,542; Apr. 22.
Hicks, John R., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla. Transmission power take-off. 1,755,395; Apr. 22.
Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Fastening for pouches, wallets, and all kinds of leather containers. 1,755,296; Apr. 22.
Higgins, John C., San Diego, Calif. Automatic water-heater control-valve apparatus. 1,755,476; Apr. 22.
Hildebrandt, Edward, Tacoma, Wash. Can. 1,755,297; Apr. 22.
Hildebrandt, Louis H., assignor to Collins Loom Works Inc., Amsterdam, N. Y. Adjustable stop mechanism for yarn-measuring spool winders. 1,755,396; Apr. 22.
Hill, Roscoe A., St. Paul, Minn. Detachable commercial body for automobile tonneaux. 1,755,543; Apr. 22.
Hinde, James J., Sandusky, Ohio. Insulating lumber or wall board. 1,755,781; Apr. 22.
Hobbs, Willis F., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Screw driver and making the same. 1,755,822; Apr. 22.
Hoe, R., & Co. (See Strain, William J., assignor.)
Hokanson, Martin, assignor to Marshall-Wells Company, Duluth, Minn. Shovel. 1,755,923; Apr. 22.
Holden, Frank, Aldwych, London, England. Electrically-driven clock. 1,755,649; Apr. 22.
Holden, William H. T., Brooklyn, N. Y., assignor to Americal Telephone and Telegraph Company. Vacuum tube and preparing the same. 1,755,257; Apr. 22.
Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Battery-charging circuits. 1,755,258; Apr. 22.
Holliday, Harry, Glenshaw, W. McKnight, and J. G. Christfield, Butler, Pa., assignor, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio. Heating furnace. 1,755,875; Apr. 22.
Holliday, J. Margaret, administratrix. (See Loughridge, M. H., and Holliday.)
Holliday, John S. (See Loughridge, M. H., and Holliday.)
Homstead, Frank L., and W. R. Homstead, Pittsfield, Me. Belt replacer. 1,755,876; Apr. 22.
Homstead, Wilson R. (See Homstead, Frank L., and W. R.)
Honstead, Severn G., Nampa, Idaho. Display counter. 1,755,782; Apr. 22.
Hood Rubber Company, Inc. (See Ellis, Howard G., assignor.)
Hood Rubber Company, Inc. (See Flink, John H., assignor.)
Hood Rubber Company, Inc. (See Glidden, A. A., and Lukens, assignors.)
Hopkins, Loren L., West New York, N. J. Sanding device for vehicles. 1,755,823; Apr. 22.
Hopkins, Loren L., West New York, N. J. Sanding device for vehicles. 1,755,824; Apr. 22.
Hotchkin, Paul M., Chicago, Ill. Color flood lighting. 1,755,298; Apr. 22.
Hubbert, Leslie S., Edison, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filter-pot press. 1,755,353; Apr. 22.
Humphreys, Omar R. and W. G., Omaha, Nebr. Clutch. 1,755,259; Apr. 22.
Humphreys, Walter G. (See Humphreys, Omar R. and W. G.)
Hunt, Sydney, Birmingham, England. Cam mechanism. 1,755,956; Apr. 22.
Hunt, Sydney, Birmingham, England. Machine for the manufacture of hollow-blown glass articles. 1,755,957; Apr. 22.
Hunter, Albert E., Oak Park, assignor to Regal Musical Instrument Co., Chicago, Ill. Banjo or similar article. Des. 81,007; Apr. 22.
Hunter, Alfred R., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for retarding freely-falling mold charges. 1,755,897; Apr. 22.
Hunter, Eugene F. (See Sample, Wilbur S., assignor.)
Hunyady, Joseph, Mount Lebanon, Pa. Display revolving stand. 1,755,477; Apr. 22.
Hush, Foss C., Lincoln, Nebr. Meter box. 1,755,444; Apr. 22.
Hussmann-Ligonier Company. (See Becker, Francis C., assignor.)
Hydraulic Brake Company. (See Loughead, Malcolm, assignor.)
Hydraulic Press Manufacturing Company, The. (See Hubbert, Leslie S., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Günther, Fritz, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Lens, Wilhelm, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Leuchs, Otto, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Jahrstorfer, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schlecht, Leo, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schlosser, F., and Paquin, assignors.)
Ilson, Edward L., Patchogue, N. Y. Store front. Des. 81,008; Apr. 22.
Imai, Seichiro. (See Urano, S., and Imai.)
Impellitteri, Antonio, New London, Conn. Nonrefillable bottle. 1,755,783; Apr. 22.
Ingersoll-Rand Company. (See Murphy, Thomas L., assignor.)

Integrales et al. (See Sopranl, Paul, assignor.)
International Combustion Engineering Corporation. (See Frisch, Martin, assignor.)
International Derrick & Equipment Company, The. (See Bloss, Richard R., assignor.)
International Derrick & Equipment Company, The. (See Bloss, R. R., and Pfeil, assignors.)
International Harvester Company. (See Benjamin, Bert R., assignor.)
International Harvester Company. (See Johnston, E. A., Baker, and Hagen, assignors.)
International Harvester Company. (See Sandstrom, Felix C., assignor.)
International Nickel Company, The. (See Mudge, William A., assignor.)
Irish, Charles F., Bratenahl, Ohio. Apparatus for plant culture. 1,755,445; Apr. 22.
Irwin, John. (See Monk, Reginald H., assignor.)
Isaacson, Oliver T., St. Cloud, Minn. Connecting rod. 1,755,650; Apr. 22.
Jackman, John L., New York, N. Y. Household combination cutting machine. 1,755,446; Apr. 22.
Jackson, Philip A., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. 1,755,354; Apr. 22.
Jackson, William C., Wapato, Wash. Divider for mowing machines. 1,755,506; Apr. 22.
Jacobs, Ernest H., assignor to Electrical Engineers Equipment Co., Chicago, Ill. Lightning arrester. 1,755,324; Apr. 22.
Jacobs, Francis A., Warren, Ohio, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car-uncoupling device. 1,755,505; Apr. 22.
Jacobs, George, Detroit, Mich. Condenser. 1,755,181; Apr. 22.
Jacobsen, Oystein, Dayton, Ohio, assignor to The Duriron Company, Inc. Centrifugal pump. 1,755,217; Apr. 22.
Jacobson, Gustaf E., South Orange, N. J. Oil burner. 1,755,602; Apr. 22.
Jaenichen, Louis, Springfield Township, Oakland County, assignor to The Standard Computing Scale Company, Detroit, Mich. Scale. 1,755,478; Apr. 22.
Jahrstorfer, Michael. (See Pungs, W., and Jahrstorfer.)
Jalowetz, Eduard, Vienna, Austria. Improving brewing waters. 1,755,544; Apr. 22.
Janacek, Henry A., Lagrange, Tex. Cotton-picker machine. 1,755,507; Apr. 22.
Janes, Ralph E., Dallas, Tex. Pipe-painting machine. 1,755,377; Apr. 22.
Jenner, James, assignor of one-half to K. Schumacher, Los Angeles, Calif. Ceiling vent. 1,755,784; Apr. 22.
Jensen, Henry E. (See Vilneau, W. W., and Chittenden, assignors.)
Jensen, Nels, Grass Valley, Calif. Sunshade. 1,755,736; Apr. 22.
Jerram, Arthur E., Oadby, England. Power-driven lawn mower. 1,755,958; Apr. 22.
Jertberg, Paul E., Glendale, Calif. Automatic tank siphon. 1,755,218; Apr. 22.
Johnson, A. J., & Sons Furniture Co. (See Olsen, Carl M., assignor.)
Johnson Brothers Engineering Corporation. (See Johnson, Harry L., assignor.)
Johnson, Harry C. (See Bast, D. D., and Johnson.)
Johnson, Harry L., assignor to Johnson Brothers Engineering Corporation, Waukegan, Ill. Internal-combustion engine. 1,755,260; Apr. 22.
Johnson, George T., State Sanatorium, Md. Sunshade for automobiles. 1,755,991; Apr. 22.
Johnsson, Emil T., Chicago, Ill. Temperature-controlling apparatus. Re17,646; Apr. 22.
Johnston, Edward A., D. B. Baker, and C. R. Hagen, assignors to International Harvester Company, Chicago, Ill. Cotton picker. 1,755,325; Apr. 22.
Jones, Abraham L., Logansport, Ind. Disappearing bed. Re17,647; Apr. 22.
Jones, Ernest B. (See Clark, G. J. J., and Jones.)
Jones, Ira M., et al. (See Stevens, Arthur C., assignor.)
Jones & Laughlin Steel Corporation. (See Kurkowski, Joseph, assignor.)
Jones, W. Bartlett, Chicago, Ill. Cyclic current control. 1,755,479; Apr. 22.
Jordan, Robert E., assignor to The Allbright-Nell Company, Chicago, Ill. Continuous smoking, curing, and treating apparatus. 1,755,878; Apr. 22.
Jordan, Robert E., Baltimore, Md., assignor to The Allbright-Nell Company, Chicago, Ill. Meat-curing method. 1,755,992; Apr. 22.
Jordell, Johannes O., Oslo, Norway. Ski fastening. 1,756,398; Apr. 22.
Kalischer, Georg, and H. Scheyer, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Condensation product of the benzanthrone series and making same. 1,755,879; Apr. 22.
Kass, Samuel M., Philadelphia, Pa. Protective support for use with gas stoves. 1,756,603; Apr. 22.
Kattwinkel, Hans, Coswig, Germany. Manufacture of friction bodies. 1,755,355; Apr. 22.
Keagle, Raymond H. and S. E., Minneapolis, Minn. Combined muffler and air heater. 1,755,924; Apr. 22.
Keagle, Stanley E. (See Keagle, Raymond H. and S. E.)
Keil, Gustav B. (See Upton, L. C., and Keil.)
Keil, Henry F., Scarsdale, N. Y. Construction for display cases and the like. 1,755,880; Apr. 22.
Keller, Arnold B., et al., trustees. (See Graham, William S., assignor.)
Kelly, Edward G., and C. E. Zirkle, Greenville, assignors of one-half to W. C. Groeniger, Columbus, Ohio. Water-supply system. 1,755,993; Apr. 22.
Kendig, Julian H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch mechanism. Re17,650; Apr. 22.
Keppler, Albert E., Philadelphia, Pa., assignor to Brown & Bailey Company. Packing and display box. 1,755,693; Apr. 22.
Keppler, Albert E., Philadelphia, Pa., assignor to Brown & Bailey Company. Packing and display box. 1,755,694; Apr. 22.
Kerr, William E., Des Moines, Iowa. Laundry appliance. 1,755,508; Apr. 22.
Kesselring, Fritz, Furth, Germany. Lamp shade. 1,755,737; Apr. 22.
Kilbride, John J., Scotch Plains, N. J. Window-cleaning device. 1,755,881; Apr. 22.
King, Bert W., assignor to Barnes Scale Company, Detroit, Mich. Scale. Des. 81,009; Apr. 22.
Kingsbury, Harry T., Keene, N. H. Hand garden fork. 1,755,651; Apr. 22.
Kinney, James A., Lebanon, Pa., assignor to Bethlehem Steel Company. Nut-forging machine. 1,755,325; Apr. 22.
Kinsley, James P., assignor of one-half to L. E. Agnew, jr., Kirkwood, Mo. Combination rake and snow shovel. 1,755,652; Apr. 22.
Kirk, Benjamin K., Philadelphia, Pa. Locomotive frame. 1,755,925; Apr. 22.
Klagges, Elsie, Glendale, N. Y. Pencil. 1,755,326; Apr. 22.
Klein, Eugen, Dresden, Germany. Appliance for automatically regulating the entrance of fabrics or webs into lapping machines. 1,755,826; Apr. 22.
Klein, Mathias, and Sons. (See Davis, C. H., and Lueck, assignors.)
Klepadlo, Kostantx, and A. Gratkowski, Scranton, Pa. Beam-handling apparatus for coal-mining and other operations. 1,755,733; Apr. 22.
Klima, Rudolf, and H. Reischenbacher, Salzburg, Austria. Steam-operated ice and snow plow. 1,755,695; Apr. 22.
Kline, Fred J., Bayville, N. Y. Binder. 1,755,604; Apr. 22.
Kline, Harmon J., Detroit, Mich. Hydraulic clutch transmission. 1,755,182; Apr. 22.
Kluge, Kurt, and W. Berthold, Berlin-Halensee, Germany. Perpetual date indicator. 1,755,696; Apr. 22.
Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,755,959; Apr. 22.
Kneifl, Johann, Mahr. Schonberg, Czechoslovakia. Producing artificial marble. 1,755,399; Apr. 22.
Knight, Ralph F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Wood-heel-making machine. 1,755,400; Apr. 22.
Knox, Jean H., assignor of one-half to Associated Factories Corporation, Dallas, Tex. Expansion joint in concrete pavements. 1,755,219; Apr. 22.
Knox, Robert, Toronto, Ontario, Canada. Glove drier. 1,755,605; Apr. 22.
Koehl, John W., C. Palkowski, and S. Wagner, Los Angeles, Calif. Automatic boring machine. 1,755,401; Apr. 22.
Koehne, Jack W. L., Chicago, Ill. Photographic camera. 1,755,220; Apr. 22.
Koehring Company. (See Koehring, Philip A., assignor.)
Koehring, Philip A., assignor to Koehring Company, Milwaukee, Wis. Combined concrete-mixer truck body and frame. Des. 81,010; Apr. 22.
Koehring, Philip A., assignor to Koehring Company, Milwaukee, Wis. Subgrade preparing, concrete distributing, and finishing machine. 1,755,653; Apr. 22.
Kohler, Clifford J., Wauwatosa, Wis. Concrete-form holder. 1,755,960; Apr. 22.
Koppers Company, The. (See Becker, Joseph, assignor.)
Koppers Company, The. (See Seil, Gilbert E., assignor.)
Kops Bros. Inc. (See Kops, Waldemar, assignor.)
Kops, Waldemar, assignor to Kops Bros. Inc., New York, N. Y. Apparel garment. 1,755,827; Apr. 22.
Kositzky, James C., now by judicial change of name J. C. Coe, Stillwater, Okla. System of modulation. 1,755,739; Apr. 22.
Kottke, Rudolph A., Detroit, Mich. Holder for pans and covers. 1,755,954; Apr. 22.
Kramer, Andrew A., Kansas City, Mo. Road parting strip. 1,755,480; Apr. 22.
Krause, Frank R., and R. C. Stiefel, Ellwood City, Pa. Plate catcher. 1,755,856; Apr. 22.
Kreba, Adolph, Jamaica Plain, Mass. Welding torch. 1,755,882; Apr. 22.
Kurkowski, Joseph, Carrick, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Hot punching and shearing machine. 1,755,994; Apr. 22.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,755,183; Apr. 22.
Kurtz, Daniel W. B., jr., Columbia, Mo. Record or index card. 1,755,961; Apr. 22.
Labrie, Anthony, Haverhill, Mass. Clamping member for sole-rounding machines. 1,755,606; Apr. 22.
Lacey, Paul H., Chicago, Ill. Outlet for baseboard raceways. 1,755,545; Apr. 22.

Lamb, William A., Chicago, Ill. Registering device. 1,755,995; Apr. 22.
Landis Tool Company. (See Steiner, Amos P., assignor.)
Lane, Willis A. (See Grearson, F. A., and Lane.)
Langenfeld, Herman H., Marling, Iowa. Vending machine. 1,755,655; Apr. 22.
Lansing, Raymond P., Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,755,327; Apr. 22.
Laplerre, Lucien. (See Michaud, C. E., and Laplerre.)
Laroche, Philemon, Lawrence, Mass. Display device. 1,755,607; Apr. 22.
Laudel, Eric, Bronx, assignor to Art Metal Spinning Co., New York, N. Y. Lamp or similar article. Des. 81,011; Apr. 22.
Lavarack, Frederick C., Montclair, N. J., assignor to Great Western Fuse Company, Pittsburgh, Pa. Renewable fuse. 1,755,546; Apr. 22.
Lawlor, James, et al. (See Dwelle, Walter K., assignor.)
Leavitt, Harry N., Springfield, Mo. Water-heating apparatus. 1,755,261; Apr. 22.
Lee, James E., assignor to The Challenge Machinery Company, Grand Haven, Mich. Printer's galley. 1,755,262; Apr. 22.
Lee, Ralph L., assignee to Delco-Light Company, Dayton, Ohio. Domestic appliance. 1,755,481; Apr. 22.
Leedy Manufacturing Company. (See Strupe, Cecil H., assignor.)
Leguillon, Charles W., and J. R. Gammeter, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Apparatus for applying marginal stripe to articles. 1,755,926; Apr. 22.
Leiter, Winifred De P. (See Foulke, Roy D., assignor.)
Lemmerman, Edward D., Cleveland, Ohio. Sectional casing. 1,755,608; Apr. 22.
Lemos, Manuel, Caldwell, N. J. Automatic slicing machine. 1,755,883; Apr. 22.
Lenz, Wilhelm, Biebrich-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing dihydroxyacetone. 1,755,656; Apr. 22.
Lesscsewics, Frank, Chicago, Ill. Furnace device for enhancing combustion of fuel. 1,755,697; Apr. 22.
Leuchs, Otto, Elberfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Caustic-soda solution of cellulose. 1,755,657; Apr. 22.
Leuchter, Richard L., Weidlingau-Hadersdorf, assignor to Gebrüder Hardy Maschinenfabrik und Giesserei A. G., Vienna, Austria. Release valve for single-chamber air-pressure brakes. 1,755,962; Apr. 22.
Levi, Bruno D., New York, N. Y. Pencil and sharpener. 1,755,509; Apr. 22.
Levinsohn, Louis N., New York, N. Y. Merchandise package and display rack therefor. 1,755,927; Apr. 22.
Lewis Differential Company. (See Tatter, John W., assignor.)
Lewis, William T. (See Bells, Milton M., assignor.)
Libbey-Owens Glass Company. (See Rowley, Clifford A., assignor.)
Lievre, Joe B., San Antonio, Tex. Safety aeroplane control stick. 1,755,928; Apr. 22.
Lighting Appliance Company. (See Roettges, Frederick W., assignor.)
Lima, Henry C., Stamford, Conn., assignor, by mesne assignments, to Atia Sales Corporation, New York, N. Y. Refuse collector. 1,755,547; Apr. 22.
Linden, Arvid I., Brooklyn, N. Y. Steering device. 1,755,299; Apr. 22.
Lindley, Adelbert H. et al., executors. (See Chace, William M.)
Linn, Frank F., and J. Negles, North Bend, Oreg., assignors of part interest to C. L. Shuppy, T. N. Campbell, and J. Ross, Oakland, Calif. Reversible rear-view reflector. 1,755,740; Apr. 22.
Linney, Albert T., Lexington, Ky. Toy. Des. 81,012; Apr. 22.
Lion Brothers Company. (See Marsak, Joseph S., assignor.)
Lipper, Clarence, Philadelphia, Pa. Braid. Des. 81,013; Apr. 22.
Lipper, Clarence, Philadelphia, Pa. Braid. Des. 81,014; Apr. 22.
Lipson, Edward, Chelsea, Mass. Testing vacuum tubes. 1,755,609; Apr. 22.
Liquid Carbonic Corporation, The. (See De Stefani, Tully, assignor.)
Lish, Charles M., Valparaiso, Ind. Highway railroad crossing. 1,755,698; Apr. 22.
Litselberger, Karl, Hollis, N. Y. Permutation lock. 1,755,996; Apr. 22.
Lloyd, W. H. S., Co. (See Haward, Eric A., assignor.)
Locke, Sylvanus D., Bridgeport, Conn. Ash tray and receiver. 1,755,741; Apr. 22.
Loehr, Alexander L., Milwaukee, assignor of one-third to H. F. Stock, Waukesha, Wis. Dispensing machine. 1,755,699; Apr. 22.
Lomax, Frank B., Chicago, Ill. Filter. 1,755,482; Apr. 22.
Lopes, Octavio E. M., Caibarien, Cuba. Reraiting device. 1,755,510; Apr. 22.
Lordly, Leonard C., Elmhurst, N. Y. Textile paint. 1,755,658; Apr. 22.
Loughead, Malcolm, assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 1,755,329; Apr. 22.
Loughead, Malcolm, assignor to Hydraulic Brake Company, Detroit, Mich. Brake. 1,755,330; Apr. 22.
Loughridge, Matthew H., trustee. (See Loughridge, M. H., and Holliday, assignors.)
Loughridge, Matthew H., Bogota, N. J., and J. S. Holliday, deceased, New York, N. Y.; J. M. Holliday, administratrix, assignor to M. H. Loughridge, trustee, Bogota, N. J. Train-control and cab signal system. 1,755,447; Apr. 22.
Low, Theodore H. (See Tanner, Arnold J., assignor.)
Lowd, Harry D., Nashua, N. H. Card-counting machine. 1,755,884; Apr. 22.
Lowe, Joseph N., New York, N. Y. Hand bag. 1,755,548; Apr. 22.
Lueck, Henry W. (See Davis, C. H., and Lueck.)
Lukens, Alan R. (See Glidden, A. A., and Lukens.)
Lundahl, Fred A., Moline, Ill. Vehicle toy. 1,755,483; Apr. 22.
Lupes, Stephen, New York, N. Y. Device for permanent hair waves. 1,755,221; Apr. 22.
Lytle, William O. (See Sherts, J. H., and Lytle.)
Mackin, Henry J., Chicago, Ill. Venetian blind. 1,755,448; Apr. 22.
MacNabb, Keith C., assignor to Findlay Bros Co., Limited, Carleton Place, Ontario, Canada. Electric heating element. 1,755,929; Apr. 22.
Magee, James M., et al. (See Palmer, John V., assignor.)
Magee, John, Detroit, Mich. Piston ring. 1,755,402; Apr. 22.
Male, René, Arcueil, France. Dough-molding machine. 1,755,963; Apr. 22.
Malkin, Joseph D., et al. (See Freydberg, A., and Marcus, assignors.)
Manley Manufacturing Company. (See Manley, Robert E., assignor.)
Manley, Robert E., assignor to Manley Manufacturing Company, York, Pa. Hydraulic press. 1,755,403; Apr. 22.
Mantle Lamp Company of America, The. (See Rohl, Erich H., assignor.)
Marchant, Guy O., et al. (See Walker, Jay P., assignor.)
Marcus, Jacob. (See Freydberg, A., and Marcus.)
Marcus, Samuel, Brooklyn, assignor, by mesne assignments, to Markon Manufacturing Co. Inc., New York, N. Y. Eye set. 1,755,331; Apr. 22.
Marder, John W., Rochester, N. Y. Cost-accounting machine. 1,755,449; Apr. 22.
Marion Steam Shovel Company, The. (See Ferguson, Berlin S., assignor.)
Mark, Le Roy, Washington, D. C. Speech amplifying and reproducing system. 1,755,484; Apr. 22.
Markon Manufacturing Co. Inc. (See Marcus, Samuel, assignor.)
Marks, Sidney, assignor of one-half to W. W. Ward, New York, N. Y. Emergency wheel for automobiles. 1,756,006; Apr. 22.
Marple, Rollo, assignor to Hancock Mfg. Co., Charlotte, Mich. Door latch. 1,755,832; Apr. 22.
Marple, Rollo, Charlotte, assignor to Hancock Manufacturing Co., Jackson, Mich. Latch-operating handle for automobile doors. 1,755,833; Apr. 22.
Marr, Arthur P. (See Marr, George M., and A. P.)
Marr, George M., Woodhaven, and A. P. Marr, Forest Hills, N. Y. Smoke detector. 1,755,834; Apr. 22.
Marshall-Wells Company. (See Hokanson, Martin, assignor.)
Martin, Scott O., et al. (See Martin, S. O., and Bridenbaugh, assignors.)
Martin, Scott O., and E. H. Bridenbaugh, assignors of one-half to A. M. Nassif, Denver, Colo., and one-half to said S. O. Martin. Ditching plow. 1,755,885; Apr. 22.
Martinet, Eugene F., assignor to The Dual Speedometer Company, Cleveland, Ohio. Speed-indicating device. 1,755,184; Apr. 22.
Martinet, Eugene F., assignor to The Dual Speedometer Company, Cleveland, Ohio. Speed-indicating control means. 1,755,185; Apr. 22.
Martinsen, Leonard C., Kimballton, Iowa. Transmission. 1,755,186; Apr. 22.
Marsak, Joseph S., assignors to Lion Brothers Company, Inc., Baltimore, Md. Hat. 1,755,300; Apr. 22.
Maschinenfabrik Augsburg-Nernberg A. G. (See Duwe, Friedrich, assignor.)
Massu, Paul J. (See Buraux, R. L. G., and Massu.)
Masury, Alfred F., New York, N. Y., assignor, by mesne assignments, to The Rubber Shock Insulator Corporation, Wilmington, Del. Cushioning device for marine propulsion. 1,755,549; Apr. 22.
Mattenklott, Friedrich, Berlin, Germany. Map finder. 1,755,742; Apr. 22.
Mayer, Frederick H., Los Angeles, Calif. Suspension disconnecting switch and mounting therefor. 1,755,328; Apr. 22.
Mayer's Movable Merchandiser. (See Voss, Hugo H., assignor.)
Mayers, Wilbur S., Fairmont, W. Va., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Apparatus for handling glassware. 1,755,404; Apr. 22.
McCann, Ronald A., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,755,357; Apr. 22.
McCord, Alvin C., Chicago, Ill. Luggage unloader for railway cars. 1,755,785; Apr. 22.
McCormack, Lawrence R., Seattle, Wash. Pneumatic gun for applying mortar. 1,755,329; Apr. 22.
McCullough, William E., assignor to Simmons Company, Kenosha, Wis. Knob. 1,755,301; Apr. 22.

McKenzie, Joseph F., Abilene, Tex. Aeroplane wing. 1,755,886; Apr. 22.
McKnight, William. (See Holiday, H., McKnight, and Christfield.)
McLain, Harry E. (See Broad, William, assignor.)
McNutt, Joseph D., assignor, by mesne assignments, to Winchester Repeating Arms Co., New Haven, Conn. Priming mixture. 1,755,330; Apr. 22.
Mees, Frank S., Lynn, assignor to North American Chemical Company, Boston, Mass. Outlining McKay shoes. 1,755,550; Apr. 22.
Meints, Harry. (See Van Epps, Glen K., assignor.)
Meitner, Elemer. (See Sperry, E. A., and Meitner.)
Mendel, William, Beverly, assignor to Sanite Corporation, Burlington, N. J. Making tubes of celluloid and the like. 1,755,786; Apr. 22.
Mergott, J. E., Co. (See Hiering, William C., assignor.)
Merrill, Ralph K., Grand Rapids, and F. J. Blakslee, Wyoming Township, Kent County, assignors to American Seating Company, Grand Rapids, Mich. Seat structure. 1,755,997; Apr. 22.
Metropolitan Lamp Co. Inc. (See Felek, Julius, assignor.)
Meyer, Andre J., assignor to Continental Motors Corporation, Detroit, Mich. Internal-combustion engine. 1,755,998; Apr. 22.
Meyer, Frans, assignor to the firm Carl Zeiss, Jena, Germany. Holder with feeding arrangement for the positive electrode of a searchlight. 1,755,551; Apr. 22.
Michallovsky, Nicholas M., Bronx, assignor of thirty-seven and one-half per cent to P. N. Ritter, Long Island, and twenty-five per cent to H. W. Boettger, New York, N. Y. Driving unit for speakers. 1,755,552; Apr. 22.
Michaud, Charles E., and L. Lapierre, Hull, Quebec, Canada. Tire-rim-mounting means. 1,755,999; Apr. 22.
Middleton, Washington L., Watertown, assignor to Simplex Wire and Cable Company, Boston, Mass. Power cable. 1,755,930; Apr. 22.
Mid-West Bottle Cap Co. (See Stohr, Phillip L., assignor.)
Mijer, Pieter, New York, N. Y., L. C. Scott, Brooklyn, N. Y., and G. S. Radford, New Canaan, Conn., assignors, by mesne assignments, to Two-Tone Corporation, New York, N. Y. Apparatus for dyeing, coloring, and coating. 1,755,302; Apr. 22.
Miller, Eseck C., Newark, N. J. Machine for making annular pieces of candy. 1,755,263; Apr. 22.
Miller, Frank A., Aurora, Ill. Power shears. 1,755,511; Apr. 22.
Miller, John M., Philadelphia, Pa. Pieso-electric oscillation generator. 1,756,000; Apr. 22.
Milwaukee Corrugating Company. (See Schmieder, Robert S., assignor.)
Milwaukee Power Lawn Mower Company. (See Slonneger, John C., assignor.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Miner, W. H., Inc. (See Miner, William H., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Miner, William H., Chasy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,755,405; Apr. 22.
Minnick, Howard B., Chicago, Ill. Mounting for advertising plaques. 1,755,222; Apr. 22.
Mirzan, Richard A., assignor to American Bolt Anchor Corporation, Syracuse, N. Y. Anchoring bolts. 1,755,264; Apr. 22.
Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)
Mojonnier, Julius J., Oak Park, Ill., assignor to Mojonnier Bros. Co. Conveyer and driving motor construction. 1,755,450; Apr. 22.
Molins, Walter E., Deptford, London, England. Packing machinery. 1,755,659; Apr. 22.
Monarch Tool & Machinery Co. (See Clark, Willard F., assignor.)
Monk, Reginald H., assignor of one-half to J. Irwin, Montreal, Quebec, Canada. Production of amphoteric hydrated oxides of metals by hydrolysis. 1,755,512; Apr. 22.
Monsanto Chemical Works. (See Conover, Courtney, assignor.)
Monteith, William F., Salmon Arm, British Columbia, Canada. Wire fastener. 1,755,553; Apr. 22.
Monteney, Ward, Castle Rock, Wash. Wrench. 1,755,358; Apr. 22.
Moore, George C., Company. (See Moore, Thomas F., assignor.)
Moore, Giles S., Indianapolis, and O. Moore, Frankfort, Ind. Sliding trolley. 1,755,303; Apr. 22.
Moore, Otto. (See Moore, Giles S. and O.)
Moore, Thomas F., assignor to George C. Moore Company, Westerly, R. I. Elastic woven fabric. 1,755,787; Apr. 22.
Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Combined coal mining and loading machine. 1,755,331; Apr. 22.
Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading apparatus. 1,755,332; Apr. 22.
Morgan, Edmund C., deceased; O. E. Morgan, executrix, New York, N. Y. Kerf cutter for mining apparatus. 1,755,700; Apr. 22.
Morgan, Olive E., executrix. (See Morgan, Edmund C.)
Morris, George D., assignor to New Castle Refractories Company, New Castle, Pa. Tunnel-kiln car. 1,755,701; Apr. 22.
Morris, Thomas E., Longmeadow, Mass. Automatic temperature-relief valve. 1,755,964; Apr. 22.
Morrison, Andrew M., Dubuque, Iowa. Concentrated control unit. 1,755,451; Apr. 22.
Morrison, Edgar H., Virginia Beach, Va. Phonograph disk record. 1,755,743; Apr. 22.
Morrow, E. Luster A., Sunnyside, Wash. Assorting-table deflecting means. 1,755,660; Apr. 22.
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Frank L. (See Morse, Robert V., assignor.)
Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Power-transmission chain. 1,755,887; Apr. 22.
Morse, Robert V., assignor to F. L. Morse, Ithaca, N. Y. Garage-door opener. 1,755,788; Apr. 22.
Moses, Herbert B., Washington, D. C. Reserve and conservation of infatants. 1,755,859; Apr. 22.
Mott, Chester, Denver, Colo., assignor, by mesne assignments, to Union Carbide and Carbon Research Laboratories, Inc. Machine for cutting irregular shapes. 1,755,789; Apr. 22.
Motti, César, Alpes-Maritime, France. Camera. 1,755,452; Apr. 22.
Moyse, William H., Oshawa, Ontario, Canada, assignor to General Motors Research Corporation, Detroit, Mich. Crank-case ventilation. 1,756,001; Apr. 22.
Mudge, William A., Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, New York, N. Y. Heat-treated nickel-copper-aluminum alloy and method of heat treating the same. 1,755,554; Apr. 22.
Mudge, William A., Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y. Manufactures of alloys of copper, nickel, and aluminum. 1,755,555; Apr. 22.
Mudge, William A., Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y. Heat-treated copper-nickel-aluminum alloy. 1,755,556; Apr. 22.
Mudge, William A., Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y. Copper-nickel-aluminum alloy and method of heat treating the same. 1,755,557; Apr. 22.
Mueller, Herman C., Milwaukee, Wis. Sound-amplifying horn. 1,755,931; Apr. 22.
Mueller, William G., assignor to Gardner-Denver Company, Denver, Colo. Work guard. 1,755,265; Apr. 22.
Mullen, Charles P., Conshohocken, Pa. Eaves-trough hanger. 1,755,453; Apr. 22.
Munktell, Ernst O., Stockholm, Sweden. Goffered article. 1,755,744; Apr. 22.
Murphy, Thomas L., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve mechanism for rock drills. 1,755,702; Apr. 22.
Murray, John F., et al, executors. (See Murray, Thomas E.)
Murray, Joseph B., et al., executors. (See Murray, Thomas E.)
Murray, Thomas E., deceased, Brooklyn, N. Y.; J. B., T. E., jr., and J. F. Murray, executors. Boiler and the like. 1,755,888; Apr. 22.
Murray, Thomas E., jr., et al., executors. (See Murray, Thomas E.)
Murrill, Paul I., Plainfield, N. J., and W. W. Evans, New Rochelle, assignors to R. T. Vanderbilt Co., Inc., New York, N. Y. Treatment of rubber. 1,755,703; Apr. 22.
Musik, Victor V., Chicago, Ill. Aeroplane-control mechanism. 1,755,869; Apr. 22.
Myers, Warren M., Saginaw, Mich. Vacuum container. 1,755,338; Apr. 22.
Naamloose Vennootschap Kromhout Motoren Fabriek D. Goedkoop Jr., et al. (See Brons, Jan, assignor.)
Nachman, Fred A. (See Suekoff, Louis A., assignor.)
Nagy, Louis, assignor of one-half to S. F. Halach, Detroit, Mich. Automatic sanitary sugar bowl. 1,756,002; Apr. 22.
Nash, Benjamin S., Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio. Textile fabric. Des. 81,015; Apr. 22.
Nash, Benjamin S., Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio. Ticking fabric. Des. 81,016; Apr. 22.
Nassif, A. M., et al. (See Martin, S. O., and Bridenbaugh, assignors.)
National Cash Register Company, The. (See Carroll, Thomas, assignor.)
National Cash Register Company, The. (See Goldberg, Maxmilian M., assignor.)
National Engineering Company. (See Christensen, Alfred C., assignor.)
National Fireworks, Inc. (See Clark, G. J. J., and Jones, assignors.)
National Pad and Binding Company. (See Freyberg, A., and Marcus.)
National Paper Box Co. (See Newton, E. H., and Green, assignors.)
National Rubber Machinery Company. (See De Mattia, Peter, assignor.)
National Rubber Machinery Company. (See Schnedarek, Emil, assignor.)
Neaman, Harry I., et al. (See Palmer, John V., assignor.)
Negles, Joseph. (See Linn, F. F., and Negles.)
Nelson, Adolph L., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Clamp. 1,755,454; Apr. 22.
Nelson, Bert J., assignor to White Showers, Inc., Detroit, Mich. Automatic turning device for sprinkling systems. 1,755,455; Apr. 22.

Nelson, Crescent F., New Dorp, assignor to The Western Union Telegraph Company, New York, N. Y. Multichannel telegraph cable system. 1,755,485; Apr. 22.
Neon, Claude, Lights, Inc. (See Smalley, Robert C., assignor.)
Nevel, Elmer R., Lock Haven, Pa. Hot-air-furnace attachment. 1,755,790; Apr. 22.
Newark Gear Cutting Machine Company. (See Eberhardt, Ulrich S., assignor.)
New Castle Refractories Company. (See Morris, George D., assignor.)
New Haven Clock Co., The. (See Porter, Wilson E., assignor.)
Newton, Edwin H., and F. Green, assignors to National Paper Box Co., Kansas City, Mo. Tubular-box former. 1,755,513; Apr. 22.
Nineteen Hundred Corporation. (See Cole, Clifford E., assignor.)
Nineteen Hundred Corporation. (See Upton, L. C., and Keil, assignors.)
Nordstrom, Sven J., Oakland, Calif. Valve. 1,755,406; Apr. 22.
Norris, Almon E., Brookline, Mass. Capstan. 1,755,187; Apr. 22.
North American Chemical Company. (See Mees, Frank S., assignor.)
North, Arthur O., Niagara Falls, N. Y. Wrench. 1,756,003; Apr. 22.
Nutt, Harry G., Altadena, and S. C. Bartholomew, assignors to Scheu Manufacturing Company, Uplands, Calif. Apparatus for marking fruit and similar articles. 1,755,456; Apr. 22.
Nystrom, Karl F., Chicago, Ill. Car-window construction. 1,755,223; Apr. 22.
O'Connell, Thomas J., San Francisco, Calif. File. 1,755,407; Apr. 22.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Brake. 1,755,408; Apr. 22.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,755,409; Apr. 22.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Car construction. 1,755,410; Apr. 22.
Odell, Ross E., Bakersfield, Calif. Wrench. 1,755,486; Apr. 22.
O'Donnell, R. J. (See Royer, Enos S., assignor.)
O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Thermostatically-operated fuel-controlling device. 1,755,188; Apr. 22.
Oehler, George. (See Twiford, W. R., and Oehler.)
O'Hare, John S., Bethune, Colo. Screed support. 1,755,457; Apr. 22.
O'Harra, Berry M. (See Perkins, M. F., Hanson, and O'Harra.)
Ohio Brass Company, The. (See Bovard, William P., assignor.)
Ohio Brass Company, The. (See Goodyear, Robert, assignor.)
Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Tuned radio frequency amplifier. 1,755,266; Apr. 22.
Ohm, Ludwig. (See Ahmels, K., and Ohm.)
Oleszko, John, Detroit, Mich. Floor drain and automatic flood protector. 1,755,458; Apr. 22.
Olmsted, Roger W., assignor to Foster & Kleiser Company, San Francisco, Calif. Sectional signboard. 1,755,360; Apr. 22.
Olsen, Carl M., assignor to A. J. Johnson & Sons Furniture Co., Chicago, Ill. Cabinet for radio receiving sets. Des. 81,017; Apr. 22.
Olsen, John C., assignor to Flexible Steel Lacing Company, Chicago, Ill. Fastener for belts and the like. 1,755,304; Apr. 22.
Omey, John W., assignor to Packard Motor Car Company, Detroit, Mich. Lapping and grinding device. 1,755,965; Apr. 22.
O'Neill, Joseph A., New York, N. Y. Blade holder. 1,755,791; Apr. 22.
Operadio Manufacturing Co. (See Stone, John McW., assignor.)
Osborn, Alden E., New York, N. Y. Automatic slack adjuster. 1,755,305; Apr. 22.
Ostermayer, Walter, Berlin-Schoneberg, Germany. Control device for electric illuminated signs. 1,755,267; Apr. 22.
Owens Development Corporation. (See Owens, Freeman H., assignor.)
Owens, Freeman H., assignor to Owens Development Corporation, New York, N. Y. Optical printer. 1,755,487; Apr. 22.
Owens, Jesse C., Los Angeles, Calif. Flushing valve. 1,755,558; Apr. 22.
Ozouf, Arthur E., assignor to The Allbright-Nell Company, Chicago, Ill. Meat-curing apparatus. 1,755,966; Apr. 22.
Packard Motor Car Company. (See Knapp, Archer L., assignor.)
Packard Motor Car Company. (See Omey, John W., assignor.)
Packard Motor Car Company. (See Roberts, Edward F., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Pacent Electric Company. (See Parker, Oliver B., assignor.)
Pagani, Antonio, Chiari, Italy. Copying machine. 1,755,967; Apr. 22.
Palkowski, Carl. (See Koehl, J. W., Palkowski, and Wagner.)
Palmer, John V., assignor of one-third to H. I. Neaman and one-third to J. M. Magee, Pittsburgh, Pa. Rail coupling. 1,755,224; Apr. 22.
Palmer, Walter, Chester, Pa., assignor to Amdyco Corporation, New York, N. Y. Foam generator. 1,755,610; Apr. 22.
Paquin, Max. (See Schlosser, F., and Paquin.)
Paramount Textile Machinery Co. (See Prosser, Thomas W., assignor.)
Parisot, Gunther, Stockholm, Sweden. Air-drying mechanism for garment presses. 1,755,488; Apr. 22.
Parker, Donald, Fresno, Calif. Air heater. 1,755,268; Apr. 22.
Parker, Oliver B., assignor to Pacent Electric Company, Inc., New York, N. Y. Phonograph pick-up. 1,756,012; Apr. 22.
Parker Rust-Proof Company. (See Green, M., and Darsey, assignors.)
Parr, John W., Magma, Ariz. Weight equalizer for dispensing gasoline, oil, etc., from storage drums. 1,755,745; Apr. 22.
Partlow, Howard W., Utica, N. Y. Actuator for fire extinguishers. 1,755,835; Apr. 22.
Paterson, Herbert, Long Beach, Calif. Deep-well pump. 1,755,661; Apr. 22.
Paxton, Hale, Sanger, Calif. Compensating device for nail-driving mechanism. 1,755,225; Apr. 22.
Peale, Rembrandt, et al., trustees. (See Davis, Kenneth, assignor.)
Pearce, William L. (See Church, Walter L., assignor.)
Pearson, Gustav C., assignor to Gardner-Denver Company, Denver, Colo. Tool holder. 1,755,269; Apr. 22.
Peele, Hereward J. (See Blackburn, J., and Peele.)
Peller, Karl E., West Hartford, assignor to Hartford-Conn. Feeding molten glass. 1,755,792; Apr. 22.
Peirce, William H., Baltimore, Md., assignor to American Smelting & Refining Company, New York, N. Y. Ladle. 1,755,411; Apr. 22.
Pendergrass, James A., Franklin Furnace, Ohio. Aircraft pontoon. 1,755,932; Apr. 22.
Penn National Bank and Trust Company, The, executor. (See Prints, Daniel F.)
Perkins, Melville F., Tacoma, Wash., and C. W. Hanson, Perth Amboy, and B. M. O'Harra, Westfield, N. J., assignors to American Smelting and Refining Company, New York, N. Y. Treating mixtures of oxy salts of arsenic, antimony, and tin. 1,756,007; Apr. 22.
Perrera, Altitolo, Paris, France. Pocket lighter. 1,755,746; Apr. 22.
Persons, Lawrence M., assignor to Cook Electric Comany, Chicago, Ill. Pump. 1,755,611; Apr. 22.
Peters, John F., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Surge recorder. 1,755,793; Apr. 22.
Petersen, Alfred E., Ridgefield Park, N. J., assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding mechanism. 1,755,662; Apr. 22.
Petrillo, Nicola C., St. Louis, Mo. Globe or shade holder. 1,755,836; Apr. 22.
Petrillo, Nicola C., St. Louis, Mo. Globe or shade holder. 1,755,837; Apr. 22.
Pfeiffer, Fred B., Akron, assignor to Seiberling Rubber Company, Barberton, Ohio. Machine for folding tire bands. 1,755,933; Apr. 22.
Pfeil, Roy C. (See Bloss, R. R., and Pfeil.)
Pfüger, Albert, and K. Haage, Esslingen-on-the-Neckar, Germany. Mechanical hammer. 1,755,361; Apr. 22.
Phillips, John H., Chicago, Ill. Self-drilling expansion shell. 1,755,489; Apr. 22.
Pilcher, John V. (See Babbitt, John F., assignor.)
Pittsburgh Equitable Meter Company. (See Weymouth, Harry G., assignor.)
Pizzala, Martin C., et al. (See Soprani, Paul, assignor.)
Pletsch, Carl, Bad-Nauheim, Germany. Galvanizing. 1,755,559; Apr. 22.
Poetzinger, William S., assignor to Reo Motor Car Company, Lansing, Mich. Truing valve forgings and the like. 1,755,663; Apr. 22.
Polysius, G. (See Goebels, Paul, assignor.)
Porter, Wilson E., assignor to The New Haven Clock Co., New Haven, Conn. Electric clock. 1,755,560; Apr. 22.
Pratt, William B., Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del. Aqueous rubber emulsion and producing the same. 1,755,890; Apr. 22.
Pratt, William B., Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del. Dispersing coagulated bodies. 1,755,891; Apr. 22.
Pratt, William B., Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del. Production of aqueous rubber dispersions. 1,755,892; Apr. 22.
Prebensen, George, Chicago, Ill. Combination trouser creaser and shaper. 1,755,893; Apr. 22.
Precision Machine Co., The. (See Dina, Augusto, assignor.)
Prints, Daniel F., deceased, Reading, Pa.; The Penn National Bank and Trust Company, executor, assignor to Ephrata Manufacturing Company, Ephrata, Pa. Jointer attachment for portable sawing machines. 1,755,894; Apr. 22.

Prosperity Company Inc., The. (See Davis, Ernest, assignor.)
Prosser, Thomas W., Kankakee, Ill., assignor to Paramount Textile Machinery Co., Chicago, Ill. Drying apparatus. 1,755,334; Apr. 22.
Punge, Wilhelm, Ludwigshafen-on-the-Rhine, and M. Jahrstorfer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of valuable products from Montan wax. 1,755,189; Apr. 22.
Pupilla, Paul P., Bradley Beach, N. J. Sterilizer. 1,755,895; Apr. 22.
Putnam, Mark E., assignor to The Dow Chemical Company, Midland, Mich. Making sodium salicylates. 1,755,362; Apr. 22.
Quinan, George E. (See Shoup, G. R., and Quinan.)
Rabkin, William., New York, N. Y. Coin-slot guard. 1,755,270; Apr. 22.
Radford, George. Apponaug, assignor to Richmond Lace Work, Inc., Alton, R. I. Lace. Des. 81,018; Apr. 22.
Radford, George S. (See Mijer, P., Scott, and Radford.)
Radio Corporation of America. (See Ranger, Richard H., assignor.)
Radio Patents Corporation. (See Dubilier, William, assignor.)
Rainey, Clifton K., Knoxville, Tenn. Typewriter escapement mechanism. 1,755,514; Apr. 22.
Ramsden, John T., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,755,704; Apr. 22.
Ranger, Richard H., Brooklyn, N. Y. assignor to Radio Corporation of America. Correcting photographic copies for facsimile transmission. 1,755,561; Apr. 22.
Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,755,896; Apr. 22.
Rath, Curt, Berlin, Germany. Manufacture of a compound of isonaphthyridin. 1,755,515; Apr. 22.
Regal Musical Instrument Co. (See Hunter, Albert E., assignor.)
Reichert, William, Mamaroneck, N. Y. Bracelet or similar article. Des. 81,019; Apr. 22.
Reid, James E., Moorestown, N. J. Diagnostic optical instrument. 1,755,705; Apr. 22.
Reinhardt, Louis W., Brockton, assignor to George E. Belcher Company, Stoughton, Mass. Display form. 1,755,794; Apr. 22.
Reischenbacher, Hans. (See Klima, R., and Reischenbacher.)
Reiss, Winold, New York, N. Y. Pile fabric. Des. 81,042; Apr. 22.
Reliance Company, The. (See Wilms, Gustav O., assignor.)
Reo Motor Car Company. (See Poetzinger, William S., assignor.)
Republic Flow Meters Co. (See Cunningham, Arthur B., assignor.)
Resch, Henry, Bayonne, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,755,190; Apr. 22.
Revere Rubber Company. (See Christophersen, Herbert, assignor.)
Reyner, John H., Boreham Wood, and A. H. Curtis, Bedford, England. Electrical apparatus. 1,755,934; Apr. 22.
Reynolds, Edward P., Anaheim, Calif. Oil pump. 1,755,516; Apr. 22.
Reynolds, Lynus C., Sweetwater, Tenn. Index sheet and binding means therefor. 1,755,517; Apr. 22.
Reynolds Portable Furnace Co. (See Richardson, Wilbert L., assignor.)
Rhodes, Cooper B., Washington, D. C. Ice-cube tray. 1,755,795; Apr. 22.
Rice, William A., Jerseyville, Ill. Method of and apparatus for separating seeds. 1,755,747; Apr. 22.
Richards, Anna J. (See Richards, Ralph W., assignor.)
Richards, Ralph W., assignor to A. J. Richards, Atchison, Kans. Machine for plucking poultry. 1,755,665; Apr. 22.
Richardson, John H., Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for manufacturing articles from sheet material. 1,755,191; Apr. 22.
Richardson, Wilbert L., assignor to Reynolds Portable Furnace Co., Louisville, Ky. Hydrocarbon torch. 1,755,664; Apr. 22.
Richmond Lace Works, Inc. (See Radford, George, assignor.)
Richter, Elmer F., Park Ridge, assignor to Addressograph Company, Chicago, Ill. Printing device. 1,755,838; Apr. 22.
Riekert, Henry. (See Hager, W., and Riekert.)
Riker, Samuel M., Chester, N. J. Shoe buckle. Des. 81,020; Apr. 22.
Riker, Samuel M., Chester, N. J. Shoe buckle. 1,755,306; Apr. 22.
Ritter, Paul N., et al. (See Michailovsky, Nicholas M., assignor.)
Roberts, Edward F., assignor to Packard Motor Car Company, Detroit, Mich. Lock for motor vehicles. 1,755,935; Apr. 22.
Roberts, Edward M., Long Beach, Calif. Easel. 1,755,518; Apr. 22.
Robertshaw, Clarence W. and G. A., assignors to Robertshaw Thermostat Company, Youngwood, Pa. Valve. 1,755,562; Apr. 22.
Robertshaw, George A. (See Robertshaw, Clarence W. and G. A.)
Robertshaw Thermostat Company. (See Robertshaw, Clarence W. and G. A., assignors.)
Robichaux, Henry, Lafayette, La. Burner. 1,755,226; Apr. 22.
Robinson, George T., Daytona Beach, Fla. Map hanger. 1,755,897; Apr. 22.
Robinson, Lula H., Dallas, Tex. Shade and curtain support. 1,755,748; Apr. 22.
Robinson, William W., Chattanooga, Tenn. Collapsible poultry coop. 1,755,227; Apr. 22.
Rockola, David C., Chicago, Ill. Front panel of a game device. Des. 81,021; Apr. 22.
Rodier. (See Rodier, Paul, assignor.)
Rodier, Paul, assignor to Rodier, Paris, France. Manufacture of chenille fringes or other similar ornaments and products. 1,755,839; Apr. 22.
Roe, Harold, et al. (See Chase, Hamilton C., assignor.)
Roetges, Frederick W., Brooklyn, assignor to Lighting Appliance Company, Inc., New York, N. Y. Lighting fixture or article of similar nature. Des. 81,022; Apr. 22.
Roetges, Frederick W., Brooklyn, assignor to Lighting Appliance Company, Inc., New York, N. Y. Lighting fixture or article of similar nature. Des. 81,023; Apr. 22.
Rohl, Erich H., Chicago, Ill., assignor to The Mantle Lamp Company of America, Incorporated. Machine for making vacuum bottles and the like. 1,755,307; Apr. 22.
Roman, Max, New York, N. Y. Milk-container holder. 1,755,335; Apr. 22.
Romilly, Edgar P. (See Hartzler, M. E., and Romilly.)
Roorda, Abraham I., Leighton, Iowa. Vehicle tongue. 1,755,519; Apr. 22.
Root, Bertwell C., assignor to Brown Company, Berlin, N. H. Fiber conduit joint and making same. 1,755,898; Apr. 22.
Root, Bertwell C., assignor to Brown Company, Berlin, N. H. Conduit connection. 1,755,899; Apr. 22.
Rosen, Carl, Media, Ill. Pulverizer attachment for corn planters. 1,755,271; Apr. 22.
Rosenblatt, Isidor, Brooklyn, N. Y. Lighting fixture or article of similar nature. Des. 81,024; Apr. 22.
Ross, Clyde P., Chicago, Ill. Hoist. 1,755,840; Apr. 22.
Ross, Julius, et al. (See Linn, F. F., and Negles, assignors.)
Roux, Joseph S., Manchester, N. H. Mop handle. 1,755,363; Apr. 22.
Rowley, Clifford A., Chicago, Ill., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Cutting apparatus for sheet glass. 1,755,365; Apr. 22.
Royer, Enos S., assignor of one-half to R. J. O'Donnell, Wilkes-Barre, Pa. Separator. 1,755,364; Apr. 22.
Rubber Shock Insulator Corporation, The. (See Masury, Alfred F., assignor.)
Ruben Patents Company. (See Ruben, Samuel, assignor.)
Ruben, Samuel, assignor, by mesne assignments, to Ruben Tube Company, New York, N. Y. Vacuum-tube apparatus. 1,755,272; Apr. 22.
Ruben, Samuel, assignor to Ruben Patents Company, New York, N. Y. Electron-tube apparatus. 1,755,796; Apr. 22.
Ruben Tube Company. (See Ruben, Samuel, assignor.)
Rubenstein, Harry, Brooklyn, N. Y. Knitted fabric. 1,755,968; Apr. 22.
Ruby Lamp Mfg. Co. (See Ulvad, Bernhard E., assignor.)
Runsvold, Martin S., San Diego, Calif. Automatic heat-regulating device. 1,755,612; Apr. 22.
Ruth, Joseph P., jr., Denver, Colo. Device for conditioning ores. 1,755,273; Apr. 22.
Ryder, Frank P., Niagara Falls, N. Y. Self-cleaning, sorting, or sifting machine. 1,755,536; Apr. 22.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,755,366; Apr. 22.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,755,367; Apr. 22.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,755,368; Apr. 22.
Sachs, Joseph, West Hartford, Conn. Electric-circuit-controlling appliance. 1,755,369; Apr. 22.
St. George, Arthur, Chicago, Ill. Bird fountain. 1,755,706; Apr. 22.
Salzman, Julia C., Toledo, Ohio. Necktie hanger. Des. 81,025; Apr. 22.
Sample, Wilbur S., assignor of one-half to E. F. Hunter, Los Angeles, Calif. Reverse-movement brake mechanism for automobiles. 1,755,459; Apr. 22.
Sandstrom, Felix C., Milwaukee, Wis., assignor to International Harvester Company. Cream-separator-gear housing. 1,755,841; Apr. 22.
Sanite Corporation. (See Mendel, William, assignor.)
Sargent's, C. G., Sons Corporation. (See Furbush, Frank L., assignor.)
Schaal, Norbert J., Seattle, Wash., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y. Nesting can bodies. 1,755,668; Apr. 22.
Scharffenberg, Jean H., assignor to J. H. Stewart, Lynn, Mass. Counter-molding apparatus. 1,755,900; Apr. 22.
Schaun, Erich. (See Brecht, W., and Schaun.)
Schering-Kahlbaum Aktiengesellschaft. (See Stephen, K., and Uffers, assignors.)
Schering-Kahlbaum Aktiengesellschaft. (See Uffers, Fritz, assignor.)

Schettl, Louis J., Manitowoc, Wis. Animal feeder. 1,755,337; Apr. 22.
Scheu Manufacturing Company. (See Nutt, H. G., and Bartholomew, assignors.)
Scheyer, Heins. (See Kalischer, G., and Scheyer.)
Schirmacher, Karl, and K. Elshold, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Vat dyestuff. 1,755,667; Apr. 22.
Schlecht, Leo, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of acetone. 1,755,193; Apr. 22.
Schlosser, Friedrich, Hochst-on-the-Main, and M. Paquin, Koenigstein-in-Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Refining the raw oil of turpentine. 1,755,668; Apr. 22.
Schmidt, Henry F., Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pump. Re17,648; Apr. 22.
Schmidt, Lambert, jr., Brooklyn, assignor to himself and to L. Freund, New York, N. Y. Electric socket. 1,755,613; Apr. 22.
Schmieder, Robert S., assignor to Milwaukee Corrugating Company, Milwaukee, Wis. Hip tile. 1,755,412; Apr. 22.
Schnedarek, Emil, assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Apparatus for vulcanizing inner tubes. 1,755,563; Apr. 22.
Schnell, William, assignor to Ternstedt Manufacturing Company, Detroit, Mich. Door handle or similar article for an automotive vehicle. Des. 81,026; Apr. 22.
Schöberl, Robert, Budapest, Hungary. Chair convertible into a bedstead or couch. 1,755,842; Apr. 22.
Scholl, William M., Chicago, Ill. Arch support. 1,755,460; Apr. 22.
Schon, Lester. (See Shoenberg, M. H., and Schon.)
Schrayshuen, Carl, assignor to Speidel Chain Company, Providence, R. I. Watch bracelet or similar article. Des. 81,027; Apr. 22.
Schuitheiss, Fred, Woodhaven, N. Y. Woven fabric. Des. 81,028; Apr. 22.
Schumacher, Karl. (See Jenner, James, assignor.)
Schwab, Adam L., New Philadelphia, Ohio. Ingot-feeder clamp and shoulder support. 1,755,669; Apr. 22.
Schwenke, Paul, Zerbst, Anhalt, Germany. Fuse for submarine bombs. 1,755,797; Apr. 22.
Sciotto, Ross. (See Furnari, C., Basile, and Sciotto.)
Scott, Lester C. (See Mijer, P., Scott, and Radford.)
Scott, Philip L., Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind. Atomizing valve. 1,755,192; Apr. 22.
Searle, Harry A., Council Bluffs, Iowa. Fumigating device. 1,755,901; Apr. 22.
Selberling Rubber Company. (See Pfeiffer, Fred B., assignor.)
Sell, Gilbert E., Newark, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Aeration and gas-purification apparatus. 1,755,614; Apr. 22.
Sejersen, Ejnar. (See Floor, E., and Sejersen.)
Seltzer, Charles R., Longmeadow, Mass. Portable display rack. 1,755,615; Apr. 22.
Sena, Peter A., et al. (See Zisch, George J., assignor.)
Sevigne, F. J., Machine Company. (See Sévigné, Frederick J., assignor.)
Sévigné, Frederick J., Milford, assignor to F. J. Sevigne Machine Company, Nashua, N. H. Machine for marking round articles. 1,755,749; Apr. 22.
Seymour, Benjamin F., Washington, D. C. Shock-absorbing device. 1,755,194; Apr. 22.
Seymour, William A., assignor to The Hesse Manufacturing Company, Incorporated, Leavenworth, Kans. Automatic feeder for mills. 1,755,490; Apr. 22.
Shaft-Pierce Shoe Company. (See Shaft, Willis S., assignor.)
Shaft, Willis S., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Channeling soles. 1,755,843; Apr. 22.
Sharlin, Solomon, Trenton, N. J. Electric fixture. Des. 81,029; Apr. 22.
Shell Petroleum Corporation. (See Carney, Samuel C., assignor.)
Sheridan Iron Works, The, et al. (See Bredenberg, Alfred, assignor.)
Sheridan, T. W. & C. B., Company, et al. (See Bredenberg, Alfred, assignor.)
Sherman, Alvin G., Grosse Pointe, assignor to The Detroit Vapor Stove Company, Detroit, Mich. Stove construction. 1,755,671; Apr. 22.
Sherts, James H., Glen Ridge, N. J., and W. O. Lytle, New Kensington, Pa., assignors to Duplate Corporation. Removing defects of joinder from composite glass plates. 1,755,274; Apr. 22.
Shigyo, Hachiro, San Francisco, Calif. Vacuum cleaner. 1,755,969; Apr. 22.
Shoenberg, Milton H., and L. Schon, San Francisco, Calif.; said Schon assignor to said Shoenberg. Circuit-controlling device. 1,755,564; Apr. 22.
Shook, Lawrence G., Los Angeles, Calif. Electric hammer. 1,755,565; Apr. 22.
Shoup, George R., Puyallup, and G. E. Quinan, Seattle, Wash. Poultry brooder. 1,755,520; Apr. 22.
Shuppy, Charles L., et al. (See Linn, F. F., and Negles, assignors.)
Silica Products Co. (See Collings, William A., assignor.)
Simmons Company. (See Bayer, Matthew F., assignor.)
Simmons Company. (See McCullough, William E., assignor.)
Simons, Joseph, Los Angeles, Calif. Brick-forming machine. 1,755,566; Apr. 22.
Simplex Piston Ring Company. (See Solenberger, Dean M., assignor.)
Simplex Wire and Cable Company. (See Middleton, Washington I., assignor.)
Sinclair Refining Company. (See Herthel, Eugene C., assignor.)
Singer Manufacturing Company, The. (See Eames, G. M., and Webb, assignors.)
Singleton, Harold C., Scotia, N. Y., assignor to General Electric Company. Protective device. 1,755,970; Apr. 22.
Sjölander, Carl G. L., Dalsborg, Sweden. Security lock. 1,755,339; Apr. 22.
Skow, Christopher W., Newton, Iowa. Disk sharpener. 1,755,492; Apr. 22.
Slonneger, John C., assignor to Milwaukee Power Lawn Mower Company, Milwaukee, Wis. Lawn-mower drive. 1,755,844; Apr. 22.
Small, Jonathan C., Provincetown, Mass. Stera construction for motor boats and the like. 1,755,709; Apr. 22.
Smalley, Robert C., Arlington, N. J., assignor to Claude Neon Lights, Inc., New York, N. Y. Insulator. 1,755,971; Apr. 22.
Smiley, Samuel, jr., assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Suspension device. 1,755,338; Apr. 22.
Smith, Bernard C., New York, N. Y. Permutation padlock. 1,755,521; Apr. 22.
Smith, Bert A., Fayette, Iowa. End gate and retaining means therefor. 1,755,672; Apr. 22.
Smith, Cecil C., assignor to Swift & Company, Chicago, Ill. Bacon holder. 1,755,413; Apr. 22.
Smith, Cyril S., Cambridge, assignor of one-half to C. R. Hayward, Quincy, Mass. Deoxidizing copper. 1,755,309; Apr. 22.
Smith, Floyd, San Diego, Calif., assignor to Switlik Manufacturing Company, Trenton, N. J. Parachute pack. 1,755,414; Apr. 22.
Smith, Harold L. (See Barr, J. M., and Smith.)
Smith, Horatio W., Stockton, assignor to Caterpillar Tractor Co., San Leandro, Calif. Radiator shield. 1,755,870; Apr. 22.
Smith, Jacob A., River Forest, Ill. Coin-controlled clock. 1,755,871; Apr. 22.
Smith, Stephen, San Francisco, Calif. Flag holder. 1,755,372; Apr. 22.
Smith, William H., Norristown, assignor, by mesne assignments, to Electric Service Supplies Company, Philadelphia, Pa. Apparatus for finishing insulator shells. 1,755,308; Apr. 22.
Smith, William O., Wilkinsburg, assignor of one-half to J. C. Young, Pittsburgh, Pa. Bearing. 1,755,275; Apr. 22.
Smoot, Charles H., Maplewood, N. J. Centralized control for gas producers. 1,755,567; Apr. 22.
Smyth, Samuel J., Hawthorne, Calif. Closure cap. 1,755,522; Apr. 22.
Snyder, Frederick T., New Canaan, Conn. Process of and apparatus for smelting ores and recovering by-products therefrom. 1,755,845; Apr. 22.
Sochor, Hans, Zurich-Honrg, Switzerland. Foot-arch support. 1,755,568; Apr. 22.
Societe Quartz & Silice. (See George, Henri, assignor.)
Society of Chemical Industry in Basle. (See Stocker, Robert, assignor.)
Söderlund, Olof, and T. Gram, assignors to Techno-Chemical Laboratories, Limited, London, England. Drying. 1,755,373; Apr. 22.
Solenberger, Dean M., Kansas City, Mo., assignor to Simplex Piston Ring Company, Cleveland, Ohio. Piston ring. 1,755,673; Apr. 22.
Somers, Roy B., Muskegon, Mich. Humidistat. 1,755,276; Apr. 22.
Sonnenberg, Herman, Middle Village, N. Y. Molding machine. 1,755,274; Apr. 22.
Soprani, Paul, New York, N. Y., assignor of one-fifth to Martin C. Pissaia and one-fifth to Integrales. Fuel heater. 1,756,008; Apr. 22.
Soulis, Harold A., Easton, Pa. Internal-combustion-engine piston. 1,755,711; Apr. 22.
Soulis, Harold A. and W. T., Easton, Pa. Internal-combustion-engine piston. 1,755,710; Apr. 22.
Soulis, Wilbur T. (See Soulis, Harold A. and W. T.)
Speidel Chain Company. (See Schraysshuen, Carl, assignor.)
Sperry, Elmer A., Brooklyn, N. Y., and E. Meitner, Los Angeles, Calif., assignors, by mesne assignments, to Sperry Gyroscope Company, Inc. Director firing system. 1,755,340; Apr. 22.
Sperry Gyroscope Company. (See Sperry, E. A., and Meitner, assignors.)
Spigai, Vincenzo F., La Spesia, Italy. Automatic regulator for power-factor-improving apparatus. 1,755,491; Apr. 22.
Spinasse, Arthur E., Mount Vernon, Ohio. Apparatus and method for drawing glass. 1,755,523; Apr. 22.
Spring, George B., West Newton, Mass. Pole reenforcement. 1,755,461; Apr. 22.
Square D Company. (See Van Valkenburg, Hermon L., assignor.)
Standard Brands Incorporated. (See Brown, E. B., Frey, and Harkins, assignors.)

CARNEGIE LIBRARY OF ATLANTA

Standard Computing Scale Company, The. (See Jaenichen, Louis, assignor.)
Standard Gas Equipment Corporation. (See O'Dowd, Henry W., assignor.)
Standard Oil Development Company. (See Grant, Dudley H., assignor.)
Standard Sanitary Manufacturing Company. (See Trout, Harry R., assignor.)
Stanfield, William R., Union, Iowa. Supporting and driving attachment for tractor-operated corn harvesters. 1,755,524; Apr. 22.
Stanley, Andrew B. S., Moreland, Melbourne, Victoria, Australia. Massaging device. 1,755,936; Apr. 22.
Stanley, Charles E., Glendale, Calif. Washing machine. 1,755,341; Apr. 22.
Stanley, Walter, Latterworth, England. Fishing reel. 1,755,195; Apr. 22.
Staup, Peter C., Sheffield, Ala. Separating and grading machine. 1,755,277; Apr. 22.
Stearns & Foster Company, The. (See Nash, Benjamin S., assignor.)
Steed, Noel A., Portland, Ind. Gas feeder. 1,755,846; Apr. 22.
Steinberg, Jacob, Brooklyn, N. Y. Mine railroad track. 1,755,462; Apr. 22.
Steiner, Amos P., assignor to Landis Tool Company, Waynesboro, Pa. Work-clamping fixture for crank grinding machines. 1,755,937; Apr. 22.
Stephan, Karl, and F. Ulfers, Berlin-Charlottenburg, assignors to Schering-Kahlbaum Aktiengesellschaft, Berlin, Germany. Manufacture of esters of the borneols. 1,755,750; Apr. 22.
Stephani, Hermann, Magdeburg, assignor to the firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg, Buckau, Germany. Recovering volatilizable metals from ores or the like. 1,755,712; Apr. 22.
Stevens, Arthur C., assignor of one-third to P. W. Gross and one-third to I. M. Jones, Milwaukee, Wis. Lock. 1,755,847; Apr. 22.
Stewart, J. Hammond. (See Scharffenberg, Jean H., assignor.)
Stewarts & Lloyds, Limited. (See Dewey, Norman S., assignor.)
Stiefel, Ralph C. (See Krause, F. R., and Stiefel.)
Stillemire, Robert J., Ponce de Leon, Fla. Saw-filing stand. 1,755,415; Apr. 22.
Stimpson, Walter F., and W. B. Finch, Louisville, Ky.; said Finch assignor to said Stimpson. Scale. 1,755,751; Apr. 22.
Stock, Henry F. (See Loehr, Alexander L., assignor.)
Stocker, Robert, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Indigoid dyestuffs and making same. 1,755,972; Apr. 22.
Stockfleth, Berger, Berrien Springs, and F. W. Burger, Niles, assignors to Clark Tructractor Company, Battle Creek, Mich. Portable crane. 1,755,798; Apr. 22.
Stohr, Phillip L., assignor to Mid-West Bottle Cap Co., Belvidere, Ill. Milk-bottle cap. 1,755,493; Apr. 22.
Stoll, Albert, Koblenz, Switzerland. Tilting chair. 1,755,228; Apr. 22.
Stone, Herman, Greeley, Colo. Harrow. 1,755,229; Apr. 22.
Stone, John McW., assignor to Operadio Manufacturing Co., St. Charles, Ill. Loud-speaker. Des. 81,030; Apr. 22.
Stott, Harold R., Philadelphia, Pa. Photographer's flash gun. 1,755,707; Apr. 22.
Strain, William J., Upper Montclair, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Roller arrangement for printing presses. 1,755,278; Apr. 22.
Strandlund, Carl G. (See Brown, T., and Strandlund.)
Strupe, Cecil H., assignor to Leedy Manufacturing Company, Indianapolis, Ind. Tympano. 1,755,569; Apr. 22.
Submarine Signal Corporation. (See Bates, Ralph E., assignor.)
Suekoff, Louis A., Chicago, Ill. Mattress and making same. 1,755,714; Apr. 22.
Suekoff, Louis A., Wilmette, Ill. Mattress and cushion. 1,755,715; Apr. 22.
Suekoff, Louis A., assignor of one-half to F. A. Nachman, Chicago, Ill. Spring-filled mattress. 1,755,718; Apr. 22.
Sun Rise Lamp Mfg. Co. (See Abel, Frank J., assignor.)
Super-Diesel Tractor Corporation. (See Scott, Philip L., assignor.)
Sussman, Maxwell H., Kew Gardens, N. Y. Welding machine. 1,755,799; Apr. 22.
Sweet, Byron M., Barberton, Ohio. Storage-battery case. Des. 81,043; Apr. 22.
Swift & Company. (See Smith, Cecil C., assignor.)
Switlik Manufacturing Company. (See Smith, Floyd, assignor.)
Symons, Arthur H., River Forest, assignor to Symons Clamp & Mfg. Company, Chicago, Ill. Adjusting device. 1,755,708; Apr. 22.
Symons Clamp & Mfg. Company. (See Symons, Arthur H., assignor.)
Tabor Manufacturing Company, The. (See Ramsden, John T., assignor.)
Tabor Manufacturing Company, The. (See Wallace, Frank R., assignor.)
Tanner, Arnold J., North Haven, assignor of one-half to T. H. Low, New Haven, Conn. Folder or container. 1,755,875; Apr. 22.
Tarzian, Sarkes, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Volume control. 1,755,810; Apr. 22.
Tascarella, Salvatore, Brooklyn, N. Y. Glove-drying rack. 1,755,902; Apr. 22.
Tatter, John W., assignor to Lewis Differential Company, Chicago, Ill. Brake. 1,755,525; Apr. 22.
Taurainen, Charles, Houghton, Mich. Agitating means for hoppers. 1,755,674; Apr. 22.
Taylor, Eugene C., Patterson, La. Rotary advertising apparatus. 1,755,848; Apr. 22.
Taylor, John, Exeter, N. H. Billiard table. 1,755,675; Apr. 22.
Techno-Chemical Laboratories, Limited. (See Söderlund, O., and Gram, assignors.)
Teitscheid, Alfred F., Wharton, N. J. Combination fuse. 1,755,279; Apr. 22.
Teleregister Corporation, The. (See Favarger, François, assignor.)
Temple, Clyde V., McCamey, Tex. Dynamometer. 1,755,849; Apr. 22.
Ternstedt Manufacturing Company. (See Schnell, William, assignor.)
Thomas, Olive K., et al. (See Freydberg, A., and Marcus, assignors.)
Thompson, Gertrude E., assignor to Van Sicklen Corporation, Elgin, Ill. Receptacle for smokers' use and articles. Des. 81,031; Apr. 22.
Thompson, Lincoln, Naugatuck, assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn. Amplification system. 1,755,938; Apr. 22.
Thompson, Watson T., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Road oiler. 1,755,876; Apr. 22.
Thompson, William H., assignor to J. W. Duncan, Wichita Falls, Tex. Liquid-spraying machine. 1,755,716; Apr. 22.
Thomson, Fred C., deceased, Beverly Hills; D. R. Faries, administrator, Los Angeles, Calif. Bearing box. 1,755,570; Apr. 22.
Tidal Oil Company. (See Hicks, John R., assignor.)
Tindal Irby, Greenville, Ala. Starter switch. 1,755,850; Apr. 22.
Tissot, Henri G., West Oakland, Calif. Lifting attachment for aeroplane wings. 1,755,842; Apr. 22.
Todd, Harry L., Los Angeles, Calif. Desk protector. Des. 81,032; Apr. 22.
Tollagsen, Olaf, Chicago, Ill., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis. Self-basting cover. 1,755,800; Apr. 22.
Tourtois, Fernand, assignor to Coty, Inc., New York, N. Y. Box or similar article. Des. 81,033; Apr. 22.
Townsend, Charlie J., Pocatello, Idaho. Fishhook holder. 1,755,903; Apr. 22.
Trauger, Guy A., Alden, Iowa. Device for controlling tractors from a distance. 1,755,526; Apr. 22.
Trenkamp, Herman J. (See Watzl, Ernst J., assignor.)
Trout, Harry R., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory leg. Des. 81,034; Apr. 22.
Trout, Harry R., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Lavatory leg. Des. 81,035; Apr. 22.
Truscon Steel Company. (See Carlson, John O., assignor.)
Truscon Steel Company. (See White, Herbert E., assignor.)
Tullis, Harley A. (See Benedict, C. C., and Tullis.)
Turner, Edward R., Holly, Colo. Door or gate operating device. 1,755,904; Apr. 22.
Turner Tanning Machinery Company, The. (See Benjamin, John M., assignor.)
Turner, Walter L., Paris, Tex. Mechanical cotton picker. 1,755,280; Apr. 22.
Twiford, William B. and G. Oehler, Miami, Fla. Dog-racing apparatus. 1,755,676; Apr. 22.
Two-Tone Corporation. (See Mijer, P., Scott, and Radford, assignors.)
Uhlig, George, Portland, Oreg. Diving apparatus. 1,755,939; Apr. 22.
Ulfers, Fritz. (See Stephan, K., and Ulfers.)
Ulfers, Fritz, Berlin-Charlottenburg, assignor to Schering-Kahlbaum Aktiengesellschaft, Berlin, Germany. Manufacturing esters of the borneols. 1,755,752; Apr. 22.
Ulvad, Bernhard E., Long Island City, assignor to Ruby Lamp Mfg. Co. Inc., New York, N. Y. Lighting-fixture arm or article of similar nature. Des. 81,036; Apr. 22.
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Resch, Henry, assignor.)
Underwood Elliott Fisher Company. (See Von Reppert, Richard, assignor.)
Union Carbide and Carbon Research Laboratories, Inc. (See Mott, Chester, assignor.)
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Switch & Signal Company, The. (See McCann, Ronald A., assignor.)
United-Carr Fastener Corporation. (See Carr, Fred S., assignor.)
United-Carr Fastener Corporation. (See Carr, Moses F., assignor.)
United Shoe Machinery Corporation. (See Knight, Ralph F., assignor.)

United Shoe Machinery Corporation. (See Richardson, John H., assignor.)
United States Colloid Mill Corporation. (See Eppenbach, William, assignor.)
United States Rubber Company. (See Banks, Henry W., 3d., assignor.)
Upton, Louis C., and G. B. Kell, St. Joseph, Mich., assignors, by mesne assignments to Nineteen Hundred Corporation. Power appliance. 1,755,973; Apr. 22.
Urano, Saburo, Takatacho, near Tokyo, and S. Imai, Okucho, near Tokyo, Japan. Manufacturing basic calcium hypochlorites. 1,755,677; Apr. 22.
Vanderbilt, R. T. Co. (See Murrill, P. I., and Evans, assignors.)
Vanderbilt, R. T., Company. (See Vanderbilt, Robert T., assignor.)
Vanderbilt, Robert T., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y. Coloring clay. 1,755,616; Apr. 22.
Van Epps, Glen K., assignor of one-half to H. Meints, Grand Mound, Iowa. Bucket support. 1,755,851; Apr. 22.
Van Pelt, Arnold F. (See Fischer, F., and Van Pelt.)
Van Sicklen Corporation. (See Thompson, Gertrude E., assignor.)
Van Valkenburg, Hermon L., Milwaukee, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich. Thermal overload relay. 1,755,231; Apr. 22.
Vauclain, Samuel M., Rosemont, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Locomotive. 1,755,974; Apr. 22.
Vavories, James, Burdine, Ky. Rail tie and fastening means. 1,755,196; Apr. 22.
Victor, Alexander F., Davenport, Iowa. Miniature motion-picture theater. 1,755,280; Apr. 22.
Vilneau, Walter W., et al. (See Vilneau, W. W., and Chittenden, assignors.)
Vilneau, Walter W., and E. Chittenden, Palo Alto, Calif., assignors of one-third to H. E. Jensen, one-third to W. P. Goodenough, and one-third to W. W. Vilneau, Palo Alto, Calif. Hardwood-floor-nailing machine. Re. 17,651; Apr. 22.
Vincent, Ainsley J., Lawrence, Mass. Window and screen therefor. 1,755,801; Apr. 22.
Von Kories, Otto, Holtville, Calif. Aeroplane. 1,755,828; Apr. 22.
Von Reppert, Richard, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,755,197; Apr. 22.
Von Reppert, Richard, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,755,281; Apr. 22.
Vorclone Corporation. (See Bruckmann, P. C., and Hager, assignors.)
Voss, Hugo H., Chicago, Ill., assignor to Mayer's Movable Merchandiser. Movable sign. 1,755,753; Apr. 22.
Vossen, Bartholomäus. (See Henle, F., and Vossen.)
Wacho Manufacturing Company, The. (See Wachowitz, Walter J., assignor.)
Wachowitz, Walter J., assignor to The Wacho Manufacturing Company, Milwaukee, Wis. Forming tanks. 1,755,416; Apr. 22.
Waddell, Clarence W., Dallas, Tex. Device for handling building materials. 1,755,463; Apr. 22.
Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
Wagener, Fredrick G., Chicago, Ill. Clamping pin. 1,755,718; Apr. 22.
Wagner, James, Peninsula, Ohio. Artificial-limb joint. 1,755,852; Apr. 22.
Wagner, Karl, Reutlingen, Germany. Saw. 1,755,717; Apr. 22.
Wagner, Stefan. (See Koehl, J. W., Palkowski, and Wagner.)
Wahl, Ottmar, Leverkusen, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Dyestuffs derived from indoline bases and preparing same. 1,755,678; Apr. 22.
Wake, John F., Darlington, England. Drying of road-making aggregates and other broken or granular materials. 1,755,377; Apr. 22.
Waldorf Paper Products Company. (See Guyer, Reynolds, assignor.)
Walker, Jay P., assignor of forty per cent to G. O. Marchant and six per cent to C. G. Wells, Tulsa, Okla. Separator louver. 1,755,527; Apr. 22.
Walkerdine, Arthur F., San Francisco, Calif. Fernery. Des. 81,037; Apr. 22.
Wallace, Frank R., assignor to The Tabor Manufacturing Company, Philadelphia, Pa. Molding machine. 1,755,679; Apr. 22.
Wallace, George W. (See Evans, John M., assignor.)
Wallace, William S., et al., trustees. (See Davis, Kenneth, assignor.)
Wallerstein, John, New York, N. Y. Ironing table. 1,755,617; Apr. 22.
Wallis, Joseph E. (See Armstrong, J. C., and Wallis.)
Wappler, Frederick C. (See Wappler, Reinhold H. and F. C.)
Wappler, Reinhold H., Yonkers, and F. C. Wappler, New York, N. Y. Nasal syringe. 1,755,754; Apr. 22.
Ward, Warren W. (See Marks, Sidney, assignor.)
Waring, Ethel B., Ithaca, N. Y. Dictionary and educational game. 1,755,853; Apr. 22.
Watts, Aaaron P., Los Angeles, Calif. Coil-bending tool. 1,755,571; Apr. 22.
Watts, Oscar J., Kensington, Kans. Merry-go-round. 1,755,940; Apr. 22.
Watzl, Ernst J., East Cleveland; M. C. Watzl, trustee for said Ernst J. Watzl, missing, assignor of one-half to H. J. Trenkamp, Cleveland Heights, Ohio. Feeding and conveying apparatus. 1,755,618; Apr. 22.
Watzl, Marie C., trustee. (See Watzl, Ernst J.)
Webb, Irving F. (See Eames, G. M., and Webb.)
Weber, Tobias, et al. (See Chase, Hamilton C., assignor.)
Weckert, George L., Seattle, Wash. Bag holder. 1,755,584; Apr. 22.
Weed, Emil W., Raymond, Alberta, Canada. Grapple and basket for wagon-loading apparatus. 1,755,854; Apr. 22.
Weinberger, Benjamin, Mount Carmel, Ill. Pad support for pressing machines. 1,755,802; Apr. 22.
Welding Engineers Incorporated. (See Hendrickson, John B., assignor.)
Wellington Machine Company, The. (See Deisler, Harry W., assignor.)
Wells, C. G., et al. (See Walker, Jay P., assignor.)
Westerberg, Carl A. A., assignor to Aktiebolaget Superior, Stockholm, Sweden. Steam cleansing device for locomotive and similar boilers. 1,755,855; Apr. 22.
Westerfield, Braeber O., assignor to Bunte Brothers, Chicago, Ill. Packaging candy canes. 1,755,234; Apr. 22.
Westerlund, Charlie, San Antonio, Tex. Toy. 1,755,619; Apr. 22.
Western Union Telegraph Company, The. (See Nelson, Crescent F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Breisky, John V., assignor.)
Westinghouse Electric and Manufacturing Company. (See Erskine, Ralph W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Haas, Carl F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kendig, Julian H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Peters, John F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Weymouth, Harry G., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Meter. 1,755,905; Apr. 22.
White, Herbert E., assignor to Truscon Steel Company, Youngstown, Ohio. Weather strip for sliding metal sash. 1,755,620; Apr. 22.
White Shoers, Inc. (See Nelson, Bert J., assignor.)
Whitehouse, Francis B. B., Harborne, Birmingham, England. Apparatus for playing a race game. 1,755,621; Apr. 22.
Whitley, Rob D., Nashville, N. C. Plow attachment. 1,755,622; Apr. 22.
Whitmore, Edward E., assignor to The Adlake Company, Chicago, Ill. Curtain fixture. 1,755,232; Apr. 22.
Whitmore, Edward E., assignor to Adlake Company, Chicago, Ill. Curtain fixture. 1,755,233; Apr. 22.
Willard, Waldo W., Schenectady, N. Y., assignor to General Electric Company. Indicator system. 1,755,975; Apr. 22.
Williams, Dolphus, Sanger, Calif. Engine valve. 1,755,976; Apr. 22.
Williams, Henry C., Sargent, Nebr. Fuel composition. 1,755,282; Apr. 22.
Williams, Mark B., Plainview, Tex. Automatic tractor-steering device. 1,755,623; Apr. 22.
Williams, Samuel, Elk City, Okla. Valve for pneumatic conveyers. 1,755,464; Apr. 22.
Williams, Stephen L., assignor to Extruded Metal Products Company, Bridgeport, Ohio. Pickling apparatus. 1,755,719; Apr. 22.
Williamson, Thomas E., Kirkland, Tex. Churn. 1,755,343; Apr. 22.
Willis, Bernard D., Oak Park, assignor to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,755,378; Apr. 22.
Wills, Harry E., North Brookfield, Mass. Heel cutter. 1,755,856; Apr. 22.
Wilms, Gustav O., assignor to The Reliance Company, Milwaukee, Wis. Electrical switch. Re17,649; Apr. 22.
Wilson, Douglas A., Peoria, assignor to Altorfer Bros. Company, East Peoria, Ill. Washing machine. 1,755,465; Apr. 22.
Wilson, John H., San Diego, Calif. Combination flatiron and stand. 1,755,528; Apr. 22.
Wilson, Laurence F., Dallas, Tex. Beehive-frame hook. 1,755,941; Apr. 22.
Winchester Repeating Arms Co. (See McNutt, Joseph D., assignor.)
Winder, Frank J., Brackenridge, Pa., assignor to Allegheny Steel Company. Apparatus for normalizing and pickling metals. 1,755,755; Apr. 22.
Wine, William E., Toledo, Ohio. Car-door device. 1,755,529; Apr. 22.
Winkler, Alfred, and M. Dünnebier, Neuwied, Germany. Apparatus for handling articles. 1,755,720; Apr. 22.
Winkler, Alfred, and M. Dünnebier, Neuwied, Germany. Apparatus for handling articles. 1,755,721; Apr. 22.
Wittcoff, Edward, St. Louis, Mo. Hat. 1,755,198; Apr. 22.

Wood Shovel and Tool Company, The. (See Brandenburg, Francis C., assignor.)
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,755,942; Apr. 22.
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Carburetor for internal-combustion engines. 1,755,943; Apr. 22.
Wray, George, Southport, England. Apparatus for delivering liquids in measured quantities by volume. 1,755,756; Apr. 22.
Wuest, Adolf, St. Francis, Wis. Combination chair and ladder. 1,755,680; Apr. 22.
Wynn, Thomas T., New York, N. Y. Combined dial and hands for a timepiece. Des. 81,038; Apr. 22.
Wynn, Thomas T., New York, N. Y. Hand for a timepiece or similar article. Des. 81,039; Apr. 22.
Wynn, Thomas T., New York, N. Y. Dial of a timepiece or similar article. Des. 81,040; Apr. 22.
Wynn, Thomas T., New York, N. Y. Hand for a timepiece or similar article. Des. 81,041; Apr. 22.
Yacht- und Bootswerft Burmester m. b. H. (See Burmester, E., and Hein, assignors.)
Yates, James W., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time recorder. 1,755,906; Apr. 22.
Young, John C. (See Smith, William O., assignor.)
Youngstown Pressed Steel Co., The. (See Clark, C. L., and Galbreath, assignors.)
Yount, Miles F., Beaumont, Tex. Flame arrester. 1,755,624; Apr. 22.
Zahn, Otto, Hanau-on-the-Main, Germany. Connection apparatus for the wires of head receivers for broadcasting. 1,755,757; Apr. 22.
Zallio, John B., Chicago, Ill. Dish cover. 1,755,199; Apr. 22.
Zallio, John B., Chicago, Ill. Dish cover. 1,755,200; Apr. 22.
Zeh, Ludwig. (See Duisberg, W., Hentrich, and Zeh.)
Zeiss, firm Carl. (See Meyer, Franz, assignor.)
Zieley Processes Corporation. (See Gibb, John A., assignor.)
Zimmerman, Frank M., Aurora, Ill. Label holder. 1,755,758; Apr. 22.
Zirkle, Charles E. (See Kelly, E. G., and Zirkle.)
Zisch, George J., assignor to P. A. Sena and R. A. Ebert, Newark, N. J. Prepayment meter for radio apparatus. 1,755,681; Apr. 22.
Zwiebel, Fredrik, Prospect Park, N. J. Feeler motion for looms. 1,755,907; Apr. 22.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22ND DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acetone, Production of. L. Schlecht. 1,755,193; Apr. 22.
Acid mixtures, Denitration of waste. W. Büsching. 1,755,768; Apr. 22.
Acid, Production of glutaminic. K. Bromig. 1,755,683; Apr. 22.
Acid, 6-chloro-2-amino-1-methylbenzene-4-sulphonic. F. Henle and B. Vossen. 1,755,648; Apr. 22.
Acids of high wetting, cleaning, and emulsifying power, Sulphonic. F. Günther. 1,755,179; Apr. 22.
Adjusting device. A. H. Symons. 1,755,708; Apr. 22.
Advertising apparatus, Rotary. E. C. Taylor. 1,755,848; Apr. 22.
Aeration and gas purification apparatus. G. E. Seil. 1,755,614; Apr. 22.
Aerial flare. G. J. J. Clark and E. B. Jones. 1,755,888–9; Apr. 22.
Aerial, Loop. A. G. Harms. 1,755,820; Apr. 22.
Aerial, Portable loop. E. F. Andrews. 1,755,530; Apr. 22.
Aeroplane. O. Von Kories. 1,755,828; Apr. 22.
Aeroplane-control mechanism. V. V. Muzik. 1,755,889; Apr. 22.
Aeroplane-control stick, Safety. J. B. Lievre. 1,755,928; Apr. 22.
Aeroplane wing. J. F. McKenzie. 1,755,886; Apr. 22.
Aeroplane wings, Lifting attachment for. H. G. Tissot. 1,755,842; Apr. 22.
Agricultural device. J. S. Fielding. 1,755,247; Apr. 22.
Agricultural machine, Motor. A. T. Brown. 1,755,767; Apr. 22.
Air cleaner. W. C. Buttner. 1,755,423; Apr. 22.
Air cleaner. F. A. Donaldson. 1,755,819; Apr. 22.
Aircraft pontoon. J. A. Pendergrass. 1,755,932; Apr. 22.
Air heater. D. Parker. 1,755,268; Apr. 22.
Air-heating furnace. R. E. Cramer. 1,755,727; Apr. 22.
Air-moistening device for combustion engines. W. Hager and H. Riekert. 1,755,733; Apr. 22.
Alarm: *See*—
Fire alarm.
Theft alarm.
Albumino-caseins of vegetable origin and for the separation of such albumino-caseins from amylaceous matter, Extraction of the. H. Beaufour. 1,755,531; Apr. 22.
Alcohol, Preparation of condensation products of ethyl. W. O. Herrmann and E. Baum. 1,755,692; Apr. 22.
Alloy and heat treating the same, Copper nickel aluminum. W. A. Mudge. 1,755,557; Apr. 22.
Alloy and heat treating the same, Heat-treated nickel-copper-aluminum. W. A. Mudge. 1,755,554; Apr. 22.
Alloy, Heat-treated copper-nickel-aluminum. W. A. Mudge. 1,755,556; Apr. 22.
Alloys of copper, nickel, and aluminum, Manufacture of. W. A. Mudge. 1,755,555; Apr. 22.
Amplification system. L. Thompson. 1,755,938; Apr. 22.
Amplifier, Tuned radio frequency. R. S. Ohl. 1,755,266; Apr. 22.
Amplifying and reproducing system, Speech. Le R. Mark. 1,755,484; Apr. 22.
Anchor, Earth. A. B. Chance. 1,755,811; Apr. 22.
Anhydride. Refining crude phthalic. C. Conover. 1,755,242; Apr. 22.
Animal trap. W. G. Baker. 1,755,947; Apr. 22.
Arch support. W. M. Scholl. 1,755,460; Apr. 22.
Arch support, Foot. H. Sochor. 1,755,568; Apr. 22.
Articles, Apparatus for handling. A. Winkler and M. Dünnebier. 1,755,720–1; Apr. 22.
Artificial-limb joint. J. Wagner. 1,755,852; Apr. 22.
Asphalt biscuits, Manufacturing and treating. A. A. Glidden and A. R. Lukens. 1,756,011; Apr. 22.
Assorting-table deflecting means. E. L. A. Morrow. 1,755,660; Apr. 22.
Autographic register. P. A. Jackson. 1,755,854; Apr. 22.
Automobile radiator cap. F. O. de Alcocer. 1,755,816; Apr. 22.
Automobile tonneaux, Detachable commercial body for. R. A. Hill. 1,755,543; Apr. 22.
Awning and screen, Combined. S. Hagopian. 1,755,955; Apr. 22.
Bag: *See*—
Hand bag.
Bag and support therefor, Mail. D. L. and P. J. Dobson. 1,755,950; Apr. 22.
Bags, Umbrella-fastening means for. J. R. Danner. 1,755,209; Apr. 22.
Bagle-forming machine. L. Gendler. 1,755,921; Apr. 22.
Banjo. F. J. Heller. 1,755,821; Apr. 22.
Banjo or similar article. A. E. Hunter. Des. 81,007; Apr. 22.
Battery case, Storage. B. M. Sweet. Des. 81,043; Apr. 22.
Battery-charging circuits. W. H. T. Holden. 1,755,258; Apr. 22.
Beam-handling apparatus for coal-mining and other operations. K. Klepadlo and A. Gratkowski. 1,755,738; Apr. 22.
Bearing. W. O. Smith. 1,755,275; Apr. 22.
Bearing box. F. C. Thomson. 1,755,570; Apr. 22.
Bearing, Cushion side. W. L. Downey. 1,755,869; Apr. 22.
Bearing, Self-aligning pitman. R. R. Bloss and R. C. Pfeil. 1,755,723; Apr. 22.
Bearings on pivoted structures, Lubrication of. J. Bijur. 1,755,626–8; Apr. 22.
Bed, Disappearing. A. L. Jones. Re17,647; Apr. 22.
Beehive-frame hook. L. F. Wilson. 1,755,941; Apr. 22.
Beet blocker. H. Becerra. 1,755,861; Apr. 22.
Belt replacer. F. L. and W. R. Homestead. 1,755,876; Apr. 22.
Billiard table. J. Taylor. 1,755,675; Apr. 22.
Binder. F. J. Kline. 1,755,604; Apr. 22.
Binder, Loose-leaf. J. E. Carr. 1,755,770; Apr. 22.
Bird fountain. A. St. George. 1,755,706; Apr. 22.
Boat. E. Burmester and H. Hein. 1,755,724; Apr. 22.
Boiler and the like. T. E. Murray. 1,755,888; Apr. 22.
Boiler-feed-water apparatus. R. L. Dennison. 1,755,317; Apr. 22.
Boll-weevil catcher. H. K. Dowdy. 1,755,714; Apr. 22.
Bolts, Anchoring. R. A. Mirzan. 1,755,264; Apr. 22.
Book and storage stack. C. S. Brown. 1,755,580; Apr. 22.
Bookbinding or covering machine. A. Bredenberg. 1,755,237; Apr. 22.
Boot-tree. J. H. Flink. 1,755,248; Apr. 22.
Boring machine, Automatic. J. W. Koehl, C. Palkowski, and S. Wagner. 1,755,401; Apr. 22.
Bottle cap, container, and other reenforced product. E. L. Greenewald. 1,755,597; Apr. 22.
Bottle cap, Milk. P. L. Stohr. 1,755,493; Apr. 22.
Bottle, Nonrefillable. A. Impellitteri. 1,755,783; Apr. 22.
Bottle or jar. T. C. Adams. 1,755,944; Apr. 22.
Bowl, Automatic sanitary sugar. L. Nagy. 1,756,002; Apr. 22.
Box: *See*—
Bearing box.
Foldable box.
Folding box.
Meter box.
Packing and display box.
Stuffing box.
Tool box.
Vanity box.
Box and platform, Sectional. C. L. Clark and W. W. Galbreath. 1,755,725; Apr. 22.
Box-container composition and making same, Battery. R. N. Chamberlain. 1,755,500; Apr. 22.
Box former, Tubular. E. H. Newton and F. Green. 1,755,513; Apr. 22.
Box or similar article. F. Tourtois. Des. 81,033; Apr. 22.
Brace for railway cars and the like, Load. C. E. Goetz. 1,755,729; Apr. 22.
Bracelet or similar article. W. Reichert. Des. 81,019; Apr. 22.
Bracket: *See*—
Wall bracket.
Braid. C. Lipper. Des. 81,013–4; Apr. 22.
Brake. J. T. Bernard. 1,755,909; Apr. 22.
Brake. M. Loughead. 1,755,829–30; Apr. 22.
Brake. J. F. O'Connor. 1,755,408; Apr. 22.
Brake. J. W. Tatter. 1,755,525; Apr. 22.
Brake-cam centralizer. C. G. Belden. 1,755,977; Apr. 22.
Brake control. G. E. A. Hallett. 1,755,989; Apr. 22.
Brake mechanism for automobiles, Reverse-movement. W. S. Sample. 1,755,459; Apr. 22.
Brake shoe. J. H. Graham. 1,755,645; Apr. 22.
Brake structure, Bull-wheel. R. R. Bloss. 1,756,009; Apr. 22.
Brake-testing machine. P. J. Donavan. 1,755,287; Apr. 22.
Brewing waters, Improving. E. Jalowetz. 1,755,544; Apr. 22.
Brick-forming machine. J. Simons. 1,755,566; Apr. 22.
Brick, Locomotive arch. A. F. Becker. 1,755,682; Apr. 22.
Brine-mixing apparatus. A. Fazio. 1,755,437; Apr. 22.
Brooder, Poultry. G. R. Shoup and G. B. Quinan. 1,755,520; Apr. 22.
Buckle device. M. F. Carr. 1,755,592; Apr. 22.
Buckle, Shoe. S. M. Riker. Des. 81,020; Apr. 22.
Buckle, Shoe. S. M. Riker. 1,755,806; Apr. 22.
Building materials, Device for handling. C. W. Waddell. 1,755,463; Apr. 22.
Bumper, Automobile. J. Comiskey. 1,755,207; Apr. 22.
Bumper, Vehicle. A. Hancock. 1,755,398; Apr. 22.
Burial apparatus. C. W. Baker. 1,755,170; Apr. 22.
Burner. H. Robichaux. 1,755,226; Apr. 22.
Burners, Electrical spark control for. F. Fischer and A. F. Van Pelt. 1,755,390; Apr. 22.
Cabinet for radio receiving sets. C. M. Olsen. Des. 81,017; Apr. 22.
Cabinet for soda fountains, Cooler. T. De Stefani. 1,755,816; Apr. 22.
Cable, Power. W. I. Middleton. 1,755,980; Apr. 22.
Cage, Guard. E. A. Baker. 1,755,495; Apr. 22.

Calcium hypochlorites, Manufacturing basic. S. Urano and S. Imai. 1,755,677; Apr. 22.
Camera. C. Motti. 1,755,452; Apr. 22.
Camera, Photographic. J. W. L. Koehne. 1,755,220; Apr. 22.
Cameras, Scale and attachment for reducing and enlarging. A. Fruwirth. 1,755,177; Apr. 22.
Cam mechanism. S. Hunt. 1,755,956; Apr. 22.
Can. E. Hildebrandt. 1,755,297; Apr. 22.
Can bodies, Nesting. N. J. Schaal. 1,755,666; Apr. 22.
Candlestick or article of analogous nature. F. J. Abel. Des. 80,993; Apr. 22.
Candy canes, Packaging. B. O. Westerfield. 1,755,284; Apr. 22.
Cap. A. Goldstein. 1,755,293; Apr. 22.
Capstan. A. E. Norris. 1,755,187; Apr. 22.
Car construction. S. B. Haseltine. 1,755,582; Apr. 22.
Car construction. W. H. Miner. 1,755,405; Apr. 22.
Car construction. J. F. O'Connor. 1,755,409–10; Apr. 22.
Car, Motor-cycle vending side. W. E. Cavadas. 1,755,593; Apr. 22.
Car-runway construction, Railway-. R. W. Coe and M. M. Bacon. 1,755,241; Apr. 22.
Car, Tunnel-kiln. G. D. Morris. 1,755,701; Apr. 22.
Car vestibule and door arrangement. E. F. Carry. 1,755,239; Apr. 22.
Cars, Luggage unloader for railway. A. C. McCord. 1,755,785; Apr. 22.
Carburetor. M. Goudard. 1,755,988; Apr. 22.
Carburetor for internal-combustion engines. L. M. Woolson. 1,755,943; Apr. 22.
Card-counting machine. H. D. Lowd. 1,755,884; Apr. 22.
Card, Record or index. D. W. B. Kurtz, jr. 1,755,961; Apr. 22.
Carton, Display. R. Guyer. 1,755,731; Apr. 22.
Carton, Egg. L. Benoit. 1,755,688; Apr. 22.
Cartons, Filler for egg. J. L. Coyle. 1,755,208; Apr. 22.
Case: *See*—
Instrument case. Vanity case.
Case for bridles, Shipping and display. M. H. Hellman. 1,755,295; Apr. 22.
Cash register. T. Carroll. 1,755,499; Apr. 22.
Cash register. M. M. Goldberg. 1,755,504; Apr. 22.
Casing cutter. W. L. Church. 1,755,206; Apr. 22.
Casing, Sectional. E. D. Lemmerman. 1,755,608; Apr. 22.
Caster, Furniture and like. H. S. Hele-Shaw and T. E. Beacham. 1,755,670; Apr. 22.
Caster socket. W. F. Herold. 1,755,322; Apr. 22.
Caster, Spring. H. W. Deisler. 1,755,537; Apr. 22.
Cathead and friction hoist, Combination make-up. W. W. Foster. 1,755,728; Apr. 22.
Ceiling vent. J. Jenner. 1,755,784; Apr. 22.
Cement and other calcareous plastics, Hydraulic. W. A. Collings. 1,755,502; Apr. 22.
Cement, Manufacture of waterproof. J. M. Evans. 1,755,638; Apr. 22.
Chain, Power-transmission. F. L. Morse. 1,755,887; Apr. 22.
Chair: *See*—
Folding chair. Tilting chair.
Chair. J. B. Glass. 1,755,215; Apr. 22.
Chair and ladder, Combination. A. Wuest. 1,755,680; Apr. 22.
Chair convertible into a bedstead or couch. R. Schöberl. 1,755,842; Apr. 22.
Chenille fringes or other similar ornaments and products, Manufacture of. P. Rodier. 1,755,839; Apr. 22.
Chimney structure. R. F. Chambers. 1,755,771; Apr. 22.
Churn. C. E. Cole. 1,755,813; Apr. 22.
Churn. T. E. Williamson. 1,755,343; Apr. 22.
Circuit-controlling appliance, Electric-. J. Sachs. 1,755,366–9; Apr. 22.
Circuit-controlling device. M. H. Shoenberg and L. Schon. 1,755,564; Apr. 22.
Circuit-controlling mechanism. K. Davies. 1,755,481; Apr. 22.
Circuits, Coupling. H. R. Butler. 1,755,865; Apr. 22.
Circuits, Electrical selecting. F. Favarger. 1,755,212; Apr. 22.
Clamp. A. L. Nelson. 1,755,454; Apr. 22.
Clamp and shoulder support, Ingot-feeder. A. L. Schwab. 1,755,669; Apr. 22.
Clamping member for sole-rounding machines. A. Labrie. 1,755,606; Apr. 22.
Clamping pin. F. G. Wagener. 1,755,718; Apr. 22.
Clay, Coloring. R. T. Vanderbilt. 1,755,616; Apr. 22.
Cleaner: *See*—
Air cleaner. Vacuum cleaner.
Clip: *See*—
Paper clip.
Clock, Coin-controlled. J. A. Smith. 1,755,371; Apr. 22.
Clock, Electric. W. E. Porter. 1,755,560; Apr. 22.
Clock, Electrically-driven. F. Holden. 1,755,649; Apr. 22.
Closure. L. R. N. Carvalho. 1,755,168; Apr. 22.
Closure cap. S. J. Smyth. 1,755,522; Apr. 22.
Closure device for perfume bottles or the like. W. Düskow. 1,755,433; Apr. 22.
Closure for wall openings, Safety. W. F. Canavan. 1,755,868; Apr. 22.
Clutch. O. R. and W. G. Humphreys. 1,755,250; Apr. 22.
Clutch transmission, Hydraulic. H. J. Kline. 1,755,182; Apr. 22.
Coagulated bodies, Dispersing. W. B. Pratt. 1,755,891; Apr. 22.
Coal mining and loading machine, Combined. E. C. Morgan. 1,755,331; Apr. 22.
Coating on metal, Producing a phosphate. M. Green and V. M. Darsey. 1,735,391; Apr. 22.
Coin-slot guard. W. Rabkin. 1,755,270; Apr. 22.
Collector, Refuse. H. C. Lima. 1,755,547; Apr. 22.
Comparascope. I. Fisher. 1,755,596; Apr. 22.
Composition for repelling insects. D. H. Grant. 1,755,178; Apr. 22.
Concrete-form-clamping device. S. S. Colt. 1,755,284; Apr. 22.
Concrete-mixer truck body and frame, Combined. P. A. Koehring. Des. 81,010; Apr. 22.
Condensation product of the benzanthrone series and making same. G. Kalischer and H. Scheyer. 1,755,870; Apr. 22.
Condenser. G. Jacobs. 1,755,181; Apr. 22.
Conduit connection. B. C. Root. 1,755,899; Apr. 22.
Conduit joint and making same, Fiber. B. C. Root. 1,755,898; Apr. 22.
Connecting rod. O. T. Isaacson. 1,755,650; Apr. 22.
Connection apparatus for the wires of head receivers for broadcastings. O. Zahn. 1,755,757; Apr. 22.
Container. J. E. Gunter. 1,755,441–2; Apr. 22.
Container, Cigarette slide. W. F. Grupe. 1,755,579; Apr. 22.
Container, Vacuum. W. M. Myers. 1,755,333; Apr. 22.
Continuous extractor. F. L. Furbush. 1,755,214; Apr. 22.
Control, Cyclic current. W. B. Jones. 1,755,479; Apr. 22.
Control device for electric illuminated signs. W. Ostermayer. 1,755,267; Apr. 22.
Control unit, Concentrated. A. M. Morrison. 1,755,451; Apr. 22.
Control, Volume. S. Tarsian. 1,755,310; Apr. 22.
Controllable auxiliary wings for airplanes. C. H. Gunn. 1,755,540; Apr. 22.
Conveyer and driving-motor construction. J. J. Mojonnier. 1,755,450; Apr. 22.
Conveyer for pulverized material. P. Goebels. 1,755,779; Apr. 22.
Coop, Collapsible poultry. W. W. Robinson. 1,755,227; Apr. 22.
Copper, Deoxidizing. C. S. Smith. 1,755,309; Apr. 22.
Copying machine. A. Pagani. 1,755,967; Apr. 22.
Cords or braids, Manufacture of tubular. R. L. G. Buraux and P. J. Massu. 1,755,809; Apr. 22.
Cost-accounting machine. J. W. Marder. 1,755,449; Apr. 22.
Cotton picker. E. A. Johnston, D. B. Baker, and C. R. Hagen. 1,755,825; Apr. 22.
Cotton-picker machine. H. A. Janacek. 1,755,507; Apr. 22.
Cotton picker, Mechanical. W. L. Turner. 1,755,230; Apr. 22.
Counter, Bank. P. A. Davis, 3d. 1,755,917; Apr. 22.
Counter, Display. S. G. Honstead. 1,755,782; Apr. 22.
Counter-molding apparatus. J. H. Scharffenberg. 1,755,900; Apr. 22.
Coupler. A. J. Bentley. 1,755,164; Apr. 22.
Coupling: *See*—
Rail coupling.
Couplings, Making. B. E. Dohner. 1,755,210; Apr. 22.
Cover, Dish. J. B. Zallio. 1,755,199–200; Apr. 22.
Cover hanger and plate-fastening device. W. M. Connery. 1,755,469; Apr. 22.
Cover, Self-basting. O. Tollagsen. 1,755,800; Apr. 22.
Covering, Floor. J. B. Campbell. 1,755,978; Apr. 22.
Crane, Portable. B. Stockdieth and F. W. Burger. 1,755,798; Apr. 22.
Crank-case ventilation. W. H. Moyse. 1,756,001; Apr. 22.
Culvert, Metallic. J. B. Chambers. 1,755,594; Apr. 22.
Current collector. J. M. Barr and H. L. Smith. 1,756,004; Apr. 22.
Curtain fixture. E. E. Whitmore. 1,755,282–3; Apr. 22.
Curtain operator, Motor-vehicle rear-. E. B. Hall. 1,755,734; Apr. 22.
Curtain-pole end piece. W. C. Astrup. Des. 80,994–5; Apr. 22.
Curtain rod or similar article. J. H. Boye. Des. 80,997; Apr. 22.
Cushioning device for marine propulsion. A. F. Masury. 1,755,549; Apr. 22.
Cutter: *See*—
Casing cutter. Onion cutter.
Heel cutter.
Cutter. E. Cheshire. 1,755,468; Apr. 22.
Cutting instrument, Adjustable. O. M. Bratrud. 1,755,535; Apr. 22.
Cutting machine, Household combination. J. L. Jackman. 1,755,446; Apr. 22.
Date indicator, Perpetual. K. Kluge and W. Berthold. 1,755,696; Apr. 22.
Demonstration device. C. Gant. 1,755,952; Apr. 22.
Dental blow torch. R. L. Hanau. 1,755,216; Apr. 22.
Desk protector. H. L. Todd. Des. 81,032; Apr. 22.
Detector: *See*—
Smoke detector.
Dial and hands for a timepiece, Combined. T. T. Wynn. Des. 81,038; Apr. 22.
Dial of a timepiece or similar article. T. T. Wynn. Des. 81,040; Apr. 22.

Die-beading machine, Open-. C. T. Brennan. 1,755,812; Apr. 22.
Dihydroxyacetone, Preparing. W. Lenz. 1,755,656; Apr. 22.
Dipper, Excavating. B. S. Ferguson. 1,755,438; Apr. 22.
Directional receiving, Arrangement for. A. Herzog. 1,755,180; Apr. 22.
Dish washing and drying machine, Combined. C. N. Gerosa. 1,755,539; Apr. 22.
Dispensing machine. A. L. Loehr. 1,755,699; Apr. 22.
Display cases and the like, Construction for. H. F. Keil. 1,755,880; Apr. 22.
Display device. F. Laroche. 1,755,607; Apr. 22.
Display form. L. W. Reinhardt. 1,755,794; Apr. 22.
Display machine. H. Armstrong. 1,755,761; Apr. 22.
Display rack, Portable. C. R. Seltzer. 1,755,615; Apr. 22.
Display revolving stand. J. Hunyady. 1,755,477; Apr. 22.
Distillation apparatus. J. A. Gibb. 1,755,778; Apr. 22.
Diving apparatus. G. Uhlig. 1,755,939; Apr. 22.
Dog-racing apparatus. W. R. Twiford and G. Oehler. 1,755,676; Apr. 22.
Domestic appliance. R. L. Lee. 1,755,481; Apr. 22.
Doorcheck. F. K. Eastman. 1,755,288; Apr. 22.
Door device, Car-. W. E. Wine. 1,755,529; Apr. 22.
Door expander. R. S. Heise. 1,755,691; Apr. 22.
Door handle or similar article for an automotive vehicle. W. Schnell. Des. 81,026; Apr. 22.
Door opener, Garage-. R. V. Morse. 1,755,788; Apr. 22.
Door-operating mechanism. S. B. Haseltine. 1,755,580–1; Apr. 22.
Door or gate operating device. E. R. Turner. 1,755,904; Apr. 22.
Dough-molding machine. R. Male. 1,755,963; Apr. 22.
Dowser or diaphragm for motion-picture apparatus. A. Dina. 1,755,175; Apr. 22.
Drier: *See*—
Glove drier.
Drills, Guide for rock. R. Griffith. 1,755,255; Apr. 22.
Dropper: *See*—
Hill dropper.
Drying. O. Söderlund and T. Gram. 1,755,373; Apr. 22.
Drying apparatus. T. W. Prosser. 1,755,334; Apr. 22.
Drying mechanism for garment presses, Air-. G. Parizot. 1,755,488; Apr. 22.
Drying of road-making aggregates and other broken or granular materials. J. F. Wake. 1,755,877; Apr. 22.
Dumping body. W. C. Anthony. 1,755,803; Apr. 22.
Dyeing cellulose esters or cellulose ethers. E. Fischer. 1,755,640; Apr. 22.
Dyeing, coloring, and coating, Apparatus for. P. Mijer, L. C. Scott, and G. S. Radford. 1,755,302; Apr. 22.
Dyestuff produced from aminobenzyl-ω-sulfonic acid and acid-substituted aromatic amines, Monazo. W. Duisberg, W. Hentrich, and L. Zeh. 1,755,871; Apr. 22.
Dyestuff, Vat. K. Schirmacher and K. Elshold. 1,755,667; Apr. 22.
Dyestuffs and making same, Indigoid. R. Stocker. 1,755,972; Apr. 22.
Dyestuffs derived from indoline bases and preparing same. O. Wahl. 1,755,678; Apr. 22.
Dynamometer. C. V. Temple. 1,755,849; Apr. 22.
Earpiece. A. C. Dunn. 1,755,775; Apr. 22.
Easel. E. M. Roberts. 1,755,518; Apr. 22.
Eaves-trough hanger. C. P. Mullen. 1,755,453; Apr. 22.
Elastic woven fabric. T. F. Moore. 1,755,787; Apr. 22.
Electric compensator. R. E. Bates. 1,755,345; Apr. 22.
Electric fixture. S. Sharlin. Des. 81,029; Apr. 22.
Electric machine, Alternating-current. H. de Pistoye. 1,755,815; Apr. 22.
Electric service connection. J. H. Cannon. 1,755,166; Apr. 22.
Electrical apparatus. J. H. Reyner, B. Wood, and A. H. Curtis. 1,755,934; Apr. 22.
Electrical distribution system. W. R. G. Baker. 1,755,859; Apr. 22.
Electrical flash light. J. J. Darlington. 1,755,472; Apr. 22.
Electrical installations against overvoltages, System for the protection of. G. Campos. 1,755,979; Apr. 22.
Electrical switch. G. O. Wilms. Re17,649; Apr. 22.
End gate and retaining means therefor. B. A. Smith. 1,755,672; Apr. 22.
Engine: *See*—
Internal-combustion engine. Reciprocating engine.
Engine provided with a piston and a connecting rod. J. Brons. 1,755,347; Apr. 22.
Envelope. H. C. Cox. 1,755,814; Apr. 22.
Esters of the borneols, Manufacture of. K. Stephan and F. Ulffers. 1,755,750; Apr. 22.
Esters of the barneols, Manufacturing. F. Ulffers. 1,755,752; Apr. 22.
Exterminator. W. Abby. 1,755,857; Apr. 22.
Extractor: *See*—
Continuous extractor.
Eye set. S. Marcus. 1,755,831; Apr. 22.
Fabric: *See*—
Elastic woven fabric. Knitted fabric.
Fabrics or webs into lapping machines, Appliance for automatically regulating the entrance of. E. Klein. 1,755,826; Apr. 22.
Fan. G. O. Bishop. 1,755,863; Apr. 22.
Fastener for belts and the like. J. C. Olsen. 1,755,304; Apr. 22.
Fastener, Lingerie. C. L. Fox. 1,755,291; Apr. 22.
Fastener, Separable. M. F. Carr. 1,755,591; Apr. 22.
Fastener, Wire. W. F. Monteith. 1,755,553; Apr. 22.
Fastening, Nut and screw. F. S. Carr. 1,755,590; Apr. 22.
Fastening, Ski. J. O. Jordell. 1,755,598; Apr. 22.
Feather renovator. C. R. Curtis. 1,755,471; Apr. 22.
Feeder, Animal. L. J. Schetti. 1,755,537; Apr. 22.
Feeder, Poultry. S. Bernard and W. J. Glenn. 1,755,532; Apr. 22.
Feeding and conveying apparatus. E. J. Watsl. 1,755,618; Apr. 22.
Fernery. A. F. Walkerdine. Des. 81,037; Apr. 22.
File. S. Anthony. 1,755,760; Apr. 22.
File. T. J. O'Connell. 1,755,407; Apr. 22.
Filter. F. B. Lomax. 1,755,482; Apr. 22.
Filter, Line. C. G. Hawley. 1,755,780; Apr. 22.
Filter, Oil. B. H. Carlisle. 1,755,912; Apr. 22.
Fire alarm, Automatic. P. F. Dodunski. 1,755,473; Apr. 22.
Fire extinguishers, Actuator for. H. W. Partlow. 1,755,835; Apr. 22.
Firing system, Director. E. A. Sperry and E. Meitner. 1,755,340; Apr. 22.
Fishing reel. W. Stanley. 1,755,195; Apr. 22.
Flame arrester. M. F. Yount. 1,755,624; Apr. 22.
Flatiron and stand, Combination. J. H. Wilson. 1,755,528; Apr. 22.
Floor drain and automatic flood protector. J. Olessko. 1,755,458; Apr. 22.
Fly exit. F. L. Hickel. 1,755,542; Apr. 22.
Foam generator. W. Palmer. 1,755,610; Apr. 22.
Foldable box. L. St. C. Cooper. 1,755,470; Apr. 22.
Foldable box. J. C. Heim. 1,755,690; Apr. 22.
Folder or container. A. J. Tanner. 1,755,375; Apr. 22.
Folding box. S. Bachmann. 1,755,722; Apr. 22.
Folding chair. W. C. Rastetter. 1,755,896; Apr. 22.
Food product. E. B. Brown, C. N. Frey, and H. H. Harkins. 1,755,864; Apr. 22.
Fork: *See*—
Garden fork.
Fountain: *See*—
Bird fountain.
Frame: *See*—
Locomotive frame.
Friction bodies, Manufacture of. H. Kattwinkel. 1,755,855; Apr. 22.
Fruit and similar articles, Apparatus for marking. H. G. Nutt and S. C. Bartholomew. 1,755,456; Apr. 22.
Fruit clipper. B. C. Ames. 1,755,417; Apr. 22.
Fuel composition. H. C. Williams. 1,755,282; Apr. 22.
Fuel-controlling device, Thermostatically-operated. H. W. O'Dowd. 1,755,188; Apr. 22.
Fuel heater. P. Soprani. 1,756,008; Apr. 22.
Fuel mixer. W. A. Edwards. 1,755,289; Apr. 22.
Fumigating device. H. A. Searle. 1,755,901; Apr. 22.
Furnace: *See*—
Air-heating furnace. Heating furnace.
Furnace attachment, Hot-air-. E. R. Nevel. 1,755,790; Apr. 22.
Furnace device for enhancing combustion of fuel. F. Leascewicz. 1,755,697; Apr. 22.
Furnace resistor, Electric. F. A. Fahrenwald. 1,755,350; Apr. 22.
Fuse, Combination. A. F. Teitscheid. 1,755,279; Apr. 22.
Fuse for submarine bombs. P. Schwenke. 1,755,797; Apr. 22.
Fuse, Renewable. F. C. Lavarack. 1,755,546; Apr. 22.
Fuse, Warning. L. D. Gannon. 1,755,642; Apr. 22.
Fuselage for aeroplanes. W. K. Dwelle. 1,755,211; Apr. 22.
Galvanizing. C. Pietsch. 1,755,559; Apr. 22.
Game. A. Gösser. 1,755,730; Apr. 22.
Game, Apparatus for playing a race. F. R. B. Whitehouse. 1,755,621; Apr. 22.
Game device, Front panel of a. D. C. Rockola. Des. 81,021; Apr. 22.
Game, Dictionary and educational. E. B. Waring. 1,755,853; Apr. 22.
Garden fork, Hand. H. T. Kingsbury. 1,755,651; Apr. 22.
Garment, Apparel. W. Kops. 1,755,827; Apr. 22.
Gas and electricity controlling device, Automatic. J. L. Bialack. 1,755,497; Apr. 22.
Gas feeder. N. A. Steed. 1,755,846; Apr. 22.
Gas producers, Centralized control for. C. H. Smoot. 1,755,567; Apr. 22.
Gate-operating mechanism. T. W. Brasell. 1,755,948; Apr. 22.
Gear, Adjustable silent. A. M. Alexandrescu. 1,755,945; Apr. 22.
Gear, Draft. W. H. Cotton. 1,755,429; Apr. 22.
Gear for aeroplane engines, Speed changing and reducing. M. J. Barbarou. 1,755,804; Apr. 22.
Gear housing, Cream-separator-. F. C. Sandstrom. 1,755,841; Apr. 22.
Gear shifter. A. M. Craig. 1,755,595; Apr. 22.
Generator: *See*—
Foam generator. Oscillation generator.
Generator and water heater, Steam. T. Clarkson. 1,755,949; Apr. 22.
Glass, Apparatus and method for drawing. A. E. Spinasse. 1,755,523; Apr. 22.
Glass, Cutting apparatus for sheet. C. A. Rowley. 1,755,365; Apr. 22.
Glass, Feeding molten. K. E. Peiler. 1,755,792; Apr. 22.
Glass plates, Removing defects of joinder from composite. J. H. Sherts and W. O. Lytle. 1,755,274; Apr. 22.

Glassware, Apparatus for handling. W. S. Mayers. 1,755,404; Apr. 22.
Glove drier. R. Knox. 1,755,605; Apr. 22.
Glove-drying rack. S. Tascarella. 1,755,902; Apr. 22.
Glowlamp, Method and apparatus of introducing and fusing in the leading-in wires into the tubular foot of an electric. B. Erber and F. Gantner. 1,755,983; Apr. 22.
Goffered article. E. O. Munktell. 1,755,744; Apr. 22.
Golf tee. T. H. Acaster. 1,755,344; Apr. 22.
Governor, Electric speed. W. E. Butler. 1,755,313; Apr. 22.
Granulated product and making same. H. C. Gardiner. 1,755,985; Apr. 22.
Grapple and basket for wagon-loading apparatus. E. W. Weed. 1,755,854; Apr. 22.
Grinding and separating materials, Method of and mechanism for. W. J. Clement. 1,755,573; Apr. 22.
Grinding machine. A. R. Berck. 1,755,862; Apr. 22.
Grinding machines, Work-clamping fixture for crank. A. P. Steiner. 1,755,937; Apr. 22.
Gun for applying mortar, Pneumatic. L. E. McCormack. 1,755,329; Apr. 22.
Gun sight. P. R. Dindinger. 1,755,635; Apr. 22.
Hair waves, Device for permanent. S. Lupes. 1,755,221; Apr. 22.
Hammer, Electric. L. G. Shook. 1,755,565; Apr. 22.
Hammer, Mechanical. A. Pfüger and K. Haage. 1,755,361; Apr. 22.
Hand bag. J. N. Lowe. 1,755,548; Apr. 22.
Hand for a timepiece or similar article. T. T. Wynn. Des. 81,039; Apr. 22.
Hand for a timepiece or similar article. T. T. Wynn. Des. 81,041; Apr. 22.
Handle: See—
Knife-handle. Mop handle.
Handle for automobile doors, Latch-operating. R. Marple. 1,755,833; Apr. 22.
Hanger: See—
Eaves-trough hanger. Map hanger.
Harrow. H. Stone. 1,755,229; Apr. 22.
Harvesters, Supporting and driving attachment for tractor-operated corn. W. R. Stanfield. 1,755,524; Apr. 22.
Hat. J. S. Marzak. 1,755,300; Apr. 22.
Hat. E. Wittcoff. 1,755,198; Apr. 22.
Heat-regulating device, Automatic. M. S. Runsvold. 1,755,612; Apr. 22.
Heater: See—
Air heater. Radiator heater.
Fuel heater.
Heater for permanent waving, Combination. J. C. Brown. 1,755,173; Apr. 22.
Heating apparatus. O. T. Buffalow. 1,755,204; Apr. 22.
Heating apparatus, Water-. H. M. Leavitt. 1,755,261; Apr. 22.
Heating element, Electric. K. C. MacNabb. 1,755,929; Apr. 22.
Heating furnace. H. Holiday, W. McKnight, and J. G. Christfield. 1,755,875; Apr. 22.
Heel cutter. H. E. Willis. 1,755,856; Apr. 22.
Heel-making machine, Wood-. R. F. Knigat. 1,755,400; Apr. 22.
Hill dropper. F. J. Boss. 1,755,498; Apr. 22.
Hoist. C. P. Ross. 1,755,840; Apr. 22.
Hoisting device. R. B. Coffman. 1,755,574; Apr. 22.
Holder, Bacon. C. C. Smith. 1,755,413; Apr. 22.
Holder, Bag. G. L. Weckert. 1,755,584; Apr. 22.
Holder, Blade. J. A. O'Neill. 1,755,791; Apr. 22.
Holder, Concrete-form. C. J. Kohler. 1,755,960; Apr. 22.
Holder, Fishhook. C. J. Townsend. 1,755,903; Apr. 22.
Holder, Flag. S. Smith. 1,755,372; Apr. 22.
Holder for pans and covers. R. A. Kottke. 1,755,654; Apr. 22.
Holder, Globe or shade. N. C. Petrillo. 1,755,836–7; Apr. 22.
Holder, Label. F. M. Zimmerman. 1,755,758; Apr. 22.
Holder, License-plate. D. D. Bast and H. C. Johnson. 1,755,625; Apr. 22.
Holder, Milk-container. M. Roman. 1,755,335; Apr. 22.
Holder, Pipe. W. L. Church. 1,755,572; Apr. 22.
Holder, Tool. G. C. Pearson. 1,755,269; Apr. 22.
Holder with feeding arrangement for the positive electrode of a searchlight. F. Meyer. 1,755,551; Apr. 22.
Homogenising mill. W. Eppenbach. 1,755,576; Apr. 22.
Hook: See—
Beehive-frame hook. Tire-chain hook.
Hoppers, Agitating means for. C. Taurialnen. 1,755,674; Apr. 22.
Horn, Sound-amplifying. H. C. Mueller. 1,755,931; Apr. 22.
Hot punching and shearing machine. J. Kurkowski. 1,755,994; Apr. 22.
Hub cap. R. E. Cochran. 1,755,427; Apr. 22.
Humidistat. R. B. Somers. 1,755,276; Apr. 22.
Hydraulic press. R. E. Manley. 1,755,403; Apr. 22.
Hydrocarbons, Cracking. E. C. Herthel. 1,755,600–1; Apr. 22.
Ice plant. G. B. Bright. 1,755,203; Apr. 22.
Index sheet and binding means therefor. L. C. Reynolds. 1,755,517; Apr. 22.
Indicator: See—
Date indicator.
Indicator system. W. W. Willard. 1,755,975; Apr. 22.
Inflatants, Reserve and conservation of. H. B. Moses. 1,755,359; Apr. 22.
Inhibitor material. L. J. Christmann. 1,755,812; Apr. 22.
Inner tubes, Apparatus for vulcanizing. E. Schnedarek. 1,755,563; Apr. 22.
Instrument case. H. Bartenbach. 1,755,171; Apr. 22.
Insulating device. W. Broad. 1,755,587; Apr. 22.
Insulator. E. C. Smalley. 1,755,971; Apr. 22.
Insulator shells, Apparatus for finishing. W. H. Smith. 1,755,308; Apr. 22.
Internal-combustion engine. N. C. Christensen. 1,755,501; Apr. 22.
Internal-combustion engine. R. H. Dibley. 1,755,817; Apr. 22.
Internal-combustion engine. H. L. Johnson. 1,755,260; Apr. 22.
Internal-combustion engine. A. J. Meyer. 1,755,998; Apr. 22.
Internal-combustion engine. L. M. Woolson. 1,755,942; Apr. 22.
Ironing table. J. Wallerstein. 1,755,617; Apr. 22.
Isonaphthysidin, Manufacture of a compound of. C. Räth. 1,755,515; Apr. 22.
Jack: See—
Lasting jack.
Jar cover or similar article. W. A. Boyd. Des. 80,966; Apr. 22.
Joint: See—
Artificial-limb joint. Ball joint.
Journal, Roller. M. Frisch. 1,755,250; Apr. 22.
Kerf cutter for mining apparatus. E. C. Morgan. 1,755,700; Apr. 22.
Knife-handle. O. Altenbach. 1,755,946; Apr. 22.
Knitted fabric. H. Rubenstein. 1,755,968; Apr. 22.
Knob. W. E. McCullough. 1,755,301; Apr. 22.
Lace. G. Radford. Des. 81,018; Apr. 22.
Ladle. W. H. Peirce. 1,755,411; Apr. 22.
Lamp base or similar article. J. Felek. Des. 81,001; Apr. 22.
Lamp or similar article. E. Laudel. Des. 81,011; Apr. 22.
Lamp or similar article, Floor. C. A. B. Halvorson. Des. 81,004; Apr. 22.
Lancet. C. Frederiksen. 1,755,777; Apr. 22.
Lapping and grinding device. J. W. Omey. 1,755,905; Apr. 22.
Lasting jack. H. G. Ellis. 1,755,246; Apr. 22.
Latch, Automobile door. J. B. Freysinger. 1,755,352; Apr. 22.
Latch, Door. R. Marple. 1,755,832; Apr. 22.
Latch, Secret-door. C. J. and C. G. Hagstrom. 1,755,892; Apr. 22.
Latex, Concentrating. H. W. Banks, 3d. 1,755,879; Apr. 22.
Lathe mechanism for oval turnings. M. Cassé. 1,755,349; Apr. 22.
Laundry appliance. W. E. Kerr. 1,755,508; Apr. 22.
Laundry-drum construction. P. C. Bruckmann and W. R. Hager. 1,755,867; Apr. 22.
Lavatory leg. H. R. Trout. Des. 81,034–5; Apr. 22.
Light: See—
Electrical flash light.
Lighter. L. V. Aronson. 1,755,494; Apr. 22.
Lighter, Pocket. A. Perrera. 1,755,748; Apr. 22.
Lighters, Pivotal wind screen for pyrophore cigar. A. Dubsky. 1,755,951; Apr. 22.
Lighting apparatus, Combination electric. F. E. Beidler. 1,755,385; Apr. 22.
Lighting, Color flood. P. M. Hotchkin. 1,755,298; Apr. 22.
Lighting-fixture arm or article of similar nature. B. E. Ulvad. Des. 81,036; Apr. 22.
Lighting fixture or article of similar nature. F. W. Boettges. Des. 81,022–3; Apr. 22.
Lighting fixture or article of similar nature. I. Rosenblatt. Des. 81,024; Apr. 22.
Lighting standard. R. W. Erskine. Des. 81,000; Apr. 22.
Lighting unit. C. F. Haas. Des. 81,003; Apr. 22.
Lightning arrester. E. H. Jacobs. 1,755,524; Apr. 22.
Liquid-distributing system. J. Bijur. 1,755,629; Apr. 22.
Liquids in measured quantities by volume, Apparatus for delivery. G. Wray. 1,755,756; Apr. 22.
Lock: See—
Nut lock. Security lock.
Permutation lock.
Lock. A. C. Stevens. 1,755,847; Apr. 22.
Lock and control means for doors, Remote. C. J. Andrews. 1,755,585; Apr. 22.
Lock for connecting pins or bolts. C. M. Hannaford. 1,755,874; Apr. 22.
Lock for motor vehicles. E. F. Roberts. 1,755,935; Apr. 22.
Locking device, Doorknob. E. Ellingson. 1,755,434; Apr. 22.
Locomotive. S. M. Vauclain. 1,755,974; Apr. 22.
Locomotive frame. B. K. Kirk. 1,755,925; Apr. 22.
Looms, Feeler motion for. F. Zwiebel. 1,755,907; Apr. 22.
Loud-speaker. W. Dubilier. 1,755,630; Apr. 22.
Loud-speaker. J. McW. Stone. Des. 81,030; Apr. 22.
Lubricator. O. E. Clark. 1,755,240; Apr. 22.
Lumber or wall board, Insulating. J. J. Hinde. 1,755,781; Apr. 22.
Machine for cutting irregular shapes. C. Mott. 1,755,789; Apr. 22.

Machine for folding tire bands. F. B. Pfeiffer. 1,755,933; Apr. 22.
Machine for forming hot metal. A. O. Herron. 1,755,323; Apr. 22.
Machine for making annular pieces of candy. E. C. Miller. 1,755,263; Apr. 22.
Machine for making round articles. F. J. Sévigné. 1,755,749; Apr. 22.
Machine for making vacuum bottles and the like. E. H. Rohl. 1,755,807; Apr. 22.
Machine for plucking poultry. R. W. Richards. 1,755,665; Apr. 22.
Machine for the manufacture of hollow blown-glass articles. S. Hunt. 1,755,957; Apr. 22.
Mail exchange, Aerial. L. C. Ashley and W. B. Bahn. 1,755,235; Apr. 22.
Map finder. F. Mattenklott. 1,755,742; Apr. 22.
Map hanger. G. T. Robinson. 1,755,897; Apr. 22.
Marble, Producing artificial. J. Kneifl. 1,755,899; Apr. 22.
Marginal strips to articles, Apparatus for applying. C. W. Leguillon and J. R. Gammeter. 1,755,926; Apr. 22.
Marker, Upright highway. M. E. Hartzler and E. P. Romilly. 1,755,448; Apr. 22.
Massaging device. A. B. S. Stanley. 1,755,936; Apr. 22.
Mattress and cushion. L. A. Suekoff. 1,755,715; Apr. 22.
Mattress and like structure. M. F. Bayer. 1,755,805; Apr. 22.
Mattress and making same. L. A. Suekoff. 1,755,714; Apr. 22.
Mattress, Pneumatic. J. A. Christensen. 1,755,205; Apr. 22.
Mattress, Spring-filled. L. A. Suekoff. 1,755,713; Apr. 22.
Measuring instrument. C. G. Hershey. 1,756,005; Apr. 22.
Measuring level differences, Device for. E. Dietze. 1,755,244; Apr. 22.
Measuring machine. J. M. Benjamin. 1,755,172; Apr. 22.
Meat-curing apparatus. A. E. Ozouf. 1,755,966; Apr. 22.
Meat-curing method. R. E. Jordan. 1,755,992; Apr. 22.
Merry-go-round. O. J. Watts. 1,755,940; Apr. 22.
Metal and making the same, Coated. F. W. De Jahn and J. G. Dely. 1,755,686; Apr. 22.
Metals, Apparatus for normalising and pickling. F. J. Winder. 1,755,755; Apr. 22.
Metals, Electrolytic production of light. E. O. Barstow. 1,755,380; Apr. 22.
Metals from ores or the like, Recovering volatilizable. H. Stephani. 1,755,712; Apr. 22.
Metals, Producing composite. H. L. Coles. 1,755,913; Apr. 22.
Meter. H. G. Weymouth. 1,755,905; Apr. 22.
Meter box. F. C. Hush. 1,755,444; Apr. 22.
Meter for radio apparatus, Prepayment. G. J. Zisch. 1,755,681; Apr. 22.
Microscope, Pocket. K. Ahmels and L. Ohm. 1,755,759; Apr. 22.
Mill: See—
Homogenizing mill.
Mills, Automatic feeder for. W. A. Seymour. 1,755,490; Apr. 22.
Mining and loading apparatus. E. C. Morgan. 1,755,332; Apr. 22.
Mixer: See—
Fuel mixer.
Mixing machines, Door-operating mechanism for. A. C. Christensen. 1,755,426; Apr. 22.
Modulation, System of. J. C. Koaitzky. 1,755,739; Apr. 22.
Mold charges, Method and apparatus for retarding freely-falling. A. B. Hunter. 1,755,397; Apr. 22.
Molding machine. J. T. Ramsden. 1,755,704; Apr. 22.
Molding machine. H. Sonnenberg. 1,755,374; Apr. 22.
Molding machine. F. R. Wallace. 1,755,679; Apr. 22.
Mop handle. J. S. Roux. 1,755,363; Apr. 22.
Mounting for advertising plaques. H. B. Minnick. 1,755,222; Apr. 22.
Mower drive, Lawn-. J. C. Slonneger. 1,755,844; Apr. 22.
Mower guard. L. J. Borkhuis, jr. 1,755,534; Apr. 22.
Mower, Power-driven lawn. A. E. Jerram. 1,755,958; Apr. 22.
Mowing machines, Divider for. W. C. Jackson. 1,755,506; Apr. 22.
Muffler and air heater, Combined. R. H. and S. E. Keagle. 1,755,924; Apr. 22.
Nail-driving mechanism, Compensating device for. H. Paxton. 1,755,225; Apr. 22.
Nailing machine, Hardwood-floor-. W. W. Vilneau and E. Chittenden. Re17,651; Apr. 22.
Necktie hanger. J. C. Salzman. Des. 81,025; Apr. 22.
Nozzle for sand-blast apparatus. W. Eckler. 1,755,575; Apr. 22.
Nut-forging machine. J. A. Kinney. 1,755,225; Apr. 22.
Nut, Lock. G. I. Boles. 1,755,807; Apr. 22.
Nut lock. A. J. Elias. 1,755,245; Apr. 22.
Oil burner. G. E. Jacobson. 1,755,602; Apr. 22.
Oil-refining device. E. L. Gross. 1,755,440; Apr. 22.
Oiler, Road. W. T. Thompson. 1,755,376; Apr. 22.
Onion cutter. A. Felardo. 1,755,351; Apr. 22.
Ophthalmic mountings, Making. L. O. Gagnon. 1,755,292; Apr. 22.
Optical instrument, Diagnostic. J. E. Reid. 1,755,705; Apr. 22.
Ores and recovering by-products therefrom, Process of and apparatus for smelting. F. T. Snyder. 1,755,845; Apr. 22.
Ores, Device for conditioning. J. P. Ruth, jr. 1,755,278; Apr. 22.
Ornamental device for automobile radiators. F. J. Budde. 1,755,630; Apr. 22.
Oscillation generator, Piezo-electric. J. M. Miller. 1,756,000; Apr. 22.
Outlet for baseboard raceways. P. H. Lacey. 1,755,545; Apr. 22.
Oven, Coking retort. J. Becker. 1,755,381–3; Apr. 22.
Overshoe skid. J. S. Capen. 1,755,348; Apr. 22.
Oxides of metals by hydrolysis, Production of amphoteric hydrated. R. H. Monk. 1,755,512; Apr. 22.
Oxy salts of arsenic, antimony, and tin, Treating mixtures of. M. F. Perkins, C. W. Hanson, and B. M. O'Harra. 1,756,007; Apr. 22.
Package and display rack therefor, Merchandise. L. N. Levinsohn. 1,755,927; Apr. 22.
Packing and display box. A. E. Keppler. 1,755,693–4; Apr. 22.
Packing machinery. W. E. Molina. 1,755,659; Apr. 22.
Padlock, Permutation. B. C. Smith. 1,755,521; Apr. 22.
Paint, Textile. L. C. Lordly. 1,755,658; Apr. 22.
Pan and bottle holder, Sterilizing. F. A. Armstrong. 1,755,426; Apr. 22.
Paper clip, Reversible. K. P. Durham. 1,755,915; Apr. 22.
Paper product. P. B. Ganzinotti. 1,755,818; Apr. 22.
Paper, Wall. E. A. Haward. Des. 81,006; Apr. 22.
Parachute. M. G. Güede and J. Cutin. 1,755,954; Apr. 22.
Parachute pack. F. Smith. 1,755,414; Apr. 22.
Pastry cup. E. Hamwi. Des. 81,005; Apr. 22.
Pavements, Expansion joint in concrete. J. H. Knox. 1,755,219; Apr. 22.
Pen, Fountain. E. C. Berry. 1,755,536; Apr. 22.
Pen or similar article, Fountain. M. Gold. Des. 81,002; Apr. 22.
Pencil. E. Klagges. 1,755,326; Apr. 22.
Pencil and sharpener. B. D. Levi. 1,755,509; Apr. 22.
Permutation lock. K. Litzelberger. 1,755,996; Apr. 22.
Phonograph pick-up. O. B. Parker. 1,756,012; Apr. 22
Photographer's flash gun. H. R. Stott. 1,755,707; Apr. 22.
Photographic copies for facsimile transmission, Correcting. R. H. Ranger. 1,755,561; Apr. 22.
Picker: See—
Cotton picker.
Pickling apparatus. S. L. Williams. 1,755,719; Apr. 22.
Picture theater, Miniature motion-. A. F. Victor. 1,755,280; Apr. 22.
Pile fabric. W. Reiss. Des. 81,042; Apr. 22.
Pin: See—
Clamping pin.
Pin for chain belts, Upset lock. E. W. Goeser. 1,755,252; Apr. 22.
Pipe-anchoring means. V. H. Harbert. 1,755,394; Apr. 22.
Pipe mechanism, Supporting means for flexible. E. H. Gold. 1,755,254; Apr. 22.
Pipe-painting machine. R. E. Janes. 1,755,877; Apr. 22.
Pipes, tubes, and other hollow bodies, Lining of iron and steel. N. S. Dewey. 1,755,634; Apr. 22.
Piston, Internal-combustion-engine. H. A. Soulis. 1,755,711; Apr. 22.
Piston, Internal-combustion-engine. H. A. and W. T. Soulis. 1,755,710; Apr. 22.
Piston ring. J. Magee. 1,755,402; Apr. 22.
Piston ring. D. M. Solenberger. 1,755,673; Apr. 22.
Piston-ring, Clamp. R. Grover. 1,755,294; Apr. 22.
Pitting fruit. A. Gotelli. 1,755,872; Apr. 22.
Plant culture, Apparatus for. C. F. Irish. 1,755,445; Apr. 22.
Plastic process. W. A. Boughton. 1,756,010; Apr. 22.
Plate catcher. F. R. Krause and R. C. Stiefel. 1,755,356; Apr. 22.
Plow attachment. B. D. Whitley. 1,755,622; Apr. 22.
Plow, Ditching. S. O. Martin and E. H. Bridenbaugh. 1,755,885; Apr. 22.
Plow, Steam-operated ice and snow. R. Klima and H. Reischenbacher. 1,755,695; Apr. 22.
Plow, Tractor. T. Brown and C. G. Strandlund. 1,755,808; Apr. 22.
Plow, Two-way tractor. W. S. Graham. 1,755,810; Apr. 22.
Pole reenforcement. G. B. Spring. 1,755,461; Apr. 22.
Pot press, Filter-. L. S. Hubbert. 1,755,353; Apr. 22.
Pouches, wallets, and all kinds of leather containers, Fastening for. W. C. Hlering. 1,755,296; Apr. 22.
Power appliance. L. C. Upton and G. B. Keil. 1,755,973; Apr. 22.
Power shears. F. A. Miller. 1,755,511; Apr. 22.
Power take-off, Transm'ssion. J. R. Hicks. 1,755,295; Apr. 22.
Press: See—
Hydraulic press. Pot press.
Pressing-machine element for pressing machines. E. Davis. 1,755,773; Apr. 22.
Priming mixture. J. D. McNutt. 1,755,830; Apr. 22.
Printer, Optical. F. H. Owens. 1,755,487; Apr. 22.
Printer's galley. J. E. Lee. 1,755,262; Apr. 22.
Printing device. E. F. Richter. 1,755,838; Apr. 22.
Products from Montan wax, Production of valuable. W. Pungs and M. Jahrstorfer. 1,755,189; Apr. 22.

Propeller, Screw. E. A. Dehmer. 1,755,633; Apr. 22.
Protective device. H. C. Singleton. 1,755,970; Apr. 22.
Protector, Back and chest. J. Black. 1,755,533; Apr. 22.
Pulveriser attachment for corn planters. C. Rosen. 1,755,271; Apr. 22.
Pump. L. M. Persons. 1,755,611; Apr. 22.
Pump. H. F. Schmidt. Re17,648; Apr. 22.
Pump and motor unit for refrigerating machines. B. Bischof. 1,755,910; Apr. 22.
Pump, Built-up standing-column. P. H. Bray. 1,755,421; Apr. 22.
Pump, Centrifugal. O. Jacobsen. 1,755,217; Apr. 22.
Pump, Deep-well. H. Paterson. 1,755,661; Apr. 22.
Pump, Differential Vacuum. D. N. Crosthwait, jr. 1,755,430; Apr. 22.
Pump for oil well. R. G. Hawley. 1,755,990; Apr. 22.
Pump, Grease. W. F. Clark. 1,755,684; Apr. 22.
Pump, Oil. E. P. Reynolds. 1,755,516; Apr. 22.
Pump or engine construction. C. A. Anderson. 1,755,160; Apr. 22.
Pump or pulsator, Vacuum. L. Dinesen. 1,755,318; Apr. 22.
Rack: *See*—
Display rack. Glove-drying rack.
Radiator meter. P. P. Carbt. 1,755,174; Apr. 22.
Radiator shield. H. W. Smith. 1,755,370; Apr. 22.
Radio broadcast distributing system. E. E. Clement. 1,755,980; Apr. 22.
Rail bond. W. P. Bovard. 1,755,466; Apr. 22.
Rail bond. R. Goodyear. 1,755,439; Apr. 22.
Rail-bonding means. R. Bömig. 1,755,765; Apr. 22.
Rail coupling. J. W. Palmer. 1,755,224; Apr. 22.
Rail joint. C. Furnari, T. Basile, and R. Sciotto. 1,755,920; Apr. 22.
Railroad crossing, Highway. C. M. Lish. 1,755,698; Apr. 22.
Rail tie and fastening means. J. Vavories. 1,755,196; Apr. 22.
Rails, Means to prevent battering of new. J. E. Busby. 1,755,911; Apr. 22.
Rake and snow shovel, Combination. J. P. Kinsley. 1,755,652; Apr. 22.
Razor, Safety. F. O. Conill. 1,755,726; Apr. 22.
Receptacle for smoker's use and articles. G. E. Thompson. Des. 81,031; Apr. 22.
Reciprocating engine. W. E. Goldsborough. 1,755,578; Apr. 22.
Record, Phonograph disk. E. H. Morrison. 1,755,743; Apr. 22.
Recorder: *See*—
Surge recorder. Time recorder.
Rectifier system. A. Gaudenzi. 1,755,320; Apr. 22.
Reel: *See*—
Fishing reel.
Reflector, Reversible rear-view. F. F. Linn and J. Negles. 1,755,740; Apr. 22.
Refrigeration. S. C. Carney. 1,755,810; Apr. 22.
Refrigerator, Show case. F. C. Becker. 1,755,384; Apr. 22.
Register: *See*—
Autographic register. Cash register.
Registering device. W. A. Lamb. 1,755,995; Apr. 22.
Regulator for power-factor improving apparatus, Automatic. V. F. Spigai. 1,755,491; Apr. 22.
Relay, Direct-current. J. V. Breisky. 1,755,766; Apr. 22.
Relay, Thermal overload. H. L. Van Valkenburg. 1,755,231; Apr. 22.
Rerailing device. O. E. M. Lopez. 1,755,510; Apr. 22.
Rheostat and potentiometer. A. J. Carter. 1,755,314; Apr. 22.
Rim lug. M. Gzupkaytie. 1,755,732; Apr. 22.
Ring: *See*—
Piston ring.
Road builder, ditcher, and brush breaker, Combined. S. H. Burnstad. 1,755,467; Apr. 22.
Road form. J. N. Heltzel. 1,755,541; Apr. 22.
Road parting strip. A. A. Kramer. 1,755,480; Apr. 22.
Road-smoothing machine. R. A. Burnett. 1,755,631; Apr. 22.
Rod: *See*—
Connecting rod.
Rod spider. H. W. Goetz and R. C. Clark. 1,755,986; Apr. 22.
Roller arrangement for printing presses. W. J. Strain. 1,755,278; Apr. 22.
Roofing to roofs, Fastening roll. A. H. Draughon, jr. 1,755,538; Apr. 22.
Rotary motion into an alternating motion with different speeds in two directions. Device for transforming a uniform. G. Colucci. 1,755,914; Apr. 22.
Rotor winding and mounting end rings. F. Adams. 1,755,283; Apr. 22.
Rowing apparatus. A. E. Hecox. 1,755,922; Apr. 22.
Rubber dispersion, Production of aqueous. W. B. Pratt. 1,755,892; Apr. 22.
Rubber emulsion and producing the same, Aqueous. W. B. Pratt. 1,755,890; Apr. 22.
Rubber, Treatment of. P. I. Murrill and W. W. Evans. 1,755,703; Apr. 22.
Sample tube. A. B. Cunningham. 1,755,285; Apr. 22.
Sanding apparatus, Track-. J. Gapp. 1,755,643; Apr. 22.
Sanding appliance for use with locomotives. J. E. Connellee. 1,755,428; Apr. 22.
Sanding device for vehicles. L. L. Hopkins. 1,755,823-4; Apr. 22.
Saw. K. Wagner. 1,755,717; Apr. 22.
Saw-filing stand. R. J. Stiffemire. 1,755,415; Apr. 22.
Sawing machines, Jointer attachment for portable. D. F. Printz. 1,755,894; Apr. 22.
Scale. L. Jaenichen. 1,755,478; Apr. 22.
Scale. B. W. King. Des. 81,009; Apr. 22.
Scale. W. F. Stimpson and W. E. Finch. 1,755,751; Apr. 22.
Screen: *See*—
Window screen.
Screw driver and making the same. W. F. Hobbs. 1,755,822; Apr. 22.
Screw holder and driver. C. W. Bronk. 1,755,588; Apr. 22.
Seat accessory, Toilet-. J. N. and M. N. Barker. Re17,645; Apr. 22.
Seat structure. R. K. Merrill and F. J. Blakslee. 1,755,997; Apr. 22.
Security lock. C. G. L. Sjölander. 1,755,339; Apr. 22.
Seeds, Method of and apparatus for separating. W. A. Rice. 1,755,747; Apr. 22.
Self-cleaning, sorting, and sifting machine. F. P. Ryder. 1,755,336; Apr. 22.
Separating and grading machine. P. C. Staup. 1,755,277; Apr. 22.
Separator. E. S. Royer. 1,755,364; Apr. 22.
Separator louver. J. P. Walker. 1,755,527; Apr. 22.
Shade, Lamp. F. Kesselring. 1,755,737; Apr. 22.
Shaft-advancing mechanism for use in hobbing long multiple grooves in shafts. U. S. Eberhardt. 1,755,916; Apr. 22.
Shaft protector and manufacturing the same. H. Christophersen. 1,755,387; Apr. 22.
Shaping machine. A. Barba. 1,755,860; Apr. 22.
Sharpener, Disk. C. W. Skow. 1,755,492; Apr. 22.
Shears: *See*—
Power shears.
Sheet-feeding mechanism. A. E. Petersen. 1,755,662; Apr. 22.
Sheet material, Machine for manufacturing articles from. J. H. Richardson. 1,755,191; Apr. 22.
Shell, Self-drilling expansion. J. H. Phillips. 1,755,489; Apr. 22.
Shock absorber. E. Floor and E. Sejersen. 1,755,290; Apr. 22.
Shock-absorber means for vehicles. E. F. Cowley. 1,755,685; Apr. 22.
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Steam cleansing device for locomotive and similar boilers. C. A. A. Westerberg. 1,755,855; Apr. 22.
Steering device. A. I. Linden. 1,755,299; Apr. 22.
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Sucker-rod guide and cleaner. J. C. Armstrong. 1,755,762; Apr. 22.
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Wheel head and the like. W. Le R. Brayant. 1,755,238; Apr. 22.
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CLASSIFICATION OF PATENTS

ISSUED APRIL 22, 1930

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U. S. GOVERNMENT PRINTING OFFICE: 1930

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS

Adam & Eve Beverage Company. (See Hemm, Edna I.)
Akron Candy Company, Akron, Ohio. Candy bars. 270,137; Apr. 29; Serial No. 287,395; published Feb. 18, 1930. Class 46.
Alco-Gravure, Incorporated, New York, N. Y. Writing and printing inks. 270,240–1; Apr. 29. Class 11.
Allbestos Corporation, Philadelphia, Pa. Brake linings. 270,086; Apr. 29; Serial No. 293,613; published Feb. 18, 1930. Class 35.
Allbestos Corporation, Philadelphia, Pa. Brake linings. 270,163; Apr. 29; Serial No. 292,963; published Feb. 18, 1930. Class 35.
Ambry, Wm. C., Jersey City, N. J. Salve used for pains and sprains. 270,278; Apr. 29. Class 6.
American Brake Materials Corporation, New York, N. Y. Composition frictional elements for brakes. 270,256; Apr. 29. Class 35.
American Hosiery Mills, Burlington, N. C. Hosiery. 270,193; Apr. 29; Serial No. 285,545; published Feb. 11, 1930. Class 39.
American Milk Products Corporation, New York, N. Y. Condensed and evaporated milk. 270,132; Apr. 29; Serial No. 294,134; published Feb. 11, 1930. Class 46.
American Oven & Machine Co., Chicago, Ill., assignor to American Machine & Foundry Company, New York, N. Y. Dough-mixing machines and parts thereof. 270,138; Apr. 29; Serial No. 286,851; published Feb. 18, 1930. Class 23.
American Wurtzilite Company, Chicago, Ill. Paints. 270,196; Apr. 29; Serial No. 292,707; published Feb. 4, 1930. Class 16.
Anna Products Corporation, Anna, Ill. Coffee. 270,105; Apr. 29; Serial No. 277,743; published Feb. 11, 1930. Class 46.
Ashtabula Growers Association, Ashtabula, Ohio. Fresh vegetables. 270,081; Apr. 29; Serial No. 294,288; published Feb. 18, 1930. Class 46.
Ault-Williamson Shoe Co., Auburn, Me. Boots, shoes, slippers, and pumps. 270,249; Apr. 29. Class 39.
Bamberger, L., & Co., Newark, N. J. Awnings, blackboards, bottle caps, etc. 270,179; Apr. 29; Serial No. 290,289; published Feb. 18, 1930. Class 50.
Banner Creamery Company, The, doing business as Banner Creamery Co., St. Louis, Mo. Ice cream. 270,239; Apr. 29. Class 46.
Baskind, Louis, & Co., Inc., New York, N. Y. Shirts and pajamas. 270,153; Apr. 29; Serial No. 289,262; published Feb. 11, 1930. Class 39.
Bass, Henry R., doing business as De Vlish Good Co., Kansas City, Mo. Dry-cleaning liquid. 270,191; Apr. 29; Serial No. 287,106; published Feb. 4, 1930. Class 4.
Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 270,242; Apr. 29. Class 17.
Bedford Johnson Co., Inc., New York, N. Y. Trousers. 270,152; Apr. 29; Serial No. 290,878; published Feb. 11, 1930. Class 39.
Belgau, Robert C., Miami, Fla. Coin-operated electric sound moving-picture machines and parts thereof, cameras, photographic lenses, etc. 270,158; Apr. 29; Serial No. 289,176; published Feb. 18, 1930. Class 26.
Bernstein, Irving, doing business as Irbee Products Company, Brooklyn, N. Y. Medicinal preparations. 270,099; Apr. 29; Serial No. 293,817; published Feb. 11, 1930. Class 6.
Betzold Brothers, Inc., Philadelphia, Pa. Preparation for softening fur garments. 270,098; Apr. 29; Serial No. 293,818; published Feb. 11, 1930. Class 6.
Boag, Incorporated, River Forest, Ill. Toilet soap in cakes and tubes. 270,129; Apr. 29; Serial No. 293,513; published Feb. 11, 1930. Class 4.
Bowers, Edward C., and Charles L. Feldman, receivers for Wickwire Spencer Steel Company, New York, N. Y. Radiator cabinets and shields. 270,087; Apr. 29; Serial No. 293,512; published Feb. 18, 1930. Class 32.
Boye Needle Co., The, Chicago, Ill. Stainless steel spoons, skimmers, forks, pancake turners, spatulas, and knives. 270,294; Apr. 29. Class 23.
Brand, Charles, doing business as Rosenberg & Brand, New York, N. Y. Hosiery. 270,223; Apr. 29; Serial No. 283,247; published Feb. 18, 1930. Class 39.
Brittain, John S., Dry Goods Company, St. Joseph, Mo. Overalls, denim jackets, shirts, etc. 270,146; Apr. 29; Serial No. 292,715; published Feb. 11, 1930. Class 39.
Brossell, I. V. (See Instant Freezer Corporation, The, assignor.)
Bruning, Charles, Company, Inc., New York, N. Y. Blueprint papers and cloth, black-print papers and cloth, etc. 270,162; Apr. 29; Serial No. 285,245; published Feb. 4, 1930. Class 26.
Buchman, L., Co. Inc., The, Brooklyn, N. Y. Pillows and cushions. 270,140; Apr. 29; Serial No. 286,152; published Feb. 18, 1930. Class 32.
Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft, Berlin, Germany. Cardiacum, asthmaticum, and preparation for preventing coagulation of blood. 270,234; Apr. 29; Serial No. 288,741; published Feb. 11, 1930. Class 6.

Cambern Corporation, Spokane, Wash. Bread, cakes, pies, etc. 270,218; Apr. 29; Serial No. 280,891; published Feb. 11, 1930. Class 46.
Cameron, William J., doing business as Cameron Electromaton Co., Chicago, Ill. Safety-razor blades. 270,088; Apr. 29; Serial No. 293,208; published Feb. 18, 1930. Class 23.
Cannon, Lavina, Greenville, Pa. Salve. 270,109; Apr. 29; Serial No. 289,917; published Feb. 11, 1930. Class 6.
Carlton Mills, Inc., New York, N. Y. Work shirts, sport shirts, and jackets. 270,165; Apr. 29; Serial No. 275,825; published Feb. 11, 1930. Class 39.
Carson, L. R., Hampton, Va. Fresh sea food and canned oysters. 270,283; Apr. 29. Class 46.
Carson Pirie Scott & Co., Chicago, Ill. Aprons. 270,110; Apr. 29; Serial No. 293,770; published Feb. 18, 1930. Class 39.
Carson Pirie Scott & Co., Chicago, Ill. Coats. 270,168; Apr. 29; Serial No. 267,536; published Feb. 18, 1930. Class 39.
Charles of the Ritz, New York, N. Y. Hair dye, hair oil, waving lotions, astringents, etc. 270,173; Apr. 29; Serial No. 262,292; published Feb. 11, 1930. Class 6.
Charter Oak Brush Company, The, Hartford, Conn. Mops, brushes, brooms, etc. 270,200–1; Apr. 29; Serial Nos. 292,977–8; published Feb. 18, 1930. Class 29.
Clearskin Laboratories, Inc. (See Goldenberg, Benjamin B.)
Cloran, Henry, Ambleside, England. Antidazzle devices for attachment to goggles, spectacles, and the like. 270,169; Apr. 29; Serial No. 292,601; published Feb. 18, 1930. Class 26.
Close, George, Co., The, doing business as Close's, Cambridge, Mass. Candy. 270,083; Apr. 29; Serial No. 293,959; published Feb. 18, 1930. Class 46.
Cluett, Peabody & Co., Inc., Troy, N. Y. Collars, negligee, and dress shirts. 270,265; Apr. 29. Class 39.
Cobbs, Ansalem O., doing business as Cobbs Manufacturing Co., Des Moines, Iowa. Automobile operator's credentials holder. 270,272; Apr. 29. Class 3.
Collazo, Angel G., Buenos Aires and Rosario de Santa Fe, Argentine Republic. Medicinal pills, laxatives, and purgative pills, etc. 270,275; Apr. 29. Class 6.
Columbia Match Company, Cleveland, Ohio. Matches. 270,114–15; Apr. 29; Serial Nos. 293,716–17; published Feb. 18, 1930. Class 9.
Columbia Match Company, Cleveland, Ohio. Matches. 270,116; Apr. 29; Serial No. 293,714; published Feb. 18, 1930. Class 9.
Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Carbon paper. 270,207; Apr. 29; Serial No. 291,907; published Feb. 18, 1930. Class 11.
Comstock, Andrew W., doing business as 2 Minit Laboratories, Chicago, Ill. Combination nonlather shaving and roll-out massage cream. 270,280; Apr. 29. Class 4.
Cornell Shoe Co., Inc., New York, N. Y. Shoes. 270,287; Apr. 29. Class 39.
Couch & Dean, Inc., New York, N. Y. Dishwashing apparatus. 270,122; Apr. 29; Serial No. 294,624; published Feb. 18, 1930. Class 23.
Creo-Dipt Company, Inc., North Tonawanda, N. Y. Putty or puttylike material. 270,128; Apr. 29; Serial No. 293,519; published Feb. 11, 1930. Class 16.
Creo-Dipt Company, Inc., North Tonawanda, N. Y. Plaster or cementitious material. 270,235; Apr. 29; Serial No. 293,520; published Feb. 11, 1930. Class 12.
Crystal Chemical Company, Inc., The, Bronx, N. Y. Face powders. 270,204; Apr. 29; Serial No. 292,439; published Feb. 11, 1930. Class 6.
Davey Tree Expert Co., The, Kent, Ohio. Manure. 270,267; Apr. 29. Class 10.
Davies, Claude M., London, England. Substitute for glass. 270,210; Apr. 29; Serial No. 289,877; published Feb. 18, 1930. Class 50.
Derrenbacher, Wm., Inc., Brooklyn, N. Y. Candy. 270,139; Apr. 29; Serial No. 286,228; published Feb. 18, 1930. Class 46.
Detroit Graphite Company, Detroit, Mich. Ready-mixed paint. 270,108; Apr. 29; Serial No. 293,962; published Feb. 11, 1930. Class 16.
De Vlish Good Co. (See Bass, Henry R.)
Dorn, Morita V., Westwood, Calif. Liquid—namely, oil and perfume for baths. 270,274; Apr. 29. Class 6.
Durand, Harriet B., Rochester, N. Y. Analgesic. 270,283; Apr. 29; Serial No. 288,181; published Feb. 11, 1930. Class 6.
Easterwood, Wm. E., jr., doing business as Wm. E. Easterwood, Jr., Co., Dallas, Tex. Listerated gum. 270,289; Apr. 29. Class 46.
Evergreen Products Company, Tampa, Fla. Fertilizer. 270,212; Apr. 29; Serial No. 291,253; published Feb. 18, 1930. Class 10.
Everson, Archie R., Newark, N. J. Hand soap, shaving cream, liquid soap, etc. 270,181; Apr. 29; Serial No. 291,719; published Feb. 11, 1930. Class 4.

Falfurrias Chemical Company, Falfurrias, Tex. Hair tonic. 270,198; Apr. 29; Serial No. 290,014; published Feb. 11, 1930. Class 6.
Faught, Louise M., Brooklyn, N. Y. Preparation for the relief of colds, etc. 270,254; Apr. 29. Class 6.
Feinstein, P., & Sons, New York, N. Y. Suits and overcoats. 270,186; Apr. 29; Serial No. 290,348; published Feb. 18, 1930. Class 39.
Feinstein, P., & Sons, New York, N. Y. Men's clothes. 270,187; Apr. 29; Serial No. 290,347; published Feb. 18, 1930. Class 39.
Fertel, Harry D., New York, N. Y. Coats, particularly fur and leather coats for men, women, and children. 270,257; Apr. 29. Class 39.
Fifield, Ltd., Chicago, Ill. Men's and boys' hats and caps. 270,094; Apr. 29; Serial No. 294,044; published Feb. 18, 1930. Class 39.
Fischer, B., & Co., Inc., New York, N. Y. Coffee. 270,225; Apr. 29; Serial No. 284,396; published Feb. 11, 1930. Class 46.
Fisher, Nannie H., doing business as The Panola Co., Ruxton, Md. Sauce to be served with hot and cold meats, etc. 270,095; Apr. 29; Serial No. 293,963; published Feb. 11, 1930. Class 46.
Fitger Company, The, Duluth, Minn. Nonalcoholic malt cereal beverage. 270,127; Apr. 29; Serial No. 293,576; published Feb. 18, 1930. Class 48.
Forest City Mfg. Co., St. Louis, Mo. Dresses and smocks. 270,190; Apr. 29; Serial No. 287,130; published Feb. 18, 1930. Class 39.
Friedman, I. M., & Co., Inc., New York, N. Y. Printed piece goods made from silk, cotton, rayon, and wool. 270,273; Apr. 29. Class 42.
General Electric Company, Schenectady, N. Y. Cleaning compound for metals. 270,106; Apr. 29; Serial No. 293,996; published Feb. 11, 1930. Class 4.
General Talking Pictures Corporation, New York, N. Y. Sound-picture apparatus. 270,284; Apr. 29. Class 26.
Gertz, B., Incorporated, Jamaica, N. Y. Dresses and coats. 270,206; Apr. 29; Serial No. 291,975; published Feb. 18, 1930. Class 39.
Giles, Howard G., New York, N. Y. Shirts. 270,185; Apr. 29; Serial No. 290,402; published Feb. 18, 1930. Class 39.
Glorious Dresses, Inc., New York, N. Y. Dresses. 270,113; Apr. 29; Serial No. 293,725; published Feb. 18, 1930. Class 39.
Goldenberg, Benjamin B., doing business as Clearskin Laboratories, Inc. New York, N. Y. Face cream. 270,263; Apr. 29. Class 6.
Goldschmidt, J. D., doing business as The Milk Maid Chocolate Company, Milwaukee, Wis. Fountain syrup. 270,121; Apr. 29; Serial No. 293,319; published Feb. 18, 1930. Class 45.
Goldson, Jacob M., Los Angeles, Calif. Frocks and dresses. 270,079; Apr. 29; Serial No. 293,426; published Feb. 11, 1930. Class 39.
Gordon & Dilworth, assignor, by mesne assignments, to Gordon & Dilworth, Inc., Roselle, N. J., and New York, N. Y. Certain foods. 78,792; renewed July 12, 1930.
Grafo Pencil Company, Ltd., Ceske Budejovice, Czechoslovakia. Lead and copying pencils. 270,285; Apr. 29. Class 37.
Gray, Marion R., doing business as Marion R. Gray Co., Los Angeles, Calif. Dress and semidress shirts and ties. 270,175; Apr. 29; Serial No. 292,627; published Feb. 11, 1930. Class 39.
Gunther, Geo., Jr., Brewing Co., The, Baltimore, Md. Nonalcoholic, cereal, malt beverages. 270,282; Apr. 29. Class 48.
Gutmann, Ferdinand, & Co., Brooklyn, N. Y. Bottle and jar seals. 270,209; Apr. 29; Serial No. 291,823; published Feb. 18, 1930. Class 50.
Ha-Ber-San Manufacturing Corp., New York, N. Y. Dress and negligee shirts and pajamas. 270,261; Apr. 29. Class 39.
Hall and Hall Co., Inc., Danbury, Conn., and New York, N. Y. Boys' and men's hats and caps. 270,250; Apr. 29. Class 39.
Harris, Thomas C., doing business as Harris Products Company, Detroit, Mich. Preparation for rheumatism. 270,230; Apr. 29; Serial No. 285,207; published Feb. 11, 1930. Class 6.
Hawaiian Canneries Company, Ltd., Kapaa, Kauai, Hawaii. Canned sliced and crushed pineapple and pineapple juice. 270,211; Apr. 29; Serial No. 288,803; published Feb. 11, 1930. Class 46.
Hemm, Edna I., doing business as Adam & Eve Beverage Company, Pittsburgh, Pa. Maltless beverages. 270,180; Apr. 29; Serial No. 291,726; published Feb. 18, 1930. Class 45.
Hofmann, Alfred, doing business as Original Old Country Remedy Company, Fort Wayne, Ind. Medicinal herb teas. 270,262; Apr. 29. Class 6.
Hookless Fastener Company, Meadville, Pa. Tobacco pouches, cigarette cases, and cigar cases. 270,090; Apr. 29; Serial No. 294,255; published Feb. 18, 1930. Class 8.
Hudson, J. L., Company, The, Detroit, Mich. Hosiery. 270,145; Apr. 29; Serial No. 292,729; published Feb. 11, 1930. Class 39.
Huyck, F. C., & Sons, Rensselaer and Albany, N. Y. Overcoats. 270,147; Apr. 29; Serial No. 292,357; published Feb. 11, 1930. Class 39.
Ingersol Candy Co., San Diego, Calif. Chocolates. 78,179; renewed May 31, 1930.
Instant Freezer Corporation, The, Racine, Wis., assignor to I. V. Brosell. Ice-cream freezers. 270,236; Apr. 29. Class 31.
International Maté Company, Inc., New York, N. Y. Yerba maté tea. 270,172; Apr. 29; Serial No. 291,163; published Feb. 18, 1930. Class 46.
Interstate Fruit Growers, Inc., Seattle and Wenatchee, Wash. Fresh deciduous fruits. 270,134; Apr. 29; Serial No. 277,871; published Feb. 18, 1930. Class 46.
Irbee Products Company. (See Bernstein, Irving.)
Jacob, H., & Sons, Inc., Brooklyn, N. Y. Slippers. 270,264; Apr. 29. Class 39.
Jarman Shoe Company, Nashville, Tenn. Boots, shoes, and slippers. 270,220; Apr. 29; Serial No. 281,836; published Feb. 18, 1930. Class 39.
Jewel Chemical Company, St. Louis, Mo. Liquid preparation for cleaning glass. 270,107; Apr. 29; Serial No. 293,977; published Feb. 11, 1930. Class 4.
Kayser, Julius, & Co., New York, N. Y. Underwear. 270,080; Apr. 29; Serial No. 293,328; published Feb. 11, 1930. Class 39.
Keeler, Fanny, New York, N. Y. Dolls. 270,247; Apr. 29. Class 22.
Kendall Mills, Inc., assignor to The Kendall Company, Walpole, Mass. Voiles, scrim, and marquisettes in the piece. 270,167; Apr. 29; Serial No. 272,407; published Feb. 11, 1930. Class 42.
Knott, Wm. T., Co., Inc., New York, N. Y. Men's furnishings. 270,150; Apr. 29; Serial No. 291,622; published Feb. 11, 1930. Class 39.
Kress, S. H., & Co., New York, N. Y. Pins. 270,208; Apr. 29; Serial No. 291,879; published Feb. 18, 1930. Class 40.
Kress, S. H., & Co., New York, N. Y. Paring knives, butcher knives, and bread knives. 270,255; Apr. 29. Class 28.
Lakeside Bottling Co., Sheboygan, Wis. Maltless beverages and sirups and extracts for making the same. 270,131; Apr. 29; Serial No. 294,392; published Feb. 18, 1930. Class 45.
Lancaster Merc. Co. Inc., New York, N. Y. Hats. 270,248; Apr. 29. Class 39.
La Pointe Machine Tool Company, The, Hudson, Mass. Broaching machines and broaches. 270,085; Apr. 29; Serial No. 293,737; published Feb. 18, 1930. Class 23.
Lauer, Otto, doing business as O. L. Laboratories, St. Albans, N. Y. Printing ink. 270,093; Apr. 29; Serial No. 294,075; published Feb. 18, 1930. Class 11.
Leggett, Francis H., & Company, New York, N. Y. Canned peas, shrimp, and peaches. 270,221; Apr. 29; Serial No. 282,658; published Feb. 18, 1930. Class 46.
Linbrook Ice Cream Company, Inc., Middletown, Conn. Ice cream. 270,226; Apr. 29; Serial No. 284,475; published Feb. 11, 1930. Class 46.
Liquid Dehydration Corporation, Chicago, Ill. Soaps and scouring powder. 270,192; Apr. 29; Serial No. 285,571; published Feb. 4, 1930. Class 4.
Lorraine Metal Manufacturing Company, Bridgeport, Conn. Folding tables. 270,124; Apr. 29; Serial No. 294,480; published Feb. 18, 1930. Class 32.
Maimon, J., & Son, Philadelphia, Pa. Coats and suits. 270,253; Apr. 29. Class 39.
Mandel, Paul, and Bro., Philadelphia, Pa. Men's clothing. 270,174; Apr. 29; Serial No. 257,297; published Feb. 11, 1930. Class 39.
Manette Medicine Company. (See Manning, Arque L.)
Manning, Arque L., doing business as Manette Medicine Company, St. Louis, Mo. Laxative medicine. 270,202; Apr. 29; Serial No. 292,770; published Feb. 11, 1930. Class 6.
McCain-Wright, Inc., St. Louis, Mo. Shoes. 270,244; Apr. 29. Class 39.
McCarty, Justin, Inc., Dallas, Tex., and New York, N. Y. Dresses. 270,151; Apr. 29; Serial No. 291,011; published Feb. 11, 1930. Class 39.
McManus, Lonnie C., Tullahoma, Tenn. Candies, nuts, and sandwiches, etc. 270,281; Apr. 29. Class 46.
Merchants Fruit & Produce Co., Inc., Boston, Mass. Fresh cranberries. 270,082; Apr. 29; Serial No. 294,230; published Feb. 18, 1930. Class 46.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Medicinal preparation. 270,103; Apr. 29; Serial No. 293,001; published Feb. 11, 1930. Class 6.
Middlesex Asparagus Growers' Association, Concord, Mass. Fresh asparagus. 270,228; Apr. 29; Serial No. 284,622; published Feb. 18, 1930. Class 46.
Midland Chemical Laboratories, Inc., Dubuque, Iowa. Liquid filter soap. 270,119; Apr. 29; Serial No. 293,335; published Feb. 11, 1930. Class 4.
Midland Chemical Laboratories, Inc., Dubuque, Iowa. Crystal cleaner and water softener. 270,120; Apr. 29; Serial No. 293,334; published Feb. 11, 1930. Class 4.
Milax Laboratories. (See Goldman, Max.)
Milk Maid Chocolate Company, The. (See Goldschmidt, J. D.)
Minervini, John, Hoboken, N. J. Food products. 270,178; Apr. 29; Serial No. 290,373; published Feb. 11, 1930. Class 46.
Mitchell Wing Company, Boston, Mass. Soap. 270,227; Apr. 29; Serial No. 284,482; published Feb. 11, 1930. Class 4.

Moffat, Thomas, Company, Inc., Indianapolis, Ind. Washing powders. 270,176; Apr. 29; Serial No. 292,365; published Feb. 4, 1930. Class 4.
Monticello Drug Company, Jacksonville, Fla. Preparation for the treatment of chapped hands and face, sunburn, etc. 270,154; Apr. 29; Serial No. 289,240; published Feb. 4, 1930. Class 6.
Mosaic Tile Company, The, Zanesville, Ohio. Floor, wall, and ceiling tiles. 270,237; Apr. 29. Class 12.
Muney, William A., New York, N. Y. Watches and watch movements. 270,224; Apr. 29; Serial No. 283,582; published Feb. 18, 1930. Class 27.
Nathan & Cohen Co., Inc., New York, N. Y. Semiskirts. 270,246; Apr. 29. Class 39.
National Aniline & Chemical Company, Inc., New York, N. Y. Organic acids. 270,213; Apr. 29; Serial No. 290,788; published Feb. 11, 1930. Class 6.
New England Fish Company, Seattle, Wash. Canned salmon. 270,125; Apr. 29; Serial No. 294,484; published Feb. 18, 1930. Class 46.
New York Export Co., New York, N. Y. Cuff links, buttons, belt buckles, and tie clasps, and glass beads. 270,219; Apr. 29; Serial No. 281,867; published Feb. 4, 1930. Class 40.
Nissen, jr., John P., doing business as John P. Nissen, Jr., Co., Philadelphia, Pa. Marking ink and stylo container combined. 270,231; Apr. 29; Serial No. 285,982; published Feb. 25, 1930. Class 11.
Norwalk Slipper Co., Inc., South Norwalk, Conn. House slippers. 270,092; Apr. 29; Serial No. 294,171; published Feb. 18, 1930. Class 39.
O. L. Laboratories. (See Lauer, Otto.)
Olirite Corporation, Red Bank, N. J. Petroleum products. 270,288; Apr. 29. Class 15.
Olivieri, Natale, doing business as Specialty Bottling Co., Garfield, N. J. Ginger ale and sirup for making the same. 270,266; Apr. 29. Class 45.
Original Old Country Remedy Company. (See Hofmann, Alfred.)
Palmer Apparel Shop, Chicago, Ill. Women's shoes, dresses, and coats. 270,259; Apr. 29. Class 39.
Panola Co., The. (See Fisher, Nannie H.)
Pape, Henry, Inc., Brooklyn, N. Y. Fruit preserves. 270,084; Apr. 29; Serial No. 293,889; published Feb. 18, 1930. Class 46.
Parker-Regan Corporation, San Francisco, Calif. Polishing oil. 270,243; Apr. 29. Class 16.
Penryn Fruit Co., Penryn, Calif. Fresh fruits, grapes, berries. 270,148; Apr. 29; Serial No. 292,044; published Feb. 18, 1930. Class 46.
Pep Boys, Manny, Moe & Jack, The, Philadelphia, Pa. Vehicle tires and inner tubes. 270,251; Apr. 29. Class 35.
Pepper, Dr., Company, Dallas and Waco, Tex., and St. Louis, Mo. Nonalcoholic, maltless, tonic beverages and syrups for making the same. 270,292; Apr. 29. Class 45.
Perfection Glass Company, Limited, Toronto, Ontario, Canada. Counter display cases of all kinds. 270,160; Apr. 29; Serial No. 285,424; published Feb. 18, 1930. Class 32.
Philadelphia Inquirer Co., The, Philadelphia, Pa. Nom de plume for a fashion page in a weekly newspaper. 270,270; Apr. 29. Class 38.
Phoenix Hosiery Company, Milwaukee, Wis. Hosiery. 270,118; Apr. 29; Serial No. 293,688; published Feb. 18, 1930. Class 39.
Plastic Stone Products Corp., New York, N. Y. Plastic wall covers, finishes, and painter's sizing. 270,188; Apr. 29; Serial No. 288,815; published Feb. 4, 1930. Class 16.
Purk Company, The. (See Walts, Bradley H.)
Rasmussen, Geo., Co., Chicago, Ill. Nonalcoholic beverages. 270,189; Apr. 29; Serial No. 287,426; published Feb. 18, 1930. Class 45.
Repp, Albert T., Glassboro, N. J. Insecticides. 270,096; Apr. 29; Serial No. 293,852; published Feb. 11, 1930. Class 6.
Riedel & Co. Inc., New York, N. Y. Urinary antiseptic. 270,205; Apr. 29; Serial No. 292,177; published Feb. 11, 1930. Class 6.
Risser & Rabinowitz, Inc., Philadelphia, Pa. Poultry. 270,135; Apr. 29; Serial No. 293,486; published Feb. 18, 1930. Class 46.
Roberts, J. W., & Son, Tampa, Fla. Fruit preserves, candied fruits, crystallized fruits, etc. 270,101; Apr. 29; Serial No. 293,290; published Feb. 11, 1930. Class 46.
Robin, David N., Crafton and Pittsburgh, Pa. Laxatives. 270,102; Apr. 29; Serial No. 293,004; published Feb. 11, 1930. Class 6.
Roman Stripe Mills Inc., Easton, Pa. Hosiery. 270,112; Apr. 29; Serial No. 293,748; published Feb. 18, 1930. Class 39.
Ronsoni Macaroni Co., Long Island City, N. Y. Prepared food. 270,229; Apr. 29; Serial No. 288,484; published Feb. 11, 1930. Class 46.
Rosen, M. H., & Company, New York, N. Y. Men's dress shirts. 270,258; Apr. 29. Class 39.
Rosenau Bros. Inc., Philadelphia, Pa. Dresses. 270,104; Apr. 29; Serial No. 293,556; published Feb. 11, 1930. Class 39.
Rosenberg & Brand. (See Brand, Charles.)
Rosenthal, Sig. Co., Inc., New York, N. Y. Ladies' vests, bloomers, princess slips, etc. 270,183; Apr. 29; Serial No. 291,068; published Feb. 18, 1930. Class 39.
Rossell, Henry, & Co., Limited, Sheffield, England. Steel. 76,999; renewed Mar. 1, 1930.
Rossell, Henry, & Co., Limited, Sheffield, England. Certain metals and metal articles. 77,729; renewed May 3, 1930.
Rossell, Henry, & Co., Limited, Sheffield, England. Machine tools. 77,730; renewed May 3, 1930.
Rossell, Henry, & Co., Limited, Sheffield, England. Certain tools. 79,009; renewed July 26, 1930.
Rotella, Frank, doing business as Rotella's Beverages, Newark, N. J. Maltless beverages. 270,109; Apr. 29; Serial No. 293,897; published Feb. 18, 1930. Class 45.
Rummel, Himes & Company, Shippensburg, Pa. Coats, trousers, overalls, and shirts. 270,142; Apr. 29; Serial No. 292,907; published Feb. 11, 1930. Class 39.
Schicht, Georg, A. G., Aussig, Czechoslovakia. Perfumes, cosmetical creams, scalp waters, etc. 270,217; Apr. 29; Serial No. 279,390; published Feb. 11, 1930. Class 6.
Schneierson, I., & Son, Inc., New York, N. Y. Chemises, princess slips, bloomers, etc. 270,143; Apr. 29; Serial No. 292,832; published Feb. 11, 1930. Class 39.
Schneierson, I., & Son, Inc., New York, N. Y. Chemises, princess slips, bloomers, etc. 270,144; Apr. 29; Serial No. 292,830; published Feb. 11, 1930. Class 39.
Schreiber, A. H., Company, New York, N. Y. Ladies' underwear. 270,126; Apr. 29; Serial No. 293,599; published Feb. 18, 1930. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Men's shoes. 270,100; Apr. 29; Serial No. 293,607; published Feb. 18, 1930. Class 39.
Security Mfg. Company, Denver, Colo. Fire extinguishers. 270,171; Apr. 29; Serial No. 291,698; published Feb. 18, 1930. Class 23.
Self-Siphon Mfg. Co., Atlanta, Ga. Automatic siphons. 270,268; Apr. 29. Class 13.
Seminole Bottling Company, Huntsville, Ala. Maltless beverages. 270,260; Apr. 29. Class 45.
Sharples Specialty Company, The, Philadelphia, Pa. Centrifugal machines. 270,295; Apr. 29. Class 23.
Sidney Machine Tool Company, The, Sidney, Ohio. Lathes. 270,216; Apr. 29; Serial No. 278,624; published Feb. 18, 1930. Class 23.
Silver Suds Manufacturing Company, Philadelphia, Pa. Cleaning and polishing material. 270,180; Apr. 29; Serial No. 293,384; published Feb. 11, 1930. Class 4.
Skinner, Lee B., Dunedin, Fla. Fresh citrus fruits. 270,123; Apr. 29; Serial No. 294,596; published Feb. 18, 1930. Class 46.
Smyrna Imports Co., Inc., New York, N. Y. Dates and figs. 270,222; Apr. 29; Serial No. 283,013; published Feb. 18, 1930. Class 46.
Société Parisienne d'Expansion Chimique S. P. E. C. I. A., Paris, France. Acetyl salicyclic acid, pyrazolone, benzyl benzoate, etc. 270,252; Apr. 29; Serial No. 286,516; published Feb. 11, 1930. Class 6.
Soldman, Max., doing business as Milax Laboratories, Chicago, Ill. Cold capsule. 270,097; Apr. 29; Serial No. 293,828; published Feb. 11, 1930. Class 6.
South Bend Bait Co., South Bend, Ind. Fishing reels and casting reels. 270,286; Apr. 29. Class 22.
Specialty Bottling Co. (See Olivieri, Natale.)
Standard Knitting Mills, Knoxville, Tenn. Shirts, drawers, and union suits. 270,215; Apr. 29; Serial No. 278,266; published Feb. 11, 1930. Class 39.
Standard Knitting Mills, Knoxville, Tenn. Shirts and drawers and union suits. 270,245; Apr. 29. Class 39.
Standard Motor Truck Company, Detroit, Mich. Motor delivery trucks and chassis. 270,290; Apr. 29. Class 19.
Standard Motor Truck Company, Detroit, Mich. Motor delivery trucks and chassis. 270,298; Apr. 29. Class 19.
Stockton Paint Company, The, Stockton, Calif. Painters' materials. 79,237; renewed Aug. 16, 1930.
Suffolk County Duck Growers Association of Long Island, Riverhead, N. Y. Poultry. 270,136; Apr. 29; Serial No. 288,256; published Feb. 18, 1930. Class 46.
Tanner, Roe, Attica, Ohio. Toy flying machines. 270,277; Apr. 29. Class 22.
Texas Truck Lines, Inc., doing business as The Valley Fruit Co., McAllen, Tex. Fruits. 270,170; Apr. 29; Serial No. 291,746; published Feb. 18, 1930. Class 46.
Thurston & Kingsbury, to Thurston & Kingsbury Co., Bangor, Me., successor. Tea and blended coffee. 78,745; renewed July 5, 1930.
Tilt Top Mfg. Co., Chicago, Ill. Bottle-capping tools. 270,164; Apr. 29; Serial No. 276,052; published Feb. 18, 1930. Class 23.
Topp Oil & Supply Co., Milwaukee, Wis. Motor-lubricating oil. 270,252; Apr. 29. Class 15.
Tupper Slipper Corporation, Brooklyn, N. Y. Slippers. 270,089; Apr. 29; Serial No. 294,406; published Feb. 18, 1930. Class 39.
2 Minit Laboratories. (See Comstock, Andrew W.)
Tyler, W. S., Company, The, Cleveland, Ohio. Woven-wire screens and grain-screening apparatus. 270,238; Apr. 29. Class 23.
Umby Corporation, The, New York, N. Y. Umbrellas and parasols. 270,111; Apr. 29; Serial No. 293,758; published Feb. 18, 1930. Class 41.
United Millinery Sores Co., Chicago, Ill. Ladies' hats. 270,091; Apr. 29; Serial No. 294,243; published Feb. 18, 1930. Class 39.
United States Rubber Company, New York, N. Y. Rubber tires for vehicles. 270,155; Apr. 29; Serial No. 290,803; published Feb. 18, 1930. Class 35.

United States Rubber Company, New York, N. Y. Heels for shoes. 270,214; Apr. 29; Serial No. 290,630; published Feb. 18, 1930. Class 39.
United States Sand Paper Co., Williamsport, Pa. Abrasive papers and cloths. 270,194–6; Apr. 29; Serial Nos. 285,537–8; published Feb. 4, 1930. Class 4.
United Tractor & Equipment Corporation, Chicago, Ill. Moldboard tractor plows, tractor manure spreaders, planers, etc. 270,141; Apr. 29; Serial No. 286,091; published Feb. 18, 1930. Class 23.
Universal Fruit Company, Inc., Wenatchee, Wash. Fresh cherries, apricots, etc. 270,157; Apr. 29; Serial No. 290,633; published Feb. 18, 1930. Class 46.
Valley Fruit Co., The. (See Texas Truck Lines, Inc.)
Van Baalen Heilbrun & Co., New York, N. Y. Lounging robes, house coats, bath robes, and smoking jackets. 270,177; Apr. 29; Serial No. 291,395; published Feb. 18, 1930. Class 39.
Vanderbilt Mills, Inc., New York, N. Y. Collars, pajamas, nightrobes, etc. 270,161; Apr. 29; Serial No. 285,311; published Feb. 11, 1930. Class 39.
Van Heusden, John B., New York, N. Y. Prepared cocoa, cocoa butter for food purposes, cocoa powder, etc. 270,184; Apr. 29; Serial No. 290,533; published Feb. 11, 1930. Class 46.
Vegetable Oil Products Company, Inc., Los Angeles, Calif. Vegetable shortening. 270,159; Apr. 29; Serial No. 289,050; published Feb. 18, 1930. Class 46.
Virginia Shoe Company, Inc., Fredericksburg, Va. Shoes. 270,197; Apr. 29; Serial No. 290,044; published Feb. 18, 1930. Class 39.
Waldo Canning Co., Sheboygan, Mich. Canned vegetables. 370,269; Apr. 29. Class 46.
Walter, John, New York, N. Y. Candy, bread, cake, etc. 270,166; Apr. 29; Serial No. 274,140; published Feb. 11, 1930. Class 46.
Walts, Bradley H., doing business as The Purk Company, Baltimore, Md. Preparation for shaving. 270,117; Apr. 29; Serial No. 293,701; published Feb. 11, 1930. Class 4.
Warren Manufacturing Co., The, Riegelsville, N. J., and New York, N. Y. Paper. 270,156; Apr. 29; Serial No. 290,637; published Jan. 7, 1930. Class 37.
Wearfine Pants Corp., New York, N. Y. Boys' knickers and knee pants. 270,270; Apr. 29. Class 39.
Werra Aluminum Foundry Co., The, Waukesha, Wis. Aluminum hammers. 270,133; Apr. 29; Serial No. 277,521; published Feb. 18, 1930. Class 23.
West Virginia Macaroni Company, Clarksburg, W. Va. Alimentary pastes. 270,203; Apr. 29; Serial No. 292,712; published Feb. 11, 1930. Class 46.
Wickwire Spencer Steel Company. (See Bowers, Edward C., and Feldman.)
Wickwire Spencer Steel Company, New York, N. Y. Woven-wire conveyor belts. 270,276; Apr. 29. Class 23.
Wildhack, Flora, La Crescenta, Calif. Orange marmalade in jars. 270,291; Apr. 29. Class 46.
Winder Manufacturing Company, Winder, Ga. Overalls. 270,149; Apr. 29; Serial No. 291,856; published Feb. 11, 1930. Class 39.
Wolferman, Fred, Incorporated, Kansas City, Mo. Butter, eggs, jam, etc. 270,271; Apr. 29. Class 46.
Yorke Shirt Company, The, Glens Falls, N. Y. Outer dress shirts. 270,182; Apr. 29; Serial No. 291,252; published Feb. 18, 1930. Class 39.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS

Barker, Moore & Mein Co., Inc., The, Philadelphia, Pa. Barker's Mineraltone for Cows. For Powders Composed of Minerals, Alteratives, and Correctives for Cows. 37,390; Apr. 29.
Barker, Moore & Mein Co., Inc., The, Philadelphia, Pa. Barker's Mineraltone for Hogs. For Powders Composed of Minerals, Alteratives, and Correctives for Hogs. 37,391; Apr. 29.
Barker, Moore & Mein Co., Inc., The, Philadelphia, Pa. Barker's Special Poultry Powder. For Powders Composed of Minerals, Alteratives, and Corectives for Poultry. 37,392; Apr. 29.
El Estado Products Company, Seattle, Wash. El Estado Lemon Creme. For Face Cream. 37,393–4; Apr. 29.
Franck, Heinr., Sons, Inc., Flushing, N. Y. Franck Tablets. For Chicory Product. 37,395; Apr. 29.
Gibbs & Company, Incorporated, Baltimore, Md. Gibbs Oystero. For Oyster Stew. 37,396; Apr. 29.
Grotrian-Steinweg, Brunswick, Germany. The World's Finest Instrument with Homogenous Sounding Board. For Pianos, Grand Pianos, and Other Keyboard Music Instruments. 37,397; Apr. 29.
Hitt Fireworks Co., Seattle, Wash. Hitt's Moonlight Silver Falls. For Pyrotechnic Novelties. 37,398; Apr. 29.
Krank, A. J., Mfg. Co., St. Paul, Minn. Skin-Health. For Bath Compound. 37,399; Apr. 29.
Old Scotch Remedies, Chelsea, Mass. Old Scotch. For Liniment. 37,400; Apr. 29.
Sandoz Chemical Works, Inc., New York, N. Y. Calcium Gluco-Nate Sandoz. For Chemical Prepsration Containing Calcium. 37,401; Apr. 29.
Smith Bros., Minneapolis, Minn. E-Z Shave. For Preparation to be Used Before Shaving. 37,402; Apr. 29.
Strickler, E. B., York, Pa. Hello-World. For Cigars. 37,403; Apr. 29.
Trade Lithograph & Printing Company Inc., New York, N. Y. Ready Fit Caps Adjustable Patented Fits Any Size Head. For Caps. 37,404; Apr. 29.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS

Armstrong, W. D., Alton, Ill. Para-Sac Chewing Gum. For Chewing Gum. 12,498; Apr. 29.
Automatic Paper Machinery Co., Inc., Elizabeth, N. J. Cut-Rite Waxed Paper Keeps Food Fresh—Clean. For Waxed Paper. 12,499; Apr. 29.
Elaborated Ready Roofing Company, Chicago, Ill. Factory to Roof. For Asphaltic Roofing. 12,500; Apr. 29.
Hills Bros., San Francisco, Calif. Yes Sir! That's Hills Bros. Coffee. For Coffee. 12,501; Apr. 29.
Ladewig, Otto H., Chicago, Ill. Real Hose Reel. Real Bed Table. For Hose Reels and Bed Tables. 12,502; Apr. 29.
Roser, Louis A., Salt Lake City, Utah. Cold Temperatures for Warm Friends. For Refrigerating and Ice-Making Machines. 12,503; Apr. 29.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Protect Your Home . . . Insects are Dangerous. For Insecticides. 12,504; Apr. 29.
Stanco Incorporated, New York, N. Y., and Wilmington, Del. Flit Kills Flies and Mosquitoes. For Insecticides. 12,505; Apr. 29.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Flit Kills Easier, Quicker. For Insecticides. 12,506; Apr. 29.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. No Flies or Skeeters in Our House. For Insecticides. 12,507; Apr. 29.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Protect the Home, Spray Flit. For Insecticides. 12,508; Apr. 29.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Healthy Happy Homes Spray Flit. For Insecticides. 12,509; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Zig-Zag. For Quilting Cotton. 12,510; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Chanticleer. For Quilting Cotton. 12,511; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Lone Star. For Quilting Cotton. 12,512; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Harrison Rose. For Quilting Cotton. 12,513; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. Tree of Paradise. For Quilting Cotton. 12,514; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Conventional Tulip. For Quilting Cotton. 12,515; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. Jacob's Ladder. For Quilting Cotton. 12,516; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Mountain Star. For Quilting Cotton. 12,517; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Sunflower. For Quilting Cotton. 12,518; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. Princess Feather. For Quilting Cotton. 12,519; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Guide Post. For Quilting Cotton. 12,520; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Shamrock. For Quilting Cotton. 12,521; Apr. 29.
Stearns & Foster Co., The, Lockland, Cincinnati, Ohio. The Iris. For Quilting Cotton. 12,522; Apr. 29.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb, 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Ackerman Coal Company, The, Toledo, Ohio. Coal. 296,940; Apr. 29. Class 1.
Aeolian Company, The, Meriden, Conn., and New York, N. Y. Motor boats. 296,309; Apr. 29. Class 19.
Aktiengeselischaft für Feinmechanik vormals Jetter & Scheerer, Tuttlingen, Germany. Pocketknives, knives, forks, and spoons, razors, shears, etc. 268,901; Apr. 29. Class 23.
Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 297,048; Apr. 29. Class 37.
Alberene Stone Company, New York, N. Y. Soapstone. 296,510; Apr. 29. Class 1.
Aldur Corporation, Brooklyn, N. Y. Molding powder. 295,452; Apr. 29. Class 1.
Ali, J. Mohammad, Inc., New York, N. Y. Brass goods. 280,650; Apr. 29. Class 13.
Alpha Gamma Sigma Fraternity, Inc., Collingswood, N. J. Fraternity badges, lapel buttons, cuff links, etc. 296,845; Apr. 29. Class 28.
Alwes, Clarence E. H., doing business as F. W. Alwes & Son, Louisville, Ky. Malt syrup for food purposes. 297,223; Apr. 29. Class 46.
American Cone & Pretzel Company, Philadelphia, Pa. Pretzels. 297,508; Apr. 29. Class 46.
American Fruit and Vegetable Shippers Association, Chicago, Ill. Post binders and delivery-receipt books. 283,711; Apr. 29. Class 37.
American Mineral Spirits Co., Chicago, Ill. Naphtha. 292,704; Apr. 29. Class 15.
American Mineral Spirits Co., Chicago, Ill. Naphtha. 292,706; Apr. 29. Class 15.
American Mineral Spirits Co., Chicago, Ill. Naphtha. 293,125–6; Apr. 29. Class 15.
Amos 'N' Andy Doll Co., New York, N. Y. Dolls. 296,467; Apr. 29. Class 22.
Anderson Manufacturing Company, Cambridge, Mass. Vehicle spring covers. 296,997; Apr. 29. Class 19.
Apex Electrical Manufacturing Company, The, Cleveland, Ohio. Instruments and meters. 286,918; Apr. 29. Class 26.
Apex Products Corporation, Chicago, Ill. Bath crystal and water softener. 296,725; Apr. 29. Class 6.
Arctic-Aire Company. (See Hall, Carter F.)
Autosales Corporation, Long Island City, N. Y. Sanitary packages. 264,412; Apr. 29. Class 50.
Ayer, Harriet Hubbard, Inc., New York, N. Y. Vanishing cream, cold cream, face cream, etc. 296,570; Apr. 29. Class 6.
Ayer, Harriet Hubbard, Inc., New York, N. Y. Manicure sets. 296,571; Apr. 29. Class 44.
Badger Worsted Mills, Grafton, Wis. Machinery packing. 267,606; Apr. 29. Class 35.
Baker, Charles F., & Co. Inc., Boston, Mass. Golf tees. 297,353; Apr. 29. Class 22.
Baldwin Company, The, Cincinnati, Ohio. Radio receiving sets and loud-speakers, antennæ, etc. 278,922; Apr. 29. Class 21.
Barrett Company, The, New York, N. Y. Heat and sound insulating felt, cements, and plaster board. 295,416; Apr. 29. Class 12.
Beaded Screen Corp., Roosevelt, N. Y. Moving picture screens. 294,841; Apr. 29. Class 26.
Belmont Products Company, Fort Wayne, Ind. Malt extracts. 292,898; Apr. 29. Class 46.
Berg, Charles W., San Francisco, Calif. Mortuary trade journal. 296,854; Apr. 29. Class 38.
Blabon-Sandura Company, Inc., Philadelphia, Pa. Periodicals. 296,218; Apr. 29. Class 38.
Blackman & Blackman, Inc., doing business as Premo Pharmaceutical Laboratories, New York, N. Y. Amidopyrine, aspirin, barbital, etc.. 292,154; Apr. 29. Class 6.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 296,686; Apr. 29. Class 42.
Bottum & Torrance Co., Bennington, Vt. Woven textile sheets, pillowcases, bedspreads, and blankets. 294,842; Apr. 29. Class 42.
Bowler Foundry Company, The, Cleveland, Ohio. Iron. 286,740; Apr. 29. Class 14.
Bowman Hat Company, Knoxville, Tenn. Men's hats. 292,094; Apr. 29. Class 39.
Broitman Bros., New York, N. Y. Men's suits and overcoats. 296,393; Apr. 29. Class 39.
Bryant, Lane, Inc., New York, N. Y. Coats, suits, and dresses. 295,431–2; Apr. 29. Class 39.
Bucyrus-Erie Company, Milwaukee, Wis. Shovels, excavators, dredges, etc. 266,512; Apr. 29. Class 23.
Bucyrus-Erie Company, Milwaukee, Wis. Portable electric-lighting plants, motor generators, cables, etc. 266,513; Apr. 29. Class 21.
Carew Manufacturing Company, South Hadley Falls, Mass. Ledger and bond paper. 297,517; Apr. 29. Class 37.
Carnilt, Rostschutz- und Farbstoff-Gesellschaft mit beschränkter Haftung, Breslau, Germany. Paints and varnish. 289,782; Apr. 29. Class 16.
Case, J. I., Company, Racine, Wis. Agricultural implements, tractors, engines, etc. 296,047; Apr. 29. Class 23.
Central Ohio Paper Company, The, Columbus, Ohio. Folding enamel book paper. 297,122; Apr. 29. Class 37.
Century Cement Corporation, Rosendale, N. Y. Cement for construction work. 289,336; Apr. 29. Class 12.
Cereal Soaps Company Inc., New York, N. Y. Soap. 295,460; Apr. 29. Class 4.
Challenge Cream & Butter Association, Los Angeles, Calif. Butter. 297,465; Apr. 29. Class 46.
Chamberlain, F. B., Company, East St. Louis, Ill., and St. Louis, Mo. Coffee extract and concentrated coffee. 297,003; Apr. 29. Class 46.
Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 294,707; Apr. 29. Class 37.
Champion Coated Paper Company, The, Hamilton, Ohio. Mineral-coated paper. 296,261; Apr. 29. Class 37.
Charleston Milling & Produce Company, Charleston, W. Va. Prepared flours. 297,409; Apr. 29. Class 46.
Chemische und Biologische Laboratorien Dr. Boerlage G. m. b. H., Wiesbaden, Germany. Massage apparatus. 295,019; Apr. 29. Class 44.
Chicago Rubber Clothing Co., Racine, Wis. Outer coats. 293,263; Apr. 29. Class 39.
Colorcraft Corporation, New York, N. Y. Moving-picture films. 297,470; Apr. 29. Class 26.
Columbia Phonograph Company, Inc., Bridgeport, Conn. Phonograph records. 291,203; Apr. 29. Class 36.
Consolidated Tea Company, Inc., New York, N. Y. Canned fish. 296,263; Apr. 29. Class 46.
Copeland Products, Inc., Detroit, Mich. Refrigerators. 291,500; Apr. 29. Class 31.
Cowden Mfg. Co., also doing business as Thomas Overall Mfg. Co., Kansas City, Mo. Overalls, pants, one-piece work suits, play suits. 296,484; Apr. 29. Class 39.
Cox, Arthur H., & Co., Limited, Brighton, England. Solidified peroxide of hydrogen. 297,298; Apr. 29. Class 6.
Craveroller Company of America, Philadelphia, Pa. Lubricating oils. 294,845; Apr. 29. Class 15.
Crescent Brass and Pin Company, Detroit, Mich. Nails. 296,000; Apr. 29. Class 13.
Customer Owned Restaurants and Bakeries, Inc., Clarendon, Va. Rolls, bread, cakes, etc. 296,684; Apr. 29. Class 46.
Delta-Star Electric Company, Chicago, Ill. Cable terminators, oil-circuit breakers, etc. 295,785; Apr. 29. Class 21.
Doraldina, Inc., Hollywood, Calif. Astringents, astringent cerates, bleach creams, etc. 283,439; Apr. 29, Class 6.
Downing Taylor Company, Springfield, Mass. Canned berries, canned clam chowder, rice, and coffee. 297,421; Apr. 29. Class 46.
Dulcetto-Polyphon Limited, London, England. Wireless receiving sets, thermionic amplifiers, etc. 291,327; Apr. 29. Class 21.
Duplan Silk Corporation, New York, N. Y. Piece goods of silk and rayon and mixtures thereof. 294,294; Apr. 29. Class 42.
Duplate Corporation, Pittsburgh, Pa. Laminated sheet glass. 296,264–5; Apr. 29. Class 33.
Dwinell-Wright Company, Boston, Mass. Coffee. 296,860; Apr. 29. Class 46.
Edlis Barbers' Supply Co., The, Pittsburgh, Pa. Preparation to set the hair waves, liquid brilliantine, cold cream, etc. 295,426; Apr. 29. Class 6.
Eelbeck Milling Co., Inc., Columbus, Ga. Hominy grits, self-rising flour, etc. 297,160; Apr. 29. Class 46.
Electro Refractories Corporation, The, Buffalo, N. Y. Heat-conducting articles. 279,084; Apr. 29. Class 34.
Electrotime Manufacturing Company, Chicago, Ill. Electric clocks. 297,065–6; Apr. 29. Class 27.
Empire Silk Company, New York, N. Y. Silk piece goods. 297,524; Apr. 29. Class 42.
Enterprise Aluminum Company, The, Massillon, Ohio. Aluminum device for making tea. 295,731; Apr. 29. Class 13.
Eton Products Inc., Newark, N. J. Antacid tablets. 286,820; Apr. 29. Class 6.
Eton Products, Inc., Newark, N. J. Stimulant tonic. 291,446; Apr. 29. Class 6.
Evens & Howard Fire Brick Co., St. Louis, Mo. Fire brick. 288,115; Apr. 29. Class 12.
Evslin, Leo E., Philadelphia, Pa. Cigarette holders, pellets, cigar holders, and tobacco-smoking pipes. 296,803; Apr. 29. Class 8.
Fahy, Frank P., New York, N. Y. Blank forms. 297,182; Apr. 29. Class 37.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. 295,942; Apr. 29. Class 46.
Firestone Battery Company, Akron, Ohio. Storage batteries. 296,962; Apr. 29. Class 21.
Firestone Battery Company, Akron, Ohio. Storage batteries. 297,185; Apr. 29. Class 21.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Fite, L. E., doing business as Nightingale Radio Manufacturing Company, Memphis, Tenn. Radio receiving sets. 293,825; Apr. 29. Class 21.
Franklin County Coal Co., Chicago, Ill. Coal and coke. 297,526; Apr. 29. Class 1.
Franklin, H. H., Manufacturing Company, Syracuse, N. Y. Automobiles and structural parts thereof. 296,736; Apr. 29. Class 19.
Fuel Distributors, Inc., Cleveland, Ohio. Coal. 296,010; Apr. 29. Class 1.
Fulton, E. E., Co., Chicago, Ill. Hand cleanser, window-cleaning cream, liquid soap, etc. 294,720; Apr. 29. Class 4.
Gatke, William A., Richmond Hill, N. Y. Plastic paints. 296,332; Apr. 29. Class 16.
Gebauer & Kimpel, Baltimore, Md. Malt syrup. 297,009; Apr. 29. Class 46.
General Silk Corporation, New York, N. Y. Silk piece goods. 296,418; Apr. 29. Class 42.
General Silk Corporation, New York, N. Y. Yarns. 297,527; Apr. 29. Class 43.
Gerdts, Gustav F., Bremen, Germany. Steam and water valves, steam traps, nozzles, etc. 287,135; Apr. 29. Class 13.
Gibbs & Company, Incorporated, Boston, Mass. Canned oyster stew. 296,183; Apr. 29. Class 46.
Giras Bros. Inc., Chicago, Ill. Dried figs, dates, and prunes, and nut meats. 281,825; Apr. 29. Class 46.
Gluckin Corp., The, New York, N. Y. Bow ties and four-in-hand ties. 295,025; Apr. 29. Class 39.
Goldenberg, Morton H., doing business as Goldenberg's, Washington, D. C. Dresses. 295,612; Apr. 29. Class 39.
Grafo Pencil Company, Ltd., Ceske Budejovice, Czechoslovakia. Lead and copying pencils. 297,071; Apr. 29. Class 37.
Grafo Pencil Company, Ltd., Ceske Budejovice, Czechoslovakia. Lead and copying pencils. 297,073–5; Apr. 29. Class 37.
Graham Amplion Limited, Slough and London, England. Telephonic and wireless loud-speakers. 289,150; Apr. 29. Class 21.
Grand River Canning Company, Markesan, Wis. Canned vegetables. 297,529; Apr. 29. Class 46.
Grant, W. T., & Co. Branch. (See Tobacco Rehandling Co., Ltd., The.)
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Golf balls. 297,594; Apr. 29. Class 23.
Gray Envelope Manufacturing Company, Inc., The, Brooklyn, N. Y. Envelopes. 296,341–5; Apr. 29. Class 37.
Hall, Carter F., doing business as Arctic-Aire Company, Inc., Baltimore, Md. Turbines, compressors, pumps, and parts of the same. 295,513; Apr. 29. Class 23.
Hamley & Company, Pendleton, Oreg. Leather cases. 293,045; Apr. 29. Class 3.
Harvey, George E., doing business as Harvey Coal Company, Indianapolis, Ind. Coal. 295,300; Apr. 29. Class 1.
Henry, Major, Products Company, The, East Hartford, Conn. Soaps and cleaners. 279,862; Apr. 29. Class 4.
Heraeus-Vacuumschmelze Aktiengesellschaft, Hanau-on-the-Main, Germany. Noncorrodible alloys. 297,192; Apr. 29. Class 14.
Hervey, Paul S., Des Moines, Iowa. Envelopes, letterheads, printed blotters, etc. 282,921; Apr. 29. Class 37.
Hirsch, Herman J., doing business as Hollow Tree Pantry, Milwaukee, Wis. Shelled nuts. 294,222; Apr. 29. Class 46.
Hobson Flatware Company, Lansdale, Pa. Silver-plated knives, forks, and spoons. 257,416; Apr. 29. Class 28.
Hollow Tree Pantry. (See Hirsch, Herman J.)
Holton, Frank, & Co., Elkhorn, Wis. Clarinets, trumpets, bass horns, etc. 295,472; Apr. 29. Class 36.
Horn, Clarence E., doing business as No-B-O Co., Brooklyn, N. Y. Liquid odorless deodorants. 296,562; Apr. 29. Class 6.
Hot-N-Kold Corporation, San Francisco, Calif. Electric air heaters and parts therefor, electric ranges and parts therefor, electric water heaters and parts therefor, 273,495; Apr. 29. Class 21.
Howey-in-the-Hills Juice Company, Howey in the Hills, Fla. Grapefruit and orange juices. 294,257; Apr. 29. Class 46.
Hygienic Laboratories. (See Spencer, J. W.)
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Hat trimmings, braid, bows, and rosettes, etc. 287,181; Apr. 29. Class 40.
I-T-E Circuit Breaker Company, Philadelphia, Pa. Automatic electrical switches, automatic circuit breakers, etc. 285,208; Apr. 29. Class 21.
Iler Electrical Manufacturing Co., Warren, Ohio. Fittings, boxes and attaching devices and conduit. 293,323; Apr. 29. Class 21.
International Products Corporation, New York, N. Y. Meat bouillon. 296,226; Apr. 29. Class 46.
Iroquois Concord Grape Bureau, Brocton, N. Y. Fresh grapes. 295,031; Apr. 29. Class 46.
Isoard, Francois, Paris, France. Special chemical product. 291,225; Apr. 29. Class 6.
Jeffrey Jewelry Co., Chicago, Ill. Jewelry. 293,666; Apr. 29. Class 28.
Jensen and Corbitt, Los Angeles, Calif. Ground metal ore. 294,036; Apr. 29. Class 1.
Kappa Kappa Gamma, Columbus, Ohio. Fraternity pins. 294,877; Apr. 29. Class 28.
Kar-Bon-Foe Corporation, Ltd., Pasadena, Calif. Chemicals for treating combustible fluids. 296,525; Apr. 29. Class 6.
Karpas, I. D., & Company, Inc., New York, N. Y. Wearing apparel. 294,262; Apr. 29. Class 39.
Kawneer Company, The, Niles, Mich. Store-front window constructions, metal window constructions, etc. 277,804; Apr. 29. Class 12.
Keesling, Cecil S., Campbell, Calif. Magazine. 296,063; Apr. 29. Class 38.
Kentucky Kernels Company. (See Wile, Albert D.)
Keyes Fibre Company, Inc., Waterville, Me. Plates, dishes, food packing and shipping dishes, and their parts. 295,520; Apr. 29. Class 2.
Kikuchi, Hideki, doing business as North American Beppu Mineral Water Company, San Francisco, Calif. Mineral water. 292,628; Apr. 29. Class 45.
Kingan & Co., Incorporated, Indianapolis, Ind. Hams, bacon, sausage, etc. 296,651; Apr. 29. Class 46.
Kirby, Black & Fischer, Inc., New York, N. Y. Golf balls. 296,749; Apr. 29. Class 22.
Knott, Wm. T., Co. Inc., New York, N. Y. Suits and overcoats. 271,891; Apr. 29. Class 39.
Kounelias, John A., Incorporated, Newark, N. J. Macaroni. 295,681; Apr. 29. Class 46.
Kretschmar, A. W., Inc., New York, N. Y. Medicinal preparation. 296,016; Apr. 29. Class 6.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Matches. 296,750; Apr. 29. Class 9.
Kroger Grocery & Baking Co., The, Cincinnati, Ohio. Milk-bottle caps, bottle crowns, and fly swatters. 297,087; Apr. 29. Class 50.
Kruger, James P., Niagara Falls, N. Y. Fixative for printing ink. 295,624; Apr. 29. Class 11.
Laura Hair Novelty Co. (See Thau, Charles K.)
La Vay Products Company, New York, N. Y., and Hackensack, N. J. Shampoo. 290,786; Apr. 29. Class 6.
Lewis, Robert, Knitwear Co., Inc., New York, N. Y. Sweaters, coats, bathing suits, etc. 296,532; Apr. 29. Class 39.
Loewith, Julius, Inc., New York, N. Y. Peat moss. 297,567; Apr. 29. Class 1.
Lowenthal, David H., & Co., Inc., New York, N. Y. Ladies' suits, coats, dresses, etc. 291,281; Apr. 29. Class 39.
Lumitone Corporation of America, St. Charles, Ill. Equipment for remote electric control. 289,527; Apr. 29. Class 21.
Lyons Storage Battery Co., Belleville, N. J. Storage batteries. 297,140; Apr. 29. Class 21.
Mackie-Clemens Fuel Company, The, Pittsburg, Kans. Coal. 295,489; Apr. 29. Class 1.
Magnus Publishing Company, Inc., New York, N. Y. Magazine. 296,705; Apr. 29. Class 38.
Maine Coal & Dock, Inc., Bangor, Me. Coal. 296,535; Apr. 29. Class 1.
Marquis Francis, New York, N. Y. Periodical publication. 296 071; Apr. 29. Class 38.
Martha Washington Candies Company, Chicago, Ill. Candies. 294,985; Apr. 29. Class 46.
Martin, Francis E., doing business as F. E. Martin & Co., Lake Bluff, Ill. Lubricating-oil compounds. 295,631; Apr. 29. Class 15.
Masury, John W., & Son, Brooklyn, N. Y. Ready-mixed paints, lacquers, and varnishes. 296,429; Apr. 29. Class 16.
McKesson, Elmer I., doing business as Toledo Technical Applicance Co., Toledo, Ohio. Apparatus for handling liquid and gas from patients and parts of said apparatus. 296,658; Apr. 29. Class 44.
McKesson, Elmer I., doing business as McKesson Appliance Co., Toledo, Ohio. Respiration-testing and gas-administration apparatus and parts therefor. 296,659; Apr. 29. Class 44.
McVitie and Price, Limited, London, England, and Edinburgh, Scotland. Biscuits, chocolate-coated biscuits and cakes. 296,708; Apr. 29. Class 46.
Mercedes Co-Operative Association, Mercedes, Tex. Fresh fruits and vegetables. 297,375; Apr. 29. Class 46.
Merdan, Alexander, New York, N. Y. Automatic safety valve. 295,340; Apr. 29. Class 13.
Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetic. 297,314; Apr. 29. Class 6.
Midland Milling Company, The, Kansas City, Mo. Wheat flour, bread, corn meal, etc. 294,272; Apr. 29. Class 46.
Miller, John F., Detroit, Mich. Charts for recording physical and mental development of a child. 297,565; Apr. 29. Class 26.
Monark Battery Company, Chicago, Ill. Storage batteries. 293,059; Apr. 22. Class 21.
Mountain States Honey Producers Association, Boise, Idaho. Extracted honey. 297,451; Apr. 22. Class 46.
Munter, Charles, New York, N. Y. Corsets, brassières, girdles, etc. 294,854; Apr. 29. Class 39.

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Musebeck Shoe Company, Danville, Ill. Shoes and insoles for shoes. 296,076; Apr. 29. Class 39.
Mutual Orange Distributors Redlands, Calif. Fresh citrus fruit. 284,990; Apr. 29. Class 46.
Nashville Laboratories Incorporated, Nashville, Tenn. Ointment. 295,383; Apr. 29. Class 6.
National Bead Co., Inc., New York, N. Y. Liquid dressings and for coating compounds. 297,319; Apr. 29. Class 6.
National Bellas Hess Co. Inc., New York, N. Y. Underwear, trousers and knickers. 280,726; Apr. 29. Class 39.
National Fuel Company, Denver, Colo. Coal. 294,887; Apr. 29. Class 1.
National Oil Products Co. Inc., Harrison, N. J. Preparations of animal, vegetable, and mineral oils for industrial uses. 283,888; Apr. 29. Class 6.
Neenah Paper Company, Neenah, Wis. Bond, ledger, writing, map, and index paper. 297,264; Apr. 29. Class 37.
Neenah Paper Company, Neenah, Wis. Paper. 297,267; Apr. 29. Class 37.
Neoderm Company, Los Angeles, Calif. Medicinal preparations. 296,433; Apr. 29. Class 6.
New England High-Carbon Wire Co., Millbury, Mass. Spring wire. 296,138; Apr. 29. Class 14.
New York Lubricating Oil Company, New York, N. Y. Lubricating oils. 296,878; Apr. 29. Class 15.
Nightingale Radio Manufacturing Company. (See Fite, L. E.)
No-B-O Co. (See Horn, Clarence E.)
North American Beppu Mineral Water Company. (See Kikuchi, Hideki.)
Norton, John W., doing business as Southland Nut Company, Oklahoma City, Okla. Hulled peanuts. 296,973; Apr. 29. Class 46.
Oneida Community, Limited, Oneida, N. Y. Silver-plated flatware, hollow ware, and cutlery. 296,436; Apr. 29. Class 28.
Orlando Canning Company, Orlando, Fla. Canned and fresh citrus fruits. 296,880; Ar. 29. Class 46.
Osage Coal Company, Morgantown, W. Va. Coal. 296,668; Apr. 29. Class 1.
Package Sealing Products Comany, Philadelphia, Pa. Gummed-paper sealing tape. 296,493; Apr. 29. Class 37.
Packer Manufacturing Company, Inc., The, New York, N. Y. Tonic for the scalp. 296,494; Apr. 29. Class 6.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Pins, snap fasteners, bias tape, etc. 296,817; Apr. 29. Class 40.
Plough, Inc., doing business as The St. Joseph's Laboratories, Memphis, Tenn. Laxative medicinal preparation. 296,079; Apr. 29. Class 6.
Polefsky, Jacob S., New York N. Y. Barley-malt extract. 297,096; Apr. 29. Class 46.
Polygon Products Co., Boston, Mass. Penetrating oil and rust-dissolving lubricant. 294,177; Apr. 29. Class 15.
Pottsville Canning Co. Inc., Pottsville, Pa. Candy. 297,693; Apr. 29. Class 46.
Powers, Charles A., doing business as Powers. Sloan & Co., Bloomfield, Iowa. Medicine. 289,983; Apr 29. Class 6.
Pratt Chuck Company, The, Frankfort, N. Y. Exhaust mufflers. 296,235; Apr. 29. Class 23.
Pratt & Lambert, Inc., Buffalo, N. Y. Varnishes, paint enamels, lacquers, etc. 295,347; Apr. 29. Class 16.
Premo Pharmaceutical Laboratories. (See Blackman & Blackman, Inc.)
Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 295,637; Apr. 29. Class 4.
Public Baking Co., Inc., New York, N. Y. Bread. 297,379; Apr. 29. Class 46.
R. H. Products Company, The, Spokane, Wash. Tablets. 283,219; Apr. 29. Class 6.
Read-Taylor Company, The, Baltimore, Md. Photographs and engravings. 286,195; Apr. 29. Class 38.
Republic Knitting Mills Inc., Brooklyn, N. Y. Men's sport wearing apparel. 295,388; Apr. 29. Class 39.
Republic Paint & Varnish Works, Chicago, Ill. Paint, blackboard slating, gold enamel, etc. 258,495; Apr. 29. Class 16.
Richfield Oil Company of California, Los Angeles, Calif. Gasoline. 289,477; Apr. 29. Class 15.
Rigdon, Vilas W., doing business as Rigdon Products Co., San Diego, Calif. Automobile paint. 284,546; Apr. 29. Class 16.
Roberts, Lillian, doing business as Roberts Company, Chicago, Ill. Hair tonic and ointment for the hair. 288,568; Apr. 29. Class 6.
Röhm & Hass Company, Philadelphia, Pa. Chemicals. 297,331; Apr. 29. Class 6.
Roseth Corporation, Brooklyn, N. Y. Valises, hand bags, and trunks. 296,824; Apr. 29. Class 3.
Royal Canadian Distributing Co., Des Moines, Iowa. Malt beverages. 292,422; Apr. 29. Class 48.
Royal Importing Co., New York, N. Y. Noodles, flakes, and macaroni. 279,358; Apr. 29. Class 46.
Sager, Solomon M., Evanston, Ill. Eyewash cup or receptacle. 293,900; Apr. 29. Class 44.
St. Joseph's Laboratories, The. (See Plough, Inc.)
Sanfilippo, Gaetano, Philadelphia, Pa. Javelle water. 295,956; Apr. 29. Class 6.
Saylor Electric & Manufacturing Company, Detroit, Mich. Nonmetallic electrical conduit. 290,034; Apr. 29. Class 21.
Scadron, Louis H., New York, N. Y. Optical instruments. 290,973; Apr. 29. Class 26.
Schoble, Frank, & Co., Philadelphia, Pa. Men's felt hats. 295,891; Apr. 29. Class 39.
Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, knickerbockers, etc. 296,549; Apr. 29. Class 39.
Schwannecke, Frederick A., New Rochelle, N. Y. Eyebrow and eyelash grower, paste eye shadow, and powdered eye shadow. 282,757; Apr. 29. Class 6.
Scoville Canning Company, Inc., New York, N. Y. Canned grapefruit, canned grapefruit juice, canned pineapple, etc. 296,550; Apr. 29. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Vacuum outing jugs and canvas water bags. 296,028; Apr. 29. Class 2.
Sears, Roebuck and Co., Chicago, Ill. Vacuum outing jugs. 296,029; Apr. 29. Class 2.
Secret, John S., Hepzibah, W. Va. Toasted salted peanuts. 290,330; Apr. 29. Class 46.
Shull Candy Company, Inc., Lancaster, Pa. Candy. 297,384; Apr. 29. Class 46.
Sibson & Stern Inc., Philadelphia, Pa. Clothes sacks, laundry sacks, ice bags, etc. 279,761; Apr. 29. Class 2.
Simmons-Boardman Publishing Co., New York, N. Y. Magazine. 278,664; Apr. 29. Class 38.
Sinette Electrical Laboratories, Long Beach, Calif. Electrical device producing an alternating sinusoidal wave current. 293,010; Apr. 29. Class 44.
Sklar, Harry M., Brooklyn, N. Y. Writing and stamping ink. 296,779; Apr. 29. Class 11.
Sluts, Nathan, doing business as Sunshine Food Product Co., Philadelphia, Pa. Malt syrup. 283,971; Apr. 29. Class 46.
Socco Company, Inc., The, Monroe, La. Medicinal and pharmaceutical preparation. 295,814; Apr. 29. Class 6.
Societe de l'Institut de Serotherapie Hemopoietique, Societe Anonyme, Romainville, France. Organic serum. 294,781; Apr. 29. Class 6.
Societe des Laboratoires des Poxytases, Societe Anonyme, Paris, France. Medicinal preparation. 297,156; Apr. 29. Class 6.
Southland Nut Company. (See Norton, John W.)
Spencer, J. W., doing business as Hygienic Laboratories, New Orleans, La. Syringes. 297,282; Apr. 29. Class 44.
Spencer, J. W., doing business as Hygienic Laboratories, New Orleans, La. Antiseptic, germicidal, and therapeutic composition. 297,283–4; Apr. 29. Class 6.
Spic & Span Stores Inc., Topeka, Kans. Casement, clothesline, screen, etc. 286,800; Apr. 29. Class 13.
Stanavo Specification Board, Inc., New York, N. Y. Oils and greases. 296,830; Apr. 29. Class 15.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Mineral oil. 296,832–3; Apr. 29. Class 6.
Stanley Works, The, New Britain, Conn. Hammers. 284,826; Apr. 29. Class 23.
Stone & Gropper, Inc., New York, N. Y. Hand bags. 297,546; Apr. 29. Class 3.
Strathmore Paper Company, Mittineague, Mass. Writing and printing paper. 297,214; Apr. 29. Class 37.
Sunshine Food Product Co. (See Sluts, Nathan.)
Sylvania Industrial Corporation, New York, N. Y. Sheets made of regenerated cellulose. 297,388; Apr. 29. Class 1.
Tarr, James H., Company, Ltd., Gloucester, Mass. Paints. 276,585; Apr. 29. Class 16.
Thau, Charles K., doing business as Laura Hair Novelty Co., New York, N. Y. Hair nets. 297,506; Apr. 29. Class 42.
Thomas Overall Mfg. Co. (See Cowden Mfg. Co.)
Tobacco Rehandling Co., Ltd., The, doing business as W. T. Grant & Co. Branch, Louisville, Ky. Leaf tobacco. 297,161; Apr. 29. Class 17.
Toledo Technical Appliance Co. (See McKesson, Elmer I.)
United Electric Coal Companies, Chicago, Ill. Coal. 296,458; Apr. 29. Class 1.
United States Gypsum Company, Chicago, Ill. Paint colors and plastic paint. 291,370; Apr. 29. Class 16.
Valentine & Company, New York, N. Y. Ready-mixed paints, varnish stains, and varnish enamels. 297,038; Apr. 29. Class 16.
Vellner, Eugene, doing business as Eugene Vellner, Philadelphia, Pa. Oils and greases for textiles. 295,769; Apr. 29. Class 6.
Velveteen Manufacturing Corporation Incorporated, Danville, Va. Preparation for removing kinks from human hair. 296,505; Apr. 29. Class 6.
Victor Manufacturing & Gasket Co., Chicago, Ill. Sheet packing. 292,303; Apr. 29. Class 35.
Victor Manufacturing & Gasket Co., Chicago, Ill. Gaskets. 292,643; Apr. 29. Class 35.

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Voisophone Company, The, Wausau, Wis. Unitary phonographic reproducing apparatus. 292,132; Apr. 29. Class 21.
Von Winkler Laboratories, Inc., Chicago, Ill. Pharmaceutical composition. 297,340; Apr. 29. Class 6.
Wabasha Roller Mill Company, Wabasha, Minn. Wheat flour. 296,466; Apr. 29. Class 46.
Walden, Stevens, Incorporated, Worcester, Mass. Trade paper. 294,030; Apr. 29. Class 38.
Wana-Bokay Flower Gardens, Joplin, Mo. Bulbs, plants, and cut flowers. 294,938; Apr. 29. Class 1.
Weber Baking Company, Irvington, N. J. Bread. 297,217; Apr. 29. Class 46.
West, Howard R., doing business as West Poultry Products Company, Martinsville, Ohio. Medical preparation. 286,001; Apr. 29. Class 6.
Western Electric Company, Incorporated, New York, N. Y. Electrical systems and parts thereof. 296,093; Apr. 29. Class 21.
Western Land Roller Company, Hastings, Nebr. Land rollers. 295,775; Apr. 29. Class 23.
Westinghouse Lamp Company, Bloomfield, N. J. Vacuum or gas-filled tubes, and particularly for voltage-regulator tubes. 296,620; Apr. 29. Class 21.
Worthy Manufacturing Company, Chicago, Ill. Children's play suits and overalls. 297,110; Apr. 29. Class 39.
White & Wyckoff Mfg. Co., Holyoke, Mass. Writing tablets, composition books, and notebooks. 297,561; Apr. 29. Class 37.
Wickstrom & Co. Inc., Chicago, Ill. Automobile jacks. 296,460; Apr. 29. Class 23.
Wile, Albert D., doing business as Kentucky Kernels Company, Louisville, Ky. Shelled nuts. 296,791; Apr. 29. Class 46.
Williams, Harry, Nashville, Tenn. Mixed meat flavored with spices and other flavoring. 283,074; Apr. 29. Class 46.
Yawman and Erbe Mfg. Co., Rochester, N. Y. Binders and file boards, file compressors, file guides, etc. 295,144; Apr. 29. Class 37.
Zapon Company, The, Wilmington, Del. Waterproofed textile fabrics. 295,823; Apr. 29. Class 50.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 3

Holder, Automobile operator's credentials. A. O. Cobbs. 270,272; Apr. 29.

CLASS 4

Abrasive papers and cloths. United States Sand Paper Co. 270,194–5; Apr. 29; Serial Nos. 285,537–8; published Feb. 4, 1930.
Cleaner and water softener, Crystal. Midland Chemical Laboratories, Inc. 270,120; Apr. 29; Serial No. 293,334; published Feb. 11, 1930.
Cleaning and polishing material. Silver Suds Manufacturing Company. 270,130; Apr. 29; Serial No. 293,384; published Feb. 11, 1930.
Cleaning compound for metals. General Electric Company. 270,106; Apr. 29; Serial No. 293,996; published Feb. 11, 1930.
Cleaning liquid, Dry-. H. R. Bass. 270,191; Apr. 29; Serial No. 287,106; published Feb. 4, 1930.
Cream, Combination nonlather shaving and roll-out massage. A. W. Comstock. 270,280; Apr. 29.
Preparation for cleaning glass, Liquid. Jewel Chemical Company. 270,107; Apr. 29; Serial No. 293,977; published Feb. 11, 1930.
Preparation for shaving. B. H. Waltz. 270,117; Apr. 29; Serial No. 293,701; published Feb. 11, 1930.
Soap. Mitchell Wing Company. 270,227; Apr. 29; Serial No. 284,482; published Feb. 11, 1930.
Soap and hand cleaners, Hand, liquid, powdered, etc. A. R. Everson. 270,181; Apr. 29; Serial No. 291,719; published Feb. 11, 1930.
Soap, Liquid filter. Midland Chemical Laboratories, Inc. 270,119; Apr. 29; Serial No. 293,335; published Feb. 11, 1930.
Soap, Toilet. Boag, Incorporated. 270,129; Apr. 29; Serial No. 293,513; published Feb. 11, 1930.
Soaps and scouring powder. Liquid Dehydration Corporation. 270,102; Apr. 29; Serial No. 285,571; published Feb. 4, 1930.
Washing powders. Thomas Moffat Company. 270,176; Apr. 29; Serial No. 292,365; published Feb. 4, 1930.

CLASS 6

Acid, pyrazolone, benzyl benzoate, etc., Acetyl salicyclic. Société Parisienne d'Expansion Chimique S. P. E. C. I. A. 270,232; Apr. 29; Serial No. 286,516; published Feb. 11, 1930.
Acids, Organic. National Aniline & Chemical Company. 270,213; Apr. 29; Serial No. 290,788; published Feb. 11, 1930.
Analgesic. H. B. Durand. 270,233; Apr. 29; Serial No. 288,181; published Feb. 11, 1930.
Antiseptic. Riedel & Co. Inc. 270,205; Apr. 29; Serial No. 292,177; published Feb. 11, 1930.
Cardiacum, asthmaticum, and preparation for preventing coagulation of blood. Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft. 270,234; Apr. 29; Serial No. 288,741; published Feb. 11, 1930.
Cold capsule. M. Goldman. 270,097; Apr. 29; Serial No. 293,828; published Feb. 11, 1930.
Cream, Face. B. B. Goldenberg. 270,263; Apr. 29.
Hair dye, hair oil, waving lotions, astringents, etc. Charles of the Ritz. 270,173; Apr. 29; Serial No. 262,292; published Feb. 11, 1930.
Insecticides. A. T. Repp. 270,096; Apr. 29; Serial No. 293,852; published Feb. 11, 1930.
Laxatives. D. N. Robin. 270,102; Apr. 29; Serial No. 293,004; published Feb. 11, 1930.
Medicinal herb tea. A. Hoffmann. 270,262; Apr. 29.
Medicinal pills, laxative and purgative pills, etc. A. G. Collazo. 270,275; Apr. 29.
Medicinal preparation. Wm. S. Merrell Company. 270,103; Apr. 29; Serial No. 293,001; published Feb. 11, 1930.
Medicinal preparations. I. Bernstein. 270,099; Apr. 29; Serial No. 293,817; published Feb. 11, 1930.
Medicine, Laxative. A. L. Manning. 270,202; Apr. 29; Serial No. 292,770; published Feb. 11, 1930.
Oil and perfume for baths. M. V. Dorn. 270,274; Apr. 29.
Perfumes, cosmetical creams, scalp waters, etc. Georg Schicht A. G. 270,217; Apr. 29; Serial No. 279,390; published Feb. 11, 1930.
Powders, Face. Crystal Chemical Company. 270,204; Apr. 29; Serial No. 292,489; published Feb. 11, 1930.
Preparation for rheumatism. T. C. Harris. 270,230; Apr. 29; Serial No. 285,207; published Feb. 11, 1930.
Preparation for softening fur garments. Betzold Brothers, Inc. 270,098; Apr. 29; Serial No. 293,818; published Feb. 11, 1930.
Preparation for the relief of colds, etc. L. M. Faught. 270,254; Apr. 29.
Preparation for the treatment of chapped hands and face, sunburn, etc. Monticello Drug Company. 270,154; Apr. 29; Serial No. 289,240; published Feb. 4, 1930.
Salve. L. Cannon. 270,199; Apr. 29; Serial No. 289,917; published Feb. 11, 1930.
Salve used for pains and sprains. W. C. Ambry. 270,278; Apr. 29.
Tonic, Hair. Falfurrias Chemical Company. 270,198; Apr. 29; Serial No. 290,014; published Feb. 11, 1930.

CLASS 8

Tobacco pouches, cigarette cases, and cigar cases. Hookless Fastener Company. 270,090; Apr. 29; Serial No. 294,255; published Feb. 18, 1930.

CLASS 9

Matches. Columbia Match Company. 270,114–15; Apr. 29; Serial Nos. 293,716–17; published Feb. 18, 1930.
Matches. Columbia Match Company. 270,116; Apr. 29; Serial No. 293,714; published Feb. 18, 1930.

CLASS 10

Fertilizer. Evergreen Products Company. 270,212; Apr. 29; Serial No. 291,253; published Feb. 18, 1930.
Manure. Davey Tree Expert Co. 270,267; Apr. 29.

CLASS 11

Carbon paper. Columbia Ribbon & Carbon Manufacturing Company. 270,207; Apr. 29; Serial No. 291,907; published Feb. 18, 1930.
Ink and stylo container combined, Marking. J. P. Nissen, jr. 270,231; Apr. 29; Serial No. 285,982; published Feb. 25, 1930.
Ink, Printing. O. Lauer. 270,093; Apr. 29; Serial No. 294,075; published Feb. 18, 1930.
Inks, Writing and printing. Alco-Gravure, Incorporated. 270,240–1; Apr. 29.

CLASS 12

Plaster or cementitious material. Creo-Dipt Company. 270,235; Apr. 29; Serial No. 293,520; published Feb. 11, 1930.
Tiles, Floor, wall, and ceiling. Mossic Tile Company. 270,237; Apr. 29.

CLASS 13

Siphons, Automatic. Self-Siphon Mfg. Co. 270,268; Apr. 29.

CLASS 14

Metals and metal articles, Certain. Henry Rossell & Co. 77,729; renewed May 3, 1930.
Steel. Henry Rossell & Co. 76,999; renewed Mar. 1, 1930.

CLASS 15

Oil, Motor-lubricating. Topp Oil & Supply Co. 270,252; Apr. 29.
Oils, greases, kerosene, and gasoline. Oilrite Corporation. 270,288; Apr. 29.

CLASS 16

Oil, Polishing. Parker-Regan Corporation. 270,248; Apr. 29.
Paint. Detroit Graphite Company. 270,108; Apr. 29; Serial No. 293,962; published Feb. 11, 1930.
Painters' materials. Stockton Paint Company. 79,237; renewed Aug. 16, 1930.
Paints. American Wurtzilite Company. 270,196; Apr. 29; Serial No. 292,707; published Feb. 4, 1930.
Plastic wall covers, finishes, and painter's sizing. Plastic Stone Products Corp. 270,188; Apr. 29; Serial No. 288,815; published Feb. 4, 1930.
Putty or puttylike material. Creo-Dipt Company. 270,128; Apr. 29; Serial No. 293,519; published Feb. 11, 1930.

CLASS 17

Cigars. Bayuk Cigars Incorporated. 270,242; Apr. 29.

CLASS 19

Trucks and chassis, Motor delivery. Standard Motor Truck Company. 270,290; Apr. 29.
Trucks and chassis, Motor delivery. Standard Motor Truck Company. 270,293; Apr. 29.

CLASS 22

Dolls. F. Keeler. 270,247; Apr. 29.
Fishing and casting reels. South Bend Bait Co. 270,286; Apr. 29.
Toy flying machines. R. Tanner. 270,277; Apr. 29.

CLASS 23

Belts, Woven-wire conveyor. Wickwire Spencer Steel Company. 270,276; Apr. 29.
Broaching machines and broaches. La Pointe Machine Tool Company. 270,085; Apr. 29; Serial No. 293,737; published Feb. 18, 1930.
Dishwashing apparatus. Couch & Dean, Inc. 270,122; Apr. 29; Serial No. 294,624; published Feb. 18, 1930.
Dough-mixing machines and parts thereof. American Oven & Machine Co. 270,138; Apr. 29; Serial No. 286,851; published Feb. 18, 1930.
Fire extinguishers. Security Mfg. Company. 270,171; Apr. 29; Serial No. 291,698; published Feb. 18, 1930.
Hammers, Aluminum. Werra Aluminum Foundry Co. 270,133; Apr. 29; Serial No. 277,521; published Feb. 18, 1930.
Knives, butcher knives, and bread knives, Paring. S. H. Kress & Co. 270,255; Apr. 29.
Lathes. Sidney Machine Tool Company. 270,216; Apr. 29; Serial No. 278,624; published Feb. 18, 1930.
Machines, Centrifugal. Sharples Specialty Company. 270,295; Apr. 29.
Razor blades, Safety-. W. J. Cameron. 270,088; Apr. 29; Serial No. 293,208; published Feb. 28, 1930.
Screens and grain-screening apparatus, Woven-wire. W. S. Tyler Company. 270,238; Apr. 29.
Spoons, forks, and knives, etc., Stainless-steel. Boye Needle Co. 270,294; Apr. 29.
Tools, Bottle-capping. Tilt Top Mfg. Co. 270,164; Apr. 29; Serial No. 276,052; published Feb. 18, 1930.
Tools, Certain. Henry Rossell & Co. 79,009; renewed July 26, 1930.
Tools, Machine. Henry Rossell & Co. 77,730; renewed May 3, 1930.
Tractor plows, tractor manure spreaders, planers, etc., Moldboard. United Tractor & Equipment Corporation. 270,141; Apr. 29; Serial No. 286,091; published Feb. 18, 1930.

CLASS 26

Blue-print papers and cloth, brown-print papers and cloth, etc. Charles Bruning Company. 270,162; Apr. 29; Serial No. 285,245; published Feb. 4, 1930.
Goggles, spectacles, and the like, antidazzle devices for attachment to. H. Cloran. 270,169; Apr. 29; Serial No. 292,601; published Feb. 18, 1930.
Picture machines and parts thereof, cameras, photographic lenses, etc., Coin-operated electric sound-moving-. R. C. Belgan. 270,158; Apr. 29; Serial No. 289,176; published Feb. 18, 1930.
Sound-picture apparatus. General Talking Pictures Corporation. 270,284; Apr. 29.

CLASS 27

Watches and watch movements. W. A. Muney. 270,224; Apr. 29; Serial No. 283,582; published Feb. 18, 1930.

CLASS 29

Mops, brushes, brooms, etc. Charter Oak Brush Company. 270,200–1; Apr. 29; Serial Nos. 292,977–8; published Feb. 18, 1930.

CLASS 31

Ice-cream freezers. Instant Freezer Corporation. 270,236; Apr. 29.

CLASS 32

Cabinets and shields, Radiator. Edward C. Bowers and Charles L. Feldman. 270,087; Apr. 29; Serial No. 293,512; published Feb. 18, 1930.
Counter-display cases of all kinds. Perfection Glass Company. 270,160; Apr. 29; Serial No. 285,424; published Feb. 18, 1930.
Pillows and cushions. L. Buchman Co. Inc. 270,140; Apr. 29; Serial No. 286,152; published Feb. 18, 1930.
Tables, Folding. Lorraine Metal Manufacturing Company. 270,124; Apr. 29; Serial No. 294,480; published Feb. 18, 1930.

CLASS 35

Brake linings. Allbestos Corporation. 270,086; Apr. 29; Serial No. 293,613; published Feb. 18, 1930.
Brake linings, Allbestos Corporation. 270,163; Apr. 29; Serial No. 292,963; published Feb. 18, 1930.
Composition frictional elements for brakes. American Brake Materials Corporation. 270,256; Apr. 29.
Tires and inner tubes, Vehicle. Pep Boys, Manny, Moe & Jack. 270,251; Apr. 29.
Tires for vehicles, Rubber. United States Rubber Company. 270,155; Apr. 29; Serial No. 290 803; published Feb. 18, 1930.

CLASS 37

Paper. Warren Manufacturing Co. 270,156; Apr. 29; Serial No. 290,637; published Jan. 7, 1930.
Pencils, Lead and copying. Grafo Pencil Company. 270,285; Apr. 29.

CLASS 38

Nom de plume for a fashion page in a weekly newspaper. Philadelphia Inquirer Co. 270,279; Apr. 29.

CLASS 39

Aprons. Carson Pirie Scott & Co. 270,110; Apr. 29; Serial No. 293,770; published Feb. 18, 1930.
Boots, shoes, and slippers. Jarman Shoe Company. 270,220; Apr. 29; Serial No. 281,836; published Feb. 18, 1930.
Boots, shoes, slippers, and pumps. Ault-Williamson Shoe Co. 270,249; Apr. 29.
Chemises, princess slips, bloomers, etc. I. Schneierson & Son, Inc. 270,143; Apr. 29; Serial No. 292,832; published Feb. 11, 1930.
Chemises, princess slips, bloomers, etc. I. Schneierson & Son, Inc. 270,144; Apr. 29; Serial No. 292,830; published Feb. 11, 1930.
Clothes, Men's. P. Feinstein & Sons. 270,187; Apr. 29; Serial No. 290,347; published Feb. 18, 1930.
Clothing, Men's. Paul Mandel and Bro. 270,174; Apr. 29; Serial No. 257,297; published Feb. 11, 1930.
Coats. Carson Pirie Scott & Co. 270,168; Apr. 29; Serial No. 267,536; published Feb. 18, 1930.
Coats and suits. J. Maimon & Son. 270,253; Apr. 29.
Coats, particularly fur and leather coats. H. D. Fertel. 270,257; Apr. 29.
Coats, trousers, overalls, and shirts. Rummel, Hines & Company. 270,142; Apr. 29; Serial No. 292,007; published Feb. 11, 1930.
Collars, negligee and dress shirts. Cluett, Peabody & Co. 270,265; Apr. 29.
Collars, pajamas, night robes, etc. Vanderbilt Mills, Inc. 270,161; Apr. 29; Serial No. 285,311; published Feb. 11, 1930.
Dresses. Glorious Dresses, Inc. 270,113; Apr. 29; Serial No. 293,725; published Feb. 18, 1930.
Dresses. Justin McCarty, Inc. 270,151; Apr. 29; Serial No. 291,011; published Feb. 11, 1930.
Dresses. Rosenau Bros. Inc. 270,104; Apr. 29; Serial No. 293,556; published Feb. 11, 1930.
Dresses and coats. B. Gertz, Incorporated. 270,206; Apr. 29; Serial No. 291,975; published Feb. 18, 1930.
Dresses and smocks. Forest City Mfg. Co. 270,190; Apr. 29; Serial No. 287,130; published Feb. 18, 1930.
Frocks and dresses. J. M. Goldson. 270,079; Apr. 29; Serial No. 293,426; published Feb. 11, 1930.
Hats. Lancaster Merc. Co. Inc. 270,248; Apr. 29.
Hats and caps, Boys' and men's. Hall and Hall Co. 270,250; Apr. 29.
Hats and caps, Men's and boys'. Filfield Ltd. 270,094; Apr. 29; Serial No. 294,044; published Feb. 18, 1930.
Hats, Ladies'. United Millinery Stores Co. 270,091; Apr. 29; Serial No. 294,243; published Feb. 18, 1930.
Heels for shoes. United States Rubber Company. 270,214; Apr. 29; Serial No. 290,630; published Feb. 18, 1930.
Hosiery. American Hosiery Mills. 270,193; Apr. 29; Serial No. 285,545; published Feb. 11, 1930.
Hosiery. C. Brand. 270,223; Apr. 29; Serial No. 283,247; published Feb. 18, 1930.
Hosiery. J. L. Hudson Company. 270,145; Apr. 29; Serial No. 292,729; published Feb. 11, 1930.
Hosiery. Phoenix Hosiery Company. 270,118; Apr. 29; Serial No. 293,688; published Feb. 18, 1930.
Hosiery. Roman Stripe Mills, Inc. 270,112; Apr. 29; Serial No. 293,748; published Feb. 18, 1930.
Knickers and knee pants, Boys'. Wearfine Pants Corp. 270,270; Apr. 29.
Overalls. Winder Manufacturing Company. 270,149; Apr. 29; Serial No. 291,856; published Feb. 11, 1930.
Overalls, denim jackets, shirts, etc. John S. Brittain Dry Goods Company. 270,146; Apr. 29; Serial No. 292,715; published Feb. 11, 1930.

Overcoats. F. C. Huyck & Sons. 270,147; Apr. 29; Serial No. 292,357; published Feb. 11, 1930.
Robes, house coats, bath robes, and smoking jackets, Lounging. Van Baalen Heilbrun & Co. 270,177; Apr. 29; Serial No. 291,895; published Feb. 18, 1930.
Semiskirts. Nathan & Cohen Co. 270,246; Apr. 29.
Shirts and drawers and union suits. Standard Knitting Mills. 270,245; Apr. 29.
Shirts and jackets. Carlton Mills, Inc. 270,165; Apr. 29; Serial No. 275,825; published Feb. 11, 1930.
Shirts and pajamas. Louis Baskind & Co. 270,153; Apr. 29; Serial No. 289,262; published Feb. 11, 1930.
Shirts and pajamas, Dress and negligee. Ha-Ber-San Manufacturing Corp. 270,261; Apr. 29.
Shirts and ties. M. R. Gray. 270,175; Apr. 29; Serial No. 292,627; published Feb. 11, 1930.
Shirts, drawers, and union suits. Standard Knitting Mills. 270,215; Apr. 29; Serial No. 278,266; published Feb. 11, 1930.
Shirts, Dress. M. H. Rosen & Company. 270,258; Apr. 29.
Shirts, neckties, scarfs, etc. Wm. T. Knott Co. 270,150; Apr. 29; Serial No. 291,622; published Feb. 11, 1930.
Shirts, Outer dress. Yorke Shirt Company. 270,182; Apr. 29; Serial No. 291,252; published Feb. 18, 1930.
Shirts, Work. H. G. Giles. 270,185; Apr. 29; Serial No. 290,402; published Feb. 18, 1930.
Shoes. McCain-Wright, Inc. 270,244; Apr. 29.
Shoes. Virginia Shoe Company. 270,197; Apr. 29; Serial No. 290,044; published Feb. 18, 1930.
Shoes, dresses, and coats. Palmer Apparel Shop. 270,259; Apr. 29.
Shoes, Men's. Cornell Shoe Co. 270,287; Apr. 29.
Shoes, Men's. Sears, Roebuck and Co. 270,100; Apr. 29; Serial No. 293,697; published Feb. 18, 1930.
Slippers. H. Jacob & Sons, Inc. 270,264; Apr. 29.
Slippers. Tupper Slipper Corporation. 270,089; Apr. 29; Serial No. 294,406; published Feb. 18, 1930.
Slippers, House. Norwalk Slipper Co. 270,092; Apr. 29; Serial No. 294,171; published Feb. 18, 1930.
Suits and overcoats. P. Feinstein & Sons. 270,186; Apr. 29; Serial No. 290,348; published Feb. 18, 1930.
Trousers. Bedford Johnson Co. 270,152; Apr. 29; Serial No. 290,878; published Feb. 11, 1930.
Underwear. Julius Kayser & Co. 270,080; Apr. 29; Serial No. 293,328; published Feb. 11, 1930.
Underwear, Ladies'. A. H. Schreiber Company. 270,126; Apr. 29; Serial No. 293,599; published Feb. 18, 1930.
Vests, bloomers, princess slips, etc., Ladies'. Sig Rosenthal Co. 270,183; Apr. 29; Serial No. 291,068; published Feb. 18, 1930.

CLASS 40

Cuff links, buttons, belt buckles, and tie clasps, and glass beads. New York Export Co. 270,210; Apr. 29; Serial No. 281,367; published Feb. 4, 1930.
Pins. S. H. Kress & Co. 270,208; Apr. 29; Serial No. 291,879; published Feb. 18, 1930.

CLASS 41

Umbrellas and parasols. Umby Corporation. 270,111; Apr. 29; Serial No. 293,753; published Feb. 18, 1930.

CLASS 42

Silk, cotton, rayon, and wool, Printed piece goods made from. I. M. Friedman & Co. 270,273; Apr. 29.
Voiles, scrim, and marquisettes in the piece. Kendall Mills, Inc. 270,167; Apr. 29; Serial No. 272,407; published Feb. 11, 1930.

CLASS 45

Beverages and sirups and extracts for making the same. Lakeside Bottling Co. 270,131; Apr. 29; Serial No. 294,392; published Feb. 18, 1930.
Beverages and syrups for making the same, Tonic. Dr. Pepper Company. 270,292; Apr. 29.
Beverages, Maltless. E. I. Hemm. 270,180; Apr. 29; Serial No. 291,726; published Feb. 18, 1930.
Beverages, Maltless. F. Rotella. 270,109; Apr. 29; Serial No. 293,897; published Feb. 18, 1930.
Beverages, Nonalcoholic. Geo. Rasmussen Co. 270,189; Apr. 29; Serial No. 287,426; published Feb. 18, 1930.
Ginger ale. Seminole Bottling Company. 270,260; Apr. 29.
Ginger ale and sirup for making the same. N. Olivieri. 270,206; Apr. 29.
Syrup, Fountain. J. D. Goldschmidt. 270,121; Apr. 29; Serial No. 293,319; published Feb. 18, 1930.

CLASS 46

Alimentary pastes. West Virginia Macaroni Company. 270,203; Apr. 29; Serial No. 292,712; published Feb. 11, 1930.
Asparagus, Fresh. Middlesex Asparagus Growers' Association. 270,228; Apr. 29; Serial No. 284,622; published Feb. 18, 1930.
Bread, cakes, pies, etc. Cambern Corporation. 270,218; Apr. 29; Serial No. 280,891; published Feb. 11, 1930.
Butter, eggs, jam, etc. Fred Wolferson, Incorporated. 270,271; Apr. 29.
Candies, nuts, sandwiches, etc. L. C. McManus. 270,281; Apr. 29.
Candy. George Close Co. 270,083; Apr. 29; Serial No. 293,959; published Feb. 18, 1930.
Candy. Wm. Derrenbacher, Inc. 270,139; Apr. 29; Serial No. 286,228; published Feb. 18, 1930.
Candy bars. Akron Candy Company. 270,137; Apr. 29; Serial No. 287,395; published Feb. 18, 1930.
Candy, bread, cake, etc. J. Walter. 270,166; Apr. 29; Serial No. 274,140; published Feb. 11, 1930.
Canned peas, shrimp, and peaches. Francis H. Leggett & Company. 270,221; Apr. 29; Serial No. 282,658; published Feb. 18, 1930.
Canned salmon. New England Fish Company. 270,125; Apr. 29; Serial No. 294,434; published Feb. 18, 1930.
Canned sliced and crushed pineapple and pineapple juice. Hawaiian Canneries Company. 270,211; Apr. 29; Serial No. 288,803; published Feb. 11, 1930.
Canned vegetables. Waldo Canning Co. 270,269; Apr. 29.
Cherries, apricots, pears, etc., Fresh. Universal Fruit Company. 270,157; Apr. 29; Serial No. 290,633; published Feb. 18, 1930.
Chocolates. Ingersol Candy Co. 78,179; renewed May 31, 1930.
Cocoa, cocoa butter for food purposes, cocoa powder, etc., Prepared. J. B. van Heusden. 270,184; Apr. 29; Serial No. 290,533; published Feb. 11, 1930.
Coffee. Anna Products Corporation. 270,105; Apr. 29; Serial No. 277,743; published Feb. 11, 1930.
Coffee. B. Fischer & Co. 270,225; Apr. 29; Serial No. 284,396; published Feb. 11, 1930.
Cranberries, Fresh. Merchants Fruit & Produce Co. 270,082; Apr. 29; Serial No. 294,230; published Feb. 18, 1930.
Dates and figs. Smyrna Imports Co. 270,222; Apr. 29; Serial No. 283,013; published Feb. 18, 1930.
Food, Prepared. Ronzoni Macaroni Co. 270,229; Apr. 29; Serial No. 288,484; published Feb. 11, 1930.
Food products. J. Minervini. 270,178; Apr. 29; Serial No. 290,373; published Feb. 11, 1930.
Foods, Certain. Gordon & Dilworth. 78,792; renewed July 12, 1930.
Fruit preserves, candied fruits, crystallized fruits, etc. J. W. Roberts & Son. 270,101; Apr. 29; Serial No. 293,290; published Feb. 11, 1930.
Fruits. Texas Truck Lines, Inc. 270,170; Apr. 29; Serial No. 291,746; published Feb. 18, 1930.
Fruits, Fresh citrus. L. B. Skinner. 270,123; Apr. 29; Serial No. 294,596; published Feb. 18, 1930.
Fruits, Fresh deciduous. Interstate Fruit Growers, Inc. 270,134; Apr. 29; Serial No. 277,371; published Feb. 18, 1930.
Fruits, grapes, berries, Fresh. Penryn Fruit Co. 270,148; Apr. 29; Serial No. 292,044; published Feb. 18, 1930.
Gum, Listerated. W. E. Easterwood, jr. 270,289; Apr. 29.
Ice cream. Banner Creamery Company. 270,239; Apr. 29.
Ice cream. Linbrook Ice Cream Company. 270,226; Apr. 29; Serial No. 284,475; published Feb. 11, 1930.
Marmalade in jars, Orange. F. Wildhack. 270,291; Apr. 29.
Milk and evaporated milk, Condensed. American Milk Products Corporation. 270,132; Apr. 29; Serial No. 294,134; published Feb. 11, 1930.
Poultry. Risser & Rabinowits, Inc. 270,135; Apr. 29; Serial No. 293,486; published Feb. 18, 1930.
Poultry. Suffolk County Duck Growers Association of Long Island. 270,136; Apr. 29; Serial No. 288,256; published Feb. 18, 1930.
Preserves, Fruit. Henry Pape, Inc. 270,084; Apr. 29; Serial No. 293,889; published Feb. 18, 1930.
Sauce to be served with hot and cold meats. N. H. Fisher. 270,095; Apr. 29; Serial No. 293,963; published Feb. 11, 1930.
Sea food and canned oysters, Fresh. L. R. Carson. 270,283; Apr. 29.
Shortening, Vegetable. Vegetable Oil Products Company. 270,159; Apr. 29; Serial No. 289,050; published Feb. 18, 1930.
Tea and blended coffee. Thurston & Kingsbury. 78,745; renewed July 5, 1930.
Tea, Yerba maté. International Maté Company. 270,172; Apr. 29; Serial No. 291,163; published Feb. 18, 1930.
Vegetables, Fresh. Ashtabula Growers Association. 270,081; Apr. 29; Serial No. 294,288; published Feb. 18, 1930.

CLASS 48

Malt beverage. Filger Company. 270,127; Apr. 29; Serial No. 293,576; published Feb. 18, 1930.
Malt beverages. Geo. Gunther Jr. Brewing Co. 270,282; Apr. 29.

CLASS 50

Awnings, blackboards, bottle caps, etc. L. Bamberger & Co. 270,179; Apr. 29; Serial No. 290,289; published Feb. 18, 1930.
Bottle and jar seals. Ferdinand Gutmann & Co. 270,209; Apr. 29; Serial No. 291,823; published Feb. 18, 1930.
Substitute for glass. C. M. Davies. 270,210; Apr. 29; Serial No. 289,877; published Feb. 18, 1930.

ALPHABETICAL LIST OF LABELS

Barker's Mineraltone for Cows. For Powders Composed of Minerals, Alteratives, and Correctives for Cows. Barker, Moore & Mein Co. 37,390; Apr. 29.
Barker's Mineraltone for Hogs. For Powders Composed of Minerals, Alteratives, and Correctives for Hogs. Barker, Moore & Mein Co. 37,391; Apr. 29.
Barker's Special Poultry Powder. For Powders Composed of Minerals, Alteratives, and Correctives for Poultry. Barker, Moore & Mein Co. 37,392; Apr. 29.
Calcium Gluco-Nate Sandoz. For Chemical Preparations Containing Calcium. Sandoz Chemical Works, Inc. 37,401; Apr. 29.
E-Z Shave. For Preparation to be Used Before Shaving. Smith Bros. 37,402; Apr. 29.
El Estado Lemon Creme. For Face Cream. El Estado Products Company. 37,393-4; Apr. 29.
Franck Tablets. For Chicory Product. Heinr. Franck Sons, Inc. 37,395; Apr. 29.
Gibbs Oystero. For Oyster Stew. Gibbs & Company. 37,396; Apr. 29.
Hello—World. For Cigars. E. B. Strickler. 37,403; Apr. 29.
Hitt's Moonlight Silver Falls. For Pyrotechnic Novelties. Hitt Fireworks Co. 37,398; Apr. 29.
Old Scotch. For Liniment. Old Scotch Remedies. 37,400; Apr. 29.
Ready Fit Caps Adjustable Patented Fits Any Size Head. For Caps. Trade Lithograph & Printing Company Inc. 37,404; Apr. 29.
Skin-Health. For Bath Compound. A. J. Krauk Mfg. Co. 37,399; Apr. 29.
The World's Finest Instrument with Homogenous Sounding Board. For Pianos, Grand Pianos, and Other Keyboard Music Instruments. Grotrian-Steinweg. 37,397; Apr. 29.

ALPHABETICAL LIST OF PRINTS

Cold Temperatures for Warm Friends. For Refrigerating and Ice-Making Machines. L. A. Roser. 12,503; Apr. 29.
Cut-Rite Waxed Paper Keeps Food Fresh—Clean. For Waxed Paper. Automatic Paper Machinery Co. 12,499; Apr. 29.
Factory to Roof. For Asphaltic Roll Roofing. Elaborated Ready Roofing Company. 12,500; Apr. 29.
Flit Kills Easier, Quicker. For Insecticides. Stanco Incorporated. 12,506; Apr. 29.
Flit Kills Flies and Mosquitoes. For Insecticides. Stanco Incorporated. 12,505; Apr. 29.
Healthy Happy Homes Spray Flit. For Insecticides. Stanco Incorporated. 12,509; Apr. 29.
Jacob's Ladder. For Quilting Cotton. Stearns & Foster Co. 12,516; Apr. 29.
No Flies or Skeeters in Our House. For Insecticides. Stanco Incorporated. 12,507; Apr. 29.
Para-Sac Chewing Gum. For Chewing Gum. W. D. Armstrong. 12,498; Apr. 29.
Princess Feather. For Quilting Cotton. Stearns & Foster Co. 12,519; Apr. 29.
Protect the Home, Spray Flit. For Insecticides. Stanco Incorporated. 12,508; Apr. 29.
Protect Your Home . . . Insects are Dangerous. For Insecticides. Stanco Incorporated. 12,504; Apr. 29.
Real Hose Reel Real Bed Table. For Hose Reels and Bed Tables. O. H. Ladewig. 12,502; Apr. 29.
The Chanticleer. For Quilting Cotton. Stearn & Foster Co. 12,511; Apr. 29.
The Conventional Tulip. For Quilting Cotton. Stearns & Foster Co. 12,515; Apr. 29.
The Guide Post. For Quilting Cotton. Stearns & Foster Co. 12,520; Apr. 29.
The Harrison Rose. For Quilting Cotton. Stearns & Foster Co. 12,513; Apr. 29.
The Iris. For Quilting Cotton. Stearns & Foster Co. 12,522; Apr. 29.
The Lone Star. For Quilting Cotton. Stearns & Foster Co. 12,512; Apr. 29.
The Mountain Star. For Quilting Cotton. Stearns & Foster Co. 12,517; Apr. 29.
The Shamrock. For Quilting Cotton. Stearns & Foster Co. 12,521; Apr. 29.
The Sunflower. For Quilting Cotton. Stearns & Foster Co. 12,518; Apr. 29.
The Zig-Zag. For Quilting Cotton. Stearns & Foster Co. 12,510; Apr. 29.
Tree of Paradise. For Quilting Cotton. Stearns & Foster Co. 12,514; Apr. 29.
Yes Sir! That's Hills Bros. Coffee. For Coffee. Hills Bros. 12,501; Apr. 29.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF APRIL, 1930

NOTE.– Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott, Adrian O., jr., assignor to Morgan & Wright, Detroit, Mich. Apparatus for treating tire bands. 1,756,529; Apr. 29.

Abrahams, Simon, New York, N. Y. Gas turbine. 1,756,446; Apr. 29.

Abrams, John M., Brooklyn, N. Y. Air-operated toy. 1,756,050; Apr. 29.

Acuff, George W., jr., St. Louis, Mo. Auxiliary boom for excavators. 1,756,166; Apr. 29.

Adler Manufacturing Co. (See Bloom, Nathan P., assignor.)

Aeschbach, Friedrich, Aarau, Switzerland. Kneading and mixing machine, particularly for pastelike goods. 1,756,078; Apr. 29.

Ahl, Frank Z., Sacramento, Calif. Wall-register construction. 1,756,143; Apr. 29.

Ahrens, Henry T., Charlotte, and O. G. Ahrens, Stockdale, Tex. Cotton gin. 1,756,475; Apr. 29.

Ahrens, Otto G. (See Ahrens, Henry T. and O. G.)

Akron Standard Mold Company, The. (See Fleiter, A. J., Bostwick, and Miller, assignors.)

Akron Standard Mold Company, The. (See Voth, Walter P., assignor.)

Aktiebolaget Ljungstroms Angturbin. (See Eriksson, Erik O., assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Gaudenzi, A., and Kobel, assignors.)

Aktiengesellschaft Brown Boveri & Cie. (See Suter, Philipp, assignor.)

Alchemic Gold Company. (See Weisberg, L., and Stevens, assignors.)

Aldeen, Gedor W., assignor to Fyrac Manufacturing Co., Rockford, Ill. Spotlight. 1,756,530; Apr. 29.

Aldeen, Gedor W., and E. W. North, assignors to Fyrac Manufacturing Co., Rockford, Ill. Post light. 1,756,531; Apr. 29.

Alden, Carroll R., assignor to Ex-Cell-O Aircraft and Tool Corporation, Detroit, Mich. Fuel pump. 1,756,145; Apr. 29.

Alden, Carroll R., assignor to Ex-Cell-O Aircraft and Tool Corporation, Detroit, Mich. Speed-responsive device. 1,756,671; Apr. 29.

Alden, Gardner R., assignor to Dennison Manufacturing Company, Framingham, Mass. Making colored crepe paper with insoluble dyes and resulting product. 1,756,778; Apr. 29.

Allen, Charles A., et al. (See Cummings, Charles D., assignor.)

Allen, William H., and M. E. Standifer, Goose Creek, Tex. Tubing drain. 1,756,499; Apr. 29.

Allensworth, Fred L., Akron, Ohio, assignor to The Miller Rubber Company. Bead-setting ring. 1,756,827; Apr. 29.

Allis, Louis, Company, The. (See Barr, John M., assignor.)

Aluminum Company of America. (See Frary, Francis C., assignor.)

American Bosch Magneto Corporation. (See Cotter, William F., assignor.)

American Chain Company. (See Weston, Alonzo H., assignor.)

American Flyer Mfg. Co. (See Becker, Harry S., assignor.)

American Hair & Felt Company. (See Moller, Conrad G. assignor.)

American Hammered Piston Ring Company, The. (See Morton, Allen W., assignor.)

American Ore Reclamation Company. (See Shallock, Edward W., assignor.)

American Richeroux Company, The. (See Genenger, Richard, assignor.)

American Rubber Company. (See Raymond, Howard A., assignor.)

American Safety Table Company. (See Voigt, Max T., assignor.)

American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)

American Steel Package Company, The. (See Behringer, Grover F., assignor.)

American Telephone and Telegraph Company. (See Niles, E. W., and Edwards, assignors.)

American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)

American Telephone and Telegraph Company. (See Rosekrans, Wilfred M., assignor.)

Ames, Arthur R., La Grange, Ill. Traffic signal. 1,756,144; Apr. 29.

Andelin, Anton E., Bromarf, Bjorknas, Finland, assignor to Finska Forcit-Dynamit Aktiebolaget, Hango, Finland. Method and apparatus for forming plastic explosives into strings. 1,756,328; Apr. 29.

Anderegg, Gustavus A., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling conductor. 1,756,274; Apr. 29.

Andersen Foundry Company. (See Andersen, F. C., and Bird, assignors.)

Andersen, Fred C., and C. P. Bird, assignors to Andersen Foundry Company, Bayport, Minn. Sash pulley. 1,756,719; Apr. 29.

Andersen, Fred C., and C. P. Bird, assignors, by mesne assignments, to Andersen Foundry Company, Bayport, Minn. Sash pulley. 1,756,720; Apr. 29.

Anderson, Arvid E., Lansdowne, Pa., assignor to General Electric Company. Automatic switching system. 1,756,844; Apr. 29.

Anderson, Charles A., Los Angeles, Calif. Apparatus for exhausting wells. 1,756,500; Apr. 29.

Anderson Foundry Company. (See Peterson, H. F., and Bird, assignors.)

Anderson, Gustaf, Lynn, Mass. Internal-combustion engine. 1,756,621; Apr. 29.

Anderson, Robert J., Whitman, assignor to National Fireworks, Inc., West Hanover, Mass. Mortar shell. 1,756,079; Apr. 29.

Andrew, Harry R., Roswell, N. M. Road-grading device. 1,756,829; Apr. 29.

Andrusis, John A., Brooklyn, N. Y. Vegetable grater. 1,756,779; Apr. 29.

Antinoro, Angelo, Johnstown, Pa. Barber's-chair attachment. 1,756,112; Apr. 29.

Apco Mossberg Corporation. (See Jackson, Alfred F., assignor.)

Apple, Vincent G., Dayton, Ohio. Dynamo-electric machine. 1,756,501; Apr. 29.

Archer, Merton T., Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio. Drilling rig. 1,756,804; Apr. 29.

Arden Box Toe Company. (See Daly, John J., assignor.)

Armington, George E., Wickliffe, and R. G. Nightingale, assignors to The Glenn L. Martin Company, Cleveland, Ohio. Airplane. 1,756,231; Apr. 29.

Armstrong, Charles C., Huntington, W. Va., assignor to The Armstrong Electric and Manufacturing Corporation. Electric stove. 1,756,721; Apr. 29.

Armstrong Cork Company. (See Brinton, William P., assignor.)

Armstrong Cork Company. (See Kaufman, Walter F., assignor.)

Armstrong Cork Company. (See Webster, Harry A., assignor.)

Armstrong Electric and Manufacturing Corporation. (See Armstrong, Charles C., assignor.)

Armstrong, Victor C., Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y. Splicing structure for canted rails. 1,756,330; Apr. 29.

Arnaud, Joseph J., South Milwaukee, Wis. Television apparatus. 1,756,232; Apr. 29.

Arnold, Robert B., Richmond, Va., and R. M. Hixon, Ames, Iowa, assignors to Tobacco By-Products & Chemical Corporation, Louisville, Ky. Pulp product and making the same. 1,756,722; Apr. 29.

Arrow-Hart & Hegeman Electric Company, The. (See Paiste, Henry T., assignor.)

Ashton, Francis E., Chester, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Shuttle for weft-replenishing looms. 1,756,622; Apr. 29.

Ashworth, Fred, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Presser-foot mechanism for sewing machines. 1,756,502; Apr. 29.

Astrom, John, Fort Wayne, Ind. Carburetor. 1,756,580; Apr. 29.

Atlas Bolt & Screw Co., The. (See Schellentrager, Eugene W., assignor.)

Audet, Alfred, Salem, Mass. Eave shingle support. 1,756,476; Apr. 29.

Auffero, John M., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Cover plate for sound-wave apparatus or similar article. Des. 81,044; Apr. 29.

Auffero, John M., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Cover plate for sound-wave apparatus or similar article. Des. 81,045; Apr. 29.

Aufuldish, John B., assignor to The Multiple Valve and Manufacturing Company, Dayton, Ohio. Multiple valve. 1,756,845; Apr. 29.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulated cable joint. 1,756,080; Apr. 29.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Outlet for multiple-conductor cables. 1,756,233; Apr. 29.

Automatic Burner Corporation. (See Perry, Stanley, assignor.)

Auto Research Corporation. (See Bijur, Joseph, assignor.)

Auxter, Ervin. (See Gray, H. D., Auxter, and Noble.)

Avery, Henry W., Cleveland, Ohio. Device adapted to be screwed onto pipes or rods. 1,756,167; Apr. 29.

Babcock & Wilcox Company, The. (See Weston, Sydney F., assignor.)

Bacon, James. (See Hutton, J., and Bacon.)

Bacon, James, et al. (See Hutton, J., and Bacon, assignors.)

Bader, Fred W., Hillsdale, N. J., assignor to J. Kridel, Sons & Co. Textile fabric. Des. 81,046; Apr. 29.

Baehr, Edward J. (See Dennis, W. R., and Baehr.)

Bag Frame and Components Company, The. (See Winning, John F. F.)

Bakelite Corporation. (See Wakefield, Harold F., assignor.)

Baker, Flora B., Grants Pass, Oreg. Effigy. 1,756,420; Apr. 29.

Baker Oil Tools, Inc. (See Baker, Reuben C., assignor.)

Baker, Reuben C., Coalinga, Calif. Wrist pin. 1,756,504; Apr. 29.

Baker, Reuben C., Coalinga, Calif., assignor to Baker Oil Tools, Inc. Core drill. 1,756,503; Apr. 29.

Baker, Walter J., Chillicothe, Mo. Rotary vaporizing carburetor. 1,756,805; Apr. 29.

Ballard, Harrie A., Beverly, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me. Measuring machine. 1,756,081; Apr. 29.

Ballou, B. A., & Co. (See Ballou, Frederick A., assignor.)

Ballou, B. A., & Co. (See Ballou, F. A., and Stafford, assignors.)

Ballou, Frederick A., Nayatt, assignor to B. A. Ballou & Co., Inc., Providence, R. I. Shoe strap. 1,756,505; Apr. 29.

Ballou, Frederick A., Nayatt, and R. T. Stafford, East Providence, assignors to B. A. Ballou & Co., Inc., Providence, R. I. Shoe strap. 1,756,506; Apr. 29.

Banerschlay, Walter H. (See Preece, Archie R., assignor.)

Barber-Colman Company. (See Colman, Howard D., assignor.)

Barco Manufacturing Company. (See Bertram, Clarence C., assignor.)

Barlow, James D., Dallas, Tex. Work stand. 1,756,082; Apr. 29.

Barr, John M., assignor to The Louis Allis Company, Milwaukee, Wis. Dynamo-electric machine. 1,756,672; Apr. 29.

Barrows, Donald S., Rochester, N. Y. Railway truck. 1,756,168; Apr. 29.

Barth, Joseph L., Bismarck, N. Dak. Metatarsal-pad locator. 1,756,780; Apr. 29.

Bartholomew, Orlo A., Kansas City, Mo. Seasoning logs. 1,756,477; Apr. 29.

Bartlett, C. O., & Snow Company, The. (See Jones, Edward N., assignor.)

Bassett, Harry P., Cynthiana, Ky. Recovering volatile plasticizers from celluloid and the like. 1,756,331; Apr. 29.

Batchelder, Vera C. (See Thomas, Leslie J., assignor.)

Batdorf, Charles S., Brooklyn, N. Y. Method of and machine for making cups. 1,756,478; Apr. 29.

Battegay, Martin, Mulhouse, Haut-Rhin, France, assignor, by mesne assignments, to The Calco Chemical Company, Inc. Manufacture of nitric acid. 1,756,532; Apr. 29.

Batts, Carl T., Grand Rapids, Mich. Pants hanger. 1,756,533; Apr. 29.

Bauer, William J., assignor to Project Holding Corporation, New York, N. Y. Collapsible chair. 1,756,421; Apr. 29.

Baumann, Arnold W., Chicago, Ill. Vacuum pan. 1,756,673; Apr. 29.

Baumberger, William J., Davenport, assignor to Micro Machine Company, Bettendorf, Iowa. Grinding machine. 1,756,908; Apr. 29.

Bausch & Lomb Optical Company. (See Gallasch, George B., assignor.)

Beach, Howard W., Caldwell, N. J. Portable air-compressing unit. 1,756,806; Apr. 29.

Beaver Machine & Tool Co. (See Slade, Harold E., assignor.)

Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Combined motor bearing and brush holder. 1,756,332; Apr. 29.

Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Pitch-coking process and product. 1,756,284; Apr. 29.

Becker, Joseph, assignor to The Koppers Company, Pittsburgh, Pa. Coking retort oven. 1,756,235; Apr. 29.

Becker, Logan A., and J. M. Munson, Lakewood, assignors to The Dobeckmun Company, Cleveland, Ohio. Special container. 1,756,919; Apr. 29.

Beers, Henry S., Westport, Conn., assignor to The Turbo-Mixer Corporation, New York, N. Y. Mixing, dissolving, or similar apparatus. 1,756,236; Apr. 29.

Behringer, Grover F., assignor to The American Steel Package Company, Defiance, Ohio. Variable condenser. 1,756,447; Apr. 29.

Behrman, Abraham S., assignor to General Zeolite Company, Chicago, Ill. Liquid treatment. 1,756,275; Apr. 29.

Behrman, Abraham S., Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Base-exchange material and preparing same. 1,756,623; Apr. 29.

Behrman, Abraham S., Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Base-exchange substance. 1,756,624; Apr. 29.

Behrman, Abraham S., Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y. Preparing metallo-silicates. 1,756,625; Apr. 29.

Belhumeur, John A., Esmond, R. I. Vacuum device. 1,756,507; Apr. 29.

Bell Telephone Laboratories, Incorporated. (See Andersegg, Gustavus A., assignor.)

Bell Telephone Laboratories, Incorporated. (See Smith, W. F., jr., and Crabtree, assignors.)

Bell Telephone Laboratories, Incorporated. (See Stoller, H. M., and Porter, assignors.)

Benda, Jaroslav, Prague, Czechoslovakia. Footwear. 1,756,169; Apr. 29.

Bendix Aviation Corporation. (See Morris, William L., assignor.)

Benson, William E., Wollaston, assignor of one-half to T. M. Prudden, Hingham, Mass. Making multiple wall containers. 1,756,243; Apr. 29.

Berger Brothers Company, The. (See Loeffel, Lester H., assignor.)

Bergesen, John, sr., Brooklyn, N. Y. Oscillating engine. 1,756,017; Apr. 29.

Bergougnoux, Jean B., Los Angeles, Calif. Auxiliary feeding device for internal-combustion engines. 1,756,781; Apr. 29.

Bergstrom, Carl P., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Mounting for weft detectors. 1,756,581; Apr. 29.

Berks Engineering Company. (See Rahm, Robert C., assignor.)

Bersin, Madeleine, Colonia del Valle, Mexico. Swaddling cloth. 1,756,508; Apr. 29.

Bertherman, Sidney J., Chepachet, assignor to L. & B. Jewelry Manufacturing Company, Providence, R. I. Extension device. 1,756,333; Apr. 29.

Bertram, Clarence C., assignor to Barco Manufacturing Company, Chicago, Ill. Reversing-gear mechanism. 1,756,334; Apr. 29.

Bethke, Gustave A. (See Jezek, Anton, assignor.)

Bigney, S. O., & Company. (See Bigney, Sidney O., assignor.)

Bigney, Sidney O., assignor to S. O. Bigney & Company, Attleboro, Mass. Band for personal wear. 1,756,448; Apr. 29.

Bijur, Joseph, New York, N. Y., assignor by mesne assignments to Auto Research Corporation. Trunnion joint and the lubrication thereof and of associated parts. 1,756,335; Apr. 29.

Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Trunnion joint and the lubrication thereof and of associated parts. 1,756,336; Apr. 29.

Billerman, William G., Newark, N. J. Top for percolators. 1,756,449; Apr. 29.

Billings, John G. (See Bilsky, Jacob.)

Bilsky, Jacob, Chicago, Ill., now by change of name J. G. Billings. Method and apparatus for utilizing exhaust gases of internal-combustion engines. 1,756,897; Apr. 29.

Bird, Clarence P. (See Andersen, F. C., and Bird.)

Bird, Clarence P. (See Peterson, H. F., and Bird.)

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Low-voltage release mechanism for switches. 1,756,479; Apr. 29.

Black, Robert D. (See Black, Samuel D. and R. D.)

Black, Samuel D. and R. D., Baltimore County, Md. Vehicle seat. 1,756,807; Apr. 29.

Black, William C., Dudley, England, assignor to M. S. Moore, Brussels, Belgium. Cutter bar for coal-cutting machines and the like. 1,756,456; Apr. 29.

Blackwell, Edwin G., New York, N. Y. Retort structure. 1,756,170; Apr. 29.

Blaudeau, Jean B., Chateauroux, J. Limousin, Sassierges-St.-Germain, and H. Rousseaux and A. Dumont, Paris, France. Vaporizer for heaters. 1,756,808; Apr. 29.

Block, Joseph, Brooklyn, assignor to Noma Electric Corporation, New York, N. Y. Christmas-tree support. Des. 81,047; Apr. 29.

Bloom, Nathan P., assignor to Adler Manufacturing Co., Louisville, Ky. Cabinet for a sound-reproducing instrument or the like. Des. 81,048; Apr. 29.

Blume, Louis F., Pittsfield, Mass., and W. O. Dwyer, Kingston, Ontario, Canada, assignors to General Electric Company. Electrical induction apparatus. 1,756,846; Apr. 29.

Blunt, James G., Schenectady, N. Y. Locomotive bumper bracket. 1,756,480; Apr. 29.

Bocz, Alexander J., Detroit, Mich. Balancing device. 1,756,898; Apr. 29.

Böhm, Erich, Vienna, Austria. Treating animal hair and wool with chlorine. 1,756,723; Apr. 29.

Boll, Lambert, New York, N. Y. Envelope opener. 1,756,113; Apr. 29.

Bollman, C. P. (See Fuller, Charles H., assignor.)

Bommer, Fred W., Everett, Mass. Making rubber thread. 1,756,171; Apr. 29.

Bommer, Fred W., Everett, Mass. Thread-cutting machine. 1,756,172; Apr. 29.

Bonat, Harry, New York, N. Y. Hair-permanent-waving apparatus. 1,756,451; Apr. 29.

Bond, Samuel C., Holly Oak, Del. Machine for filling and capping bottles. 1,756,114; Apr. 29.

Boosinger, Oswell L., Independence, Kans. Battery terminal. 1,756,724; Apr. 29.

Bordeaux, Claude G., Slingerlands, N. Y. Coffeepot. 1,756,725; Apr. 29.

Borgestad Fabrikker. (See Goldschmidt, V. M., and Knudsen, assignors.)

Bosco, George B., Chicago, Ill. Shore-adjusting tool. 1,756,173; Apr. 29.

Bosco, George B., Chicago, Ill. Wall tie. 1,756,174; Apr. 29.

Bostwick, Henry C. (See Fleiter, A. J., Bostwick, and Miller.)

Bourne, Roland B. (See Maxim, H. P., and Bourne.)

Bourne, Roland B., assignor, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,756,626; Apr. 29.

Bourne, Stephen. (See Staunton, Le Roy W., assignor.)

Bourth, Victor, Boulogne sur Seine, France. Automatic pistol. 1,756,847; Apr. 29.

Bowler, Thomas, North Vancouver, British Columbia, Canada. Poppet valve. 1,756,337; Apr. 29.

Bowlser, Alfred H., jr., Los Angeles, Calif., assignor, by mesne assignments, to Kimball-Krogh Pump Company. Sliding bearing bushing for pump construction. 1,756,276; Apr. 29.

Boyce, Edward C., New York, N. Y. Golf-club carriers. 1,756,902; Apr. 29.

Boyd, John G., Oakland, Calif. Illusory travel-scope. 1,756,175; Apr. 29.

Boyd, William T., Glendale, Ky. Train-order device. 1,756,848; Apr. 29.

Branstad, Marius A., Oslo, Norway. Exhibition and advertisment stand. 1,756,849; Apr. 29.

Braf, Gerhard. (See Seaman, C., and Braf.)

Braine, Daniel L., Brooklyn, assignor to The Rail Joint Company, New York, N. Y. Bulldozed compromise joint bar and blank. 1,756,338; Apr. 29.

Brake Synchrometer Co. (See Smith, Charles F., assignor.)

Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Feed mechanism for rotary duplicating machines. 1,756,674; Apr. 29.

Bredow, Ewald, assignor of one-half to A. W. Meyer, Albany, N. Y. Slicing machine. 1,756,237; Apr. 29.

Breitenstein, Albert F., assignor to The Geometric Tool Company, New Haven, Conn. Self-opening die head. 1,756,277; Apr. 29.

Brennan, Annie K., Philadelphia, Pa. Combined corset and brassière. 1,756,809; Apr. 29.

Brenner, Edward, Haverhill, Mass. Shoe and making the same. 1,756,083; Apr. 29.

Breslin Brothers Carpet Company. (See Martin, Henry K., assignor.)

Brewer, Joseph, New York, N. Y. Key case. 1,756,627; Apr. 29.

Bridgeport Brass Company. (See Brown, Gregory, assignor.)

Brière, Adolphe, Montreal, Quebec, Canada. Window fly screen. 1,756,176; Apr. 29.

Briggs Manufacturing Company. (See Clark, James H., assignor.)

Brinton, William P., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Block printing machine and method of printing. 1,756,177; Apr. 29.

Britton, Edgar C. (See Williams, W. H., and Britton.)

Broberg, Charles E., Copenhagen, Denmark. Adjustable handlebar for bicycles, motor bicycles, and the like vehicles. 1,756,839; Apr. 29.

Brock & Weymouth, Incorporated. (See Holst, Lodewyk J. R., assignor.)

Broecker, Louis C. (See Rand, J. H., jr., and Broecker.)

Bronson Reel Company. (See Schafer, John V., assignor.)

Brost, Charles A., assignor of one-fourth to F. Miller and one-fourth to T. Digman, Glasgow, Mont. Wheel-flange lubricator. 1,756,726; Apr. 29.

Brotz, Frank G., assignor to Kohler Company, Kohler, Wis. Upper basket for dishwashers. 1,756,810; Apr. 29.

Brower, William M., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Electrical control apparatus. 1,756,727; Apr. 29.

Brown, Gregory, assignor to Bridgeport Brass Company, Bridgeport, Conn. Cluster stem. 1,756,675; Apr. 29.

Brown & Haley. (See Seeley, William H., assignor.)

Brown-Lipe Gear Company. (See Jarrett, C. W., and Skerritt, assignors.)

Brownsberger, Howard J., and H. E. McConnell, Toledo, Ohio. Shaving brush. 1,756,811; Apr. 29.

Brush, Alanson P., Detroit, Mich. Vibration dampener. 1,756,178; Apr. 29.

Bryant, Charles L., Cleveland, Ohio. Low-pressure cut-off. 1,756,340; Apr. 29.

Buck, Otto F. (See Venzlaff, R. R. W., and Buck.)

Buckley, Oliver E., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical conductor. 1,756,341; Apr. 29.

Buckner, Thomas E., Plaska, Tex. Conveyer belt. 1,756,278; Apr. 29.

Budd, Clinton S., Clarion, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Multiple press head for glassware-shaping machines. 1,756,728; Apr. 29.

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Burke, Paul, assignor to Northwest Engineering Corporation, Green Bay, Wis. Power control for excavators. 1,756,051; Apr. 29.

Burnett, James E., Beardstown, Ill. Wire reel. 1,756,782; Apr. 29.

Burns, Gerald G. (See Marx, John F., assignor.)

Burns, Robert, Toronto, Ontario, Canada. Wreath holder. Des. 81,049; Apr. 29.

Burroughs Adding Machine Company. (See Race, Ernest, assignor.)

Burton, Charles S., Oak Park, assignor to Stewart-Warner Corporation, Chicago, Ill. Rebound check for vehicles. 1,756,052; Apr. 29.

Busch-Sulzer Bros.-Diesel Engine Company. (See Hawks, Arthur S., assignor.)

Bush, Vannevar, Chelsea, Mass., assignor, by mesne assignments, to Powel Crosley, jr., Cincinnati, Ohio. Thermionic tube. 1,756,481; Apr. 29.

Bush, Vannevar, West Medford, assignor to Raytheon, Inc., Cambridge, Mass. Constant-potential apparatus. 1,756,628; Apr. 29.

Bushong, Neva A., Lagrange, Ind. Device for encouraging dental correction. 1,756,482; Apr. 29.

Busiek, William A., Belleville, Ill. Range. 1,756,179; Apr. 29.

Business Systems Limited. (See Smith, Walter H., assignor.)

Butler, John W., McKeesport, Pa. Underground fire extinguisher. 1,756,582; Apr. 29.

Byron Jackson Co. (See Holdaway, Hall H., assignor.)

Cadwallader, Brooke W., Los Angeles, Calif. Expansion and shrinkage take-up in block and plank flooring. 1,756,583; Apr. 29.

Calco Chemical Company, The. (See Battegay, Martin, assignor.)

Camerota, Louis A., Burlington, N. J., assignor to W. Wood, Philadelphia, Pa. Method and apparatus for extracting castings from molds. 1,756,812; Apr. 29.

Campbell, Albert W., Bay City, Mich. Extendible vise support. 1,756,629; Apr. 29.

Campbell, Lorn, jr., Lakewood, Ohio. Valve for measuring and dispensing fluid. 1,756,279; Apr. 29.

Campbell, Stewart L., Berkeley, assignor to J. Grant, Los Angeles, Calif. Expanding drill or reamer. 1,756,509; Apr. 29.

Candee, L., and Company, The. (See Clements, Eugene E., assignor.)

Canfield, Robert W., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Method of and apparatus for making hollow blown glassware. 1,756,813; Apr. 29.

Carlin, Joseph, assignor to Sargent & Company, New Haven, Conn. Lock. 1,756,342; Apr. 29.

Carnahan, Glen C., assignor to James B. Clow & Sons, Chicago, Ill. Gas-burning apparatus. 1,756,280; Apr. 29.

Carpenter, Russell, Three Rivers, Quebec, Canada. Drier apparatus for paper-making machines. 1,756,630; Apr. 29.

Carr, Fred S., Newton, assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Nut-fastening installation. 1,756,631; Apr. 29.

Carrier Engineering Corporation. (See Gamble, W. J., Stacey, and Thornton, assignors.)

Caughey, Reed J., Schenectady, N. Y., assignor to General Electric Company. Emergency governing mechanism for elastic-fluid turbines and the like. 1,756,850; Apr. 29.

Caughlan, Martha W., Oakland, Calif. Reflector. 1,756,084; Apr. 29.

Cecil, William F., Holland, Mo. Cultivator attachment. 1,756,180; Apr. 29.

Celite Corporation. (See Miketta, Casimir A., assignor.)

Chambers, Laura A., St. Louis, Mo. Hospital equipment. 1,756,238; Apr. 29.

Chance, Albert B., Centralia, Mo. Cone anchor. 1,756,534; Apr. 29.

Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Support for conductors. 1,756,510; Apr. 29.

Charavay, Frederick, Piqua, Ohio, assignor, by mesne assignments, of one-half to Hartzell Industries, Inc., Wilmington, Del. Moving air against pressure. 1,756,343; Apr. 29.

Cheatham Electric Switching Device Company. (See Richterkessing, Frank H., assignor.)

Chemical Equipment Manufacturing Company, The. (See Gunthard, August, assignor.)

Cheney, Moses E., La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Rheostat tank-fitting assembly. 1,756,535; Apr. 29.

Cherrington, Frank W., Toledo, Ohio. Drying or treating timber and the like. 1,756,281; Apr. 29.

Chicago Pneumatic Tool Company. (See Moody, Julius C., assignor.)

Chojnacki, Edward P. (See Chojnacki, Paul B. and E. P.)

Chojnacki, Paul B. and E. P., Los Angeles, Calif. Trailer. 1,756,239; Apr. 29.

Clark, E. Calvin, et al. (See Riley, Charles T., assignor.)

Clark, Harold J. (See Taylor, George W., assignor.)
Clark, James H., assignor to Briggs Manufacturing Company, Detroit, Mich. Seat assembly. 1,756,147; Apr. 29.
Clement, James E., New Baltimore, Mich. Woodworker's tool. 1,756,851; Apr. 29.
Clements, Eugene E., assignor to The L. Candee and Company, New Haven, Conn. Pressing machine. 1,756,452; Apr. 29.
Cleveland Graphite Bronze Company, The. (See Hopkins, B. F., and Palm, assignors.)
Clevenger, Herman, Monroe Township, Delaware County, Ind. Milk-cooling device. 1,756,536; Apr. 29.
Clow, James B., & Sons. (See Carnahan, Glen C., assignor.)
Coal Process Corporation. (See Wisner, Clarence B., assignor.)
Colbentson, Oliver S., Chicago, Ill. Shoulder pad. 1,756,676; Apr. 29.
Coleman Lamp & Stove Company, The. (See Denison, Howard S., assignor.)
Coleman Lamp & Stove Company, The. (See Olds, Ambrose D., assignor.)
Coles, Walter H., and B. J. Nelson, assignors to The Skinner Irrigation Company, Troy, Ohio. Sprinkler. 1,756,729; Apr. 29.
Collins, Arthur H., assignor of one-half to L. B. MacCullough, Jacksonville, Fla. Spring motor. 1,756,783; Apr. 29.
Colman, Howard D., assignor to Barber-Colman Company, Rockford, Ill. Heddle-handling mechanism. 1,756,814; Apr. 29.
Colt, Samuel S., Orange, N. J. Locking up concrete-pouring forms. 1,756,632; Apr. 29.
Colton, Max, Newark, N. J. Vaporizer. 1,756,053; Apr. 29.
Columbia Stamping Products Co. (See Klein, A., and Esterow, assignors.)
Commonwealth Steel Company. (See Westlake, Charles T., assignor.)
Connors, John L. (See Mitchell, L. E., Conners, and Pineles.)
Conrad, William L., Boston, Mass. Processing apparatus. 1,756,240; Apr. 29.
Consolidated Automatic Merchandising Corporation. (See Woods, Harold B., assignor.)
Cook, Charles J., Detroit, Mich. Magazine and clip holder. 1,756,677; Apr. 29.
Cook, Clarence P., assignor to Scovill Manufacturing Company, Waterbury, Conn. Sprinkler top for containers. 1,756,422; Apr. 29.
Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Material conveyer for furnaces. 1,756,584; Apr. 29.
Cosin, Joseph J., Newark, N. J. Combined set of powder puffs and container therefor. Des. 81,050; Apr. 29.
Cotter, William F., assignor to American Bosch Magneto Corporation, Springfield, Mass. Automatically-operated pick-up switch. 1,756,815; Apr. 29.
Cotton, William J., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Separation of mononitronaphthalene disulphonic acids. 1,756,537; Apr. 29.
Couls, George R., Detroit, Mich. High-speed tool-steel alloy. 1,756,282; Apr. 29.
Coyne, Robidoue & Co. (See Robidoue, Samuel F., assignor.)
Crabtree, Theodore H. (See Smith, W. F., jr., and Crabtree.)
Craigon, Adam, Toronto, Ontario, assignor to Craigon Engines Limited. Hamilton, Canada. Internal-combustion engine. 1,756,538; Apr. 29.
Craigon Engines Limited. (See Craigon, Adam, assignor.)
Cram, Leroy V., Flint, assignor to General Motors Corporation, Detroit, Mich. Air cleaner. 1,756,909; Apr. 29.
Crawford, George S., assignor to S. L. Woods, Chicago, Ill. Side bearing. 1,756,283; Apr. 29.
Crawford, Malcolm J., London, England, assignor to Wayne Company. Liquid measuring and dispensing apparatus. 1,756,085; Apr. 29.
Creamery Package Mfg. Company, The. (See Heitz, Leonard F., assignor.)
Creamery Package Mfg. Company, The. (See Hippenmeyer, Irving R., assignor.)
Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)
Creamery Package Mfg. Company, The. (See Scovel, John C., jr., assignor.)
Cribbs, Hyatt M. (See Gruber, Samuel A., assignor.)
Crompton & Knowles Loom Works. (See Ashton, Francis E., assignor.)
Crompton & Knowles Loom Works. (See Bergstrom, Carl P., assignor.)
Crompton & Knowles Loom Works. (See Gordon, Albert A., assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)
Cronk, Arthur H., et al. (See Riley, Charles T., assignor.)
Crosby, Clemons C., Belmond, Iowa. Decapper for bottles. 1,756,730; Apr. 29.
Crosley, Powel, jr. (See Bush, Vannevar, assignor.)
Crosley Radio Corporation, The. (Smith, Russell T., assignor.)
Cross, Bertram J., Piermont, N. Y., assignor to International Combustion Engineering Corporation. Pulverized-fuel-burning apparatus. 1,756,321; Apr. 29.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crouse-Hinds Co. (See Mackall, Kenneth W., assignor.)
Crowell, J. Addison, assignor to James B. Crowell & Son, Wallkill, N. Y. Brick mold. 1,756,146; Apr. 29.
Crowell, James B., & Son. (See Crowell, J. Addison, assignor.)
Crum, Abram G., Pittsburgh, Pa., assignor to Metal & Thermit Corporation, Carteret, N. J. Welding. 1,756,054; Apr. 29.
Cude, Harold E. (See Rose, R. P., and Cude.)
Culver, Lagar R., Los Angeles, assignor of one-half to J. W. Prillaman and E. F. Prillaman, Vista, Calif. Power-dipper door-latch release. 1,756,284; Apr. 29.
Cumming Pump Corporation. (See Cumming, William G., assignor.)
Cumming Pump Corporation. (See Vaughan, H. H., and Cumming, assignors.)
Cumming, William G. (See Vaughan, H. H., and Cumming.)
Cumming, William G., Montreal, Quebec, assignor to Cumming Pump Corporation Limited, Montreal, Canada. Suction pump. 1,756,678; Apr. 29.
Cummings, Charles D., Tully, assignor of twenty-five per cent to L. R. Fuller, Syracuse, N. Y., and forty-nine per cent to A. F. Fuller and C. A. Allen, Portsmouth, N. H. Portable can opener. 1,756,633; Apr. 29.
Cummings, William L., Berwyn, assignor to The Electron Relay Corporation, Chicago, Ill. Incandescent electric lamp. 1,756,679; Apr. 29.
Curtis, Arthur R., Cleveland, Ohio. Safety device for washing machines. 1,756,181; Apr. 29.
Curtis Companies. (See Madsen, Sern, assignor.)
Curtis, Rowland J., assignor to The Reeves Manufacturing Company, Dover, Ohio. Bottom construction for cans. 1,756,585; Apr. 29.
Cutler-Hammer Inc. (See Seeger, Edwin W., assignor.)
Dalcher, John T., Bayonne, N. J. Pressure-fluid generator. 1,756,423; Apr. 29.
Daly, John J., West Newton, assignor to Spencer Chain Stores, Inc., Malden, Mass. Store front. Des. 81,051; Apr. 29.
Daly, John J., West Newton, assignor to Arden Box Toe Company, Watertown, Mass. Box-toe strip pack. 1,756,115; Apr. 29.
Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Crank-shaft-twisting machine. 1,756,634; Apr. 29.
Dammann, Karl, Essen, Germany. Building roads. 1,756,344; Apr. 29.
Daugert, Peter, Wilkes-Barre, H. Frey, Kingston, and J. J. Dunleavy, Plymouth, Pa. Flyer for spinning and like machines. 1,756,899; Apr. 29.
Davel, Paul H., and H. L. Jacobs, Kent, Ohio, and J. A. Davey, Sound Beach, Conn.; said H. L. Jacobs assignor to The Davey Tree Expert Company, Kent, Ohio. Treating trees and apparatus therefor. 1,756,453; Apr. 29.
Davey, James A. (See Davey, P. H., Jacobs, and Davey.)
Davey Tree Expert Company, The. (See Davey, P. H., Jacobs, assignors, and Davey.)
Davis, Chester L., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Signaling system. 1,756,086; Apr. 29.
Dawson, George H., Cambridge, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Card index. 1,756,852; Apr. 29.
Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,756,853; Apr. 29.
De Cesare, John. (See Ruggiero, G., and De Cesare.)
Decker, Harry R., assignor to Decker Oil Tool Company, Houston, Tex. Drill. 1,756,285; Apr. 29.
Decker Oil Tool Company. (See Decker, Harry R., assignor.)
De Filippis, Raymond, Brooklyn, assignor to H. D. Findley, New York, N. Y. Vehicle. 1,756,530; Apr. 29.
De Freitas August, Honolulu, Hawaii. Amusement device. 1,756,854; Apr. 29.
Denison, Howard S., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Bread toaster. Des. 81,052; Apr. 29.
Denne, Mark T., London, England. Sole rounding or trimming and channeling machine. 1,756,116; Apr. 29.
Dennis, Walter R., Fergus Falls, and E. J. Baehr, Wadena, Minn. Combination lavatory and closet. 1,756,635; Apr. 29.
Dennison Manufacturing Company. (See Alden, Gardner R., assignor.)
De Roo, William C., assignor to The Fosdick Machine Tool Company, Cincinnati, Ohio. Spring counterbalance for drill spindles. 1,756,454; Apr. 29.
Desch, Otto G. (See Doty, C. E., and Desch.)
Design Laboratories, Incorporated. (See Wilson, Edwin B., assignor.)
Desrosiers, Edouard J., Paris, France. Disk friction clutch. 1,756,731; Apr. 29.
De Vilbiss Company, The. (See Kremnec, Frank W., assignor.)

Diamond Power Specialty Corporation. (See Snow, Norman L., assignor.)
Dichiaro, Anthony J. (See Trippeda, C. S., and Dichiaro.)
Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)
Dickinson Joseph H., Winter Park, Fla., assignor to Lidgerwood Manufacturing Company, New York, N. Y. Skidding carriage. 1,756,732; Apr. 29.
Dignan, Thomas, et al. (See Brost, Charles A., assignor.)
Ditto, Incorporated. (See Williams E., assignor.)
Dobeckmun Company, The. (See Becker, L. A., and Munson, assignors.)
Dodge, Arthur H., assignor to J. G. Wilson Corporation, New York, N. Y. Venetian blind. 1,756,680; Apr. 29.
Doebler, Charles F., assignor to B. Frank, New York, N. Y. Clip for writing tools. 1,756,241; Apr. 29.
Doebler, Charles F., assignor to B. Frank, New York, N. Y. Writing tool. 1,756,242; Apr. 29.
Dohrwardt, John F., assignor to Line Material Company, South Milwaukee, Wis. Expulsion fuse. 1,756,855; Apr. 29.
Dolmage, Mihran M., Washington, D. C. Impedance variation compensator circuits. 1,756,816; Apr. 29.
Domestic Stoker Company. (See Hall, Cortice H., assignor.)
Dorey, George B., Evanston, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Car door. 1,756,455; Apr. 29.
Döring, Fritz, Berlin-Frohnau, and K. Müller, Berlin-Siemensstadt, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Electromagnetic switch. 1,756,540; Apr. 29.
Dorward, Joseph E., New York, N. Y. Inflatable sport ball. 1,756,056; Apr. 29.
Doty, Charles E., Mount Vernon, and O. G. Desch, New York, N. Y. Timber-handling device. 1,756,057; Apr. 29.
Dow Chemical Company, The. (See Griswold, T., jr., and Hunter, assignors.)
Dow Chemical Company, The. (See Williams, W. H., and Britton, assignors.)
Dowd, Edmund B., Chicago, Ill. Forming plastic columns. 1,756,541; Apr. 29.
Dowd, Edmund B., Chicago, Ill. Forming means for composite columns and the like. 1,756,542; Apr. 29.
Dowler, Harry P., Clearfield, Pa. Fireplace. 1,756,511; Apr. 29.
Downs, John, Acton Green, assignor to himself and Watts Finchem and Company, Limited, London, England. Portable electric lamp. 1,756,733; Apr. 29.
Drake, Alden M. (See Judge, F., and Drake.)
Drane, Brent S., Charlotte, N. C. Auxiliary seat. 1,756,182; Apr. 29.
Dreisbach, Charles A., New Haven, Conn., assignor to Standard Radial Blast Corporation, New York, N. Y. Adjustable guide device for multiple strands. 1,756,636; Apr. 29.
Drew, Herbert H., assignor to Watertown Table-Slide Company, Watertown, Wis. Extension table. 1,756,586; Apr. 29.
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Treating oil. 1,756,018; Apr. 29.
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Producing lower boiling point hydrocarbons. 1,756,019; Apr. 29.
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier Condenser Corporation. (See Weiss, Arthur J., assignor.)
Dubilier, William, New York, N. Y., assignor to Dubilier Condenser Corporation. Variable condenser. 1,756,512; Apr. 29.
Dumont, André. (See Blaudeau, J. B., Limousin, Rousseaux, and Dumont.)
Duncan, William M., Alton, Ill. Chain grate. 1,756,020; Apr. 29.
Dunn, Edward L., East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y. Locking mechanism. 1,756,845; Apr. 29.
Dunlap, Clarence E., Sioux City, Iowa. Inner-tube patch. 1,756,183; Apr. 29.
Dunleavy, John J. (See Daugert, P., Frey, and Dunleavy.)
Du Pont Ammonia Corporation. (See Larsson, Markus, assignor.)
Du Pont, E. I., de Nemours & Company. (See Jordan, Henry, assignor.)
Du Pont Rayon Company. (See Paley, Lewis A., assignor.)
Durkee, Ernest W., Lynn, Mass. Last. 1,756,587; Apr. 29.
Dursch, Frank C. J., Philadelphia, Pa. Weed-topping attachment for lawn mowers. 1,756,346; Apr. 29.
Dwyer, William O. (See Blume, L. F., and Dwyer.)
E. A. Laboratories, Inc. (See Auñero, John M., assignor.)
Eagle-Picher Lead Company, The. (See Merrill, Harry C., assignor.)
Ebeling, Charles W., New York, N. Y., assignor to Harrison W. Rogers, Inc. Synchronous motor. 1,756,055; Apr. 29.
Eclipse Machine Company. (See Richards, Julius H., assignor.)
Economy Fuse and Manufacturing Company. (See Feldkamp, Frederick A., assignor.)
Economy Fuse and Manufacturing Company. (See Lindsay, William, assignor.)
Edison Electric Appliance Company. (See Patten, Raymond E., assignor.)
Edison Storage Battery Company. (See Smith, Roscoe J., assignor.)

Edwards, Robert S., Brookline, Mass., assignor to Rumford Chemical Works, Providence, R. I. Preparing by-product calcium sulphate for plaster. 1,756,637; Apr. 29.
Edwards, William H. (See Niles, B. W., and Edwards.)
Electric Furnace Company, The. (See Cope, Frank T., assignor.)
Electron Relay Corporation, The. (See Cummings, William L., assignor.)
Ellis, Carleton. (See Ellis, C., and Meigs, assignors.)
Ellis, Carleton, and J. V. Meigs, assignors, by mesne assignments, to C. Ellis, Montclair, N. J. Chemical product and making same. 1,756,817; Apr. 29.
Ellis, Carleton, and J. V. Meigs, Montclair, N. J.; said Meigs assignor, by mesne assignments, to said Ellis. Chemical product and producing same. 1,756,818; Apr. 29.
Ellis, Carleton, and J. V. Meigs, Montclair, N. J.; said Meigs assignor, by mesne assignments, to said Ellis. Resineus product, shellac substitute, etc., and making same. 1,756,819; Apr. 29.
Ellis-Foster Company. (See Lougovoy, Boris N., assignor.)
Embossing Company, The. (See Thompson, Andrew, assignor.)
Emminger, Thomas F., West View, Pa., assignor to Pittsburgh Clay Pot Company. Grinding wheel. 1,756,784; Apr. 29.
Enderle, Frank X., Los Angeles, Calif. Incinerator. Des. 81,053; Apr. 29.
Engl, Josef, Berlin-Grunewald, H. Vogt, Berlin-Wilmersdorf, and J. Massolle, Berlin-Grunewald, Germany, assignors, by mesne assignments, to W. Fox, Woodsburgh, N. Y. Process and apparatus for photographic sound recording and reproducing. 1,756,681; Apr. 29.
Enro Shirt Company, The. (See Jacoby, Gustave, assignor.)
Enterprise Manufacturing Company, The. (See Pfueger, Charles T., assignor.)
Enterprise Railway Equipment Company. (See Dorey, George B., assignor.)
Eriksson, Erik O., Lidingo, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Locomotive consisting of two vehicles provided with separate groups of wheels. 1,756,588; Apr. 29.
Ernst, George, Newark, N. J. Gauge-glass fitting. 1,756,184; Apr. 29.
Escasena, Antonio G., Habana, Cuba. Advertisement. 1,756,021; Apr. 29.
Essex Rubber Company. (See Hoopes, Penrose R., assignor.)
Estep, Miles E., Los Angeles, Calif. Lawn sprinkler. 1,756,483; Apr. 29.
Esterow, Leo. (See Klein, A., and Esterow.)
Etoré, Edmond, Courbevoie, France. Mechanism for raising and lowering sliding windows. 1,756,638; Apr. 29.
Eulenhöfer, Adolf. (See Kagelmann, M., and Eulenhöfer.)
Ex-Cell-O Aircraft and Tool Corporaiton. (See Alden, Carroll R., assignor.)
Eynon, Thomas M., Philadelphia, Pa. Liquid-level indicator. 1,756,847; Apr. 29.
Falck, Joseph E., assignor to National Casekt Company, Incorporated, Pittsburgh, Pa. Clamping means for caskets. 1,756,185; Apr. 29.
Farrall, Arthur W., and G. D. Turnbow, Davis, Calif. Apparatus for determining variations in the physical conditions of agitated materials. 1,756,286; Apr. 29.
Federal Telegraph Company. (See Brower, William M., assignor.)
Feldkamp, Frederick A., Newark, N. J., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Inspection and venting means for electric fuse devices. 1,756,022; Apr. 29.
Felsenthal, Harold, assignor to Guarsteel Safety Stair Co., Chicago, Ill. Fabricated newel-post construction. 1,756,023; Apr. 29.
Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Resilient screw stud. 1,756,186; Apr. 29.
Ferguson, George, The Hague, Netherlands, assignor to the firm Gebrüder Sulzer Aktiengesellschaft at Winterthur. Absorption refrigerating machine. 1,756,148; Apr. 29.
Ferris, Wallace A., Los Angeles, Calif. Electric weld form spacer. 1,756,187; Apr. 29.
Ferro Chemicals, Inc. (See Franchot, Richard, assignor.)
Fichtelberg, Benjamin, et al. (See Trippeda, C. S., and Dichiaro, assignors.)
Ficks Reed Company. (See Kirkpatrick, Marie, assignor.)
Findley, Hanna D. (See de Filippis, Raymond, assignor.)
Finska Forcit-Dynamit Aktiebolaget. (See Andelin, Anton E., assignor.)
Fishel, Orville G. (See Freshwater, P. G., and Fishel.)
Flagstad, Oscar A., Minneapolis, and R. G. Lee, Hoffman, Minn. Dental crown remover. 1,756,245; Apr. 29.
Flegel, Benjamin F. and F. W. Racine, Wis. Automaitc time switch. 1,756,543; Apr. 29.
Flegel, Frederick W. (See Flegel, Benjamin F. and F. W.)
Fleiter, Andrew J., Akron, H. C. Bostwick, Kenmore, and T. A. Miller, assignors to The Akron Standard Mold Company, Akron, Ohio. Tube vulcanizer. 1,756,058; Apr. 29.
Flynn, John B., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Coach latch. 1,756,117; Apr. 29.

Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slice collector for slicing machines. 1,756,149; Apr. 29.
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slice receiver. 1,756,348; Apr. 29.
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slice collector for slicing machines. Apr. 29.
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Mechanism for assembling slices. 1,756,544; Apr. 29.
Forrester, Washington E., Baltimore, Md. Heel. 1,756,456; Apr. 29.
Forster Manufacturing Company, The. (See Forster, Thomas E., assignor.)
Forster, Thomas E., assignor to The Forster Manufacturing Company, Wichita, Kans. Grain-cleaning process and machine. 1,756,246; Apr. 29.
Fortney, Frank F., assignor to The B. L. Marble Chair Company, Bedford, Ohio. Chair construction. 1,756,545; Apr. 29.
Fort Pitt Bedding Company. (See Stubnitz, Maurice, assignor.)
Fosdick Machine Tool Company, The. (See De Roo, William C., assignor.)
Foster, Frank H., et al. (See Loehr, Harry M., assignor.)
Fourment, Marcel, Paris, France. Manufacture of objects consisting of refractory, insulating, abrasive, or like substances. 1,756,457; Apr. 29.
Fousek, Joseph, San Francisco, Calif. Preserving eggs, and the yolks and whites thereof. 1,756,188; Apr. 29.
Fousek, Joseph, San Francisco, Calif. Preserving eggs and the yolks and whites thereof. 1,756,189; Apr. 29.
Foutz, Charles L., assignor to G & J Tire Company, Indianapolis, Ind. Method and apparatus for plying up rubber. 1,756,059; Apr. 29.
Fox, William. (See Engl, J., Vogt, and Massolle, assignors.)
Franchot, Richard, assignor to Ferro Chemicals, Inc., Washington, D. C. Iron smelting. 1,756,349; Apr. 29.
Frank, Benjamin. (See Doebler, Charles F., assignor.)
Frary, Francis C., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Calcined bauxite and producing same. 1,756,425; Apr. 29.
Fray, Henry. (See Daugert, P., Frey, and Dunleavy.)
Freshwater, Perry G., and O. G. Fishel, Newton, Iowa. Wood-sawing machine. 1,756,287; Apr. 29.
Fujita, Nobuchika. (See Takamine, Jokichi and J., jr., and Fujita.)
Fuller, Alexander F., et al. (See Cummings, Charles D. assignor.)
Fuller, Charles H., Los Angeles, assignor of one-fourth to C. P. Bollman, Glendale, Calif. Servo-motor. 1,756,910; Apr. 29.
Fuller, Frederick L., Ilion, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,756,350; Apr. 29.
Fuller Lehigh Company. (See Kerr, Howard J., assignor.)
Fuller, Leo E., et al. (See Cummings, Charles D., assignor.)
Fuller, Roger A., Philadelphia, Pa., assignor to General Electric Company. Automatic switching system. 1,756,903; Apr. 29.
Funke, Paul, Berlin-Schoeneberg, Germany. Piston-cooling device for internal-combustion engines. 1,756,735; Apr. 29.
Fyrac Manufacturing Co. (See Aldeen, Gedor W., assignor.)
Fyrac Manufacturing Co. (See Aldeen, G. W., and North, assignors.)
G & J Tire Company. (See Foutz, Charles L., assignor.)
Galassi, Pasquale, New York, N. Y. Terrazzo-flooring dividing strip. 1,756,856; Apr. 29.
Gallasch, George B., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical measuring instrument. 1,756,785; Apr. 29.
Gallimore, Keith F. (See Kempton, H. E., Gallimore, and Woytych.)
Gallina, Felice, West New York, and S. Gallina, Hoboken, N. J. Fastener. 1,756,736; Apr. 29.
Gallina, Sigismondo. (See Gallina, Felice and S.)
Gallowitz, Gustave A., assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Ophthalmic table. 1,756,024; Apr. 29.
Gamble, William J., Allentown, Pa., A. E. Stacey, jr., Caldwell, and W. B. Thornton, assignors to Carrier Engineering Corporation, Newark, N. J. Heater. 1,756,737; Apr. 29.
Gang, Albert J., Los Angeles, Calif. Ready-opening and self-sealing carton. 1,756,150; Apr. 29.
Garbutt, Frank E., Los Angeles, Calif. Photographic printing. 1,756,426; Apr. 29.
Gardiner, William C., assignor to F. Reddaway and Company, Limited, Manchester, England. Woven driving belting. 1,756,151; Apr. 29.
Gast, William, Philadelphia, Pa. Open-hearth furnace. 1,756,484; Apr. 29.
Gaubatz, Conrad, Mansfield, Ohio. Spike-tooth harrow. 1,756,820; Apr. 29.
Gaudenzi, Arthur, and E. Kobel, assignors to Aktiengesellschaft Brown Boveri and Cie., Baden, Switzerland. Metallic-vapor-rectifier cathode. 1,756,682; Apr. 29.
Gear Grinding Company Limited, The. (See Orcutt, A. H., and Snarry, assignors.)
Gebrüder Sulzer Aktiengesellschaft at Winterthur. (See Ferguson, George, assignor.)
Genenger, Richard, Aachen-Forst, Germany, assignor, by mesne assignments, to The American Bicheroux Company, Inclined feed track for plastic plate glass. 1,756,119; Apr. 29.
General Cigar Company. (See Wheeler, Henry H., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Blume, L. F., and Dwyer, assignors.)
General Electric Company. (See Caughey, Reed J., assignor.)
General Electric Company. (See Fuller, Roger A., assignor.)
General Electric Company. (See Gilson, Emery G., assignor.)
General Electric Company. (See Gittings, William N., assignor.)
General Electric Company. (See Guedon, Emile C., assignor.)
General Electric Company. (See Hoxie, Charles A., assignor.)
General Electric Company. (See Huber, H. J. H., and Trencham, assignors.)
General Electric Company. (See Ives, Charles A., assignor.)
General Electric Company. (See Ives, C. A., and Macloskie, assignors.)
General Electric Company. (See Konn, Felix, assignor.)
General Electric Company. (See Krämer, Christian, assignor.)
General Electric Company. (See McNairy, Jacob W., assignor.)
General Electric Company. (See Montsinger, Vincent M., assignor.)
General Electric Company. (See Potter, John E., assignor.)
General Electric Company. (See Reimann, Erich, assignor.)
General Electric Company. (See Relyea, Walter I., assignor.)
General Electric Company. (See Selby, Eugene O., assignor.)
General Electric Company. (See Thompson, Harry C., assignor.)
General Electric Company. (See Turner, Harry W., assignor.)
General Electric Company. (See Warner, John C., assignor.)
General Electric Company. (See Warren, Glenn B., assignor.)
General Motors Corporation. (See Cram, Leroy V., assignor.)
General Motors Corporation. (See House, Bryan E., assignor.)
General Motors Corporation. (See Short, Charles R., assignor.)
General Motors Corporation. (See Stranahan, Samuel A., assignor.)
General Motors Corporation. (See Tenney, Perry L., assignor.)
General Motors Corporation. (See Tormyn, Herman, assignor.)
General Motors Research Corporation. (See Lee, Charles L., assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
General Rubber Company. (See Rose, R. P., and Cude, assignors.)
General Steel Castings Corporation. (See Westlake, Charles T., assignor.)
General Zeolite Company. (See Behrman, Abraham S., assignor.)
Gentile, John, Cleveland, Ohio. Concrete step. 1,756,351; Apr. 29.
Geometric Tool Company, The. (See Breitenstein, Albert F., assignor.)
Gey, Frank J., jr. (See Gill, C. A., and Gey.)
Gilbert, John J., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Submarine cable. 1,756,546; Apr. 29.
Gill, Charles A., Baltimore, Md., and F. J. Gey, jr., Pittsburgh, Pa. Punching machine. 1,756,119; Apr. 29.
Gilman, George H., Belmont, Mass. Percussive tool. 1,756,190; Apr. 29.
Gilpin, Garth G., Riverside, assignor to Union Metal Products Company, Chicago, Ill. Railway-car construction. 1,756,352; Apr. 29.
Gilson, Bert D., assignor of one-half to S. J. Rosenthal, Chicago, Ill. Ice-cream freezer. 1,756,683; Apr. 29.
Gilson, Emery G., Colonie, N. Y., assignor to General Electric Company. Hard-metal composition and making the same. 1,756,857; Apr. 29.
Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,756,589; Apr. 29.
Girty, Frederick J. (See Hamilton, G. F., Holzapfel, Girty, and Lawton.)
Gittings, William N., Springfield, Pa., assignor to General Electric Company. Automatic switching system. 1,756,858; Apr. 29.
Goertz, August, & Co. (See Wacker, William E., assignor.)
Goldschmidt, Th., A.-G., The. (See Wüst, Fritz, assignor.)

Goldschmidt, Victor M., Oslo, and R. Knudsen, assignors to Borgestad Fabrikker, Borgestad, near Skein, Norway. Ceramic material and binding agent as well as a process for producing such material. 1,756,786; Apr. 29.
Golinick, Paul A., and G. Harred, assignors, by mesne assignments, to Selectograph company, Chicago, Ill. Stacking mechanism. 1,756,920; Apr. 29.
Goodrich, B. F., Company, The. (See Richardson, Charles M., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Gordon, Albert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Two-weave loom dobby. 1,756,590; Apr. 29.
Gordon, Charles W., Pleasantville, assignor to The Superheater Company, New York, N. Y. Tube sheet. 1,756,458; Apr. 29.
Gordon, George N., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Marking and gauging device. 1,756,087; Apr. 29.
Gormley, Frank L., Chicago, Ill. Chain hoist. 1,756,459; Apr. 29.
Gotham Knitbac Machine Corporation. (See Leavin, William H., assignor.)
Goughnour, Charles L., Jefferson City, Tenn. Steam cooker. 1,756,787; Apr. 29.
Grammes, L. F., & Sons, Inc. (See Price, Charles S., assignor.)
Grant, John. (See Campbell, Stewart L., assignor.)
Grant, John. (See Santiago, James J., assignor.)
Graton & Knight Company. (See Griffith, W. S., and Hathaway, assignors.)
Graves, Walter S. (See Steiner, F. M., and Graves.)
Gray, Harlan D., E. Auxter, and J. A. Noble, sr., assignors to Superior Oil and Gas Separator Company, Incorporated, Shreveport, La. Gas and oil separator. 1,756,288; Apr. 29.
Green, George I., Los Angeles, Calif. Coffee steeper. 1,756,460; Apr. 29.
Green, Ray C., Salt Lake City, Utah. Electric-elevator door interlock. 1,756,788; Apr. 29.
Greene, Gilbert F., Washington, D. C. Shaving implement. 1,756,639; Apr. 29.
Greenfield Tap & Die Corporation. (See Judge, F., and Drake, assignors.)
Griffith, Winfred S., Worcester, Mass., and E. H. Hathaway, Apponaug, R. I., assignors to Graton & Knight Company, Worcester, Mass. Scarfing machine. 1,756,640; Apr. 29.
Griffiths, Septimus H., Wheeling, W. Va. Railway-rail joint. 1,756,859; Apr. 29.
Griswold, Thomas, jr., and R. M. Hunter, assignors to The Dow Chemical Company, Midland, Mich. Making magnesium chloride from chlorine and a magnesium base. 1,756,247; Apr. 29.
Groen, Christopher, assignor of one-half to H. G. Grosse, Oak Park, Ill. Method of and machine for drying and bleaching laundry. 1,756,821; Apr. 29.
Grosse, Herman G. (See Groen, Christopher, assignor.)
Gruber, Samuel A., assignor of one-half to H. M. Cribbs, Verona, Pa. Repair shim for brake linings. 1,756,353; Apr. 29.
Guarsteel Safety Stair Co. (See Felsenthal, Harold, assignor.)
Guedon, Emile C., Schenectady, N. Y., assignor to General Electric Company. Apparatus for producing sound. 1,756,860; Apr. 29.
Guillissen, Joseph, Anderlect, Brussels, assignor, by mesne assignments, to L'Union Chimique Belge, Societe Anonyme, Brussels, Belgium. Dry distillation of vinasses under reduced pressure. 1,756,191; Apr. 29.
Gunter, James E., Baltimore, Md. Forming and assembling machine and process. 1,756,427; Apr. 29.
Gunthard, August, Arcola, assignor to The Chemical Equipment Manufacturing Company, Paterson, N. J. Apparatus for applying a soft-metal surfacing to hard-metal plates. 1,756,789; Apr. 29.
Hack, Harold W., Shorthills, and J. M. Layng, Glenridge, N. J., assignors to Stewart Hartshorn Company. Sheet-metal curtain roller. 1,756,591; Apr. 29.
Hadley Company, The. (See Tost, Charles R., assignor.)
Halls, Edward T., assignor to Super San Towel Cabinet Company, Montgomery, Ala. Sanitary roll-towel cabinet. 1,756,822; Apr. 29.
Hale, Edward J., Minco, Okla. Grain-heading machine. 1,756,788; Apr. 29.
Hall Arch Company. (See Hall, Arthur F., assignor.)
Hall, Arthur F., assignor to Hall Arch Company, Philadelphia, Pa. Furnace. 1,756,485; Apr. 29.
Hall, Cortice H., Paterson, N. J., assignor to Domestic Stoker Company, New York, N. Y. Ash-removing device. 1,756,025; Apr. 29.
Hall, J. Goodwin. (See Payne, Clarence Q., assignor.)
Hall, Jewell H., et al. (See Johnson, Willard M., assignor.)
Hall-Neal Furnace Company. (See Neal, Harry W., assignor.)
Haltenberger, Jules, assignor to Jules Haltenberger, Incorporated, Indianapolis, Ind. Sleeve-valve engine. 1,756,684; Apr. 29.
Haltenberger, Jules, Incorporated. (See Haltenberger, Jules, assignor.)
Hamilton, Francis F. (See Van Voorhees, Harold E., assignor.)
Hamilton, George F., R. R. Holzapfel, F. J. Girty, and C. Lawton, Richmond, Ind. Ground stake. 1,756,641; Apr. 29.
Hanover, Harry, Philadelphia, Pa. Permanent-hair-waving apparatus. 1,756,740; Apr. 29.
Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)
Hansen, Oswald, New York, N. Y. Interchangeable name plate. 1,756,547; Apr. 29.
Hansen, Oswald H., Milwaukee, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Canfilling machine. 1,756,548; Apr. 29.
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Sterilising food. 1,756,549; Apr. 29.
Hansen, Oswald H., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Sterilizing food. 1,756,550; Apr. 29.
Hanson, Hans P., Chicago, Ill. Handle for flowerpots and saucers. 1,756,461; Apr. 29.
Hanson, John, Pelican Rapids, Minn. Air-pressure apparatus for automobiles. 1,756,192; Apr. 29.
Harding, Dana E., Melrose, assignor to Harding Engineering Company, East Boston, Mass. Marking machine. 1,756,163; Apr. 29.
Harding Engineering Company. (See Harding, Dana E., assignor.)
Harding Engineering Company. (See Wright, Wallace C., assignor.)
Harding, Milo M., Los Angeles, Calif. Drafting board. 1,756,289; Apr. 29.
Harred, George. (See Golinick, P. A., and Harred.)
Harris, Floyd E., Flint, Mich. Heat regulator. 1,756,823; Apr. 29.
Harrison, Frank G., Massillon, assignor to The Spun Steel Corporation, Canton, Ohio. Pulley. 1,756,592; Apr. 29.
Harshberger, Norman P., Pasadena, Calif. Roofing material. 1,756,743; Apr. 29.
Harshberger, Norman P., Pasadena, Calif., and R. P. Harshberger, South Bend, Ind.; said R. P. Harshberger assignor to said Norman P. Harshberger. Composition shingle. 1,756,741; Apr. 29.
Harshberger, Norman P., Chicago, Ill., and R. P. Harshberger, South Bend, Ind.; said R. P. Harshberger assignor to Norman P. Harshberger. Shingle. 1,756,742; Apr. 29.
Harshberger, Russell P. (See Harshberger, Norman P. and R. P.)
Hart, Alexander, New York, N. Y. Clock frame. Des. 81,054; Apr. 29.
Hart, Charles M., Waycross, Ga. Apparatus for molding plugs and the like. 1,756,193; Apr. 29.
Hartford-Empire Company. (See Budd, Clinton S., assignor.)
Hartford-Empire Company. (See Canfield, Robert W., assignor.)
Hartford-Empire Company. (See Howard, George E., assignor.)
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartford-Empire Company. (See Tucker, O. M., and Reeves, assignors.)
Hartmann, Anton. (See Nischke, Henry, assignor.)
Hartzell Industries, Inc. (See Charavay, Frederick, assignor.)
Hasemann, Friedrich, Essen-Ruhr, Germany. Device for regulating flow of fluids. 1,756,824; Apr. 29.
Hashimoto, Tokujiro, Tokyo, Japan. Manufacturing toilet material. 1,756,152; Apr. 29.
Hatch, Charles T., assignor to Union Steel Products Company, Albion, Mich. Coating machine. 1,756,744; Apr. 29.
Hatcher, James L., Brooks Field, Tex. Rear light. 1,756,685; Apr. 29.
Hathaway, Edward H. (See Griffith, W. S., and Hathaway.)
Haug, Anton J., Nashua, N. H. Process and machine for thickening pulp. 1,756,194; Apr. 29.
Haug, Richard J., Nashua, N. H. Viscosity-measuring device. 1,756,120; Apr. 29.
Hausler, Herbert J. (See Karns, Ira A., assignor.)
Hawks, Arthur S., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Compressor valve. 1,756,060; Apr. 29.
Hayes, Frank A., Keyport, N. J. Variable-speed power-transmission mechanism. 1,756,061; Apr. 29.
Hayes, Thomas R., Monrovia, Calif. Chair. 1,756,551; Apr. 29.
Heald Machine Company, The. (See Kempton, H. E., Gallimore, and Woytych, assignors.)
Heater, Freeman F., Seattle, Wash. Aviator's helmet. Des. 81,055; Apr. 29.
Heather, Herbert, et al. (See Hutton, J., and Bacon, assignors.)
Hedgpeth, Theron L., Berkeley, Calif. Support for portable saws. 1,756,121; Apr. 29.
Heibig, Charles E., Mennecy, France. Internal-combustion engine of the two-stroke type. 1,756,854; Apr. 29.
Heitz, Leonard F., Lake Mills, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Valve-operating mechanism. 1,756,552; Apr. 29.
Hellmers, Henry D., Westend, assignor to West End Chemical Company, Oakland, Calif. Recovering borax from brine. 1,756,122; Apr. 29.

Helmond, William F., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,756,513; Apr. 29.

Hempstead, Charles S., New Salem, assignor of one-half to W. B. Wharton, Pittsburgh, Pa. Clamp for positioning metallic curb edging. 1,756,514; Apr. 29.

Henderson, Kirby T., assignor to The Miller Rubber Company, Akron, Ohio. Preparing cord fabric for tire building. 1,756,355; Apr. 29.

Henry, Cashly A., Dayton, Ohio. Electric condenser for high-tension ignition circuits. 1,756,486; Apr. 29.

Herthel, Eugene C. (See Vobach, A. C., and Herthel.)

Herthel, Eugene C., Chicago, Ill., and H. L. Pelser, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y. Manufacture of lubricating oils. 1,756,153; Apr. 29.

Herthel, Eugene C., Chicago, Ill., and H. L. Pelser, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y. Refining hydrocarbon oils. 1,756,154; Apr. 29.

Herthel, Eugene C., Chicago, Ill., H. L. Pelser, Highland, and J. G. Stafford, Whiting, Ind., assignors to Sinclair Refining Company, New York, N. Y. Refining hydrocarbon oils. 1,756,155; Apr. 29.

Herthel, Eugene C., Chicago, Ill., and H. L. Pelser, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y. Refining hydrocarbon oils. 1,756,156; Apr. 29.

Hess, Carl F., Comstock Park, Mich. Automobile seat construction. 1,756,824; Apr. 29.

Hibner, Charles G., Los Angeles, Calif. Combination sink and garbage receptacle. 1,756,290; Apr. 29.

Hickok Manufacturing Company. (See Shields, Lowell W., assignor.)

Higgin Manufacturing Company, The. (See Pendery, Edward, assignor.)

Hill, Irving, assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans. One-piece eyelet. 1,756,356; Apr. 29.

Hilliard, John H., New York, N. Y., assignor to The Turner and Seymour Mfg. Company. Can opener. 1,756,487; Apr. 29.

Hilmer, Charles, Chicago, Ill. Window-operating device. 1,756,357; Apr. 29.

Hilton, Alfred, et al. (See Winning, John F. F., assignor.)

Hincher Manufacturing Company. (See Holliday, John F., assignor.)

Hinton, George B., Mexico City, Mexico. Making cementitious material of cellular texture. 1,756,789; Apr. 29.

Hippenmeyer, Irving R., Waukesha, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Unloading mechanism for bottle washers. 1,756,553; Apr. 29.

Hippenmeyer, Irving R., Waukesha, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Bottle-washing machine. 1,756,554; Apr. 29.

Hitchcock, Helen S., New York, N. Y. Toy animal. 1,756,555; Apr. 29.

Hixon, Ralph M. (See Arnold, R. B., and Hixon.)

Hobbs, Edwin E., Independence, Kans. Radio apparatus. 1,756,745; Apr. 29.

Hodge, Alfretta. (See Hodge, Howard Y., assignor.)

Hodge, Howard Y., assignor to A. Hodge, Seneca Falls, N. Y. Window ventilator and screen. 1,756,088; Apr. 29.

Hoe, R., & Co. (See Schmidt, Louis A., assignor.)

Hogan, John R., Altavista, Va., assignor to The Lane Company, Inc., Cedar chest. 1,756,746; Apr. 29.

Hoke, Harry H., jr., Washington, D. C. Game attachment for coin machines. 1,756,861; Apr. 29.

Holdaway, Hall H., Long Beach, assignor to Byron Jackson Co., West Berkeley, Calif. Antifriction bearing for drill pipes. 1,756,195; Apr. 29.

Holden, Arthur P., and P. Morgan, Toronto, Ontario, Canada. Electric ignition for oil burners. 1,756,686; Apr. 29.

Holford, Harvey, Separators, Limited. (See Holford, Hastings J., assignor.)

Holford, Hastings J., assignor to Harvey Holford Separators, Limited, London, England. Separator for the treatment of mixtures of mutually-insoluble liquids. 1,756,862; Apr. 29.

Holland, Lionel, Calcutta, British India. Aeroplane-landing means. 1,756,747; Apr. 29.

Holliday, John F., assignor to Hincher Manufacturing Company, Washington, Ind. Removable folding seat. 1,756,687; Apr. 29.

Hollup, Charles H., Chicago, Ill., assignor to Hollup Corporation. Electrode holder. 1,756,556; Apr. 29.

Hollup Corporation. (See Hollup, Charles H., assignor.)

Hollup Corporation. (See Pennington, Harry R., assignor.)

Holst, Lodewyk J. R., Brookline, Pa., assignor, by mesne assignments, to Brock & Weymouth, Incorporated. Measuring stereoscope. 1,756,062; Apr. 29.

Holzapfel, Richard R. (See Hamilton, G. F., Holzapfel, Girty, and Lawton.)

Holzwarth Gas Turbine Co. (See Sedlmeir, Michael, assignor.)

Hoopes, Penrose R., Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J. Trimming machine. 1,756,826; Apr. 29.

Hoover Company, The. (See Page-Wood, Gerald, assignor.)

Hopkins, Ben F., and J. V. O. Palm, Cleveland Heights, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making metal sheets. 1,756,196; Apr. 29.

Hopkins, George W., Cleveland, Ohio. Film drier. 1,756,197; Apr. 29.

Horne, Eber B., East Cleveland, Ohio. Rug-hanging apparatus. 1,756,642; Apr. 29.

Horner, William E., Ranger, Tex., assignor to L. J. Mildren, Ponca City, Okla. Belt tightener. 1,756,557; Apr. 29.

House, Bryan B., Flint, assignor to General Motors Corporation, Detroit, Mich. Brake. 1,756,827; Apr. 29.

Howard, Charles O., assignor of one-third to T. K. Wissinger and one-third to M. A. Pixley, Columbus, Ohio. Detachable wheel hub. 1,756,643; Apr. 29.

Howard, George E., Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn. Apparatus for annealing glassware. 1,756,244; Apr. 29.

Hoxie, Charles A., Schenectady, N. Y., assignor to General Electric Company. Making motion-picture films. 1,756,863; Apr. 29.

Hoxie, Charles A., Alplaus, N. Y., assignor to General Electric Company. Film-driving apparatus. 1,756,864; Apr. 29.

Hoyt, Robert C., Oakland, Calif. Water-heater gas burner. 1,756,748; Apr. 29.

Huber, Herman J. H., Upper Darby, Pa., and H. Trencham, Ruislip, England, assignors to General Electric Company. High-potential switching station. 1,756,865; Apr. 29.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Refining oils. 1,756,026; Apr. 29.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for removing carbonaceous deposits from oil apparatus. 1,756,027; Apr. 29.

Huff, Lyman C., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for removing carbon deposits from oil apparatus. 1,756,028; Apr. 29.

Hulsey, Jennings T., Webb City, Mo. Adjustable motor base. 1,756,515; Apr. 29.

Hultgren, Charles R., assignor to S. Karpen & Bros., Chicago, Ill. Adjustable-back chair, etc. 1,756,644; Apr. 29.

Hunker, Martin L., assignor to The Reeves Manufacturing Company, Dover, Ohio. Bottom construction for cans. 1,756,593; Apr. 29.

Hunt, William F., New Brighton, J. K. Mabbs, Bayside, N. Y., and W. B. Rowland, Upper Montclair, N. J., assignors to Oxweld Acetylene Company. Filament mounting for gas-detecting apparatus. 1,756,749; Apr. 29.

Hunter, John S., Coalinga, Calif. Long-stroke pumping jack. 1,756,089; Apr. 29.

Hunter, Ralph M. (See Griswold, T., jr., and Hunter.)

Hupp, Irvin, Chicago, Ill. Clutch mechanism. 1,756,063; Apr. 29.

Hupp Motor Car Corporation. (See MacPherson, Earle S., assignor.)

Hurrell, Guy C., London, England. Homogenizing machine. 1,756,198; Apr. 29.

Hutchens, Ralph W. (See Staake, Spencer O., assignor.)

Hutchings, Le Roi E., Buffalo, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Filing device. 1,756,866; Apr. 29.

Hutchinson, Frank L., Wauwatosa, Wis. Automatic fluid-temperature-control valve. 1,756,688; Apr. 29.

Hutton, James, Monton, and J. Bacon, assignors to J. Bacon, London, and H. Heather, Catford, England. Advertising sign using reflected sight. 1,756,090; Apr. 29.

I. G. Farbenindustrie Aktiengesellschaft. (See Richter, Erich, assignor.)

Igou, Dennis T., Springfield, Ohio. Candy-cutting machine. 1,756,750; Apr. 29.

Ingersoll-Rand Company. (See Mack, Albert R., assignor.)

Ingram, William A., Jeffersonville, Ind., assignor to Rawlings Manufacturing Company, St. Louis, Mo. Combined hip and kidney pad for football players. 1,756,358; Apr. 29.

International Combustion Engineering Corporation. (See Cross, Bertram J., assignor.)

International Combustion Engineering Corporation. (See Wiebe, Sigurd J. A., assignor.)

International Motor Company. (See Jupp, William B., assignor.)

International Spotlight Corporation. (See Sklarek, Clifford, assignor.)

Ives, Charles A., Erie, Pa., assignor to General Electric Company. Brake system. 1,756,922; Apr. 29.

Ives, Charles A., and G. Macloskie, Erie, Pa., assignors to General Electric Company. Brake system. 1,756,921; Apr. 29.

Ives, Willis H., Owego, N. Y. Windshield-wiper blade. 1,756,751; Apr. 29.

Jack, Clarence E., Newburgh, N. Y. Hydraulic brake. 1,756,904; Apr. 29.

Jackson, Alfred F., assignor to Apco Mossberg Corporation, Attleboro, Mass. Cigar lighter. 1,756,013; Apr. 29.

Jacobs, Homer L. (See Davey, P. H., Jacobs, and Davey.)

Jacoby, Gustave, assignor to The Enro Shirt Company, Louisville, Ky. Soft collar. 1,756,752; Apr. 29.

Jagenberg, Emil, Dusseldorf, Germany. Manufacture of paper boxes, cardboard boxes, and the like. 1,756,859; Apr. 29.

Jamerson, Paul C., et al. (See Johnson, Willard M., assignor.)

Jamerson, Peter S., et al. (See Johnson, Willard M., assignor.)

James Manufacturing Company. (See Olson, J. B., and Young, assignors.)

Jarrett, Claude W., and G. H. Skerritt, assignors to Brown-Lipe Gear Company, Syracuse, N. Y. Five-speed transmission gearing. 1,756,123; Apr. 29.

Jefferson Electric Company. (See Johnson, Chester A., assignor.)

Jeffries, Charles W., assignor of one-half to E. C. Reid, Lake Charles, La. Paper-roll adjustment for typewriters, etc. 1,756,753; Apr. 29.

Jenkins, Charles F., Washington, D. C. Altimeter. 1,756,462; Apr. 29.

Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Cell persistence transmitter. 1,756,291; Apr. 29.

Jenkins, Charles F., assignor to Jenkins Laboratories, Washington, D. C. Synchronous motor coupling. 1,756,689; Apr. 29.

Jenkins Laboratories. (See Jenkins, Charles F., assignor.)

Jennings, Irving C., South Norwalk, Conn. Rotary gas pump. 1,756,594; Apr. 29.

Jennings, Irving C., South Norwalk, Conn. Duplex wet vacuum pumping apparatus. 1,756,595; Apr. 29.

Jennings, Irving C., South Norwalk, Conn. External support for bearings of motor-driven pumps. 1,756,645; Apr. 29.

Jensen, Harald, Oslo, Norway. Manufacturing thick webs of wood pulp, cellulose, and similar materials. 1,756,764; Apr. 29.

Jezek, Anton, assignor of one-half to G. A. Bethke, Hopkins, Minn. Combined automobile and aeroplane. 1,756,463; Apr. 29.

Jochum, J. H., jr. (See Weber, John J., assignor.)

Johnson, Charles E., New York, N. Y. Kitchenette and medicine cabinet. 1,756,828; Apr. 29.

Johnson, Chester A., assignor to Jefferson Electric Company, Chicago, Ill. Cable clamp. 1,756,360; Apr. 29.

Johnson, Chester A., assignor to Jefferson Electric Company, Chicago, Ill. Outlet-box mounting. 1,756,361; Apr. 29.

Johnson, Ernest S., assignor to Knapp-Monarch Company, Webster City, Iowa. Electric toaster. 1,756,784; Apr. 29.

Johnson, Willard M., assignor of twelve and one-fourth per cent to W. A. Oberkrom, twelve and one-fourth per cent to P. S. Jamerson, twelve and one-fourth per cent to P. C. Jamerson, and twelve and one-fourth per cent to J. H. Hall, Kansas City, Mo. Combined cooking and heating apparatus. 1,756,690; Apr. 29.

Jones, Edward N., Pittsburgh, Pa., assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio. Truck for transporting concrete. 1,756,091; Apr. 29.

Jones, Frank H., et al. (See Jones, Frank H., assignor.)

Jones, Frank H., Cleveland, assignor to A. B. Whitney and F. H. Jones, Upper Sandusky, Ohio. Clutch. 1,756,428; Apr. 29.

Jordan, Henry, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dye and making the same. 1,756,248; Apr. 29.

Jorgensen, Oluf K. (See Jorgensen, Victor E., T. J., and O. K.)

Jorgensen, Thorvald J. (See Jorgensen, Victor E., T. J., and O. K.)

Jorgensen, Victor E., T. J., and O. K., Hempstead, N. Y. Submarine safety device. 1,756,464; Apr. 29.

Jouret, Oscar A., Moosup, assignor to The Lester & Wasley Company, Inc., Norwich, Conn. Decking and scoring machine. 1,756,157; Apr. 29.

Judge, Franklin, and A. M. Drake, assignors to Greenfield Tap & Die Corporation, Greenfield, Mass. Wheel dressing device for grinding machines. 1,756,646; Apr. 29.

Junkers, Hugo, Dessau, Germany. Sheet-metal cutter. 1,756,362; Apr. 20.

Jupp, William B., assignor to International Motor Company, New York, N. Y. Exhaust manifold. 1,756,465; Apr. 29.

Kaelma Manufacturing Company. (See Wiley, James S., assignor.)

Kagelmann, Max, Berlin-Niederschonhausen, and A. Eulenhöfer, Konigswusterhausen, near Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. System for picture transmission. 1,756,363; Apr. 29.

Kalle & Co. Aktiengesellschaft. (See Schmidt, M. P., and Krieger, assignors.)

Kamrowski, Anton P., Cochrane, Wis. Tractor grain binder. 1,756,199; Apr. 29.

Kaplan, Benjamin, and L. Rosenberg, New York, N. Y. Coat lining. 1,756,829; Apr. 29.

Karns, Ira A., Wichita Falls, Tex., assignor to H. J. Hausler. Attachment for well-drilling rigs. 1,756,864; Apr. 29.

Karpen, S., & Bros. (See Hultgren, Charles R., assignor.)

Katona, Louis F., Los Angeles, Calif. Sewer-flushing device. 1,756,596; Apr. 29.

Katzinger, Arthur, Glencoe, assignor to Edward Katzinger Company, Chicago, Ill. Baking tray. 1,756,558; Apr. 29.

Katzinger, Edward, Company. (See Katzinger, Arthur, assignor.)

Kaufman, Solomon, New York, N. Y. Nonspillable container. 1,756,249; Apr. 29.

Kaufman, Walter F., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Color fountain for block-printing machines. 1,756,200; Apr. 29.

Keenan, William E., Lefors, assignor of one-half to J. M. Thomas, Pampa, Tex. Oil-well-casing head. 1,756,597; Apr. 29.

Kellogg, John L., assignor to Warren-teed Seed Company, Chicago, Ill. Treating seeds to secure uniform germination. 1,756,488; Apr. 29.

Kellogg, Stephen M., Knoxville, Tenn. Driving belt for cone pulleys. 1,756,790; Apr. 29.

Kempton, Herbert E., K. F. Gallimore, and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Work holder. 1,756,124; Apr. 29.

Kerr, Howard J., Westfield, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Furnace. 1,756,755; Apr. 29.

Kibele, Otto B., Wilmington, Calif. Direct-action thermostatic feed-water control. 1,756,125; Apr. 29.

Kiernan, John E., Brooklyn, N. Y. Loud-speaker. 1,756,201; Apr. 29.

Kimball-Krogh Pump Company. (See Bowlzer, Alfred H., jr., assignor.)

Kimball, Samuel E. (See Moore, Thomas J., assignor.)

King, C. G., & Co. Inc. (See Smith, Walter E., assignor.)

King, Vernon C., Worcester, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y. Conveyer belt. 1,756,598; Apr. 29.

King's, Julia, Candy Corporation. (See Phelps, Robert W., assignor.)

Kirkpatrick, Marie, Grand Rapids, Mich., assignor to Ficks Reed Company, Cincinnati, Ohio. Chair. Des. 81,056; Apr. 29.

Kirsch, Charles W., assignor, by mesne assignments, to Kirsch Company, Sturgis, Mich. Drapery-suspension fixture. 1,756,365; Apr. 29.

Kirsch Company. (See Kirsch, Charles W., assignor.)

Klein, Abraham, and L. Esterow, assignors to Columbia Stamping Products Co. Inc., New York, N. Y. Vanity case or similar container. Des. 81,057; Apr. 29.

Kline, Herbert J., Jackson, Mich. Internal-combustion engine. 1,756,029; Apr. 29.

Klopstock, Hans, Berlin, Germany. Cutting tool. 1,756,516; Apr. 29.

Knapp, Edward J., La Grange, Ill. Combined mail box, house number, knocker, and light therefor. 1,756,559; Apr. 29.

Knapp-Monarch Company. (See Johnson, Ernst S., assignor.)

Knight, Floyd A., and C. E. Rowe, Cedar Rapids, Iowa. Meat-washing machine. 1,756,517; Apr. 29.

Knudsen, Rolf. (See Goldschmidt, V. M., and Knudsen.)

Knutsen, Elmer, Bellingham, Wash. Laundry drier. 1,756,366; Apr. 29.

Kny-Scheerer Corporation of America, The. (See Gallowitz, Gustave A., assignor.)

Kny-Scheerer Corporation of America, The. (See Lindberg, Ernest O., assignor.)

Kobel, Ernst. (See Gaudenzi, A., and Kobel.)

Kohler Company. (See Brotz, Frank G., assignor.)

Kondysar, Anthony L., Poughkeepsie, N. Y. Cigarette case. 1,756,900; Apr. 29.

Konn, Felix, Erie, Pa., assignor to General Electric Company. Control system for alternating-current commutator machines. 1,756,867; Apr. 29.

Kopp, Reinhold A., assignor to W. M. Welch Mfg. Co., Chicago, Ill. Scale pan. 1,756,292; Apr. 29.

Koppers Company, The. (See Becker, Joseph, assignor.)

Kownatsky, Rubin, New York, N. Y. Adjustable window screen. 1,756,030; Apr. 29.

Krämer, Christian, Berlin-Pankow, Germany, assignor to General Electric Company. Mercury-arc rectifier. 1,756,868; Apr. 29.

Kraney, Karl F., Guben, Germany. Apparatus for dyeing hat bodies and similar materials. 1,756,599; Apr. 29.

Kremnec, Frank W., assignor to The De Vilbiss Company, Toledo, Ohio. Work-truing means. 1,756,293; Apr. 29.

Kreuter, Frank H., Philadelphia, Pa. Juice extractor. 1,756,250; Apr. 29.

Kridel, J., Sons & Co. (See Bader, Fred W., assignor.)

Krieger Wilhelm. (See Schmidt, M. P., and Krieger.)

Krueger, Adolph, assignor to Marvel Specialties Corporation, Newark, N. J. Window closer. 1,756,560; Apr. 29.

Kuchinsky, Matthew K., Newark, N. J. Loud-speaker unit. 1,756,791; Apr. 29.

L. & B. Jewelry Manufacturing Company. (See Berthermann, Sidney J., assignor.)

Lampert, Henry H., Chicago, Ill. Form clamp. 1,756,691; Apr. 29.

Landrum, William W., League City, assignor of one-half to H. G. Mobley, Houston, Tex. Drill. 1,756,489; Apr. 29.

Lane Company, The. (See Hogan, John R., assignor.)

Larsen, Olaf, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Apparatus for filling and capping bottles. 1,756,561; Apr. 29.

Larsson, Markus, Niagara Falls, N. Y., assignor, by mesne assignments, to Du Pont Ammonia Corporation, Wilmington, Del. Producing phosphoric acid and hydrogen. 1,756,429; Apr. 29.

Lathe, Frank E., Ottawa, Ontario, Canada. Refining nickel-copper matte. 1,756,092; Apr. 29.

Lathrop, Harry D. (See Paulson, Walter H., assignor.)

Lawrence Paper Manufacturing Company. (See Hill, Irving, assignor.)
Lawton, Clarence. (See Hamilton, G. F., Holzapfel, Girty, and Lawton.)
Lay, J. Coy, et al. (See Riley, Charles T., assignor.)
Layng, John M. (See Hack, H. W., and Layng.)
Leach, Vernon G., Chicago, Ill. Air-cooled furnace block. 1,756,031; Apr. 29.
Leavin, William H., assignor to Gotham Knitbac Machine Corporation, New York, N. Y. Run-repairing multiple-needle hand tool. 1,756,294; Apr. 29.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Latch mechanism. 1,756,202; Apr. 29.
Lee, Charles L., assignor to General Motors Research Corporation, Detroit, Mich. Metallic bellows. 1,756,911; Apr. 29.
Lee, Reuben G. (See Flagstad, O. A., and Lee.)
Lee, Royal B., San Diego, Calif. Perpetual calendar. 1,756,600; Apr. 29.
Lefebvre, Omer F., Montreal, Quebec, Canada. Stamp-canceling machine. 1,756,647; Apr. 29.
Leland Electric Company, The. (See Leland, George H., assignor.)
Leland, George H., Dayton, Ohio, assignor of one-half to The Leland Electric Company. Brush-lifting mechanism for electric motors and the like. 1,756,692; Apr. 29.
Le Quornik, Herman. (See Salvati, D., and Le Quornik.)
Lester & Wasley Company, The. (See Jouret, Oscar A., assignor.)
Letts, Charles R., Johnson City, N. Y. Folding support. 1,756,792; Apr. 29.
Leuck, Gerald J., Evanston, assignor to The Quaker Oats Company, Chicago, Ill. Manufacture of dithio derivatives from aldehydes. 1,756,158; Apr. 29.
Levin, Borris M., San Francisco, Calif. Gentleman's cravat, four-in-hand type. 1,756,295; Apr. 29.
Levy, Charles M., New York, N. Y. Finger ring. Des. 81,058; Apr. 29.
Libbey-Owens Glass Company. (See Reece, Joseph A., assignor.)
Liebowitz, Alfred, Mount Vernon, N. Y. Hickey and mounting therefor. 1,756,159; Apr. 29.
Lidgerwood Manufacturing Company. (See Dickinson, Joseph H., assignor.)
Lillian, Emil V., Lindsborg, Kans. Flytrap. 1,756,648; Apr. 29.
Limousin, Jules. (See Blaudeau, J. B., Limousin, Rousseaux, and Dumont.)
Lindberg, Ernest O., Jamaica, assignor to The Knyscheerer Corporation of America, New York, N. Y. Sterile indicating means in sterilizing thermometers. 1,756,064; Apr. 29.
Linderborg, Nils G., New York, N. Y. Method of and apparatus for treating vapors, gases, and the like. 1,756,693; Apr. 29.
Lindsay, William, assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Electric socket. 1,756,562; Apr. 29.
Lindsey, George, Stoke Newington, London, England. Sign, tablet, or the like for day and night display. 1,756,203; Apr. 29.
Line Material Company. (See Dohrwardt, John F., assignor.)
Link, Louis, Baton Rouge, La., assignor to Standard Oil Development Company. Cracking hydrocarbons. 1,756,563; Apr. 29.
Linn, Herman C., assignor to W. F. Rawlings, Cleveland, Ohio. Vacuum-cleaner apparatus. 1,756,204; Apr. 29.
Linney, Albert T., Lexington, Ky. Toy gun. Des. 81,059; Apr. 29.
Loeffel Lester H., assignor to The Berger Brothers Company, New Haven, Conn. Corset construction. 1,756,367; Apr. 29.
Loehr, Harry M., La Grange, assignor of one-fourth to F. H. Foster and one-fourth to G. H. Shank, Chicago, Ill. Arm rest for automobiles. 1,756,694; Apr. 29.
Loewe, Siegmund, Berlin, Germany, assignor to Radio Corporation of America. Resistor and making same. 1,756,368; Apr. 29.
Lobs, Karl, Aue-in-Sachsen, Germany. Pressing wheel naves and similar articles. 1,756,160; Apr. 29.
Loomis, Nathaniel E., Westfield, N. J., assignor to Standard Oil Development Company. Continuous distillation. 1,756,032; Apr. 29.
Lord & Burnham Company. (See Roy, William, assignor.)
Lorenz, C., Aktiengesellschaft. (See Kagelmann, M., and Eulenhöfer, assignors.)
Longovoy, Boris N., Montclair, N. J., assignor to Ellis-Foster Company. Phthalic-urea resin and making same. 1,756,251; Apr. 29.
Longovoy, Boris N., assignor to Ellis-Foster Company, Montclair, N. J. Synthetic product and making same. 1,756,252; Apr. 29.
Lovell, Nolan C., Birmingham, Ala. Switch-operating apparatus. 1,756,369; Apr. 29.
Lucas, Eugene, Babylon, N. Y. Pipe. 1,756,695; Apr. 29.
Luehrman, Charles G., Chicago, Ill. Safety device for elevators. 1,756,370; Apr. 29.
L'Union Chimique Belge, Societe Anonyme. (See Guillissen, Joseph, assignor.)
Lykken, Henry G., Minneapolis, Minn. Device for reducing materials. 1,756,253; Apr. 29.
Lykken, Henry G., Minneapolis, Minn. Fluidizer and method of fluidizing. 1,756,254; Apr. 29.
Mabbs, John K. (See Hunt, W. F., Mabbs, and Rowland.)
Mabbs, John K., Bayside, N. Y., assignor to Oxweld Acetylene Company. Head for gas detectors. 1,756,794; Apr. 29.
Mabbs, John K., Bayside, and H. C. Stelling, Orangeburg, N. Y., assignors to Oxweld Acetylene Company. Head for gas detectors. 1,756,795; Apr. 29.
MacCullough, Leonard B. (See Collins, Arthur H., assignor.)
Macloskie, George. (See Ives, C. A., and Macloskie.)
Mack, Albert R., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,756,466; Apr. 29.
Mackall, Kenneth W., assignor to Crouse-Hinds Co., Syracuse, N. Y. Traffic signaling system. 1,756,490; Apr. 29.
Maclean, James B., London, England. Trap and separator for immiscible liquids. 1,756,869; Apr. 29.
MacPherson, Earle S., assignor to Hupp Motor Car Corporation, Detroit, Mich. Manifold. 1,756,161; Apr. 29.
Madden, Jesse F., Rockville Center, N. Y., and E. E. Overholt, Washington, D. C., assignors to Page-Madden Company, Brooklyn, N. Y. Washboard-tensioning device. 1,756,640; Apr. 29.
Madsen, Sern, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Window-frame machine. 1,756,296; Apr. 29.
Magazine Repeating Razor Company. (See Schick, Jacob, assignor.)
Makino, Fred K. (See Tanigawa, Tomizo, assignor.)
Mallouk, Salim N., Brooklyn, N. Y. Embroidered table cover or the like. Des. 81,060; Apr. 29.
Maples, Jack B., Middlesboro, Ky. Signal. 1,756,126; Apr. 29.
Marble, B. L., Chair Company, The. (See Fortney, Frank F., assignor.)
Marsden, John E., Philadelphia, Pa. Tumbler or similar article. Des. 81,061; Apr. 29.
Marsh, Walter H., Pittsburgh, Pa. Flow indicator. 1,756,491; Apr. 29.
Marshall, Harry C., Arcadia, assignor to Union Oil Company of California, Los Angeles, Calif. Elevated central header for gas lifts. 1,756,830; Apr. 29.
Marsilius, Newman M., assignor, by mesne assignments, to The Products Machine Company, Bridgeport, Conn. Milling machine. 1,756,831; Apr. 29.
Martin, Earle, Cleveland, Ohio. Preparing mats for use in making printing plates. 1,756,564; Apr. 29.
Martin, Glenn L., Company, The. (See Armington, G. E., and Nightingale, assignors.)
Martin, Henry K., assignor to Breslin Brothers Carpet Company, Inc., Gloucester, N. J. Attachment for looms. 1,756,093; Apr. 29.
Martin, Jesse C., jr., San Francisco, Calif. Plug valve. 1,756,650; Apr. 29.
Marvel Specialties Corporation. (See Krueger, Adolph, assignor.)
Marx, John F., assignor of one-half to G. G. Burns, Rochester, N. Y. Self-feeding match case. 1,756,127; Apr. 29.
Massolle, Joseph. (See Engl, J., Vogt, and Massolle.)
Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Strain insulator. 1,756,651; Apr. 29.
Maurer, Conrad B., and H. P., Philadelphia, Pa. Scenic display device. 1,756,565; Apr. 29.
Maurer, Howard P. (See Maurer, Conrad B., and H. P.)
Maxim, Hiram P., and R. B. Bourne, assignors, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,756,297; Apr. 29.
Maxim Silencer Company, The. (See Bourne, Roland B., assignor.)
Maxim Silencer Company, The. (See Maxim, H. P., and Bourne, assignors.)
May, Henry A., San Diego, Calif. Desk-basket lifter. 1,756,870; Apr. 29.
Mayer, Benjamin, New York, N. Y. Theftproof pocket. 1,756,467; Apr. 29.
Maynard, Joseph A., Boston, Mass. Pressure, temperature, and vacuum safety relief valve. 1,756,652; Apr. 29.
Maynes, Emma C. (See Maynes, Hyla F., assignor.)
Maynes, Hyla F., assignor of one-half to E. C. Maynes, North Tonawanda, N. Y. Amusement ride. 1,756,832; Apr. 29.
McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company. Furnace-charging conveyer. 1,756,653; Apr. 29.
McCann, Paul S., La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Continuously-loaded conductor. 1,756,871; Apr. 29.
McClellan, Benjamin S.; K. B. McClellan, conservator, Chicago, Ill. Track liner. 1,756,372; Apr. 29.
McClellan, Kate B., conservator. (See McClellan, Benjamin S.)
McConnell, Harry E. (See Brownsberger, H. J., and McConnell.)
McDonald, Martin, Washington, D. C. Doorknob attachment. 1,756,871; Apr. 29.
McElhaney, Robert S., Barton, Ohio. Gap detector for railway switches. 1,756,601; Apr. 29.
McGrail, John R., Lynn, Mass. Shoe-shank supporter. 1,756,872; Apr. 29.
McGuirk, Charles W., Albany, N. Y. Flexible metallic coupling. 1,756,094; Apr. 29.
McKercher, Joseph A., New Westminster, British Columbia, Canada. Treating shingles and the like. 1,756,373; Apr. 29.

McMillan, Levy, Toronto, Ontario, Canada. Cargo-discharging apparatus. 1,756,518; Apr. 29.
McNairy, Jacob W., Schenectady, N. Y., assignor to General Electric Company. Electroresponsive device. 1,756,923; Apr. 29.
McNairy, Jacob W., Schenectady, N. Y., assignor to General Electric Company. Unidirectional electrical inductive apparatus and system. 1,756,924; Apr. 29.
McNee, George, Belwood, Ontario, Canada. Stovepipe. 1,756,696; Apr. 29.
Meek, Sterner S., United States Army, Philadelphia, Pa. Combustible. 1,756,255; Apr. 29.
Meigs, Joseph V. (See Ellis, C., and Meigs.)
Meisel, George J. and B. Sklerov, New York, N. Y. Buckle. Des. 81,062; Apr. 29.
Merrick & Longbottom, Inc. (See Merrick, Sumner B., assignor.)
Merrick, Sumner B., Hanover, Mass., assignor to Merrick & Longbottom, Inc. Polished rod for oil-well pumping. 1,756,205; Apr. 29.
Merrill, Harry C., assignor to The Eagle-Picher Lead Company, Cincinnati, Ohio. Casting machine. 1,756,654; Apr. 29.
Metal & Thermit Corporation. (See Crum, Abram G., assignor.)
Metalweld Service Corporation. (See Oechsle, Joseph S., assignor.)
Metten, John F., Philadelphia, Pa. Cruising-turbine arrangement. 1,756,298; Apr. 29.
Meyer, A. W. (See Bredow, Ewald, assignor.)
Miche de Malleray, Alain G. L. G. M., Langeais, France. Automatic machine for milling ornamental grooves in buttons and the like. 1,756,873; Apr. 29.
Micro Machine Company. (See Baumberger, William J., assignor.)
Midland Steel Products Company, The. (See Sneed, John, assignor.)
Midland Steel Products Company, The. (See Woodhead, Harry, assignor.)
Mijares, Anilo, Yonkers, N. Y. Carburetor. 1,756,430; Apr. 29.
Mijares, Anilo, Yonkers, N. Y. Carburetor. 1,756,431; Apr. 29.
Miketta, Casimir A., Los Angeles, Calif., assignor, by mesne assignments, to Celite Corporation, New York, N. Y. Material for use in treatment of liquids. 1,756,906; Apr. 29.
Mildren, Lory J. (See Horner, William E., assignor.)
Miller, Frank, et al. (See Brost, Charles A., assignor.)
Miller, H. H., Industries Company, The. (See Pfouts, Leroy S., assignor.)
Miller Rubber Company, The. (See Allensworth, Fred L., assignor.)
Miller Rubber Company, The. (See Henderson, Kirby T., assignor.)
Miller Saw-Trimmer Company. (See Upham, Burt F., assignor.)
Miller, Swift. (See Van Valkenburg, H. L., and Miller.)
Miller, Theodore A. (See Fleiter, A. J., Bostwick, and Miller.)
Milliken, Humphreys, Montreal, Quebec, Canada. Circuit breaker. 1,756,374; Apr. 29.
Million, Morris, Brooklyn, N. Y. Lollipop machine. 1,756,375; Apr. 29.
Minami, Kamekichi, Los Angeles, Calif. Blade-sharpening device for lawn mowers. 1,756,162; Apr. 29.
Mitchell, Ira S., Kansas City, Mo. Barber's chair. 1,756,756; Apr. 29.
Mitchell, John F., assignor of forty-five per cent to L. G. Williams, Cotton Valley, La. Fluid-expanded piston for oil pumps. 1,756,795; Apr. 29.
Mitchell, Lewis E., J. L. Connors, and S. M. Pineles, assignors to H. B. Staver, Chicago, Ill. Dog-racing apparatus. 1,756,065; Apr. 29.
Mobley, H. G. (See Landrum, William W., assignor.)
Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Thread-controlling mechanism for sewing machines. 1,756,655; Apr. 29.
Moller, Conrad G., New Canaan, Conn., assignor to American Hair & Felt Company, Chicago, Ill. Pneumatic apparatus for producing mats or bats of fibrous materials. 1,756,468; Apr. 29.
Monro, Archibald V. H., Wellington, New Zealand. Protective closure or container for hose and the like. 1,756,874; Apr. 29.
Monroe, Albert M., Taft, Calif. Casing cutter. 1,756,128; Apr. 29.
Montsinger, Vincent M., Pittsfield, Mass., assignor to General Electric Company. Regulating system. 1,756,875; Apr. 29.
Moody, Julius C., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Cooling-fluid-control valve. 1,756,566; Apr. 29.
Moore, Edgar D., Cleveland, assignor to The Ohio Brass Company, Mansfield, Ohio. Circuit breaker. 1,756,656; Apr. 29.
Moore Fabric Company. (See Moore, John V., assignor.)
Moore, George W., Long Beach, Calif., assignor to R. E. Moore, Piedmont, Calif. Making weldless elevator links. 1,756,376; Apr. 29.
Moore, John V., assignor to Moore Fabric Company, Pawtucket, R. I. Tie liner and making the same. 1,756,901; Apr. 29.
Moore, Matthew S. (See Black, William C., assignor.)
Moore, R. E. (See Moore, George W., assignor.)
Moore, Thomas J., Lake Ronkonkoma, assignor to S. E. Kimball, New York, N. Y. Attachment for suction cleaners. 1,756,519; Apr. 29.
Morgan Engineering Company, The. (See Wackerly, Harry A., assignor.)
Morgan, Philip. (See Holden, A. P., and Morgan.)
Morgan & Wright. (See Abbott, Adrian O., jr., assignor.)
Morgan & Wright. (See Sawyer, William K., assignor.)
Morris, Albert W., Drexel Hills, and S. Price Wetherill, jr., Haverford, assignors to Wetherill-Morris Engineering Company, Philadelphia, Pa. Attachment for casting machines. 1,756,602; Apr. 29.
Morris, William L., Chicago, Ill., assignor to Bendix Aviation Corporation, New York, N. Y. Grease feeder. 1,756,657; Apr. 29.
Morrison Machine Products, Inc. (See O'Connell, James R., assignor.)
Morton, Allen W., assignor to The American Hammered Piston Ring Company, Baltimore, Md. Piston ring. 1,756,905; Apr. 29.
Moser, Geo., Leather Co. (See Siebodnik, Coleman, assignor.)
Moss, Leroy D., Beloit, Kans. Aeroplane. 1,756,469; Apr. 29.
Moto Meter Gauge & Equipment Corporation. (See Cheney, Moses E., assignor.)
Moto Meter Gauge & Equipment Corporation. (See Schupp, Alfred B., assignor.)
Mount, William D. (See Munro, William C., assignor.)
Müller, Konrad. (See Döring, and Müller.)
Multiple Valve and Manufacturing Company. (See Aufuldish, John B., assignor.)
Mummert, Calvin J. (See Rodler, Hilmer F., assignor.)
Munro, William C., Montreal, Quebec, Canada, assignor to W. D. Mount, Lynchburg, Va. Continuous sulphate process. 1,756,432; Apr. 29.
Munson, John M. (See Becker, L. A., and Munson.)
Myers, Harry J., Central Falls, R. I. Loom temple. 1,756,520; Apr. 29.
Nason, R. N. & Co. (See Tight, Dexter J., assignor.)
National Aniline & Chemical Co. (See Cotton, William J., assignor.)
National Cash Register Company, The. (See Fuller, Frederick L., assignor.)
National Cash Register Company, The. (See Robertson, William H., assignor.)
National Cash Register Company, The. (See Wood, Rodney J., assignor.)
National Casket Company. (See Falck, Joseph E., assignor.)
National Cedarchex Corporation. (See Winchester, Carey C., assignor.)
National Fireworks, Inc. (See Anderson, Robert J., assignor.)
National Pepsi-Cola Corporation. (See Thompson, Paul B., assignor.)
National Pneumatic Company. (See Rowntree, Harold, assignor.)
National Supply Company, The. (See Archer, Merton T., assignor.)
Neal, Harry W., assignor to Hall-Neal Furnace Company, Indianapolis, Ind. Furnace-grate-bar construction. 1,756,697; Apr. 29.
Neebe, Lawrence L., Woodbury, N. J. Support for locomotive air pumps, etc. Re17,652; Apr. 29.
Nelson, Bert J. (See Coles, W. H., and Nelson.)
Neuberth, Franklin G., assignor to The S. O. and C. Company, Ansonia, Conn. Eyelet. 1,756,256; Apr. 29.
Neuberth, Franklin G., assignor to The S. O. and C. Company, Ansonia, Conn. Manufacturing fasteners. 1,756,257; Apr. 29.
Neuenfelt, Mary C., Detroit, Mich. Bearing box and lining therefor. 1,756,095; Apr. 29.
New Process Multi-Castings Company. (See Wood, John R., assignor.)
Nightingale, Robert G. (See Armington, G. E., and Nightingale.)
Niles, Eliot W., Bloomfield, N. J., and W. H. Edwards, Bayside, N. Y., assignors to American Telephone and Telegraph Company. Electrical delay circuit arrangement. 1,756,097; Apr. 29.
Nischke, Henry South Milwaukee, assignor of one-half to A. Hartmann, Wescott, Wis. Chain connecter. 1,756,521; Apr. 29.
Nishinaka, Hiroshi, Stockton, Calif. Oil can for pruning shears. 1,756,129; Apr. 29.
Noble, John A., sr. (See Gray, H. D., Auxter, and Noble.)
Noble, Warren, Detroit, Mich. Exhaust valve. 1,756,796; Apr. 29.
Nolte, Elmer, assignor to Rawlings Manufacturing Company, St. Louis, Mo. Fielder's glove. 1,756,877; Apr. 29.
Noma Electric Corporation. (See Block, Joseph, assignor.)
Nordan, Monte E., St. Louis, Mo. Heating device. 1,756,033; Apr. 29.
Nordstrom, Linnie G., assignor of one-third to E. L. Stephenson, Galva, Ill. Pump jack. 1,756,098; Apr. 29.
Norin, Carl E., Jersey City, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,756,433; Apr. 29.
North, Edwin W. (See Aldeen, G. W., and North.)
Northwest Engineering Corporation. (See Burke, Paul, assignor.)
Noske, Rudolf, San Francisco, Calif. Gun-sight mounting. 1,756,603; Apr. 29.

Novelli, Francesco, Pescina, Italy. Method of and apparatus for burning solid fuel. 1,756,096; Apr. 29.
Nullmeyer, Frank H., Struthers, Ohio. Rod or wire drawing block. 1,756,206; Apr. 29.
Oberheim, Albert, deceased, Charlotte, N. C.; M. Oberheim, executrix. Heat control for bake ovens. 1,756,604; Apr. 29.
Oberheim, Mabel, executrix. (See Oberheim, Albert.)
Oberhuber, William F., East Lansdowne, Pa. Apparatus for cleaning condenser tubes. 1,756,378; Apr. 29.
Oberkrom, William A., et al. (See Johnson, Willard M., assignor.)
O'Connell, James R., assignor to Morrison Machine Products, Inc., Elmira, N. Y. Feed finger for machine tools. 1,756,258; Apr. 29.
Oden, John M., Brooklyn, N. Y. Safety gasoline hose. 1,756,698; Apr. 29.
Oechsle, Joseph S., assignor to Metalweld Service Corporation, Philadelphia, Pa. Circulating pump for power units. 1,756,207; Apr. 29.
Ogle Construction Company. (See Powell, Max, assignor.)
Ohan, Arakel M., assignor to Parker Wire Goods Company, Worcester, Mass. Mechanism for feeding screw-eyes. 1,756,658; Apr. 29.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
Ohio Brass Company, The. (See Moore, Edgar D., assignor.)
Ohio Brass Company, The. (See Wolff, Daniel R., assignor.)
Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Oscillation generator. 1,756,130; Apr. 29.
Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. High-frequency oscillation generator. 1,756,131; Apr. 29.
Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. High-frequency oscillation generator. 1,756,132; Apr. 29.
Olds, Ambrose D., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Percolator. Des. 81,063; Apr. 29.
Olds, Ambrose D., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Percolator. Des. 81,064; Apr. 29.
Olds, Ambrose D., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Waffle iron. Des. 81,065; Apr. 29.
Olds, Ambrose D., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Waffle iron. Des. 81,066; Apr. 29.
Oldson, John A., assignor to Wyman-Gordon Company, Worcester, Mass. Counterbalanced crank shaft. 1,756,659; Apr. 29.
Olson, Gottfrid, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,757; Apr. 29.
Olson, John B., and R. R. Young, assignors to James Manufacturing Company, Fort Atkinson, Wis. Heater for poultry houses and analogous purposes. 1,756,379; Apr. 29.
Orcutt, Arthur H., and J. W. Snarry, assignors to The Gear Grinding Company Limited, Birmingham, England. Machine for grinding or cutting toothed gear wheels or other analogous objects. 1,756,876; Apr. 29.
Orem, Frederick S., Baltimore, Md. Air cleaner. 1,756,758; Apr. 29.
Osborn, George S., Hartford, Conn. Rubber mat. 1,756,380; Apr. 29.
Osborn, Zoe S., Colorado Springs, Colo. Store front. 1,756,099; Apr. 29.
Oswego Board Corporation. (See Wiener, John A., assignor.)
Otis Elevator Company. (See Dunn, Edward L., assignor.)
Overholt, Edwin E. (See Madden, John F., and Overholt.)
Owen Automatic Spring Machinery Company, The. (See Owen, David T., assignor.)
Owen, David T., assignor to The Owen Automatic Spring Machinery Company, Cleveland, Ohio. Machine for fabricating spring structures. 1,756,434; Apr. 29.
Owen, Lake E. (See Van Epp, Paul N., assignor.)
Owens, John C., East Liverpool, Ohio. Game. 1,756,299; Apr. 29.
Oxweld Acetylene Company. (See Hunt, W. F., Mabbs, and Rowland, assignors.)
Oxweld Acetylene Company. (See Mabbs, John K., assignor.)
Oxweld Acetylene Company. (See Mabbs, J. K., and Stelling, assignors.)
P & M Company, The. (See Shepherd, Charles B., assignor.)
Page-Madden Company. (See Madden, J. F., and Overholt, assignors.)
Page-Wood, Gerald, Evanston, Ill., assignor to The Hoover Company. Casing for a suction cleaner or similar article. Des. 81,067; Apr. 29.
Pahl, August, Berlin-Wilmersdorf, Germany. Apparatus for the production of molten liquid, coats of enamel, glass, and the like by spraying upon metal, stone, or other surfaces or bodies. 1,756,381; Apr. 29.
Paiste, Henry T., Philadelphia, Pa., assignor, by mesne assignments, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electric fixture. 1,756,929; Apr. 29.
Paley, Lewis A., Grand Island, N. Y., assignor to du Pont Rayon Company, Inc. Method of and apparatus for preparing rayon. 1,756,435; Apr. 29.
Palm, John V. O. (See Hopkins, B. F., and Palm.)
Palme, Gustav, Strehla-on-the-Elbe, Germany. Glue product. 1,756,382; Apr. 29.
Palone, Vincenzo, Utica, N. Y. Oil measuring and dispensing can. 1,756,470; Apr. 29.
Paralock Company, The. (See Van Valkenburg, H. L., and Miller, assignors.)
Paris, Auguste J., jr., Bradford, Pa. Producing lampblack. 1,756,877; Apr. 29.
Parker, Ernest G., New Bedford, Mass. Relief valve. 1,756,133; Apr. 29.
Parker Wire Goods Company. (See Ohan, Arakel M., assignor.)
Parker Wire Goods Company. (See Priest, Dwight E., assignor.)
Parkes, William N., Brooklyn, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rotary-hook sewing machine. 1,756,699; Apr. 29.
Patent Button Company, The. (See White, Franklin R., assignor.)
Patten, Raymond E., Oak Park, Ill., assignor to Edison Electric Appliance Company. Combined clock frame and face. Des. 81,068; Apr. 29.
Patterson, Arthur W., jr., Roselle, N. J. Water-tube boiler. 1,756,164; Apr. 29.
Patterson, Lucille S., Chicago, Ill. Cushion. Des. 81,069; Apr. 29.
Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Can-ejecting mechanism. 1,756,522; Apr. 29.
Payne, Clarence O., Stamford, Conn., assignor of one-fourth to J. G. Hall, New York, N. Y. Electromagnetic clutch. 1,756,907; Apr. 29.
Pearson, Kenneth N., Netheravon, Shepperton, England. Aerofoil. 1,756,300; Apr. 29.
Pearson, Ragnar, Chicago, Ill. Check valve. 1,756,567; Apr. 29.
Pearson, Victor I., Hecla, S. Dak. Antenna. 1,756,436; Apr. 29.
Pech, Jacques L., Montpellier, France. Reflector for rays emitted by a luminous source. 1,756,801; Apr. 29.
Peelen, Mattie, Sanborn, Iowa. Teaching device. 1,756,208; Apr. 29.
Peerless Pump Company. (See Wintroath, John A., assignor.)
Peiler, Karl E., West Hartford, assignor to Hartford Empire Company, Hartford, Conn. Apparatus for delivering molten glass. 1,756,492; Apr. 29.
Peiler, Karl E., West Hartford, assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn. Feeding molten glass. 1,756,493; Apr. 29.
Pelzer, Harry L. (See Herthel, E. C., and Pelzer.)
Pelzer, Harry L. (See Herthel, E. C., Pelzer, and Stafford.)
Pendery, Edward, assignor to The Higgin Manufacturing Company, Newport, Ky. Glass-fastening device. 1,756,302; Apr. 29.
Pennington, Harry R., Chicago, Ill., assignor to Hollup Corporation. Metallic welding rod. 1,756,568; Apr. 29.
Perks, George W., assignor to The George W. Perks Company, Akron, Ohio. Mounting for abrasive wheels or the like. 1,756,259; Apr. 29.
Perks, George W., Company, The. (See Perks, George W., assignor.)
Permutit Company, The. (See Behrman, Abraham S., assignor.)
Perry, Stanley, assignor to Automatic Burner Corporation, Chicago, Ill. Thermostatic device. 1,756,660; Apr. 29.
Peterson, Harry F., Baytown, and C. P. Bird, Bayport, assignors, by mesne assignments, to Anderson Foundry Company, Bayport, Minn. Sash pulley. 1,756,759; Apr. 29.
Petrie, Edward R., New York, N. Y. Gripping device for oil cans and the like. 1,756,165; Apr. 29.
Petroleum Sand Products Corporation. (See Schwarz, Alfred, assignor.)
Petz, William B., Plymouth, Mich. Swimming tube. 1,756,383; Apr. 29.
Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Artificial minnow. 1,756,260; Apr. 29.
Pfouts, Leroy S., assignor to The H. H. Miller Industries Company, Canton, Ohio. Freezing apparatus. 1,756,261; Apr. 29.
Phelps, Robert W., assignor, by mesne assignments, to Julia King's Candy Corporation, Chicago, Ill. Combined vending and display stand. Des. 81,070; Apr. 29.
Phillips, Henry H., Judith Gap, Mont. Landing gear for aeroplanes. 1,756,209; Apr. 29.
Phillips, Ross M. G., New Haven, Conn. Sled. 1,756,303; Apr. 29.
Piccolo, Joseph, and J. W. Villano, Brooklyn, N. Y. Confection-coating apparatus. 1,756,471; Apr. 29.
Pickard, Henry A., Chicago, Ill. Border strip for service ware. Des. 81,071; Apr. 29.
Pineles, Solomon M. (See Mitchell, L. E., Connors, and Pineles.)
Pineles, Solomon M., assignor to H. B. Staver, Chicago, Ill. Dog-racing apparatus. 1,756,066; Apr. 29.

Pittsburgh Clay Pot Company. (See Emminger, Thomas F., assignor.)
Pixley, Milton A., et al. (See Howard, Charles O., assignor.)
Pleasant, Herman E., Mansfield, Ohio, assignor to Westinghouse Electric and Manufacturing Company. Refrigerator cabinet. Des. 81,072; Apr. 29.
Plourde, Joseph A., and A. J. Tetreault, Chicopee Falls, Mass. Combined rim tool and tire carrier. 1,756,304; Apr. 29.
Plutte, Frederick. (See Watson, A. E., and Plutte.)
Pochin, Frank H., Leicester, England. Heel-attaching machine. 1,756,134; Apr. 29.
Poole, Arthur F., Ithaca, N. Y., assignor to Poole Manufacturing Co., Inc. Clock and similar indicator. 1,756,437; Apr. 29.
Poole, Arthur F., Pelham Manor, N. Y., assignor to Poole Manufacturing Company, Inc., Westport, Conn. Electric clock. 1,756,472; Apr. 29.
Poole Manufacturing Company. (See Poole, Arthur F., assignor.)
Porter, George C. (See Stoller, H. M., and Porter.)
Porter, Madison R., New York, N. Y. Grate for stoves and the like. 1,756,384; Apr. 29.
Ports, Louise R., Troutdale, Oreg. Moving display sign. 1,756,523; Apr. 29.
Potter, John E., Pittsfield, Mass., assignor to General Electric Company. Electric-discharge device. 1,756,878; Apr. 29.
Powell, Max, Chicago, Ill., assignor to Ogle Construction Company. Safety cut-off for coal chutes. 1,756,569; Apr. 29.
Preece, Archie R., assignor of one-half to W. H. Banerschlay, San Marcos, Tex. Flywheel and self-oiling wrist pin. 1,756,661; Apr. 29.
Price, Charles S., Bethlehem, assignor to L. F. Grammes & Sons, Inc., Allentown, Pa. Adhesive-applying machine. 1,756,833; Apr. 29.
Priest, Dwight E., assignor to Parker Wire Goods Company, Worcester, Mass. Mechanism for collecting and feeding screw eyes. 1,756,605; Apr. 29.
Prillaman, Ella F., et al. (See Culver, Lagar R., assignor.)
Prillaman, John W., et al. (See Culver, Lagar R., assignor.)
Producto Machine Company, The. (See Marsilius, Newman M., assignor.)
Progressive Corrugated Machinery Co. (See Schroeder, L. H., and Wagner, assignors.)
Project Holding Corporation. (See Bauer, William J., assignor.)
Prosperity Company, The. (See Yanchenko, Basil J., assignor.)
Prudden, Theodore M. (See Benson, William E., assignor.)
Pulsifer, George H., Haverhill, Mass. Shoe buckle. Des. 81,073; Apr. 29.
Quaker Oats Company, The. (See Leuck, Gerald J., assignor.)
Quaker Oats Company. (See Trickey, John P., assignor.)
Racz, Ernest, assignor to Burroughs Adding Machine Company, Detroit, Mich. Chair. 1,756,210; Apr. 29.
Radio Corporation of America. (See Loewe, Siegmund, assignor.)
Rahm, Robert C., Wyomissing, assignor to Berks Engineering Company, Inc., Reading, Pa. Dyeing process and mechanism. 1,756,067; Apr. 29.
Rail Joint Company, The. (See Armstrong, Victor C., assignor.)
Rail Joint Company, The. (See Braine, Daniel L., assignor.)
Ramseier, Edward F., Edberg, Alberta, Canada. Hitch for agricultural implements. 1,756,305; Apr. 29.
Ramsey, George, Brooklyn, N. Y. Vacuum tank. 1,756,034; Apr. 29.
Rand, James H., North Tonawanda, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index device. 1,756,880; Apr. 29.
Rand, James H., jr., Tonawanda, and L. C. Broecker, Buffalo, assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or record device. 1,756,879; Apr. 29.
Rau, Henry V., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Pronged fastener. 1,756,385; Apr. 29.
Rauber, John N., Rochester, N. Y. Form and mold. 1,756,473; Apr. 29.
Rawlings Manufacturing Company. (See Ingram, William A., assignor.)
Rawlings Manufacturing Company. (See Nolte, Elmer, assignor.)
Rawlings, William F. (See Linn, Herman C., assignor.)
Rawson, Ralph H., Portland, Oreg. Recovery of surplus preservatives in treatment of timber. 1,756,797; Apr. 29.
Raymond, Howard A., Somerville, assignor to American Rubber Company, East Cambridge, Mass. Rubber footwear article and method of making. 1,756,474; Apr. 29.
Raytheon, Inc. (See Bush, Vannevar, assignor.)
Ready, William A., Brookline, Mass. Electric-circuit tuning device. 1,756,570; Apr. 29.
Reddaway, F., and Company. (See Gardiner, William C., assignor.)
Reece, Joseph A., assignor to Libbey-Owens Glass Company, Toledo, Ohio. Heat-absorbing means for sheet-glass apparatus. 1,756,798; Apr. 29.
Reed, William P., Chicago, Ill. Method of and apparatus for cooking candy. 1,756,662; Apr. 29.
Reeves Manufacturing Company, The. (See Curtis, Rowland J., assignor.)
Reeves Manufacturing Company, The. (See Hunker, Martin L., assignor.)
Reeves, William A. (See Tucker, O. M., and Reeves.)
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Combined filling and warp stop motion for looms. 1,756,606; Apr. 29.
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion. 1,756,607; Apr. 29.
Reich, Otto, Vienna, Austria. Ash tray or smoker's stand. 1,756,760; Apr. 29.
Reid, Allan E., Boston, assignor to Reid Piston Company, Brookline, Mass. Piston and connecting rod. 1,756,211; Apr. 29.
Reid, Allan E., Boston, assignor to Reid Piston Company, Brookline, Mass. Piston and connecting rod. 1,756,761; Apr. 29.
Reid, Earl C. (See Jeffries, Charles W., assignor.)
Reid Piston Company. (See Reid, Allan E., assignor.)
Reider, Maurice J., Canton, Ohio. Machine for use as mechanical toys and other purposes. 1,756,608; Apr. 29.
Reimann, Erich, Charlottenburg, Germany, assignor to General Electric Company. System of speed control for induction motors. 1,756,925; Apr. 29.
Reinz, Hugo, Berlin-Spandau, Germany. Packing material. 1,756,881; Apr. 29.
Relyea, Walter I., Schenectady, N. Y., assignor to General Electric Company. Filament-tensioning means. 1,756,882; Apr. 29.
Remington Rand Inc. (See Dawson, George H., assignor.)
Remington Rand Inc. (See Day, William H., assignor.)
Remington Rand Inc. (See Hutchings, LeRoi E., assignor.)
Remington Rand Inc. (See Rand, James H., assignor.)
Remington Rand Inc. (See Rand, J. H., jr., and Broecker, assignors.)
Reserve Holding Company. (See Saunders, Norman H., assignor.)
Reynolds, Boyd, McKeesport, Pa. Safety attachment for vehicle wheels. 1,756,212; Apr. 29.
Reynolds Spring Company. (See Wisner, Abram C., assignor.)
Rich, Edward E., Chicago, Ill. Vehicle signal. Des. 81,074; Apr. 29.
Richards, Julius H., Torrington, Conn., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,756,068; Apr. 29.
Richardson, Charles M., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method of and apparatus for assembling shoe parts. 1,756,438; Apr. 29.
Richter, Erich, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing colored nitrocellulose varnishes. 1,756,100; Apr. 29.
Richterkessing, Frank H., assignor to Cheatham Electric Switching Device Company, Louisville, Ky. Electrically-operated track switch. 1,756,700; Apr. 29.
Riesner, Michael, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Unloading mechanism for compressors. 1,756,701; Apr. 29.
Riley, Charles T., assignor of one-fourth to J. C. Lay, one-fourth to E. C. Clark, and one-fourth to A. H. Cronk, Rosiclare, Ill. Composition. 1,756,762; Apr. 29.
Robertson, Edwin A., Lake Wawasee, assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Auxiliary valve-closing means. 1,756,834; Apr. 29.
Robertson, William H., assignor to The National Cash Register Company, Dayton, Ohio. Autographic register. 1,756,386; Apr. 29.
Robidoue, Samuel F., assignor to Coyne, Robidoue & Co., Providence, R. I. Chain. 1,756,101; Apr. 29.
Robinson, Franklin, Paterson, N. J. Shuttle spindle pivot. 1,756,494; Apr. 29.
Robinson, Leslie H., Chiswick, London, England. Releasing gear for use with lowering apparatus. 1,756,213; Apr. 29.
Rodler, Hilmer F., assignor to C. J. Mummert, West New York, N. J. Ignition device for oil burners. 1,756,306; Apr. 29.
Rogers, Harrison W., Inc. (See Ebeling, Charles W., assignor.)
Ronk, George T., Cedar Rapids, Iowa. Machine frame. 1,756,387; Apr. 29.
Rose, Reed P., Jackson Heights, and H. E. Cude, Floral Park, assignors to General Rubber Company, New York, N. Y. Production of combinations of rubber and paper and product obtained thereby. 1,756,035; Apr. 29.
Rosekrans, Wilfred M., Bloomfield, N. J., assignor to American Telephone and Telegraph Company. Telephone system. 1,756,102; Apr. 29.
Rosenberg, Leo. (See Kaplan, Benjamin, and Rosenberg.)
Rosenfield, Joseph L., Alameda, Calif. Nut-meat product and producing same. 1,756,702; Apr. 29.
Rosenthal, Samuel J. (See Gilson, Bert D., assignor.)

Rousseaux, Henri. (See Blaudeau, J. B., Limousin, Rousseaux, and Dumont.)
Rowe, Clell E. (See Knight, L. A., and Rowe.)
Rowe, William H., Los Angeles, Calif. Coin-controlled mechanism. 1,756,388; Apr. 29.
Rowland, Walter B. (See Hunt, W. F., Mabbs, and Rowland.)
Rowley, Archie, Havre, Mont. Weeder. 1,756,495; Apr. 29.
Rowntree, Harold, Scarsdale, assignor to National Pneumatic Company, New York, N. Y. Pneumatic motor. 1,756,307; Apr. 29.
Roy, William, assignor to Lord & Burnham Company, Irvington on Hudson, N. Y. Sash position-indicating device. 1,756,912; Apr. 29.
Rubber Latex Research Corporation. (See Wescott, William B., assignor.)
Rubber Service Laboratories Company, The. (See Scott, Winfield, assignor.)
Rubber Service Laboratories Company. (See Ter Horst, William P., assignor.)
Rubber Service Laboratories Co., The. (See Vignos, James C., assignor.)
Ruggiero, Guiseppe, Port Colborne, Ontario, Canada, and J. De Cesare, Roseto, Pa. Automatic gas-stove lighter. 1,756,763; Apr. 29.
Rumford Chemical Works. (See Edwards, Robert S., assignor.)
Ruskin, Joseph A., Chicago, Ill. Novelty container. 1,756,135; Apr. 29.
Russell, R. K., Warren, Pa. Article support. 1,756,883; Apr. 29.
Ryther, George D., Carthage, N. Y. Sectional drive or conveyer chain. 1,756,136; Apr. 29.
S. O. and C. Company, The. (See Neuberth, Franklin G., assignor.)
Sabol, John, Brooklyn, N. Y. Smoke consumer. 1,756,663; Apr. 29.
Sackett, A. J., and Sons Company, The. (See Sackett, Augustus J., assignor.)
Sackett, Augustus J., Anne Arundel County, Md., assignor to The A. J. Sackett and Sons Company. Fertilizer-screen vibrator. 1,756,835; Apr. 29.
Sadler, Frederick W., assignor of one-fourth to B. E. Turney, Oklahoma City, Okla. Casing cover and tool holder for wells. 1,756,799; Apr. 29.
Saharoff, Alexander V., Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Unloading apparatus for variable-volume compressors. 1,756,137; Apr. 29.
Sahlstrom, Carl E., Chicago, Ill. Pocket for garments. 1,756,138; Apr. 29.
Salvati, Dominick, Brooklyn, and H. Le Quornik, Richmond Hill, N. Y.; said Le Quornik, assignor to said Salvati. Smoker's article. 1,756,836; Apr. 29.
Samstag & Hilder Bros., Inc. (See Samstag, Louis A., assignor.)
Samstag, Louis A., assignor to Samstag & Hilder Bros., Inc., New York, N. Y. Hand bag. 1,756,764; Apr. 29.
Santiago, James J., assignor to J. Grant, Los Angeles, Calif. Expansive reamer and drill. 1,756,524; Apr. 29.
Sargent & Company. (See Carlin, Joseph, assignor.)
Sasaki, Masaichi, Lihue, Hawaii. Cane cutter. 1,756,664; Apr. 29.
Saunders, Norman H., Homewood, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone trunking system. 1,756,214; Apr. 29.
Sawyer, William K., assignor to Morgan & Wright, Detroit, Mich. Breaker fabric and preparing the same. 1,756,069; Apr. 29.
Scavone, Eugene, et al. (See Trippeda, C. S., and Dichiaro, assignors.)
Schaeffer, Charles, assignor to Société Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Piston for internal-combustion engines. 1,756,884; Apr. 29.
Schafer, John V., assignor to Bronson Reel Company, Bronson, Mich. Card holder. 1,756,885; Apr. 29.
Schellentrager, Eugene W., Shaker Heights, assignor to The Atlas Bolt & Screw Co., Cleveland, Ohio. Battery box. 1,756,703; Apr. 29.
Schick, Jacob, East Orange, N. J., assignor to Magazine Repeating Razor Company. Safety razor. 1,756,439; Apr. 29.
Schjohn, Eric O., Birmingham, assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich. Frame construction. 1,756,913; Apr. 29.
Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for printing presses. 1,756,308; Apr. 29.
Schmidt, Maximilian P., and W. Krieger, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Light-sensitive materials and making them. 1,756,400; Apr. 29.
Schneider, Christian, Chicago, Ill. Sign-supporting frame. 1,756,389; Apr. 29.
Schneider, Peter F., assignor to Transit Mixers, Inc., San Francisco, Calif. Concrete mixer. 1,756,390; Apr. 29.
Schneider, William H., Milwaukee, Wis. Fan. 1,756,215; Apr. 29.
Schroeder, Leo, Le Mars, Iowa. Harness. 1,756,886; Apr. 29.
Schroeder, Louis H., Woodhaven, and J. Wagner, Brooklyn, N. Y., assignors to Progressive Corrugated Machinery Co., Inc., Brooklyn, N. Y. Rotary box-blanking machine. Re17,653; Apr. 29.
Schupp, Alfred B., Richmond Hill, assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y. Motor-heat indicator. 1,756,070; Apr. 29.
Schutte and Koerting Company. (See von Brockdorff, Rudolf, assignor.)
Schwartz, Morris A., Los Angeles, Calif. Distortion motor. 1,756,800; Apr. 29.
Schwarz, Alfred Montclair, N. J., assignor to Petroleum Sand Products Corporation. Oil-cracking process. 1,756,887; Apr. 29.
Schweiker, Roy W., Lansdale, Pa. Lighting fixture. 1,756,309; Apr. 29.
Scott, Winfield, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Vulcanizing rubber. 1,756,310; Apr. 29.
Scovel, John C., jr., assignor to The Creamery Package Mfg. Company, Chicago, Ill. Refrigerant-compressor-control manifold. 1,756,571; Apr. 29.
Scovill Manufacturing Company. (See Cook, Clarence P., assignor.)
Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
Seaman, Charles, Hollis, and G. Braf, Ozone Park, N. Y.; said Braf assignor to said Seaman. Sewing machine. 1,756,036; Apr. 29.
Sedlmeir, Michael, Mulheim-Ruhr, Germany, assignor to Holxwarth Gas Turbine Co., San Francisco, Calif. Nozzle-valve construction for combustion turbines. 1,756,139; Apr. 29.
Seeger, Edwin W., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis. Motor-control system. 1,756,572; Apr. 29.
Seeley, William H., assignor to Brown & Haley, Tacoma Wash. Identification and price tag. 1,756,216; Apr. 29.
Selby, Eugene O., Schenectady, N. Y., assignor to General Electric Company. Conductive screen and shield. 1,756,888; Apr. 29.
Selectograph Company. (See Golinick, P. A., and Harred, assignors.)
Selector Corporation. (See Wurzbach, H. E., and Wadsworth, assignors.)
Semon, Waldo L., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cleaning metals. 1,756,311; Apr. 29.
Seufert, Friedrich, Munich, Germany, assignor of one-half to H. Seufert, Brooklyn, N. Y. Cinema or analogous projecting apparatus. 1,756,440; Apr. 29.
Seufert, Hermann. (See Seufert, Friedrich, assignor.)
Shallock, Edward W., assignor to American Ore Reclamation Company, Chicago, Ill. Grate and pallet structure. 1,756,037; Apr. 29.
Shank, George H., et al. (See Loehr, Harry M., assignor.)
Sharpe, Ira G., Liberty Center, Ohio. Machine for coring cabbages or the like. 1,756,262; Apr. 29.
Shelton, William G., St. Louis, Mo. Hair-waving equipment. 1,756,837; Apr. 29.
Shepherd, Charles B., New York, N. Y., assignor to The P & M Company, Chicago, Ill. Rail anchor. 1,756,071; Apr. 29.
Shields, Lowell W., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Suspender buckle or the like. Des. 81,075; Apr. 29.
Shoemaker, Alvin H., Seattle, Wash. Pneumatic-tire and rim construction. 1,756,665; Apr. 29.
Short, Charles R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Brake. 1,756,914; Apr. 29.
Short, Charles R., assignor to General Motors Research Corporation, Detroit, Mich. Inertia-force balancer with single eccentric weight. 1,756,915; Apr. 29.
Shwayder, Benjamin H., assignor to Shwayder Trunk & Mfg. Co., Denver, Colo. Strap for suitcases, etc. 1,756,038; Apr. 29.
Shwayder Trunk & Mfg. Co. (See Shwayder, Benjamin H., assignor.)
Siebring, Claude, George, Iowa. Oil-burning stove. 1,756,391; Apr. 29.
Siemens & Halske Aktiengesellschaft. (See Döring, F., and Müller, assignors.)
Sinclair Refining Company. (See Herthel, E. C., and Pelzer, assignors.)
Sinclair Refining Company. (See Herthel, E. C., Pelzer, and Stafford, assignors.)
Sinclair Refining Company. (See Vobach, A. C., and Herthel, assignors.)
Singer Manufacturing Company, The. (See Parkes, William N., assignor.)
Sipp Eastwood Corporation. (See Sipp, Grant, assignor.)
Sipp, Grant, assignor to Sipp Eastwood Corporation, Paterson, N. J. Warping machine. 1,756,217; Apr. 29.
Skerritt, George H. (See Jarrett, C. W., and Skerritt.)
Skinner Irrigation Company, The. (See Coles, W. H., and Nelson, assignors.)
Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Focusing device. 1,756,140; Apr. 29.
Sklerov, Benjamin. (See Meisel, G. J., and Sklerov.)

Slade, Harold E., Glen Ridge, assignor to Beaver Machine & Tool Co. Inc., Newark, N. J. Electrical outlet device. 1,756,704; Apr. 29.
Slebodnik, Coleman, assignor to Geo. Moser Leather Co., New Albany, Ind. Hide-stretching device. 1,756,103; Apr. 29.
Sloan, William E., Chicago, Ill. Flush valve. 1,756,263; Apr. 29.
Smith, Charles F., Quincy, assignor to Brake Synchrometer Co., Boston, Mass. Brake-testing apparatus. 1,756,666; Apr. 29.
Smith, Milton W., Caldwell, N. J. Grasping device. 1,756,441; Apr. 29.
Smith, Roscoe J., East Orange, assignor to Edison Storage Battery Company, West Orange, N. J. Storage-battery cell and the operation thereof. 1,756,072; Apr. 29.
Smith, Russell T., assignor to The Crosley Radio Corporation, Cincinnati, Ohio. Water cooler. 1,756,218; Apr. 29.
Smith, Walter E., Warwick Downs, assignor to C. G. King & Co. Inc., Providence, R. I. Shoe buckle. Des. 81,076; Apr. 29.
Smith, Walter E., Warwick Downs, assignor to C. G. King & Co., Inc., Providence, R. I. Shoe buckle. Des. 81,077; Apr. 29.
Smith, Walter F., jr., New York, and T. H. Crabtree, New Brighton, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voice screen. 1,756,705; Apr. 29.
Smith, Walter H., Toronto, Ontario, assignor to Business Systems Limited, Toronto, Canada. Zigzag-pile-forming machine. 1,756,392; Apr. 29.
Snarry, John W. (See Orcutt, A. H., and Snarry.)
Sneed, John, Ferndale, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Brake assembly. 1,756,812; Apr. 29.
Snell, Foster D., Brooklyn, N. Y. Composition blackboard and making same. 1,756,393; Apr. 29.
Snow, Norman L., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Boiler cleaner. 1,756,394; Apr. 29.
Société Anonyme des Anciens Etablissements Panhard & Levassor. (See Schaeffer, Charles, assignor.)
Soemer, John O., Newark, N. J. Panic exit lock. 1,756,667; Apr. 29.
Spangler, Archie L., Los Angeles, Calif. Gas heater. Des. 81,078; Apr. 29.
Spellmeyer, Frederick W., East Orange, N. J. Marking device. 1,756,141; Apr. 29.
Spence, Robert E. L., jr., Miami, Fla. Duplicating machine. 1,756,395; Apr. 29.
Spencer Chain Stores, Inc. (See Daly, John J., assignor.)
Spicer, Clarence W., Plainfield, N. J. Fence material and making the same. 1,756,396; Apr. 29.
Spiker, William C., Atlanta, Ga. Golf putter. 1,756,219; Apr. 29.
Spohn, John H., jr., San Francisco, Calif. Bottle for containing fluids. 1,756,397; Apr. 29.
Sprankle, George D., Tipton, Pa. Steam-pipe connecter. 1,756,668; Apr. 29.
Spun Steel Corporation, The. (See Harrison, Frank G., assignor.)
Staake, Spencer O., assignor of one-half to R. W. Hutchens, Eau Claire, Wis. Rubber ice-cream shipper. 1,756,039; Apr. 29.
Stacey, Alfred E., jr. (See Gamble, W. J., Stacey, and Thornton.)
Stackpole, Leroy E., Sanford, Me. Collapsible book holder. 1,756,220; Apr. 29.
Stafford, James G. (See Herthel, E. C., Pelzer, and Stafford.)
Stafford, Rogers T. (See Ballou, F. A., and Stafford.)
Staley, Harry E., Rochester, N. Y. Garment hanger and stretcher. 1,756,221; Apr. 29.
Standard Oil Development Company. (See Link, Louis, assignor.)
Standard Oil Development Company. (See Loomis, Nathaniel E., assignor.)
Standard Radial Blast Corporation. (See Dreisbach, Charles A., assignor.)
Standifer, Morris E. (See Allen, W. H., and Standifer.)
Stator Refrigeration, Inc. (See Whitney, Lyman F., assignor.)
Staunton, Le Roy W., assignor of one-half to S. Bourne, New York, N. Y. Sound-reproducing apparatus. 1,756,838; Apr. 29.
Staver, Harry B. (See Mitchell, L. E., Connors, and Pineles, assignors.)
Staver, Harry B. (See Pineles, Solomon M., assignor.)
Staver, Harry B. (See White, John F., assignor.)
Steensen, Sverre J., Oslo, Norway. Float valve. 1,756,398; Apr. 29.
Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,765; Apr. 29.
Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,766; Apr. 29.
Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Individual towel cabinet. 1,756,767; Apr. 29.
Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,840; Apr. 29.
Steiner, Frank M., Minneapolis, Minn., and W. S. Graves, Kansas City, Mo., assignors to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,839; Apr. 29.
Steiner, George A., Salt Lake City, Utah. Towel cabinet. 1,756,928; Apr. 29.
Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,926; Apr. 29.
Steiner, George A., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,756,927; Apr. 29.
Steiner Sales Company. (See Olson, Gottfrid, assignor.)
Steiner Sales Company. (See Steiner, Frank G., assignor.)
Steiner Sales Company. (See Steiner, F. M., and Graves, assignors.)
Steiner Sales Company. (See Steiner, George A., assignor.)
Stelling, Hermann C. (See Malbs, J. K., and Stelling.)
Stephenson, Edwin L. (See Nordstrom, Linnie G., assignor.)
Stevens, Roger B. (See Weisberg, L., and Stevens.)
Stewart Hartshorn Company. (See Hack, H. W., and Layng, assignors.)
Stewart-Warner Corporation. (See Burton, Charles S., assignor.)
Stewart-Warner Corporation. (See Wheeler, Leonard H., assignor.)
Stimpson, Edwin B., Company. (See Rau, Henry V., assignor.)
Stoller, Hugh M., Mountain Lakes, and G. C. Porter, Midland Park, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regulator system. 1,756,573; Apr. 29.
Stone, Nellie, Willamina, Oreg. Marceling iron. 1,756,104; Apr. 29.
Story, Elliott M., Worcester, Mass. Container-charging ice-cream scoop. 1,756,609; Apr. 29.
Stowell, Jonathan R., Vancouver, British Columbia, Canada. Saw-sharpening device. 1,756,399; Apr. 29.
Stranahan, Samuel A., Flint, assignor to General Motors Corporation, Detroit, Mich. Muffler. 1,756,916; Apr. 29.
Streby, Ray D., assignor to The Timken Roller Bearing Company, Canton, Ohio. Lapping tool. 1,756,014; Apr. 29.
Strufe, Otto, Dwight, Ill. Protector for ice in transit. 1,756,706; Apr. 29.
Stubnitz, Maurice, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Coiled spring. 1,756,669; Apr. 29.
Sundstrand Corporation. (See Sundstrand, Oscar J., assignor.)
Sundstrand Engineering Company. (See Sundstrand, Gustaf D., assignor.)
Sundstrand, Gustaf D., assignor, by mesne assignments, to Sundstrand Engineering Company, Rockford, Ill. Oil-burning apparatus. 1,756,707; Apr. 29.
Sundstrand, Oscar J., Rockford, Ill., assignor to Sundstrand Corporation, Wilmington, Del. Tabulator. 1,756,401; Apr. 29.
Super San Towel Cabinet Company. (See Hails, Edward T., assignor.)
Superheater Company, The. (See Gordon, Charles W., assignor.)
Superior Oil and Gas Separator Company. (See Gray, H. D., Auxter, and Noble, assignors.)
Suter, Philipp, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Cooling arrangement for machine bearings. 1,756,402; Apr. 29.
Swearingen, Clair V., Chattanooga, Tenn. Chlorinator. 1,756,105; Apr. 29.
Swenson, Harold E., Vallejo, Calif. Counterbalanced crane. 1,756,106; Apr. 29.
Swett, Wesley S., Newtonville, assignor to United Candy Company, Boston, Mass. Cherry dropper. 1,756,222; Apr. 29.
Swift, George W., jr., assignor to G. W. Swift, jr., Inc., Bordentown, N. J. Sheet-feeding means. 1,756,073; Apr. 29.
Swift, George W., jr., assignor to G. W. Swift, jr., Inc., Bordentown, N. J. Cutting mechanism. 1,756,228; Apr. 29.
Swift, George W., jr., Inc. (See Swift, George W., jr., assignor.)
Szakács, Louis, Naginey, Pa. Toothbrush and paste holder. 1,756,142; Apr. 29.
Taffe, Leo Thomas, Detroit, Mich. Door fastener. 1,756,313; Apr. 29.
Taft, Benjamin, Flushing, N. Y. Chart. 1,756,040; Apr. 29.
Takamine, Caroline, administratrix. (See Takamine, Jokichi and J., jr., and Fujita.)
Takamine Ferment Company. (See Takamine, Jokichi and J., jr., and Fujita, assignors.)
Takamine, Jokichi, jr. (See Takamine, Jokichi and J., jr., and Fujita.)
Takamine, Jokichi, deceased, Passaic, N. J.; C. Takamine, administratrix, New York, N. Y.; J. Takamine, jr., Clifton, N. J., and N. Fujita, Tokyo, Japan, assignors to Takamine Ferment Company, New York, N. Y. Vitamine product and obtaining the same. 1,756,574; Apr. 29.
Tanigawa, Tomizo, assignor of one-half to F. K. Makino, Honoluiu, Hawaii. Heel pad. 1,756,107; Apr. 29.

Taylor, George W., Wellesley, assignor, by mesne assignments, to H. J. Clark, Watertown, Mass. Roller bearing. 1,756,264; Apr. 29.

Temens, Estafiy, Elizabeth, N. J. Aeroplane boat. 1,756,442; Apr. 29.

Ten Eyck, Christine Z., administratrix. (See Ten Eyck, William B.)

Ten Eyck, William B., deceased; C. Z. Ten Eyck, administratrix, Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Conductor. 1,756,314; Apr. 29.

Tenney, Perry L., Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Four-speed transmission. 1,756,917; Apr. 29.

Ter Horst, William P., Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio. Rubber vulcanization process. 1,756,315; Apr. 29.

Ternstedt Manufacturing Company. (See Flynn, John B., assignor.)

Tetreault, Adelord J. (See Plourde, J. A., and Tetreault.)

Thomas, James M. (See Keenan, William E., assignor.)

Thomas, Leslie J., assignor to V. C. Batchelder, Arlington Heights, Mass. Piston. 1,756,768; Apr. 29.

Thornton, William B. (See Gamble, W. J., Stacey, and Thornton.)

Theodoropulos, Aristede A., New York, N. Y. Safety razor. 1,756,224; Apr. 29.

Theodoropulos, Aristede A., New York, N. Y. Stocking-protecting footwear. 1,756,525; Apr. 29.

Thompson, Andrew, Niagara Falls, assignor to The Embossing Company, Albany, N. Y. Toy house. 1,756,526; Apr. 29.

Thompson, Harry C., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,756,889; Apr. 29.

Thompson, Hiram F., Oakland, Calif. Power saw. 1,756,527; Apr. 29.

Thompson, Paul B., assignor to National Pepsi-Cola Corporation, Richmond, Va. Bottle for soft drinks. Des. 81,079; Apr. 29.

Thomson, Charles M., Westmount, Quebec, Canada. Electrically welding pipes. 1,756,403; Apr. 29.

Thum, Walter A., St. Louis, Mo. Shoe-heel-setting device. 1,756,708; Apr. 29.

Thurstensen, Soren, assignor to Henry Vogt Machine Co., Louisville, Ky. Union check valve. 1,756,225; Apr. 29.

Tickell, Richard H., London, England. Plug for tobacco pipes. 1,756,890; Apr. 29.

Tight, Dexter J., assignor to R. N. Nason & Co., San Francisco, Calif. Lacquer. 1,756,528; Apr. 29.

Tiller, George E., Sioux City, Iowa. Oil burner. 1,756,226; Apr. 29.

Tilssner, Charles, Oglesby, Ill. Wheel, pulley, and gear puller. 1,756,891; Apr. 29.

Timberlake, Journey F., Charlottesville, Va. Broom. 1,756,404; Apr. 29.

Timken Roller Bearing Company, The. (See Streby, Ray D., assignor.)

Tobacco By-Products & Chemical Corporation. (See Arnold, R. B., and Hixon, assignors.)

Tormyn, Herman, assignor to General Motors Corporation, Detroit, Mich. Flash-shearing machine. 1,756,918; Apr. 29.

Torr, Francis P., et al. (See Winning, John F. F., assignor.)

Torrent, John, Muskegon, Mich. Screen for automobile windows and the like. 1,756,227; Apr. 29.

Torson, Martin G., Kansas City, Kans. Signaling system for automobiles. 1,756,108; Apr. 29.

Tost, Charles R., Centerdale, assignor to The Hadley Company, Providence, R. I. Wrist-watch bracelet. 1,756,769; Apr. 29.

Transit Mixers, Inc. (See Schneider, Peter F., assignor.)

Treat, Lester A., Blandford, Mass. Vulva clamp. 1,756,670; Apr. 29.

Trencham, Henry. (See Huber, H. J. H., and Trencham.)

Trickey, John P., Evanston, assignor to Quaker Oats Company, Chicago, Ill. Solvent for cellulose nitrate. 1,756,228; Apr. 29.

Tridex Corporation. (See Wier, Stuart A., assignor.)

Trippeda, Charles S., New York, and A. J. Dichiaro, Brooklyn, assignors of one-fourth to E. Scavone and one-fourth to B. Fichtelberg, New York, N. Y. Handle-adjusting means. 1,756,801; Apr. 29.

Tucker, Oliver M., and W. A. Reeves, Columbus, Ohio, assignors to Hartford-Empire Company, Hartford, Conn. Method and apparatus for supporting and delivering viscous glass. 1,756,109; Apr. 29.

Turbo-Mixer Corporation, The. (See Beers, Henry S., assignor.)

Turnbow, Grover D. (See Farrall, A. W., and Turnbow, John H., assignor.)

Turner and Seymour Mfg. Company, The. (See Hilliard, Turner, Harry W., Schenectady, N. Y., assignor to General Electric Company. Electrical winding. 1,756,892; Apr. 29.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Protector mechanism for looms. 1,756,610; Apr. 29.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Controlling weft ends in automatic looms. 1,756,709; Apr. 29.

Turner Tanning Machinery Company, The. (See Ballard, Harrie A., assignor.)

Turner, William, Portland, Oreg. Window-screen device. 1,756,229; Apr. 29.

Turney, Barbara E. (See Sadler, Frederick W., assignor.)

Tuttle, Martin, Des Moines, Iowa. Grinding apparatus. 1,756,710; Apr. 29.

Ullring, George, Chicago, Ill. Roll wiper or cleaner for printing presses and similar machines. 1,756,841; Apr. 29.

Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)

Underwood Elliott Fisher Company. (See Norin, Carl E., assignor.)

Union Metal Products Company. (See Gilpin, Garth G., assignor.)

Union Oil Company of California. (See Marshall, Harry C., assignor.)

Union Special Machine Company. (See Moffatt, James R., assignor.)

Union Steel Products Company. (See Hatch, Charles T., assignor.)

Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)

United Candy Company. (See Swett, Wesley S., assignor.)

United-Carr Fastener Corporation. (See Carr, Fred S., assignor.)

United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)

United Shoe Machinery Corporation. (See Gordon, George N., assignor.)

U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)

Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)

Universal Oil Products Company. (See Huff, Lyman C., assignor.)

Upham, Burt F., Brookline, Mass., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Printing-press delivery. 1,756,405; Apr. 29.

Vance, Robert J., sr., Belleville, N. J. Interchangeable bracelet and brooch. 1,756,041; Apr. 29.

Van Epp, Paul N., Port Clinton, Ohio, assignor of one-third to L. E. Owen, Springfield, Mo. Trolley retriever. 1,756,074; Apr. 29.

Van Valkenburg, Herman L., and S. Miller, Wauwatosa, assignors to The Paralock Company, Milwaukee, Wis. Automobile seat. 1,756,230; Apr. 29.

Van Voorhees, Harold E., assignor of one-half to F. F. Hamilton, Indianapolis, Ind. Muffler for internal-combustion engines. 1,756,711; Apr. 29.

Vaughan, Henry H., Montreal, Quebec, and W. G. Cumming, Westmount, Quebec, assignors to Cumming Pump Corporation Limited, Montreal, Canada. Air compressor. 1,756,712; Apr. 29.

Veeder, Curtis H., assignor to Veeder-Root, Incorporated, Hartford, Conn. Counter. 1,756,443; Apr. 29.

Veeder-Root Incorporated. (See Veeder, Curtis H., assignor.)

Vensiaff, Richard R. W., and O. F. Buck, Berlin, Germany. Endless-track vehicle. 1,756,770; Apr. 29.

Verley, Albert, Isle St. Denis, France. Substituting alkyl groups in the aromatic nucleus. 1,756,575; Apr. 29.

Vernet, Waldemar, New York, N. Y. Rubber-sponge soap dish. 1,756,713; Apr. 29.

Viberg, Ernest R., Montreal, Quebec, Canada. Drawbar-key safety device. 1,756,406; Apr. 29.

Viele, Sylvester M., Altoona, Pa. Apparatus for mounting wires. 1,756,316; Apr. 29.

Vignos, James C., Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio. Metal pickling. 1,756,317; Apr. 29.

Villano, John W. (See Piccolo, J., and Villano.)

Vobach, Arnold C., Whiting, Ind., and E. C. Herthel, assignors to Sinclair Refining Company, Chicago, Ill. Oil still. 1,756,407; Apr. 29.

Vogt, Hans. (See Engl, J., Vogt, and Massolle.)

Vogt, Henry, Machine Co. (See Thurstensen, Soren, assignor.)

Voigt, Max T., assignor, by mesne assignments, to American Safety Table Company, Inc., Reading, Pa. Transmission apparatus. 1,756,576; Apr. 29.

Von Brockdorff, Rudolf, Munich, Germany, assignor to Schutte and Koerting Company, Philadelphia, Pa. Electric heating means. 1,756,444; Apr. 29.

Voss, William H., Davenport, Iowa. Washing machine with multiple liquid impelling device. 1,756,318; Apr. 29.

Voth, Walter P., assignor to The Akron Standard Mold Company, Akron, Ohio. Mold. 1,756,265; Apr. 29.

Voth, Walter P., assignor to The Akron Standard Mold Company, Akron, Ohio. Mold. 1,756,266; Apr. 29.

W. S. T. Sani-Products Corp. (See Walker, J. T., and Weitlich, assignors.)

Wacker, William E., Newark, N. J., assignor to August Goertz & Co., Inc. Cosmetic receptacle. 1,756,042; Apr. 29.

Wackerly, Harry A., assignor to The Morgan Engineering Company, Alliance, Ohio. Limit-switch device. 1,756,714; Apr. 29.

Waddingham, Stanley H., Seattle, Wash. Automobile radiator-cap ornament. Des. 81,080; Apr. 29.

Wadsworth, Leslie H. (See Wursbach, H. E., and Wadsworth.)

Wagner, Joshua. (See Schroeder, L. H., and Wagner.)

Wakefield, Harold F., Newark, N. J., assignor to Bakelite Corporation, New York, N. Y. Varnish or lacquer and preparing the same. 1,756,267; Apr. 29.

Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Warp stop motion for looms. 1,756,611; Apr. 29.

Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Self-threading shuttle. 1,756,612; Apr. 29.

Walde, Albert H., Roxborough, Pa. Battery terminal. 1,756,445; Apr. 29.

Walker, James T., Pelham, and H. O. Weitlich, New Rochelle, assignors to W. S. T. Sani-Products Corp., Brooklyn, N. Y. Combination powder puff and cleanser. 1,756,408; Apr. 29.

Warner, John C., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. 1,756,893; Apr. 29.

Warnick, Philip, Elizabeth, N. J. Window screen. 1,756,496; Apr. 29.

Warren, Glenn B., Schenectady, N. Y., assignor to General Electric Company. Turbo-generator installation. 1,756,894; Apr. 29.

Warren, Harry R., assignor to Warren-Teed Seed Company, Chicago, Ill. Treating alfalfa, clover, and other hard-shelled seeds to promote prompt germination and remove weed seeds therefrom. 1,756,497; Apr. 29.

Warren-Teed Seed Company. (See Kellogg, John L., assignor.)

Warren-Teed Seed Company. (See Warren, Harry R., assignor.)

Watertown Table-Slide Company. (See Drew, Herbert H., assignor.)

Watson, Alfred E., and F. Plutte, London, England. Carton for packing reels of wire and the like. 1,756,771; Apr. 29.

Watts Finchem and Company. (See Downs, John, assignor.)

Wayne Company. (See Crawford, Malcolm J., assignor).

Wayne Home Equipment Company, The. (See Robertson, Edwin A., assignor.)

Weber, John J., Wilmette, assignor to J. H. Jochum, jr., Chicago, Ill. Surface ornamentation. Re17,654; Apr. 29.

Webster, Harry A., assignor to Armstrong Cork Company, Lancaster, Pa. Block-printing machine. 1,756,268; Apr. 29.

Weidhaas, Francis E., Bronxville, N. Y. Stage curtain or drop. 1,756,043; Apr. 29.

Weinheim, Emil, New York, N. Y. Siphon bottle. 1,756,269; Apr. 29.

Weisberg, Louis, and R. B. Stevens, assignors to Alchemic Gold Company, Inc., New York, N. Y. Coating materials. 1,756,772; Apr. 29.

Weiss, Arthur J., West Orange, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y. Top-sealing process. 1,756,409; Apr. 29.

Weitlich, Harry O. (See Walker, J. T., and Weitlich.)

Welch, W. M., Mfg. Co. (See Kopp, Reinhold A., assignor.)

Wendt, Alfred, Fresno, Calif. Hand tool. 1,756,773; Apr. 29.

Wents, Jesse F., New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated. 1,756,319; Apr. 29.

Wertz, Austin L., Cleveland, Ohio. Flushing and cleaning device. 1,756,410; Apr. 29.

Wescott, William B., assignor to Rubber Latex Research Corporation, Boston, Mass. Dry molding. 1,756,411; Apr. 29.

West End Chemical Company. (See Hellmers, Henry D., assignor.)

Western Electric Company. (See Buckley, Oliver E., assignor.)

Western Electric Company. (See Gilbert, John J., assignor.)

Western Electric Company. (See McCann, Paul S., assignor.)

Western Electric Company. (See Ten Eyck, William B., assignor.)

Western Electric Company. (See Wentz, Jesse F., assignor.)

Westinghouse Electric and Manufacturing Company. (See Pleasant, Herman E., assignor.)

Westlake, Charles T., deceased, St. Louis, Mo., by Commonwealth Steel Company, assignee, assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill. Locomotive trailer truck. Re17,655; Apr. 29.

Weston, Alonzo H., Yonkers, N. Y., assignor to American Chain Company, Inc. Guard-rail brace. 1,756,842; Apr. 29.

Weston, Sydney F., East Putney, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler gauge. 1,756,577; Apr. 29.

Wetherill-Morris Engineering Company. (See Morris, A. W., and Wetherill, assignors.)

Wetherill, Samuel P., jr. (See Morris, A. W., and Wetherill.)

Wharton, William B. (See Hempstead, Charles S., assignor.)

Wheeler, Henry H., Brooklyn, assignor to General Cigar Company, Inc., New York, N. Y. Cigar-transferring machine. 1,756,843; Apr. 29.

Wheeler, Leonard H., assignor to Stewart-Warner Corporation, Chicago, Ill. Vacuum tank. 1,756,895; Apr. 29.

White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. 1,756,412; Apr. 29.

White, Franklin R., assignor to The Patent Button Company, Waterbury, Conn. Button. 1,756,715; Apr. 29.

White, John F., assignor to H. B. Staver, Chicago, Ill. Animal-racing lure. 1,756,015; Apr. 29.

White, John F., assignor to H. B. Staver, Chicago, Ill. Lure carrier for races. 1,756,044; Apr. 29.

Whitmanis Manufacturing Company. (See Whitney, Karl H., assignor.)

Whitney, Allen B., et al. (See Jones, Frank H., assignor.)

Whitney-Jarvis Company. (See Whitney, Logan R., assignor.)

Whitney, Karl H., assignor to Whitmanis Manufacturing Company Inc., Kirksville, Mo. Supporting bar. 1,756,716; Apr. 29.

Whitney, Logan R., Los Angeles, Calif., assignor to Whitney-Jarvis Company, Louisville, Ky. Can opener. 1,756,613; Apr. 29.

Whitney, Lyman F., Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc. Fluid pumping. 1,756,802; Apr. 29.

Whittenberger, Percival L., Bisbee, Ariz. Spring wheel. 1,756,270; Apr. 29.

Wickwire Spencer Steel Company. (See King, Vernon C., assignor.)

Wiebe, Sigurd J. A., East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Furnace. 1,756,320; Apr. 29.

Wiedeke, Gustav, assignor to Gustav Wiedeke Company, Dayton, Ohio. Wrench. 1,756,717; Apr. 29.

Wiedeke, Gustav, Company. (See Wiedeke, Gustav, assignor.)

Wiener, John A., assignor to Oswego Board Corporation, Oswego, N. Y. Lifting and transferring device. 1,756,614; Apr. 29.

Wier, Stuart A., assignor to Tridex Corporation, Dallas, Tex. Multiple fluid generator. 1,756,322; Apr. 29.

Wild, Gunther P., Philadelphia, Pa. Latching device. 1,756,718; Apr. 29.

Wiley, James S., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Bag or envelope. 1,756,047; Apr. 29.

Wiley, Samuel, Metuchen, N. J. Pistol for discharging signal cartridges. 1,756,271; Apr. 29.

Wilfley, A. R., and Sons. (See Wilfley, Elmer R., assignor.)

Wilfley, A. R., and Sons. (See Wilfley, George F., assignor.)

Wilfley, Elmer R., Denver, Colo., assignor to A. R. Wilfley and Sons, Inc. Centrifugal pump. 1,756,323; Apr. 29.

Wilfley, George F., Denver, Colo., assignor to A. R. Wilfley and Sons, Inc. Centrifugal pump. 1,756,324; Apr. 29.

Wilhelmi, Valentin, Maywood, N. J. Boiler connection. 1,756,045; Apr. 29.

Wilhelmi, Valentin, Maywood, N. J. Boiler connection. 1,756,046; Apr. 29.

Wilke, John J. (See Wilke, Norman H., and J. J.)

Wilke, Norman H., and J. J., Toledo, Ohio. Ball-bearing swing hinge. 1,756,413; Apr. 29.

Williams, Jacob D. W., Tabor, N. C. Berry-picker's vehicle. 1,756,803; Apr. 29.

Williams, Lewis G. (See Mitchell, John F., assignor.)

Williams, Reginald V., Buffalo, N. Y. Apparatus for treating dental investments. 1,756,325; Apr. 29.

Williams, Theophilus G., Morristown, N. J. Lady's novelty hand bag. 1,756,048; Apr. 29.

Williams, William E., Wilmette, assignor to Ditto, Incorporated, Chicago, Ill. Gelatin-sheet copying machine. 1,756,578; Apr. 29.

Williams, William H., and E. C. Britton, assignors to The Dow Chemical Company, Midland, Mich. Manufacture of phenates. 1,756,110; Apr. 29.

Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Electric-lighting fixture. 1,756,774; Apr. 29.

Wilson, J. G., Corporation. (See Dodge, Arthur H., assignor.)

Winchester, Carey C., assignor to National Cedarchex Corporation, Fulton, Brookhaven County, Ga. Fumigating device. 1,756,414; Apr. 29.

Wine, William E., Toledo, Ohio. Railway hopper car. 1,756,075. Apr. 29.

Winning, John F. F., et al. (See Winning, John F. F., assignor.)

Winning, John F. F., Hanwell, assignor to J. F. F. Winning, F. P. Torr, and A. Hilton, trading as The Bag Frame and Components Company, Hoxton, England. Extensible fastening. 1,756,775; Apr. 29.

Wintroath, John A., assignor to Peerless Pump Company, Los Angeles, Calif. Self-adjusting intermediate bushing. 1,756,326; Apr. 29.

Wired Radio, Inc. (See Davis, Chester L., assignor.)

Wisner, Abram C., assignor to Reynolds Spring Company, Jackson, Mich. Base frame for spring-cushion seats. 1,756,579; Apr. 29.

Wisner, Adrian W., Tacoma, Wash. Photographic copying apparatus. 1,756,111; Apr. 29.

Wisner, Clarence B., Canton, Ohio, assignor, by mesne assignments, to Coal Process Corporation, Dover, Del. Coal ball and manufacturing the same. 1,756,896; Apr. 29.
Wissinger, Thomas K., et al. (See Howard, Charles O., assignor.)
Wolff, Daniel R., assignor to The Ohio Brass Company, Mansfield, Ohio. Valve. 1,756,615; Apr. 29.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Delivery fan. 1,756,616; Apr. 29.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Multiple casting machine. 1,756,617; Apr. 29.
Wood, John E., Hatboro, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,756,776; Apr. 29.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Wood, Rodney J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Credit file. 1,756,415; Apr. 29.
Wood, Walter. (See Camerota, Louis A., assignor.)
Woodhead, Harry, assignor to The Midland Steel Products Company, Cleveland, Ohio. Pipe coupling. 1,756,417; Apr. 29.
Woods, Harold B., Hudson, Mass., assignor, by mesne assignments, to Consolidated Automatic Merchandising Corporation. Envelope-dispensing machine. 1,756,418; Apr. 29.
Woods, Sophie L. (See Crawford, George S., assignor.)
Worthington Pump and Machinery Corporation. (See Riesner, Michael, assignor.)
Worthington Pump and Machinery Corporation. (See Saharoff, Alexander V., assignor.)
Woytych, Raymond M. (See Kempton, H. E., Gallimore, and Woytych.)
Wragg, Charles A., Washington, D. C. Control of lift and balance of aircraft. 1,756,272; Apr. 29.
Wright, Frederic E., New York, N. Y. Card table. 1,756,777; Apr. 29.
Wright, Wallace C., Brookfield, N. H., assignor to Harding Engineering Company, East Boston, Mass. Weighting and grading machine. 1,756,016; Apr. 29.
Wurzbach, Hugh E., and L. H. Wadsworth, Magna, assignors to Selector Corporation, Salt Lake City, Utah. Method and apparatus for selecting checks. 1,756,076; Apr. 29.
Wurzbach, Hugh E., and L. H. Wadsworth, Magna, assignors to Selector Corporation, Salt Lake City, Utah. Check-controlled apparatus. 1,756,619; Apr. 29.
Wüst, Fritz, Dusseldorf, assignor to the firm Th. Goldschmidt A.-G., Essen, Germany. Utilizing bundled scrap metal. 1,756,049; Apr. 29.
Wyman-Gordon Company. (See Damerell, Mark H., assignor.)
Wyman-Gordon Company. (See Oldson, John A., assignor.)
Wynkoop, Francis Y., Denver, Colo. Signal cap for pneumatic tires. 1,756,273; Apr. 29.
Yanchenko, Basil J., New York, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Hosiery press. 1,756,498; Apr. 29.
Yarnall, David R., Philadelphia, Pa. Continuous-surface blow-down system for boilers. 1,756,620; Apr. 29.
Yellow Truck & Coach Manufacturing Company. (See Schjolin, Eric O., assignor.)
Young, Ruby R. (See Olson, J. B., and Young.)
Zadek, Arthur, New York, N. Y. Rattle with sound-making attachment. 1,756,077; Apr. 29.
Zielimski, Theodore A., Detroit, Mich. Windshield wiper. 1,756,618; Apr. 29.
Zifferer, Lothar R., Columbia, Pa. Expansion shield. 1,756,419; Apr. 29.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF APRIL, 1930

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid and hydrogen, Producing phosphoric. M. Larsson. 1,756,429; Apr. 29.
Acid, Manufacture of nitric. M. Battegay. 1,756,632; Apr. 29.
Acids, Separation of mononitronaphthalene disulphonic. W. J. Cotton. 1,756,537; Apr. 29.
Adhesive-applying machine. C. S. Price. 1,756,833; Apr. 29.
Advertisement. A. G. Escasena. 1,756,021; Apr. 29.
Aerofoil. K. N. Pearson. 1,756,300; Apr. 29.
Aeroplane. L. D. Moss. 1,756,469; Apr. 29.
Aeroplane landing means. L. Holland. 1,756,747; Apr. 29.
Agitated materials, Apparatus for determining variations in the physical conditions of. A. W. Farrall and G. D. Turnbow. 1,756,286; Apr. 29.
Air against pressure, Moving. F. Charavay. 1,756,848; Apr. 29.
Air cleaner. L. V. Cram. 1,756,909; Apr. 29.
Air cleaner. F. S. Orem. 1,756,758; Apr. 29.
Air-compressing unit, Portable. H. W. Beach. 1,756,806; Apr. 29.
Air compressor. H. H. Vaughan and W. G. Cumming. 1,756,712; Apr. 29.
Air-cooled furnace block. V. G. Leach. 1,756,031; Apr. 29.
Airplane. G. E. Armington and R. G. Nightingale. 1,756,231; Apr. 29.
Air-pressure apparatus for automobiles. J. Hanson. 1,756,192; Apr. 29.
Alfalfa, clover, and other hard-shelled seeds to promote prompt germination and remove weed seeds therefrom, Treating. H. R. Warren. 1,756,497; Apr. 29.
Alkyl groups in the aromatic nucleus, Substituting. A. Verley. 1,756,575; Apr. 29.
Alloy, High-speed tool-steel. G. R. Couls. 1,756,282; Apr. 29.
Altimeter. C. F. Jenkins. 1,756,462; Apr. 29.
Amusement device. A. De Freitas. 1,756,854; Apr. 29.
Amusement ride. H. F. Maynes. 1,756,832; Apr. 29.
Anchor, Cone. A. B. Chance. 1,756,534; Apr. 29.
Anchor, Rail. C. B. Shepherd. 1,756,071; Apr. 29.
Antenna. V. I. Pearson. 1,756,436; Apr. 29.
Arm rest for automobiles. H. M. Loehr. 1,756,694; Apr. 29.
Ash-removing device. C. H. Hall. 1,756,025; Apr. 29.
Autographic register. W. H. Robertson. 1,756,886; Apr. 29.
Automobile and aeroplane, Combined. A. Jezek. 1,756,463; Apr. 29.
Automobile seat. H. L. Van Valkenburg and S. Miller. 1,756,230; Apr. 29.
Auxiliary seat. B. S. Drane. 1,756,182; Apr. 29.
Back chair, etc., Adjustable. C. R. Hultgren. 1,756,644; Apr. 29.
Bag: *See*—
Hand bag.
Bag or envelope. J. S. Wiley. 1,756,047; Apr. 29.
Baking tray. A. Katzinger. 1,756,558; Apr. 29.
Balancer with single eccentric weight, Inertia-force. C. R. Short. 1,756,915; Apr. 29.
Balancing device. A. J. Bocz. 1,756,898; Apr. 29.
Ball: *See*—
Sport ball.
Band for personal wear. S. O. Bigney. 1,756,448; Apr. 29.
Bar: *See*—
Supporting bar.
Barber's chair. I. S. Mitchell. 1,756,756; Apr. 29.
Base exchange material and preparing same. A. S. Behrman. 1,756,623; Apr. 29.
Base-exchange substance. A. S. Behrman. 1,756,624; Apr. 29.
Basket for dishwashers, Upper. F. G. Brotz. 1,756,810; Apr. 29.
Basket lifter, Desk-. H. A. May. 1,756,870; Apr. 29.
Battery box. E. W. Schellentrager. 1,756,703; Apr. 29.
Battery cell and the operation thereof, Storage-. R. J. Smith. 1,756,072; Apr. 29.
Battery terminal. O. L. Boosinger. 1,756,724; Apr. 29.
Bauxite and producing same, Calcined. F. C. Frary. 1,756,425; Apr. 29.
Bead-setting ring. F. L. Allensworth. 1,756,327; Apr. 29.
Bearing and brush holder, Combined motor. H. S. Becker. 1,756,832; Apr. 29.
Bearing box and lining therefor. M. C. Neuenfelt. 1,756,095; Apr. 29.
Bearing bushing for pump construction, Sliding. A. H. Bowlzer, jr. 1,756,270; Apr. 29.
Bearing for drill pipes, Antifriction. H. H. Holdaway. 1,756,195; Apr. 29.
Bearing, Roller. G. W. Taylor. 1,756,264; Apr. 29.
Bearing, Side. G. S. Crawford. 1,756,283; Apr. 29.
Belt, Conveyer. T. E. Buckner. 1,756,278; Apr. 29.
Belt, Conveyer. V. C. King. 1,756,598; Apr. 29.
Belt for cone pulleys, Driving. S. M. Kellogg. 1,756,790; Apr. 29.
Belt tightener. W. E. Horner. 1,756,557; Apr. 29.
Belting, Woven driving. W. C. Gardiner. 1,756,151; Apr. 29.
Binder, Tractor grain. A. P. Kamrowski. 1,756,199; Apr. 29.
Blackboard and making same, Composition. F. D. Snell. 1,756,393; Apr. 29.
Block: *See*—
Air-cooled furnace block. Rod or wire drawing block.
Block printing machine. H. A. Webster. 1,756,268; Apr. 29.
Block printing machine and method of printing. W. P. Brinton. 1,756,177; Apr. 29.
Blow-down system for boilers, Continuous-surface. D. R. Yarnall. 1,756,620; Apr. 29.
Board: *See*—
Drafting board.
Boat, Aeroplane. E. Temens. 1,756,442; Apr. 29.
Boiler: *See*—
Water-tube boiler.
Boiler cleaner. N. L. Snow. 1,756,394; Apr. 29.
Boiler connection. V. Wilhelmi. 1,756,045-6; Apr. 29.
Boiler gauge. S. F. Weston. 1,756,577; Apr. 29.
Boom for excavators, Auxiliary. G. W. Acuff, jr. 1,756,166; Apr. 29.
Borax from brine, Recovering. H. D. Hellmers. 1,756,122; Apr. 29.
Border strip for service ware. H. A. Pickard. Des. 81,071; Apr. 29.
Bottle for containing fluids. J. H. Spohn, jr. 1,756,397; Apr. 29.
Bottle for soft drinks. P. B. Thompson. Des. 81,079; Apr. 29.
Bottle, Siphon. E. Weinheim. 1,756,269; Apr. 29.
Bottle washers, Unloading mechanism for. I. R. Hippenmeyer. 1,756,553; Apr. 29.
Bottle-washing machine. I. R. Hippenmeyer. 1,756,554; Apr. 29.
Bottles, Apparatus for filling and capping. O. Larsen. 1,756,561; Apr. 29.
Bottom construction for cans. R. J. Curtis. 1,756,585; Apr. 29.
Bottom construction for cans. M. L. Hunker. 1,756,593; Apr. 29.
Box: *See*—
Battery box.
Box-blanking machine. Rotary. L. H. Schroeder and J. Wagner. Re17,653; Apr. 29.
Box-toe strip pack. J. J. Daly. 1,756,115; Apr. 29.
Boxes, cardboard boxes, and the like, Manufacture of paper. E. Jagenberg. 1,756,359; Apr. 29.
Brace: *See*—
Rail brace.
Bracelet and brooch, Interchangeable. R. J. Vance, sr. 1,756,041; Apr. 29.
Bracelet, Wrist-watch. C. R. Tost. 1,756,769; Apr. 29.
Bracket: *See*—
Locomotive bumper bracket.
Brake: *See*—
Hydraulic brake.
Brake. B. E. House. 1,756,827; Apr. 29.
Brake. C. R. Short. 1,756,914; Apr. 29.
Brake assembly. J. Sneed. 1,756,812; Apr. 29.
Brake system. C. A. Ives. 1,756,922; Apr. 29.
Brake system. C. A. Ives and G. Macloskie. 1,756,921; Apr. 29.
Brake-testing apparatus. C. F. Smith. 1,756,666; Apr. 29.
Brick mold. J. A. Crowell. 1,756,146; Apr. 29.
Broom. J. F. Timberlake. 1,756,404; Apr. 29.
Brush-lifting mechanism for electric motors and the like. G. H. Leland. 1,756,692; Apr. 29.
Brush, Shaving. H. J. Brownsberger and H. E. McConnell. 1,756,811; Apr. 29.
Buckle. G. J. Meisel and B. Sklerov. Des. 81,062; Apr. 29.
Buckle or the like, Suspender. L. W. Shields. Des. 81,075; Apr. 29.
Buckle, Shoe. G. H. Pulsifer. Des. 81,073; Apr. 29.

Buckle, Shoe. W. E. Smith. Des. 81,076–7; Apr. 29.
Burner: *See*—
Gas burner. Oil burner.
Bushing, Self-adjusting intermediate. J. A. Wintrouth. 1,756,326; Apr. 29.
Button. F. R. White. 1,756,412; Apr. 29.
Button. F. R. White. 1,756,715; Apr. 29.
Cabinet for a sound-reproducing instrument or the like. N. P. Bloom. Des. 81,048; Apr. 29.
Cabinet, Individual-towel. F. G. Steiner. 1,756,767; Apr. 29.
Cabinet, Kitchenette and medicine. C. E. Johnson. 1,756,828; Apr. 29.
Cabinet, Refrigerator. H. E. Pleasant. Des. 81,072; Apr. 29.
Cabinet, Sanitary roll-towel. E. T. Halls. 1,756,822; Apr. 29.
Cabinet, Towel. G. Olson. 1,756,757; Apr. 29.
Cabinet, Towel. F. G. Steiner. 1,756,765–6; Apr. 29.
Cabinet, Towel. F. G. Steiner. 1,756,840; Apr. 29.
Cabinet, Towel. F. M. Steiner and W. S. Graves. 1,756,839; Apr. 29.
Cabinet, Towel. G. A. Steiner. 1,756,926–8; Apr. 29.
Cable clamp. C. A. Johnson. 1,756,860; Apr. 29.
Cable joint, Insulated. A. O. Austin. 1,756,080; Apr. 29.
Cables, Outlet for multiple-conductor. A. O. Austin. 1,756,233; Apr. 29.
Calendar, Perpetual. R. B. Lee. 1,756,600; Apr. 29.
Can: *See*—
Oil measuring and dispensing can.
Can-ejecting mechanism. W. H. Paulson. 1,756,522; Apr. 29.
Can-filling machine. O. H. Hansen. 1,756,548; Apr. 29.
Can for pruning shears, Oil. H. Nishinaka. 1,756,129; Apr. 29.
Can opener. J. H. Hilliard. 1,756,487; Apr. 29.
Can opener. L. R. Whitney. 1,756,613; Apr. 29.
Can opener, Portable. C. D. Cummings. 1,756,633; Apr. 29.
Candy-cutting machine. D. T. Igou. 1,756,750; Apr. 29.
Candy, Method of and apparatus for cooking. W. P. Reed. 1,756,662; Apr. 29.
Cane cutter. M. Sasaki. 1,756,664; Apr. 29.
Car construction, Railway-. G. G. Gilpin. 1,756,352; Apr. 29.
Car, Railway hopper. W. E. Wine. 1,756,075; Apr. 29.
Carbon deposits from oil apparatus, Apparatus for removing. L. C. Huff. 1,756,028; Apr. 29.
Carbonaceous deposits from oil apparatus, Apparatus for removing. L. C. Huff. 1,756,027; Apr. 29.
Carburetor. J. Astrom. 1,756,580; Apr. 29.
Carburetor. A. Mijares. 1,756,430–1; Apr. 29.
Carburetor, Rotary vaporizing. W. J. Baker. 1,756,805; Apr. 29.
Card table. F. E. Wright. 1,756,777; Apr. 29.
Cargo-discharging apparatus. L. McMillan. 1,756,518; Apr. 29.
Carriage, Skidding. J. H. Dickinson. 1,756,732; Apr. 29.
Carrier: *See*—
Tool and tire carrier.
Carton for packing reels of wire and the like. A. E. Watson and F. Flutte. 1,756,771; Apr. 29.
Carton, Ready-opening and self-sealing. A. J. Gans. 1,756,150; Apr. 29.
Case: *See*—
Cigarette case. Match case.
Key case.
Casing cutter. A. M. Monroe. 1,756,128; Apr. 29.
Casing for a suction cleaner or similar article. G. Page-Wood. Des. 81,067; Apr. 29.
Cash register. F. L. Fuller. 1,756,350; Apr. 29.
Caskets, Clamping means for. J. E. Falck. 1,756,185; Apr. 29.
Casting machine. H. C. Merrill. 1,756,654; Apr. 29.
Casting machine, Multiple. H. A. W. Wood. 1,756,617; Apr. 29.
Casting machines, Attachment for. A. W. Morris and S. P. Wetherill, jr. 1,756,602; Apr. 29.
Castings for molds, Method and apparatus for extracting. L. A. Camerota. 1,756,812; Apr. 29.
Cedar chest. J. R. Hogan. 1,756,746; Apr. 29.
Cementitious material of cellular texture, Making. G. B. Hinton. 1,756,789; Apr. 29.
Ceramic material and binding agent as well as a process for producing such material. V. M. Goldschmidt and R. Knudsen. 1,756,786; Apr. 29.
Chain. S. F. Robidoue. 1,756,101; Apr. 29.
Chain connecter. H. Nischke. 1,756,521; Apr. 29.
Chair: *See*—
Barber's chair. Collapsible chair.
Chair. T. R. Hayes. 1,756,551; Apr. 29.
Chair. M. Kirkpatrick. Des. 81,056; Apr. 29.
Chair. E. Racz. 1,756,210; Apr. 29.
Chair attachment, Barber's-. A. Antinoro. 1,756,112; Apr. 29.
Chair construction. F. F. Fortney. 1,756,545; Apr. 29.
Chart. B. Taft. 1,756,040; Apr. 29.
Check-controlled apparatus. H. E. Wurzbach and L. H. Wadsworth. 1,756,619; Apr. 29.
Check for vehicles, Rebound. C. S. Burton. 1,756,052; Apr. 29.
Checks, Method and apparatus for selecting. H. E. Wurzbach and L. H. Wadsworth. 1,756,076; Apr. 29.
Chemical product and making same. C. Ellis and J. V. Meigs. 1,756,817; Apr. 29.
Chemical product and producing same. C. Ellis and J. V. Meigs. 1,756,818; Apr. 29.
Cherry dropper. W. S. Swett. 1,756,222; Apr. 29.
Chest: *See*—
Cedar chest.
Chloride from chlorine and a magnesium base, Making magnesium. T. Griswold, jr., and R. M. Hunter. 1,756,247; Apr. 29.
Chlorinator. C. V. Swearingen. 1,756,105; Apr. 29.
Cigar-transferring machine. H. H. Wheeler. 1,756,843; Apr. 29.
Cigarette case. A. L. Kondysar. 1,756,900; Apr. 29.
Cinema or analogous projecting apparatus. F. Seufert. 1,756,440; Apr. 29.
Circuit arrangement, Electrical delay. E. W. Niles and W. H. Edwards. 1,756,097; Apr. 29.
Circuit breaker. H. Milliken. 1,756,374; Apr. 29.
Circuit breaker. E. D. Moore. 1,756,656; Apr. 29.
Circuit tuning device, Electric-. W. A. Ready. 1,756,570; Apr. 29.
Circuits, Impedance variation compensator. M. M. Dolmage. 1,756,816; Apr. 29.
Clamp: *See*—
Cable clamp. Vulva clamp.
Form clamp.
Clamp for positioning metallic curb edgings. C. S. Hempstead. 1,756,514; Apr. 29.
Cleaner: *See*—
Air cleaner. Boiler cleaner.
Clip for writing tools. C. F. Doebler. 1,756,241; Apr. 29.
Clock and similar indicator. A. F. Poole. 1,756,437; Apr. 29.
Clock, Electric. A. F. Poole. 1,756,472; Apr. 29.
Clock frame. A. Hart. Des. 81,054; Apr. 29.
Clock frame and face, Combined. R. E. Patten. Des. 81,068; Apr. 29.
Closure or container for hose and the like, Protective. A. V. H. Monro. 1,756,874; Apr. 29.
Cloth, Swaddling. M. Bersin. 1,756,508; Apr. 29.
Clutch. F. H. Jones. 1,756,428; Apr. 29.
Clutch, Disk friction. E. J. Desroziers. 1,756,731; Apr. 29.
Clutch, Electromagnetic. C. Q. Payne. 1,756,907; Apr. 29.
Clutch mechanism. I. Hupp. 1,756,063; Apr. 29.
Coal ball and manufacturing the same. C. B. Wisner. 1,756,896; Apr. 29.
Coal chutes, Safety cut-off for. M. Powell. 1,756,569; Apr. 29.
Coating machine. C. T. Hatch. 1,756,744; Apr. 29.
Coffeepot. C. G. Bordeaux. 1,756,725; Apr. 29.
Coffee steeper. G. I. Green. 1,756,460; Apr. 29.
Coiled spring. M. Stubnitz. 1,756,669; Apr. 29.
Coin-controlled mechanism. W. H. Rowe. 1,756,388; Apr. 29.
Coin machines, Game attachment for. H. H. Hoke, jr. 1,756,861; Apr. 29.
Coking process and product, Pitch-. J. Becker. 1,756,234; Apr. 29.
Collapsible chair. W. J. Bauer. 1,756,421; Apr. 29.
Collar, Soft. G. Jacoby. 1,756,752; Apr. 29.
Color fountain for block printing machines. W. F. Kaufman. 1,756,200; Apr. 29.
Columns, Forming plastic. E. B. Dowd. 1,756,541; Apr. 29.
Combustible. S. S. P. Meek. 1,756,255; Apr. 29.
Composition. C. T. Riley. 1,756,762; Apr. 29.
Concrete mixer. P. F. Schneider. 1,756,390; Apr. 29.
Concrete-pouring forms, Locking up. S. S. Colt. 1,756,632; Apr. 29.
Concrete step. J. Gentile. 1,756,351; Apr. 29.
Condenser for high-tension ignition circuits, Electric. C. A. Henry. 1,756,486; Apr. 29.
Condenser tubes, Apparatus for cleaning. W. F. Oberhuber. 1,756,378; Apr. 29.
Condenser, Variable. G. F. Behringer. 1,756,447; Apr. 29.
Condenser, Variable. W. Dubilier. 1,756,512; Apr. 29.
Conductor. W. B. Ten Eyck. 1,756,314; Apr. 29.
Conductor. J. F. Wentz. 1,756,319; Apr. 29.
Conductor, Continuously-loaded. P. S. McCann. 1,756,371; Apr. 29.
Conductor, Electrical. O. E. Buckley. 1,756,341; Apr. 29.
Conductor, Signaling. G. A. Anderegg. 1,756,274; Apr. 29.
Confection-coating machine. J. Piccolo and J. W. Villano. 1,756,471; Apr. 29.
Container, Nonspillable. S. Kaufman. 1,756,249; Apr. 29.
Container, Novelty. J. A. Ruskin. 1,756,135; Apr. 29.
Container, Special. L. A. Becker and J. M. Munson. 1,756,919; Apr. 29.
Control of lift and balance of aircraft. C. A. Wragg. 1,756,272; Apr. 29.
Cooker, Steam. C. L. Goughnour. 1,756,787; Apr. 29.
Cooking and heating apparatus, Combined. W. M. Johnson. 1,756,690; Apr. 29.
Cooler: *See*—
Water cooler.
Copying apparatus, Photographic. A. W. Wisner. 1,756,111; Apr. 29.
Core drill. R. C. Baker. 1,756,503; Apr. 29.
Corset and brassière, Combined. A. K. Brennan. 1,756,809; Apr. 29.
Corset construction. L. H. Loeffel. 1,756,367; Apr. 29.
Cotton gin. H. T. and O. G. Ahrens. 1,756,475; Apr. 29;
Counter. C. H. Veeder. 1,756,443; Apr. 29.

Coupling: *See*—
Metallic coupling. Pipe coupling.
Motor coupling.
Couplings, Making pipe. H. Woodhead. 1,756,416; Apr. 29.
Cover and tool holder for wells, Casing. F. W. Sadler. 1,756,799; Apr. 29.
Cover or the like, Embroidered table. S. N. Mallouk. Des. 81,060; Apr. 29.
Cover plate for sound-wave apparatus or similar article. J. M. Aufiero. Des. 81,044–5; Apr. 29.
Crane, Counterbalanced. H. E. Swenson. 1,756,106; Apr. 29.
Crank shaft, Counterbalanced. J. A. Oldson. 1,756,659; Apr. 29.
Crank-shaft-twisting machine. M. H. Damerell. 1,756,634; Apr. 29.
Cravat, four-in-hand type, Gentleman's. B. M. Levin. 1,756,295; Apr. 29.
Cultivator attachment. W. F. Cecil. 1,756,180; Apr. 29.
Cups, Method of and machine for making. C. S. Batdorf. 1,756,478; Apr. 29.
Current commutator machines, Control system for alternating-. F. Konn. 1,756,867; Apr. 29.
Curtain or drop, Stage. F. E. Weidhaas. 1,756,043; Apr. 29.
Curtain roller, Sheet-metal. H. W. Hack and J. M. Layng. 1,756,591; Apr. 29.
Cushion. L. S. Patterson. Des. 81,069; Apr. 29.
Cut-off, Low-pressure. C. L. Bryant. 1,756,340; Apr. 29.
Cutter: *See*—
Cane cutter. Sheet-metal cutter.
Casing cutter.
Cutter bar for coal-cutting machines and the like. W. C. Black. 1,756,450; Apr. 29.
Cutting mechanism. G. W. Swift, jr. 1,756,223; Apr. 29.
Decapper for bottles. C. C. Crosby. 1,756,730; Apr. 29.
Deckling and scoring machine. O. A. Jouret. 1,756,157; Apr. 29.
Delivery fan. H. A. W. Wood. 1,756,616; Apr. 29.
Dental correction, Device for encouraging. N. A. Bushong. 1,756,432; Apr. 29.
Dental crown remover. O. A. Flagstad and R. G. Lee. 1,756,245; Apr. 29.
Dental investments, Apparatus for treating. R. V. Williams. 1,756,325; Apr. 29.
Die head, Self-opening. A. F. Breitenstein. 1,756,277; Apr. 29.
Dispensing machine, Envelope-. H. B. Woods. 1,756,418; Apr. 29.
Distillation, Continuous. N. E. Loomis. 1,756,032; Apr. 29.
Distillation of vinasses under reduced pressure, Dry. J. Guillissen. 1,756,191; Apr. 29.
Distortion motor, M. A. Schwartz. 1,756,800; Apr. 29.
Dithio derivatives from aldehydes, Manufacture of. G. J. Leuck. 1,756,158; Apr. 29.
Dog-racing apparatus. S. M. Pineles. 1,756,066; Apr. 29.
Door, Car. G. B. Dorey. 1,756,455; Apr. 29.
Door interlock, Electric elevator-. R. C. Green. 1,756,738; Apr. 29.
Doorknob attachment. M. McDonald. 1,756,871; Apr. 29.
Drafting board. M. M. Harding. 1,756,289; Apr. 29.
Drier: *See*—
Film drier. Laundry drier.
Drier apparatus for paper-making machines. R. Carpenter. 1,756,630; Apr. 29.
Drill: *See*—
Core drill.
Drill. H. R. Decker. 1,756,285; Apr. 29.
Drill. W. W. Landrum. 1,756,489; Apr. 29.
Drill or reamer, Expanding. S. L. Campbell. 1,756,500; Apr. 29.
Drilling rig. M. T. Archer. 1,756,804; Apr. 29.
Drive or conveyer chain, Sectional. G. D. Ryther. 1,756,136; Apr. 29.
Dropper: *See*—
Cherry dropper.
Duplicating machine. R. E. L. Spence, jr. 1,756,395; Apr. 29.
Duplicating machines, Feed mechanism for rotary. E. J. Brasseur. 1,756,674; Apr. 29.
Dye and making the same, Azo. H. Jordan. 1,756,248; Apr. 29.
Dyeing process and mechanism. R. C. Rahm. 1,756,067; Apr. 29.
Effigy. F. B. Baker. 1,756,420; Apr. 29.
Electric discharge device. J. E. Potter. 1,756,878; Apr. 29.
Electric fixture. H. T. Paiste. 1,756,929; Apr. 29.
Electric machine, Dynamo-. V. G. Apple. 1,756,501; Apr. 29.
Electric machine, Dynamo-. J. M. Barr. 1,756,672; Apr. 29.
Electrical apparatus. R. M. Gilson. 1,756,589; Apr. 29.
Electrical control apparatus. W. M. Brower. 1,756,727; Apr. 29.
Electrical induction apparatus. L. F. Blume and W. O. Dwyer. 1,756,846; Apr. 29.
Electrical inductive apparatus and system, Unidirectional. J. W. McNairy. 1,756,924; Apr. 29.
Electrical winding. H. W. Turner. 1,756,892; Apr. 29.
Electromagnetic switch. F. Döring and K. Müller. 1,756,540; Apr. 29.
Electron-discharge apparatus. H. C. Thompson. 1,756,889; Apr. 29.
Electron-discharge apparatus. J. C. Warner. 1,756,898; Apr. 29.
Electroresponsive device. J. W. McNairy. 1,756,923; Apr. 29.
Elevator links, Making weldless. G. W. Moore. 1,756,376; Apr. 29.
Engine: *See*—
Internal-combustion engine. Valve engine.
Oscillating engine.
Engine of the two-stroke type, Internal-combustion. C. E. Helbig. 1,756,354; Apr. 29.
Engines, Auxiliary feeding for internal-combustion. J. B. Bergougnoux. 1,756,751; Apr. 29.
Envelope opener. L. Boll. 1,756,113; Apr. 29.
Excavators, Power control for. P. Burke. 1,756,051; Apr. 29.
Exhibition and advertisement stand. M. A. Braastad. 1,756,849; Apr. 29.
Explosives into strings, Method and apparatus for forming plastic. A. E. Andelin. 1,756,328; Apr. 29.
Extension device. S. J. Bertherman. 1,756,333; Apr. 29.
Extension table. H. H. Drew. 1,756,586; Apr. 29.
Extractor: *See*—
Juice extractor.
Eyelet. F. G. Neuberth. 1,756,256; Apr. 29.
Eyelet, One-piece. I. Hill. 1,756,356; Apr. 29.
Fabric and preparing the same, Breaker. W. K. Sawyer. 1,756,069; Apr. 29.
Fabric for tire building, Preparing cord. K. T. Henderson. 1,756,355; Apr. 29.
Fan. W. H. Schneider. 1,756,215; Apr. 29.
Fastener. F. and S. Gallina. 1,756,736; Apr. 29.
Fastener, Door. L. Taffe. 1,756,813; Apr. 29.
Fastener, Pronged. H. V. Rau. 1,756,385; Apr. 29.
Fasteners, Manufacturing. F. G. Neuberth. 1,756,257; Apr. 29.
Fastening device, Glass-. E. Pendery. 1,756,302; Apr. 29.
Fastening, Extensible. J. F. F. Winning. 1,756,775; Apr. 29.
Feed track for plastic plate glass, Inclined. R. Genenger. 1,756,118; Apr. 29.
Fence material and making the same. C. W. Spicer. 1,756,896; Apr. 29.
Filament-tensioning means. W. I. Relyea. 1,756,882; Apr. 29.
File, Credit. R. J. Wood. 1,756,415; Apr. 29.
Filing device. L. E. Hutchings. 1,756,866; Apr. 29.
Film drier. G. W. Hopkins. 1,756,197; Apr. 29.
Film-driving apparatus. C. A. Hoxie. 1,756,864; Apr. 29.
Films, Making motion-picture. C. A. Hoxie. 1,756,863; Apr. 29.
Finger ring. C. M. Levy. Des. 81,058; Apr. 29.
Fire extinguisher, Underground. J. W. Butler. 1,756,582; Apr. 29.
Fireplace. H. P. Dowler. 1,756,511; Apr. 29.
Fixture, Drapery-suspension. C. W. Kirsch. 1,756,365; Apr. 29.
Flooring dividing strip, Terrazzo-. P. Galassi. 1,756,856; Apr. 29.
Flooring, Expansion and shrinkage take-up in block and plank. B. W. Cadwallader. 1,756,583; Apr. 29.
Flow indicator. W. H. Marsh. 1,756,491; Apr. 29.
Fluid generator, Multiple. S. A. Wier. 1,756,322; Apr. 29.
Fluid generator, Pressure-. J. T. Dalcher. 1,756,423; Apr. 29.
Fluid pumping. L. F. Whitney. 1,756,802; Apr. 29.
Fluidiser and method of fluidizing. H. G. Lykken. 1,756,254; Apr. 29.
Fluids, Device for regulating flow of. F. Hasemann. 1,756,824; Apr. 29.
Flushing and cleaning device. A. L. Wertz. 1,756,410; Apr. 29.
Flushing device, Sewer-. L. F. Katona. 1,756,596; Apr. 29.
Fly screen, Window. A. Brière. 1,756,176; Apr. 29.
Flyer for spinning and like machines. P. Daugert, H. Frey, and J. J. Dunleavy. 1,756,899; Apr. 29.
Flytrap. E. V. Lillian. 1,756,648; Apr. 29.
Flywheel and self-oiling wrist pin. A. R. Preece. 1,756,661; Apr. 29.
Focusing device. C. Sklarek. 1,756,140; Apr. 29.
Folding seat, Removable. J. F. Holliday. 1,756,687; Apr. 29.
Food, Sterilizing. O. H. Hansen. 1,756,549–50; Apr. 29.
Footwear. J. Benda. 1,756,169; Apr. 29.
Footwear article and method of making, Rubber. H. A. Raymond. 1,756,474; Apr. 29.
Form and mold. J. N. Rauber. 1,756,473; Apr. 29.
Form clamp. H. H. Lampert. 1,756,691; Apr. 29.
Form spacer, Electric-weld. W. A. Ferris. 1,756,187; Apr. 29.
Forming and assembling machine and process. J. E. Gunter. 1,756,427; Apr. 29.
Forming means for composite columns and the like. E. B. Dowd. 1,756,542; Apr. 29.
Frame: *See*—
Machine frame. Sign-supporting frame.
Frame construction. E. O. Schjolin. 1,756,918; Apr. 29.
Frame for spring-cushion seats, Base. A. C. Wisner. 1,756,579; Apr. 29.
Freezing apparatus. L. S. Plouts. 1,756,261; Apr. 29.

Fuel-burning apparatus, Pulverised-. B. J. Cross. 1,756,321; Apr. 29.
Fuel, Method of and apparatus for burning solid. F. Novelli. 1,756,096; Apr. 29.
Fumigating device. C. C. Winchester. 1,756,414; Apr. 29.
Furnace: *See*—
Open-hearth furnace.
Furnace. A. F. Hall. 1,756,485; Apr. 29.
Furnace. H. J. Kerr. 1,756,755; Apr. 29.
Furnace. S. J. A. Wiebe. 1,756,320; Apr. 29.
Furnace-charging conveyer. A. R. McArthur. 1,756,653; Apr. 29.
Furnace grate-bar construction. H. W. Neal. 1,756,697; Apr. 29.
Furnaces, Material conveyer for. F. T. Cope. 1,756,584; Apr. 29.
Fuse devices, Inspection and venting means for electric. F. A. Feldkamp. 1,756,022; Apr. 29.
Fuse, Expulsion. J. F. Dohrwardt. 1,756,855; Apr. 29.
Game. J. C. Owens. 1,756,299; Apr. 29.
Gas and oil separator. H. D. Gray, E. Auxter, and J. A. Noble, sr. 1,756,288; Apr. 29.
Gas burner, Water-heater. R. C. Hoyt. 1,756,748; Apr. 29.
Gas-burning apparatus. G. C. Carnahan. 1,756,280; Apr. 29.
Gas detectors, Head for. J. K. Mabbs. 1,756,794; Apr. 29.
Gas detectors, Head for. J. K. Mabbs and H. C. Stelling. 1,756,793; Apr. 29.
Gas heater. A. L. Spangler. Des. 81,078; Apr. 29.
Gas lifts, Elevated central header for. H. C. Marshall. 1,756,830; Apr. 29.
Gases of internal-combustion engines, Method and apparatus for utilizing exhaust. J. Bilsky. 1,756,897; Apr. 29.
Gauge: *See*—
Boiler gauge.
Gauge-glass fitting. G. Ernst. 1,756,184; Apr. 29.
Gear for aeroplanes, Landing. H. H. Phillips. 1,756,209; Apr. 29.
Gear for use with lowering apparatus, Releasing. L. H. Robinson. 1,756,213; Apr. 29.
Gear mechanism, Reversing-. C. C. Bertram. 1,756,334; 29.
Gearing, Five-speed transmission. C. W. Jarrett and G. H. Skerritt. 1,756,123; Apr. 29.
Gelatin-sheet copying machine. W. E. Williams. 1,756,578; Apr. 29.
Generator: *See*—
Fuid generator. Oscillation generator.
Glass, Apparatus for delivering molten. K. E. Peiler. 1,756,492; Apr. 29.
Glass, Feeding molten. K. E. Peiler. 1,756,493; Apr. 29.
Glassware, Apparatus for annealing. G. E. Howard. 1,756,244; Apr. 29.
Glassware, Method of and apparatus for making hollow blown. R. W. Canfield. 1,756,813; Apr. 29.
Glassware-shaping machines, Multiple press head for. C. S. Budd. 1,756,728; Apr. 29.
Glove, Fielder's. E. Nolte. 1,756,377; Apr. 29.
Glue product. G. Palme. 1,756,382; Apr. 29.
Golf-club carrier. E. C. Boyce. 1,756,902; Apr. 29.
Golf putter. W. C. Spiker. 1,756,219; Apr. 29.
Grain-cleaning process and machine. T. E. Forster. 1,756,246; Apr. 29.
Grain-heading machine. E. J. Hale. 1,756,788; Apr. 29.
Grasping device. M. W. Smith. 1,756,441; Apr. 29.
Grate and pallet structure. E. W. Shallock. 1,756,037; Apr. 29.
Grate, Chain. W. M. Duncan. 1,756,020; Apr. 29.
Grate for stoves and the like. M. R. Porter. 1,756,384; Apr. 29.
Grater, Vegetable. J. A. Andrusis. 1,756,779; Apr. 29.
Grease feeder. W. L. Morris. 1,756,857; Apr. 29.
Grinding apparatus. M. Tuttle. 1,756,710; Apr. 29.
Grinding machine. W. J. Baumberger. 1,756,908; Apr. 29.
Grinding wheel. T. F. Emminger. 1,756,734; Apr. 29.
Gripping device for oil cans and the like. E. R. Petrie. 1,756,165; Apr. 29.
Guide device for multiple stands, Adjustable. C. A. Dreisbach. 1,756,636; Apr. 29.
Gun-sight mounting. R. Noske. 1,756,603; Apr. 29.
Hair and wool with chlorine, Treating animal. E. Bohm. 1,756,723; Apr. 29.
Hair-permanent-waving apparatus. H. Bonat. 1,756,451; Apr. 29.
Hair-waving apparatus, Permanent-. H. Hanover. 1,756,740; Apr. 29.
Hair-waving equipment. W. G. Shelton. 1,756,837; Apr. 29.
Hand bag. L. A. Samstag. 1,756,764; Apr. 29.
Hand bag, Lady's novelty. T. G. Williams. 1,756,048; Apr. 29.
Handle-adjusting means. C. S. Trippeda and A. J. Dichiaro. 1,756,801; Apr. 29.
Handlebar for bicycles, motor bicycles, and the like vehicles, Adjustable. C. E. Broberg. 1,756,339; Apr. 29.
Handle for flowerpots and saucers. H. P. Hanson. 1,756,461; Apr. 29.
Hanger: *See*—
Pants hanger.
Hanger and stretcher, Garment. H. E. Staley. 1,756,221; Apr. 29.
Harness. L. Schroeder. 1,756,886; Apr. 29.
Harrow, Spike-tooth. C. Gaubatz. 1,756,820; Apr. 29.
Hat bodies and similar materials, Apparatus for dyeing. K. F. Kraney. 1,756,599; Apr. 29.
Heat-absorbing means for sheet-glass apparatus. J. A. Reece. 1,756,798; Apr. 29.
Heat indicator, Motor. A. B. Schupp. 1,756,070; Apr. 29.
Heat regulator. F. B. Harris. 1,756,828; Apr. 29.
Heater. W. J. Gamble, A. E. Stacey, jr., and W. B. Thornton. 1,756,787; Apr. 29.
Heater for poultry houses and analogous purposes. J. B. Olson and R. E. Young. 1,756,879; Apr. 29.
Heating device. M. E. Nordan. 1,756,033; Apr. 29.
Heating means, Electric. R. von Brockdorff. 1,756,444; Apr. 29.
Heddle-handling mechanism. H. D. Colman. 1,756,814; Apr. 29.
Heel. W. B. Forrester. 1,756,456; Apr. 29.
Heel-attaching machine. F. H. Pochin. 1,756,134; Apr. 29.
Heel pad. T. Tanigawa. 1,756,107; Apr. 29.
Helmet, Aviator's. F. F. Heater. Des. 81055; Apr. 29.
Hickey and mounting therefor. A. Liebowitz. 1,756,159; Apr. 29.
Hide-stretching device. C. Slebodnik. 1,756,103; Apr. 29.
Hinge, Ball-bearing swing. N. H. and J. J. Wilke. 1,756,413; Apr. 29.
Hitch for agricultural implements. E. F. Ramseier. 1,756,305; Apr. 29.
Hoist, Chain. F. L. Gormley. 1,756,459; Apr. 29.
Holder, Card. J. V. Schafer. 1,756,885; Apr. 29.
Holder, Collapsible book. L. E. Stackpole. 1,756,220; Apr. 29.
Holder, Electrode. C. H. Hollup. 1,756,556; Apr. 29.
Holder, Magazine and clip. C. J. Cook. 1,756,677; Apr. 29.
Holder, Tooth brush and paste. L. Szakács. 1,756,142; Apr. 29.
Holder, Work. H. E. Kempton, K. F. Gallimore, and R. M. Woytych. 1,756,124; Apr. 29.
Holder, Wreath. R. Burns. Des. 81,049; Apr. 29.
Homogenizing machine. G. C. Hurrell. 1,756,198; Apr. 29.
Hose, Safety gasoline. J. M. Oden. 1,756,698; Apr. 29.
Hosiery press. B. J. Yanchenko. 1,756,498; Apr. 29.
Hospital equipment. L. A. Chambers. 1,756,238; Apr. 29.
House: *See*—
Toy house.
Hydraulic brake. C. E. Jack. 1,756,904; Apr. 29.
Hydrocarbons, Cracking. L. Link. 1,756,563; Apr. 29.
Hydrocarbons, Producing lower-boiling-point. C. P. Dubbs. 1,756,019; Apr. 29.
Ice-cream freezer. B. D. Gilson. 1,756,683; Apr. 29.
Ice-cream shipper, Rubber. S. O. Staake. 1,756,030; Apr. 29.
Ice in transit, Protector for. O. Strufe. 1,756,706; Apr. 29.
Ignition device for oil burners. H. F. Rodier. 1,756,806; Apr. 29.
Ignition for oil burners, Electric-. A. P. Holden and P. Morgan. 1,756,686; Apr. 29.
Incinerator. F. X. Enderle. Des. 81,053; Apr. 29.
Index, Card. G. H. Dawson. 1,756,852; Apr. 29.
Index, device. J. H. Rand. 1,756,880; Apr. 29.
Index or file. W. H. Day. 1,756,853; Apr. 29.
Index or record device. J. H. Rand, jr., and L. C. Broecker. 1,756,879; Apr. 29.
Indicator: *See*—
Flow indicator. Liquid-level indicator.
Heat indicator.
Inking mechanism for printing presses. L. A. Schmidt. 1,756,308; Apr. 29.
Installation, Turbogenerator. G. B. Warren. 1,756,894; Apr. 29.
Insulator, Strain. S. S. Matthes. 1,756,651; Apr. 29.
Internal-combustion engine. G. Anderson. 1,756,621; Apr. 29.
Internal-combustion engine. A. Craigon. 1,756,538; Apr. 29.
Internal-combustion engine. H. J. Kline. 1,756,029; Apr. 29.
Iron: *See*—
Marceling iron.
Iron smelting. R. Franchot. 1,756,349; Apr. 29.
Jack: *See*—
Pump jack. Pumping jack.
Joint: *See*—
Cable joint. Rail joint.
Joint bar and blank, Bulldozed compromise. D. L. Braine. 1,756,338; Apr. 29.
Juice extractor. F. H. Kreuter. 1,756,250; Apr. 29.
Key case. J. Brewer. 1,756,627; Apr. 29.
Kneading and mixing machine, particularly for pastelike goods. F. Aeschbach. 1,756,078; Apr. 29.
Lacquer. D. J. Tight. 1,756,528; Apr. 29.
Lamp, Incandescent electric. W. L. Cummings. 1,756,679; Apr. 29.
Lamp, Portable electric. J. Downs. 1,756,733; Apr. 29.
Lampblack, Producing. A. J. Paris, jr. 1,756,877; Apr. 29.
Last. E. W. Durkee. 1,756,587; Apr. 29.
Latch, Coach. J. B. Flynn. 1,756,117; Apr. 29.
Latch mechanism. J. Ledwinka. 1,756,202; Apr. 29.
Latch release, Power-dipper door-. L. R. Culver. 1,756,284; Apr. 29.

Latching device. G. P. Wild. 1,756,718; Apr. 29.
Laundry drier. B. Knutsen. 1,756,366; Apr. 29.
Laundry, Method of and machine for drying and bleaching. C. Groen. 1,756,621; Apr. 29.
Lavatory and closet, Combination. W. R. Dennis and E. J. Bachr. 1,756,635; Apr. 29.
Lawn sprinkler. M. E. Estep. 1,756,483; Apr. 29.
Lifter: *See*—
Basket lifter.
Lifting and transferring device. J. A. Wiener. 1,756,614; Apr. 29.
Light: *See*—
Post light.
Light-sensitive materials and making them. M. P. Schmidt and W. Krieger. 1,756,400; Apr. 29.
Lighter, Automatic gas-stove. G. Ruggiero and J. De Cesare. 1,756,763; Apr. 29.
Lighter, Cigar. A. F. Jackson. 1,756,013; Apr. 29.
Lighting fixture. R. W. Schweiker. 1,756,309; Apr. 29.
Lighting fixture, Electric-. E. B. Wilson. 1,756,774; Apr. 29.
Lining, Coat. B. Kaplan and L. Rosenberg. 1,756,829; Apr. 29.
Liquid-level indicator. T. M. Eynon. 1,756,347; Apr. 29.
Liquid treatment. A. S. Behrman. 1,756,275; Apr. 29.
Liquids, Material for use in treatment of. C. A. Miketta. 1,756,906; Apr. 29.
Liquids, Separator for the treatment of mixtures of mutually-insoluble. H. J. Holford. 1,756,862; Apr. 29.
Lock: *See*—
Panic exit lock.
Lock. J. Carlin. 1,756,342; Apr. 29.
Locking mechanism E. L. Dunn. 1,756,345; Apr. 29.
Locomotive-bumper bracket. J. G. Blunt. 1,756,480; Apr. 29.
Locomotive consisting of two vehicles provided with separate groups of wheels. E. O. Eriksson. 1,756,588; Apr. 29.
Logs, Seasoning. O. A. Bartholomew. 1,756,477; Apr. 29.
Lollipop machine. M. Million. 1,756,375; Apr. 29.
Loom attachment. H. K. Martin. 1,756,093; Apr. 29.
Loom dobby, Two-weave. A. A. Gordon. 1,756,590; Apr. 29.
Loom temple. H. J. Myers. 1,756,520; Apr. 29.
Looms, Combined filling and warp stop motion for. J. Regan. 1,756,606; Apr. 29.
Looms, Controlling weft ends in automatic. R. G. Turner. 1,756,709; Apr. 29.
Looms, Protector mechanism for. R. G. Turner. 1,756,610; Apr. 29.
Looms, Warp stop motion for. W. H. Wakefield. 1,756,611; Apr. 29.
Loud-speaker. J. E. Kiernan. 1,756,201; Apr. 29.
Loud-speaker unit. M. K. Kuchinsky. 1,756,791; Apr. 29.
Lubricator: *See*—
Wheel-flange lubricator.
Lure carrier for races. J. F. White. 1,756,044; Apr. 29.
Machine bearings, Cooling arrangement for. P. Suter. 1,756,402; Apr. 29.
Machine for coring cabbages or the like. I. G. Sharpe. 1,756,262; Apr. 29.
Machine for fabricating spring structures. D. T. Owen. 1,756,434; Apr. 29.
Machine for filling and capping bottles. S. C. Bond. 1,756,114; Apr. 29.
Machine for grinding or cutting toothed gear wheels or other analogous objects. A. H. Orcutt and J. W. Snarry. 1,756,876; Apr. 29.
Machine for milling ornamental grooves in buttons and the like, Automatic. A. G. L. G. M. Miche de Malleray. 1,756,873; Apr. 29.
Machine for use as mechanical toys and other purposes. M. J. Reider. 1,756,608; Apr. 29.
Machine frame. G. T. Bonk. 1,756,337; Apr. 29.
Mail box, house number, knocker, and light therefor, Combined. E. J. Knapp. 1,756,559; Apr. 29.
Manifold. E. S. MacPherson. 1,756,161; Apr. 29.
Manifold, Exhaust. W. B. Jupp. 1,756,465; Apr. 29.
Manifold, Refrigerant-compressor control. J. C. Scovel, jr. 1,756,571; Apr. 29.
Marceling iron. N. Stone. 1,756,104; Apr. 29.
Marking and gauging device. G. N. Gordon. 1,756,087; Apr. 29.
Marking device. F. W. Spellmeyer. 1,756,141; Apr. 29.
Marking machine. D. E. Harding. 1,756,163; Apr. 29.
Mat: *See*—
Rubber mat.
Mats for use in making printing plates, Preparing. E. Martin. 1,756,564; Apr. 29.
Match case, Self-feeding. J. F. Marx. 1,756,127; Apr. 29.
Materials, Coating. L. Weisberg and R. B. Stevens. 1,756,772; Apr. 29.
Materials, Device for reducing. H. G. Lykken. 1,756,253; Apr. 29.
Measuring and dispensing apparatus, Liquid. M. J. Crawford. 1,756,085; Apr. 29.
Measuring and dispensing can, Oil. V. Paone. 1,756,470; Apr. 29.
Measuring device, Viscosity-. R. J. Haug. 1,756,120; Apr. 29.
Measuring instrument, Optical. G. B. Gallasch. 1,756,785; Apr. 29.
Measuring machine. H. A. Ballard. 1,756,081; Apr. 29.
Meat-washing machine. F. A. Knight and C. E. Rowe. 1,756,517; Apr. 29.
Mercury arc rectifier. C. Krämer. 1,756,868; Apr. 29.
Metal composition and making the same, Hard-. E. G. Gilson. 1,756,867; Apr. 29.
Metal pickling. J. C. Vignos. 1,756,317; Apr. 29.
Metal sheets, Making. B. F. Hopkins and J. V. O. Palm. 1,756,196; Apr. 29.
Metal surfacing to hard-metal plates, Apparatus for applying a soft. A. Gunthard. 1,756,739; Apr. 29.
Metal, Utilizing bundled scrap. F. Wüst. 1,756,049; Apr. 29.
Metals, Cleaning. W. L. Semon. 1,756,311; Apr. 29.
Metallic bellows. C. L. Lee. 1,756,911; Apr. 29.
Metallic coupling, Flexible. C. W. McGuirk. 1,756,094; Apr. 29.
Metatarsal-pad locator. J. L. Barth. 1,756,780; Apr. 29.
Milk-cooling device. H. Clevenger. 1,756,536; Apr. 29.
Milling machine. N. M. Marsillus. 1,756,831; Apr. 29.
Minnow, Artificial. C. T. Pflueger. 1,756,260; Apr. 29.
Mixer: *See*—
Concrete mixer.
Mixing, dissolving, or similar apparatus. H. S. Beers. 1,756,236; Apr. 29.
Mold: *See*—
Brick mold.
Mold. W. P. Voth. 1,756,265–6; Apr. 29.
Molding, Dry. W. B. Wescott. 1,756,411; Apr. 29.
Molding machine. J. R. Wood. 1,756,776; Apr. 29.
Molten liquid, coats of enamel, glass, and the like by spraying upon metal, stone, or other surfaces or bodies, Apparatus for the production of. A. Pahl. 1,756,331; Apr. 29.
Mortar shell. R. J. Anderson. 1,756,079; Apr. 29.
Motor: *See*—
Distortion motor. Spring motor.
Pneumatic motor. Synchronous motor.
Servo-motor.
Motor base, Adjustable. J. T. Hulsey. 1,756,515; Apr. 29.
Motor-control system. E. W. Seeger. 1,756,572; Apr. 29.
Motor coupling, Synchronous. C. F. Jenkins. 1,756,689; Apr. 29.
Motors, System of speed control for induction. E. Reimann. 1,756,925; Apr. 29.
Mounting for abrasive wheels or the like. G. W. Perks. 1,756,259; Apr. 29.
Mounting for gas-detecting apparatus, Filament. W. F. Hunt. 1,756,749; Apr. 29.
Mounting for weft detectors. C. P. Bergstrom. 1,756,581; Apr. 29.
Mounting, Outlet-box. C. A. Johnson. 1,756,361; Apr. 29.
Mowers, Weed-topping attachment for lawn. F. C. J. Dursch. 1,756,346; Apr. 29.
Muffler. S. A. Stranahan. 1,756,916; Apr. 29.
Muffler for internal-combustion engines. H. E. Van Voorhees. 1,756,711; Apr. 29.
Name plate, Interchangeable. O. Hansen. 1,756,547; Apr. 29.
Nickel-copper matte, Refining. F. E. Lathe. 1,756,092; Apr. 29.
Nut-fastening installation. F. S. Carr. 1,756,631; Apr. 29.
Nut-meat product and producing same. J. L. Rosenfield. 1,756,702; Apr. 29.
Objects consisting of refractory, insulating, abrasive, or like substances, Manufacture of. M. Fourment. 1,756,457; Apr. 29.
Oil burner. G. E. Tiller. 1,756,226; Apr. 29.
Oil-burning apparatus. G. D. Sundstrand. 1,756,707; Apr. 29.
Oil-cracking process. A. Schwarz. 1,756,887; Apr. 29.
Oil, Treating. C. P. Dubbs. 1,756,018; Apr. 29.
Oils, Manufacture of lubricating. E. C. Herthel and H. L. Pelzer. 1,756,153; Apr. 29.
Oils, Refining. L. C. Huff. 1,756,026; Apr. 29.
Oils, Refining hydrocarbon. E. C. Herthel and H. L. Pelzer. 1,756,154; Apr. 29.
Oils, Refining hydrocarbon. E. C. Herthel and H. L. Pelzer. 1,756,156; Apr. 29.
Oils, Refining hydrocarbon. E. C. Herthel, H. L. Pelzer, and J. G. Stafford. 1,756,155; Apr. 29.
Open-hearth furnace. W. Gast. 1,756,484; Apr. 29.
Ophthalmic table. G. A. Gallowits. 1,756,024; Apr. 29.
Ornament, Automobile radiator-cap. S. H. Waddingham. Des. 81,080; Apr. 29.
Ornamentation, Surface. J. J. Weber. Re17,654; Apr. 29.
Oscillating engine. J. Bergesen, sr. 1,756,017; Apr. 29.
Oscillation generator. R. S. Ohl. 1,756,130; Apr. 29.
Oscillation generator, High-frequency-. R. S. Ohl. 1,756,131–2; Apr. 29.
Outlet device, Electrical. H. E. Slade. 1,756,704; Apr. 29.
Oven, Coking retort. J. Becker. 1,756,285; Apr. 29.
Ovens, Heat control for bake. A. Oberhelm. 1,756,604; Apr. 29.
Packing material. H. Reinz. 1,756,881; Apr. 29.
Pad: *See*—
Heel pad. Shoulder pad.
Pad for football players, Combined hip and kidney. W. A. Ingram. 1,756,858; Apr. 29.
Pan: *See*—
Scale pan. Vacuum pan.
Panic-exit lock. J. O. Soemer. 1,756,667; Apr. 29.
Pants hanger. C. T. Batts. 1,756,533; Apr. 29.
Paper with insoluble dyes and resulting product, Making colored crepe. G. R. Alden. 1,756,778; Apr. 29.

Patch, Inner-tube. C. E. Dunlap. 1,756,183; Apr. 29.
Percolator. A. D. Olds. Des. 81,063–4; Apr. 29.
Phenate, Manufacture of. W. H. Williams and E. C. Britton. 1,756,110; Apr. 29.
Photographic printing. F. E. Garbutt. 1,756,426; Apr. 29.
Photographic sound recording and reproducing, Process and apparatus for. J. Engl, H. Vogt, and J. Massolle. 1,756,681; Apr. 29.
Pick-up switch, Automatically-operated. W. F. Cotter. 1,756,815; Apr. 29.
Picture-transmission system. M. Kagelmann and A. Eulenböfer. 1,756,363; Apr. 29.
Pile-forming machine, Zigzag-. W. H. Smith. 1,756,392; Apr. 29.
Pin: *See*—
Wrist pin.
Pipe. E. Lucas. 1,756,695; Apr. 29.
Pipe connecter, Steam-. G. D. Sprankle. 1,756,668; Apr. 29.
Pipe coupling. H. Woodhead. 1,756,417; Apr. 29.
Pipes, Electrically-welding. C. M. Thomson. 1,756,403; Apr. 29.
Pipes or rods, Device adapted to be screwed onto. H. W. Avery. 1,756,167; Apr. 29.
Pistol, Automatic. V. Bourth. 1,756,847; Apr. 29.
Pistol for discharging signal cartridges. S. Wiley. 1,756,271; Apr. 29.
Piston. L. J. Thomas. 1,756,768; Apr. 29.
Piston and connecting rod. A. E. Reid. 1,756,211; Apr. 29.
Piston and connecting rod. A. E. Reid. 1,756,761; Apr. 29.
Piston-cooling device for internal-combustion engines. I. Funke. 1,756,735; Apr. 29.
Piston for internal-combustion engines. C. Schaeffer. 1,756,884; Apr. 29.
Piston for oil pumps, Fluid-expanded. J. F. Mitchell. 1,756,795; Apr. 29.
Piston ring. A. W. Morton. 1,756,905; Apr. 29.
Pivot, Shuttle-spindle. F. Robinson. 1,756,494; Apr. 29.
Plasticizers from celluloid and the like, Recovering volatile. H. P. Bassett. 1,756,331; Apr. 29.
Plug for tobacco pipes. R. H. Tickell. 1,756,890; Apr. 29.
Plugs and the like, Apparatus for molding. C. M. Hart. 1,756,193; Apr. 29.
Pneumatic apparatus for producing mats or bats of fibrous materials. C. G. Moller. 1,756,468; Apr. 29.
Pneumatic motor. H. Rowntree. 1,756,307; Apr. 29.
Pocket for garments. C. E. Sahlstrom. 1,756,138; Apr. 29.
Pocket, Theftproof. B. Mayer. 1,756,467; Apr. 29.
Post construction, Fabricated newel-. H. Felsenthal. 1,756,023; Apr. 29.
Post light. G. W. Aldeen and E. W. North. 1,756,531; Apr. 29.
Potential apparatus, Constant. V. Bush. 1,756,628; Apr. 29.
Powder puff and cleanser, Combination. J. T. Walker and H. O. Weitlich. 1,756,408; Apr. 29.
Powder puffs and container therefor, Combined set. J. J. Cosin. Des. 81,050; Apr. 29.
Preservatives in treatment of timber, Recovery of surplus. R. H. Rawson. 1,756,797; Apr. 29.
Preserving eggs, and the yolks and whites thereof. J. Fousek. 1,756,188–9; Apr. 29.
Press: *See*—
Hosiery press.
Presser-foot mechanism for sewing machines. F. Ashworth. 1,756,502; Apr. 29.
Pressing machine. E. E. Clements. 1,756,452; Apr. 29.
Printing-press delivery. B. F. Upham. 1,756,405; Apr. 29.
Processing apparatus. W. L. Conrad. 1,756,240; Apr. 29.
Pulley. F. G. Harrison. 1,756,592; Apr. 29.
Pulley, Sash. F. C. Andersen and C. P. Bird. 1,756,719–20; Apr. 29.
Pulley, Sash. H. F. Peterson and C. P. Bird. 1,756,759; Apr. 29.
Pulp, Process and machine for thickening. A. J. Haug. 1,756,194; Apr. 29.
Pulp product and making the same. R. B. Arnold and R. M. Hixon. 1,756,722; Apr. 29.
Pump, Centrifugal. E. R. Wilfley. 1,756,323–4; Apr. 29.
Pump for power units, Circulating. J. S. Oechsle. 1,756,207; Apr. 29.
Pump, Fuel. C. R. Alden. 1,756,145; Apr. 29.
Pump jack. L. G. Nordstrom. 1,756,098; Apr. 29.
Pump, Rotary gas. I. C. Jennings. 1,756,594; Apr. 29.
Pump, Suction. W. G. Cumming. 1,756,678; Apr. 29.
Pumping apparatus, Duplex wet vacuum. I. C. Jennings. 1,756,595; Apr. 29.
Pumping jack, Long-stroke. J. S. Hunter. 1,756,089; Apr. 29.
Punching. C. A. Gill and F. J. Gey, jr. 1,756,119; Apr. 29.
Racing apparatus, Dog-. L. E. Mitchell, J. L. Connors, and S. M. Pineles. 1,756,065; Apr. 29.
Racing lure, Animal-. J. F. White. 1,756,015; Apr. 29.
Radio apparatus. E. E. Hobbs. 1,756,745; Apr. 29.
Rail brace, Guard-. A. H. Weston. 1,756,842; Apr. 29.
Rail joint, Railway-. S. H. Griffiths. 1,756,859; Apr. 29.
Rails, Splicing structure for canted. V. C. Armstrong. 1,756,330; Apr. 29.
Range. W. A. Busiek. 1,756,179; Apr. 29.
Rattle with sound-making attachment. A. Zadek. 1,756,077; Apr. 29.
Rayon, Method of and apparatus for preparing. L. A. Paley. 1,756,435; Apr. 29.
Razor, Safety. J. Schick. 1,756,439; Apr. 29.
Razor, Safety. A. A. Theodoropulos. 1,756,224; Apr. 29.
Reamer and drill, Expansive. J. J. Santiago. 1,756,524; Apr. 29.
Receptacle, Combination sink and garbage. C. G. Hibner. 1,756,290; Apr. 29.
Receptacle, Cosmetic. W. E. Wacker. 1,756,042; Apr. 29.
Reel: *See*—
Wire reel.
Reflector. M. W. Caughlan. 1,756,084; Apr. 29.
Reflector for rays emitted by a luminous source. J. L. Pech. 1,756,301; Apr. 29.
Refrigerating machine, Absorption. G. Ferguson. 1,756,148; Apr. 29.
Register: *See*—
Autographic register. Cash register.
Regulating system. V. M. Montsinger. 1,756,875; Apr. 29.
Regulator: *See*—
Heat regulator.
Regulator system. H. M. Stoller and G. C. Porter. 1,756,573; Apr. 29.
Resin and making same, Phthalic-urea. B. N. Lougovoy. 1,756,251; Apr. 29.
Resinous product, shellac substitute, etc., and making same. C. Ellis and J. V. Meigs. 1,756,819; Apr. 29.
Resistor and making same. S. Loewe. 1,756,368; Apr. 29.
Retort structure. E. G. Blackwell. 1,756,170; Apr. 29.
Rheostat tank fitting assembly. M. E. Cheney. 1,756,535; Apr. 29.
Ring: *See*—
Bead-setting ring. Piston ring.
Road-grading device. H. R. Andrew. 1,756,329; Apr. 29.
Roads, Building. K. Dammann. 1,756,344; Apr. 29.
Rod: *See*—
Piston and connecting rod. Welding rod.
Rod for oil-well pumping, Polished. S. B. Merrick. 1,756,205; Apr. 29.
Rod or wire drawing block. F. H. Nullmeyer. 1,756,206; Apr. 29.
Roller: *See*—
Curtain roller.
Roofing material. N. P. Harshberger. 1,756,743; Apr. 29.
Rubber and paper and product obtained thereby, Production of combinations of. R. P. Rose and H. E. Cude. 1,756,035; Apr. 29.
Rubber mat. G. S. Osborn. 1,756,380; Apr. 29.
Rubber, Method and apparatus for plying up. C. L. Foutz. 1,756,059; Apr. 29.
Rubber-vulcanization process. W. P. ter Horst. 1,756,315; Apr. 29.
Rubber, Vulcanizing. W. Scott. 1,756,310; Apr. 29.
Rug-hanging apparatus. E. B. Horne. 1,756,642; Apr. 29.
Safety attachment for vehicle wheels. B. Reynolds. 1,756,212; Apr. 29.
Safety device, Drawbar-key. E. R. Viberg. 1,756,406; Apr. 29.
Safety device for elevators. C. G. Luehrman. 1,756,870; Apr. 29.
Safety device for washing machines. A. R. Curtis. 1,756,181; Apr. 29.
Sash-position-indicating device. W. Roy. 1,756,912; Apr. 29.
Saw, Power. H. F. Thompson. 1,756,527; Apr. 29.
Sawing machine, Wood-. P. G. Freshwater and O. G. Fishel. 1,756,287; Apr. 29.
Scale pan. R. A. Kopp. 1,756,292; Apr. 29.
Scarfing machine. W. S. Griffith and E. H. Hathaway. 1,756,640; Apr. 29.
Scenic display device. C. B. and H. P. Maurer. 1,756,565; Apr. 29.
Scoop, Container-charging ice-cream. E. M. Story. 1,756,609; Apr. 29.
Screen: *See*—
Fly screen. Window screen.
Voice screen.
Screen and shield, Conductive. E. O. Selby. 1,756,888; Apr. 29.
Screen device, Window-. W. Turner. 1,756,229; Apr. 29.
Screen for automobile windows and the like. J. Torrent. 1,756,227; Apr. 29.
Screw eyes, Mechanism for collecting and feeding. D. E. Priest. 1,756,605; Apr. 29.
Screw eyes, Mechanism for feeding. A. M. Ohan. 1,756,658; Apr. 29.
Screw stud, Resilient. P. E. Fenton. 1,756,186; Apr. 29.
Seat: *See*—
Automobile seat. Folding seat.
Auxiliary seat. Vehicle seat.
Seat assembly. J. H. Clark. 1,756,147; Apr. 29.
Seat construction, Automobile. C. F. Hess. 1,756,825; Apr. 29.
Seeds to secure uniform germination, Treating. J. L. Kellogg. 1,756,488; Apr. 29.
Separator: *See*—
Gas and oil separator.
Servo-motor. C. H. Fuller. 1,756,910; Apr. 29.
Sewing machine. C. Seaman and G. Braf. 1,756,036; Apr. 29.
Sewing machine, Rotary-hook. W. N. Parkes. 1,756,699; Apr. 29.

Sewing machines, Thread-controlling mechanism for. J. R. Moffatt. 1,756,655; Apr. 29.
Sharpening device for lawn mowers, Blade. K. Minami. 1,756,162; Apr. 29.
Sharpening device, Saw-. J. R. Stowell. 1,756,399; Apr. 29.
Shaving implement. G. F. Greene. 1,756,639; Apr. 29.
Shearing machine, Flash-. H. Tormyn. 1,756,918; Apr. 29.
Sheet-feeding means. G. W. Swift, jr. 1,756,073; Apr. 29.
Sheet-metal cutter. H. Junkers. 1,756,862; Apr. 29.
Shield, Expansion. L. R. Zifferer. 1,756,419; Apr. 29.
Shim for brake linings, Repair. S. A. Gruber. 1,756,353; Apr. 29.
Shingle. N. P. and R. P. Harshberger. 1,756,742; Apr. 29.
Shingle, Composition. N. P. and R. P. Harshberger. 1,756,741; Apr. 29.
Shingle support, Eave. A. Audet. 1,756,476; Apr. 29.
Shingles and the like, Treating. J. A. McKercher. 1,756,373; Apr. 29.
Shoe and making the same. E. Brenner. 1,756,083; Apr. 29.
Shoe-heel-setting device. W. A. Thum. 1,756,708; Apr. 29.
Shoe parts, Method of and apparatus for assembling. C. M. Richardson. 1,756,438; Apr. 29.
Shoe-shank supporter. J. R. McGrail. 1,756,872; Apr. 29.
Shoe strap. F. A. Ballou. 1,756,505; Apr. 29.
Shoe strap, F. A. Ballou and R. T. Stafford. 1,756,506; Apr. 29.
Shoulder pad. O. S. Colbentson. 1,756,676; Apr. 29.
Shuttle for weft-replenishing looms. F. E. Ashton. 1,756,622; Apr. 29.
Shuttle, Self-threading. W. H. Wakefield. 1,756,612; Apr. 29.
Sight, Rear. J. L. Hatcher. 1,756,685; Apr. 29.
Sign, Moving display. L. R. Ports. 1,756,523; Apr. 29.
Sign-supporting frame. C. Schneider. 1,756,389; Apr. 29.
Sign, tablet, or the like for day and night display. G. Lindsey. 1,756,203; Apr. 29.
Sign using reflected light, Advertising. J. Hutton and J. Bacon. 1,756,090; Apr. 29.
Signal: *See*—
Traffic signal.
Signal. J. B. Maples. 1,756,126; Apr. 29.
Signaling system. C. L. Davis. 1,756,086; Apr. 29.
Signaling system for automobiles. M. G. Torson. 1,756,108; Apr. 29.
Silicates, Preparing metallo-. A. S. Behrman. 1,756,625; Apr. 29.
Silencer. R. B. Bourne. 1,756,626; Apr. 29.
Silencer. H. P. Maxim and R. B. Bourne. 1,756,297; Apr. 29.
Sled. R. M. G. Phillips. 1,756,303; Apr. 29.
Slice receiver. J. Folk. 1,756,348; Apr. 29.
Slice receiver and collector. J. Folk. 1,756,424; Apr. 29.
Slices, Mechanism for assembling. J. Folk. 1,756,544; Apr. 29.
Slicing machine. E. Bredow. 1,756,237; Apr. 29
Slicing machines, Slice collector for. J. Folk. 1,756,149; Apr. 29.
Smoke consumer. J. Sabol. 1,756,663; Apr. 29.
Smoker's article. D. Salvati and H. Le Quornik. 1,756,836; Apr. 29.
Soap dish, Rubber-sponge. W. Vernet. 1,756,713; Apr. 29.
Socket, Electric. W. Lindsay. 1,756,562; Apr. 29.
Sole rounding or trimming and channeling machine. M. T. Denne. 1,756,116; Apr. 29.
Solvent for cellulose nitrate. J. P. Trickey. 1,756,228; Apr. 29.
Sound, Apparatus for producing. E. C. Guedon. 1,756,860; Apr. 29.
Sound-reproducing apparatus. Le R. W. Staunton. 1,756,838; Apr. 29.
Speed responsive device. C. R. Alden. 1,756,671; Apr. 29.
Sport ball, Inflatable. J. E. Dorward. 1,756,056; Apr. 29.
Spotlight. G. W. Aldeen. 1,756,530; Apr. 29.
Spring: *See*—
Coiled spring.
Spring counterbalance for drill spindles. W. C. De Roo. 1,756,454; Apr. 29.
Spring motor. A. H. Collins. 1,756,783; Apr. 29.
Spring wheel. P. L. Whittenberger. 1,756,270; Apr. 29.
Sprinkler: *See*—
Lawn sprinkler.
Sprinkler. W. H. Coles and B. J. Nelson. 1,756,729; Apr. 29.
Stacking mechanism. P. A. Golinick and G. Harred. 1,756,920; Apr. 29.
Stake, Ground. G. F. Hamilton, R. R. Holzapfel, F. J. Girty, and C. Lawton. 1,756,641; Apr. 29.
Stamp-canceling machine. O. F. Lefebvre. 1,756,647; Apr. 29.
Stand: *See*—
Work stand.
Starter, Engine. J. H. Richards. 1,756,068; Apr. 29.
Stem, Cluster. G. Brown. 1,756,675; Apr. 29.
Stereoscope, Measuring. L. J. R. Holst. 1,756,062; Apr. 29.
Still, Oil. A. C. Vobach and E. C. Herthel. 1,756,407; Apr. 29.
Stocking-protecting footwear. A. A. Theodoropulos. 1,756,525; Apr. 29.
Store front. J. J. Daly. Des. 81,051; Apr. 29.
Store front. Z. S. Osborn. 1,756,099; Apr. 29.
Stove, Electric. C. C. Armstrong. 1,756,721; Apr. 29.
Stove, Oil-burning. C. Siebring. 1,756,391; Apr. 29.
Stovepipe. G. McNee. 1,756,696; Apr. 29.
Strap: *See*—
Shoe strap.
Strap for suitcases, etc. B. H. Shwayder. 1,756,038; Apr. 29.
Submarine cable. J. J. Gilbert. 1,756,546; Apr. 29.
Submarine safety device. V. E., T. J., and O. K. Jorgensen. 1,756,464; Apr. 29.
Suction cleaners, Attachment for. T. J. Moore. 1,756,519; Apr. 29.
Sulphate for plaster, Preparing by-product calcium. R. S. Edwards. 1,756,687; Apr. 29.
Sulphate process, Continuous. W. C. Munro. 1,756,432; Apr. 29.
Support, Article. R. K. Russell. 1,756,883; Apr. 29.
Support, Christmas-tree. J. Block. Des. 81,047; Apr. 29.
Support, Extendible vise. A. W. Campbell. 1,756,629; Apr. 29.
Support, Folding. C. R. Letts. 1,756,792; Apr. 29.
Support for bearings of motor-driven pumps, External. I. C. Jennings. 1,756,645; Apr. 29.
Support for conductors. H. P. Chandler. 1,756,510; Apr. 29.
Support for locomotive air pumps, etc. L. L. Neebe. Re17,652; Apr. 29.
Support for portable power saws. T. L. Hedgpeth. 1,756,121; Apr. 29.
Supporting and delivering viscous glass, Method and apparatus for. O. M. Tucker and W. A. Reeves. 1,756,109; Apr. 29.
Supporting bar. K. H. Whitney. 1,756,716; Apr. 29.
Swimming tube. W. B. Petz. 1,756,383; Apr. 29.
Switch: *See*—
Electromagnetic switch. Time switch.
Pick-up switch. Track switch.
Switch device, Limit-. H. A. Wackerly. 1,756,714; Apr. 29.
Switch-operating apparatus. N. C. Lovell. 1,756,369; Apr. 29.
Switching station, High-potential. H. J. H. Huber and H. Trencham. 1,756,865; Apr. 29.
Switching system, Automatic. A. E. Anderson. 1,756,844; Apr. 29.
Switching system, Automatic. R. A. Fuller. 1,756,903; Apr. 29.
Switching system, Automatic. W. N. Gittings. 1,756,858; Apr. 29.
Switches, Gap detector for railway. R. S. McElhaney. 1,756,601; Apr. 29.
Synchronous motor. C. W. Ebeling. 1,756,055; Apr. 29.
Synthetic product and making same. B. N. Lougovoy. 1,756,252; Apr. 29.
Table: *See*—
Card table. Ophthalmic table.
Extension table.
Tabulator. O. J. Sundstrand. 1,756,401; Apr. 29.
Tag, Identification and price. W. H. Seeley. 1,756,216; Apr. 29.
Tank: *See*—
Vacuum tank.
Teaching device. M. Peelen. 1,756,208; Apr. 29.
Telephone system. W. M. Rosekrans. 1,756,102; Apr. 29.
Telephone trunking system. N. H. Saunders. 1,756,214; Apr. 29.
Television apparatus. J. J. Arnaud. 1,756,232; Apr. 29.
Terminal, Battery. A. H. Walde. 1,756,445; Apr. 29.
Textile fabric. F. W. Bader. Des. 81,046; Apr. 29.
Thermionic tube. V. Bush. 1,756,481; Apr. 29.
Thermometers, Sterile indicating means in sterilising. E. O. Lindberg. 1,756,064; Apr. 29.
Thermostatic device. S. Perry. 1,756,660; Apr. 29.
Thread-cutting machine. F. W. Bommer. 1,756,172; Apr. 29.
Thread, Making rubber. F. W. Bommer. 1,756,171; Apr. 29.
Tie: *See*—
Wall tie.
Tie liner and making the same. J. V. Moore. 1,756,901; Apr. 29.
Timber and the like, Drying or treating. F. W. Cherrington. 1,756,281; Apr. 29.
Timber-handling device. C. E. Doty and O. G. Desch. 1,756,057; Apr. 29.
Time switch, Automatic. B. F. and F. W. Fiegel. 1,756,543; Apr. 29.
Tire and rim construction, Pneumatic-. A. H. Shoemaker. 1,756,665; Apr. 29.
Tire bands, Apparatus for treating. A. O. Abbott, jr. 1,756,529; Apr. 29.
Tires, Signal cap for pneumatic. F. Y. Wynkoop. 1,756,278; Apr. 29.
Toaster, Bread. H. S. Denison. Des. 81,052; Apr. 29.
Toaster, Electric. E. S. Johnson. 1,756,784; Apr. 29.
Toilet material, Manufacturing. T. Hashimoto. 1,756,152; Apr. 29.
Tool and tire carrier, Combined rim. J. A. Plourde and A. J. Tetreault. 1,756,304; Apr. 29.
Tool, Hand. A. Wendt. 1,756,778; Apr. 29.
Tool, Lapping. R. D. Streby. 1,756,014; Apr. 29.
Tool, Percussive. G. H. Gilman. 1,756,190; Apr. 29.
Tool, Run-repairing multiple-needle hand. W. H. Leavin. 1,756,294; Apr. 29.

Tool, Shore-adjusting. G. B. Bosco. 1,756,173; Apr. 29.
Tool, Woodworker's. J. B. Clement. 1,756,851; Apr. 29.
Tool, Writing. C. F. Doebler. 1,756,242; Apr. 29.
Tools, Cutting. H. Klopstock. 1,756,516; Apr. 29.
Tools. Feed finger for machine. J. R. O'Connell. 1,756,258; Apr. 29.
Top for containers, Sprinkler. C. P. Cook. 1,756,422; Apr. 29.
Top for percolators. W. G. Billerman. 1,756,449; Apr. 29.
Top-sealing process. A. J. Weiss. 1,756,409; Apr. 29.
Toy, Air-operated. J. M. Abrams. 1,756,050; Apr. 29.
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Toy gun. A. T. Linney. Des. 81,059; Apr 29.
Toy house. A. Thompson. 1,756,526; Apr. 29.
Track liner. B. S. McClellan. 1,756,372; Apr. 29.
Track switch, Electrically-operated. F. H. Richterkessing. 1,756,700; Apr. 29.
Traffic signal. A. E. Ames. 1,756,144; Apr. 29.
Traffic signaling system. K. W. Mackall. 1,756,490; Apr. 29.
Trailer. P. B. and E. P. Chojnacki. 1,756,239; Apr. 29.
Train-order device. W. T. Boyd. 1,756,848; Apr. 29.
Transmission apparatus. M. T. Voigt. 1,756,576; Apr. 29.
Transmission, Four-speed. P. L. Tenney. 1,756,917; Apr. 29.
Transmission mechanism, Variable-speed power. F. A. Hayes. 1,756,061; Apr. 29.
Transmitter, Cell persistence. C. F. Jenkins. 1,756,201; Apr. 29.
Trap and separator for immiscible liquids. J. B. Maclean. 1,756,869; Apr. 29.
Travel-scope, Illusory. J. G. Boyd. 1,756,175; Apr. 29.
Tray or smoker's stand, Ash. O. Reich. 1,756,760; Apr. 29.
Trees and apparatus therefor, Treating. P. H. Davey, H. L. Jacobs, and J. A. Davey. 1,756,453; Apr. 29.
Trimming machine. P. R. Hoopes. 1,756,826; Apr. 29.
Trolley retriever. P. N. Van Epp. 1,756,074; Apr. 29.
Truck for transporting concrete. E. N. Jones. 1,756,091; Apr. 29.
Truck, Locomotive trailer. C. T. Westlake. Re17,655; Apr. 29.
Truck, Railway. D. S. Barrows. 1,756,168; Apr. 29.
Trunnion joint and the lubrication thereof and of associated parts. J. Bijur. 1,756,335-6; Apr. 29.
Tube: *See*—
Swimming tube. Thermionic tube.
Tube sheet. C. W. Gordon. 1,756,458; Apr. 29.
Tube vulcanizer. A. J. Fleiter, H. C. Bostwick, and T. A. Miller. 1,756,058; Apr. 29.
Tubing drain. W. H. Allen and M. E. Standifer. 1,756,499; Apr. 29.
Tumbler or similar article. J. E. Marsden. Des. 81,061; Apr. 29.
Turbine arrangement, Cruising-. J. F. Metten. 1,756,298; Apr. 29.
Turbine, Gas. S. Abrahams. 1,756,446; Apr. 29.
Turbines and the like, Emergency governing mechanism for elastic-fluid. R. J. Caughey. 1,756,850; Apr. 29.
Typewriters, etc., Paper-roll adjustment for. C. W. Jeffries. 1,756,753; Apr. 29.
Typewriting machine. W. F. Helmond. 1,756,513; Apr. 29.
Typewriting machine. C. E. Norin. 1,756,433; Apr. 29.
Unloading apparatus for variable-volume compressors. A. V. Saharoff. 1,756,137; Apr. 29.
Unloading mechanism for compressors. M. Riesner. 1,756,701; Apr. 29.
Vacuum-cleaner apparatus. H. C. Linn. 1,756,204; Apr. 29.
Vacuum device. J. A. Belhumeur. 1,756,507; Apr. 29.
Vacuum pan. A. W. Baumann. 1,756,673; Apr. 29.
Vacuum tank. G. Ramsey. 1,756,034; Apr. 29.
Vacuum tank. L. H. Wheeler. 1,756,895; Apr. 29.
Valve. D. R. Wolff. 1,756,615; Apr. 29.
Valve, Automatic fluid-temperature-control. F. L. Hutchinson. 1,756,688; Apr. 29.
Valve, Check. R. Pearson. 1,756,567; Apr. 29.
Valve-closing means, Auxiliary. E. A. Robertson. 1,756,834; Apr. 29.
Valve, Compressor. A. S. Hawks. 1,756,060; Apr. 29.
Valve construction for combustion turbines, Nozzle-. M. Sedlmeir. 1,756,139; Apr. 29.
Valve, Cooling-fluid-control. J. C. Moody. 1,756,566; Apr. 29.
Valve engine, Sleeve-. J. Haltenberger. 1,756,684; Apr. 29.
Valve, Exhaust. W. Noble. 1,756,796; Apr. 29.
Valve, Float. S. J. Steensen. 1,756,898; Apr. 29.
Valve, Flush. W. E. Sloan. 1,756,263; Apr. 29.
Valve for measuring and dispensing fluid. L. Campbell, jr. 1,756,279; Apr. 29.
Valve for rock drills. A. R. Mack. 1,756,466; Apr. 29.
Valve, Multiple. J. B. Aufuldiah. 1,756,845; Apr. 29.
Valve-operating mechanism. L. F. Heits. 1,756,552; Apr. 29.
Valve, Plug. J. C. Martin, jr. 1,756,650; Apr. 29.
Valve, Poppet. T. Bowler. 1,756,337; Apr. 29.
Valve, Pressure, temperature, and vacuum safety relief. J. A. Maynard. 1,756,652; Apr. 29.
Valve, Relief. E. G. Parker. 1,756,133; Apr. 29.
Valve, Union check. S. Thurstensen. 1,756,225; Apr. 29.
Vanity case or similar container. A. Klein and L. Esterow. Des. 81,057; Apr. 29.
Vapor-rectifier cathode, Metallic-. A. Gaudenzi and E. Kobel. 1,756,663; Apr. 29.
Vapors, gases, and the like, Method of and apparatus for treating. N. G. Linderberg. 1,756,668; Apr. 29.
Vaporizer. M. Celton. 1,756,053; Apr. 29.
Vaporizer for heaters. J. B. Blaudeau, J. Limousin, H. Rousseaux, and A. Dumont. 1,756,808; Apr. 29.
Varnish or lacquer and preparing the same. H. F. Wakefield. 1,756,267; Apr. 29.
Varnishes, Preparing colored nitrocellulose. E. Richter. 1,756,160; Apr. 29.
Vehicle. R. de Filippis. 1,756,539; Apr. 29.
Vehicle, Berry-picker's. J. D. W. Williams. 1,756,803; Apr. 29.
Vehicle, Endless track. R. B. W. Venniaf and O. F. Buck. 1,756,770; Apr. 29.
Vehicle seat. S. D. and R. D. Black. 1,756,807; Apr. 29.
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Vending and display stand, Combined. R. W. Phelps. Des. 81,070; Apr. 29.
Venetian blind. A. H. Dodge. 1,756,680; Apr. 29.
Ventilator and screen, Window. H. Y. Hodge. 1,756,068; Apr. 29.
Vibration dampener. A. P. Brush. 1,756,178; Apr. 29.
Vibrator, Fertilizer-screen. A. J. Sackett. 1,756,835; Apr. 29.
Vitamine product and obtaining the same. J. and J. Takamine, jr., and N. Fujita. 1,756,574; Apr. 29.
Voice screen. W. F. Smith, jr., and T. H. Crabtree. 1,756,705; Apr. 29.
Voltage release mechanism for switches, Low-. C. H. Bissell. 1,756,479; Apr. 29.
Vulva clamp. L. A. Treat. 1,756,670; Apr. 29.
Waffle iron. A. D. Olds. Des. 81,065-6; Apr. 29.
Wall containers, Making multiple. W. E. Benson. 1,756,243; Apr. 29.
Wall-register construction. F. Z. Ahl. 1,756,142; Apr. 29.
Wall tie. G. B. Bosco. 1,756,174; Apr. 29.
Warp stop motion. J. Regan. 1,756,607; Apr. 29.
Warping machine. G. Sipp. 1,756,217; Apr. 29.
Washboard-tensioning device. J. F. Madden and E. E. Overholt. 1,756,649; Apr. 29.
Washer: *See*—
Bottle washer.
Washing machine with multiple liquid-impelling device. W. H. Voss. 1,756,318; Apr. 29.
Water control, Direct-action thermostatic feed-. O. B. Kibele. 1,756,125; Apr. 29.
Water cooler. R. T. Smith. 1,756,218; Apr. 29.
Water-tube boiler. A. W. Patterson, jr. 1,756,164; Apr. 29.
Weeder. A. Rowley. 1,756,495; Apr. 29.
Weighting and grading machine. W. C. Wright. 1,756,016; Apr. 29.
Welding. A. G. Crum. 1,756,054; Apr. 29.
Welding rod, Metallic. H. R. Pennington. 1,756,568; Apr. 29.
Well-casing head, Oil-. W. E. Keenan. 1,756,597; Apr. 29.
Well-drilling rigs, Attachment for. I. A. Karns. 1,756,364; Apr. 29.
Wells, Apparatus for exhausting. C. A. Anderson. 1,756,500; Apr. 29.
Wheel: *See*—
Grinding wheel. Spring wheel.
Wheel-dressing device for grinding machines. F. Judge and A. M. Drake. 1,756,646; Apr. 29.
Wheel-flange lubricator. C. A. Brost. 1,756,726; Apr. 29.
Wheel hub, Detachable. C. O. Howard. 1,756,043; Apr. 29.
Wheel naves and similar articles, Pressing. K. Lohs. 1,756,160; Apr. 29.
Wheel, pulley, and gear puller. C. Tilsener. 1,756,691; Apr. 29.
Window closer. A. Krueger. 1,756,560; Apr. 29.
Window-frame machine. S. Madsen. 1,756,296; Apr. 29.
Window-operating device. C. Hilmer. 1,756,357; Apr. 29.
Window screen. P. Warnick. 1,756,496; Apr. 29.
Window screen, Adjustable. R. Kownatzky. 1,756,030; Apr. 29.
Windows, Mechanism for raising and lowering sliding. E. Etore. 1,756,638; Apr. 29.
Wiper blade, Windshield-. W. H. Ives. 1,756,751; Apr. 29.
Wiper or cleaner for printing presses and similar machines, Roll. G. Ulliring. 1,756,841; Apr. 29.
Wiper, Windshield. T. A. Zielinski. 1,756,618; Apr. 29.
Wire reel. J. E. Burnett. 1,756,782; Apr. 29.
Wires, Apparatus for mounting. S. M. Viele. 1,756,816; Apr. 29.
Wood pulp, cellulose, and similar materials, Manufacturing thick webs of. H. Jensen. 1,756,754; Apr. 29.
Work stand. J. D. Barlow. 1,756,062; Apr. 29.
Work-truing means. F. W. Kremmec. 1,756,298; Apr. 29.
Wrench. G. Wiedeke. 1,756,717; Apr. 29.
Wrist pin. E. C. Baker. 1,756,564; Apr. 29.

CLASSIFICATION OF PATENTS

ISSUED APRIL 29, 1930

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Changes in Classification

Order No. 3,144, March 19, 1930, directs:

In *class 62, Refrigeration* (Division 44), establish the following subclasses and definitions:

Refrigerators, ice
Display
37.1 Top ice cooled,
37.2 End ice cooled,
37.3 Bottom ice cooled.
Refrigerators
89.5 Display
89.6 Top cooling means,
91.5 Solidified gas.

37.1. REFRIGERATORS, ICE, DISPLAY, TOP ICE COOLED. Patents coming under subclass 37 in which the cooling ice is above the thing cooled.

37.2. REFRIGERATORS, ICE, DISPLAY, END ICE COOLED. Patents coming under subclass 37 in which the cooling ice is near one end of the refrigerator.

37.3. REFRIGERATORS, ICE, DISPLAY, BOTTOM ICE COOLED. Patents coming under subclass 37 in which the cooling ice is below the thing cooled.

89.5. REFRIGERATORS, DISPLAY. Patents coming under subclass 89 and having in addition structure or added means to display the contents.

Note.—See the search note under this class, subclass 89.

Note.—See this class, subclass 37, and the subclasses indented thereunder.

Note.—See class 312, SUPPORTS, CABINET STRUCTURES, subclasses 114. Show-case type, and the subclasses indented thereunder, and 165, With compartments, With refrigerator.

89.6. REFRIGERATORS, DISPLAY, TOP COOLING MEANS. Patents coming under subclass 89.5 and having cooling means above the thing to be refrigerated and displayed.

91.5. REFRIGERATORS, SOLIDIFIED GAS. Refrigerators cooled by a solidified gas other than water ice.

Note.—See search note under subclass 92.

The patents contained in subclasses 37.1, 37.2, 37.3, 89.5, and 89.6 have been taken from class 62, Refrigeration, subclass 37, Refrigerators, ice, Display, and those contained in subclass 91.5 have been taken from class 62, Refrigeration, subclass 92, Refrigerators, Liquefied gas.

In *class 64, Pulleys and Shafting* (Division 45), establish the following subclass:

Rotary shaft couplings
Angular adjustment
90.5 Speed controlled.

The patents contained in this subclass have been taken for the most part from class 64, Pulleys and Shafting, subclass 90, Rotary shaft couplings, Angular adjustment; class 123, Internal-Combustion Engines, subclass 117, Speed regulators, Automatically-controlled igniting device; and class 264, Speed-Responsive Devices, subclass 16, Centrifugal, Parallel pivot, and are directed to shaft-coupling devices in which the position of a driven shaft is controlled from a driving shaft in response to the speed of the latter. They are largely directed to spark advancing, and class 123, Internal-Combustion Engines, subclass 117, Speed regulators, Automatically-controlled igniting device, should be noted for combinations in which similar couplings are used.

Interference Notice

U. S. PATENT OFFICE, *Washington, Mar. 19, 1930.*

Washoff Products Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of George A. Hornbecker, 99 Wheeler St., Waterville, Conn., for registration of a trade-mark and trade-mark registered October 28, 1924, No. 190,851, to Washoff Products Company, Lima, Ohio, and a notice of such declaration sent by registered mail to said Washoff Products Company, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Washoff Products Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business March 21, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,642; Trade-Mark Division, 1,556. Oldest new case, May 18, 1926; oldest amended, May 1, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	July 10	Aug. 12	1,332
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	July 1	June 20	2,033
231	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	July 1	Oct. 5	1,536
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Aug. 10	Aug. 21	1,235
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	June 22	June 11	1,542
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	May 13	May 1	2,226
105	7. JARBOE, C. G., Optics; Photography	June 3	June 3	2,550
123	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	July 1	Sept. 20	1,002
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Sept. 4	Sept. 3	1,513
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	June 26	July 27	1,613
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Oct. 2	Oct. 8	964
300	12. PIERCE, P. P., Machine Elements	Aug. 19	Aug. 26	1,465
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 1	July 1	1,637
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	June 3	June 12	1,486
220	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	May 27	May 27	3,054
242*	16. SPENCER, C. J., Telegraphy; Telephony	July 5	Sept. 7	1,256
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 1	July 1	1,842
220	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	July 25	July 28	1,498
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	June 20	June 26	2,176
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Aug. 3	Aug. 3	1,608
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 13	Sept. 21	362
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 2	Aug. 24	1,673
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	June 3	June 7	1,212
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	May 23	June 12	1,326
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	July 12	July 16	1,576
226*	26. HODGES, J. S., Electricity, Generation; Motive Power	June 5	July 3	1,262
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 6	June 7	1,632
225	28. BENSON, A. R., Internal-Combustion Engines	July 25	July 25	2,088
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Sept. 25	Sept. 30	768
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	June 19	Dec. 2	1,200
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	July 3	July 3	2,556
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 8	Aug. 7	1,904
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	May 20	May 28	2,637
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	July 6	July 29	1,169
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Sept. 20	Oct. 1	1,870
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	July 5	July 18	2,261
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 14	June 17	2,157
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	June 1	June 6	2,007
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	May 27	May 28	2,057
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	June 4	Aug. 31	2,099
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Aug. 1	Aug. 5	1,410
223*	42. CUTTING, H. O., Electric Signaling	Aug. 1	Aug. 27	1,612
134*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	May 31	June 1	2,400
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	May 22	May 27	2,309
278	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	May 22	June 3	2,501
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	July 24	July 24	1,097
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	May 22	June 17	2,609
212*	48. ROEPKE, O. B., Electricity, General Applications	June 19	June 19	1,397
269	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Sept. 6	Sept. 18	1,189
223	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	June 10	June 19	2,946
249*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	June 26	June 26	2,362
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Aug. 1	Aug. 1	2,892
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Sept. 14	July 19	1,335
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	June 13	June 12	2,814
222	55. BOWEN, S. T., {Bread, Pastry, and Confection Making; Cutlery / Designs	Nov. 20	Nov. 20	464
229	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	†Feb. 24	†Mar. 5	445
154*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 11	June 19	2,432
272	58. DOWELL, E. F., Abrading; Typewriting	June 3	July 13	1,281
116	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	May 17	May 21	1,491
213*	60. GLASS, E. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Movers; Dynamo Plants; Conduits and Housings.	June 7	June 5	2,008
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	June 17	June 15	2,372
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	May 31	June 3	2,800
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND.. {Trade-Marks / Labels and Prints	June 27	July 3	2,788
		†Feb. 24	†Mar. 11	1,428
		†Mar. 1	†Mar. 7	126

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

Stern and Heuther v. Schroeder and Wagner

No. 2,100. Decided December 19, 1929

1. Interference—Priority—Reduction to Practice.

The claim in issue *Held* to read upon a machine of a specifically different construction from that of their application, and S. and W. *Held* entitled to priority as the first to conceive the invention and the first to reduce it to practice by the building of such machine.

2. Same—Same—Concurrent Decisions of the Patent Office.

"It has repeatedly been held, in cases of this character, that when the tribunals of the Patent Office concur in findings of fact, such findings will not be disturbed by this court, unless the decision appealed from is manifestly wrong."

3. Same—Same—Patentability of the Claims Not in Issue.

"The question of patentability of the claims in the interference appears, if not actually, at least, inferentially, to have been raised. This question is not now before us."

Appeal from the Patent Office. Affirmed.

Mr. Hans V. Briesen and *Mr. Fred A. Klein* for Stern and Heuther.

Mr. Kenneth S. Neal for Schroeder and Wagner.

Hatfield, *J.*:

This is an appeal, in an interference proceeding, from a decision of the Board of Appeals affirming the decision of the Examiner of Interferences awarding priority of the invention to appellees.

The apparatus involved in the interference is used for scoring and slotting blanks of pasteboard in the production of folding boxes or cartons.

The counts of the interference read as follows:

1. In a rotary box blanking machine, means for slotting a blank on opposite edges, and means for creasing the blank between said slots, said slotting and creasing means being constantly interengaged and adjustable simultaneously for varying the distance apart of the slots and creases and for automatically maintaining the creases in alignment with the slots.

2. In a rotary box blanking machine, creasing means including a creasing roller, and slotting means for slotting the opposite edges of the blank, said slotting means including a roller having a groove therein, said roller being positioned so that the creasing roller will project into said groove whereby all of the parts are interengaged and are adjustable simultaneously for different sized blanks.

3. In a rotary box blanking machine, a plurality of sets of slotting members adapted to be adjusted toward and from each other, said slotting members having parts which interengage whereby the units are adjusted as one member, and a creasing roller for each of the slotting units, said creasing rollers continually overlapping part of the slotting structure whereby they are automatically shifted toward each other with the slotting structures.

Appellants, Stern and Heuther, filed their application (No. 677,227) on November 27, 1923.

Appellees, Schroeder and Wagner, filed their application (No. 732,847) on August 18, 1924.

[1] The Examiner of Interferences held that, as to the particular machines shown in the applications of both parties, and referred to in the record as the "four-bar type," conception had been established as follows: Appellants, April 9, 1923; appellees, June 1, 1923. He further held that, if appellees had established conception of this particular type of machine at an earlier date—to wit, in either 1920 or 1921—as was claimed—

they were lacking in diligence with respect to such a machine just prior to and just after April 9, 1923, when Stern and Heuther had successfully used such a machine.

(It might here be said that, due to the state of the record, we do not consider, nor express any opinion upon the question of the diligence of appellees with respect to the "four-bar-type" machine.) However, priority of invention was awarded to appellees, Schroeder and Wagner, on the basis of a so-called "floating-ring type" of machine, differing somewhat in construction from the "four-bar type," but which, it was held, supported each of the counts in issue. The "floating-ring" machine was constructed and sold by Schroeder and Wagner some time during the month of September, 1922. The Examiner of Interferences went into considerable detail in explanation of his holding that the so-called floating-ring-type machine supported the counts in the interference. In view of the fact that this question is a highly technical one, we deem it advisable, although it may extend this opinion considerably, to quote that portion of his decision relating thereto:

In the machine in question there was a rotating male slotter above a rotating female slotter. The female slotter comprised two circular knives slightly spaced apart. Between those two blades was placed a ring of a diameter slightly greater than that of the female slotter. This ring was constantly urged upward by a spring pressed cradle on which it rested. The male slotting knife had two segmental knives attached to its periphery spaced 180 degrees apart. The slotting occurred when these knives cooperated with the two cutters of the female slotter. The rest of the time the male slotter presented a smooth cylindrical surface adjacent to the female slotter. The floating ring pressed against this cylindrical surface with sufficient force to crease the paper blank as it passed through the machine. Whenever one of the segmental cutters of the male slotter came opposite the female slotter it pushed the floating ring down into the groove of the female slotter.

From what has just been said it is believed to be fully apparent that the floating ring of the Schroeder and Wagner 1922 machine was a "means for creasing the blank between said slots." It is believed to be plain also that the slotting and creasing means were constantly interengaged and adjustable simultaneously, the male slotter engaging the female slotter only at times, namely, when the cutting segments of the male slotter entered the female slotter. Stern and Huether have shown the same relation and none other between the two slotters. The floating ring of the 1922 Schroeder and Wagner machine was so interengaged with the female slotter as to compel it to move along with the female slotter whenever the latter was adjusted along its shaft. The interengagement of the floating ring with the female slotter was due to the fact that the ring was in the groove of the slotter. The interengagement disclosed in Stern and Huether's application is likewise made between the single shiftable creasing element and the female slotter. The interengagement is of two kinds. The edge of the creasing disk passes within the groove of the female slotter. Besides this interengagement, the two are interengaged by means of a bar extending from the hub of one of the elements to the hub of the other. It is believed count 1 reads as well on the 1922 Schroeder and Wagner floating ring machine as it does on the two applications here directly involved.

Count two calls for creasing means including a creasing roller. Unless the floating ring of the 1922 Schroeder and Wagner machine can properly be called a creasing roller, that machine did not support count 2. Unquestionably the floating ring, whatever its position in the

groove in the female slotter, was constantly mounted on its supporting cage so as to enable it to roll around and around on its cage. Its constant contact with the male slotter required that kind of movement. It is therefore held that, taking the word "roller" in its ordinary and proper meaning, it is properly applicable to the floating ring of the Schroeder and Wagner 1922 machine. It is believed to be plain from what has already been said that the female slotter which was "a roller having a groove therein" was so positioned that the floating ring "or creasing roller" projected into the groove of the female slotter and that as the result of this projection the creasing element moved with the female slotter on adjustment of the latter along its shaft. It is therefore held that the Schroeder and Wagner 1922 machine exemplified count 2.

As for count 3 the main point to be determined is whether the floating ring, that is the creasing roller, continuously overlapped part of the slotting structure. One definition of "overlap" as given in Webster's New International Dictionary is, "to lap over; to overlie; either, to extend over a part of; or, to extend over and beyond." Taking the last meaning, "to extend over a part of; or, to extend over and beyond," it is believed to be plain that the floating ring of the Schroeder and Wagner 1922 machine, whatever its position in the groove of the female slotter, in every case satisfied one or the other of the two parts of this definition. It is therefore held that the Schroeder and Wagner 1922 machine exemplified count 3 also.

An appeal was taken by appellants to the Board of Appeals, and it was there claimed, as it is claimed here, that the so-called floating ring type of machine constructed and sold by appellees in September, 1922, does not support the counts in issue; that appellants were entitled to a finding that they conceived and reduced the invention to practice as early as February 4, 1922; and that appellees could not claim the subject matter of the interference in their application if the counts in the interference "were readable on their original patent 1,493,404 issued May 6, 1924."

In explanation of the latter claim it may be said that appellees received a patent (No. 1,493,904), on the floating ring type of machine on May 6, 1924, on an application filed January 4, 1923.

The Board of Appeals affirmed the decision of the Examiner of Interferences, holding that appellants were not entitled to a finding that they conceived or reduced the invention to practice as early as February 4, 1922; that the so-called floating ring type of machine constructed and sold by appellees in September, 1922, supported the counts in the interference; and that appellees were entitled to an award of priority.

[2] The real issue before this court is whether the floating ring machine constructed and sold by appellees in September, 1922, conforms to the claims in issue. If it does, appellees were clearly entitled to the award of priority. We have studied the record with care, and particularly that portion of the decision of the Examiner of Interferences (affirmed by the Board of Appeals without extended comment) where the counts in issue were applied to the floating ring machine of appellees. The questions involved are highly technical. It has repeatedly been held, in cases of this character, that when the tribunals of the Patent Office concur in findings of fact, such findings will not be disturbed by this court, unless the decision appealed from is manifestly wrong. *Jobski* v. *Johnson*, 247 O. G. 279; 47 App. D. C. 230, and cases cited therein; *Blaine* v. *White*, 277 O. G. 787; 50 App. D. C. 38; 267 Fed. 34. See, also, *Ruth* v. *Groch*, 296 O. G. 839; 51 App. D. C. 226; 277 Fed. 861; and *Oldroyd* v. *Morgan*, 347 O. G. 4; 58 App. D. C. 78; 24 Fed. (2d) 1004.

[3] Counsel for appellants argue, however, that, even if this court should agree with the tribunals below on the issues of fact involved in the case, appellees are not entitled to a decision in their favor because of the principles announced in the case of *Chapman et al.* v. *Wintroath*, 272 O. G. 913; 232 U. S. 126. In that case the Supreme Court held that an inventor, whose original application fully disclosed but did not claim an invention which was later patented to another, was entitled under the law to a period of two years after the patent was issued within which to file either a divisional or other application for the invention. We are at a loss to understand how this decision, if it has any application to the issue at bar, can be helpful to appellants. The question of patentability of the claims in the interference appears, if not actually, at least, inferentially, to have been raised. This question is not now before use.

We are unable to hold that error has been committed in awarding priority of invention to appellees. Accordingly, the decision is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

STERN AND HEUTHER *v.* SCHROEDER AND WAGNER

No. 2,161. Decided December 19, 1929

1. INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS. S. and W. *Held* entitled to make the claim in issue in their reissue application in view of the disclosure of their original application.

2. SAME—SAME—QUESTIONS INVOLVED. The primary, perhaps the sole, question in an interference case is that of priority. "Such matters as 'intervening rights' and 'public use' appear to be so remote from this principal question as to have no proper bearing upon it."

3. SAME—SAME. Record reviewed and *Held* to establish that S. and W. were the first to conceive the invention and the first to reduce it to practice and as such entitled to the reward of priority.

APPEAL from the Patent Office. Affirmed.

Mr. Hans V. Briesen and *Mr. Fred A. Klein* for Stern and Heuther.

Mr. Kenneth S. Neal for Schroeder and Wagner.

GARRETT, *J.*:

This is an interference case relating to a machine for making box blanks from corrugated board, the blanks being afterwards folded and used for packing and shipping goods and merchandise.

Priority was awarded to Schroeder et al. on a single count of interference, on the basis of a reissue application filed September 10, 1925, Serial No. 55,634. This was an application for a reissue of their Patent No. 1,493,404, bearing date of May 6, 1924, granted upon their application filed January 4, 1923.

The application of appellants was filed on November 27, 1923, and was pending at the time of the reissue application of appellees.

The decision of the Examiner of Interferences awarding priority to appellees was rendered December 22, 1926. Appeal was taken to the Board of Appeals, which affirmed the decision of the Examiner November 1, 1927, and the case was then appealed to the court and so comes before us.

It appears that at one time during the pendency of the case in the Patent Office, a third application, that of Samuel M. Langston, was involved in the interference proceedings and parts of the record refer to it, but the Langston issue has been eliminated so far as this court is concerned, and the only controversy before us is that of *Stern and Huether* v. *Schroeder and Wagner*.

The count in issue is as follows:

In a paper machine, the combination of a pair of cooperating disks for slotting a blank, a scoring wheel for scoring said blank and means whereby said slotting disks and scoring wheel are connected to move in unison in axial directions.

This count originated in an application filed by appellants on November 27, 1923, which application was placed in interference with an original application of Schroeder and Wagner filed August 18, 1924. Later this particular interference was terminated and another declared with the reissue application of Schroeder and Wagner above referred to.

The matter with which we are concerned is that of priority. To determine this, it is necessary that we should first find whether the structure of Schroeder and Wagner is so similar to that of Stern and Huether as to read upon the count, and whether the Schroeder and Wagner patent upon which their reissue application was filed is sufficient to disclose the subject matter of the count.

[1] This technical issue seems to involve two questions: first, whether a certain ring referred to as a "floating ring," numbered 56 in the Schroeder and Wagner drawings, is the equivalent of the scoring wheel called for in the count.

Second, whether the reissue application discloses as a separate and distinct element "means whereby said slotting disks and scoring wheel are connected to move in axial directions."

The Law Examiner in the Patent Office passed upon these questions favorably to appellees, the Examiner of Interferences held likewise, and the Board of Appeals affirms these prior decisions. So three tribunals of the Patent Office have concurred upon the general issue of technique.

The decision of the Board of Appeals says:

In the Schroeder and Wagner construction the scoring member 56 is located in the groove in the female slotting disk and is urged upward into scoring position by the spring pressed cradle by which it is supported. The reason why the scoring member of Schroeder and Wagner is in ring form is that it is located in the peripheral groove of the lower slotting disk instead of on a separate shaft. It must be capable of floating movement to permit it to function as a scoring member while allowing cooperation of the slotting disks to slot the blank. In performing the scoring operation the member 56 functions as a wheel in that it rolls in contact with the upper cooperating slotting and scoring member. We agree with the holding of the Law Examiner that in a broad sense the scoring member 56 of the Schroeder and Wagner reissue application may be regarded as a wheel. The scoring member 56 of Schroeder and Wagner is mounted in the peripheral groove of the lower slotting member and as stated near the bottom of page 7 of the reissue specification moves along with the lower slotting member. It seems to us that Schroeder and Wagner just as clearly discloses the "means" of the count as do Stern and Huether in whose application the axial movement of the scoring wheel in unison with the slotting disks is secured by engagement of the periphery of the scoring wheel with the groove in one of the slotting disks. Our conclusion is that the interference count is properly supported by the Schroeder and Wagner reissue application.

The Law Examiner in his decision says:

The count originated with Stern and Huether, as their claim 2. In their disclosure the scoring wheel 35, Fig. 2, extends into groove 18ª of a slotting disk 17, and is a separate element from the slotting disks 17, 17ª.

In the reissue application of Schroeder and Wagner, the scoring "wheel" must be the floating ring 56, which, as shown in Fig. 3, is movable relative to wheel 33, being of larger diameter, and is depressed at times by blades 42 and 43 from the normal position in Figs. 5 and 7 to the position in Fig. 6 without interfering with the rotation of wheel 33. The wheels 32 and 33 may be adjusted longitudinally of the shafts 30 and 56, and the holder for ring 56 moves or shifts along with wheel 32 so that the floating ring is always in the same plane with the slotting knife segments 42 and 43.

The ring 56 may be considered a wheel in the broader sense. A wheel does not have to have a hub and spokes, and a disc wheel is practically an annulus or ring with a central opening for an axle or shaft. Incidentally, it may be noted that the patentee called member 33 a wheel or ring. If ring 56 may be described as a wheel it is a scoring ring or wheel and no new matter is introduced into the reissue application by giving the ring another name. Ring 56 is a separate element from the slotting disks of Schroeder and Wagner and may be properly included as a distinct element in the count. Even if the scoring ring or wheel plays a substantial part in the slotting it may be recited as a separate element (*ex parte Duncan, Prichard, and Macauley*, 1906 C. D. 348; *ex parte Hammond*, 1924, C. D. 43). The ring 56 moves along shaft 26 with disk 33 and hence with disk 32 when a slotting knife 42 or 43 is left in the groove of disk 33, so that the patent to Schroeder et al., No. 1,493,404, and the reissue application provide means whereby the slotting disks and scoring wheel are connected to move in unison axially.

From our examination of the specifications, drawings, and claims, aided by an inspection of numerous exhibits on file, it does not appear to us that these holdings of the Patent Office tribunals are erroneous, and we concur in their conclusion that the respective structures read upon the count in issue both as to the floating ring or wheel and as to the "means whereby the slotting disks and scoring wheels are connected to move in axial directions."

The member 56 of Schroeder and Wagner and the member 35 of Stern and Huether are so nearly similar, it seems to us, as to justify the holding, and certainly the means for movement in axial directions are quite as clearly disclosed by appellees as by appellants.

Appellants argue, however, that inasmuch as the Schroeder and Wagner application is for a reissue, this case falls within the doctrine laid down in *Manly* v. *Williams*, 168 O. G. 1034, 37 App. D. C. 194, 201; *Hauss* v. *Merrell*, 261 O. G. 956, 48 App. D. C. 433; and *MacFarren* v. *Morgan*, 375 O. G. 209, 24 F. (2d) 1003. This doctrine as stated in the Manly case and reiterated and followed in the others is—

that attempts to enlarge the scope of an application once filed or of a patent once granted should be frowned upon, especially when the result would be the appropriation of an intervening invention.

In all three of these cases the Commissioner was reversed, but it should be noted that in each case the Appellate Court specifically found that the original application had failed to disclose the device or structure there in issue.

In the instant case it appears to us, as it did to the Patent Office tribunals, that the Schroeder and Wagner specifications and claims *do* disclose the features at issue, particularly under the application of the well-settled legal principle that in interference proceedings "the claims will be given the broadest interpretation which they reasonably support"

Lynch v. *Headley*, 307 O. G. 737, 52 App. D. C. 269, 285 Fed. 1003, 1004. What was said in *Machine Co.* v. *Murphy*, 97 U. S. 120, 125, seems apropos:

> • • • the court or jury, as the case may be, are not to judge about similarities or differences by the names of things, but are to look at the machines or their several devices or elements in the light of what they do, or what office or function they perform, and how they perform it, and to find that one thing is substantially the same as another, if it performs substantially the same function in substantially the same way to obtain the same result.

There is much argument by appellants to the effect that appellees did not in their reissue application disclose the idea of simultaneously shifting the slotting and scoring parts, but this argument apparently overlooks certain language of the original patent, No. 1,493,404, upon which the reissue application is based. In the specifications of that patent we find the following:

> It will be noted from Figure 4 that the wheel 32 is not only splined to the shaft 30 but is held in place by set screws so that it may be adjusted longitudinally of shaft 30 for spacing the slots 69 as desired. The wheel 33 is constructed in a similar manner as indicated in Figure 3 so that it may be correspondingly adjusted. It will be noted that the plate or holding structure 65 containing the supporting mechanism for the floating ring, also moves or shifts along with the wheel 32, so that the floating ring is always in the same plane with the slotting knife segments 42 and 43. This will automatically insure that the creases 70 are in perfect alignment with the slots 69 and 71.

It would seem that the language is sufficient to disclose to "one skilled in the art" an adequate showing as to the necessary action in operation. In any event the disclosure of Schroeder and Wagner upon this point is apparently quite as full as that of appellants. The specifications of both parties appear to assume, as we think they properly might assume, a knowledge upon the part of the persons operating the machine "that one of the male slotting blades should be engaged with the groove on the female slotting head or disk."

In view of this state of facts we do not feel that appellees can successfully invoke the principle declared in *Otis* v. *Ingoldsby & Bowling*, 154 O. G. 1108, 35 App. D. C. 102, wherein it was said:

> It is not the object of section 4916, Revised Statutes, relating to the reissue of a patent to encourage or permit the insertion of claims in the reissue application which involve an impractical mode of operation, or which are obviously inserted for the sole purpose of appropriating claims of other inventors.

In *Pierce* v. *Bell*, 239 Fed. 549, 554, cited by appellants, the United States District Court said:

> The introduction in a reissued patent of claims for invention which are described but which the patentee neither claimed nor intended to claim by the original patent is unauthorized and void. *Ide* v. *Trorlicht, etc., Co.*, 115 Fed. 137, 53 C. C. A. 341; *Clements* v. *Odorless Apparatus Co.*, 109 U. S. 641, 3 Sup. Ct. 525, 27 L. Ed. 1060.

These three cases were infringement cases, and the facts differed from those in the instant case.

The fourth assignment of error is:

> That Schroeder and Wagner never claimed the subject matter of the interference, abandoned it, if they ever were the inventors thereof, and that Stern & Heuther and their company had secured intervening rights which could not be dominated by Schroeder and Wagner more than two years after such rights had been established.

In support of this appellants invoke the doctrine laid down in the noted case of *Chapman* v. *Wintroath*, 272 O. G. 913; 252 U. S. 126, and we are asked to hold the principle there declared as being applicable to a divisional application to be also applicable to a reissue application. In the *Chapman* v. *Wintroath* case the court applied to a division application through which an interference was sought to be established the principle of R. S. 4886, U. S. C. A., title 35, section 31, which prohibits the grant of a patent where the subject matter of the application "had been in public use or on sale in his country for more than two years" before the filing of the application.

In argument appellants say:

> We can see no difference in principle between a divisional application and a reissue application particularly when the original patent and its application on which the reissue is based never contained a claim directed to the subject matter of the interference.

[2] We think this position is not tenable in an interference proceeding. Certainly the primary, perhaps the sole, question in an interference case is that of priority. There may be a number of subsidiary issues which the tribunals of the Patent Office and this court must pass upon in order to reach a conclusion upon the one question, priority, but these subsidiary issues must relate directly to the principal one, and such matters as "intervening rights" and "public use" appear to be so remote from this principal question as to have no proper bearing upon it. Even if the record in the instant case were in such a state as to present the questions of intervening rights and public use in a way that we could determine them, and even if that determination were to the effect that appellants had acquired such rights and that such public use was shown as that appellee would be barred from securing a patent, still such finding would not really aid in settling the issue of who was prior, the sole issue with which we are concerned in this proceeding.

The court decisions appear to be uniform in holding that questions of public use and intervening rights cannot properly be considered in interference cases. *Earles & Lowe* v. *Gomber*, 288 O. G. 287; 50 App. D. C. 389, 273 Fed. 353; *Hayes* v. *Davison*, 287 O. G. 593; 50 App. D. C. 361, 273 Fed. 325; *Norling* v. *Hayes*, 166 O. G. 1282; 37 App. D. C. 169, 1911 C. D. 347; *Frost* v. *Chase*, 169 O. G. 945; 37 App. D. C. 179, 1911 C. D. 347.

[3] The remaining subsidiary questions necessary to be determined are the respective (*a*) dates of conception and (*b*) reduction to practice.

Stern and Huether claim July 15, 1921, for conception and explanation to others; December 14, 1921, for first drawings; and about February 15, 1922, for completion and operation of the first machine.

Schroeder and Wagner claim the last week in June, 1920, for conception and first drawings; March 1, 1921, for completion and operation of their first machine; and about May 1, 1922, for first "written description of the invention."

Much testimony was taken by both parties and a large number of exhibits, such as drawings, samples of the corrugated paper boards, photographs, a pattern of a part, time cards of laborers in the factories, contracts, letters, bills, books, etc., were filed. So we presume the case to have been as fully presented by each party as the facts would warrant.

The finding of the Board of Appeals upon this phase is as follows:

> Grounds 2 and 5 of the Stern and Heuther appeal relate to questions of priority based on the testimony. Touching ground 2 of the appeal we are not satisfied that the evidence introduced in behalf of Stern and Heuther establishes a reduction to practice as early as February 4, 1922. The date urged for conception under ground 5 of the Stern and Heuther appeal is December 6, 1922. Even if this date were accorded to Stern and Heuther, and we think it has not been established, it is later than the date to which Schroeder and Wagner are entitled for actual reduction, September —, 1922, based on the construction and sale of a machine embodying the subject matter of the interference count.

We find no reason in the mass of testimony to disagree with this finding of the Board. To enter upon a complete written review of the evidence would draw this opinion out to an undue length and we forego so doing, feeling that it could serve no useful purpose. We have very thoroughly read and studied it in detail, having the benefit of the oral arguments as well as the careful analysis of it made in the respective briefs.

Upon the whole record in the case the tribunals of the Patent Office have concurred in affirming the right of Schroeder and Wagner to make the claim of the count and in according them priority. It is the established rule that such decisions will be accepted by the appellate court as binding unless palpable and manifest error has been committed. *Oldroyd* v. *Morgan*, 374 O. G. 4; 58 Appls. D. C. 78; 24 F. (2d) 1004, and cases therein cited.

We find no such error and accordingly the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,066,468, L. W. Chubb, Process and apparatus for electric welding; 1,196,744, same, Welded metal, D. C., N. D. Ohio (E. Div.), Doc. 2801, *Westinghouse Electric & Mfg. Co.* v. *C. H. Quackenbush et al.* Patent No. 1,066,468 held invalid as to claims 5, 6, 8, 12, and 16 and Patent No. 1,196,744 held invalid as to claims 1 and 2 and patents held not infringed Jan. 29, 1930.

1,092,462, E. Trobeck, Metal-working machine, D. C., N. D. Ohio (E. Div.), Doc. —, *The National Acme Co.* v. *The Cleveland Automatic Machine Co.* Claims 3, 4, 5, 12, and 13 held valid and infringed Jan. 21, 1930.

1,118,818, C. E. Schmidt, Manufacture of leather, filed Jan. 28, 1930, D. C., S. D. N. Y., Doc. E 51/393, *Leather Makers Process Co.* v. *F. Rueping Leather Co.*

1,128,144, Inwood & Lavenberg, Combined carriage and former for wire-bound-box machine; 1,128,145, same, Means for making box blanks; 1,128,252, same, Method of making boxes, C. C. A., 6th Cir., Doc. 5076, *Wirebounds Patents Co. et al.* v. *Sarunac Automatic Machine Corp.* Claim 25 of No. 1,128,252, held valid and infringed, bill to be dismissed, without prejudice, as to other two patents, Jan. 24, 1930.

1,128,145. (See 1,128,144.) 1,128,252. (See 1,128,144.)

1,196,744. (See 1,066,468.)

1,228,649, L. Y. Williams, Dust guard, filed Dec. 31, 1929 D. C., E. D. Pa., Doc. 5679, *Dust Guards, Inc.*, v. *L. W. Garratt.*

1,269,996, P. H. Bartlett, Meter and instrument support, filed Dec. 9, 1929, D. C., E. D. Pa., Doc. 5605, *Metropolitan Device Corp.* v. *Reading Sheet Metal Products Co. Inc.*

1,271,529, M. C. Hopkins, Acoustic device, filed Dec. 30, 1929, D. C., Minn. (3d Div.), Doc. E 1611, *Lektophone Corp.* v. *Wright-De Coster, Inc.* Same, filed Dec. 10, 1929, D. C., E. D. Pa., Doc. 5600, *Lektophone Corp.* v. *H. B. Reinhart et al.*

1,292,030, A. J. Parisi, Circuit closer for alarm circuits; 1,508,611, same, Burglar alarm, filed Jan. 30, 1930, D. C., S. D. N. Y., Doc. E 52/2, *Padua Hold Up Alarm Corp.* v. *Duplex Electric Co.*

1,404,539, C. K. Nelson, Confection, filed June 25, 1925, D. C., S. Dak. (Sioux Falls), Doc. —, *Eskimo Pie Corp.* v. *The Crescent Creamery Co.*

1,441,054, J. Barry, Outlet box, D. C., S. D. N. Y., Doc. 42145, *Hope Foundry & Machine Co., Inc.*, v. *W. A. Bonnell (Bonnell Electric Mfg. Co.).* Dismissed Jan. 28, 1930.

1,483,466, Mauer & Mauer, Scenery-forming paper and method of preparing; 1,650,372, same, Scenery-forming paper, filed Dec. 17, 1929, D. C., E. D. Pa., Doc. 5633, *C. B. Mauer et al.* v. *Pfeiffer Novelty Co. Inc.* Same, filed Dec. 23, 1929, D. C., E. D. Pa., Doc. 5655, *C. B. Maurer et al.* v. *J. Jackson.*

1,508,611. (See 1,292,030.)

1,514,585, C. R. Edwards, Testing device for oil wells, filed Jan. 25, 1930, D. C., S. D. Tex. (Houston), Doc. 404, *C. R. Edwards* v. *Johnson Formation Tester Corp. et al.*

1,524,935, E. E. Johnson, Method of making couplings, filed Jan. 13, 1930, D. C., Minn. (4th Div.), Doc. 1558, *E. E. Johnson* v. *Central Supply Co. et al.* Doc. 1559, *E. E. Johnson* v. *Janney Semple Hill & Co. et al.*

1,542,803, Gordon & Redlin, Lathe, filed Jan. 29, 1930, D. C., E. D. Mich. (S. Div.), Doc. 3945, *The Gordon Form Lathe Co.* v. *General Motors Corp.* Doc. 3946, *The Gordon Form Lathe Co.* v. *Packard Motor Car Co.*

1,561,506, R. Chilton, Engine starter, D. C., W. D. N. Y., Doc. E 1091, *Healey & Aeromarine Bus Co., Inc.*, v. *Eclipse Machine Co.* Discontinued Jan. 27, 1930.

1,565,958. (See 1,622,292.)

1,576,415, G. B. Cutting, Packing for hood of an automobile, filed Dec. 3, 1929, D. C., E. D. Pa., Doc. 5675, *G. B. Cutting* v. *L. H. Gilmer Co.*

1,577,150, C. E. Putman, Imitation shake shingle, filed Jan. 25, 1930, D. C., W. D. Wash. (N. Div.), Doc. 721, *C. E. Putman* v. *G. R. Merkley et al. (Osbow Shingle Co.).*

1,603,207, T. Huston, Paper bag and seal, D. C., N. D. Tex. (Ft. Worth), Doc. E 555, *T. Huston* v. *E. T. Keel.* Decree for plaintiff Jan. 18, 1930.

1,606,342, E. A. Bruce, Draining device, D. C., S. Dak. (Sioux Falls), Doc. —, *E. A. Bruce* v. *Brownell Corp.* Decree for plaintiff Nov. 22, 1929.

1,622,292, L. Reno, Lathe; 1,565,958, same, Crankshaft polisher, D. C., E. D. Mich. (Bay City), Doc. E 313, *L. Reno* v. *General Motors Corp.* Patents held not infringed (notice Jan. 29, 1930).

1,650,372. (See 1,483,466.)

1,702,115, I. Gurwick, Envelope and process of making, filed Jan. 28, 1930, D. C., S. D. N. Y., Doc. E 51/392, *Transparent Paper Printing Corp.* v. *A. Hers.*

Re. 15,515, G. Haiss, Wagon loader, filed Nov. 21, 1929, D. C., E. D. Pa., Doc. 5549, *G. Haiss Mfg. Co., Inc.*, v. *Link Belt Co.*

Des. 75,031, N. Kopp, Lighting-fixture bowl, filed Dec. 10, 1929, D. C., E. D. Pa., Doc. 5611, *Kopp Glass, Inc.*, v. *Gill Glass & Fixture Co.*

T. M. 127,621, Iodent Chemical Co., Tooth paste, appeal filed Jan. 10, 1929, C. C. A., 3d Cir., Doc. 4033, *J. M. Jacobs (Jacobs Drug Co.)* v. *Iodent Chemical Co.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,578,296, A. H. Taylor, Multifrequency crystal-controlled oscillator, decided January 13, 1930, claim 10.

Pat. 1,614,579, B. W. Twyman, Lifting jack, decided January 10, 1930, claims 1 and 2.

Pat. 1,727,865, H. Debottay, Process of utilizing carbonic acid, decided February 1, 1930, claims 1 and 2.

Final decision in interference has been rendered against the following trade-mark:

T. M. 148,241, Malt extract, M. C. Rosenfeld Co., of Boston, Massachusetts. Registered November 8, 1921. Decided February 10, 1930.

Adjudicated Patents

(C. C. A. N. Y.) Hermani patent, No. 1,267,409, for apparatus for applying hinge pintles for box-part blanks, claims 3, 5, 6, 9, 10, 11, 14, and 50 *Held* not infringed. (*Id.*)

(D. C. N. Y.) Armstrong patent, No. 1,322,511, for stable-surface alloy steel, claims 4 and 5 *Held* not infringed, the other claims valid and infringed. *Ludlum Steel Co.* v. *Terry*, 37 F (2d) 153.

(D. C. N. Y.) Johnston patent, No. 1,388,434, for method and apparatus for butt-welding thin-gage tubing, claims 1, 2, and 22 *Held* invalid; claims 4, 5, 10, 14, 16, 17, 19, and 26 *Held* valid and infringed. *Steel and Tubes, Inc.* v. *Greenpoint Metallic Bed Co.*, 37 F (2d) 172.

(D. C. N. Y.) Johnston patent, No. 1,435,306, for butt-welded thin-walled tubing, claims 3, 5, 6, and 9 *Held* valid and infringed. (*Id.*)

(D. C. N. Y.) Armstrong patent, No. 1,456,088, for heat-treated stable-surface alloy steel, claim 4 *Held* not infringed, the other claims *Held* valid and infringed. *Ludlum Steel Co.* v. *Terry*, 37 F (2d) 153.

(D. C. N. Y.) Armstrong patent, No. 1,533,782, for valve for internal-combustion engines, *Held* valid and infringed. (*Id.*)

(C. C. A. N. Y.) George reissue patent, No. 14,393, for hinge-wiring machine, *Held* invalid. *Tin Decorating Co. of Baltimore* v. *Metal Package Corporation*, 37 F (2d) 5.

Disclaimers

1,332,793.—*Leon Bloch*, New York, N. Y. COMBINED WASTE AND OVERFLOW. Patent dated March 2, 1920. Disclaimer filed March 13, 1930, by the patentee and the exclusive licensee, *The Republic Brass Company*.

Hereby makes disclaimer of the subject matter of claim 1 except where the means permitting the withdrawal of the waste valve through the overflow pipe and elbow is limited to the proportioning of the valve, pipe, and overflow elbow, so as to permit such withdrawal, and where a flexible connection with the valve constitutes part of such means.

1,626,731.—*Joseph Herman*, New York, N. Y. METHOD OF AND APPARATUS FOR SYNCHRONIZATION IN PICTURE TRANSMISSION. Patent dated May 8, 1927. Disclaimer filed March 12, 1930, by the assignee, *American Telephone and Telegraph Company*.

Hereby enters this disclaimer to the said claim of said Letters Patent, which is in the following words, to wit:

"9. In a signaling system means for generating a sustained alternating current, means for continuously modulating said alternating current according to message signals, means for receiving said modulated current, and means for dividing said received current into message signal currents and into synchronizing signal currents."

1,647,317.—*James M. Selden*, Pittsburgh, Pa. PROCESS OF CARRYING ON CATALYTIC REACTIONS. Patent dated November 1, 1927. Disclaimer filed March 18, 1930, by the assignee, *The Selden Company*.

Hereby enters this disclaimer to the process of claims 1, 2, and 3 of said Letters Patent except when the "single body of fluid" is directed positively through a path of movement which includes a cooling zone partitioned off from the zone where the plurality of bodies of catalyst are situated and where the excess heat of the reaction is being produced and the cooling by a gaseous medium takes place in said partitioned off cooling zone and the cooled liquid is returned to the zone where the plurality of catalyst bodies are situated.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 1, 1930

[VOL. 393. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 272,126. BOKOSHE SMOKELESS COAL CO., Bokoshe, Okla. Filed Sept. 10, 1928.



Applicant disclaims the right to the exclusive use of the word "Bokoshe" apart from the trade-mark as shown in the drawing. The drawing is lined for red.

For Coal.

Claims use since about Jan. 1, 1925.

Ser. No. 289,128. JOHN PRYCE & CO., Batavia, Java, Dutch East Indies. Filed Aug. 28, 1929.



For Skins of Domestic and Wild Animals, Reptiles, and Fishes in a Raw or Partly-Prepared Condition.

Claims use since January, 1927.

Ser. No. 289,513. GOLDBERG SEED & FEED COMPANY, Fargo, N. Dak. Filed Sept. 9, 1929.



For Field, Garden, and Vegetable Seed.

Claims use since Dec. 20, 1928.

Ser. No. 294,537. LOUISIANA FURS, INC., Chicago, Ill. Filed Jan. 8, 1930.

LAFI

For Pelts or Unfinished Furs, Such as Muskrat, Opossum, Mink, Raccoon, Otter, and Others.

Claims use since Jan. 1, 1930.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 293,083. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Nov. 29, 1929.



The words "Ely & Walker, St. Louis—Makers" are disclaimed as part of the trade-mark.
For Luggage—Namely, Trunks, Suitcases, Traveling Bags, and Hatboxes for Traveling Purposes.
Claims use since Oct. 1, 1929.

Ser. No. 294,808. KARI-KEEN MANUFACTURING CO., INC., Sioux City, Iowa. Filed Jan. 15, 1930.

Baggage Master

For Luggage Carrier in the Nature of a Trunk.
Claims use since about Dec. 12, 1929.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 291,216. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Oct. 18, 1929.



The line shading in the drawing denotes the color red.
For Automobile Top Dressing.
Claims use since July 15, 1929.

Ser. No. 294,918. W. P. FULLER & CO., San Francisco, Calif. Filed Jan. 18, 1930.



For Dry Cleaner for Fine Fabrics, Kid, Leather, Paintwork, Etc.
Claims use since Feb. 1, 1927.

CLASS 6

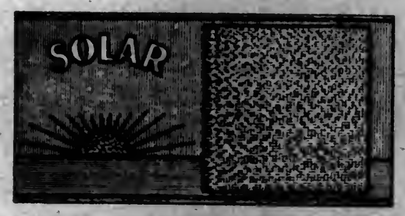
Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 277,085. ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y. Filed Dec. 21, 1928.

SOLAR

For Baking Powder.
Claims use since June 21, 1928.

Ser. No. 277,086. ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y. Filed Dec. 21, 1928.



The lining on the drawing represents the colors red, blue, and yellow. No claim is made to the illustration of a label as such.
For Baking Powder.
Claims use since Oct. 23, 1928.

Ser. No. 278,803. ANDREW A. OBETKOWSKI, doing business as Union Products Company, Detroit, Mich. Filed Feb. 2, 1929.



The protrait illustrated is merely fanciful, and the words "A Certified Quality Product" are disclaimed apart from the mark shown.
For Liniments in Liquid Form Applied Externally for Relief of Pain and Inflammation, Castor Oil, Cough and Cold Medicines, Epsom Salts.
Claims use since Jan. 3, 1929.

Ser. No. 279,887. FRANK X. SCHRAM, doing business as F. X. Schram Laboratories, Chicago, Ill. Filed Feb. 25, 1929.

SALIS A COM

For a Medicinal Preparation for Removing Verruca and Papilloma, Callous, Nail Groove, and for Treating Soft Corns, Nervovascular and Vascular Corns.
Claims use since Dec. 13, 1927.

Ser. No. 285,582. MERKOLENE CHEMICAL CO., Charleston, W. Va. Filed June 14, 1929.

MERKOLENE

For Ointment for Treating Wounds, Cuts, Burns, Bruises, Chapped Hands and Lips, Skin Diseases, Hemorrhoids, Sunburns, Insect Bites, and Sores and for Preventing Blood Poison.
Claims use since Apr. 15, 1929.

Ser. No. 285,617. BABY HEALTH PRODUCTS, INC., Brooklyn, N. Y. Filed June 15, 1929.



Applicant is the owner of registered Trade-Mark No. 83,862.
For Talcum Powder for Babies.
Claims use since on or about Oct. 17, 1911.

Ser. No. 287,297. REBECCA HALIF, doing business as Madame Halif, Lynbrook, N. Y. Filed July 18, 1929.

THE MARVEL OF THE AGE-GUARANTEED
MADAME HALIFS

No claim being made to the exclusive use of the words "Guaranteed Madame Halifs."
For Preparation for the Treatment of the Scalp.
Claims use since May 31, 1929.

Ser. No. 287,536. LES GRANDS PARFUMS DE FRANCE, INC., New York, N. Y. Filed July 23, 1929.



The words "Parfums, Paris," and "New York" are disclaimed apart from the mark shown on the drawing.
For Perfumes.
Claims use since Mar. 10, 1929.

Ser. No. 288,076. THE KENDALL COMPANY, Boston, Mass., and Chicago, Ill. Filed Aug. 3, 1929.



El Gallo

For Corn and Bunion Plasters.
Claims use since on or about June 1, 1912.

Ser. No. 288,750. ADJUTOR J. LAMBERT, doing business as A. J. Lambert, Auburn, Me. Filed Aug. 20, 1929.

Lambert's
CANCER
RELIEF

The words "Cancer Relief" appearing on the drawing are hereby disclaimed.
For Liniment Used Internally for General Relief of Cancer.
Claims use since Feb. 15, 1923.

Ser. No. 290,531. CALEB THOMPSON, St. Louis, Mo. Filed Oct. 2, 1929.

THOMPSON'S



HEALTH TONIC

No claim being made to the words "Health Tonic" nor to the surname "Thompson's" apart from the mark shown on the drawing.

For Tonic for Earache, Deafness, Nervousness, Blood Purifying, System Building, Weak Kidneys, Indigestion, and Lumbago.

Claims use since Feb. 1, 1929.

Ser. No. 291,455. HOUSEHOLD UTILITIES CO., Chicago, Ill. Filed Oct. 23, 1929.

LES FLEURS RENDEZVOUS

For Hand Lotion, Nail Polish, Liquid Cuticle Remover for Removing the Cuticle Around Finger Nails, Toilet Water, Perfume, Talcum Powder, Bath Salts, Cold Cream, Shampoo, Vanishing Cream, and Brilliantine.

Claims use since Oct. 4, 1929.

Ser. No. 292,452. LES PARFUMS DE MOLYNEUX, INC., New York, N. Y. Filed Nov. 15, 1929.

Le Chic de Molyneux

The trade-mark "Le Chic de Molyneux" is in the actual handwriting of Edward Molyneux.

For Perfumes, Toilet Waters, Lotions for the Treatment of the Skin, Lotions to be Used in the Treatment of the Hair and the Setting of Waves, Bath Powders, Talc Powders, Face Powders, Lip Sticks, and Bath Salts.

Claims use since Oct. 31, 1929.

Ser. No. 292,752. WILLIAM H. ROBER, INC., Philadelphia, Pa. Filed Nov. 22, 1929.

LULLABALM

For Ointment for Rash, Eczema, Breaking Out, Etc., on Grown Persons, and Particularly on Infants.

Claims use since Jan. 1, 1929.

Ser. No. 293,061. H. A. MONTGOMERY CO., INC., Detroit, Mich. Filed Nov. 29, 1929.



No claim being made to the representation on the drawing of the liquid being discharged from the dropper.

For Liquid Ink Eradicator for Removing Ink and Stains from Paper, Cloth, Clothing, Wood, Rugs, Linens, and Laces, for Removing Tobacco Stains from the Fingers, and for Removing Aniline Dyes.

Claims use since May 1, 1929.

Ser. No. 293,559. ABRAHAM N. SHAVELSON, doing business as Chex Chemical Company, Guttenberg Township, Hudson County, N. J. Filed Dec. 11, 1929.

CHEXOL

For Tablets, a Medicinal Preparation Used in the Treatment of Common Colds, Simple Headache, and Simple Neuralgia.

Claims use since Mar. 15, 1924.

Ser. No. 293,923. GENERAL DISTRIBUTORS COMPANY, Brooklyn, N. Y. Filed Dec. 20, 1929.

GEE-DEE MAG-NEESHA

Applicant disclaims the word "Mag-Neesha" apart from the mark as shown in the drawing.

For Citrate of Magnesia.

Claims use since Oct. 7, 1929.

Ser. No. 294,680. NATIONAL ART SIGN CORPORATION, doing business as Nasco Company, Minneapolis, Minn. Filed Jan. 11, 1930.

REUMACINE

For Preparation for the Treatment of Rheumatism, Neuralgia, Neuritis, Lumbago, Pleurisy, Sciatica, and All Dull or Sharp Joint or Muscle Pains.

Claims use since Sept. 30, 1929.

Ser. No. 294,681. NATIONAL ART SIGN CORPORATION, Minneapolis, Minn. Filed Jan. 11, 1930.

STOMACINE

For Preparation for the Treatment of Stomach Ills.

Claims use since Sept. 30, 1929.

Ser. No. 295,045. OWENS & MINOR DRUG CO., INC., Richmond, Va. Filed Jan. 21, 1930. Under 10-year proviso.

DR. DAVID'S

SANATIVE WASH

For Medicinal Preparation for the Relief of Itch, Mange, Scabies, Scratches, Camp Itch, and the Seven-Years' Itch, Sore Back, and Collar-Galled Horses.

Claims use since 1885.

Ser. No. 295,106. GORHAM AND WING, Lexington, Ky. Filed Jan. 22, 1930.

WING-GOR

For Rubbing Liniment for External Use for Treatment of Sprains and Bruises.

Claims use since Dec. 15, 1929.

Ser. No. 295,227. KO-TAR PRODUCTS CO., Cedar Rapids, Iowa. Filed Jan. 25, 1930.

NUOZONE

For Poultry Medicine for Roup, Bowel Complaint, Cholera, White Diarrhœa, Chicken Pox, Limber Neck, and Coccidosis.

Claims use since July, 1926.

Ser. No. 295,310. VICLAIRE, INC., New York, N. Y. Filed Jan. 28, 1930.

EL-ZYME

The word "Zyme" appearing on the drawing is disclaimed apart from the mark as shown.

For Medicinal Preparation for the Relief of Stomach Disorders, Such as Indigestion and Dyspepsia.

Claims use since Jan. 2, 1929.

Ser. No. 295,332. ALLAN C. DAY, doing business as A. C. Day Laboratories, South Orange, N. J. Filed Jan. 29, 1930.



No claim is made to the exclusive use of the word "Liniment" apart from the mark shown on the drawing and the representation of the carton and bottle per se. The drawing being lined to indicate the colors green, yellow, and red which are claimed as features of the mark.

For Liniment for the Relief of Rheumatic and Neuralgic Pains, Lumbago, Sciatica, Neuralgia, Sore and Stiff Muscles and Joints Resulting from Overexertion or Exposure to Cold and Wet, Sprains, Strains, Bruises, Lame Back, Stiff Neck, Headache, Sore Throat, and Chest Colds.

Claims use since Mar. 15, 1927.

Ser. No. 295,384. THE NEW ERA TREATMENT COMPANY, London, England. Filed Jan. 30, 1930.

ELASTO

For Medicinal Preparations for Use in Disorders of the Blood and Circulatory System.

Claims use since Mar. 19, 1923.

Ser. No. 295,392. LOUIS SINGER, doing business as Jubilee Perfumer, New York, N. Y. Filed Jan. 30, 1930.

Jubilee

For Cleansing Cream, Sachet Powder, Liquid Shampoo, Lip Stick, Almond Cream, Paste Rouge, Liquid Nail Polish, Compact Rouge, Skin Lotion, Face Powder, Talcum Powder, Toilet Water, Perfume, Hairdressing, Astringent, Eyebrow Crayon, Hair Tonic, and Vanishing Cream.
Claims use since Nov. 1, 1929.

Ser. No. 295,647. TERMITEOL CORPORATION, INC., New Orleans, La. Filed Feb. 5, 1930.

TERMITEOL

For Preparation Used as a Preventative Against All Forms of Wood-Destroying Organisms.
Claims use since Mar. 19, 1929.

Ser. No. 295,737. E. GRIFFITHS HUGHES, LIMITED, Manchester, England. Filed Feb. 7, 1930.

KARSOTE

For Inhalant for the Relief of Catarrh and Cold in the Head.
Claims use since Dec. 4, 1912.

Ser. No. 295,800. LA GERARDINE, INC., New York, N. Y. Filed Feb. 8, 1930.

La GERARDINE

For Preparation for Curling and Waving Hair.
Claims use since Jan. 15, 1930.

Ser. No. 296,068. MACANDREWS & FORBES COMPANY, Camden, N. J. Filed Feb. 15, 1930.

LICOLETS

For Medicinal Preparation for the Treatment of Throat and Stomach and for Purifying the Breath.
Claims use since July 29, 1929.

Ser. No. 296,074. DR. MILES MEDICAL COMPANY, Elkhart, Ind. Filed Feb. 15, 1930.

CINSA-VESS

For Medicinal Preparation for Use in the Treatment of Rheumatism, Neuritis, Sciatica, Lumbago, and Gout.
Claims use since Jan. 15, 1930.

Ser. No. 296,118. THE HENRY B. GILPIN COMPANY, Baltimore, Md. Filed Feb. 17, 1930.

TALGOLETTE

For Toilet Powder.
Claims use since July 20, 1908.

Ser. No. 296,131. H. MILGRIM & BROS., INC., New York, N. Y. Filed Feb. 17, 1930.

SALYMIL

For Perfumes.
Claims use since Sept. 25, 1929.

Ser. No. 296,146. PETER JOSEPH PUETZ, doing business as Joester Company, Fort Wayne, Ind. Filed Feb. 17, 1930.

JOESTER

For Permanent-Waving Preparation.
Claims use since Jan. 30, 1930.

Ser. No. 296,222. LORENS P. ELS, doing business as Norine Co., St. Louis, Mo. Filed Feb. 19, 1930.

NORINE

For Medicinal Preparation for the Treatment of Headache, Neuralgia, Rheumatism, Gout, Colds, La Grippe, Fevers, Chills, Influenza, Neuritis, Backache, Monthly Pains, and Sciatica.
Claims use since January, 1927.

Ser. No. 296,231. MUIR LABORATORIES, Grand Rapids, Mich. Filed Feb. 19, 1930.

EMTONA

For Laxative Tonic.
Claims use since Dec. 11, 1929.

Ser. No. 296,353. LYNCH-CROSS CORPORATION, Milwaukee, Wis. Filed Feb. 21, 1930.

CEDARATOR

For Preparation for Driving Moths and Other Insects from Clothing.
Claims use since Feb. 4, 1930.

Ser. No. 296,354. M. & B. PRODUCTS CO., Philadelphia, Pa. Filed Feb. 21, 1930.

FLI-CEASE

For Insecticide for Flies, Gnats, Mosquitoes, Roaches, Moths, Bedbugs, Etc.
Claims use since Feb. 17, 1930.

Ser. No. 296,410. ETHYL GASOLINE CORPORATION, New York, N. Y. Filed Feb. 24, 1930.

ETHYL

For Chemical Carbon Remover.
Claims use since Feb. 18, 1930.

Ser. No. 296,448. SAL LABORATORIES, Brooklyn, N. Y. Filed Feb. 24, 1930.

KO-LO-SAL

For Preparation Used in the Treatment of Stomach Disorders, Indigestion, Acidosis, Heartburn, and Biliousness.
Claims use since Jan. 1, 1930.

CLASS 12
Construction Materials

Ser. No. 291,875. THE INLAND FIRE BRICK COMPANY, Cleveland, Ohio. Filed Nov. 1, 1929.

BRIXPLASTIC

For Unburned Fire-Brick Material in Mouldable Form.
Claims use since Oct. 22, 1929.

Ser. No. 295,120. FORD ROOFING PRODUCTS CO., Chicago, Ill. Filed Jan. 23, 1930.

Velvetone

For Composition Roofing and Composition Shingles.
Claims use since on or about Sept. 1, 1929.

Ser. No. 295,141. W. C. TOWNSEND & COMPANY, Zanesville, Ohio. Filed Jan. 23, 1930.

BOTHNIA

For Quarried, Cut and Polished Stone, Including Granite.
Claims use since January, 1926.

Ser. No. 295,478. JOHNS-MANVILLE CORPORATION, New York, N. Y. Filed Feb. 1, 1930.

JOHNS-MANVILLE

JM

For Blankets Composed of Asbestos or Rock Wool for Insulating Purposes, Pipe Covering, Boiler Covering, Hot-Water-Tank Covers; Heat-Insulating Felt, Insulating Sheets, Boards, Blocks, Lagging Tapes, Slabs, Bricks, Blankets, Powder, Cements, Fillings, and Mortar; Insulating Coatings and Compounds, Heat-Insulating Materials in Sheets and Moulded Forms, Thermal-Insulating Materials for Buildings; Blocks, Lagging, Sheets, or Moulded Shapes of Asbestos and/or Magnesia and/or Diatomaceous Silica for Insulating; Moulded Insulation for High Temperatures, Millboard, Cellular Insulating Material Mainly Composed of Asbestos Paper, Paper Bags Filled with Insulating Materials for Building Insulation, Built-Up and Sectional Thermal Insulation; Natural Cork for Insulating Purposes in Sheets, Blocks, and Other Moulded Shapes; Heat-Insulating Materials in Sectional or Segmental Form for Pipe Covering, Rock Wool with Bituminous Binder in Sheets and Shapes for Low-Temperatures Insulation, Laminated Insulating Blocks and Pipe Covering Composed of Asbestos Paper and Sponge, Plastic Insulating Materials, Electrical Insulating Materials in Sheet and Moulded Form, Composition Flooring; Mastic Floorings Composed of Asphalt and Mineral Aggregate; Rubber Composition Floorings, Decorative Flooring, Asphalt Flooring, Flooring Flux; Felt and Paper Saturated with Asphalt, Impregnated Felt for Roofing, Waterproof Fabric for Buildings, Roofing and Shingles Composed of Asbestos and Other Mineral Constituents, Asbestos Shingles and Sheathing, Asphalt Roofing, Roof-Coating; Roofing Felt, Liquid Waterproof Coating, Waterproof Cement, Plastic Weatherproof Coating for Insulation, Compositions for Boiler Setting; Impregnated Cotton Fabrics for Waterproofing, Airtight and Waterproof Finishes, Asphalt Shingles Composed of Asphalt Impregnated Rag Felt with Mineral Surfacing, Impregnated Asbestos Felt for Roofing, Asphalt Shingles Composed of Asphalt Impregnated Asbestos Felt with Mineral Surfacing, Impregnated Rag Felt for Roofing, Asphalt Impregnated Asbestos Felt with Mineral Surfacing in Rolls for Ready-to-Lay Roofing, Paints and Bitumens Used for Waterproofing and for Underground Pipe Protection, Asphalt-Impregnated Rag Felt with Mineral Surfacing in Rolls for Ready-to-Lay Roofing, Asbestos Roof Coatings, Asphalt Roof Coatings, Asphalt Priming Compounds, Roofing Asphalt, Waterproofing Cement, Moulded Sheets and Shapes of Asbestos and Cement with Bituminous Impregnation; Fireproof Nonheat-Conducting Materials Composed of Asbestos Fire and Hydraulic Cement in Sheets, Strips, Blocks, and Other Moulded Shapes with Bituminous Impregnation; Electrical Insulating Sheets and Moulded Shapes Composed of Asbestos Fibre and Cement, Impregnated; Sheets Composed of Asbestos and Cement with a Coated Surface, Sheets and Shapes Composed Mainly of Asbestos and Hydraulic Cement for Cell Structures and Arc Deflectors, Artificial Stone, Asbestos Paper for Buildings, Builder's Paper; Composition Boards for Walls, Ceilings, Floors, Roofs, and Other Surfaces; Metal Lath, Wall Plaster, Plaster Lath; Blocks, Bricks, Sheets, Lagging, Boards, Moulded Sections, Blankets, Cements, Mortar, Powder, Fillings, and Concretes for Fireproofing; Refractory Cement, Plastic Firebrick Materials; Integral Waterproofing Compounds for Concrete, Plaster, Stucco, and Mortar; Admixture for Concrete, Plaster, Stucco, and Mortar; Mineral Plasticising Agents for Use in Concrete, Plaster, Stucco, and Mortar; Mineral Filler for Asphaltic Compounds; Decorative Stone, Natural-Stone Floor Tile; Asphalt Brick Fillers, Sound-Absorbing Materials; Sound-Absorbing Materials of Asbestos, Hair-Felt or Rock Wool, with Metal Container; Sound-Absorbing Materials of Asbestos, Hair-Felt, or Rock Wool with Cloth Finish; Preformed Asphalt in Blocks or Slabs for Flooring and for Bridge or Road Surfacing; Fireproof Materials Composed of Asbestos and Refractory Clays.

Claims use since Apr. 10, 1929.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 293,012. ALBERENE STONE COMPANY, New York, N. Y. Filed Dec. 13, 1929. Under 10-year proviso.

ALBERENE BEST STONE

For Laundry Trays and Kitchen Sinks.
Claims use since July 8, 1890.

Ser. No. 294,777. NEWARK WIRE CLOTH COMPANY, Newark, N. J. Filed Jan. 14, 1930.

SEALEDGED

For Wire Cloth and Metal Screening.
Claims use since Aug. 17, 1929.

Ser. No. 294,834. THE ALLEN MANUFACTURING COMPANY, Hartford, Conn. Filed Jan. 16, 1930.



For Machine Screws and Threaded Metal Plugs Having Socketed Head Ends.
Claims use since Oct. 17, 1929.

Ser. No. 295,599. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; Hoboken, N. J. Filed Feb. 5, 1930.

HEXTRALINE

For Wire Fencing, and Particularly Straight-Line Poultry Netting.
Claims use since Jan. 22, 1930.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 294,110. FIFTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed Dec. 27, 1929.

ALCRO

For Steel Bars of Various Shapes and Sizes; Forgings, Blocks, Discs, All of Steel; and Pieces of Steel.
Claims use since Dec. 12, 1929.

CLASS 15

Oils and Greases

Ser. No. 271,616. MERCO NORDSTROM VALVE COMPANY, San Francisco, Calif. Filed Aug. 27, 1928.

MERCO

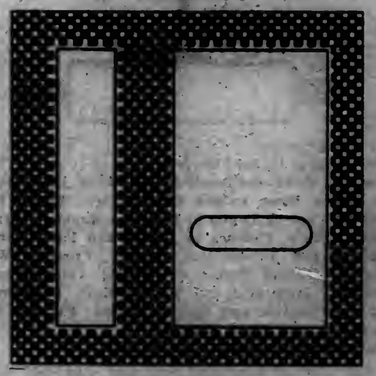
For Lubricating Greases.
Claims use since April, 1924.

Ser. No. 294,968. E. E. FULTON CO., Chicago, Ill. Filed Jan. 20, 1930.

FULCO

For Mineral Oil and a Compounded Oil for Lubricating Purposes.
Claims use since July, 1928.

Ser. No. 295,047. PANHARD OIL CORPORATION, New York, N. Y. Filed Jan. 21, 1930.

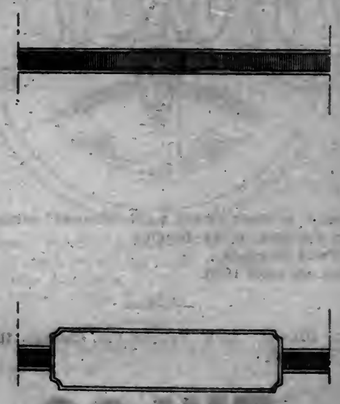


For Lubricating Oils and Greases.
Claims use since Nov. 15, 1928.

CLASS 16

Paints and Painters' Materials

Ser. No. 281,710. THOMSON WOOD FINISHING CO., Philadelphia, Pa. Filed Apr. 1, 1929.



The drawing is lined for red.
For Dry, Paste, and Ready-Mixed Paints, Paint Enamels, Flat Paints, Floor Paints, Paste Fillers, Liquid Fillers, Driers for Causing Paints to Dry More Rapidly, Varnishes; Primers, Wax in Paste and Liquid Form for Floors, Automobiles, and Furniture; Structural and Metal Paints, Lacquers, Cement, Concrete and Varnish Stains, Pigment Stains, Acid Stains, and Water Stains.
Claims use since about Jan. 15, 1922.

Ser. No. 281,711. THOMSON WOOD FINISHING CO., Philadelphia, Pa. Filed Apr. 1, 1929.



The drawing is lined for red.
For Dry, Paste, and Ready-Mixed Paints, Paint Enamels, Flat Paints, Floor Paints, Paste Fillers, Liquid Fillers, Driers for Causing Paints to Dry More Rapidly, Varnishes, Asphalt Paints, Polishes in Liquid and Paste Form for Furniture and Automobiles, Bronzes, Primers; Wax in Paste and Liquid Forms for Floors, Automobiles, and Furniture; Structural and Metal Paints, Lacquers; Cement and Concrete and Varnish Stains; Pigment Stains, Acid Stains, and Water Stains.
Claims use since about Jan. 15, 1922.

Ser. No. 283,884. THE CHARLES MOSER COMPANY, Cincinnati, Ohio. Filed May 11, 1929.

EVENFLO ENAMEL

No claim is made to the word "Enamel" except in the manner disclosed in the drawing.
For Paint Enamels.
Claims use since 1926.

Ser. No. 294,967. E. E. FULTON CO., Chicago, Ill. Filed Jan. 20, 1930.

FULCO

For Liquid Wax Polish Specially Adapted to Restore a High Gloss on a Lacquered Surface, Furniture Polish, and Waxless Polish.
Claims use since July, 1928.

Ser. No. 295,150. THE GILBERT SPRUANCE COMPANY, Philadelphia, Pa. Filed Jan. 24, 1930.

GILCO

For Wax for Polishing Floors, Woodwork, Furniture, Linoleum, and Automobiles.
Claims use since on or about Nov. 27, 1929.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 294,420. GRAHAM-PAIGE MOTORS CORPORATION, Dearborn, Mich. Filed Jan. 6, 1930.



For Automobiles and Constructive Parts Thereof.
Claims use since about Dec. 31, 1929.

Ser. No. 294,427. HUDSON MOTOR CAR COMPANY, Detroit, Mich. Filed Jan. 6, 1930.

SUNSEDAN

Applicant disclaims the exclusive use of the word "Sedan" apart from the mark shown in the drawing.
For Automobile Bodies.
Claims use since Nov. 27, 1929.

Ser. No. 295,030. HUDSON MOTOR CAR COMPANY, Detroit, Mich. Filed Jan. 21, 1930.



Applicant disclaims the exclusive use of the numeral "8" apart from the mark shown in the drawing.
For Gasoline Passenger Automobiles.
Claims use since Jan. 9, 1930.

Ser. No. 295,073. THE S. E. HYMAN COMPANY, Freemont, Ohio. Filed Jan. 22, 1930.



The lining on the drawing is for shading only.
For Covers for Automobile Cushions, Seats, and Seat Backs.
Claims use since Oct. 2, 1929.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 269,374. TOBE DEUTSCHMANN COMPANY, Canton, Mass., assignor to Tobe Deutschmann Company, a Corporation of Delaware. Filed July 10, 1928.



No claim is made to the words "A Filter" appearing in the trade-mark.
For Combination of Condensers and Inductances Forming Filter Units.
Claims use since Feb. 1, 1928.

Ser. No. 277,617. TOBE C. DEUTSCHMANN, doing business as Tobe Deutschmann Company, Cambridge, Mass. Filed Jan. 5, 1929.



No claim is made to the word "Filter" apart from the mark as shown, and no claim is made to the letter "A" apart from the mark as shown.
For Self-Contained Accessory Unit for Electrical Apparatus Comprising a Combination of High-Capacity Condenser and Chokes or Inductances Arranged in a Single Container or Housing.
Claims use since Jan. 15, 1928.

Ser. No. 278,539. HAMILTON ROSS FACTORIES, INC., Chicago, Ill. Filed Jan. 28, 1929.

DURAMONO

For Bridge Lamps, Junior Lamps, Table Lamps.
Claims use since Jan. 11, 1929.

Ser. No. 278,923. THE BALDWIN COMPANY, Cincinnati, Ohio. Filed Feb. 6, 1929. Under section 5b of the act of 1905 as amended in 1920.

Ellington

For Radio Receiving Sets and Loud-Speakers, Antennæ, Transformers, Induction Coils, Tube Sockets, Resistance Units, Rheostats, Condensers, and Loading Coils, Choke Coils, Inductances, and Resistance Devices, Inductive and Noninductive, for Use in Connection Therewith.
Claims use since Jan. 28, 1929.

Ser. No. 286,710. THE PEP BOYS-MANNY, MOE & JACK, doing business as Sturdee Storage Battery Co., Philadelphia, Pa. Filed July 6, 1929.



The word "Sturdee" is disclaimed apart from the other features of the mark shown in the drawing.
For Storage Batteries.
Claims use since Jan. 1, 1929.

Ser. No. 288,555. GLOBE-UNION MFG. CO., Milwaukee, Wis. Filed Aug. 15, 1929.

GLOBE

For Wet Storage Batteries.
Claims use since May, 1921.

Ser. No. 291,845. SUPERIOR CABINET CORPORATION, New York, N. Y. Filed Oct. 31, 1929.

CONGRESS

For Radio Receiving Sets Alone or Adapted for Combination with Phonographs.
Claims use since Oct. 19, 1929.

Ser. No. 293,526. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Dec. 11, 1929.

THYRATRON

For Grid-Controlled Arc Tubes.
Claims use since July 16, 1929.

Ser. No. 293,639. PERMATITE MANUFACTURING CO. INC., Minneapolis, Minn. Filed Dec. 13, 1929.

North

For Electrical Crank-Case Heaters.
Claims use since Aug. 1, 1928.

Ser. No. 295,128. MARKO STORAGE BATTERY CORPORATION, Brooklyn, N. Y. Filed Jan. 23, 1930.

Fulman

For Storage Batteries.
Claims use since Jan. 2, 1930.

Ser. No. 295,367. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa. Filed Jan. 30, 1930.

"44"

For Storage Batteries.
Claims use since Dec. 10, 1929.

Ser. No. 295,569. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Feb. 4, 1930.

2163-A.B.C.

For Connectors for Armored Cables and Wires.
Claims use since Oct. 1, 1928.

Ser. No. 295,572. PILLE BROS., INC., Denver, Colo. Filed Feb. 4, 1930.

Thor

For Storage Batteries and Parts Thereof.
Claims use since on or about June 1, 1924.

Ser. No. 295,584. USL BATTERY CORPORATION, Niagara Falls, N. Y. Filed Feb. 4, 1930.

SUPER DEFENDER

For Storage Batteries.
Claims use since June 29, 1929.

Ser. No. 295,585. USL BATTERY CORPORATION, Niagara Falls, N. Y. Filed Feb. 4, 1930.

DEFENDER

For Storage Batteries.
Claims use since June 29, 1929.

Ser. No. 295,729. DOMINION ELECTRICAL MFG. COMPANY, Minneapolis, Minn. Filed Feb. 7, 1930.

TOAST-O-MATIC

For Electrical Toasters.
Claims use since on or about Dec. 1, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 288,469. THE EDWARDS MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Aug. 13, 1929.

BO-LO

For Tops.
Claims use since July 16, 1929.

Ser. No. 295,946. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed Feb. 12, 1930.

HOOKLESS

Applicant is the owner of registered Trade-Marks No. 198,412 and No. 265,869.
For Bridge Sets, Tennis-Racket Covers, and Golf Bags.
Claims use since Nov. 7, 1929, on bridge sets; since Dec. 13, 1929, on tennis-racket covers; since Dec. 16, 1929, on golf bags.

Ser. No. 295,947. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed Feb. 12, 1930.

TALON

For Bridge Sets, Tennis-Racket Covers, and Golf Bags.
Claims use since Nov. 7, 1929, on bridge sets; since Dec. 13, 1929, on tennis-racket covers; since Dec. 16, 1929, on golf bags.

Ser. No. 295,977. JAMES HEDDON'S SONS, Dowagiac, Mich. Filed Feb. 13, 1930.

Vamp

For Artificial Baits.
Claims use since March, 1922.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 271,825. ROTH-BÜCHNER AKTIENGESELLSCHAFT, Berlin-Tempelhof, Germany. Filed Aug. 31, 1928.



Registration of the trade-mark shall give no right to the exclusive use of the representation of the razor shown in the drawing.
For Cutlery Ware—Namely, Safety Razors, Blades for Safety Razors, Hair Clippers and Shearing Machines, Mechanical Razor-Blade and Corn-Plane Stroppers.
Claims use since Mar. 27, 1928.

Ser. No. 289,507. O. M. POOCK, doing business as City Machine & Tool Works, Dayton, Ohio. Filed Sept. 9, 1929.



The lining upon the drawing is for the purpose of shading only, and the words "The Shopmark of Performance" are disclaimed apart from the other features of the mark.
For Lathe and Grinding Arbors; Production Machinery and Tools Used in Making Parts for Automotive, Electrical, Tractor, and Cash-Register Machinery and Apparatus; Metal Stamping Dies; Special Machinery and Tools for Metal Working; Metal Milling, Drilling, Boring, and Holding Machinery; Gear Burnishing, Grinding, and Gear-Tooth Rounding and Stamping Machinery; Drill Jigs, Locating Jigs and Mill Jigs, Turret Lathes, Die Punches, and Machines for Watch-Making and Cartridge Making.
Claims use since Apr. 17, 1927.

Ser. No. 290,624. STANCO INCORPORATED, New York, N. Y. Filed Oct. 3, 1929.

STANCO INCORPORATED

For Hand and Portable Sprayers, Pumps, Squirt Guns, Atomizers, and Hand and Portable Containers, Cans and Similar Means Adapted for Distributing, Using, or Applying Insecticides.
Claims use since Aug. 29, 1928.

Ser. No. 294,278. SOUTHWEST FIRE EQUIPMENT CORPORATION, San Antonio, Tex. Filed Dec. 31, 1929.



The drawing is lined for the color red.
For Fire-Extinguishing Bombs Complete with Brackets.
Claims use since Mar. 15, 1929.

Ser. No. 294,448. UNIVERSAL GEAR CORPORATION, Chicago, Ill. Filed Jan. 6, 1930.

HELIOCENTRIC

For Mechanical Speed Reducers Adapted to Provide Rotative Movement at a Reduced Rate from Rotating Shafts and the Like.
Claims use since Nov. 8, 1929.

Ser. No. 294,605. WRIGHT AERONAUTICAL CORPORATION, Paterson, N. J. Filed Jan. 9, 1930.



No claim being made to the words "Aircraft Engines" apart from the mark shown.
For Internal-Combustion Engines for Aeronautical Purposes.
Claims use since Dec. 24, 1929.

Ser. No. 294,927. SEED FILTER & MANUFACTURING CO., INC., New York, N. Y. Filed Jan. 18, 1930.



For Paint Scrapers.
Claims use since on or about Nov. 15, 1927.

Ser. No. 296,024. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed Feb. 14, 1930.

PIERCE

For Engine Mufflers and Spare Parts.
Claims use since in or about 1915.

Ser. No. 296,025. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y. Filed Feb. 14, 1930.

For Engine Mufflers and Spare Parts.
Claims use since in or about 1915.

Ser. No. 296,192. B. BENJAMIN KENDIG, New York, N. Y. Filed Feb. 18, 1930.

GOLD GRAPH

For Machines for Lettering Rebound Books.
Claims use since Nov. 15, 1929.

CLASS 24

Laundry Appliances and Machines

Ser. No. 293,867. HARRY BOHN, doing business as The Coffield Washer Company, Dayton, Ohio. Filed Dec. 19, 1929.



Applicant disclaims, apart from the mark as shown, the representation of the goods and all wording appearing on the mark except the words "Coffield, Gold Seal," and "Pedestyle."
For Clothes-Washing Machines and Clothes Wringers.
Claims use since Oct. 28, 1929.

Ser. No. 295,051. JESSE L. WOOD, Jackson, Mich. Filed Feb. 5, 1930.

ARCHBAR

For Clothes and Drying Racks.
Claims use since Nov. 1, 1929.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 235,552. LIMITED COMPANY, formerly The Škoda-Works, Plzeň, Prague-Smichov, Czechoslovakia. Filed Aug. 4 1926.



For Measuring and Scientific Apparatus—Namely, All Apparatus for Measuring Lengths—Namely, Diameter Gauges, Longitudinal Gauges, Depth Gauges Such as Calipers with the Necessary Handles; All Comparatory Gauges for Checking and Inspecting Longitudinal Gauges or Gauges Mentioned Above; Apparatus for Measuring Dimensions and Checking Very Small Articles—Namely, Needles Fitted with Pointer Gauges; Gauges and Apparatus for Checking Fixed Articles, for Checking Machine Tools such as Cutters, Milling Cutters, and Drills Fitted with Mechanical Measuring Apparatus; Apparatus as Mentioned Herein for Controlling and Checking the Balance or the Correct Running of Quickly-Revolving Machine Parts, Fitted with Mechanical Gauges; Dial Gauges, Gauges as Enumerated Above Fitted with Optical Apparatus, Gasometers and Gas Gauges; Electric Measuring Apparatus—Namely, Ammeters, Voltmeters, Phasemeters
Claims use since Mar. 26, 1925.

Ser. No. 295,609. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Feb. 5, 1930.

KODALITH.

For Sensitized Photographic Paper.
Claims use since Nov. 12, 1929.

Ser. No. 296,090. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 15, 1930.

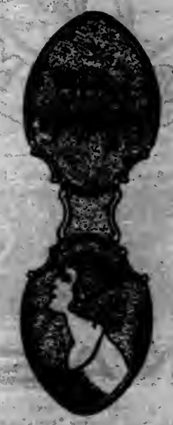
Western Electric

For Sound-Picture Apparatus—Namely, Apparatus for Recording and Reproducing Sound and Light Effects, and Apparatus for Recording Sound Effects Upon and Reproducing Sound Effects from Films, and Parts Thereof—Namely, Amplifiers, Photo-Electric Cells, Adapters for Adapting Projector Heads to Sound-Reproducer Sets, Electromagnetic Pick-Ups, Apertures, Turntables, Equalizers and Attenuators, Bases, Mounting Brackets, Cable Reels, Camera Drives, Chains Limited to Recording and Reproducing Machines, Shaft Couplings, Sensitometers, Densitometers, Projector Drives, Film Guides, Film-Recording Machines, Film-Reproducing Attachments, Flexible Shafting, Gain Sets Including Potentiometers, Noise-Measuring Sets, Light Valves, Light-Valve Ribbon-Stringing Jigs, Film Magazines, Vibration-Absorbing Drives for Film-Reproducing Sprockets, For Disc-Reproducing Turntables and for Film-Recording Sprockets, Duplicate Film Printers, Racks, Shaftings, Sound Units Comprising a Source of Light, a Lens Tube, Drive Sprockets, Film Guide and Photo-Electric Cell, Take-up Pulleys, and Trunks for Apparatus Consisting of the Necessary Equipment for Sound-Picture Reproduction, a Portion of the Apparatus Being Usable While in the Trunk by Means of Switching Connections Mounted on the Trunk.
Claims use since Mar. 11, 1929.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 293,761. SPANGLER INC., Chicago, Ill. Filed Dec. 6, 1929.



The lining and stippling shown upon the drawing are intended to represent shading only. No claim is made to the word "Perles" appearing on the label apart from the mark shown in the drawing, and no claim is made to the form of the label or tag upon which it appears apart from the mark shown in the drawing. The picture of a young woman is fanciful and not intended to represent any individual.
For Beads Used as Necklaces and the Like Personal Wear and Jewelry for Personal Wear (Not Including Watches.)
Claims use since Oct. 15, 1927.

Ser. No. 294,442. REGENT IMPORT CORPORATION, New York, N. Y. Filed Jan. 6, 1930.

"WEARIEVER"

For Bead-Stringing Chain and Silk Cords.
Claims use since November, 1929.

Ser. No. 294,666. J. W. FORSINGER CO., Chicago, Ill. Filed Jan. 11, 1930.

Oriole

The drawing is lined to indicate the color orange.
For Diamonds and Diamond Rings.
Claims use since Dec. 20, 1929.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 295,394. S. M. SUPPLIES CO., Boston, Mass. Filed Jan. 30, 1930.



No claim being made to the words "Boston, Mass."
For Rotary Stitching-Cleaning Brushes.
Claims use since July 1, 1929.

Ser. No. 295,668. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Mops, Brooms, and Scrub Brushes.
Claims use since Oct. 26, 1926.

CLASS 31

Filters and Refrigerators

Ser. No. 285,489. AKTIESOLAGET ELEKTROLUX, Stockholm, Sweden. Filed June 13, 1929.

LUX

For Filters and Parts Therefor.
Claims use since January, 1927.

Ser. No. 294,063. DEWEY & ALMY CHEMICAL COMPANY, North Cambridge, Mass. Filed Dec. 26, 1929.

DAREX

For Porous Rubber Sheets for Use as Filtering Media.
Claims use since Dec. 18, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 288,443. VICTOR L. NEWMAN, doing business as Trisales Company, New York, N. Y. Filed Aug. 12, 1929.

VAMPON

For Ottomans, Hassocks, Cushions, and Footstools.
Claims use since Apr. 23, 1929.

Ser. No. 288,967. THE LANE COMPANY, INC., Altavista, Va. Filed Aug. 24, 1929.



Applicant disclaims the right to the exclusive use of the words "Aroma-Tight Cedar Chest" apart from the mark shown in the drawing.
For Cedar Wardrobes, Cedar Chifforobes, Cedar Closets, Cedar Chests, Designed for the Destroying of Moths and Eggs and Worms Found in Clothing, Etc., Stored in Such Closures.
Claims use since about July 1, 1928.

Ser. No. 291,340. WILLY KNOLL, doing business as Wilhelm Knoll, Stuttgart, Germany. Filed Oct. 21, 1929. Under 10-year proviso.

„Knoll"

For Chairs (Except Surgical and Dental Chairs), Armchairs, Love Seats, Couches, Beds, and Seats and Backs for Motor Cars, Railways, and Aeroplanes.
Claims use since 1894.

Ser. No. 296,254. LUDWIG BAUMANN & COMPANY, New York, N. Y. Filed Feb. 20, 1930.

slumberest

For Mattresses.
Claims use since Feb. 8, 1930.

CLASS 33

Glassware

Ser. No. 295,133. OLEAN GLASS COMPANY, INC., Olean, N. Y. Filed Jan. 28, 1930.



For Glass Jars or Containers.
Claims use since on or about Oct. 1, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 295,620. THE HOME HEATING CORPORATION, Baltimore, Md. Filed Feb. 5, 1930.

PRONTO

For Steam and Hot-Water Boilers.
Claims use since Apr. 4, 1929.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 295,174. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

STANDOIL

For Hose Made of Rubber and Fabric for Conducting Liquids and Gases.
Claims use since July, 1917.

Ser. No. 295,667. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Jar Rings Made of Rubber or of Some Other Suitable Packing Material.
Claims use since Oct. 26, 1926.

CLASS 36

Musical Instruments and Supplies

Ser. No. 291,204. COLUMBIA PHONOGRAPH COMPANY, INC., Bridgeport, Conn. Filed Oct. 18, 1929.

林歌

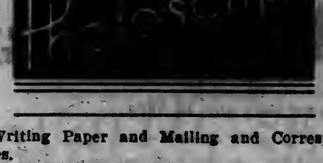
The Chinese characters presented for registration translate into "Ko Lum" meaning "Forest of Song."
For Phonograph Records.
Claims use since on or about Mar. 1, 1929.

CLASS 37

Paper and Stationery

Ser. No. 294,540. THE PHOTOSCRIPT COMPANY, Philadelphia, Pa. Filed Jan. 8, 1930.

THE PHOTOSCRIPT COMPANY



For Writing Paper and Mailing and Correspondence Envelopes.
Claims use since Oct. 15, 1929.

Ser. No. 295,559. A. B. DICK COMPANY, Chicago, Ill. Filed Feb. 4, 1930.

CELLOTYPE

For Stencil Paper Consisting of Sheets Adapted to Conversion into Stencils.
Claims use since Dec. 31, 1929.

Ser. No. 295,666. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Toilet Paper and Wax Paper.
Claims use since Oct. 26, 1926.

Ser. No. 295,693. PACKAGE PAPER COMPANY, Holyoke, Mass. Filed Feb. 6, 1930.

WINDOWAX

For Waxed Paper.
Claims use since Dec. 19, 1929.

Ser. No. 296,262. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Feb. 20, 1930.

DULLOFOLD

For Mineral-Coated Paper Suitable for Printing.
Claims use since Jan. 10, 1930.

Ser. No. 296,267. ECLIPSE FOUNTAIN PEN AND PENCIL CO. INC., New York, N. Y. Filed Feb. 20, 1930.

MONROE

For Fountain Pens and Pencils.
Claims use since about Jan. 15, 1930.

CLASS 38

Prints and Publications

Ser. No. 291,361. JAMES FRANK SMITH, Kansas City, Mo. Filed Oct. 21, 1929.

AircraftAGE

For Monthly Periodical.
Claims use since Aug. 10, 1929.

Ser. No. 293,793. SEVEN ARTS PUBLISHING CO., New York, N. Y. Filed Dec. 17, 1929.

Scanning The Jewish Horizon

For Syndicated Topical Columns or Articles Published from Time to Time.
Claims use since on or about Oct. 11, 1929.

Ser. No. 294,394. MANAGEMENT MAGAZINES, INC., Chicago, Ill. Filed Jan. 4, 1930.

CLUB MANAGEMENT
The National Magazine for Executives of Town and Country Clubs

For Periodical.
Claims use since Nov. 11, 1929.

Ser. No. 294,395. MANAGEMENT MAGAZINES, INC., Chicago, Ill. Filed Jan. 4, 1930.

CAFETERIA MANAGEMENT
The National Magazine of the Cafeteria Business

For Periodical.
Claims use since Nov. 11, 1929.

Ser. No. 295,143. CHRISTY WALSH, New York, N. Y. Filed Jan. 23, 1930.

MEMBER
ALL-AMERICA BOARD OF BASKETBALL

For Heading for a Series of Articles.
Claims use since Dec. 20, 1929.

Ser. No. 295,777. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 7, 1930.

AG-EX NEWS

The word "News" being disclaimed apart from the mark shown in the drawing.
For Trade Publication or Magazine.
Claims use since Nov. 1, 1929.

CLASS 39

Clothing

Ser. No. 258,282. PEERLESS CAP CO., Covington, Ky. Filed Dec. 1, 1927.

PEERLESS HAND-TAILORED CAPS
Made For Me By
THE PEERLESS CAP CO.
"Makers of High Grade" Caps
COVINGTON KENTUCKY
WHEN BETTER CAPS ARE BUILT THEY WILL BE PEERLESS HAND-TAILORED CAPS

No claim is made herein to the words "Peerless Hand-Tailored Caps Made for Me by—the Peerless Cap Co. Makers of 'High Grade' Caps Covington Kentucky—When Better Caps are Built They will be Hand-Tailored Caps" apart from the mark as shown in drawing.
For Tailored Caps for Men, Women, and Children.
Claims use since Oct. 28, 1927.

Ser. No. 275,559. BARNEY B. COCKRELL, doing business as Red Ball Stores, Drew, Miss. Filed Nov. 20, 1928.

THE RED BALL STORE

The drawing is lined for the color red. The word "Store" is disclaimed apart from the other features of the mark shown in the drawing.
For Men's and Boys' Suits, Overcoats, Raincoats, Leather Shoes; Sweaters Made of All Wool, Part Wool and Cotton, Part Wool and Silk, and Also Cotton; Neckties, Work and Dress Trousers; Dress, Negligee, and Work Shirts; and Women's and Girls' Dresses, Suits, Coats, and Shoes Made of Leather.
Claims use since September, 1926.

Ser. No. 286,847. WILSON, MCGOWN & TENZER, INC., New York, N. Y. Filed July 10, 1929.

PLUSETTE

For Ladies' Underwear—Namely, Brassière and Panty Combinations, Brassière and Step-In Combinations, and Brassière and Bloomer Combinations.
Claims use since May 10, 1929.

Ser. No. 288,715. MISHAWAKA RUBBER AND WOOLEN MANUFACTURING COMPANY, Mishawaka, Ind. Filed Aug. 19, 1929.

WHITEX

For Combination Rubber and Leather Shoes and Composition Soles for Shoes.
Claims use since July 22, 1929.

Ser. No. 289,854. TULSA OVERALL & MANUFACTURING COMPANY, Tulsa, Okla. Filed Sept. 16, 1929.

MAGIC BRAND UNION MADE

The applicant disclaims the descriptive words "Brand" and "Union Made" apart from the mark as shown on the drawing.
For Overalls, Jumpers, Pants, Shop Coats, and Aprons.
Claims use since June 1, 1929.

Ser. No. 292,051. SAXONE SHOE CO. LIMITED, Kilmarnock, Scotland. Filed Nov. 5, 1929.

SAXONE

For Leather Boots and Shoes with Uppers Wholly or Mainly of Leather, Soles Wholly of Leather or of Alternative Soling Materials, Including Rubber Soles.
Claims use since Jan. 26, 1911.

Ser. No. 292,407. LEBANON SHIRT COMPANY, Lebanon, Lititz, Lexington, and Hebron, Pa., and New York, N. Y. Filed Nov. 14, 1929.

WHITE HOUSE

For Men's and Boys' Dress, Negligee, and Work Shirts.
Claims use since Sept. 1, 1929.

Ser. No. 292,811. LEPSELTER & HOFFER, New York, N. Y. Filed Nov. 23, 1929.

ORIGINATORS

The lines shown on the drawing are to indicate shading. Applicant hereby disclaims exclusive right to the use of the word "Originators" except as the same is used in connection with the other features of the mark shown on the drawing.
For Men's Outer, Dress, Negligee, and Work Shirts, Neckties, Pajamas, Underwear of Knitted and Textile Fabrics, Collars, Leather Gloves, Hosiery, Mufflers, Garters, Suspenders, Belts in the Nature of Garment Supporters, Bathrobes, Dressing Gowns, Spats, Knickerbockers and Flannel Trousers, Sweaters, Night Shirts, and Vests.
Claims use since 1928.

Ser. No. 293,141. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Dec. 2, 1929.



For Boots and Shoes of Leather.
Claims use since Nov. 5, 1929.

Ser. No. 294,414. J. C. BOSSONG & CO., INC., New York, N. Y. Filed Jan. 6, 1930.

PRESTIGE HOSIERY

No claim is made to the word "Hosiery" apart from the mark shown on the drawing.
For Hosiery.
Claims use since Apr. 6, 1928.

Ser. No. 294,589. NORWICH KNITTING COMPANY, Norwich, N. Y. Filed Jan. 9, 1930.

Champknit



The drawing being lined to indicate the color blue.
For Union Suits, Undershirts, and Drawers for Men, Women, and Children.
Claims use since May, 1927.

Ser. No. 294,728. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind. Filed Jan. 13, 1930.

SKY-WAY



SPECIAL

The word "special" is hereby disclaimed apart from the mark as shown.
For Canvas Work Gloves.
Claims use since Apr. 1, 1929.

Ser. No. 294,729. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind. Filed Jan. 13, 1930.

AIR-MAN



SPECIAL

The word "Special" is hereby disclaimed apart from the mark as shown.
For Canvas Work Gloves.
Claims use since Apr. 1, 1929.

Ser. No. 294,730. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind. Filed Jan. 13, 1930.

AIR-PORT



SPECIAL

The word "Special" is hereby disclaimed apart from the mark as shown.
For Canvas Work Gloves.
Claims use since Apr. 1, 1929.

Ser. No. 295,178. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind. Filed Jan. 24, 1930.

T.A.T

SPECIAL

The word "Special" is hereby disclaimed apart from the mark as shown.
For Canvas Work Gloves.
Claims use since Apr. 1, 1929.

Ser. No. 295,409. WASHINGTON MANUFACTURING COMPANY, Nashville, Tenn. Filed Jan. 30, 1930.

TAXI-KLOTH

No claim is made to the word "Kloth" apart from the mark as shown.
For Work Shirts.
Claims use since Nov. 11, 1929.

Ser. No. 295,496. N. SCHWEIGER HAT CO., New York, N. Y. Filed Feb. 1, 1930.



For Hats, Hat Crowns, and Scarfs for Women.
Claims use since Jan. 28, 1930.

Ser. No. 295,650. CORA U. WILLIAMS, Los Angeles, Calif. Filed Feb. 5, 1930.

Nu-Zada

For Brassières.
Claims use since Jan. 8, 1930.

Ser. No. 295,786. DOLLY DRESS CO., INC., Derby, Conn. Filed Feb. 8, 1930.

Dolly Maid

For Infants', Children's, Juniors', and Misses' Dresses.
Claims use since Jan. 1, 1926.

Ser. No. 295,841. THE FULWEAR HOSIERY MILLS, Columbus, Ga. Filed Feb. 10, 1930.

Fulwear

For Hosiery.
Claims use since on or about June 1, 1929.

Ser. No. 295,878. E. T. WRIGHT & COMPANY, INC., Rockland, Mass. Filed Feb. 10, 1930. Under 10-year proviso.

THE Wright SHOE FOR MEN

For Leather and Canvas Boots and Shoes.
Claims use since about 1876.

Ser. No. 295,926. DAINTY TINY TOGS, INC., New York, N. Y. Filed Feb. 12, 1930.

Whoopee Suits

No claim is made to the word "Suits" apart from the mark shown on the drawing.
For Baby Boys' Suits.
Claims use since April, 1929.

Ser. No. 295,952. NATIONAL BELLAS HESS CO. INC., New York, N. Y. Filed Feb. 12, 1930.

LUCKY DAY

For Men's and Boys' Overalls and Work Shirts.
Claims use since about Feb. 1, 1930.

Ser. No. 296,003. ENID MANUFACTURING CO. INC., New York, N. Y. Filed Feb. 14, 1930.

"Gilé"

For Brassières, Garter Belts, and Girdles.
Claims use since Jan. 1, 1929.

Ser. No. 296,005. ENID MANUFACTURING CO. INC., New York, N. Y. Filed Feb. 14, 1930.

A-Jabot

For Brassières, Garter Belts, and Girdles.
Claims use since Jan. 1, 1929.

Ser. No. 296,014. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Feb. 14, 1930.

VATONO

For Negligee and Dress Shirts.
Claims use since Jan. 27, 1930.

Ser. No. 296,015. KAYLON INCORPORATED, Troy and New York, N. Y. Filed Feb. 14, 1930.

POYNTONO

For Negligee and Dress Shirts.
Claims use since Jan. 27, 1930.

Ser. No. 296,083. SONNEBORN BROTHERS, INC., New York, N. Y. Filed Feb. 15, 1930.

BORNWICK

For Boys' and Young Men's Coats, Vests, Trousers, and Overcoats.
Claims use since January, 1930.

Ser. No. 296,084. SONNEBORN BROTHERS, INC., New York, N. Y. Filed Feb. 15, 1930.

BORNSTEAD

For Boys' and Young Men's Coats, Vests, Trousers, and Overcoats.
Claims use since January, 1930.

Ser. No. 296,095. S. B. WRIGHT, doing business as Wright Products Co., Chicago, Ill. Filed Feb. 15, 1930.

DUPLEX

For Heel Pad and Hose Protector.
Claims use since Feb. 7, 1928.

Ser. No. 296,117. THE LEON GODCHAUX CLOTHING CO. LTD., New Orleans, La. Filed Feb. 17, 1930.

Dashley

For Men's, Boys', Women's, and Children's Suits and Overcoats.
Claims use since on or about Oct. 1, 1927.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 294,888. JOSEPH PELLEGRIN, New York, N. Y. Filed Jan. 17, 1930.

100%

For Shoe Laces.
Claims use since on or about Dec. 15, 1929.

Ser. No. 295,990. ASSEMBLED PRODUCTS COMPANY, INC., New York, N. Y. Filed Feb. 14, 1930.

ROSE of ARABY



For Cotton Bias Binding, Silk Bias Binding, and Rayon Bias Binding.
Claims use since Jan. 1, 1930.

CLASS 41

Canes, Parasols, and Umbrellas

Ser. No. 295,789. THE FINK & EASTER COMPANY, Baltimore, Md. Filed Feb. 8, 1930.

SERVUSOL

For Umbrellas and Parasols.
Claims use since Jan. 15, 1930.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 280,329. EDWIN FIELD & SONS, LIMITED, Skelmanthorpe, near Huddersfield, England. Filed Mar. 6, 1929.

SKEL-RAY

For Floor Rugs and Mats in the Nature of Textile Pile Fabrics Composed of Mohair, Jute, and Cotton.
Claims use since Jan. 1, 1929.

Ser. No. 288,328. GOLDSTEIN-WILKINS CORPORATION, New York, N. Y. Filed Aug. 9, 1929.



Vogue Fabrics

The words "Fabrics" and "Vogue" are disclaimed when used apart from the mark shown on the drawing.
For Silk Piece Goods, Artificial-Silk Piece Goods, Piece Goods Consisting of Mixtures of Silk, Cotton, and Artificial Silk, and Chiffons in the Piece.
Claims use since June 25, 1929.

Ser. No. 288,329. GOLDSTEIN-WILKINS CORPORATION, New York, N. Y. Filed Aug. 9, 1929.



Vogue Silks

The word "Silk" is disclaimed when used apart from the mark shown on the drawing. The word "Vogue" is disclaimed also.
For Silk Piece Goods, Artificial-Silk Piece Goods, Piece Goods Consisting of Mixtures of Silk, Cotton, and Artificial Silk, and Chiffons in the Piece.
Claims use since June 15, 1929.

Ser. No. 291,771. THE JAEGER COMPANY, INC., New York, N. Y. Filed Oct. 30, 1929. Under 10-year proviso.

JAEGER

For Woolen Rugs, Woolen Blankets, Vehicle Robes Made of Pure Camel Hair Vicuna and Pure Wool.
Claims use since Apr. 19, 1887.

Ser. No. 293,475. THE LEAKSVILLE WOOLEN MILLS, INC., Charlotte, N. C. Filed Dec. 10, 1929.

LEAKSVILLE

"FAST FRIENDS"

BLANKETS

The words "Leaksville" and "Blankets" are disclaimed apart from the mark as shown.
For Part-Wool (Wool and Cotton) Blankets.
Claims use since Nov. 18, 1929.

Ser. No. 294,670. THE HERRMANN HANDKERCHIEF CO., INC., New York, N. Y. Filed Jan. 11, 1930.

HOLD FAST HEM



No claim is made to the term "Hold Fast Hem" apart from the mark as shown.
For Handkerchiefs.
Claims use since Dec. 12, 1929.

Ser. No. 295,299. BERTRAM GOLDBERG, Johnstown, N. Y. Filed Jan. 28, 1930.

TRIANIZE

For Warp Knit Fabrics Made from Pure Jap Silk and Tubise Rayon Yarn or Any Other Synthetic Yarn for Knit Fabrics Made from Silk and Rayon and Synthetic Fibres.
Claims use since Jan. 24, 1930.

Ser. No. 295,304. MUNCY TEXTILE COMPANY, Muncy, Pa. Filed Jan. 28, 1930.

MUNCY



The lining on the drawing is intended to indicate shading. The picture on the drawing is fanciful. The name "Muncy" is disclaimed apart from the mark shown on the drawing.
For Wool Bed Blankets in Plaid, Plain Colors, and Fancies.
Claims use since December, 1929.

Ser. No. 295,338. MADISON WOOLEN COMPANY, Madison, Me. Filed Jan. 29, 1930.

CASH-O-RAN

The drawing being lined to indicate shading only.
For Woolen Piece Goods and Woolen Piece Goods Especially Adapted for Ladies' Coats.
Claims use since Aug. 1, 1927.

Ser. No. 295,408. WASHINGTON MANUFACTURING COMPANY, Nashville, Tenn. Filed Jan. 30, 1930.

TAXI-KLOTH

No claim is made to the word "Kloth" apart from the mark as shown.
For Cotton Piece Goods for Making Shirts.
Claims use since Nov. 11, 1929.

Ser. No. 295,808. PENN WORSTED COMPANY, Philadelphia, Pa. Filed Feb. 8, 1930.

Mohano

For Cotton-Warp Worsted with Specially-Prepared Wrapped Hair-Yarn Filling.
Claims use since January, 1914.

Ser. No. 295,932. DETMER, BRUNER & MASON, INC., New York, N. Y. Filed Feb. 12, 1930.

Rockingham Fabrics

The words "Rockingham" and "Fabrics" being disclaimed apart from the mark shown.
For Woolen and Worsted Fabrics in the Piece.
Claims use since Jan. 29, 1930.

Ser. No. 295,958. SOCIETE A RESPONSABILITE LIMITEE RODIER, Paris, France. Filed Feb. 12, 1930.

TUSLIC

For Piece Goods of Wool, Cotton, and Silk and Mixtures of the Same.
Claims use since Sept. 20, 1929.

Ser. No. 296,041. WM. E. WRIGHT & SONS CO., Orange, N. J. Filed Feb. 14, 1930.

LUSTERAY

For Ribbons in the Piece Made of Silk, Rayon, Cotton, and/or Any Combination Thereof.
Claims use since Jan. 8, 1930.

CLASS 43

Thread and Yarn

Ser. No. 295,803. MONOMAC SPINNING COMPANY, Boston, Mass. Filed Feb. 8, 1930.

SOIE LAINGORA

No registration rights are claimed for the word "Soie" apart from the mark shown in the drawing.
For Yarns Composed of Silk, Wool, and Mohair.
Claims use since Jan. 10, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 294,293. CU-VEL COMPANY, Philadelphia, Pa. Filed Jan. 2, 1930.

Cu-Vel

For Manicure Sets Consisting of a Receptacle for the Preparation, a Receptacle for the Preparation to Allow of the Insertion of the Finger to Effect the Nail Bath, and a Container for Both Receptacles.
Claims use since Dec. 13, 1929.

Ser. No. 294,357. MARIAN W. JORDAN, Los Angeles, Calif. Filed Jan. 3, 1930.

Gum-X

For Exercising Devices for the Teeth and Gums.
Claims use since Feb. 1, 1929.

Ser. No. 294,991. DAVID LEE O'SULLIVAN, New York, N. Y. Filed Jan. 20, 1930.

Contra-SEPTO

For Vaginal Sprayer.
Claims use since July 1, 1929.

Ser. No. 295,218. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn. Filed Jan. 25, 1930.

Titan

For Electric Heating Pads Used for Therapeutic Purposes.
Claims use since on or about Aug. 1, 1929.

Ser. No. 295,214. THE FITZGERALD MANUFACTURING COMPANY, Torrington, Conn. Filed Jan. 25, 1930.

Vulcan

For Electric Heating Pads Used for Therapeutic Purposes.
Claims use since on or about Aug. 1, 1929.

Ser. No. 295,401. TRIO SPECIALTY COMPANY, INC., New York, N. Y. Filed Jan. 30, 1930.

RTI

For Canvas Laced Stockings for Therapeutic Purposes.
Claims use since Mar. 9, 1929.

Ser. No. 295,772. DORIS E. CAMPBELL, doing business as Campbell X-Ray Company of Boston, Boston, Mass. Filed Feb. 7, 1930.

WAL-X

For X-Ray Apparatus.
Claims use since Apr. 25, 1929.

Ser. No. 295,883. AMERICAN HECOLITE DENTURE CORPORATION, Portland, Oreg. Filed Feb. 11, 1930.

Hecolite

For Artificial Denture Press.
Claims use since Apr. 30, 1926.

Ser. No. 295,972. CHARLES ARNAO COMPANY, Minneapolis, Minn. Filed Feb. 18, 1930.



For Electrical Hair Driers and Electrical Scalp Steamers.
Claims use since on or about Aug. 1, 1929.

CLASS 45

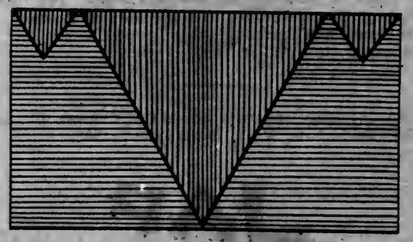
Beverages, Nonalcoholic

Ser. No. 288,445. GEORGE WALLACE, Jacksonville, Fla. Filed Aug. 12, 1929.



For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since Dec. 10, 1928.

Ser. No. 296,101. CALIFORNIA CRUSHED FRUIT CORPORATION, Los Angeles, Calif. Filed Feb. 17, 1930.



The drawing is lined to indicate red and blue coloring.
For Nonalcoholic, Maltless, Noncereal Beverages Sold as Soft Drinks and Syrups, Extracts, and Concentrates for Preparing the Same.
Claims use since on or about Dec. 1, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 257,535. DOMINICAN SUGAR REFINING COMPANY, C. POR A., Ingenio Boca Chica, Dominican Republic. Filed Nov. 14, 1927.



The words "Pure Cane," also "Fine Granulated," also "Sugar," also the term "Boca Chica," are disclaimed apart from the mark as shown in the drawing.
For Sugar.
Claims use since about Aug. 1, 1927.

Ser. No. 259,471. TACOMA BREWING CO., San Francisco, Calif. Filed Dec. 29, 1927.



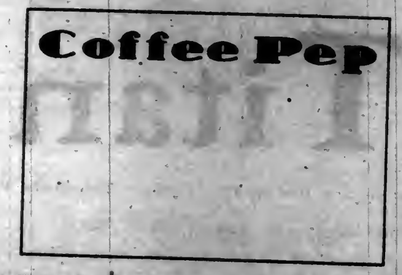
No claim is made to the words "Tacoma" and "Malt Syrup" apart from their use with the mark as shown.
For Cereal Malt Syrups.
Claims use since June 1 1927.

Ser. No. 267,645. DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928.



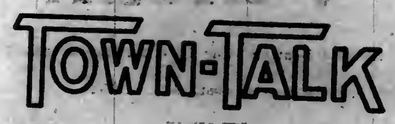
For Canned Salmon.
Claims use since July, 1908.

Ser. No. 277,327. ULTRA-VIOLET GENERATOR CORPORATION, Chicago, Ill. Filed Dec. 28, 1928.



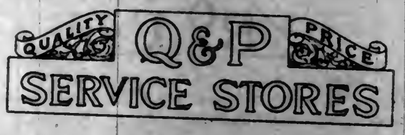
Applicant disclaims the word "Coffee" apart from the mark shown in the drawing.
For Sweetened and Coffee-Flavored Food Tablets.
Claims use since Nov. 8, 1928.

Ser. No. 278,857. TANNENBAUM BROTHERS, Chicago, Ill. Filed Feb. 4, 1929.



For Malted Milk.
Claims use since October, 1926.

Ser. No. 284,611. JACOB D. GROSSMAN, doing business as Narragansett Wholesale Grocery Co., Providence, R. I. Filed May 25, 1929.



No trade-mark rights per se are claimed for the words "Quality, Price," and "Service Stores" except in the association and arrangement shown.
For Canned Vegetables, Canned Fruits, Canned Berries, Pork and Beans, Canned Fish, Canned Evaporated Milk, Canned Soups, Table Syrups, Jams, Jellies, Vinegar, Olive Oil, Pickles, Peanut Butter, Breakfast Cereals, Tea, Coffee, Cocoa, Cocoanut, Black Pepper, Fruit Preserves, Olives, Dried Beef, Mayonnaise, Catsup, Chili Sauce, Mustard, Peppers, Canned Mincemeat, Canned Deviled Meat, Canned Corned Beef, Molasses, Rice, Macaroni, and Wheat Flour and Canned Molasses.
Claims use since May 20, 1929.

Ser. No. 287,658. GARNERS INC., Memphis, Tenn. Filed July 26, 1929.



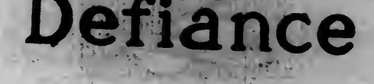
The lining used in the drawing of the mark is for the purpose of indicating the color red.
For Coffee.
Claims use since Apr. 10, 1929.

Ser. No. 290,951. HIGGINS AND BURKE, LIMITED, Toronto, Ontario, Canada. Filed Oct. 11, 1920.



For Coffee and Tea.
Claims use since Jan. 1, 1924.

Ser. No. 292,585. JOBBERS SERVICE INCORPORATED, Coldwater, Mich. Filed Nov. 18, 1929.



For Canned Vegetables—Namely, Wax Beans, Green Beans, Red Kidney Beans, Baked Beans with Tomato Sauce, Lima Beans, Sweet Corn, Hominy, Kraut, Peas, Pumpkin, Succotash, Tomatoes, Tomato Catsup, Canned Soup, Macaroni Products, Mincemeat, Spaghetti, and Spices, Apple Butter, Peanut Butter, Egg Noodles, Dried Currants.
Claims use since July 1, 1929.

Ser. No. 292,741. MOLINELLI GIANNUBA & RAO, INC., doing business as Mogira Products Co., Brooklyn, N. Y. Filed Nov. 22, 1929.



For Canned Tuna Fish, Peas, Corn, Italian Tomatoes, and String Beans; Olive Oil and Rice.
Claims use since Apr. 8, 1929.

Ser. No. 293,406. CENTRAL FARM PRODUCTS COMPANY, Waco, Tex. Filed Dec. 9, 1929.



For Dairy Cow Feed, Sweet Feed, Baby-Calf Feed, Beef Fattener, Swine Protein Supplement, Horse Sweet Feed, Egg-Laying Mash, Growing-Chick Mash, Chick Starter, Baby-Chick Scratch, Hen Scratch.
Claims use since Sept. 1, 1929.

Ser. No. 294,300. GREENBERG BROS. FARM PRODUCE, INC., New York, N. Y. Filed Jan. 2, 1930.



No claim is made for the words "Eggs and Butter" or to the notation "827 E. 161 St., New York," nor to the word "Brand" apart from the mark as shown on the drawing.
For Eggs.
Claims use since Sept. 27, 1921.

Ser. No. 294,384. R. L. GERHART, doing business as R. L. Gerhart & Co., Lancaster, Pa. Filed Jan. 4, 1930.



No claim is made to the words "It Satisfies" apart from the mark as shown.
For Coffee and Tea.
Claims use since 1901.

Ser. No. 294,396. DAVID H. MERRIAM, doing business as Ye House of John L. Bailey, Fitchburg, Mass. Filed Jan. 4, 1930.



For Candy.
Claims use since 1908.

Ser. No. 294,493. SUCHMAN & MCROBERTS, INC., doing business as Bay View Creamery, Jersey City, N. J. Filed Jan. 7, 1930.



The word "Creamery" is disclaimed apart from the mark as shown.
For Dairy Products—Namely, Butter.
Claims use since May, 1926.

Ser. No. No. 294,926. IGNAZIO NUCCIO, doing business as Orazi & Curiazi Olive Oil Company, Cleveland, Ohio. Filed Jan. 18, 1930.



The words "Olive Oil" and "Trade Mark" are disclaimed apart from the picture or mark shown. The drawing is lined for green and red.
For Compounds of Olive Oil and Cottonseed Oil.
Claims use since December, 1928.

Ser. No. 295,136. ROCKINGHAM MILLING COMPANY, Harrisonburg, Va. Filed Jan. 23, 1930.



The picture of the girl is fanciful.
For Wheat Flour.
Claims use since Jan. 1, 1921.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 295,187. THE NEW YORKER HOTEL CORPORATION, New York, N. Y. Filed Jan. 24, 1930.



The words "New Yorker" and "Bonbonettes" are disclaimed apart from the mark shown.
For Candies and Chocolates.
Claims use since Jan. 16, 1930.

Ser. No. 295,188. PACIFIC EGG PRODUCERS COOPERATIVE, INC., New York, N. Y. Filed Jan. 24, 1930.



For Eggs and Dressed Poultry.
Claims use since Nov. 27, 1929.

Ser. No. 295,221. INLAND MILLING COMPANY, Des Moines, Iowa. Filed Jan. 25, 1930.



The picture being fanciful on the drawing.
For Wheat Flour.
Claims use since July 24, 1928.

Ser. No. 295,223. INLAND MILLING COMPANY, Des Moines, Iowa. Filed Jan. 25, 1930.



The picture being fanciful on the drawing. The lining indicates shading only.
For Wheat Flour.
Claims use since Sept. 19, 1928.

Ser. No. 295,237. THE RATH PACKING COMPANY, Waterloo, Iowa. Filed Jan. 25, 1930.



For Lard and Smoked Picnic Hams.
Claims use since Dec. 1, 1926.

Ser. No. 295,254. GIUSEPPE CITTI, Chicago, Ill. Filed Jan. 27, 1930.



For the purposes of registration no claim is made to the word "Brand" apart from the mark shown.
For Olive Oil.
Claims use since Dec. 27, 1929.

Ser. No. 295,268. JOHN F. JELKE COMPANY, Hillsboro, Wis. Filed Jan. 27, 1930.

CAPITOL

For Evaporated Milk.
Claims use since about January, 1928.

Ser. No. 295,314. ZIMMERMAN BROS., Lock Haven, Pa. Filed Jan. 28, 1930.

PHYLLIS XXXXX

For Malt Syrup.
Claims use since June 1, 1929.

Ser. No. 295,412. JAY W. WHEELER, doing business as Los Angeles Grain and Feed Company, Los Angeles, Calif. Filed Jan. 28, 1930.



Applicant disclaims and waives his interest in all of the wording shown in the drawing filed except the word "Masterfat."
For Poultry Feed.
Claims use since Jan. 2, 1929.

Ser. No. 295,538. SAN JOAQUIN COTTON OIL COMPANY, Los Angeles, Calif. Filed Feb. 3, 1930.

HULMO

For Cattle Feed—Namely, Cottonseed Meal.
Claims use since Dec. 31, 1929.

Ser. No. 295,626. MANNINGS, INC., San Francisco, Calif. Filed Feb. 5, 1930.



The words "Mannings, Coffee, Fresh" are disclaimed except as used in connection with the balance of the mark as shown.
For Coffee.
Claims use since Dec. 30, 1929.

Ser. No. 295,649. MORRIS WEISS, doing business as Sheepshead Malt Products Co., Brooklyn, N. Y. Filed Feb. 5, 1930.

KLONDIKE BRAND
"Good as Gold"

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing.
For Malt Syrup for Food Purposes.
Claims use since December, 1929.

Ser. No. 295,684. WILLIAM F. MULHERIN, doing business as Excelsior Supply Company, Syracuse, N. Y. Filed Feb. 6, 1930.

CANADIAN RESERVE

For Malt Syrup.
Claims use since June, 1920.

Ser. No. 295,686. MY OWN COMPANY, Indianapolis, Ind. Filed Feb. 6, 1930.

My Own

For Canned Milk—viz, Condensed and Evaporated Milk.
Claims use since July, 1922.

Ser. No. 295,830. BOND PICKLE COMPANY, Oconto, Wis. Filed Feb. 10, 1930.

BOND'S SILVER KING KRAUT

The word "Kraut" is disclaimed except in association with the other features of the mark.
For Canned Sauerkraut.
Claims use since Jan. 20, 1930.

Ser. No. 295,991. FRANKLIN BAKER COMPANY, New York, N. Y. Filed Feb. 14, 1930. Under 10-year proviso.

BAKER'S

For Prepared Coconut.
Claims use since 1894.

Ser. No. 296,007. NATHAN FELDMAN, doing business as Felko Supply Co., New Brunswick, N. J. Filed Feb. 14, 1930.

LUCKY STAR

For Canned Malt Syrup.
Claims use since Jan. 27, 1930.

Ser. No. 296,057. GREEN BROTHERS COMPANY, doing business as Green Bros. Co., Springfield, Mass. Filed Feb. 15, 1930.

AIR MAIL

For Candy.
Claims use since Apr. 25, 1925.

Ser. No. 296,182. GENERAL CANDY CORPORATION, Chicago, Ill. Filed Feb. 18, 1930.

BIG ALARM

For Candy.
Claims use since January, 1930.

Ser. No. 296,240. ROANOKE CITY MILLS, INCORPORATED, Roanoke, Va. Filed Feb. 19, 1930.



For Wheat Flour.
Claims use since Feb. 13, 1930.

Ser. No. 296,282. JOE LOWE CORPORATION, Brooklyn, N. Y. Filed Feb. 20, 1930.

APEX

For Doughnuts.
Claims use since July 2, 1929.

Ser. No. 296,328. ELAM MILLS, INC., Chicago, Ill. Filed Feb. 21, 1930.

DEX

For Breakfast Cereal.
Claims use since about June 1, 1928.

CLASS 48

Malt Beverages and Liquors

Ser. No. 257,904. TACOMA BREWING CO., San Francisco, Calif. Filed Nov. 21, 1927.



No claim is made to the words "Tacoma" and "Brew" apart from their use with the mark as shown.

For Cereal Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol by Volume.

Claims use since 1920.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 287,146. WILLIAM H. LUTTON COMPANY, Jersey City, N. J. Filed July 15, 1929.



For Greenhouse Benches for Soil and Potted Plants, Plant Supports, Garden Frames for Plant-Propagating Beds and Greenhouse Shades of Wood or Other Suitable Material for Controlling the Light within the Greenhouses, and Constructive Parts of Such Plant Benches, Plant Supports, Garden Frames, and Greenhouse Shades—Namely, Steel Frames, Sills, T-Iron Cross-Bearers, Headers and Links.

Claims use since Mar. 18, 1929.

Ser. No. 292,976. CHARRED BAG COMPANY, Salisbury, N. C. Filed Nov. 27, 1929.

Ye
Olde Tyme

GILMAX'S

Charred-Bag

The words "Charred-Bag" are disclaimed apart from the other features of the mark shown in the drawing.

For Liquid Purifying Device Consisting of a Porous Container Having a Purifying Agent Consisting Principally of Charcoal Disposed Therein.

Claims use since August, 1929.

Ser. No. 294,939. THE ZAPON COMPANY, Wilmington, Del. Filed Jan. 18, 1930.



For Pyroxlin or Otherwise Coated Fabrics—Namely, Leather Cloth.

Claims use since Aug. 11, 1891.

Ser. No. 294,940. THE ZAPON COMPANY, Wilmington, Del. Filed Jan. 18, 1930.



For Pyroxlin or Otherwise Coated Fabrics—Namely, Leather Cloth.

Claims use since Aug. 11, 1891.

Ser. No. 294,941. THE ZAPON COMPANY, Wilmington, Del. Filed Jan. 18, 1930.

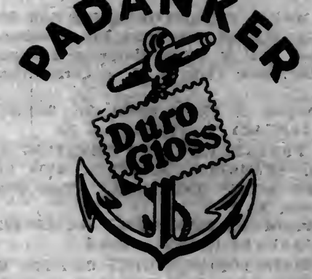


Applicant disclaims the right to the exclusive use of the word "Quality" as shown in the accompanying drawing except in association with the other features of the mark.

For Pyroxlin or Otherwise Coated Fabrics—Namely, Leather Cloth.

Claims use since Aug. 11, 1891.

Ser. No. 295,125. J. C. HAARTS COMPANY, New Haven, Conn. Filed Jan. 28, 1930.



No claim being made to the exclusive use of the word "Gloss" apart from the mark as shown in the drawing.

For Mats to be Used Under Rugs to Prevent Their Slipping.

Claims use since Jan. 15, 1930.

Ser. No. 295,286. WINDRAM MANUFACTURING CO., Boston, Mass. Filed Jan. 27, 1930.

MOOSETTE

For Waterproof Fabrics.

Claims use since Jan. 7, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 1, 1930

269,194. METAL PEDAL COUPLINGS FOR BICYCLES. STEVENS WALDEN-WORCESTER, INC., Worcester, Mass., assignor to D. P. Harris Hardware & Manufacturing Co. Inc., New York, N. Y., a Corporation of New York.
Filed August 8, 1929. Serial No. 288,288. PUBLISHED JANUARY 14, 1930. Class 19.

269,195. PREPARATION FOR TREATING RHEUMATISM, ARTHRITIS, SCIATICA, AND ALL MUSCULAR ACHES AND PAINS. TODD-WERNER CO., Kenmore, N. Y.
Filed August 13, 1929. Serial No. 288,491. PUBLISHED JANUARY 14, 1930. Class 6.

269,196. HAIR TONICS, TOILET WATERS, MASSAGE LOTIONS, ETC. ROBERT M. FROEHLICH, doing business as Right-O Products Company, New York, N. Y.
Filed August 14, 1929. Serial No. 288,519. PUBLISHED JANUARY 14, 1930. Class 6.

269,197. ESSENTIAL OILS, FLOWER ESSENCES, COLORS FOR PERFUMES, ETC. DODGE & OLCOTT COMPANY, New York, N. Y.
Filed August 21, 1929. Serial No. 288,786. PUBLISHED JANUARY 14, 1930. Class 6.

269,198. PAPER CUPS AND CONTAINERS THEREFOR. PAC-KUPS INCORPORATED, Easton, Pa.
Filed September 5, 1929. Serial No. 289,364. PUBLISHED JANUARY 21, 1930. Class 2.

269,199. HEATING UNITS, AIR HEATERS, STOKERS, ETC. B. F. STURTEVANT COMPANY, Hyde Park, Boston, Mass.
Filed September 13, 1929. Serial No. 289,767. PUBLISHED JANUARY 21, 1930. Class 34.

269,200. PICK SACKS. LITTLE ROCK TENT & AWNING CO., Little Rock, Ark.
Filed September 17, 1929. Serial No. 289,897. PUBLISHED JANUARY 14, 1930. Class 2.

269,201. INHALANT FOR THE RELIEF OF INFECTIONS OF THE NASAL CAVITY. HART CHEMICAL CO., Miami, Fla.
Filed October 30, 1929. Serial No. 291,766. PUBLISHED JANUARY 14, 1930. Class 6.

269,202. PREPARATIONS, ALTERATIVE, AND MEDICINAL COMPOUND. JAMES ALLAN IRELAND PARKER, Baltimore, Md.
Filed October 29, 1929. Serial No. 291,735. PUBLISHED JANUARY 14, 1930. Class 6.

269,203. NAME PLATES, WATERERS, FEEDERS, POULTRY NESTS, ETC. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 28, 1929. Serial No. 291,671. PUBLISHED JANUARY 21, 1930. Class 50.

269,204. STEEL SUPPORTING COLUMNS, METAL WINDOW FOR HOG HOUSES, ETC. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed October 28, 1929. Serial No. 291,667. PUBLISHED JANUARY 21, 1930. Class 12.

269,205. RUG CUSHION PADS. WARREN-ALLEN CARPET COMPANY, Boston, Mass., and Cleveland, Ohio.
Filed October 25, 1929. Serial No. 291,597. PUBLISHED JANUARY 21, 1930. Class 50.

269,206. POCKET-FORMING ELEMENTS OF PASTEBOARD OR OTHER FIBROUS MATERIAL FOR LINING AND INSULATING BUILDING WALLS. AMERICAN INSULATING CO., Detroit, Mich.
Filed October 22, 1929. Serial No. 291,876. PUBLISHED JANUARY 21, 1930. Class 12.

269,207. DISINFECTANTS, FLY SPRAY, TEXTILE SOFTENER, ETC. LAUREL SOAP MANUFACTURING CO., INC., Philadelphia, Pa.
Filed October 19, 1929. Serial No. 291,279. PUBLISHED JANUARY 14, 1930. Class 6.

269,208. BICYCLES. MONTGOMERY WARD & CO. INCORPORATED, Chicago, Ill.
Filed October 16, 1929. Serial No. 291,182. PUBLISHED JANUARY 21, 1930. Class 19.

269,209. BARREL TRUCKS CONVERTIBLE TO PORTABLE STANDS. SOUTHWEST PUMP COMPANY, Bonham, Tex.
Filed October 11, 1929. Serial No. 290,980. PUBLISHED JANUARY 14, 1930. Class 19.

269,210. MEDICINAL PREPARATION FOR THE TREATMENT OF COUGHS AND SORENESS OF THE THROAT. MACANDREWS & FORBES COMPANY, Camden, N. J.
Filed October 3, 1929. Serial No. 290,580. PUBLISHED JANUARY 14, 1930. Class 6.

269,211. SLACKED LIME IN POWDERED FORM. GAGER LIME MANUFACTURING CO., Sherwood and Chattanooga, Tenn.
Filed October 2, 1929. Serial No. 290,509. PUBLISHED JANUARY 21, 1930. Class 12.

269,212. LIME IN THE LUMP QUICK STATE AND ALSO HYDRATED LIME. GAGER LIME MANUFACTURING CO., Sherwood and Chattanooga, Tenn.
Filed October 2, 1929. Serial No. 290,508. PUBLISHED JANUARY 21, 1930. Class 12.

269,213. ELECTRICALLY-OPERATED VENTILATORS AND ELECTRICALLY-OPERATED EXHAUST FANS. ELECTROVENT CORPORATION, Detroit, Mich.
Filed September 18, 1929. Serial No. 289,921. PUBLISHED JANUARY 14, 1930. Class 34.

269,214. GASOLINE-OPERATED CRANES, DITCHERS, RAILROAD SHOVELS, AND GRADING DEVICES KNOWN AS SKIMMER SCOOPS AND PARTS THEREOF. BYERS MACHINE COMPANY, Ravenna, Ohio.
Filed April 13, 1927. Serial No. 247,355. PUBLISHED JANUARY 21, 1930. Class 23.

269,215. WRISTBANDS, WRIST SUPPORTS, AND WRIST DEVELOPERS. THE OHIO TRUSS COMPANY, Cincinnati, Ohio.
Filed September 7, 1926. Serial No. 236,952. PUBLISHED JANUARY 14, 1930. Class 44.

269,216. LAVATORIES, DRINKING FOUNTAINS, BIDETS, WATER-CLOSETS, WATER-CLOSET TANKS, ROBE HANGERS, TOWEL HOLDERS, TOILET-PAPER HOLDERS, SHOWER HEADS, BRACKETS, SHELVES, GLASS HOLDERS, SPONGE HOLDERS, COMB AND BRUSH HOLDERS, SOAP HOLDERS, TOOTHBRUSH HOLDERS, GRAB RAILS, BOLT CAPS, AND FLUSH-PIPE HOUSINGS. THOMAS MADDOCK'S SONS CO., Trenton, N. J.
Filed December 19, 1925. Serial No. 224,921. PUBLISHED FEBRUARY 23, 1926. Class 13.

269,217. GOLF BALLS. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed January 26, 1925. Serial No. 208,637. PUBLISHED JANUARY 14, 1930. Class 22.

269,218. FOOT CORRECTIVE APPLIANCES—TO WIT, ARCH SUPPORTS AND PARTS THEREOF, TOE SEPARATORS AND STRAIGHTENERS, HEEL SUPPORTS, CUSHIONS, AND STRAIGHTENERS, ANKLE SUPPORTS, BUNION REDUCERS, BUNION SPRINGS, HAMMERTOE SPRINGS, CORN AND BUNION PADS, AND CORN AND BUNION PLASTERS. SCHOLL MANUFACTURING COMPANY, INC., Chicago, Ill.
Filed December 1, 1924. Serial No. 206,092. PUBLISHED FEBRUARY 3, 1925. Class 44.

269,219. SPINNERS. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed June 3, 1929. Serial No. 284,980. PUBLISHED JANUARY 14, 1930. Class 22.

269,220. ASPHALT. SUBURBAN CONSTRUCTION COMPANY, Ardmore, Pa.
Filed May 20, 1929. Serial No. 284,875. PUBLISHED OCTOBER 15, 1929. Class 12.

269,221. ASPHALT. SUBURBAN CONSTRUCTION COMPANY, Ardmore, Pa.
Filed May 20, 1929. Serial No. 284,874. PUBLISHED OCTOBER 15, 1929. Class 12.

269,222. PREPARATION FOR CONTAGIOUS ABORTION IN CATTLE. OTTO S. SHASKY, Minneapolis, Minn.
Filed May 15, 1929. Serial No. 284,085. PUBLISHED JANUARY 7, 1930. Class 6.

269,223. RAW OCHERS, PIGMENTS FOR GENERAL USE. STÉ DES OCRES DU MIDI, Paris, France.
Filed May 9, 1929. Serial No. 283,763. PUBLISHED DECEMBER 24, 1929. Class 6.

269,224. FLY EXTERMINATOR, POULTRY TONIC, ROUP TREATMENT, ETC. VITEX COMPANY, INC., Kansas City, Mo.
Filed May 4, 1929. Serial No. 283,523. PUBLISHED JANUARY 7, 1930. Class 6.

269,225. BOTTLES, JARS, JUGS, DECANTERS, AND CRUETS, ALL MADE OF GLASS. OWENS-ILLINOIS GLASS COMPANY, Toledo, Ohio.
Filed May 1, 1929. Serial No. 283,344. PUBLISHED JANUARY 7, 1930. Class 33.

269,226. MOTOR COACHES, MOTOR BUSES AND MOTOR TRUCKS. C. H. WILL MOTORS CORPORATION, Minneapolis, Minn.
Filed April 8, 1929. Serial No. 282,082. PUBLISHED JANUARY 14, 1930. Class 19.

269,227. PREPARATION FOR USE AS A BUG AND VERMIN EXTERMINATOR, INSECT EXTERMINATOR, INSECT REPELLENT, DEODORANT, DISINFECTANT, AND A DRAINPIPE SOLVENT. CLEANWELL PRODUCTS CORP., St. Louis, Mo.
Filed April 8, 1929. Serial No. 282,023. PUBLISHED JANUARY 7, 1930. Class 6.

269,228. IRONING-MACHINE ROLLS, WASHTUBS, WRINGER ROLLS, IRONING-MACHINE PADS, ETC. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio.
Filed April 5, 1929. Serial No. 281,881. PUBLISHED JANUARY 21, 1930. Class 24.

269,229. EXTERNAL MEDICINE TO BE APPLIED TO THE BODY TO RELIEVE INFLAMMATION AND SORENESS. MRS. ELIZABETH HENDERSON, doing business as Kol-Sor-Ine Company, San Francisco, Calif.
Filed April 1, 1929. Serial No. 281,663. PUBLISHED JANUARY 7, 1930. Class 6.

269,230. CANNED FRUIT AND VEGETABLES. EDGETT-BURNHAM COMPANY, Newark, N. Y.
Filed March 23, 1929. Serial No. 281,205. PUBLISHED JANUARY 21, 1930. Class 46.

269,231. MEDICATED TABLETS TAKEN INTERNALLY AS TREATMENT FOR AILMENTS OF THE HUMAN STOMACH. CURRIER'S TABLETS INCORPORATED, Los Angeles, Calif.
Filed March 18, 1929. Serial No. 280,894. PUBLISHED NOVEMBER 12, 1929. Class 6.

269,232. PREPARATION FOR EXTERNAL APPLICATION IN THE TREATMENT OF BOILS, CARBUNCLES, AND SKIN ERUPTIONS. JESSIE C. CONKEY, doing business as Salbonal Co., Nortonville, Kans.
Filed March 11, 1929. Serial No. 280,542. PUBLISHED MAY 14, 1929. Class 6.

269,233. COASTER SLEDS. THE KALAMAZOO SLED COMPANY, Kalamazoo, Mich.
Filed March 7, 1929. Serial No. 280,399. PUBLISHED SEPTEMBER 3, 1929. Class 22.

269,234. PRINTED PERIODICAL PUBLISHED MONTHLY AND AT OTHER INTERVALS. MAGAZINE PUBLISHERS, INC., New York, N. Y.
Filed February 26, 1929. Serial No. 279,900. PUBLISHED APRIL 9, 1929. Class 38.

269,235. LAUNDRY WASHING MACHINES AND PARTS THEREOF. VOSS BROS. MFG. CO., Davenport, Iowa.
Filed February 18, 1929. Serial No. 279,580. PUBLISHED JANUARY 14, 1930. Class 24.

269,236. FOOD-FLAVORING EXTRACTS. PILSNER IMPORTING CO., New York, N. Y.
Filed January 16, 1929. Serial No. 278,056. PUBLISHED MARCH 19, 1929. Class 46.

269,237. SUITS, COATS, PANTS, VESTS, AND SKIRTS FOR MEN AND WOMEN. B. KIESHBAUM & COMPANY, Chicago, Ill.
Filed December 24, 1928. Serial No. 277,170. PUBLISHED JANUARY 14, 1930. Class 39.

269,238. MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATISM, SCIATICA, AND NEURITIS. THE NURITO CO., Chicago, Ill.
Filed December 21, 1928. Serial No. 277,077. PUBLISHED MARCH 5, 1929. Class 6.

269,239. CANNED FRUITS. SUTTER PACKING COMPANY, Mayfield, Calif.
Filed December 24, 1928. Serial No. 277,185. PUBLISHED MARCH 12, 1929. Class 46.

269,240. CIGARS. COMPAÑIA TABACALERA NACIONAL, S. A., Habana, Cuba.
Filed October 9, 1929. Serial No. 290,823. PUBLISHED JANUARY 21, 1930. Class 17.

269,241. CORK GRIPS FOR GOLF CLUBS AND SIMILAR SPORTING ARTICLES. P. J. DERBY & COMPANY LIMITED, Liverpool, England.
Filed September 25, 1929. Serial No. 290,210. PUBLISHED JANUARY 7, 1930. Class 22.

269,242. TOY GUNS. GREY IRON CASTING COMPANY, Mount Joy, Pa.
Filed November 27, 1929. Serial No. 292,990. PUBLISHED JANUARY 14, 1930. Class 22.

269,243. POWDER PUFFS AND ABSORBENT POWDER PUFFS. DAGGETT & RAMSDELL, New York, N. Y.
Filed November 25, 1929. Serial No. 292,857. PUBLISHED JANUARY 21, 1930. Class 29.

269,244. POWDER PUFFS AND ABSORBENT POWDER PUFFS. DAGGETT & RAMSDELL, New York, N. Y.
Filed November 25, 1929. Serial No. 292,852. PUBLISHED JANUARY 21, 1930. Class 29.

269,245. PLAYING CARDS. THURMAN HENDRICKS MCCOY, Atlanta, Ga.
Filed November 22, 1929. Serial No. 292,742. PUBLISHED JANUARY 14, 1930. Class 22.

269,246. SANITARY NAPKINS, SAN-NAP-PAK MFG. CO., INC., New York, N. Y.
Filed November 15, 1929. Serial No. 292,463. PUBLISHED JANUARY 14, 1930. Class 44.

269,427. THERAPEUTIC LAMPS AND MASSAGING AND VIBRATING APPARATUS. MARSHALL BRYMER, New York, N. Y.
Filed November 15, 1929. Serial No. 292,438. PUBLISHED JANUARY 7, 1930. Class 44.

269,248. WASHBOARDS. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed November 25, 1929. Serial No. 292,890. PUBLISHED JANUARY 21, 1930. Class 24.

269,249. WASHBOARDS. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed November 25, 1929. Serial No. 292,889. PUBLISHED JANUARY 21, 1930. Class 24.

269,250. WASHBOARDS. NATIONAL WASHBOARD COMPANY, Chicago, Ill.
Filed November 25, 1929. Serial No. 292,888. PUBLISHED JANUARY 21, 1930. Class 24.

269,251. CORD AND SQUARE WOVEN FABRICS. THE FISK RUBBER COMPANY, Chicopee Falls, Mass., and Cudahy, Wis.
Filed November 20, 1929. Serial No. 292,625. PUBLISHED JANUARY 21, 1930. Class 50.

269,252. CORD AND SQUARE WOVEN FABRICS. THE FISK RUBBER COMPANY, Chicopee Falls, Mass., and Cudahy, Wis.
Filed November 20, 1929. Serial No. 292,624. PUBLISHED JANUARY 21, 1930. Class 50.

269,253. STUCCO AND PLASTER. UNITED STATES GYPSUM COMPANY, Chicago, Ill.
Filed November 18, 1929. Serial No. 292,561. PUBLISHED JANUARY 21, 1930. Class 12.

269,254. PECTORAL COMPOUND FOR COUGHS, ASTHMA, AND BRONCHITIS, AND AN ANODYNE. LANMAN & KEMP, INC., New York, N. Y.
Filed November 18, 1929. Serial No. 292,539. PUBLISHED JANUARY 14, 1930. Class 6.

269,255. COD-LIVER OIL INCORPORATED IN A JELLY. CLO-JELL INCORPORATED, New York, N. Y.
Filed November 18, 1929. Serial No. 292,521. PUBLISHED JANUARY 14, 1930. Class 6.

269,256. MOTOR BOATS. CUTS-CRAFT COMPANY, Fall River, Mass.
Filed November 15, 1929. Serial No. 292,440. PUBLISHED JANUARY 14, 1930. Class 19.

269,257. PAPER BAGS. GEORGE W. SIMMONS CORPORATION, St. Louis, Mo., assignor to George W. Simmons Corporation, a Corporation of Missouri.
Filed November 13, 1929. Serial No. 292,373. PUBLISHED JANUARY 14, 1930. Class 2.

269,258. PAPER BAGS. GEORGE W. SIMMONS CORPORATION, St. Louis, Mo., assignor to George W. Simmons Corporation, a Corporation of Missouri.
Filed November 13, 1929. Serial No. 292,372. PUBLISHED JANUARY 14, 1930. Class 2.

269,259. FURNACES, HEATING SYSTEMS, AND PARTS THEREOF. P. H. MA GIRL FOUNDRY & FURNACE WORKS, Bloomington, Ill.
Filed November 13, 1929. Serial No. 292,366. PUBLISHED JANUARY 14, 1930. Class 34.

269,260. BLOWERS FOR USE WITH WARM-AIR FURNACES AND FOR VENTILATING PURPOSES. LAKESIDE COMPANY, Hermansville, Mich.
Filed November 13, 1929. Serial No. 292,361. PUBLISHED JANUARY 14, 1930. Class 34.

269,261. AEROPLANES. BUTLER AIRCRAFT CORPORATION, Kansas City, Mo.
Filed November 11, 1929. Serial No. 292,248. PUBLISHED JANUARY 21, 1930. Class 19.

269,262. LAUNDRY WASHING MACHINES. ALTORFER BROS. COMPANY, East Peoria, Ill.
Filed November 9, 1929. Serial No. 292,192. PUBLISHED JANUARY 14, 1930. Class 24.

269,263. DENTAL CREAM, TALCUM POWDER, MAGNESIA, ETC. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed November 7, 1929. Serial No. 292,139. PUBLISHED JANUARY 14, 1930. Class 6.

269,264. METAL CURTAIN RODS, EXTENSION BRACKETS, SOCKETS, COLLARS, AND T JOINTS. H. L. JUDD COMPANY, INC., New York, N. Y.
Filed November 7, 1929. Serial No. 292,112. PUBLISHED JANUARY 14, 1930. Class 18.

269,265. DEVICE FOR PRODUCING AND DISPENSING LATHER. SANITARY LATHEROLE CO. INC., Englewood, N. J.
Filed November 5, 1929. Serial No. 292,050. PUBLISHED JANUARY 21, 1930. Class 18.

269,266. MEDICINE FOR RELIEF IN CASES OF TUBERCULOSIS. LAMB & HILL, McClure, Ill.
Filed November 4, 1929. Serial No. 291,985. PUBLISHED JANUARY 14, 1930. Class 6.

269,267. PLUGS FOR PAPER ROLLS. KENNETH F. LAWSON, doing business as Paper Roll Plug Company, Menasha, Wis.
Filed October 31, 1929. Serial No. 291,836. PUBLISHED JANUARY 21, 1930. Class 2.

269,268. CANNED FRUITS, VEGETABLES, FISH, ETC. SMART & FINAL CO., Wilmington, Calif.
Filed July 18, 1929. Serial No. 287,097. PUBLISHED JANUARY 14, 1930. Class 46.

269,269. ANTIMONIUM, ARGENTUM, ARSENICUM, ETC. BRITISH COLLOIDS LTD., London, England, assignor to Crookes Laboratories Incorporated, New York, N. Y.
Filed December 7, 1928. Serial No. 276,404. PUBLISHED OCTOBER 8, 1929. Class 6.

269,270. PERAMBULATORS, BABY CARRIAGES AND CARS, BICYCLES AND TRICYCLES. TAN SAD, LIMITED, Birmingham, England.
Filed November 26, 1928. Serial No. 275,860. PUBLISHED JANUARY 14, 1930. Class 19.

269,271. SANDWICH DRESSING. LINDER AND LINDER, doing business as A. J. Linder and Co., Rockford, Ill.
Filed November 23, 1928. Serial No. 275,737. PUBLISHED JANUARY 14, 1930. Class 46.

269,272. BATH PREPARATIONS OF THE NATURE OF A DEODORANT CONTAINING SULPHUR, PINE OILS, AND VAPOROUS ELEMENTS FOR INTERNAL AND EXTERNAL USE. CLIFFORD M. COLE, doing business as Cole-Gano Pharmacal Company, Los Angeles, Calif.
Filed November 20, 1928. Serial No. 275,560. PUBLISHED JANUARY 7, 1930. Class 6.

269,273. TONIC AND SHAMPOO FOR THE TREATMENT OF THE HAIR AND SCALP, ASTRINGENTS, AND COLD CREAM. CATHERINE C. FENTON, doing business as The Fenton Laboratories Incorporated, Waterbury, Conn.
Filed November 17 1928. Serial No. 275,435. PUBLISHED JANUARY 14, 1930. Class 6.

269,274. REFRIGERATING APPARATUS AND REFRIGERATORS. THE CROSLEY RADIO CORPORATION, Cincinnati, Ohio.
Filed November 15, 1928. Serial No. 275,329. PUBLISHED JANUARY 14, 1930. Class 31.

269,275. FAT-REDUCING CREAMS. JOHN W. CALVERT, doing business as Hollywood U-Reduce Company, Hollywood and Sacramento, Calif.
Filed September 21, 1928. Serial No. 272,748. PUBLISHED FEBRUARY 5, 1929. CLASS 6.

269,276. FILLER CAPS OF AUTOMOBILE RADIATORS. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn.
Filed September 14, 1928. Serial No. 272,389. PUBLISHED JANUARY 15, 1929. Class 19.

269,277. AUTOMATIC ELECTRICALLY CONTROLLED AND OPERATED FUEL HEATING SYSTEMS, INCLUDING THE ELECTRICALLY-OPERATED CONTROLS THEREFOR. WILLIAMS OIL-O-MATIC HEATING CORPORATION, Bloomington, Ill.
Filed September 13, 1928. Serial No. 272,374. PUBLISHED JANUARY 21, 1930. Class 34.

269,278. DOOR, WINDOW, AND WALL VENTILATORS; VENTILATING FANS, LOUVERS, AND GRILLES; LAMP STANDARDS, TABLE OR STAND LAMPS ADAPTED FOR VARIOUS FUELS; AND LAMP SHADES OF PAPER, PARCHMENT, CELLULOSE FABRIC, METAL, AND COMBINATIONS OF GLASS AND METAL. THE CINCINNATI VICTOR COMPANY, Cincinnati, Ohio.
Filed August 7, 1929. Serial No. 288,222. PUBLISHED JANUARY 21, 1930. Class 34.

269,279. CLEANSING AND REVITALIZING COMPOUND. THE ILLINOIS INK CORPORATION, Chicago, Ill.
Filed July 24, 1929. Serial No. 287,580. PUBLISHED JANUARY 14, 1930. Class 6.

269,280. BATH POWDER. MOSES A. BRIN, doing business as Cupid's Laboratories Studio, Chicago, Ill.
Filed June 24, 1929. Serial No. 286,020. PUBLISHED NOVEMBER 12, 1929. Class 6.

269,281. FRESH MUSHROOMS. YODER BROTHERS, Barberton, Ohio.
Filed November 11, 1929. Serial No. 292,308. PUBLISHED JANUARY 21, 1930. Class 46.

269,282. CIGARS. NATIONAL GROCER COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,281. PUBLISHED JANUARY 21, 1930. Class 17.

269,283. GRAPE JUICE. NATIONAL GROCER COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,280. PUBLISHED JANUARY 21, 1930. Class 45.

269,284. BROOMS. NATIONAL GROCER COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,277. PUBLISHED JANUARY 21, 1930. Class 29.

269,285. COMPOUND OF COFFEE AND CHICORY. W. T. NICHOLS & COMPANY, INC., doing business as Empire Coffee & Spice Mills, Jackson, Miss.
Filed November 7, 1929. Serial No. 292,116. PUBLISHED JANUARY 21, 1930. Class 46.

269,286. CANNED FRUITS. SUTTER PACKING COMPANY, Mayfield, Calif.
Filed November 5, 1929. Serial No. 292,060. PUBLISHED JANUARY 21, 1930. Class 46.

269,287. FRESH VEGETABLES. SHEEHY & CUMMING, Watsonville, Calif.
Filed November 5, 1929. Serial No. 292,054. PUBLISHED JANUARY 21, 1930. Class 46.

269,288. SALTED PEANUTS. MILLER PEANUT PRODUCTS COMPANY, Detroit, Mich.
Filed November 2, 1929. Serial No. 291,925. PUBLISHED JANUARY 21, 1930. Class 46.

269,289. ELECTRICAL HAIR DRIERS AND HAIR-DRYING APPARATUS. CHARLES ARNAO COMPANY, Minneapolis, Minn.
Filed November 1, 1929. Serial No. 291,862. PUBLISHED JANUARY 14, 1930. Class 44.

269,290. TOY-AEROPLANE CONSTRUCTION SETS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 31, 1929. Serial No. 291,842. PUBLISHED JANUARY 7, 1930. Class 22.

269,291. AUTOMATIC COOKING MACHINES. AUTOMATIC COOKING MACHINE COMPANY, INC., New Bedford, Mass.
Filed October 15, 1929. Serial No. 291,078. PUBLISHED DECEMBER 24, 1929. Class 23.

269,292. AUTOMOBILE HOIST. GLOBE MACHINERY & SUPPLY COMPANY, Des Moines, Iowa.
Filed October 12, 1929. Serial No. 291,002. PUBLISHED JANUARY 21, 1930. Class 28.

269,293. PREPARATIONS OF AN ANTISEPTIC NATURE, GERMICIDES, AND DEODORANTS. ROSE-MARIE LEWIS, Los Angeles, Calif.
Filed December 2, 1929. Serial No. 293,143. PUBLISHED JANUARY 14, 1930. Class 6.

269,294. PROCESSED OIL FOR USE IN DYEING AND FINISHING TEXTILES. NEUTRASOL PRODUCTS CORPORATION, New York, N. Y.
Filed November 29, 1929. Serial No. 293,064. PUBLISHED JANUARY 7, 1930. Class 6.

269,295. SHAMPOO AND HAIR TONIC. C. H. GINTER, Santa Monica, Calif.
Filed November 29, 1929. Serial No. 293,042. PUBLISHED JANUARY 7, 1930. Class 6.

269,296. MEDICINE. FRED NOBLE WRIGHT, doing business as Wright Medicine Company, Federalsburg, Md.
Filed November 27, 1929. Serial No. 293,018. PUBLISHED JANUARY 7, 1930. Class 6.

269,297. PREPARATION FOR THE TREATMENT OF AFFECTIONS OF THE VENAL SYSTEMS AND FOR THE TREATMENT OF PHLEBITIS AND HEMORRHOIDS. ZÉLIS HARDY, Paris, France.
Filed December 7, 1929. Serial No. 293,370. PUBLISHED JANUARY 14, 1930. Class 6.

269,298. PREPARATION FOR THE TREATMENT OF AFFECTIONS OF THE VENAL SYSTEMS AND FOR THE TREATMENT OF PHLEBITIS AND HEMORRHOIDS. ZÉLIS HARDY, Paris, France.
Filed December 7, 1929. Serial No. 293,369. PUBLISHED JANUARY 14, 1930. Class 6.

269,299. MEDICAL PREPARATION FOR BURNS, SUNBURN, AND THE LIKE. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed November 27, 1929. Serial No. 293,000. PUBLISHED JANUARY 7, 1930. Class 6.

269,300. PREPARATION TO BE USED AS A HAIR TONIC FOR KEEPING THE HAIR IN PLACE AND FOR SETTING OF WAVES. SOLON PALMER, New York, N. Y.
Filed December 6, 1929. Serial No. 293,341. PUBLISHED JANUARY 14, 1930. Class 6.

269,301. MEDICINE FOR THE TREATMENT OF ACIDOSIS, HYPERACIDITY, INDIGESTION, AND NAUSEA. WATERBURY CHEMICAL COMPANY, INC., New York, N. Y.
Filed December 5, 1929. Serial No. 293,299. PUBLISHED JANUARY 14, 1930. Class 6.

269,302. MEDICINES AND PHARMACEUTICAL PREPARATIONS. WATERBURY CHEMICAL COMPANY, INC., New York, N. Y.
Filed December 5, 1929. Serial No. 293,298. PUBLISHED JANUARY 14, 1930. Class 6.

269,303. CHEMICALS USED FOR CLARIFYING WATER OF RUST, SEDIMENT, SALTS, IMPURITIES, AND THE LIKE. FEEDWATERS INCORPORATED, New York, N. Y.
Filed December 4, 1929. Serial No. 293,215. PUBLISHED JANUARY 14, 1930. Class 6.

269,304. MEDICINE FOR DISEASES OF THE NERVOUS SYSTEM. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed November 30, 1929. Serial No. 293,113. PUBLISHED JANUARY 14, 1930. Class 6.

269,305. SHIPPING CONTAINERS MADE PRINCIPALLY FROM CORRUGATED BOARD. IOWA FIBER BOX COMPANY, Keokuk, Iowa.
Filed November 30, 1929. Serial No. 293,100. PUBLISHED JANUARY 21, 1930. Class 2.

269,306. FRESH DECIDUOUS FRUITS. HOPLAND FRUIT GROWERS' ASSOCIATION, Hopland, Calif.
Filed December 9, 1929. Serial No. 293,429. PUBLISHED JANUARY 21, 1930. Class 46.

269,307. ELECTRIC CLOCKS. HANSEN MANUFACTURING COMPANY, INC., Princeton, Ind.
Filed December 9, 1929. Serial No. 293,427. PUBLISHED JANUARY 21, 1930. Class 27.

269,308. CLOCKS. THE REVERE CLOCK COMPANY, Cincinnati, Ohio.
Filed December 6, 1929. Serial No. 293,348. PUBLISHED JANUARY 21, 1930. Class 27.

269,309. CANDY. THE CHANDLER & RUDD COMPANY, doing business as The Chandler & Rudd Co., Cleveland, Ohio.
Filed December 5, 1929. Serial No. 293,264. PUBLISHED JANUARY 21, 1930. Class 46.

269,310. CIGARS. THE LOS RAMOS CIGAR COMPANY, Sidney, Ohio.
Filed December 3, 1929. Serial No. 293,186. PUBLISHED JANUARY 21, 1930. Class 17.

269,311. TIES AND CRAVATS. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed November 30, 1929. Serial No. 293,098. PUBLISHED JANUARY 14, 1930. Class 39.

269,312. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, MEN'S, WOMEN'S, AND CHILDREN'S COATS, ETC. ILONA K. GROSS, San Francisco, Calif.
Filed November 29, 1929. Serial No. 293,044. PUBLISHED JANUARY 14, 1930. Class 39.

269,313. MENTHOLATED ALCOHOL, WINE SPIRIT, SALT SPIRIT OR SALT BRANDY, RECOMMENDED AS A LINIMENT, AS A MOUTH WASH, ETC. DIANA IPARI ES KERESKEDELMI RESZVENYTARSASAG, Budapest, Hungary.
Filed January 27, 1928. Serial No. 260,721. PUBLISHED JANUARY 14, 1930. Class 6.

269,314. GERMICIDE AND ANTISEPTIC FOR THE PREVENTION OF MOUTH INFECTION. EWALD C. GLITSKE, doing business as The Pyro-Di Co., Kansas City, Mo.
Filed November 27, 1929. Serial No. 292,989. PUBLISHED JANUARY 7, 1930. Class 6.

269,315. PREPARATION FOR THE TREATMENT OF RINGWORM. SVEN MEDICINAL INCORPORATION, Omaha, Nebr.
Filed November 22, 1929. Serial No. 292,759. PUBLISHED JANUARY 7, 1930. Class 6.

269,316. SYNTHETIC DYES. SYDNEY M. TOOTAL, Blackpool, England.
Filed November 21, 1929. Serial No. 292,689. PUBLISHED JANUARY 14, 1930. Class 6.

269,317. VITAMINOUS DIETARY SUPPLEMENT. E. R. SQUIBB & SONS, New York, N. Y.
Filed November 21, 1929. Serial No. 292,687. PUBLISHED DECEMBER 31, 1929. Class 6.

269,318. COMPOUND SALVE HAIR GROWER. NELLIE HOLMES, doing business as Mme. Nellie Holmes, Philadelphia, Pa.
Filed November 20, 1929. Serial No. 292,629. PUBLISHED JANUARY 14, 1930. Class 6.

269,319. BEESWAX. THE W. H. BOWDLEAR COMPANY, Boston, Mass.
Filed November 14, 1929. Serial No. 292,390. PUBLISHED JANUARY 7, 1930. Class 6.

269,320. FACE CREAM. AMERICAN LANOLIN CORPORATION, Lawrence, Mass.
Filed November 14, 1929. Serial No. 292,384. PUBLISHED JANUARY 14, 1930. Class 6.

269,321. PREPARATION FOR EXTERMINATING INSECTS. AMERICAN OIL & DISINFECTANT CORPORATION, New York, N. Y.
Filed November 12, 1929. Serial No. 292,312. PUBLISHED JANUARY 14, 1930. Class 6.

269,322. PREPARATION FOR PROFESSIONAL USE IN THE RELIEF OF PAIN AND CONTROL OF FEVER INCIDENT TO PNEUMONIA, INFLUENZA, GRIPPE, COLDS, NEURITIS, LUMBAGO, NEURALGIA, SUN PAIN, AND PERIODICAL PAINS. KENNESAW MOUNTAIN CHEMICAL COMPANY, Marietta, Ga.
Filed November 8, 1929. Serial No. 292,171. PUBLISHED JANUARY 14, 1930. Class 6.

269,323. PREPARATION TO BE TAKEN INTERNALLY IN THE RELIEF AND TREATMENT OF INDIGESTION, HEADACHE, ETC. KENNESAW MOUNTAIN CHEMICAL COMPANY, doing business as 20-80 Laboratory, Marietta, Ga.
Filed November 8, 1929. Serial No. 292,170. PUBLISHED JANUARY 14, 1930. Class 6.

269,324. MEDICINAL PREPARATION FOR COLDS AND HEADACHES. WALKER M. K. BENDER, doing business as B. F. C. Chemical Co., Pollocksville, N. C.
Filed October 16, 1929. Serial No. 291,433. PUBLISHED JANUARY 7, 1930. Class 6.

269,325. AFTER-SHAVING LOTION. FLORIAN, INC., Des Moines, Iowa.
Filed October 9, 1929. Serial No. 290,827. PUBLISHED JANUARY 7, 1930. Class 6.

269,326. LAXATIVE. CLARENCE R. FARMER, Keokuk, Iowa.
Filed September 30, 1929. Serial No. 290,400. PUBLISHED JANUARY 7, 1930. Class 6.

269,327. COMPOUND FOR BURNS, ULCERS, ETC. LANCASTER INC., Los Angeles, Calif.
Filed August 30, 1929. Serial No. 289,195. PUBLISHED OCTOBER 22, 1929. Class 6.

269,328. LIQUID TOILET CREAMS, FACE POWDERS, ETC. POWDER PUFF SHOP, Minneapolis, Minn.
Filed August 17, 1929. Serial No. 288,665. PUBLISHED JANUARY 7, 1930. Class 6.

269,329. LIQUID TOILET CREAMS, FACE POWDERS, LIQUID SKIN COLORING, ETC. POWDER PUFF SHOP, Minneapolis, Minn.
Filed August 17, 1929. Serial No. 288,664. PUBLISHED JANUARY 7, 1930. Class 6.

269,330. TABLETS WHICH PRODUCE A REFRESHING AND ANTISEPTIC SOLUTION WHEN MIXED WITH WATER AND USED AS A VAGINAL DOUCHE, FACIAL ASTRINGENT, AND MOUTH WASH. DR. PIERRE CHEMICAL CO., Chicago, Ill.
Filed July 12, 1929. Serial No. 287,004. PUBLISHED JANUARY 14, 1930. Class 6.

269,331. DYE, PATENT-LEATHER FINISH AND EDGE, SHANK, AND HEEL INK USED IN THE MANUFACTURE AND REPAIR OF BOOTS AND SHOES. UNITED SHOE MACHINERY CORPORATION, Boston, Mass.
Filed June 29, 1929. Serial No. 286,398. PUBLISHED JANUARY 7, 1930. Class 6.

269,332. LAXATIVE FOR THE TREATMENT OF CONSTIPATION, SOUR STOMACH, SICK HEADACHE, INDIGESTION, BILIOUSNESS, ETC. FIRST TEXAS CHEMICAL MFG. CO., Dallas, Tex.
Filed June 17, 1929. Serial No. 285,667. PUBLISHED JANUARY 7, 1930. Class 6.

269,333. STOCKINGS. THE ARCH PRESERVER SHOE SHOP, INC., New York, N. Y.
Filed November 23, 1929. Serial No. 292,780. PUBLISHED JANUARY 14, 1930. Class 39.

269,334. TOOTH POWDER. PYCOPS INCORPORATED, Joplin, Mo.
Filed January 3, 1928. Serial No. 259,639. PUBLISHED JANUARY 14, 1930. Class 6.

269,335. SUGAR, REFINED AND RAW, SYRUPS, ETC. KOSHER SUGAR AND SYRUP CO., INC., New York, N. Y.
Filed October 26, 1927. Serial No. 256,630. PUBLISHED JANUARY 14, 1930. Class 46.

269,336. LADIES' PAJAMAS. OGDEN-UTAH KNITTING COMPANY, Ogden, Utah.
Filed October 11, 1927. Serial No. 255,923. PUBLISHED DECEMBER 18, 1927. Class 39.

269,337. ALMONDS, BABASSU NUTS, BRAZILS, ETC. CONTINENTAL NUT COMPANY, Seattle, Wash.
Filed May 31, 1928. Serial No. 267,243. PUBLISHED JANUARY 14, 1930. Class 46.

269,338. BANANA POWDER. BANANA FOOD PRODUCTS CORPORATION, Plainfield, N. J.
Filed November 9, 1929. Serial No. 292,196. PUBLISHED JANUARY 14, 1930. Class 46.

269,339. GELATIN. SWIFT AND COMPANY, Chicago, Ill.
Filed November 6, 1929. Serial No. 292,080. PUBLISHED JANUARY 14, 1930. Class 46.

269,340. CONDENSED MILK, EVAPORATED MILK, POWDERED MILK, MALTED MILK, AND CHEESE. NESTLE'S FOOD COMPANY, INC., New York, N. Y.
Filed November 2, 1929. Serial No. 291,930. PUBLISHED JANUARY 14, 1930. Class 46.

269,341. HOSIERY. S. HANDAL & BROS., New York, N. Y.
Filed October 26, 1929. Serial No. 291,615. PUBLISHED JANUARY 14, 1930. Class 39.

269,342. MALT SYRUP. ROBERT MONTGOMERY LYONS, doing business as Dreem Products Co., Philadelphia, Pa.
Filed October 12, 1929. Serial No. 291,010. PUBLISHED JANUARY 14, 1930. Class 46.

269,343. BATHING SUITS. MARTS KNITTING CO., Manitowoc, Wis.
Filed October 7, 1929. Serial No. 290,758. PUBLISHED JANUARY 14, 1930. Class 39.

269,344. MALT EXTRACTS AND MALT SUGARS. MALT-DIASTASE COMPANY, Brooklyn, N. Y.
Filed October 1, 1929. Serial No. 290,472. PUBLISHED JANUARY 14, 1930. Class 46.

269,345. MALT SYRUP. THE BACHRACH-FELD CO., doing business as Majestic Malt Co., Cincinnati, Ohio.
Filed September 9, 1929. Serial No. 289,492. PUBLISHED JANUARY 14, 1930. Class 46.

269,346. CHILDREN'S OVERALLS AND PLAY SUITS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed August 7, 1929. Serial No. 288,259. PUBLISHED JANUARY 14, 1930. Class 39.

269,347. EDIBLE HYDROGENATED FISH OIL IN SOLID FORM AND USED TO HARDEN EDIBLE LIQUID OIL. SWIFT AND COMPANY, Chicago, Ill.
Filed August 8, 1929. Serial No. 288,096. PUBLISHED JANUARY 14, 1930. Class 46.

269,348. FLOUR, ETC. THEODOR SCHLÜTER SEN., Dresden, Germany.
Filed July 16, 1929. Serial No. 287,205. PUBLISHED JANUARY 14, 1930. Class 46.

269,349. FRESH CITRUS FRUITS. BABSON PARK CITRUS GROWERS ASSOCIATION, Babson Park, Fla.
Filed September 21, 1929. Serial No. 290,052. PUBLISHED JANUARY 21, 1930. Class 46.

269,350. CANNED VEGETABLES. BURNHAM & MORRILL COMPANY, Portland, Me.
Filed August 30, 1929. Serial No. 289,179. PUBLISHED JANUARY 21, 1930. Class 46.

269,351. FRESH GRAPEFRUIT. YUMA MESA GRAPEFRUIT COMPANY, Yuma, Ariz.
Filed August 24, 1929. Serial No. 288,948. PUBLISHED JANUARY 21, 1930. Class 46.

269,352. AUTOMATIC BOWLING GAME APPARATUS. RICHARD LINN LLOYD, Providence, R. I.
Filed August 8, 1929. Serial No. 288,305. PUBLISHED JANUARY 14, 1930. Class 22.

269,353. CERTAIN LISTED SURGICAL AND MEDICAL INSTRUMENTS AND SUPPLIES. ACTIEN-GESELLSCHAFT FÜR FEINMECHANIK, VORMALS JETTER & SCHEERER, Tuttlingen, Germany.
Filed July 24, 1929. Serial No. 287,603. PUBLISHED JANUARY 14, 1930. Class 44.

269,354. CHEWING GUM. UNITED GUM CORPORATION, Chicago, Ill.
Filed July 8, 1929. Serial No. 286,804. PUBLISHED JANUARY 21, 1930. Class 46.

269,355. REFRIGERATORS AND REFRIGERATION APPARATUS FOR CHILLING MILK. PERFECTION STOVE COMPANY, Cleveland, Ohio.
Filed November 25, 1929. Serial No. 292,893. PUBLISHED JANUARY 14, 1930. Class 31.

269,356. WOMEN'S COATS. ABRAHAM & STRAUS, INC., New York, N. Y.
Filed November 25, 1929. Serial No. 292,859. PUBLISHED JANUARY 14, 1930. Class 39.

269,357. OUTER WEARING APPAREL FOR WOMEN AND GIRLS—NAMELY, HOUSE AND STREET DRESSES. B. LOWENBAUM MFG. CO., St. Louis, Mo.
Filed November 25, 1929. Serial No. 292,882. PUBLISHED JANUARY 14, 1930. Class 39.

269,358. LADIES', MISSES' AND CHILDREN'S HOSIERY, ETC. MILLERS, INC., New York, N. Y.
Filed November 23, 1929. Serial No. 292,817. PUBLISHED JANUARY 14, 1930. Class 39.

269,359. HOSIERY. PARKS HOSIERY MILLS, INC., Asheboro, N. C.
Filed November 19, 1929. Serial No. 292,594. PUBLISHED JANUARY 14, 1930. Class 39.

269,360. WOMEN'S HOSIERY. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed November 19, 1929. Serial No. 292,580. PUBLISHED JANUARY 14, 1930. Class 39.

269,361. MEN'S ATHLETIC DRAWERS OR RUNNING PANTS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed November 15, 1929. Serial No. 292,459. PUBLISHED JANUARY 14, 1930. Class 39.

269,362. HOSIERY. GOTHAM SILK HOSIERY COMPANY, INC., New York, N. Y.
Filed November 15, 1929. Serial No. 292,448. PUBLISHED JANUARY 14, 1930. Class 39.

269,363. FOOD PRODUCT CONSISTING OF A GELATINE DESSERT MIXTURE. THE FOOD PACKAGING CO., South Milwaukee, Wis.
Filed November 15, 1929. Serial No. 292,446. PUBLISHED JANUARY 14, 1930. Class 46.

269,364. MAYONNAISE. HENRY PAPE MAYONNAISE CO., INC., Brooklyn, N. Y.
Filed November 14, 1929. Serial No. 292,415. PUBLISHED JANUARY 14, 1930. Class 46.

269,365. MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS. LEBANON SHIRT COMPANY, Lebanon, Lititz, Lexington and Hebron, Pa., and New York, N. Y.
Filed November 14, 1929. Serial No. 292,406. PUBLISHED JANUARY 14, 1930. Class 39.

269,366. CHILDREN'S ONE-PIECE PLAY SUITS AND CHILDREN'S OVERALLS. POOL MANUFACTURING COMPANY, Sherman, Tex.
Filed November 12, 1929. Serial No. 292,335. PUBLISHED JANUARY 14, 1930. Class 39.

269,367. MEN'S AND BOYS' PAJAMAS. CHOCK-HOROWITZ COMPANY, New York, N. Y.
Filed November 11, 1929. Serial No. 292,251. PUBLISHED JANUARY 14, 1930. Class 39.

269,368. HOSIERY. GOTHAM SILK HOSIERY COMPANY, INC., New York, N. Y.
Filed November 15, 1929. Serial No. 292,449. PUBLISHED JANUARY 14, 1930. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

269,369. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL GARY CORPORATION, New York, N. Y. Filed Aug. 14, 1929. Serial No. 288,509.

MODERNA

For Hair Nets.
Claims use since Feb. 15, 1929.

269,370. (CLASS 28. CUTLERY, MACHINERY AND TOOLS AND PARTS THEREOF.) ROLLS RAZOR (1927) LIMITED, London, England, by change of name Rolls Razor Limited. Filed Sept. 17, 1929. Serial No. 289,908.

ROLLS RAZOR

For a Combination Hand Apparatus for Honing and Stropping Razors, and Parts Thereof.
Claims use since Dec. 1, 1922.

269,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARCEL GUERLAIN, INC., New York, N. Y. Filed Nov. 1, 1929. Serial No. 291,873.

ROLLS ROYCE

For Perfume.
Claims use since Feb. 15, 1929.

269,372. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ELLIS ADDING-TYPEWRITER COMPANY, Newark, N. J. Filed Nov. 26, 1929. Serial No. 292,929.

ELLIS

For Accounting Machines, Adding Typewriters, Calculating and Computing Machines, and Registering Devices Embodying Parts for Machines for Computing, Calculating, Accounting, and Recording.
Claims use since since about Jan. 1, 1910.

269,373. (CLASS 12. CONSTRUCTION MATERIALS.) DOUGLAS FIR PLYWOOD INSTITUTE, Tacoma, Wash. Filed Dec. 31, 1928. Serial No. 277,411.

FIRPLY

For Douglas-Fir Plywood.
Claims use since January, 1928.

269,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CRESTA BLANCA COMPANY, doing business as Valencia Company, San Francisco, Calif. Filed Feb. 25, 1929. Serial No. 279,899.

VALENCIA

For a General Medicinal Tonic Having a Wine Base.
Claims use since Feb. 12, 1929.

269,375. (CLASS 12. CONSTRUCTION MATERIALS.) FREDERICK M. VENEIS, Philadelphia, Pa. Filed Mar. 6, 1929. Serial No. 280,365.



For Ceiling, Wall, and Partition Structure Consisting of a Composite Structure Composed of Plaster Boards, Blocks, Slabs, and Clips.
Claims use since Jan. 30, 1929.

269,376. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WESCOTT RULE COMPANY, INCORPORATED, Seneca Falls, N. Y. Filed Mar. 19, 1929. Serial No. 281,026.

Drawline

For Desk Rulers.
Claims use since Feb. 15, 1929.

269,377. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) EATON LABORATORIES, INC., Kansas City, Mo. Filed May 27, 1929. Serial No. 284,655.

REDYPLATE

For Dental Plates.
Claims use since Sept. 4, 1928.

269,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BULLOCK BROTHERS ATHLETIC SUPPLY COMPANY, INC., Champaign, Ill. Filed Dec. 9, 1929. Serial No. 293,405.

Matt Bullock's

For an Athletic Rubbing Oil for General Massage Purposes, a Solidified Athletic Liniment in Paste Form for External Application in Treating Congested Muscular Ailments and the Like, a Gymnasium Itch Ointment for Counteracting Irritating Skin Conditions Developed by Gymnasium Athletes, a Rubber Solvent Used in Removing Adhesive Plaster and Analogous Adhering Material from the Skin, a Hold-Ball Compound, an Antiseptic Throat Gargle and Mouth Wash, a Semisolid Antiseptic Dressing, a Liquid Liniment for General External Application, and a Foot Lotion for Treating Foot Ailments Such as Ringworms and the Like.
Claims use since 1920.

269,379. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ABRAHAM ISRAEL, Newburgh, N. Y. Filed Dec. 11, 1929. Serial No. 293,534.

Premium

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since April, 1916.

269,380. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GROCERS & PRODUCERS CO., Cleveland, Ohio. Filed Dec. 21, 1929. Serial No. 293,908.

Glendale

For Canned Fruits, Vegetables, and Fish.
Claims use since February, 1900.

269,381. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930. Serial No. 295,166.

HOLLYWOOD

For Hose, Belting, and Packing, All Made of Rubber and Fabric.
Claims use since December, 1916.

269,382. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. A. STEVENS & BROS., Chicago, Ill. Filed Sept. 22, 1928. Serial No. 272,834.

The Make-up Box

For Face Powder.
Claims use since June 13, 1928.

269,383. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PEERLESS PLUSH MANUFACTURING COMPANY, Paterson, N. J. Filed Nov. 15, 1928. Serial No. 275,388.

NORTHBROOK BLANKET

For Textile Blankets.
Claims use since about Oct. 8, 1928.

269,384. (CLASS 12. CONSTRUCTION MATERIALS.) ST. PAUL AND TACOMA LUMBER CO., Tacoma, Wash. Filed June 10, 1929. Serial No. 285,380.

COTTAGE SPECIAL

For Wood Shingles.
Claims use since Jan. 16, 1929.

269,385. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE COMPANY, Portland, Oreg. Filed Aug. 2, 1929. Serial No. 288,036.

NEWSTWINE

For Twines, Ropes, and Cords.
Claims use since Jan. 4, 1929.

269,386. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RED & WHITE CORP'N., Buffalo, N. Y. Filed June 27, 1929. Serial No. 286,275.

BLUE AND WHITE

For Washing Powder, Wall-Paper Cleaner, Scouring Cleanser, Soaps, Soap Powder, and Soap Flakes.
Claims use since Aug. 27, 1928.

TRADE-MARK REGISTRATIONS RENEWED

34,191. A PRODUCT FOR PRESERVING AND IMPROVING WINES AND OTHER BEVERAGES. Registered February 13, 1900. ALFRED CHEVALLIER APPERT. Renewed February 13, 1930, to Raymond Chevallier-Appert, Paris, France, successor.

34,328. CERTAIN NAMED CORD AND TWINES. Registered March 20, 1900. ALEXANDER F. REID, Brooklyn, N. Y. Renewed March 20, 1930, to Alex. F. Reid & Sons, Inc., New York, N. Y., a Corporation of New York, successor.

34,329. CERTAIN NAMED CORDS AND THREAD. Registered March 20, 1900. ALEXANDER F. REID, Brooklyn, N. Y. Renewed March 20, 1930, to Alex. F. Reid & Sons, Inc., New York, N. Y., a Corporation of New York, successor.

72,813. CHOCOLATE. Registered February 23, 1909. H. O. WILBUR & SONS. Renewed February 23, 1929, to Wilbur-Suchard Chocolate Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

75,897. PRESSED GLASSWARE. Registered November 23, 1909. A. H. HEISEY & CO., INC. Renewed November 23, 1929, to A. H. Heisey & Co., Newark, Ohio, a Common-Law Trust of Ohio, successor.

76,571. BOOT PROTECTORS OF METAL. Registered February 1, 1910. JOHN GILES & SONS, LIMITED, Bristol, England. Renewed February 1, 1930, to John Giles & Sons, Limited, Leeds, England, a Joint Stock Company of Great Britain.

76,786. CERTAIN JEWELRY. Registered February 15, 1910. THE D. L. AULD COMPANY, Columbus, Ohio, a Corporation of Ohio. Renewed February 15, 1930.

77,148. A MAGAZINE. Registered March 15, 1910. LEIGH MITCHELL HODGES, Philadelphia, Pa. Renewed March 15, 1930, to Campbell Soup Company, Camden, N. J., a Corporation of New Jersey, assignee by mesne assignments.

77,414. COTTONSEED OIL. Registered April 5, 1910. ASPEGREN & Co., New York, N. Y. Renewed April 5, 1930, to Portsmouth Cotton Oil Refining Corporation, Portsmouth, Va., and New York, N. Y., a Corporation of Virginia, assignee by mesne assignments.

77,821. HAM, BACON, DRIED BEEF, AND LARD. Registered May 10, 1910. WILLIAM MOLAND'S SONS. Renewed May 10, 1930, to Wm. Moland's Sons, Inc., Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

78,286. A BLEND OF STRAIGHT SCOTCH WHISKIES. Registered May 31, 1910. JOHN WALKER & SONS, LIMITED, Kilmarnock, Scotland, and London, England. Renewed May 31, 1930, to John Walker & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

78,667. COFFEE, SPICES, AND FLAVORING EXTRACTS. Registered June 28, 1910. THE R. T. FRENCH COMPANY. Renewed June 28, 1930, to The R. T. French Company, Rochester, N. Y., a Corporation of Delaware, assignee.

78,738. SALVE FOR ECZEMA. Registered July 5, 1910. MAURICE F. SCHLESINGER. Renewed July 5, 1930, to Bendiner & Schlesinger, Inc., New York, N. Y., a Corporation of New York, assignee.

79,010. CANDIED POPCORN. Registered July 26, 1910. RUNCKHEIM BROS. & ECKSTEIN. Renewed July 26, 1930, to The Cracker Jack Co., Chicago, Ill., a Corporation of Illinois, assignee.

79,140. DRESSED POULTRY AND EGGS. Registered August 9, 1910. H. M. NOACK & SONS. Renewed August 9, 1930, to H. C. Noack, doing business as H. M. Noack & Sons, successor.

LABELS

REGISTERED APRIL 1, 1930

37,293.—*Title:* LIMA BEAN WAFERS. For Lima-Bean Wafers. WILLIAM C. BAKER, doing business as Bill Baker, Ojai, Calif. Published December 10, 1929.

37,294.—*Title:* BEECH-NUT PLAIN NOODLES. For Noodles. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published November 30, 1929.

37,295.—*Title:* T-ANG FOR CHILDREN. For Cough Remedy. CHANBRO PHARMACAL CO., Boston, Mass. Published July 1, 1929.

37,296.—*Title:* VIENNA BRAND. For Ginger Ale. THE DOUBLE EAGLE BOTTLING CO., Cleveland, Ohio. Published December 31, 1929.

37,297.—*Title:* EASTRIDGE'S BUTTERFLY PERFUME. For Perfume. JOHN R. EASTRIDGE, Washington, D. C. Published December 11, 1929.

37,298.—*Title:* EXPELLO HANDY BAGS FOR CHESTS, TRUNKS, PACKAGES, ETC. For Moth and Worm Killer. THE EXPELLO CORPORATION, Dover, N. H. Published December 27, 1929.

37,299.—*Title:* EXPELLO TWELVE HANDY BAGS. For Moth and Worm Killer. THE EXPELLO CORPORATION, Dover, N. H. Published December 27, 1929.

37,300.—*Title:* GABRIEL'S FAMOUS HEALING DUSTING POWDER. For Healing Dusting Powder. JULIUS GABRIEL, San Francisco, Calif. Published December 15, 1929.

37,301.—*Title:* CARLSON'S SWEETISH RYE BREAD. For Rye Bread. ALFRED W. GODFREY, Boston, Mass. Published December 5, 1929.

37,302.—*Title:* NARCISSUS BULBS. For Narcissus Bulbs. SAMUEL HORNER, Jr., Deland, Fla. Published January 14, 1930.

37,303.—*Title:* IDEAL BRAND HEARTS OF GOLD CANTALOUPES. For Cantaloupes. HUSTON, CULVER & CO., INCORPORATED, Seaford, Del. Published February 15, 1930.

37,304.—*Title:* DIGESTINE. For Medicine. JESSE JONES, Cooksville, Canada. Published February 7, 1930.

37,305.—*Title:* D & C—FOR MAKING LEMON PIE. For Ingredients for Making Lemon Pie. MY-T-FINE CORPORATION, Brooklyn, N. Y. Published January 10, 1930.

37,306.—*Title:* GERMAN MALT SYRUP. For Malt Syrup. NELS OLNES, doing business as Nu-on Products Company, San Francisco, Calif. Published February 1, 1929.

37,307.—*Title:* HOLTZMAN'S PRETZ-STICKS. For Pretzels. PRETZ-STICKS BAKING COMPANY, Myerstown, Pa. Published January 27, 1930.

37,308.—*Title:* RINO. For Orange Salt. RINO LABORATORIES CO., Los Angeles, Calif. Published February 15, 1930.

37,309.—*Title:* NO. 51 SERVICE ROLL. For Roll Toilet Paper. SCOTT PAPER COMPANY, Chester, Pa. Published July 25, 1929.

37,310.—*Title:* SUPER WONDER GLUE CO. For Glue. SUPER WONDER GLUE CO., Portland, Oreg. Published April 25, 1929.

37,311.—*Title:* THOROBREAD. For Dog Food. THE THOROBREAD COMPANY, Cincinnati, Ohio. Published January 6, 1930.

PRINTS

REGISTERED APRIL 1, 1930

12,465.—*Title:* KEYSTONE CHICKS. For Chicks. DANIEL W. GOODLING, doing business as Keystone Hatchery, Richfield, Pa. Published February 20, 1930.

12,466.—*Title:* OYSTERS IN BROCHETTE . . . WITH HEINZ TOMATO KETCHUP. For Tomato Ketchup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published February 8, 1930.

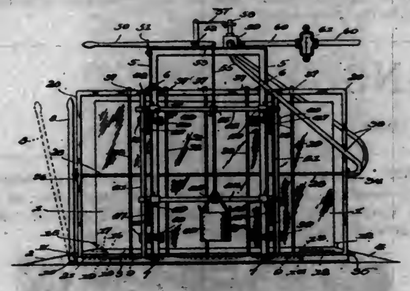
12,467.—*Title:* KORKERS. For Repair Device for Hosiery. THE KORKER COMPANY, Cincinnati, Ohio. Published September 7, 1929.

12,468.—*Title:* WALES TRIMPAK. For Cigarettes. WALES NOVELTIES CORPORATION, New York, N. Y. Published October 8, 1929.

REISSUES

APRIL 1, 1930

17,630. STEAM SCORING MACHINE FOR ICE. EARL S. HENRY, Medford, Okla. Filed Jan. 13, 1930. Serial No. 420,618. Original No. 1,737,808, dated Nov. 26, 1929, Serial No. 300,780, filed Aug. 20, 1928. 18 Claims. (Cl. 62—112.)

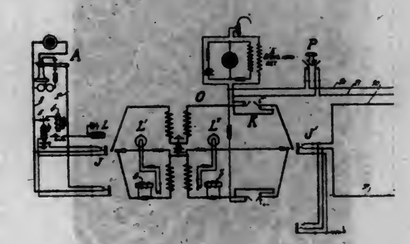


1. A machine for scoring blocks of ice, having a base and a supporting frame defining an ice block receiving passage thereabove, a hollow gridiron manifold member supported by said frame and adapted for steam heating and for scoring said blocks to a predetermined depth, powder storing means for controlling said gridiron member, and means to prevent the application of excessive force to said gridiron member during the operation of the device.

17,631. NONFERROUS WELDING ROD. ARTHUR R. LYTLE, Flushing, N. Y., assignor to Union Carbide & Carbon Research Laboratories, Inc., a Corporation of New York. Filed Feb. 19, 1930. Serial No. 429,812. Original No. 1,716,590, dated June 11, 1929, Serial No. 238,230, filed Dec. 6, 1927. 5 Claims. (Cl. 219—8.)

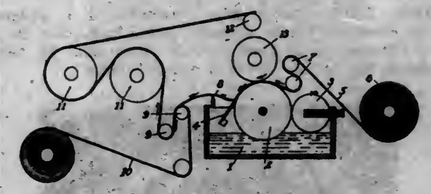
1. A welding rod consisting predominately of copper and zinc and containing silicon .1% to .25%, iron .75% to 1.5% and manganese .85% to 2%, the copper being about 58% to 60%.

17,632. MULTIOFFICE TELEPHONE SYSTEM. MARTIN L. NELSON, Park Ridge, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 11, 1930. Serial No. 420,262. Original application filed Feb. 9, 1921, Serial No. 443,688. Renewed Mar. 29, 1926. Original No. 1,614,678, dated Jan. 18, 1927. 78 Claims. (Cl. 179—27.)



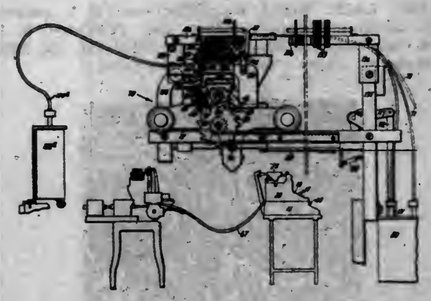
46. In a multi-digit storage device, a plurality of storage relay sets, a single set of actuating conductors, and means for actuating any relay in a storage set over the corresponding conductor and for thereupon transferring said conductors to the next storage relay set responsive to the actuation of said any relay.

17,633. PROCESS OF CRINKLING AND REENFORCING PAPER. WILLIAM WALLACE ROWE, Cincinnati, Ohio, assignor to The Paper Service Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 2, 1929. Serial No. 337,072. Original No. 1,628,515, dated May 10, 1927, Serial No. 726,709, filed July 18, 1924. 11 Claims. (Cl. 154—33.)



1. That process of creping dry paper, without the use of moisture or adhesive requiring drying, which consists in applying a heat plastic bituminous substance to the paper, bringing said substance to a position of adhesion to a creping roll, so as to bind the paper thereto, and removing the paper with a creping knife so as to crepe the same.

17,634. COMBINED TYPEWRITING AND CARD-PERFORATING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 28, 1929. Serial No. 335,728. Original No. 1,680,813, dated Aug. 14, 1928, Serial No. 103,220, filed Apr. 20, 1926. 92 Claims. (Cl. 164—113.)

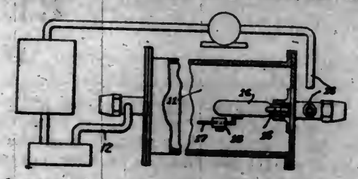


1. The combination with a typewriter having a letter-feeding carriage, a card-perforator having a hole-spacing carriage, a denominational tabulating mechanism on said typewriter controlled by a plurality of denominational keys, and electric coupling means whereby said typewriter and card-perforator may be jointly operated, and whereby the perforator-carriage is caused to move in unison with the typewriter-carriage during the type-key operations, of means whereby operation of said denominational keys to

position the typewriter-carriage may also cause said perforator-carriage to be co-relatively but dissentaneously positioned.

17,635. REFRIGERATING APPARATUS. EDWARD T. WILLIAMS, Pelham Manor, N. Y., assignor to Fedders Manufacturing Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 22, 1929. Serial No. 357,255. Original No. 1,645,314, dated Oct. 11, 1927, Serial No. 42,866, filed July 11, 1925. 34 Claims. (Cl. 62—126.)

32. In a mechanical refrigerating system, a stationarily mounted evaporator having an outlet, and an inlet means for admitting liquid refrigerant and oil, a fluid disposed within said evaporator comprising liquid refrigerant and oil of relatively different specific gravities, and automatic



control means for maintaining a substantially constant quantity of refrigerant and oil in a constant proportion within the evaporator.

DESIGNS

APRIL 1, 1930

80,820. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,232. Term of patent 7 years.



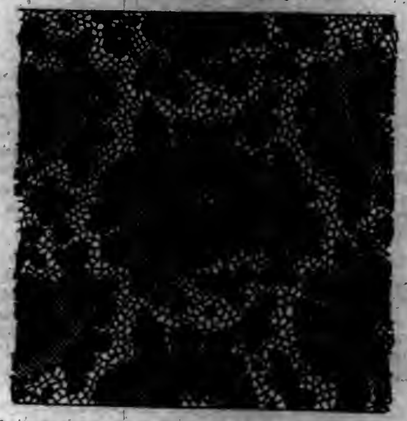
The ornamental design for lace, substantially as shown.

80,821. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,234. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

80,822. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,235. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

80,823. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,236. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

80,824. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,237. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

80,825. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,238. Term of patent 7 years.



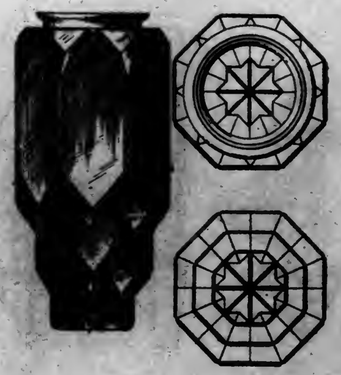
The ornamental design for lace, substantially as shown.

80,826. LACE. BEN A. BALL, Pawtucket, R. I., assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Jan. 22, 1930. Serial No. 34,239. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

80,827. ILLUMINATING GLOBE OR SIMILAR ARTICLE. HENRY L. BEYER, Philadelphia, Pa., assignor to Gillinder & Sons, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 11, 1930. Serial No. 34,104. Term of patent 3½ years.



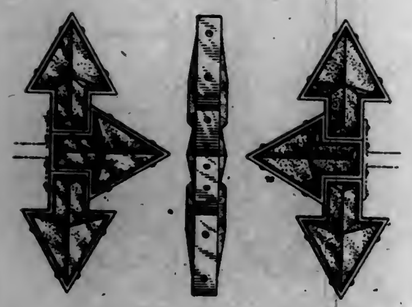
The ornamental design for an illuminating globe or similar article, as shown.

80,828. COMBINED SPIRITUAL MASS CARD TRAY AND STAND THEREFOR. JAMES S. BRENNAN, Attleboro, Mass. Filed July 25, 1929. Serial No. 32,203. Term of patent 3½ years.



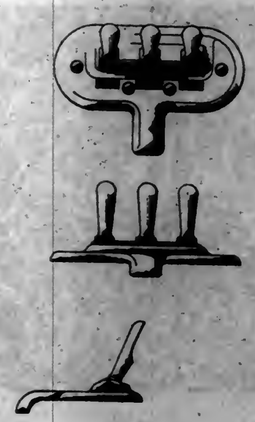
The ornamental design for a combined spiritual mass card tray and stand therefor, substantially as shown.

80,829. SIGNAL-LIGHT CASING. ANTHONY COVIELLO, Denver, Colo. Filed July 8, 1929. Serial No. 31,969. Term of patent 14 years.



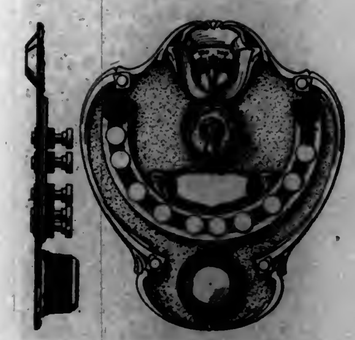
The ornamental design for a signal light casing, as shown.

80,830. TOP PLATE FOR WASHBASINS. AUGUST C. DOBRICK, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 2, 1929. Serial No. 32,277. Term of patent 14 years.



The ornamental design for a top plate for wash basins, as shown.

80,831. ESCUTCHEON FOR CONTROL DIALS. RICHARD C. ENDERWOOD, Newark, N. J., assignor to Brandes Laboratories, Incorporated, Newark, N. J., a Corporation of New Jersey. Filed Apr. 23, 1929. Serial No. 30,986. Term of patent 3½ years.



The ornamental design for an escutcheon for control dials, as shown.

80,832. RAILROAD-CROSSING SIGNAL. ELMER H. ENGLEHORN, Douglaston, N. Y. Filed July 9, 1929. Serial No. 31,976. Term of patent 14 years.



The ornamental design for a railroad crossing signal, as shown.

80,833. FINGER RING OR ARTICLE OF SIMILAR NATURE. EDWARD J. GROSS, New Rochelle, N. Y., assignor to Benjamin & Edward J. Gross Co., Inc., New York, N. Y. Filed June 11, 1929. Serial No. 31,630. Term of patent 14 years.



The ornamental design for a finger ring or article of similar nature, as shown.

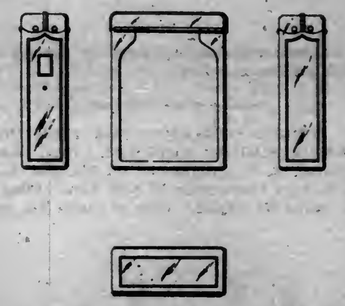
80,834. CORNER SIGN. MAXIMILLIAN C. HAERMAN, Cleveland, Ohio, assignor to Theo. A. Kochs Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 7, 1929. Serial No. 32,690. Term of patent 7 years.



The ornamental design for a corner sign, as shown.

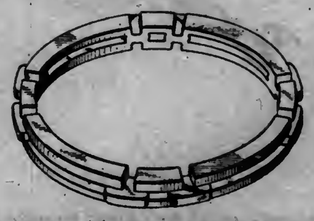
80,835. CIGARETTE-PACKAGE HOLDER. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Company, Newark, N. J., a Corporation of Delaware. Filed Nov. 8, 1929. Serial No. 33,371. Term of patent 14 years.





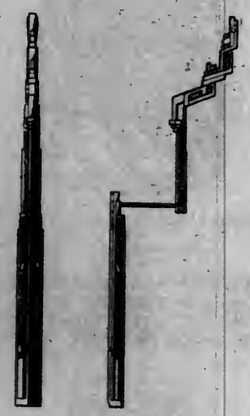
The ornamental design for a cigarette package holder, as shown.

80,836. RING. FREDERICK H. HILL, Los Angeles, Calif., assignor to The Monogram Shop, Los Angeles, Calif., a Partnership composed of Frederick H. Hill and Cyril Freedman. Filed Oct. 17, 1929. Serial No. 33,082. Term of patent 14 years.



The ornamental design for a ring, as shown.

80,837. STRAP FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 8, 1930. Serial No. 34,050. Term of patent 3½ years.



The ornamental design for a strap for lighting fixtures, or similar articles as shown.

80,838. CORNER ORNAMENT FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 8, 1930. Serial No. 34,052. Term of patent 3½ years.



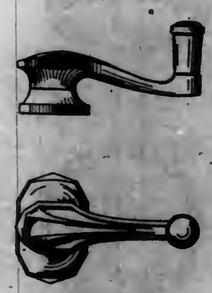
The ornamental design for a corner ornament for lighting fixtures or similar articles as shown.

80,839. PANEL FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. HARRY R. HOLDSMAN, Los Angeles, Calif., assignor to J. M. Feldman Co. Inc., Los Angeles, Calif. Filed June 5, 1929. Serial No. 31,546. Term of patent 7 years.



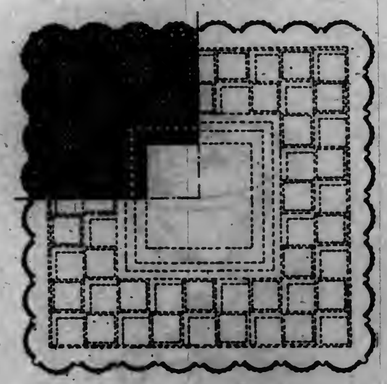
The ornamental design for a panel for lighting fixtures or similar articles, as shown and described.

80,840. WINDOW-REGULATOR HANDLE OR THE LIKE FOR AN AUTOMOTIVE VEHICLE. WILFRED H. HOLLINDALE, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 6, 1929. Serial No. 33,352. Term of patent 7 years.



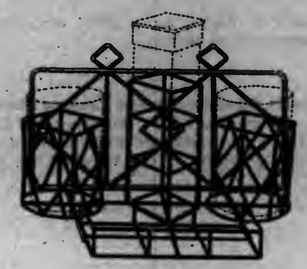
The ornamental design for a window regulator handle or the like, for an automotive vehicle substantially as shown.

80,841. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed Jan. 28, 1930. Serial No. 34,249. Term of patent 14 years.



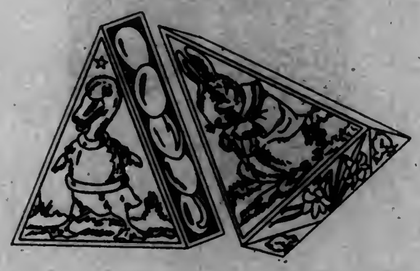
The ornamental design for a doily as shown and described.

80,842. COMBINATION TRAY. ADELE W. KEHLER, San Francisco, Calif. Filed Jan. 17, 1930. Serial No. 34,168. Term of patent 7 years.



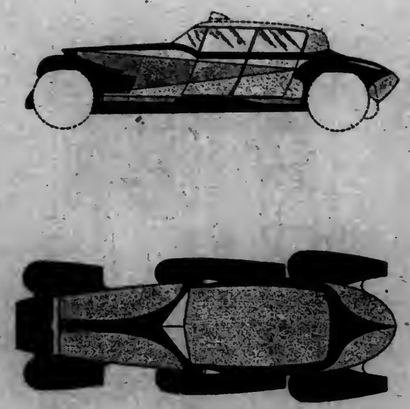
The ornamental design for a combination tray substantially as shown.

80,843. BOX. WILLIAM L. KRUMM, Chicago, Ill. Filed Jan. 10, 1930. Serial No. 34,094. Term of patent 7 years.



The ornamental design for a box substantially as shown.

80,844. COMBINED AUTOMOBILE BODY AND HOOD. RAYMOND G. F. LORWY, Jackson Heights, N. Y. Filed Sept. 13, 1928. Serial No. 28,127. Term of patent 7 years.



The ornamental design for a combined automobile body and hood as shown.

80,845. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 20, 1929. Serial No. 32,813. Term of patent 3½ years.



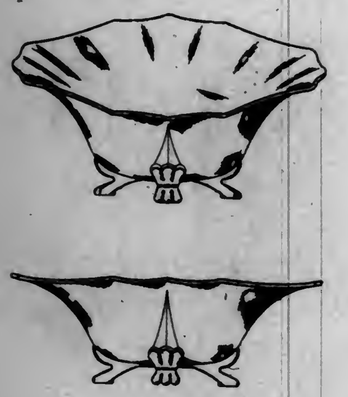
The ornamental design for a dress substantially as shown and described.

80,846. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 12, 1930. Serial No. 34,513. Term of patent 3½ years.



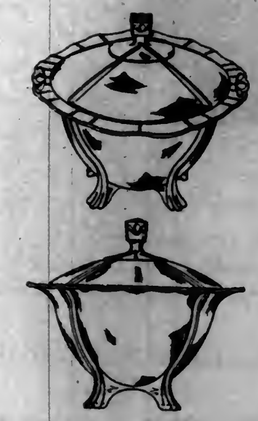
The ornamental design for a dress substantially as shown and described.

80,847. CANDY DISH OR SIMILAR ARTICLE. WILL CAMERON MCCARTNEY, Cambridge, Ohio. Filed Feb. 3, 1930. Serial No. 34,388. Term of patent 7 years.



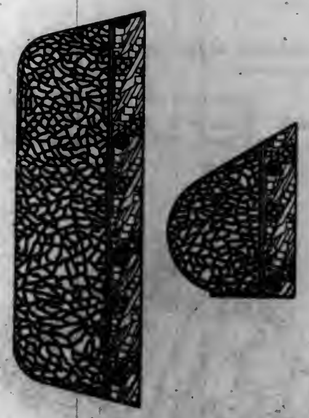
The ornamental design for a candy dish or similar article, substantially as shown.

80,848. GLASS BOWL OR SIMILAR ARTICLE. WILL CAMERON MCCARTNEY, Cambridge, Ohio. Filed Feb. 3, 1930. Serial No. 34,389. Term of patent 7 years.



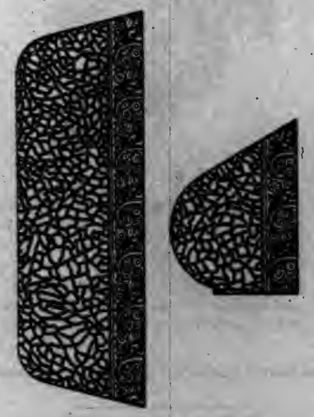
The ornamental design for a glass bowl or similar article, substantially as shown.

80,849. GLASS SHADE. GEORGE LORENZE MILLER, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a Corporation of Illinois. Filed Dec. 30, 1929. Serial No. 33,982. Term of patent 3½ years.



The ornamental design for a glass shade, as shown.

80,850. GLASS SHADE. GEORGE LORENZE MILLER, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a Corporation of Illinois. Filed Dec. 30, 1929. Serial No. 33,983. Term of patent 3½ years.



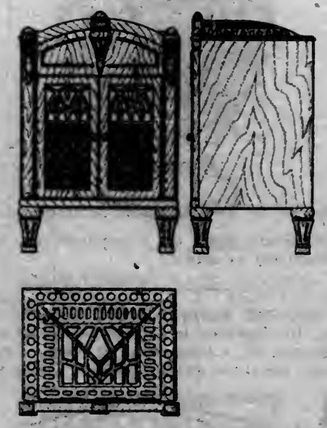
The ornamental design for a glass shade, as shown.

80,851. BUCKLE. WILLIAM L. MYERS, Newark, N. J., assignor to L. A. Myers, jr., Inc., Newark, N. J., a Corporation of New Jersey. Filed Jan. 16, 1930. Serial No. 34,156. Term of patent 7 years.



The ornamental design for a buckle substantially as shown.

80,852. HEATER. WALTER G. NAGLE, Belleville, and MAX LEHMAN, Quincy, Ill., assignors to Baker Nagle Company, Belleville, Ill., a Corporation of Delaware. Filed Jan. 8, 1930. Serial No. 34,057. Term of patent 3½ years.



The ornamental design for a heater, as shown.

80,853. BOTTLE. OLBERT C. NOBLE, Washington, Pa., assignor to Tygart Valley Glass Company, Washington, Pa., a Corporation of West Virginia. Filed Jan. 10, 1930. Serial No. 34,090. Term of patent 7 years.



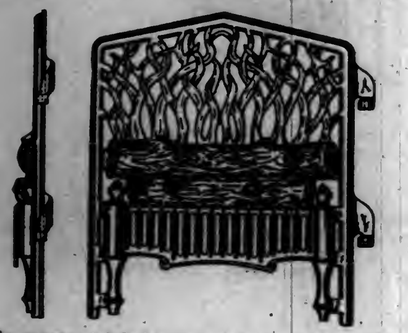
The ornamental design for a bottle as shown.

80,854. COMBINED LAMP BASE AND BODY. VIOLA RAFFAELLI, New York, N. Y., assignor to Raffaelli Trading Co., Inc., a Corporation of New York. Filed Jan. 24, 1930. Serial No. 34,277. Term of patent 7 years.



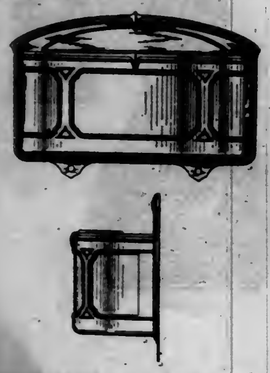
The ornamental design for a combined lamp base and body substantially as shown.

80,855. HEATER DOOR. JOSEPH HERMAN SANDELL, Chicago, Ill., assignor to Comstock-Castle Stove Company, Quincy, Ill., a Corporation of Illinois. Filed Jan. 29, 1930. Serial No. 34,335. Term of patent 14 years.



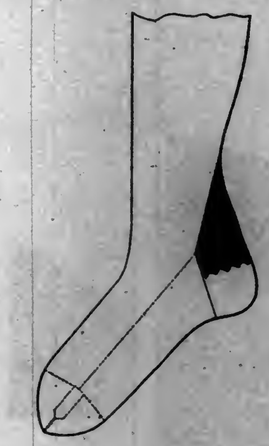
The ornamental design for a heater door, as shown.

80,856. COMBINATION SMOKING AND VANITY CASE. WILLIAM SCHNELL, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 7, 1929. Serial. No. 32,970. Term of patent 7 years.



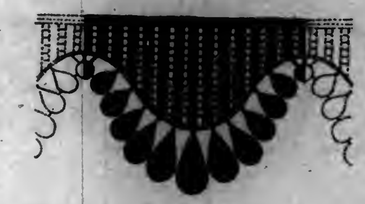
The ornamental design for a combination smoking and vanity case substantially as shown.

80,857. STOCKING. JOEL ISSER SCHWADRON, Vienna, Austria. Filed Feb. 7, 1930. Serial No. 34,449. Term of patent 3½ years.



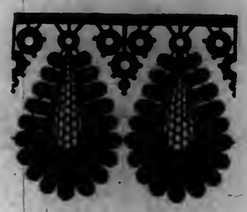
The ornamental design for a stocking, as shown.

80,858. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,255. Term of patent 3½ years.



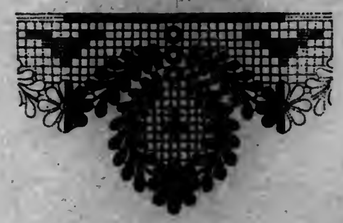
The ornamental design for embroidered lace edging, as shown and described.

80,859. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,256. Term of patent 3½ years.



The ornamental design for embroidered lace edging, as shown.

80,860. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,257. Term of patent 3½ years.

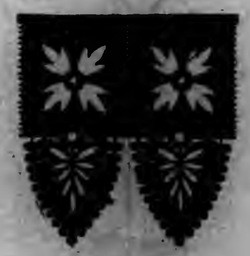


The ornamental design for embroidered lace edging, as shown and described.

80,861. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,258. Term of patent 3½ years.

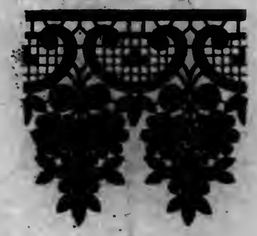
The ornamental design for embroidered lace edging, as shown and described.

80,862. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,259. Term of patent 3½ years.



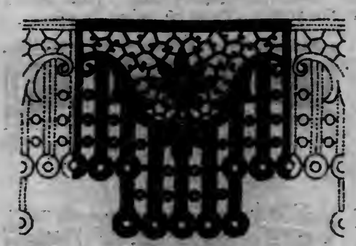
The ornamental design for embroidered lace edging as shown.

80,863. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,260. Term of patent 3½ years.



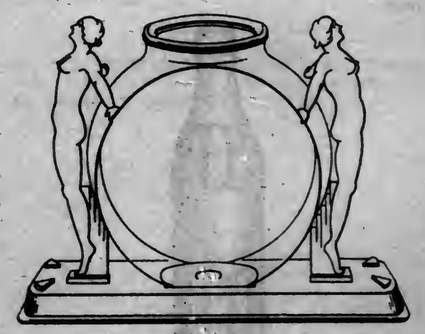
The ornamental design for embroidered lace edging, as shown.

80,864. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Jan. 23, 1930. Serial No. 34,261. Term of patent 3½ years.



The ornamental design for embroidered lace edging, as shown and described.

80,865. AQUARIUM STAND OR SIMILAR ARTICLE. SANDERS C. SIMPSON, Woodcliff, N. J. Filed Jan. 14, 1930. Serial No. 34,127. Term of patent 3½ years.



The ornamental design for an aquarium stand or similar article as shown.

80,866. DOOR VIEWER. HERMAN SPECTOR, Brooklyn, N. Y. Filed June 25, 1928. Serial No. 27,278. Term of patent 3½ years.



The ornamental design for a doorviewer as shown.

80,867. CATAFALQUE. JACOB A. WEBER and LOUIS A. WEBER, Cleveland Heights, Ohio. Filed Dec. 5, 1929. Serial No. 33,669. Term of patent 14 years.



The ornamental design for a catafalque, as shown.

80,868. BOTTLE OR SIMILAR ARTICLE. GEORGE F. GALLAGHER, Chicago, Ill., assignor to Krem-Ko Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 19, 1929. Serial No. 32,448. Term of patent 14 years.



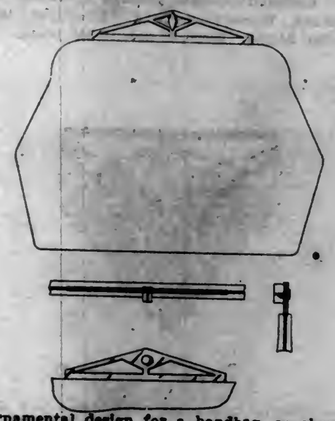
The ornamental design for a bottle or similar article, substantially as shown.

80,869. EMBLEM OR SIMILAR ARTICLE. LAWRENCE M. GOODMAN, Detroit, Mich. Filed May 6, 1929. Serial No. 31,124. Term of patent 14 years.



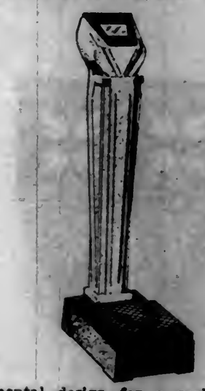
The ornamental design for an emblem or similar article, as shown.

80,870. HAND BAG. FRANK J. QUIGAN, Jackson Heights, N. Y. Filed Oct. 28, 1929. Serial No. 33,146. Term of patent 14 years.



The ornamental design for a handbag, as shown.

80,871. SCALE. NOBLE L. FELLOWS, Detroit, Mich., assignor to Barnes Scale Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 6, 1930. Serial No. 34,440. Term of patent 14 years.

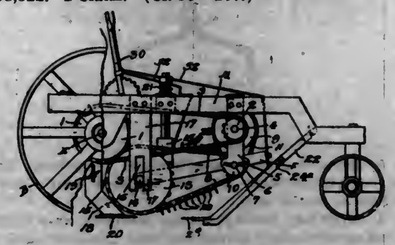


The ornamental design for a scale substantially as shown.

PATENTS

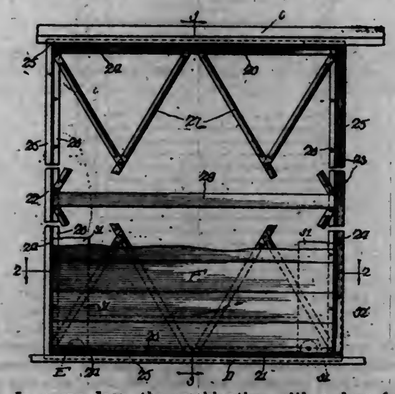
GRANTED APRIL 1, 1930

1,752,285. BEET TOPPER. CARL A. J. ANDERSEN, Salt Lake City, Utah. Filed May 12, 1926. Serial No. 108,522. 1 Claim. (Cl. 55—107.)



A beet topper comprising a wheel-supported frame, an axle on which the rear portion of said frame is supported, a sprocket wheel secured on said axle, vertical standards secured to the front portion of said frame, a shaft journalled in said vertical standards, a sprocket wheel carried on said shaft, a sprocket chain carried on said sprocket wheel, a belt tightener frame supported on said standards, a shaft journalled in said tightener frame, and movable in arc-shaped slots cut in said vertical standards, means to impart motion from the first-mentioned shaft to the last-mentioned shaft, slotted standards secured to said frame, a shaft journalled near the rear portion of the said frame and adapted to move vertically in said slots, a topper beam through which the last-mentioned shaft is passed, and which shaft and beam move vertically up and down, springs to control the movement of said beam, a topping blade secured on the lower end of said beam, spaced apart sprocket wheels carried on said last-mentioned shaft, a pair of spaced apart sprocket wheels carried on the shaft which is in said tightener frame, spaced apart foliage chains over said last-mentioned pairs of sprocket wheels and passing over said first-mentioned spaced apart sprocket wheels to impart rotation thereto, said chains having blades secured thereto having teeth on the outer side thereof, and means to raise and lower said beam.

1,752,286. CAR DOOR. ALLAN S. BARROWS, Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 27, 1924. Serial No. 722,759. 13 Claims. (Cl. 20—37.)



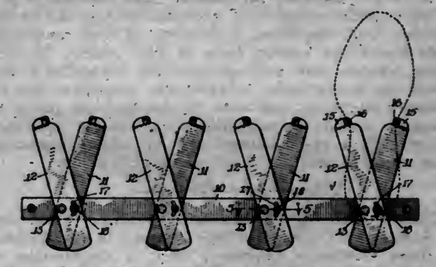
1. In a car door, the combination with a door frame; of bracing members mounted adjacent one face of said frame, said frame and bracing members providing a bed; and a closure adapted for disposition in said bed, said closure having recesses for the reception of said bracing members; and means for securing said closure to said frame.

1,752,287. RUG AND METHOD OF MAKING THE SAME. GERTRUDE BELCHER, Hollywood, Calif., assignor to Maud Bailey Johnson, Hollywood, Calif. Filed Apr. 2, 1928. Serial No. 266,710. 5 Claims. (Cl. 112—1.)



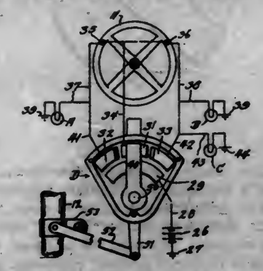
1. A fabric including a back, a plurality of strips of cloth secured adjacent each other to said back intermediate their width, said strips having their edges extending upwardly from said back and frayed.

1,752,288. SHOE RACK. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1929. Serial No. 368,904. 5 Claims. (Cl. 211—35.)



1. A shoe rack, comprising a horizontal bar, and a plurality of generally V-shaped shoe holders mounted thereon in spaced relation, said holders each comprising a pair of upwardly divergent arms pivoted coaxially to said bar and at their upper ends formed with blunt tip portions adapted to supportingly engage the instep portion of a shoe upper.

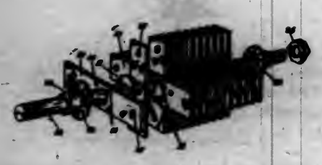
1,752,289. VEHICLE TRAFFIC SIGNAL. GEORGE R. CALL, Sioux City, Iowa. Filed Jan. 31, 1929. Serial No. 336,499. 5 Claims. (Cl. 177—389.)



2. A vehicle traffic signal including, in combination with the steering wheel of said vehicle and means for trans-

mitting the motion of said wheel to the travel wheels of the vehicle, a hand switch adapted to be operated in advance of the turning of the steering wheel and normally biased in open position, a signal device to indicate a turn, a circuit including said hand switch and the signal device, a source of current, a take-up switch operably connected with said means for transmitting, and adapted to establish a supplemental circuit from the source of current to the signal device after the steering wheel has been rotated a predetermined amount, said take-up switch including a pair of contacts, included in the hand switch circuit, one of said contacts being adapted to move as the switch moves to establish said supplemental circuit, to separate said contacts and break the hand switch circuit.

1,752,290. HAMMER-MILL FEED GRINDER.. CHARLES D. AMMON, Lincoln, Nebr. Filed June 1, 1929. Serial No. 367,695. 8 Claims. (Cl. 83—11.)



1. A reel assembly for hammer mills including a plurality of plates arranged in crisscross relation and having central shaft apertures, a plurality of rods connecting said plates and holding them in fixed relation to each other whereby said reel assembly will remain as a unit when the central shaft is withdrawn therefrom, and releasable means on said rods for holding said plates in clamped relation between the extremities of said rods whereby said reel assembly may be readily assembled and disassembled.

1,752,291. GLASS DISPENSING VESSEL. FERDINAND S. BARBIERS, Lancaster, Ohio, assignor to The Hocking Glass Company, Lancaster, Ohio, a Corporation of Ohio. Filed Apr. 11, 1927. Serial No. 182,977. 1 Claim. (Cl. 215—1.)



1. In a glass display vessel of substantially spherical shape having a hand opening therein around one end of an axis and a cylindrical equatorial zone around such axis, forming shoulders, a portion of such otherwise spherical vessel being flattened in a plane at an angle to the axis, such flattened portion extending substantially from the opposite end of the axis to the shoulder of the cylindrical zone.

1,752,292. PAPER BAG. ADELMER M. BATES and JOHN EVANS CORNELL, Chicago, Ill., assignors, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of New Jersey. Filed Jan. 13, 1926, Serial No. 81,091, and in Great Britain Dec. 13, 1924. 14 Claims. (Cl. 229—53.)



1. A paper bag for heavy service, comprising nested tubes, the tubes being attached to each other only by sewed seams at the ends.

7. A paper bag having an end collapsed and reinforcing means extending across the two faces of said end, portions of said means being adhered and sewed to said two faces, the adhesive and sewing being along separate lines.

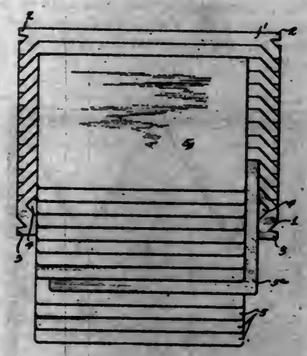
12. A bag comprising a multi-walled bellows-folded paper tube having its end closed by securing together the ends of its flat sides and a valve at the apex of a fold at its end next to said closure.

1,752,293. FUNGICIDE. KARL BRODERSEN and WERNER EXT, Dessau in Anhalt, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 27, 1926, Serial No. 138,120, and in Germany Oct. 24, 1925. 7 Claims. (Cl. 167—22.)

3. A dry fungicide containing an addition product of a quinone to a phenol.

7. A dry fungicide containing 4-chlorphenoquinone.

1,752,294. CARD INDEX. GEORGE H. DAWSON, Cambridge, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed July 10, 1925. Serial No. 42,728. 6 Claims. (Cl. 129—16.)



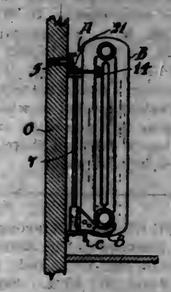
6. In a card index, a series of articulated supports, a card suspended from each support and retained thereon by engagement between said support and an adjacent support, said card being adapted for hinging movement relative to its support.

1,752,295. CHAIR CUSHION. BENJAMIN B. FELIX, Chicago, Ill., assignor to Featheredge Rubber Company, Inc., a Corporation of Illinois. Filed Dec. 14, 1926. Serial No. 154,684. 8 Claims. (Cl. 18—59.)



5. The method of producing perforated cushions which comprises the steps of forming openings in a piece of fabric, putting such openings about upwardly extending projections in the mold, said openings and said projections being so related that the fabric between adjacent projections must be deflected and stretched to reach the lowest parts of the mold, putting a sheet of sponge rubber compound in the mold so that it is over the fabric, closing the mold and vulcanizing, whereby the expansion of the compound forces the fabric against the mold between the projections and leaves edge portions of the fabric turned about the perforations formed by said projections and embedded in the rubber.

1,752,296. REVERSIBLE RADIATOR HANGER. FRANK W. FULLER, St. Paul, Minn. Filed Dec. 8, 1926. Serial No. 152,844. 3 Claims. (Cl. 248—17.)



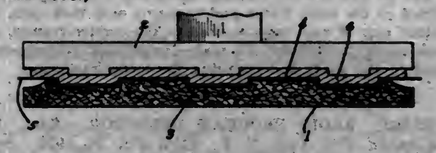
3. In combination with a wall radiator hanger having a depending support member carried by a wall bracket, a foot piece mounted on said depending member to carry a radiator, and a combined step and base spacing member positioned below said foot whereby to limit the downward movement of the latter and to hold the lower portion of the radiator spaced from a wall.

1,752,297. SUPPORT FOR PICTURES, CARDS, ETC. MAUDE M. GILLETTE, New York, N. Y. Filed Oct. 25, 1927. Serial No. 228,524. 5 Claims. (Cl. 40—156.)



1. A support or holder of the class described comprising a socket portion including card-edge engaging members extending at right angles to each other, card face engaging members extending perpendicularly to the edge members and parallel to each other, said card face engaging members overlapping one another and a pointed prong extending from the intersection of said edge engaging portions and at a right angle to the card-face engaging members.

1,752,298. PRINTING DIE. PHILIPP GRIFFIN, Minneapolis, Minn., assignor to Melone-Bovey Lumber Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Apr. 6, 1927. Serial No. 181,450. 13 Claims. (Cl. 101—395.)

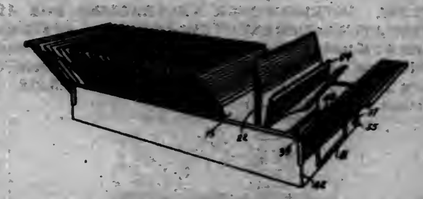


1. A die constructed from a material composed of exploded and matted together wood fibre.

1,752,299. ILLUMINATING OIL AND PROCESS OF MAKING SAME. FRANK W. HALL, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 9, 1926. Serial No. 80,356. 4 Claims. (Cl. 196—150.)

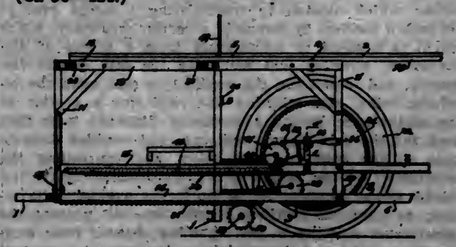
4. An illuminating oil of the type adapted for feeding through a wick, comprising a mixture of a kerosene fraction of petroleum and a highly purified substantially water white residual oil derived from a paraffin base crude petroleum, being adapted to modify the burning properties of the kerosene fraction, to furnish a uniform burning flame without formation of substantial incrustation of the wick during use.

1,752,300. VERTICAL RECORD FILE. LE ROI E. HUTCHINGS, Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1926. Serial No. 105,289. 25 Claims. (Cl. 129—16.)



8. In a filing device, a plurality of separator members of substantially similar shape, a frame member hingedly supported at the lower end thereof, and means for removably attaching said separator members to said frame member to form a series of pockets in stepped position for the reception of record matter in stepped, visible arrangement.

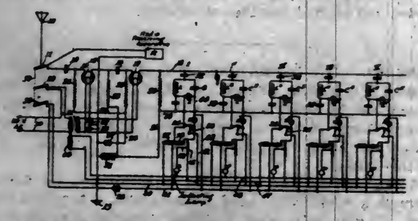
1,752,301. SHOCKER. WILLIAM L. M. JONES, Winnipeg, Manitoba, Canada. Filed Feb. 14, 1927, Serial No. 168,222, and in Canada Jan. 7, 1927. 4 Claims. (Cl. 56—424.)



1. In a grain shocking machine in combination, a main frame presenting opposing, upstanding side frames, simi-

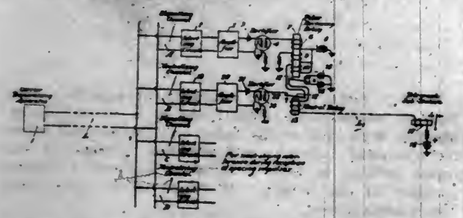
lar opposing upstanding carrier frames carried by the side frames and rearwardly moveable thereon, a shock forming receiver carried by and moveable with the carrier frames, a pair of adjacent rack bars permanently secured to one of the carrier frames, selectively driven pinions carried by the main frame and engaging said rack bars, a further pair of rack bars secured to the carrier frames, a cross shaft carried by the main frame and pinions secured to the shaft and engaging the latter rack bars.

1,752,302. RADIO PROGRAM DETECTOR. KARL G. KARSTEN, New York, N. Y. Filed Aug. 20, 1925. Serial No. 51,351. 9 Claims. (Cl. 250—20.)



1. In an indicating device for high frequency currents, an oscillatory circuit tuned to such frequency currents, a device in series in such oscillatory circuit whose resistance varies with the passage of current therethrough, a balancing device and a potentiometer having an intermediate tap, conductor means connecting said devices and potentiometer in a closed series with one another, a source of direct current connected to the intermediate tap of said potentiometer and to the conductor between said devices, an output solenoid connected in shunt of said potentiometer and indicating means controlled by said solenoid.

1,752,303. INTERFERENCE NEUTRALIZER FOR ALTERNATING-CURRENT TELEGRAPH SYSTEMS. LEO A. KELLEY, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Jan. 24, 1930. Serial No. 423,218. 5 Claims. (Cl. 178—44.)



1. The method of neutralizing interference in an alternating current telegraph receiving system, in which the normal movement of the armature of a receiving relay from one contact to another is controlled by rectified signaling currents representing marking and spacing impulses, which consists in transmitting a signal over or through a medium by means of a carrier frequency, which signal is exposed to interference from a source of disturbances, selecting and rectifying the said carrier frequency, and impressing the rectified current upon the receiving relay, also selecting and rectifying a portion of the disturbance having a frequency different from that used for the said signal, applying said rectified disturbance to the said receiving relay, and controlling the application of the said rectified disturbance by the received signal impulse to be protected against interference, so that the rectified disturbance will prevent the interference existing in the signaling channel from moving the armature of the receiving relay from that contact to which it has been moved by the signal impulse to be protected against interference.

1,752,304. FOLDING TABLE. JOHN KOVATS, Bridgeport, Conn. Filed June 6, 1929. Serial No. 368,814. 8 Claims. (Cl. 45—11.)



1. In a table, a plurality of supporting legs pivoted to the table on individual pivots arranged so that all the legs fold in the same direction with respect to the periphery of the table, guides at the corners of the table, a flexible cable running over these guides, a guide bar secured to the table adjacent each leg and provided with a guide way having an offset portion, movable blocks having guide means in said guide ways, there being a block for each leg, means for securing the blocks to the cable, a brace link pivoted to each leg, and a connecting link pivoted to each brace and to the adjacent block, the pivotal connection between the two links being guided in said guide way.

1,752,305. SOLUTION OF MEDICAMENT AND PROCESS OF PREPARING SAME. CARL LUDWIG LAUTENSCHLÄGER, Frankfort-on-the-Main, and MAX BOCKMÜHL and RUDOLF SCHWABE, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1926, Serial No. 99,962, and in Germany Apr. 21, 1925. 5 Claims. (Cl. 167—65.)

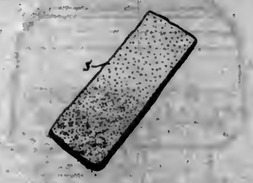
1. A chemotherapeutic agent comprising a water-soluble derivative of a polyvalent alcohol in which at least one of the hydroxyl-hydrogens is replaced by an organic radicle, said derivative having in solution therein an organic medicament difficulty soluble in water.

1,752,306. FOLDING CHAIR. CLIFFORD J. MARSON, Cambridge City, Ind., assignor to The Standard Manufacturing Company, Cambridge City, Ind., a Corporation of Indiana. Filed June 10, 1924. Serial No. 719,078. 3 Claims. (Cl. 155—142.)



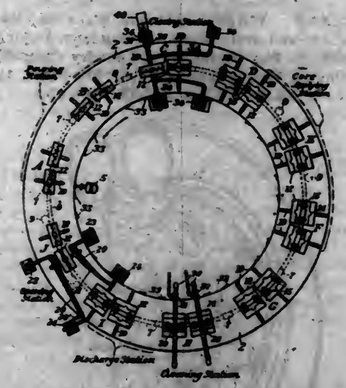
3. A folding chair, comprising front leg members, a back pivoted at its upper end to and between the upper end portions of the front leg members, rear legs pivoted at their upper ends to intermediate portions of the front leg members and being located at the inner sides of the same, a seat having its main body extending between and pivoted directly to the front leg members below the upper ends of the rear legs, said rear legs having longitudinal slots and the rear end of the main body of the seat being reduced in width and extending between the rear legs, said reduced portions having outstanding lugs slidable in the slots, the lower end of the back being reduced in width and extending between the upper ends of the rear legs above the seat, and sliding sleeve connections between the reduced lower end of the back and the upper end of the rear legs above the slots and the seat.

1,752,307. PLASTIC ARTICLE. RICHARD V. MATTISON, Ambler, Pa., assignor to Ambler Asbestos Company, a Corporation of Pennsylvania. Original application filed Mar. 6, 1926, Serial No. 92,730. Divided and this application filed Dec. 22, 1926. Serial No. 156,428. 8 Claims. (Cl. 108—8.)



7. As an article of manufacture a plate consisting of a homogeneous mass of colloided cement deposited and set to form the entire thickness of the plate, and fibres distributed throughout the set cement, said fibres being matted by deposit with the cement in the course of manufacture whereby they are disposed in general parallelism with the plane of the plate, strengthening it against transverse stresses.

1,752,308. APPARATUS FOR MOLDING. CLIFTON D. PETTIS, New York, N. Y. Filed Oct. 17, 1925. Serial No. 63,032. 17 Claims. (Cl. 22—77.)



1. In a molding apparatus, a movable carrier, a plurality of molds thereon movable to open and closed positions, fluid pressure cleaning means cooperating with said carrier for cleaning the molds while in open position, and a movable mounting for said cleaning means, substantially as described.

1,752,309. LUBRICANT PRODUCT AND PRODUCING PROCESS. RUDOLPH R. ROSENBAUM, Chicago, Ill. Filed Oct. 1, 1927. Serial No. 223,487. 3 Claims. (Cl. 87—9.)

3. A metal ricinoleate formed from a castor oil soluble in lubricating oil.

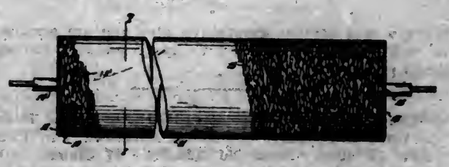
1,752,310. BRIEF CASE. LEO STEIN, Chicago, Ill. Filed July 5, 1927. Serial No. 203,582. 5 Claims. (Cl. 150—1.6.)

1. In a device of the class described, a brief case having a cover flap formed with spaced slots, a reinforcing element beneath said flap, spaced reinforcing elements in a line parallel to said first element and disposed upon the outer side of the flap, and means carried by the spaced



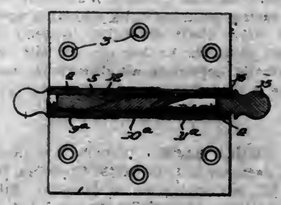
elements, extending through the slots and engaged with the first element to connect said spaced elements with the first element, said means restraining the spaced elements against pivotal movement relative the first element.

1,752,311. DANDY ROLL. WALTER KNOWLES TROTMAN, Holyoke, Mass. Filed Mar. 30, 1929. Serial No. 351,181. 2 Claims. (Cl. 92—48.)



1. As an article of manufacture, a dandy roll in the form of a hollow cylinder, there being a plurality of wavelike slots in said cylinder, said slots extending substantially in the same direction, so as to simulate, when viewed collectively, a threadlike fabric appearance.

1,752,312. HINGE DEVICE. MAGNUS TURNQUIST, Chicago, Ill. Filed Mar. 4, 1927. Serial No. 172,648. 3 Claims. (Cl. 16—140.)

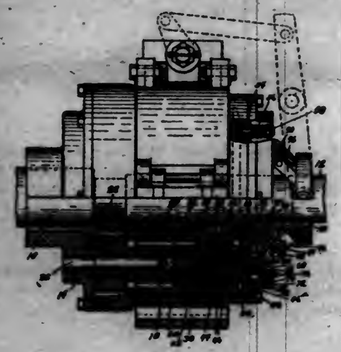


1. A hinge device comprising swinging leaves and a plurality of members which are provided with means for causing them to slide lengthwise of one another, and causing them to move laterally when they are so slid lengthwise, said members having inclined abutting surfaces by which the lengthwise sliding and laterally projecting movement is secured; said means for causing initial lengthwise movement comprising a screw threaded member engaging one end of the said pin.

1,752,313. CLUTCH MECHANISM. HENRY A. TUTTLE, Upton, Mass.; Jennie L. Tuttle executrix of said Henry A. Tuttle, deceased. Filed Apr. 4, 1927. Serial No. 180,705. 6 Claims. (Cl. 192—69.)

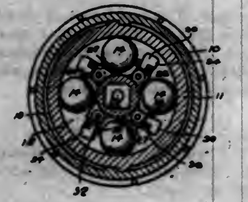
1. Clutch mechanism including the combination of a casing having an end wall, clutch plates disposed therein on one side of said end wall, thrust pins associated with said clutch plates and extended slidably through said end wall, a ring opposed to said thrust pins and carried by said casing on the other side of said end wall and having an

angularly-adjustable connection with said casing and having a continuous annular groove opposed to said thrust pins, and operating links having heads which are disposed



between said annular groove and pins and are arranged to rock in said groove and to apply pressure on said thrust pins.

1,752,314. PULVERIZING OR GRINDING MILL. DAVID J. UHLS and JOSEPH V. DURWIN, Allentown, Pa. Filed Nov. 22, 1928. Serial No. 321,206. 17 Claims. (Cl. 83—45.)



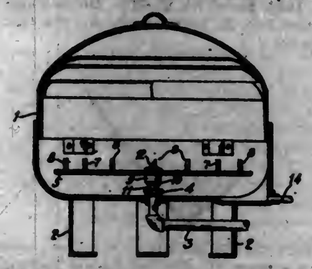
1. In a grinding mill, a casing, a grinding ring arranged within the casing, grinding balls operating upon the grinding ring, a drive shaft extending between the grinding balls, pusher elements having convex ball engaging surfaces spherically curved in all directions, and a support carrying the pusher elements and driven by the shaft.

1,753,315. SHELF RACK. WALTER N. VANCE, North Aurora, Ill., assignor to Lyon Metal Products, Incorporated, Aurora, Ill., a Corporation of Illinois. Filed Mar. 15, 1929. Serial No. 347,241. 3 Claims. (Cl. 211—135.)



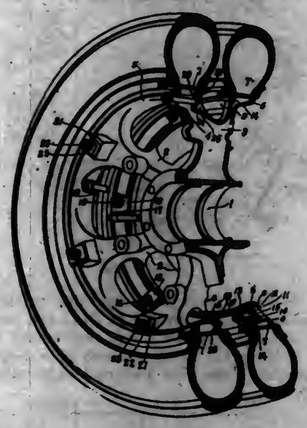
3. A divider support comprising a strip, spaced arched projections punched from said strip and in alinement with each other, a flat portion intermediate the ends of the arched projections for receiving a flange on a vertically arranged shelf divider, said strip being adapted for attachment to a face of a shelf member, whereby the flange of the divider will fit in the straight portion between the ends of the arched projections to hold the divider vertically in position between a pair of shelves and prevent lateral displacement of the divider.

1,752,316. NOZZLE FOR DISHWASHERS. HERMAN F. VOSHARDT, Chicago, Ill., assignor to Friedley-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed June 29, 1927. Serial No. 202,244. 2 Claims. (Cl. 299—69.)



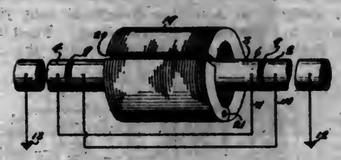
1. In a dishwasher, the combination, of a nozzle, a water supply pipe leading to the nozzle, said nozzle being rotatably mounted upon the inner end of said pipe, said nozzle comprising an annular member, a hub, a plurality of radially extending arms connecting said hub and said annular member, there being passages through said hub leading to the interior of the arms and the annular member, and a plurality of discharge nipples mounted upon said annular member and said arms said nipples being inclined from the vertical.

1,752,317. WHEEL. GEORGE WALTHER, FRANK H. WALKLEY, and JOHN HENRY BORGHARDT, Dayton, Ohio, assignors to The Dayton Steel Foundry Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 18, 1923. Serial No. 632,826. 1 Claim. (Cl. 301—13.)



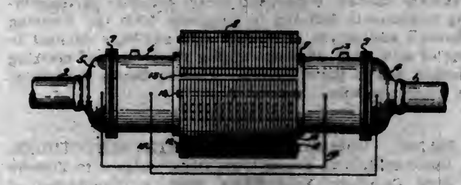
In a dual pneumatic wheel, a hub and main spokes, each main spoke having outer and inner spoke portions, outer and inner rims on said spoke portions, means for attaching demountable rims to the respective wheel rims staggered in relationship to one another, the retaining means on the inner rim being located between the spokes, and that portion of said outer rim between the spoke ends being so fashioned that the distance from the hub center to said retaining means on the inner rim is less than the distance from the hub center to the opposite inner circumference of the outer rim, whereby an operating tool may be used on said inner retaining means without interference from said outer rim.

1,752,318. APPARATUS FOR REDUCING SHEATH CURRENTS. FRANCIS J. WHITE, Brooklyn, N. Y., assignor to The Okonite Company, Passaic, N. J., a Corporation of New Jersey. Original application filed Apr. 8, 1927, Serial No. 181,916. Divided and this application filed Feb. 28, 1928. Serial No. 257,679. 7 Claims. (Cl. 173—81.)



1. An insulated cable in which the sheath thereof is divided into discontinuous lengths insulated from each other, and conductors directly connecting the said sheath lengths so that the electromotive force induced in one length is opposed to the electromotive force induced in another length of the same sheath of the same cable.

1,752,319. APPARATUS FOR REDUCING SHEATH CURRENTS. FRANCIS J. WHITE, Brooklyn, N. Y., assignor to The Okonite Company, Passaic, N. J., a Corporation of New Jersey. Original application filed Apr. 8, 1927, Serial No. 181,916. Divided and this application filed Feb. 28, 1928. Serial No. 257,680. 6 Claims. (Cl. 173—81.)



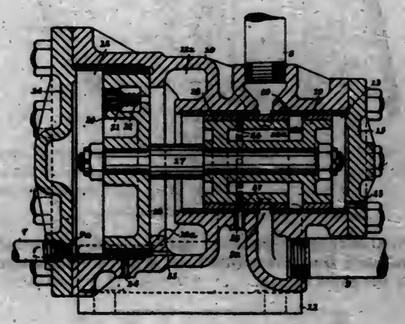
1. In combination a junction or joint box for connecting the conductors of two lengths of an electric cable, a section of said junction or joint box being insulated from adjacent sections of the junction or joint box and from the adjacent sheath of said lengths of electric cable, a core of laminated magnetizable material disposed about the insulated portion of said box and in inductive relation to the cable conductor therein, each end of said insulated section being connected by a conductor to the remote cable sheath.

1,752,320. APPARATUS FOR REDUCING SHEATH CURRENTS. FRANCIS J. WHITE, Brooklyn, N. Y., assignor to The Okonite Company, Passaic, N. J., a Corporation of New Jersey. Filed Apr. 8, 1927. Serial No. 181,916. 2 Claims. (Cl. 171—316.)



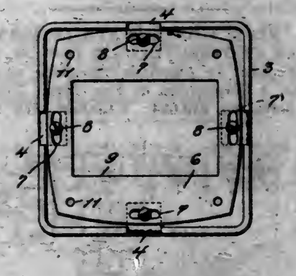
1. In combination, a conductor cable, a sheath or conducting covering therefor in discontinuous lengths, a core of magnetizable material applied about said cable and having an adjustable air gap and a winding for said core, the ends of said windings being connected to adjacent lengths of the sheath.

1,752,321. DRIFTING VALVE. DAVID T. WILLIAMS, Paterson, N. J. Filed Dec. 31, 1925. Serial No. 73,567. 3 Claims. (Cl. 121—137.)



1. A drifting valve device for locomotive engines including a cylinder having an eduction port in its cylindrical wall forming with said cylinder a part of a passage for conducting fluid to the working space of the engine while the locomotive is drifting and a valve movable lengthwise of and in the cylinder to close off said passage, said device having means for venting from the cylinder fluid entering the latter when the valve is closed including a groove surrounding the valve at one side of said eduction port and a passage extending from said groove to the end of the valve at the other side of said port.

1,752,322. OUTLET BOX. FREDERICK B. ADAM, St. Louis, Mo. Filed July 3, 1924. Serial No. 724,015. 6 Claims. (Cl. 247—19.)

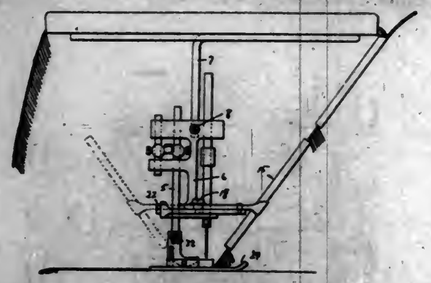


1. The combination of a receptacle, a finish plate, a contact device, carried by the finish plate, a substantially flat mounting enclosed by the receptacle and having an opening therethrough adapted to accommodate the contact device, and means including said mounting, and holding means associated therewith, for selectively locating the finish plate in variable angular relation to any wall of the receptacle.

1,752,323. GUIDE ATTACHMENT FOR PRESSER BARS. ROBERT BANKIER, Philadelphia, Pa. Filed June 29, 1928. Serial No. 289,275. 7 Claims. (Cl. 112—136.)

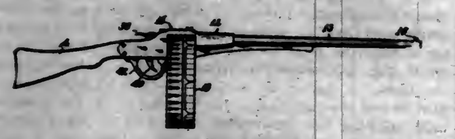
1. In combination with a needle head for sewing machines, a shank rising from the needle head, a guide plate supported on the shank and in a horizontal position, a guide trough leading downwardly from one end of the

guide plate and inclined inwardly toward the presser foot bar, a guide plate bent over upon itself to be substan-



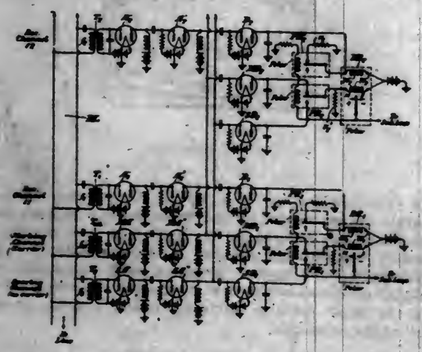
tially U-shaped in formation, and means for supporting the guide plate from the needle head so as to be in alinement with the guide trough.

1,752,324. AUTOMATIC RIFLE. ANDREW BOCHNAK, Bobtown, Pa. Filed May 6, 1929. Serial No. 360,674. 3 Claims. (Cl. 42—59.)



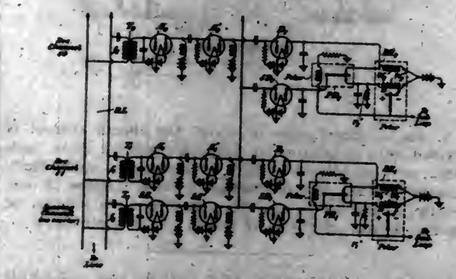
1. In a rifle of the class described, a central casing with a cartridge wheel passage, an arm depending from the casing, a cartridge wheel mounted on the arm and formed with gear teeth, and means including the gear teeth for advancing the cartridge wheel a cartridge distance upon operating of a trigger of the rifle, said cartridge wheel being provided with means for holding cartridges against accidental displacement, including pivoted levers engageable with the cartridges.

1,752,325. REDUCTION OF STATIC INTERFERENCE IN CARRIER SYSTEMS. DAVID E. BRANSON, River Edge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 15, 1928. Serial No. 319,654. 7 Claims. (Cl. 178—44.)



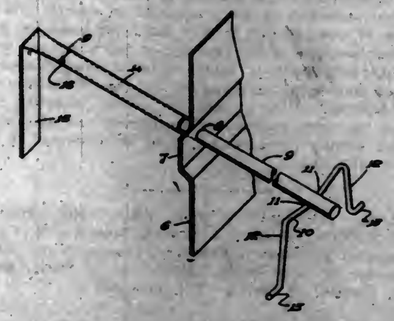
1. In a carrier system, a receiving channel comprising means to select an alternating carrier current, means to detect from said carrier current a telegraph signal, and a receiving relay responsive to said signal; auxiliary channel apparatus selective of components of interfering energy differing in frequency from the carrier waves to which the receiving channel is selective; and connections from said auxiliary channel apparatus to said receiving relay and controlled by said receiving relay to produce in said relay, in response to interference, electrical effects similar to but opposing those produced on said relay by the interference effect in said receiving channel.

1,752,326. REDUCTION OF STATIC INTERFERENCE IN CARRIER SYSTEMS. DAVID E. BRANSON, River Edge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 15, 1928. Serial No. 319,655. 6 Claims. (Cl. 178—44.)



1. In a carrier system, a receiving channel comprising means to select an alternating carrier current, means to detect therefrom signaling impulses, and a receiving relay having an operating winding responsive to said impulses to shift the armature in one direction, and a biasing winding to shift the armature in the opposite direction; an auxiliary channel comprising means selective of interfering components differing in frequency from the receiving channel, and means to connect said auxiliary channel to one of said relay windings during the receipt of marking signals, and to the other relay winding during the receipt of spacing signals.

1,752,327. DOWEL FOR CONCRETE STRUCTURES. BERNARD BRODY, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed Oct. 11, 1928. Serial No. 311,872. 7 Claims. (Cl. 94—8.)

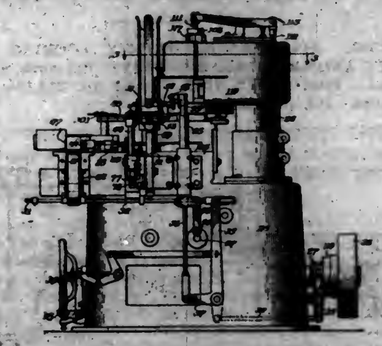


1. A dowel structure for concrete roads and the like, comprising telescoping sections, each adapted to be embedded in adjacent concrete slab members, and supporting members secured to said sections and constituting permanent anchors therefor in the concrete.

1,752,328. SQUARE-CAN CAP-SEAMING MECHANISM. WILLIAM CAMERON, Chicago, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 30, 1926. Serial No. 132,413. 20 Claims. (Cl. 113—14.)

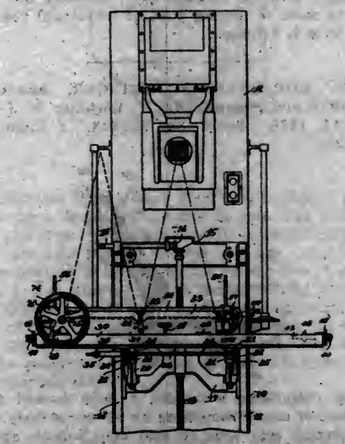
20. In a can seaming machine the combination of a turret adapted to receive a can body and a cap therefor,

seaming mechanism for attaching said cap to said body, a feeler finger, means for moving said finger transversely to the plane of a cap in said turret for detecting the



presence or absence of a cap therein, and means controlled by said finger for rendering the machine inoperative in the event of the absence of a cap from said turret.

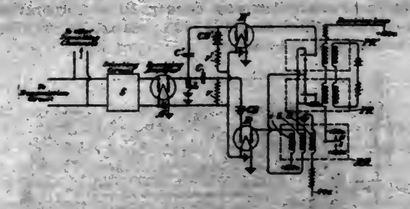
1,752,329. COPYHOLDER. ARTHUR W. CAPS, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Original application filed Jan. 20, 1927, Serial No. 162,257. Divided and this application filed Feb. 20, 1928. Serial No. 257,290. 15 Claims. (Cl. 88—24.)



1. In a photographic apparatus, the combination with a copyholder having a latch member projecting from an end thereof and adapted for reversible movement, of a buffer member adapted to contact with said copyholder to limit the movement of said copyholder and a collar mounted on said buffer member and adapted to cooperate with the latch member carried by said copyholder for locking said copyholder in contact with said buffer.

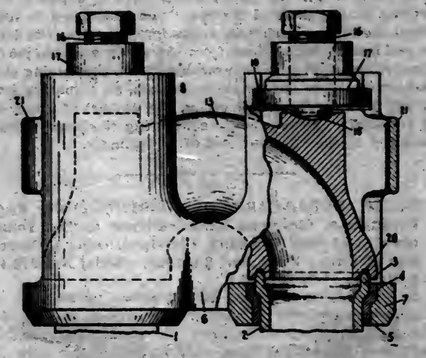
1,752,330. SUPPRESSION OF INTERFERENCE IN CARRIER TELEGRAPH SYSTEMS. ROBERT H. CLAFF, Ramsey, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 15, 1928. Serial No. 319,602. 6 Claims. (Cl. 178—44.)

1. In a carrier telegraph system, a receiving channel including a receiving relay, means responsive to an interfering wave in said channel to produce a current impulse, and means controlled by the receiving relay to apply said



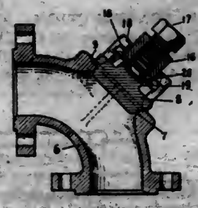
current impulse to said relay so as to tend to hold its armature against the contact upon which it rests at the time the interfering wave occurs.

1,752,331. RETURN BEND. FRED C. FANTZ, Webster Groves, Mo. Filed Apr. 5, 1929. Serial No. 352,780. 6 Claims. (Cl. 285—20.)



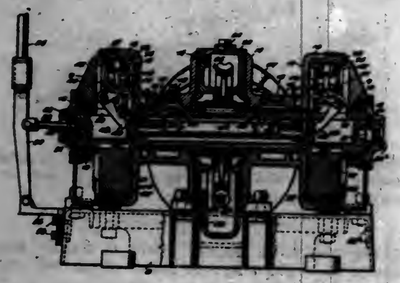
6. A connection for tubes for oil stills comprising a return bend, a housing therefor having annular portions formed thereon adapted to encircle the ends of a pair of tubes, upwardly extending side walls on said annular portions, means detachably secured to said side walls adjacent their tops and set screws mounted in said means, webs which connect said side walls and said annular portions, whereby the tendency of the said walls to spread when subject to pressure is overcome.

1,752,332. CLEAN-OUT ELBOW FOR CRACKING STILLS, ETC. FRED C. FANTZ, Webster Groves, Mo. Filed Apr. 12, 1929. Serial No. 354,461. 4 Claims. (Cl. 137—76.)



1. An elbow for cracking stills having an opening at the center of its outer bend, a plug to close said opening and adapted to provide a seal therefor, the sealing surface between the plug and wall of said opening being so shaped that the plug can be removed without any sliding movement between adjacent parts, upwardly extending arms at each side of said opening, there being arcuate recesses formed therein, means detachably mounted in engagement with said recesses and a set screw mounted in said means which engages said plug whereby the tightening of said set screw will cause said plug to seal said opening.

1,752,333. HAULAGE APPARATUS. OMAR E. CLARK, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed May 16, 1925. Serial No. 30,729. 3 Claims. (Cl. 254—185.)



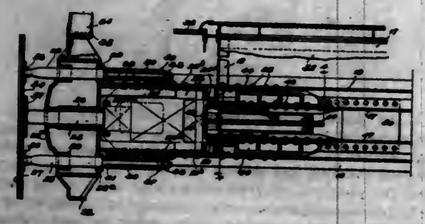
1. In a hoist, the combination with a support, of a driving shaft journaled thereon, drums journaled to rotate about the shaft, clutch mechanism for connecting the drums to and disconnecting them from the shaft, a clutch moving plunger longitudinally reciprocable within the driving shaft, and connected to the clutch mechanism, an actuating lever, means for mounting the lever on the support at either end of the shaft, and means for connecting the lever when so mounted to the adjacent end of the plunger.

1,752,334. HOUSE-CAR-DOOR CONSTRUCTION. FRANK DITCHFIELD, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 28, 1928. Serial No. 273,479. 8 Claims. (Cl. 20—26.)



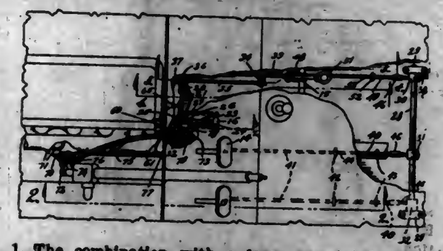
1. In a house car door construction, the combination with a fixed wall member; of a door member; and devices providing a double seal between said members, said devices including: A sealing strip carried by one of said members, and cooperable means carried by the other of said members, said means having two separate sections each adapted to independently contact said strip on the same surface along spaced lines.

1,752,335. CAR CONSTRUCTION. OTHO C. DURYEA, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 28, 1926. Serial No. 105,291. 16 Claims. (Cl. 213—8.)



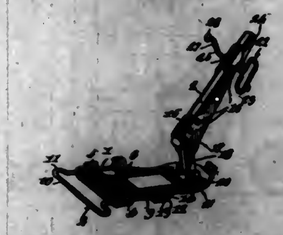
13. In a passenger coach, an underframe, draft and buffing mechanism carried by said underframe, a long travel center member mounted for movement relative to said underframe and normally having engagement with said mechanism, and draft and buffing mechanism secured to said center member, the travel of said last-named draft and buffing mechanism being less than the travel of said first-named draft and buffing mechanism.

1,752,336. ACCELERATOR SAFETY LOCKING DEVICE AND BRAKE ALARM. JOHN G. ELLINGER, Stout, Iowa. Filed July 1, 1929. Serial No. 375,144. 10 Claims. (Cl. 74—83.)



1. The combination with a lever associated with the operation of a motor vehicle and an accelerator member arranged for depression, of an accelerator locking mechanism, comprising a laterally projecting finger on said accelerator member, a locking lever having a part arranged to be moved beneath said finger, a spring tending to move said locking lever to locking position, a releasing member adapted for engagement with said locking lever to move it to inoperative position, a spring normally acting to hold said releasing member in engagement with said locking lever, and means connected with said vehicle operating lever for causing said releasing member to move out of engagement with the locking lever, whereby the locking lever may move to locking position when said vehicle operating lever is actuated.

1,752,337. MOP HEAD AND WRINGER. BENJAMIN L. FRIEDMAN and STEPHEN KOVAC, Roebling, N. J. Filed June 11, 1928. Serial No. 284,618. 1 Claim. (Cl. 15—120.)



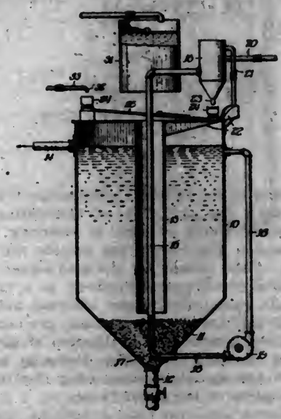
A mop comprising a handle, a head formed from a blank sheet of metal comprising an elongated body, means for connecting said body to said mop handle, upwardly extending apertured ears bent from the side edges of said body, lateral extensions rolled for a portion of their length and having their upper portions bent upwardly and outwardly along curved lines for producing sockets at the forward corners of the body, said body provided with arcuate recesses along the side edges thereof of material depth intermediate said ears and said lateral extensions, and a mop holding means formed from a single strand of wire having a pair of substantially parallel arms spanning said arcuate recesses and terminating in oppositely and outwardly extending ends adapted to extend through said apertured ears from the inside toward the outside thereof, said arms being adapted to swing under the inner faces of said lateral extensions for locking said mop holding means in engagement with said body, said recesses permitting the withdrawal of the outwardly extending ends from said apertured ears through the inward movement of said arms when gripped by the fingers of an operator.

1,752,338. THERAPEUTICAL INSTRUMENT. MOMOTARO FUJII, Tokyo, Japan. Filed May 31, 1924, Serial No. 716,857, and in Japan June 15, 1923. 2 Claims. (Cl. 128—44.)



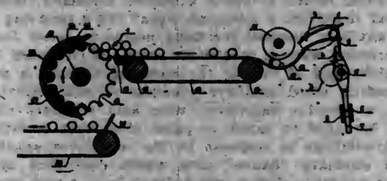
1. A therapeutical instrument comprising a barrel, a yieldingly mounted bristle carrier carried thereby, and a plurality of relatively long flexible bristles mounted in said carrier.

1,752,339. PROCESS AND APPARATUS FOR SOFTENING WATER. WALTER H. GREEN, Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed July 19, 1924. Serial No. 726,980. 26 Claims. (Cl. 210—24.)



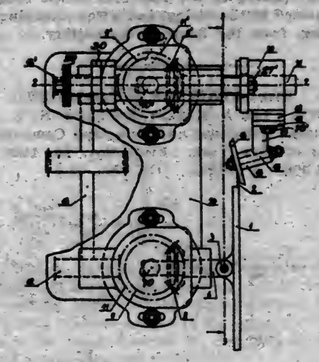
1. Apparatus of the class described, including a structure having a liquid passage therein extending first downwardly and then upwardly, means for permitting introduction of the liquid to be treated and the active seolites into the passage adjacent the top of the downwardly extending portion thereof, means for permitting withdrawal of the exhausted seolites from the passage adjacent the bottom of the downwardly extending portion thereof, and means for permitting withdrawal of the treated liquid from the passage adjacent the top of the upwardly extending portion thereof.

1,752,340. MEANS FOR COUNTER ROLLING A CIGARETTE PAPER. MAX PAUL ERNST HOHN, Dresden, Germany, assignor to the Firm Universelle Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Filed Nov. 17, 1927, Serial No. 233,937, and in Germany Nov. 26, 1926. 7 Claims. (Cl. 131—39.)



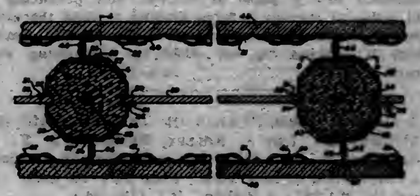
3. Means for counter rolling a cigarette paper shell having an inserted mouthpiece spiral, comprising a pocket member adapted to receive a cigarette shell, spreading means associated with said pocket member and including means adapted to be inserted into the mouthpiece spirals in said shells, and external means cooperating with said last named means to produce a counter rolling effect.

1,752,341. SHARPENING-ROLLER ARRANGEMENT FOR THE REVOLVING SICKLE KNIVES IN CIGARETTE-ROD MACHINES. MAX PAUL ERNST HOHN, Dresden, Germany, assignor to the Firm "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Filed Nov. 29, 1927, Serial No. 236,548, and in Germany Dec. 8, 1926. 7 Claims. (Cl. 131—37.)



1. Sharpening means for the revolving sickle knife of a cigarette rod machine, comprising a revolving carrier, a sharpening roller rotatably mounted on said revolving carrier, and means for causing said sharpening roller to come into engagement with the cutting edge of the revolving sickle knife in each revolution.

1,752,342. WALL CONSTRUCTION AND STRUCTURAL UNIT THEREFOR. MAXIMILIAN JABOSS, Jr., St. Albans, N. Y. Filed Oct. 7, 1926. Serial No. 139,990. 14 Claims. (Cl. 72—48.)

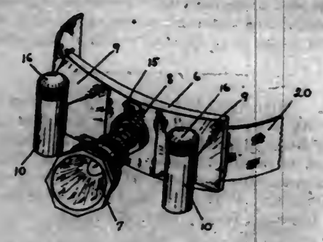


1. In a structural unit for walls, a wall face section having a plaster-receiving surface, and a pier-forming shell section connected to the wall face section and occupying a position parallel thereto, the pier-forming section constituting one-half of the pier form whereby two similar units can be assembled to provide a closed form for pouring a pier.

1,752,343. WORKER'S LAMP. LOUIS J. KANN, Cleveland, Ohio. Filed Dec. 24, 1928. Serial No. 328,146. 2 Claims. (Cl. 240—59.)

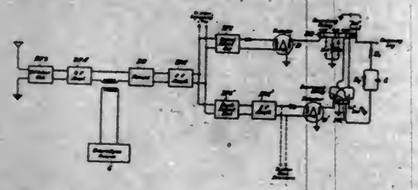
1. In a lamp apparatus, a belt, a hollow sheet metal casing to which the belt is attached, the front of said casing being embossed outwardly to form a hollow bracket

and having a battery receptacle fixed to the front of said bracket and communicating with the interior thereof



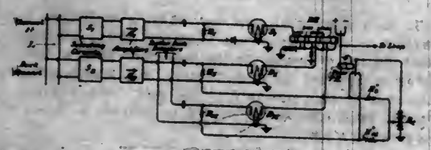
through an opening in the rear side of the receptacle, a lamp supported by the casing, and wires extending through the opening, from the lamp to the battery.

1,752,344. REDUCTION OF ATMOSPHERIC INTERFERENCE. LEO A. KELLEY, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 26, 1928. Serial No. 321,996. 5 Claims. (Cl. 178—44.)



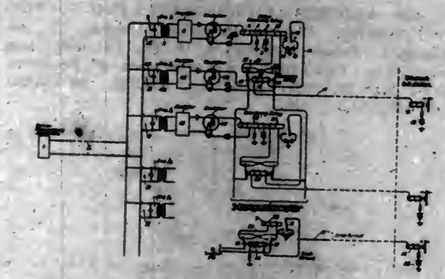
1. In a high frequency telegraph system, the method of suppressing atmospheric interference which consists in selecting a band of frequencies corresponding to the desired signal while partially suppressing interfering frequency components lying without said band, stepping down the resultant frequency components to a lower range in the frequency spectrum, selecting the band corresponding to the desired signal in its lower range while practically suppressing frequencies outside the band, detecting from the selected band signal pulses to actuate a receiving relay, selecting from frequencies in the lower range a component corresponding to the interfering wave and having a frequency in the neighborhood of the desired signal band in the lower range, translating the selected component into a pulse of current, and producing by said pulse of current a force tending to hold the armature of the receiving relay upon the contact against which it happens to rest when the interfering wave occurs.

1,752,345. REDUCTION OF ATMOSPHERIC DISTURBANCE. LEO A. KELLEY, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 26, 1928. Serial No. 321,997. 5 Claims. (Cl. 178—44.)



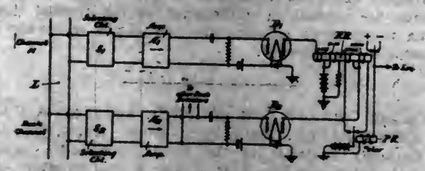
1. In a carrier telegraph system, a receiving channel including means to select a carrier frequency, means to detect therefrom a telegraph signal and a receiving relay, an auxiliary channel including means to select from an interfering wave a component having a frequency in the neighborhood of that of the receiving channel, means to translate said component into a pulse of current, a pair of oppositely poled auxiliary windings on said receiving relay, and means controlled by said relay to transmit said pulse through one of said windings during receipt of a marking signal and through the other of said windings during receipt of a spacing signal.

1,752,346. INTERFERENCE NEUTRALIZER FOR ALTERNATING-CURRENT TELEGRAPH SYSTEMS. LEO A. KELLEY, Elmhurst, and NEWTON MONK, New York, N. Y., and VAUGHN P. THORP, River Edge, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 1, 1929. Serial No. 336,884. 7 Claims. (Cl. 178—44.)



4. The method of substantially eliminating the effect of interference upon the reception of alternating current telegraph signals, which consists in selecting from the said interference a frequency lying outside the range of the frequency of the channel of the said signal, applying the said selected interference effectively to a translating device normally responsive to the marking and spacing impulses of the said transmitted channel, and automatically controlling the direction of application of the selected interference to the said translating device by and in accordance with the signal impulse being received at the instant of reception of the interference.

1,752,347. REDUCTION OF ATMOSPHERIC DISTURBANCE. FRANK A. LEIBE, Dunellen, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 26, 1928. Serial No. 322,007. 4 Claims. (Cl. 178—44.)

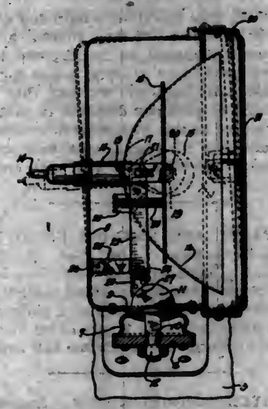


1. In a carrier telegraph system, a receiving channel including means to select a carrier frequency, means to detect therefrom a telegraph signal and a receiving relay, an auxiliary channel including means to select from an interfering wave a component having a frequency in the neighborhood of that of the receiving channel, a pair of oppositely poled auxiliary windings on said receiving relay, a detector associated with said auxiliary channel and arranged to supply a pulse of current to either of said windings in response to the component selected by said auxiliary channel, and means controlled by said relay for transmitting said pulse to one of said windings during receipt of a marking signal and to the other winding during receipt of a spacing signal.

1,752,348. ELECTROLYSIS OF FERROUS CHLORIDE. STANLEY ISAAC LEVY, London, England. Filed Feb. 25, 1928, Serial No. 257,096, and in Great Britain Feb. 10, 1928. 2 Claims. (Cl. 204—1.)

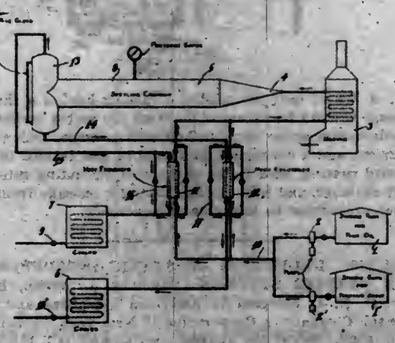
1. A process for the recovery of electrolytic iron and chlorine from ferrous chloride, consisting in electrolyzing a concentrated solution of the ferrous chloride in an electrolytic cell having a cathode, on which the iron is deposited, and an anode of inert material, said anode surrounded by a concentrated solution of a chloride of a metal more electro-positive than iron and collecting the chlorine evolved at the anode.

1,752,349. VEHICLE HEADLIGHT. ADOLPH C. MENNINGEN, West Allis, Wis. Filed Sept. 29, 1928. Serial No. 309,158. 7 Claims. (Cl. 240—41.)



1. A vehicle headlight, comprising a casing, a reflector movably mounted within the casing, a lamp bulb adjacent the reflector, means for adjustably connecting the casing to a vehicle, and a cam carried by said connecting means and adapted to coact with said reflector to maintain the same in a predetermined position of alinement with relation to the road travelled by the vehicle regardless of the position of the headlight casing.

1,752,350. APPARATUS FOR THE LYE TREATMENT OF PETROLEUM OILS. CHARLES K. PARKER, Richmond, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed July 12, 1926. Serial No. 121,841. 11 Claims. (Cl. 196—46.)



10. An apparatus for the continuous separation of petroleum oil mixtures, comprising a substantially horizontal settling chamber provided with an inlet of gradually increasing cross sectional area, adapted to convert turbulent to straight line flow, a main middle section, and an outlet enlarged over said middle section.

1,752,351. DRY-CELL-BATTERY SEALING COMPOSITION. HARRY ROTHENBERG, West Norwood, N. J., and SAMUEL L. HENKEN, Bronx, N. Y., assignors to Henry Hyman, Brooklyn, N. Y. Filed Feb. 17, 1927. Serial No. 169,130. 1 Claim. (Cl. 106—13.)

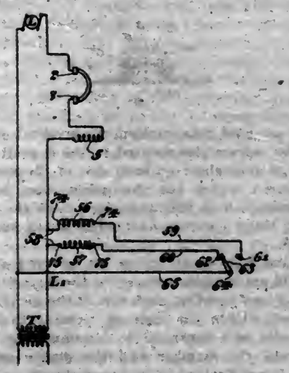
A composition for insulating dry cells comprising sulphur and rubber in the proportion for about 99 to 1.

1,752,352. CARTON-DISCHARGING DEVICE. AUGUST F. SCHMIDT, St. Petersburg, Fla. Filed Mar. 23, 1928. Serial No. 264,013. 9 Claims. (Cl. 221—11.)



1. A carton discharging spout comprising a frame, a spout on one face thereof having a self-closing lid, a carton cutting flange on the opposite frame face, and a spout locking member hinged to the spout and constructed to engage the inner face of the carton and outer frame face, and a fastening catch therefor.

1,752,353. CONTROL SYSTEM. WILLIAM M. SCOTT, Tredyffrin Township, Chester County, Pa. Filed Dec. 3, 1926. Serial No. 152,358. 33 Claims. (Cl. 175—294.)

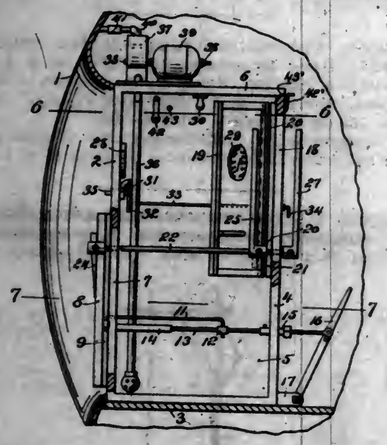


1. A control system comprising non-closable switching mechanism including an operating structure, means operative for effecting an application of power to move said structure in one direction and thereafter in another direction to perform a circuit-controlling operation, and subsequently operative to change the magnitude of said power to effect thereby a different circuit-controlling operation, and means forming part of said first-named means and disposed in a region remote from said mechanism.

1,752,354. SAFETY APPARATUS FOR BOATS. FRED A. SIEVERLING, Great Bend, Kans. Filed Apr. 30, 1928. Serial No. 274,067. 7 Claims. (Cl. 114—16.6.)

1. In a safety apparatus for boats, a boat hull having a compartment, the outer wall of which is the wall of the

hull, said outer wall and one of the inner walls of the compartment being provided respectively with doorways, two doors respectively closing said doorways, said compartment being air tight when both doors are closed, means



operable from inside and outside the hull and from in said compartment for admitting water into said compartment, and means having starting and stopping means operable from in said compartment for pumping water from said compartment.

1,752,355. ROOF STRUCTURE FOR RAILWAY CARS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Original application filed Apr. 19, 1926, Serial No. 103,069. Divided and this application filed Feb. 6, 1928. Serial No. 252,353. 8 Claims. (Cl. 105—355.)



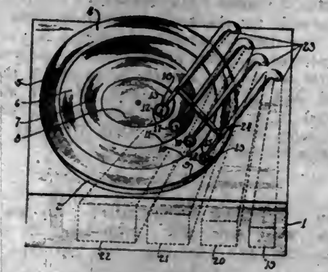
1. In a car roof construction, an inverted channel member with its extremities secured to the opposite side plates of the car, a roof sheet on each side of the member, and a device secured within the channel member and arranged to accommodate load lifting devices, both the member and the device being entirely above the lower surface of the roof sheets.

2. In a car roof construction, an inverted channel member with its extremities secured to the opposite side plates of the car, a roof sheet on each side of the member, and a device secured within the channel member to the opposite walls thereof and arranged to accommodate load lifting devices, both the member and the device being entirely above the lower surface of the roof sheets.

1,752,356. PROCESS FOR RECLAIMING BATTERY-PLATE MATERIAL. WALTER C. SMITH, Moylan, Pa., assignor to Primos Lead Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 14, 1927. Serial No. 161,234. 2 Claims. (Cl. 204—1.)

1. The process for reclaiming lead from lead bearing material which comprises crushing and screening the material to separate the metallic portions from the non-metallic portions, leaching the non-metallic portions with a caustic solution to dissolve the lead compounds therein, precipitating impurities from the solution by treatment with sponge lead, separating the purified solution, and electrically precipitating sponge lead from the solution.

1,752,357. PHONOGRAPH CONSTRUCTION. HUGO WIENER, Madisonville, Ky. Filed Aug. 31, 1928. Serial No. 303,846. 1 Claim. (Cl. 274—42.)

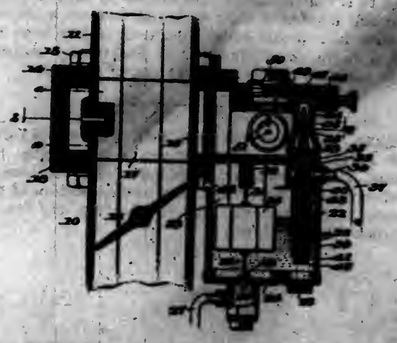


A device of the type described comprising a record having a plurality of sections of tone grooves, a plurality of reproducing units arranged to be disposed in operative engagement with said tone grooves, means for operatively connecting said units together, whereby they may be actuated in unison, diaphragms disposed in said units, said diaphragms varying in size with respect to each other, and horns communicating with said units, said horns varying in size with respect to each other and with respect to said diaphragms.

1,752,358. PAINT AND VARNISH REMOVER. OSCAR G. WINZER, Troy, Kans. Filed Nov. 16, 1928. Serial No. 320,001. 1 Claim. (Cl. 87—5.)

A solution of the character described consisting of a mixture of 16 parts of denatured alcohol, 2 parts of spirits of turpentine, 2 parts of benzol, 1 part of oil of wintergreen, and $\frac{1}{4}$ part of a solution of turpentine and permanent red.

1,752,359. HYDROCARBON MOTOR. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 16, 1919. Serial No. 331,041. 4 Claims. (Cl. 123—122.)



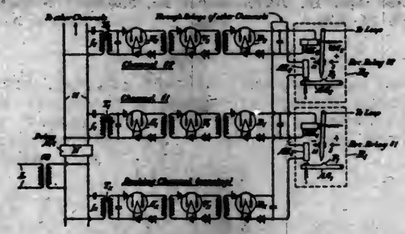
1. A heater unit comprising a casting having a through passage therein for the mixture from the motor carburetor, a combustion space surrounding said passage, and a float chamber, and a carburetor arranged in and formed in part by said casting, said latter carburetor extending into said float chamber, and said casting having a passage from said latter carburetor to said combustion space.

1,752,360. REDUCTION OF STATIC INTERFERENCE IN CARRIER SYSTEMS. HERMAN A. AFFEL, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 15, 1928. Serial No. 319,683. 9 Claims. (Cl. 178—44.)

1. In a multiplex carrier system comprising a plurality of receiving channels each including a receiving relay, the

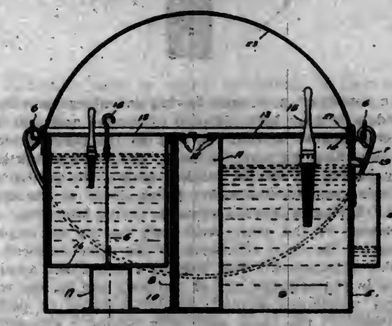
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method of reducing false signals due to interference, which consists in selecting from the interfering energy a component whose frequency differs from the carrier frequencies



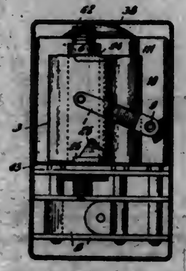
assigned to the channels, translating the energy of the selected component into mechanical energy, and applying said mechanical energy to restrain the movement of the armatures of the receiving relays of the channel.

1,752,361. BRUSH HOLDER. HENRY C. AULWES, Hartford, S. Dak. Filed June 15, 1928. Serial No. 285,619. 2 Claims. (Cl. 91—63.)



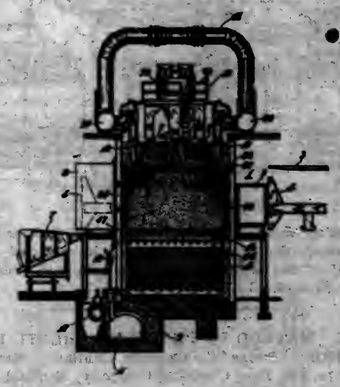
1. A paint brush preserving bucket comprising a cylindrical body, a vertically disposed partition formed therein to provide a pair of separate compartments, a centrally disposed post arranged in the body at one side of the partition, and a plurality of radially disposed brush supporting arms having their inner ends supported by said posts and their opposite ends supported by the outer cylindrical wall of the body.

1,752,362. RECORDING THERMOMETER. WELCH BARSTOW, Los Angeles, Calif., assignor to Recording Thermometer Company, Los Angeles, Calif., a Corporation of Washington. Filed June 8, 1922. Serial No. 566,740. 10 Claims. (Cl. 234—11.)



1. In a thermometer, the combination with a movable temperature indicating member; of two elements expansible by heat, each element comprising a coil including a plurality of convolutions, said coils being bodily wound and concentric, and each element being fixedly mounted at one end and both of said expansible elements having their free ends connected with said indicating member to actuate the latter in the same direction.

1,752,363. COKING RETORT OVEN. JOSEPH BECKER and JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignors to The Koppers Company, a Corporation of Pennsylvania. Filed Sept. 27, 1926. Serial No. 137,859. 23 Claims. (Cl. 202—5.)



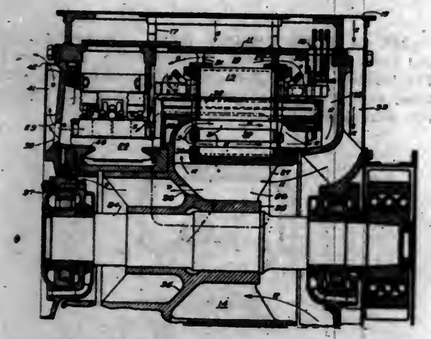
1. In a battery of coke ovens, the combination with a horisontally elongated coking chamber, of a cross-regenerator underneath said chamber and separated therefrom directly by the base and sole of the latter, two collecting mains connected to said chamber near its ends and regulating means for maintaining substantially constant pressure above atmospheric on said mains while withdrawing gas thereto from said chamber during the charging thereof.

12. In a method of charging coal into and coking the same in a battery of high-chambered horisontal coke-ovens of cross-regenerative type with withdrawal of distillate gases into a collecting main, the improvement which comprises: maintaining continuously a substantially constant pressure above atmospheric in the collecting main system into which the distillate gases are delivered from the hot oven chambers individually, said pressure being regulated to maintain a sufficient back-pressure on the oven-chambers to prevent the lower portions of the high chambers from exerting substantial suction, during the advanced coking stages, upon the masonry separating such chambers from the adjacent regenerative and other air and fuel-gas spaces and conduits; charging coal into the hot oven-chambers through their tops, and leveling the accumulating charges; forcing into the aforesaid pressure main system the smoke and gas evolved during charging, by withdrawing such smoke and gas from the oven tops by forced draft upon opposite sides of the accumulating charges; and controlling said forced draft individually for the ovens being charged, and to such degree as to overcome the aforesaid back pressure from the collecting system and at the same time maintain such a pressure balance in the tops of said ovens as substantially to prevent outflow of smoke or detrimental indux of air through the charging and other openings temporarily exposed to the atmosphere during the charging operations.

1,752,364. ARMATURE VENTILATION. PAUL BOLLINGER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 6, 1929. Serial No. 337,954. 21 Claims. (Cl. 172—286.)

1. In a dynamo-electric machine, a machine casing provided with ventilating openings, a stator, a rotor com-

prising a spider member having longitudinal passages, an armature core having longitudinal passages, means for directing ventilating fluid entering said casing to the mouth of the spider passages, said spider having a radial-

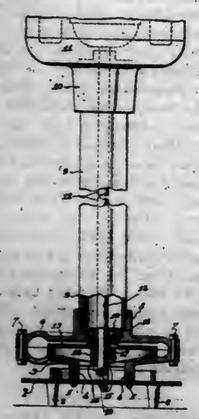


ly extending flange portion for causing the ventilating fluid passing through the spider to be directed to the inner end of the armature core and into said ventilating passages thereof.

1,752,365. METHOD OF PURIFYING PHENYL ETHYL ALCOHOL. EDGAR C. BRITTON, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 9, 1923. Serial No. 644,476. 6 Claims. (Cl. 260—156.)

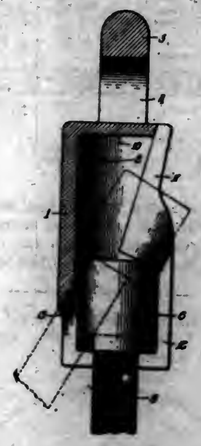
1. A process of purifying synthetic phenyl ethyl alcohol, which comprises selectively converting the phenyl ethyl alcohol content of the impure crude alcohol into a monophenyl ethyl phthalate salt of an alkali-forming metal in water solution, washing such solution with an organic solvent in which the reactants are soluble but non-reactive therewith, and hydrolyzing the phthalate salt into phenyl ethyl alcohol.

1,752,366. PUMP. FRANK G. BROWN, Detroit, Mich. Filed June 18, 1928. Serial No. 286,210. 7 Claims. (Cl. 103—87.)



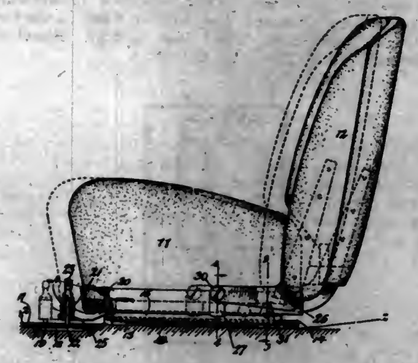
1. In combination, a rotary shaft, a rotor loosely mounted thereon, a compressible packing surrounding said shaft at said rotor, and a cam connection between said shaft and rotor adapted to shift the latter on rotation of the shaft and thereby compress the packing.

1,752,367. CHOKER HOOK. WILLIAM CHARLTON BRUTON, Albany, Calif., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 13, 1929. Serial No. 354,749. 8 Claims. (Cl. 24—123.)



1. In combination, a cable having an enlargement upon one end, a logging hook adapted to receive and seat the cable enlargement so that the pull on the cable is along the longitudinal axis of the hook, said hook comprising a body having an interior socket adapted to receive the cable enlargement, said socket being closed at its upper end but having a slotted opening in its lower end for the passage of the cable, said body having an angular opening for the axial admission of the cable followed by the cable enlargement, said body having another angular opening in the opposite side of the body and in line with the first mentioned angular opening adapted to permit the passage of the cable, said body having a connecting slot from the first mentioned angular opening to the slotted opening in the lower end of the body and connecting the second mentioned angular opening to the slotted portion in the end of the body.

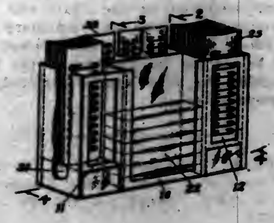
1,752,368. SEAT MOUNTING FOR AUTOMOBILES. HERMANN A. BRUNN, Buffalo, N. Y., assignor to Brunn and Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed June 28, 1928. Serial No. 289,018. 2 Claims. (Cl. 155—14.)



1. A device of the character described, comprising longitudinal rails mounted on the floor of the car, a seat

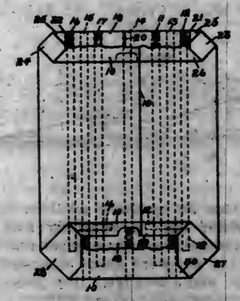
having runners slidable lengthwise on said rails, a back rest, and means for foldably connecting said back rest with said seat including arms pivoted on said runners, and stops arranged on said runners and adapted to be engaged by said arms.

1,752,369. DISPLAY CABINET. ROMAINE CLARK CHAPMAN, Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 25, 1928. Serial No. 256,875. 7 Claims. (Cl. 211—156.)



1. A display case or stand comprising a main body piece formed to provide a bottom, front, and back, with wings forming the ends of the case and secured between the front and back, cutouts in the front, a supplemental front piece inset from the main front piece and forming an article holding compartment, narrower article holding compartments at each side of the supplemental front piece, and a compartment between the supplemental front piece and the back of the stand.

1,752,370. MULTIPLE-WALLED BAG. JOHN E. CONNELL, Chicago, Ill., assignor, by mesne assignments, to Bates Valve Bag Corporation, Chicago, Ill., a Corporation of New Jersey. Filed June 15, 1925, Serial No. 37,014. Renewed Oct. 8, 1929. 2 Claims. (Cl. 150—9.)



2. A bag having walls comprising a plurality of layers of paper, one end of the bag being closed by folding upon each other flaps formed by the bag walls, the several layers of the wall forming the outer edge of the outer flap being secured together, and the several layers of the wall forming one of the inner flaps being free from adhesive and movable relative to each other, and said inner flap being suitable for forming a valve.

1,752,371. RECEPTACLE AND PROCESS FOR MAKING SAME. ANTHONY DANIELS, Newark, N. J. Filed Oct. 25, 1924. Serial No. 745,933. 5 Claims. (Cl. 150—1.)



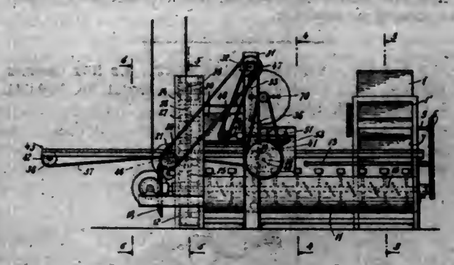
1. An article of the character described comprising a seamless tubular body portion made of material composed principally of transparent nitro-cellulose and a metallic band secured at the interior of an end of the body portion.

1,752,372. FAN UNIT. GEORGE DE BOTHEZAT, New York, N. Y. Filed June 30, 1928. Serial No. 289,535. 1 Claim. (Cl. 98—94.)



In a ventilating system, the combination with a window frame, brackets secured to the top of said frame within the groove for the lower window sash, a panel removably secured to said brackets provided with a fan opening therein, a circular frame secured to said panel provided with an integral motor supporting table, a disk pressure fan within said circular frame, a motor secured to said supporting table adapted to rotate said fan, extensible end sections embracing the ends of said panel and slidingly adjustable thereover, the sections being adjustable to the width of said window frame and fitting snugly within the side grooves of the lower window sash, and fastening means passing through said panel and also through said end sections for securing said end sections and panel in adjusted relationship.

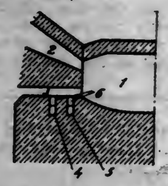
1,752,373. CONCRETE-BLOCK MACHINE. CHARLES DIETRICHS, Little Ferry, N. J., assignor, by mesne assignments, to Walker Cement Products, Inc., Union City, N. J., a Corporation of New Jersey. Filed June 6, 1922. Serial No. 566,390. 3 Claims. (Cl. 25—99.)



1. In a machine of the type described, the combination of a concrete mixing device, means for conveying molds

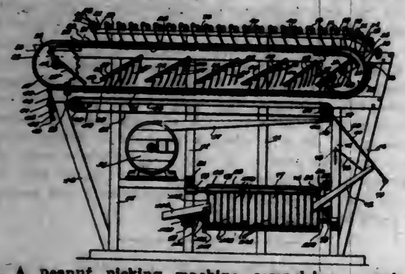
through the machine over said mixing device, means for conveying the concrete to the molds above said mixing device, means arranged above said mixing device for tamping the concrete in the molds, and means for scraping the excess concrete from the molds and returning it to said mixing device.

1,752,374. PROCESS OF PRODUCING STEEL IN AN OPEN-HEARTH FURNACE. ROBERT DURRER, Berlin-Wannsee; FRIEDRICH CARL SIEMENS, Berlin-Dahlem; and ARTHUR SPRENGER, Berlin-Charlottenburg, Germany, assignors to Friedrich Siemens Aktiengesellschaft, Berlin, Germany, a Corporation of Germany. Filed Jan. 28, 1927, Serial No. 164,257, and in Germany Sept. 26, 1925. 11 Claims. (Cl. 75—27.)



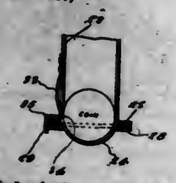
9. In a process of producing steel in an open hearth furnace, the method of protecting during a part of the process the melt against oxidation, consisting in forming a protective layer between the heating flame and the melt, said layer being composed of fuel gas only partly mixed with combustion air and sweeping the entire width of the melt, and of a layer of fine and coarse pulverized coal injected below the fuel gas layer, so that a protective pulverised coal atmosphere is formed between the gas layer and the melt.

1,752,375. PEANUT-PICKING MACHINE. COY M. DYKES, Ariton, Ala. Filed May 10, 1928. Serial No. 276,684. 12 Claims. (Cl. 130—30.)



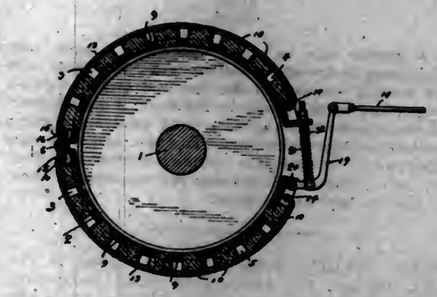
1. A peanut picking machine comprising a pair of spaced apart horizontal screens, an endless conveyor passing over rollers at the end of the upper screen and having the opposite runs thereof travelling above the upper and lower screens, respectively, for moving the leguminous plants over said screens so that the pods may drop through the screens successively.

1,752,376. VENDING MACHINE. LE ROY GREENE, Chicago, Ill. Filed Feb. 13, 1929. Serial No. 339,631. 1 Claim. (Cl. 194—39.)



A coin controlled ejector mechanism or slug vending machine of the character described comprising a guide plate having a coin receiving trough portion adjacent one end, said trough being provided with a coin discharge aperture adjacent one of its ends, channel forming flanges on the longitudinal side of the guide plate, one of said flanges having a detent receiving recess communicating with the channel at a point adjacent the trough and spaced longitudinally from the coin discharge opening in said trough, a spring controlled slug ejector slidably mounted on the guide plate having a coin receiving slot communicating with the trough and a detent recess in its longitudinal side for registry with the recesses in the flange, a coin delivery chute having its discharge end disposed for registry with the coin slot in the ejector and having a detent receiving recess in its lower end portion on the side adjacent the recessed side of the flange and ejector and a coin actuated resilient detent anchored on the chute and projecting through the recess therein and into said chute and terminating in an outwardly and downwardly turned latch portion adapted to seat in the recesses in the flange and ejector for locking the latter against longitudinal movement on the guide plate.

1,752,377. BRAKE. JOHN GLUECK, West New York, N. J., assignor of one-half to Rene Hunkle, Grantwood, N. J. Filed Feb. 5, 1927. Serial No. 166,166. 5 Claims. (Cl. 188—77.)



1. A brake band, friction blocks, compartments in said band for each of said blocks and a single band for retaining said blocks in said compartments.

1,752,378. AIRPLANE-WING SECTION. LEW WALLACE GOBBLE, Grand Junction, Colo. Filed Mar. 23, 1929. Serial No. 349,303. 7 Claims. (Cl. 244—12.)

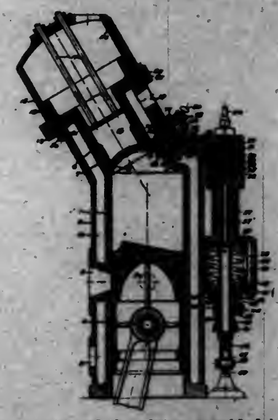


1. A wing section for airplanes outlined by a substantially straight lower line; a relatively long undulating upper line; the undulations in said upper line comprising; a forward ridge; a rearward ridge separated by a relatively deep valley; and a relatively thin projecting leading edge extending beyond said forward ridge.

1,752,379. INTERNAL-COMBUSTION ENGINE. JOHN B. GOODWIN, San Francisco, Calif. Filed Nov. 9, 1925. Serial No. 67,738. 1 Claim. (Cl. 123—192.)

An internal combustion engine comprising a working cylinder, a compensating cylinder, a wall enclosing a pressure chamber of greater diameter than the compensating cylinder, a piston within the compensating cylinder adapted

to be acted upon by pressure within the working cylinder, a piston provided in said pressure chamber and secured to said first piston, and means for maintaining the pressure within said pressure chamber, said means including a by-pass formed in and providing communication thru said



wall from one side of the piston provided in the pressure chamber to the opposite side thereof, a check valve secured in said wall and adapted to work in said by-pass, and an air inlet valve opening into the atmosphere from one side of the piston provided in the pressure chamber.

1,752,380. KEY AND LICENSE HOLDER. HENRY GRESS, South Ozone Park, Long Island, N. Y. Filed May 29, 1928. Serial No. 281,392. 3 Claims. (Cl. 40—10.)



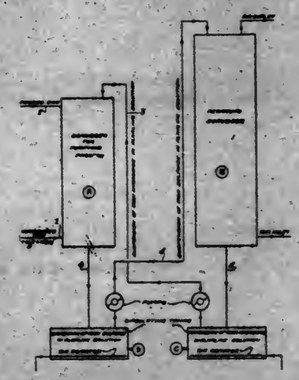
1. In a key and license holder of the class described, a bar disposed between and attached on the sheets forming the holder, and formed with a forward bent end with a lateral free extremity, a projection spaced from the bent end and attached on the bar, the bent end and projection being formed with slots arranged to receive the edge of a license, guide rods extended between the projection and said end, a license clamp mounted on the guide rods, and springs on the rods normally urging the license clamp behind the said lateral free extremity of the forward bent end for preventing opening of the clamp.

1,752,381. AUTOMOBILE BUMPER. JAMES M. HOWE, Cleveland, Ohio, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 27, 1928. Serial No. 315,483. 13 Claims. (Cl. 293—55.)



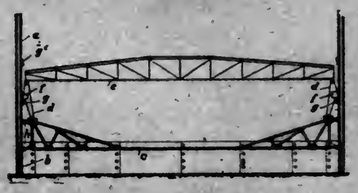
1. A bumper comprising a supporting bar and a plurality of impact bars secured to said supporting bar, one of said impact bars having alternate forwardly and rearwardly extending bends formed therein and being tilted upwardly from a horizontal plane whereby said bar appears to have a plurality of vertically arched portions when the bumper is viewed from the front.

1,752,382. GAS-PURIFICATION PROCESS. DAVID L. JACOBSON, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 8, 1921. Serial No. 520,786. 2 Claims. (Cl. 23—3.)



1. In a process of purifying gases containing hydrogen sulphide, the combination of steps which consists in: washing the gas with an alkaline solution containing an iron compound having an affinity for sulphur; and then passing the spent wash-liquor through a plurality of successive differing regeneration treatment stages, in the first of which a body of said liquor is subjected to a preliminary agitation accompanied by regenerating aeration and is thereafter subjected to a regenerating aeration that effects a thorough and intimate contact of air with the flowing liquor.

1,752,383. GAS RESERVOIR. KONRAD JAGSCHITZ, Mainz, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany, a Corporation of Germany. Filed Feb. 26, 1926, Serial No. 90,981, and in Germany Oct. 28, 1925. 2 Claims. (Cl. 48—179.)



1. In an arrangement for use in building gas reservoirs of the disk type, the combination of upright posts on which a shell is adapted to be built up in courses, a sealing disk vertically slidable in said shell and serving as a working scaffold for erecting the shell in progressive courses, said sealing disk being arranged to be raised to progressively higher levels as the erection of the shell proceeds, upright supporting members on said sealing disk, a roof structure adapted to constitute the roof of the completed reservoir mounted upon said supporting members and forming a protective covering for said sealing disk, holding members mounted on said upright posts, and suspending hooks carried by said supporting members and arranged to detachably engage said holding members for positively supporting said sealing disk and the roof structure at said progressively higher levels.

1,752,384. HYPODERMIC SYRINGE. WILLIAM F. JAMISON, Los Angeles, Calif. Filed July 2, 1928. Serial No. 289,904. 5 Claims. (Cl. 128—218.)

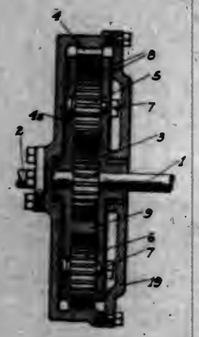
1. A syringe of the character described comprising a barrel adapted to receive an ampule, a head removably

applied to the forward end of the barrel and having a sleeve slidably extending therethrough, a hypodermic needle extending through said sleeve and the head and provided near its inner end with a rigid seat engaging the



inner end of said sleeve, a washer on the inner end of the needle at the inner side of said seat adapted to make fluid tight contact with the end of the ampule when the needle is adjusted inwardly and means to inwardly adjust said sleeve for correspondingly adjusting the needle.

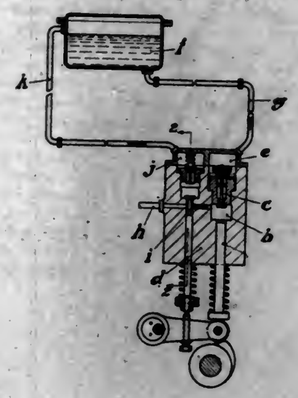
1,752,385. AUTOMATIC HYDRAULIC TRANSMISSION. ALFRED A. JOHNSON, Sacramento, Calif. Filed Aug. 31, 1929. Serial No. 389,849. 4 Claims. (Cl. 74—34.)



1. A hydraulic-controlled transmission structure including alined drive and driven shafts, a gear on the drive shaft, an internal gear on the driven shaft, a pinion meshing with the gear, another pinion meshing with said first pinion and internal gear, plates between which said pinions are closely disposed and on which they are mounted, said plates being turnable about the drive shaft as an axis, the space between the plates forming an oil chamber, restricted oil passage means from said space to the intermeshing portions of the gear and adjacent pinion, another passage between both said intermeshing portions, a valve in said last named passage, and a spring resisting the opening of the valve.

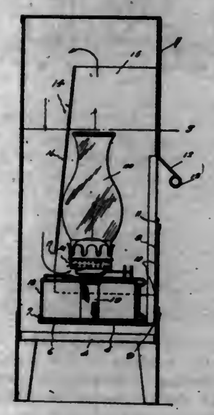
1,752,386. FUEL PUMP FOR MULTICYLINDER INTERNAL-COMBUSTION ENGINES. JOHANN MAHLER, Augsburg, Germany, assignor to the Firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Apr. 11, 1925, Serial No. 22,374, and in Germany May 10, 1924. 3 Claims. (Cl. 123—140.)

3. A multi-cylinder fuel pump of the character described comprising a unitary pump block structure, a plurality of pump units within said structure for pumping fuel to the respective cylinders, injection pipes for connecting said several pump units with the respective cylinders, said unitary pump structure having a common suction chamber formed therein for supplying fuel to said plurality of pump units, a relief passage for each said injection pipe, said unitary pump structure also having a common relief chamber formed therein in communica-



tion with each of said relief passages, said common relief chamber being closed from direct communication with said common suction chamber.

1,752,387. HEATING STOVE. HARRY L. MCKOWN, Wheeling, W. Va. Filed Mar. 30, 1929. Serial No. 351,360. 2 Claims. (Cl. 126—96.)



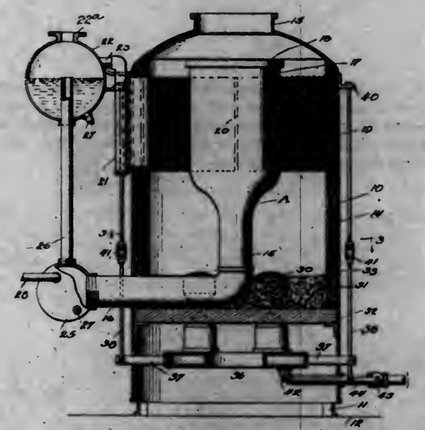
1. A stove of the character described comprising a casing, a shelf supported within the casing and adjacent the bottom thereof, a burner for disposition upon said support, a vertically disposed deflector wall supported within the casing and being spaced at its upper and lower edges from the top of the casing and the shelf respectively, said deflector wall comprising a single sheet of metal bent at its end portions to provide end walls for attachment to the inner side of the front wall of the casing.

1,752,388. CORE DRILL AND BIT. WILLIAM I. MCLAUGHLIN, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed July 28, 1926. Serial No. 125,373. 5 Claims. (Cl. 255—72.)



1. A rotary core bit comprising a body member having a central bore, the lower face of the member having annular surfaces beveled upwardly away from the bore on two distinct angles to form a face corresponding generally to a pair of concentric intersecting cones forming a circular shoulder along their line of intersection.

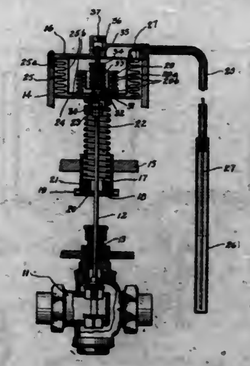
1,752,389. BOILER. BARTHOLOMEW J. MORRISON, Baltimore, Md. Filed Jan. 23, 1928. Serial No. 248,748. 10 Claims. (Cl. 122—261.)



1. In a boiler, a water leg vertically disposed therein and having a connection at one end with an exterior source of water supply and having at its other end a portion of increased diameter and formed as a closed inverted bell, a heating coil comprising an elongated tube having a connection with and helically disposed about said inverted bell portion, a drum disposed beyond the heating zone of the boiler and receiving the heated fluid from said coil, and means to segregate the impurities from the fluid in the drum including a connection between said drum and the water leg, the increased diameter of the leg permitting and causing the fluid to expand therein, whereby a thermo-siphonic circulation is set up.

1,752,390. TEMPERATURE REGULATOR. ALBIN JOHN NELSON, Brooklyn, N. Y. Filed Apr. 21, 1928. Serial No. 271,757. 10 Claims. (Cl. 236—99.)

1. A device of the character described, including a valve for controlling the flow of a heating medium, a vessel having a flexible wall connected to said valve, a bulb in communication with said vessel, and a flexible walled relief chamber for the bulb in communication therewith, said bulb, said vessel, and said chamber being charged with an expansive fluid, said relief chamber being of



smaller area than the vessel and expansible only after expansion of the vessel, said vessel and said chamber being in aligned relation and having a common wall therebetween, said wall having an opening affording communication between the vessel and chamber.

1,752,391. METHOD OF LOADING EXPLOSIVES. FREDRICH OLSEN, East Alton, Ill., and CLARENCE J. BAIN, Dover, N. J. Filed June 14, 1929. Serial No. 371,041. 3 Claims. (Cl. 86—20.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

3. The method of loading explosives into a container which consists in pouring a molten explosive into the container and then adding pellets of ammonium nitrate.

1,752,392. PEN. WALTER C. PARMLEY, Upper Montclair, N. J. Filed Nov. 23, 1925. Serial No. 70,778. 6 Claims. (Cl. 120—114.)



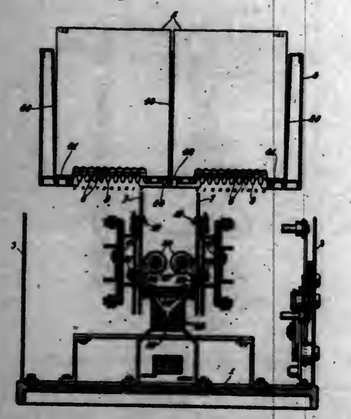
1. The combination with a pen having a point and a tapering concave body, of a clasp having a sliding fit with the sides of the body and adjustable thereon to exert a varying pressure on the body to vary the stiffness of the point.

1,752,393. TOOTHBRUSH. RALPH E. RAWSON, St. Louis, Mo. Filed May 26, 1928. Serial No. 280,689. 3 Claims. (Cl. 15—172.)



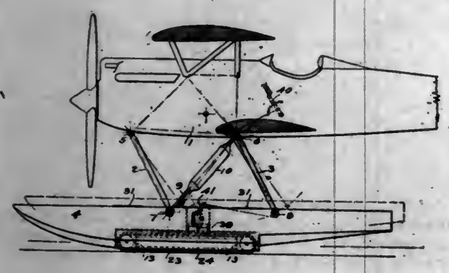
1. A tooth brush comprising a handle having a flat terminal loop; a brush-holding clamp mounted upon one face of said loop; a spring-washer mounted upon the opposite face of said loop; and a pin having a head resting upon the outer face of said washer, said pin extending through said washer and loop, and fixedly mounted in said clamp.

1,752,394. ACCOUNTING APPARATUS AND SYSTEM. EDWIN L. KELLER and VICTOR R. A. STROH, St. Louis, Mo., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 8, 1920. Serial No. 422,657. 26 Claims. (Cl. 129—16.1.)



22. An apparatus of the character described, comprising, a plurality of normally effective selector mechanism sections, and selective manipulative means adapted to render one or more of said sections ineffective.

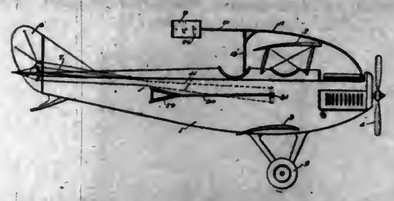
1,752,395. LANDING GEAR. HOLDEN C. RICHARDSON, Washington, D. C. Filed Oct. 4, 1926. Serial No. 139,395. 2 Claims. (Cl. 244—2.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. In a seaplane, a body portion, pontoons carried thereby, shock absorbing mechanisms mounted between the body portion and pontoons and a speed retarding mechanism mounted in recesses in the pontoons, said mechanisms comprising endless belts, rollers over which the belts pass, guideways in the rollers, and means carried by one of the belts operable in the grooves for maintaining the belts in place.

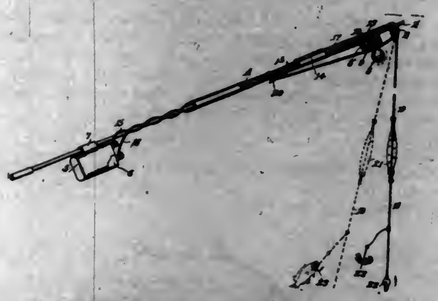
1,752,396. STABILIZER FOR AEROPLANES. FRED RUMFORD, Jetmore, Kans., and HAROLD THOMAS HENRY, New York, N. Y. Filed May 19, 1928. Serial No. 278,952. 3 Claims. (Cl. 244—29.)

1. In an aeroplane having stabilizing ailerons thereon for maintaining the same in transverse balance, of automatic stabilizing means comprising an aileron control vane, vertically extended supporting means therefor pivotally supported upon bearings disposed in axial alignment with the longitudinal axis of the machine and connections from said supporting means to the ailerons, said



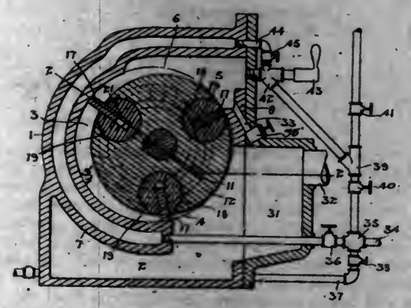
connections including a releasable clutch device and manual means for actuating the clutch device for connecting or disconnecting the control vane for automatic or manual control of the ailerons as desired.

1,752,397. FISHING DEVICE. CYRUS V. SEE, Hardin, Mo. Filed Feb. 25, 1929. Serial No. 342,458. 4 Claims. (Cl. 43—17.)



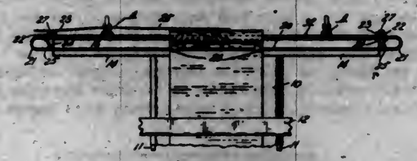
1. A fishing device comprising a pole, a metal contact member carried by the end of the pole, and a spring pressed contact ring receiving the contact member and normally held in spaced relation by said spring, and a fishing line extended through said ring.

1,752,398. OIL AND AIR MIXING DEVICE IN THE FORM OF VACUUM PUMPS. WILLIAM E. SHORE, New York, N. Y. Filed July 31, 1922. Serial No. 578,649. 4 Claims. (Cl. 48—187.)



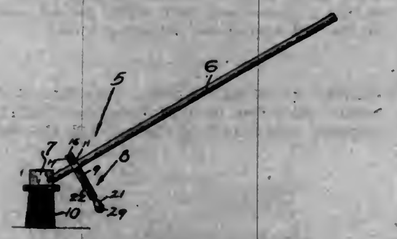
1. An oil and air mixing device, comprising a casing formed with a cylindrical inner chamber having inlet and discharge chambers connected therewith, a rotor interposed between said inlet and discharge chambers, a bye-pass connecting said latter chambers, means unaffected by the pressure of discharge for controlling the pressure flow through said bye-pass, and means for feeding liquid fuel to the intake chamber along with a quantity of supporting air to effect their intimate association under conditions of vacuum and pressure in rapid progression and final discharge into said discharge chamber.

1,752,399. COPYHOLDER. GEOFFREY STEVENSON, Brookline, Mass. Filed Aug. 27, 1927. Serial No. 215,931. 17 Claims. (Cl. 120—28.)



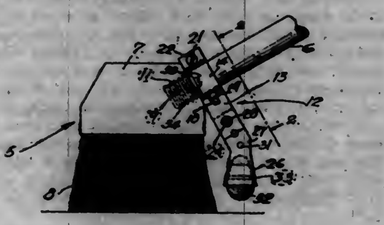
1. In a copy holder, a copy support, and means for holding a copy thereon, comprising a main clamp which is mounted to move towards and bear on said copy and also to move to release said copy, and a supplemental clamp which is mounted on said copy holder and is adjustable laterally thereof relatively to said main clamp and is constructed to engage said copy and cooperate with said main clamp in holding said copy on said support, said supplemental clamp being operable independently of said main clamp and having a part which is actuated by said main clamp to operate said supplemental clamp when the main clamp is operated.

1,752,400. BUMPER LEG FOR BROOMS. ALFRED D. SUND, Santa Rosa, Calif. Filed Feb. 24, 1928. Serial No. 256,557. 5 Claims. (Cl. 15—246.)



1. In a bumper leg for a broom handle, a bracket, adjustable means on the bracket for securing the same to the broom handle; and adjustable means for securing a bumper to the free end of said bracket.

1,752,401. BUMPER FOR BROOMS. ALFRED D. SUND, Santa Rosa, Calif. Filed June 27, 1928. Serial No. 288,654. 5 Claims. (Cl. 15—246.)



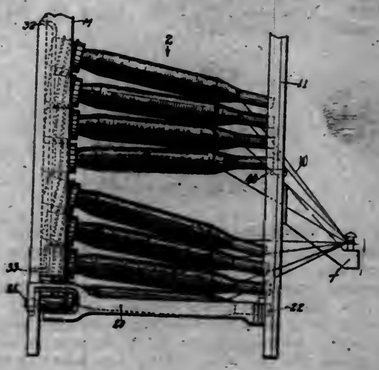
1. In a bumper leg for a broom, said broom having a handle thereon; an element secured to the broom head and extending at an angle to the broom head and to the broom handle; means on said element for clamping the broom handle and for obviating the movement of the handle relatively to the broom; and bumping means on the end of said element.

1,752,402. INLAID LINOLEUM AND PROCESS OF PRODUCING SAME. JOHN TOMEC and FRANK CUBEDA, Trenton, N. J., assignors to W. & J. Sloane Manufacturing Company, a Corporation of New Jersey. Filed July 28, 1928. Serial No. 295,861. 21 Claims. (Cl. 154—26.)



21. An inlaid sheet of linoleum or the like having consolidated tesserae separated somewhat from each other and embedded in a consolidated but somewhat soft base material and standing in relief with respect to interposed and exposed portions of the base material, and having visually-apparent irregularities of joint width and groove shape which are not necessarily reproduced in successive repeat areas.

1,752,403. WEFT-REPLENISHING MECHANISM FOR LOOMS. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 12, 1928. Serial No. 305,480. 4 Claims. (Cl. 139—245.)

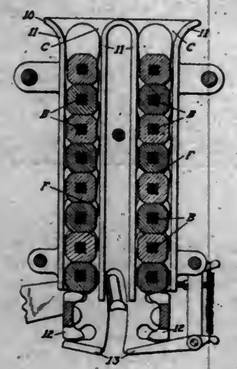


1. In a weft replenishing magazine operating with bobbins the butts of which are each provided with a non-cylindrical surface extending substantially parallel to the axis of the bobbins, the yarn on the bobbins being wound to a diameter less than the diameter of the bobbin butts, a guideway for the butts of the bobbins, a second guideway for the tips of the bobbins, the bobbins moving down the guideways by gravity, a device extending along the guideway for the butts to engage the non-cylindrical surfaces and prevent rotation of the bobbins about their axes, and stationary means located along the guideway for the tips of the bobbins to engage the tips and prevent such an inclination of the bobbins in the upper part of the guideways as would move the non-cylindrical surfaces of the bobbin butts away from the device.

1,752,404. MULTICOLOR MAGAZINE. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 26, 1928. Serial No. 315,041. 2 Claims. (Cl. 139—245.)

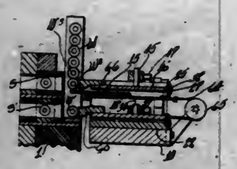
1. In a weft replenishing mechanism, spaced walls forming a compartment along which bobbins may move

towards transfer position and a plurality of superposed bobbins in said compartment, said bobbins being of non-circular section and when wound having outer yarn sur-



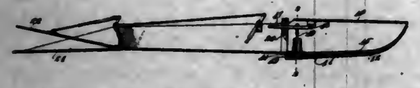
faces of similar non-circular outline engaging each other to resist relative angular movements in said compartment.

1,752,405. WEFT-REPLENISHING MECHANISM FOR DOUBLE-SHUTTLE LOOMS. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 23, 1929. Serial No. 357,514. 8 Claims. (Cl. 139—242.)



1. In a double shuttle loom, a magazine having a single substantially vertical weft carrier compartment adapted to contain a plurality of superposed weft carriers, independently operable and horizontally movable transferrers for the upper and lower shuttles respectively, a supporting device effective to normally maintain the next to the lowest weft carrier in said magazine in horizoutal alignment with the upper shuttle, and means to withdraw said supporting device from operative position upon transfer movement of the lower transferrer.

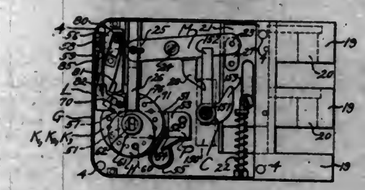
1,752,406. BOAT HULL. PAUL WETCH, Waukegan, Ill. Filed June 11, 1929. Serial No. 370,119. 4 Claims. (Cl. 114—66.5.)



1. A step for boat hulls having a section collapsible toward the hull, and intercepting stop means for said section carried by the hull and arranged outwardly of said section and in the path thereof, said section providing a transverse air and water passage across the bottom of the hull.

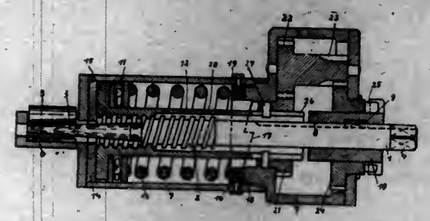
1,752,407. COMBINATION KEY AND DIAL LOCK. JOSEPH ZAPERT, Brooklyn, N. Y. Filed Feb. 19, 1929. Serial No. 341,114. 4 Claims. (Cl. 70—63.)

1. The combination in a lock casing which houses a bolt and a returning spring therefor; of a pivoted rocker arm one end connecting with the bolt and the other end having a dog in operative relation with a series of slotted discs; said series of slotted discs revoluble on shiftable carrier mechanism, the outside disc having a contact pin; said shiftable carrier mechanism for said series of slotted discs and for a dog; said dog pivoted to the shiftable carrier mechanism and having a slotted jaw spaced outside of said outside disc; means operative from the back of the casing to move the shiftable carrier mechanism, dog and series of discs axially; a revoluble operating cam having a turning slot and so positioned as to engage the



dog and having an inside pin in position to engage said outside contact pin or the jaw of the dog according to the position of the shiftable carrier mechanism; and a barrel at the front which is marked with dial numbers, said barrel being turnable only by a key which fits pins inside the casing, and having a turning rod fixed to the barrel and which enters the turning slot in said cam; together with a knob turnable from the back of the lock casing carried by a spindle which extends inside the casing and has a finger so positioned as to move the rocker arm into a substantially dead center position and thereby hold the bolt against the returning spring.

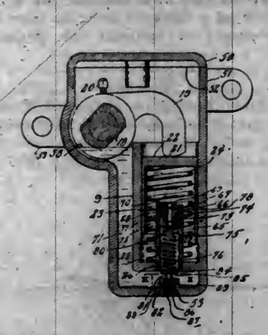
1,752,408. TUBE EXPANDER. OTTO ZEIN, Berlin, Germany. Filed Feb. 10, 1928, Serial No. 253,512, and in Germany June 1, 1927. 7 Claims. (Cl. 153—82.)



1. A tube expander comprising in combination a housing, several rollers mounted radially displaceably, a cage containing said rollers, a conical mandrel being enabled to be drawn between said rollers so as to spread them apart, a spindle bearing at its one end said mandrel and being provided with a thread, a nut guiding said mandrel spindle and mounted rotatably in said housing, a spring producing a counter-pressure on said nut, means for driving said mandrel spindle during the rolling-in feed-motion and during the return motion permanently in the same direction of rotation, and means for imparting to said nut during the rolling-in operation a relative movement with regard to said spindle so as to control the axial displacement of said mandrel during the working stroke.

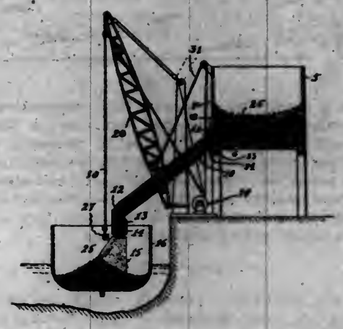
1,752,409. HYDRAULIC REBOUND DEVICE. ERNEST W. ACKERMAN and GRIFFITH C. NICHOLSON, Monroe, Mich., assignors to The Hydro-Check Corporation, Monroe, Mich., a Corporation of Michigan. Filed Jan. 18, 1928. Serial No. 247,591. 8 Claims. (Cl. 267—8.)

7. A rebound take up device comprising a housing having a cylinder therein provided with a head spaced from the housing, a piston in said cylinder movable toward and from said head, there being a port in said head and a



registering opening in the housing, a combined check and relief valve fixed in said head port, and adjusting means in said housing opening for the relief valve.

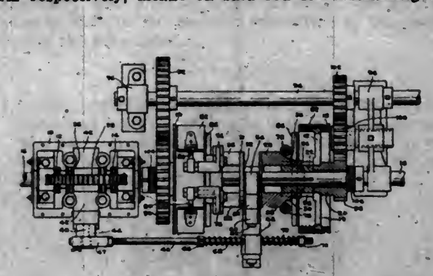
1,752,410. BARGE COAL-LOADING APPARATUS. HENRY ADAMS, Plainfield, N. J., assignor to Adams Coal Machinery Company, Plainfield, N. J., a Corporation of Connecticut. Filed Apr. 6, 1927. Serial No. 181,452. 8 Claims. (Cl. 214—14.)



1. An upwardly tapering trapezoidal loading chute, having thereon a means for connecting the same to a hoisting mechanism, thereby being adapted to be lowered and hoisted, said chute comprising vertical side walls, forming a narrow enclosure which is open at the bottom and one side thereof, and a means for rigidly connecting said side walls to each other.

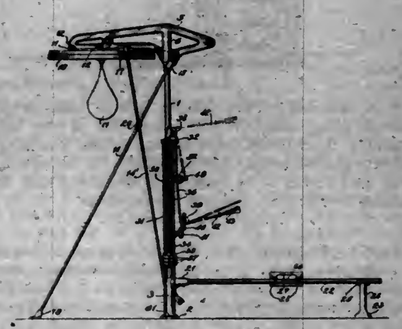
1,752,411. DRIVING MECHANISM FOR MACHINES. GEORGE H. AMONSEN, Minneapolis, Minn. Filed June 9, 1928. Serial No. 284,123. 4 Claims. (Cl. 74—50.)

8. Mechanism of the class described comprising a rotatable shaft, two clutch devices each having a member loose on said shaft and a member fast on said shaft, a counter shaft, driving means between one of said loose members and said counter shaft for rotating the latter in one direction, driving means between the other of said loose members and said counter shaft for rotating the latter in the opposite direction, a transverse shaft connected to and driven by said rotatable shaft, a crank arm secured to said transverse shaft, a rod attached to the outer end of said crank arm, a rock shaft, an arm secured to said rock shaft and through the outer end of which said rod passes slidably, two-coiled springs surrounding said rod and engaging opposite sides of said arm respectively, means on said rod for restraining the



outer ends of said springs, a forked arm secured to said rock shaft, a slidable member on said rotatable shaft interposed between said clutch devices and engaged by said forked arm, and connections between said slidable members and said fast members whereby the latter are connected to said loose members in alternation.

1,752,412. EXERCISING APPARATUS. HARRY BLICKMAN, New York, N. Y., assignor to S. Blickman, Inc., Weehawken, N. J., a Corporation of New York. Filed Jan. 20, 1927. Serial No. 162,259. 5 Claims. (Cl. 272—78.)



4. In home exercising apparatus, a pair of standards, means for supporting the standards in upright spaced position, a bar journaled transversely of the standards, and having its middle in position to be grasped, thereby to turn the bar in wrist development exercises, a pair of grips, and counterpoise mechanism supported by the standards, and having means for detachably engaging the grips or the bar, the bar corrugated intermediate its ends, the corrugations extending annularly of the bar to provide a roughened surface for abdominal and lumbar massage.

1,752,413. SIGNALING CABLE. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1928. Serial No. 296,539. 4 Claims. (Cl. 178—45.)

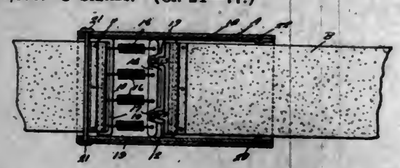
1. The method of reducing losses in the loaded material of a long loaded signal conductor which comprises obtaining the desired inductance at a terminal section where heavy currents are transmitted while, at the same time, reducing the flux density below a value at which large

losses occur by loading the terminal section uniformly, and concentrating the loading of a section more remote



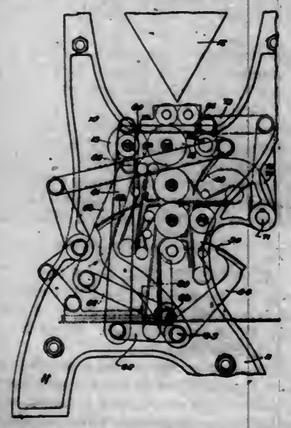
from that terminal and which section transmits relatively small currents at spaced points in said more remote section.

1,752,414. BELT BUCKLE. CLARENCE H. BURNETT, Crothersville, Ind. Filed July 12, 1929. Serial No. 377,891. 3 Claims. (Cl. 24—77.)



1. A belt buckle comprising a pair of transversely extending loops connected with the ends of the belt, an attaching bar, headed studs carried by the attaching bar, coil springs connecting the attaching bar to one of said loops, and socket arms carried by the other loop for detachable connection with said headed studs.

1,752,415. FOLDING MACHINE. SAMUEL J. CAMPBELL, Green Bay, Wis., assignor to Hudson-Sharp Machine Company, a Corporation of Wisconsin. Filed Feb. 6, 1929. Serial No. 337,752. 18 Claims. (Cl. 270—82.)



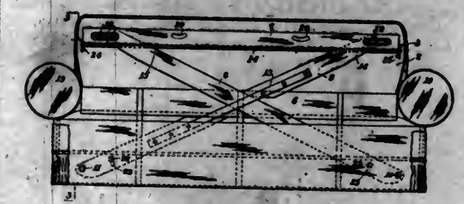
1. In a folding machine, the combination of coacting roller elements, each roller element being constructed in sections, means for driving one set of coacting sections of the respective roller elements at one rate of speed, and means for driving other coacting sections of the respective roller elements at a different speed to cause a turning or skewing movement of material fed through the roller elements.

1,752,416. SKI PEDESTAL FOR AEROPLANES. SILAS A. CHEESMAN, Winnipeg, Manitoba, Canada, assignor to Northern Aerial Minerals Exploration Ltd., Toronto, Ontario, Canada. Filed May 29, 1929. Serial No. 367,058. 8 Claims. (Cl. 244—2.)



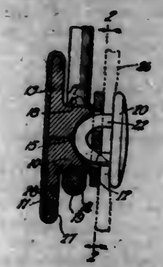
1. A ski pedestal for aeroplanes comprising a metal casing having a flanged base to secure to the ski runner, and elastic means mounted in pedestal for supporting the aeroplane.

1,752,417. CONVERTIBLE BED SETTEE. DIGBY RICHARD NUGENT CHRISTOPHERS, South Kensington, London, England. Filed Oct. 7, 1929, Serial No. 397,974, and in Great Britain Sept. 24, 1928. 5 Claims. (Cl. 5—12.)



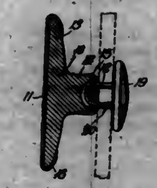
1. In a convertible bed settee, the combination with a seat section, of a back section comprising a supporting frame and upholstery, and means for releasably securing the upholstery to the said frame whereby said upholstery may be moved into superposed position on said seat section, and means whereby said frame may be collapsed to permit the same to be lowered below the upholstery when the latter is superposed on said seat section.

1,752,418. BUTTON. JOHN M. CLARK, Detroit, Mich., and IRA D. FORD, Roseland, Ontario, Canada, assignors to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan. Filed July 20, 1929. Serial No. 379,839. 8 Claims. (Cl. 24—95.)



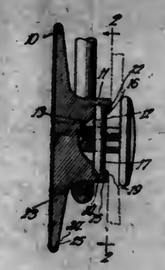
1. A metal button of the character described comprising in combination, a solid metal button body shaped to provide a head and a shank of relatively small diameter having a curved recess in the end thereof, a button base member welded to said shank and perforated to receive a pronged fastener, said recess being constructed and arranged to upset the fastener to secure attachment, said base being relatively large in diameter compared to that of said shank whereby to provide an adequate cloth engaging base and permit the use of a button with a relatively thin shank.

1,752,419. BUTTON. JOHN M. CLARK, Detroit, Mich., and IRA D. FORD, Roseland, Ontario, Canada, assignors to Universal Button Fastening & Button Co., Detroit, Mich., a Corporation of Michigan. Filed Sept. 26, 1927, Serial No. 221,891. Renewed Aug. 16, 1929. 3 Claims. (Cl. 24—95.)



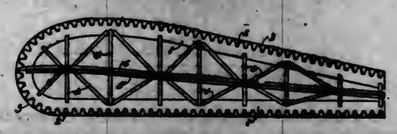
1. A solid metal button for overalls and the like comprising in combination a die formed body having an integral head and solid shank, said head having a superficial covering, the end of said shank having a semi-spherical, open recess formed therein and a transverse wire bar welded in said recess, the inner surface of said recess being curved to provide a die for bending the prongs of a double pronged fastener over said bar.

1,752,420. BUTTON. JOHN M. CLARK, Detroit, Mich., and IRA D. FORD, Roseland, Ontario, Canada, assignors to Universal Button Fastening & Button Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 30, 1929. Serial No. 396,061. 9 Claims. (Cl. 24—94.)



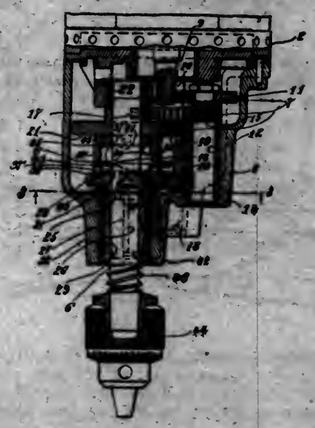
1. A button of the character described comprising in combination, a solid metal body having a head and a shank of relatively small diameter, the latter recessed at its extremity to provide a surface for upsetting an attaching fastener, said recess being shaped with a shoulder, and a fastener engaging element seated against said shoulder.

1,752,421. AEROPLANE-WING CONSTRUCTION. WALTER M. CROSS, Kansas City, Mo. Filed Jan. 12, 1929. Serial No. 332,085. 4 Claims. (Cl. 244—31.)



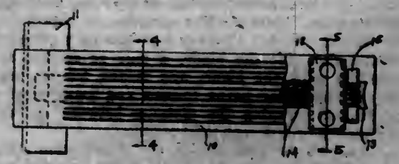
1. An aeroplane wing construction comprising a skeleton frame made up of former members which define the outer contour of the air foil, braces intermediate the former members, and a reinforcement covering, said frame separable through the braces to facilitate the assembly of the frame subsequent to the application of the reinforcement covering, said separable sections of the frame having apertured meeting members adapted to be brought into alignment and rods threaded through the apertures adapted to unite the sections subsequent to the application of the wing covering.

1,752,422. PORTABLE ELECTRIC TAPPER. ALONZO GALLOWAY DECKER, Baltimore County, Md., assignor to The Black & Decker Manufacturing Company, Towson, Md., a Corporation of Maryland. Filed Mar. 15, 1926. Serial No. 94,881. 3 Claims. (Cl. 10—186.)



1. In a portable power driven tapper, a tool casing, a motor therein, a spindle mounted to rotate in the casing, tapping in and tapping out gears mounted to rotate on the spindle and relatively thereto, said gears having clutch members, the spindle being mounted to slide and having a clutch member between the gears, means spacing the gears apart, a means tending to move the spindle to one end of its traverse, bringing the clutch member thereon into cooperative relation with the clutch member on one gear at one end of its traverse, the pressure of the tool against the work serving to return said clutch member, bringing it into engagement with the clutch member on the other gear at the other end of said traverse, and means connecting said motor to said tapping in and tapping out gears comprising a shaft having an elongated bearing in the frame, two pinions on the shaft, one said pinion meshing with one said gear, an idler meshing with the other of said pinions and with the other said gear, a gear for driving said shaft and means driving said latter gear from the motor.

1,752,423. DOORCHECK. FLOYD K. EASTMAN, Kokomo, Ind., assignor to The Concealed Door Check Co., Kokomo, Ind., a Corporation. Filed Sept. 2, 1927. Serial No. 217,089. 3 Claims. (Cl. 16—82.)



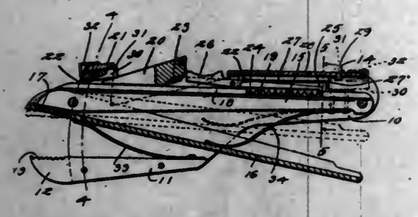
1. A check strap for limiting the opening movement of a door comprising a wire fabric strap formed of a plu-

rality of diagonally disposed wires arranged to permit longitudinal resiliency thereof, a cross head secured at one end thereof, an anchor plate engaging the other end thereof, and a rubber covering therefor adapted to protect said strap while permitting of its longitudinal resiliency.

1,752,424. SEED DISINFECTANT. MAX ENGELMANN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 15, 1927. Serial No. 184,187. 10 Claims. (Cl. 167—38.)

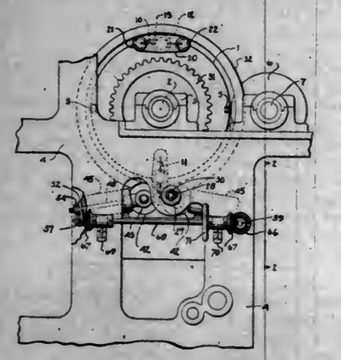
1. A substantially dry seed disinfectant which comprises a mercury compound and a substance which in the presence of water will cause the disinfectant and the seed to readily become wet.

1,752,425. WRENCH. AMOS K. ERSLAND, Manhattan Beach, Calif. Filed Apr. 22, 1929. Serial No. 357,193. 4 Claims. (Cl. 81—78.)



1. A wrench including a pair of pivotally connected jaws, means for adjusting one of the jaws toward and away from the other jaw, a jaw face on said adjustable jaw, and a lever for moving the jaw face independently of the jaw.

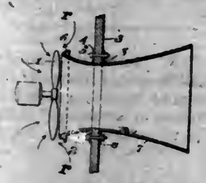
1,752,426. FOLDING MECHANISM. WILLIAM EVENSEN, Chicago, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Filed Mar. 16, 1923. Serial No. 625,577. 19 Claims. (Cl. 270—76.)



11. A printing press folding mechanism including in combination a rotary folding member, a rotary tucker blade carried thereby, a rotary cam having a plurality of actuating slots for the blade, a pair of folding rollers cooperating with the blade, and means for moving the rollers in rectilinear paths toward and away from each other, thereby varying the distance between the rollers to fold papers of different thicknesses.

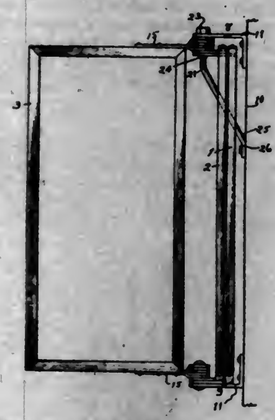
18. In a printing press folder, the combination with the folding cylinder and its blade, of a pair of folding rollers independently mounted, and means for simultaneously adjusting both rollers equal distances in opposite directions.

1,752,427. DEVICE FOR IMPROVING THE AERODYNAMIC EFFICIENCY OF AN EXHAUSTER FAN. ELISHA N. FALES, Dayton, Ohio. Filed June 9, 1923. Serial No. 644,517. 7 Claims. (Cl. 230—120.)



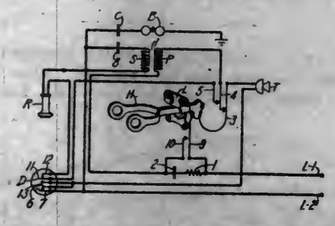
1. In a device of the class described, a rotatable exhauster fan, a member forming a fluid duct disposed with its inlet end adjacent to the fan at its delivery end and being smaller in internal diameter than the external diameter of the fan, and a tapered guiding surface provided on the outside periphery of the duct-forming member surrounding the inlet end.

1,752,428. HINGE. JONATHAN FARVER, Shipshewana, Ind. Filed Dec. 7, 1928. Serial No. 324,856. 2 Claims. (Cl. 16—162.)



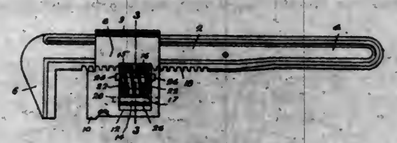
1. In a hinge, the combination of an L shaped hinge bracket, a combined hinge pintle and brace connected with said bracket, and a plurality of hinge arms pivotally connected with the pintle portion of said combined pintle and brace.

1,752,429. TELEPHONE SET. CLARENCE B. FOWLER, Queens Village, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 9, 1928. Serial No. 284,225. 7 Claims. (Cl. 179—81.)



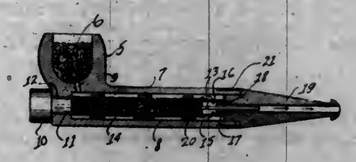
1. In a telephone set, a monitoring latch, an impedance, switchhook contacts for connecting said impedance in series with said set, and additional switchhook contacts responsive to said monitoring latch for shunting said impedance.

1,752,430. WRENCH. CHARLES B. GARTRELL, Kansas City, Mo. Filed Nov. 26, 1928. Serial No. 322,040. 2 Claims. (Cl. 81—158.)



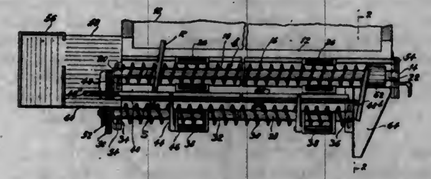
1. A wrench consisting of a threaded portion having a fixed jaw at one end and a handle at its opposite end, a housing slidably mounted upon the threaded portion of the wrench and provided with a jaw and an opening, a nut having external threads for engagement with the threaded portion of the wrench, a shaft extending axially through said nut, a U-shaped member carrying said shaft and operably mounted in the opening in the housing so that it may carry said nut in and out of engagement with the threaded portion of the wrench, said U-shaped member having two resilient arms for frictionally engaging the adjacent sides of the housing opening to hold the nut in engagement with the threaded portion of the wrench, and a member projecting from one of said arms for engaging the housing and checking the movement of the U-shaped member after the same has been adjusted to carry the nut into engagement with the threaded portion of the wrench.

1,752,431. TOBACCO PIPE. SKÚLI GUNNLAUGSSON, Rio Vista, Calif. Filed Sept. 21, 1927. Serial No. 221,029. 2 Claims. (Cl. 131—12.)



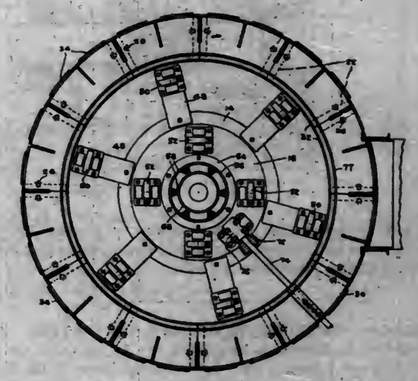
1. A tobacco pipe comprising a bowl, a tubular portion having a chamber formed therein and in communication with the bowl, a centrally bored stem detachably secured to one end of said tubular portion, a plug removably secured in the opposite end of said tubular portion, a wire secured to said plug and extending longitudinally of the tubular portion, an absorbent loosely mounted on said wire and secured at one end to said plug, and a perforated cap mounted on said stem and adapted to contact the free end of said absorbent.

1,752,432. CONVEYER FOR USE WITH FURNACES. WILLIAM M. HEPBURN, Toledo, Ohio, assignor to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Oct. 1, 1928. Serial No. 309,529. 7 Claims. (Cl. 198—218.)



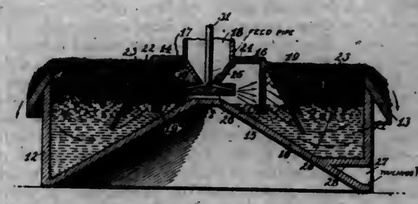
1. In a conveyer, the combination of a longitudinally extending object-supporting member, a shaft alongside of said member in such a plane that an elongated object may be disposed crosswise of the shaft and member for support, a second shaft alongside of said member in such a plane that the adjacent end of the object may abut the shaft below the top thereof whereby to prevent longitudinal displacement of said object in one direction, and a spiral guideway on each of said shafts adapted to shift said object axially of the shafts as the latter are rotated.

1,752,433. ROTARY FORGING FURNACE. RICHARD M. HORTVET, Minneapolis, Minn., assignor to Mahr Manufacturing Company, Minneapolis, Minn., a Corporation. Filed June 15, 1928. Serial No. 285,687. 3 Claims. (Cl. 263—7.)



1. In a rotary forging furnace, the combination of a foundation, a circular series of castings mounted around said foundation in spaced relation to each other, a furnace wall supported by said castings, a turntable within said wall, operating mechanism for said turntable underneath the latter, and sealing means between the interior of the furnace and said operating mechanism.

1,752,434. FLOTATION MACHINE. ALBERT L. HOWARD, Hollis, Territory of Alaska. Filed May 18, 1927. Serial No. 191,245. 8 Claims. (Cl. 261—123.)

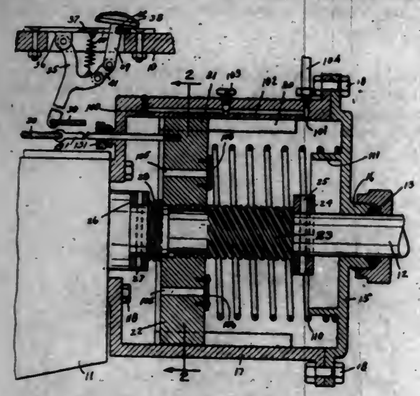


1. A flotation machine comprising a cell, a rotatable head having a plurality of radial passages disposed in the cell above the level of the liquid in the cell, means for supplying pulp to the head, a cup-shaped member embracing the head and provided with a plurality of openings adjacent the radial passages in the head for directing the pulp into the cell.

1,752,435. BACKING STOP FOR VEHICLES. EDWARD S. HUTTON, Miami, Fla. Filed Mar. 11, 1929. Serial No. 346,175. 7 Claims. (Cl. 188—30.)

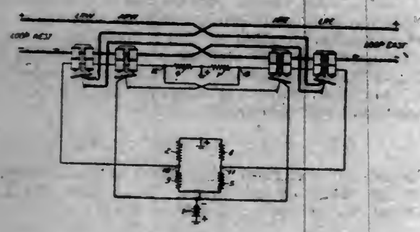
1. Means for stopping the backward movement of a motor vehicle having a drive shaft, including a threaded portion on the drive shaft, a fluid-tight housing surround-

ing the same, a nut associated with the housing and the threaded portion of the shaft and constituting a piston



in said housing, and yielding means interposed between the housing and the nut normally resisting threading movement between the nut and shaft.

1,752,436. TELEGRAPH REPEATING SYSTEM. FULLERTON S. KINKEAD, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1928. Serial No. 292,701. 3 Claims. (Cl. 178—71.)



1. A telegraph repeater for repeating between two closed, non-polar telegraph circuits each containing a source of current, comprising a first and a second polar relay means, each having a first and a second independent actuating winding and a first and a second pair of contacts, the first winding of said first means being connected through the first set of contacts on said second means to one line section and the first windings of said second means being connected through the first set of contacts on said first means to the other line section, means comprising a single source of electromotive force of constant polarity, a first resistor, and the second pair of contacts on one of said relay means, for supplying a current to the second winding on the other relay means opposite in effect to the normal line current in the first winding of said other relay means, and means comprising said source of electromotive force, a second and a third resistor for supplying a current to the second winding in the same sense as the normal line current, independently of the second pair of contacts on the other relay.

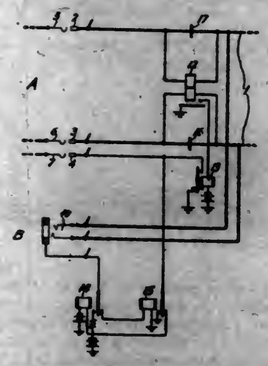
1,752,437. BRAIDING MACHINE. RAY CHARLES KIVLEY, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 27, 1927. Serial No. 208,673. 5 Claims. (Cl. 96—5.)

1. In a braiding machine, a plurality of sets of strand supplies rotating in opposite directions about a common axis, and a plurality of stationary U-shaped and inverted U-shaped members arranged in series about said axis for deflecting the supply strands of one of the sets in and out around the strand supplies of another set.



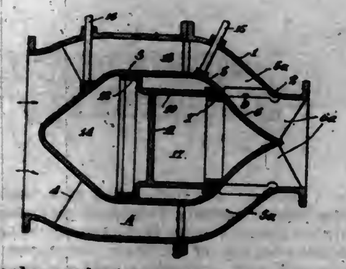
3. In a braiding machine, a plurality of strand supplies rotating in opposite directions about a common axis, means for shifting the strands of the supplies rotating in one direction in and out around the strand supplies rotating in the opposite direction, and an arcuate member associated with each of the shifted supply strands for maintaining a uniform tension therein.

1,752,438. TELEPHONE SYSTEM. FRANKLIN A. KORN, Elizabeth, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 29, 1929. Serial No. 350,887. 6 Claims. (Cl. 179—27.)



1. In a telephone system, a switch, an operator's position, a trunk, and means responsive to the passage of current over said trunk for establishing and maintaining a busy condition at the operator's position and a holding circuit for the switch regardless of subsequent changes of current over said trunk.

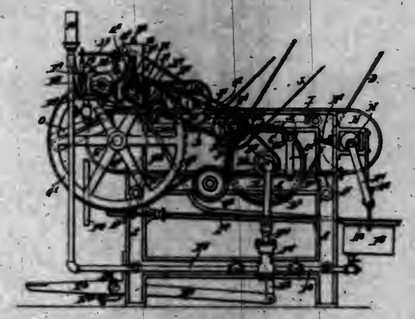
1,752,439. SLEEVE VALVE. CHESTER W. LARNER, Philadelphia, Pa., assignor to I. P. Morris and De La Vergne, Inc., a Corporation of Delaware. Filed Oct. 14, 1926. Serial No. 141,452. 11 Claims. (Cl. 137—139.)



1. A valve mechanism comprising inner and outer casings spaced to form a relatively smooth fluid passage-

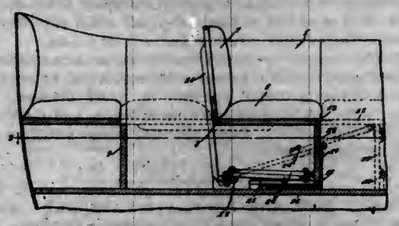
way therebetween, said outer casing having a seat formed thereon, a sleeve disposed within the interior casing and having a closed partition and an open downstream end and means for effecting movement of said sleeve including the operating element movabel therewith.

1,752,440. APPARATUS FOR SEASONING SKINS. HARRY B. LAYTON, Wilmington, Del., assignor to G. W. Baker Machine Company, Wilmington, Del., a Corporation of Delaware. Filed July 28, 1927. Serial No. 208,913. 2 Claims. (Cl. 91—40.)



1. A seasoning machine having in combination an endless bolster adapted to support and transport a hide during the seasoning operation, drums over which the bolster extends, reversible means for driving one of the drums in opposite directions, a brush for applying seasoning compounds located above and near the feed end of the bolster, means for rotating said brush in the direction in which skins are fed to the machine and means for feeding seasoning to the brush.

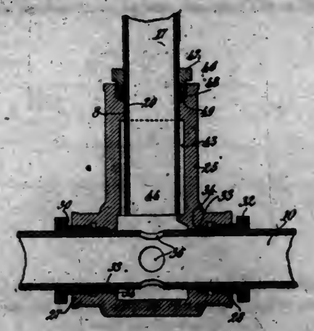
1,752,441. CONVERTIBLE AUTO SEAT. FRANK N. LEE, Dupont, Ga. Filed Aug. 6, 1928. Serial No. 297,719. 1 Claim. (Cl. 155—7.)



A vehicle seat comprising a seat section, a back section pivotally connected to the seat section, a front section pivotally connected to the seat section, bars secured to the back section and extending downwardly below the back section, a horizontal bar connecting the downwardly extended bars, pivoted leg members secured to the front section, a rod connecting the leg members, links connecting the horizontal bar and rod to move the leg members and back section simultaneously, and said leg members adapted to support the front section in a horizontal position.

1,752,442. FITTINGS AND PIPE SYSTEM FOR SOOT CLEANERS. FREDERICK W. LINAKER and THEODORE M. BRUBACK, Du Bois, Pa. Filed Jan. 22, 1923. Serial No. 614,177. 6 Claims. (Cl. 122—392.)

1. A soot cleaner system for boilers, comprising a main header pipe, branch pipes leading therefrom and pipes forming cleaner elements communicating with said branch pipes and entering the interior of the boiler setting, said system having threaded connections forming the junction of the header pipe and branch pipes, at least one of said



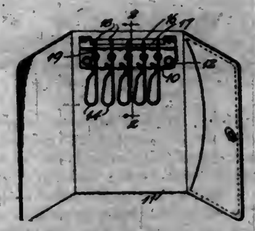
connections comprising a branch portion adjustably engaging an elongated threaded end portion of the branch pipe.

1,752,443. STEEL LAY BRACE. CARL J. LINDGREN, Providence, R. I., assignor to Crompton & Knowles Loom Works Worcester, Mass., a Corporation of Massachusetts. Filed May 3, 1929. Serial No. 360,190. 8 Claims. (Cl. 139—188.)



1. In a loom lay having a beam and swords, and operating with a picker stick, a lay end formed of sheet metal and having parallel spaced ribs extending perpendicularly from the body of the lay end to define a picker slot, and elongated guides pressed out of the plane of the body portion of the lay end and extending farther from the lay end body than do the ribs to prevent engagement between the ribs and the picker stick, the guides stiffening the lay end.

1,752,444. KEY CASE. CHARLES LORBER, Bloomfield, N. J. Filed Sept. 7, 1928. Serial No. 304,555. 7 Claims. (Cl. 150—40.)

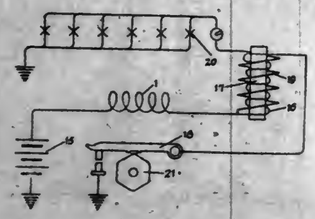


1. In combination, a key plate having a transverse slot therein, swivel rings each having a portion passing through the slot to secure the ring to the plate and being slidable along said slot, and key hooks each carried by a respective ring.

1,752,445. CURRENT CONTROLLER FOR ENGINE-IGNITION SYSTEMS. MARION MALLORY, Toledo, Ohio. Filed May 18, 1929. Serial No. 364,142. 4 Claims. (Cl. 123—148.)

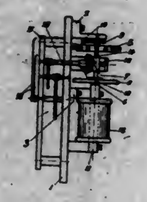
1. In an ignition system for internal combustion engines, a primary circuit and a secondary circuit, a circuit closer

connected to the ignition system, a resistance element, whose resistance increases as its temperature is increased, connected in the primary circuit, and means operated by



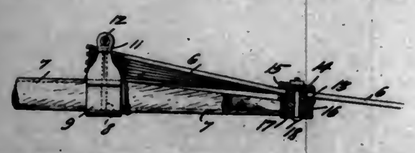
the engine for directing a fluid against the resistance element to vary the resistance of the resistance element.

1,752,446. ELECTROMAGNETIC IMPULSE TIMEPIECE. FRITZ MARTI, La Chaux-de-Fonds, Switzerland. Filed Nov. 26, 1927. Serial No. 235,927. 2 Claims. (Cl. 58—28.)



1. An electro-magnetic impulse time-piece comprising an escapement wheel actuating the movement, and a rotative arbor on which are mounted a balance, an electro-magnetic impulse flange acted upon by an electro-magnet and impulse pallets to actuate said escapement wheel, the escapement wheel and the impulse pallets being connected in circuit with the electro-magnet so that the circuit is made and broken between the impulse pallets and the escapement-wheel.

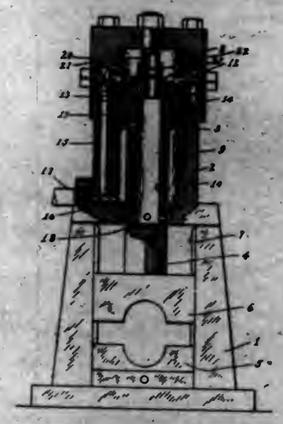
1,752,447. RAKE. GEORGE HENRY MAUS, Amsterdam, N. Y. Filed Feb. 17, 1928. Serial No. 255,089. 1 Claim. (Cl. 55—10.)



A rake comprising strips of material arranged in superimposed relation to one another at their inner ends and diverging therefrom to their outer ends, the said strips being provided with teeth at the said outer ends, a handle with relation to which the superimposed ends of the strips are assembled, a clamp embracing the handle and the superimposed strips at the inner ends of said strips, the ends of the clamp extending beyond the said assembled elements, and a member extending through the said ends and adapted to exert force on said ends, tending to draw them together to bind the clamp against the handle and the strips.

1,752,448. PNEUMATIC HAMMER. JOHN THOMAS MCGRATH, Bloomington, Ill. Filed Mar. 5, 1929. Serial No. 344,155. 3 Claims. (Cl. 121—130.)

1. In a pneumatic hammer comprising a closed cylinder, a piston mounted for reciprocation therein, a piston rod thereon passing through one end of the cylinder, a central cavity formed in said piston and piston rod opening through said piston into the cylinder thereabove and having a port in said piston rod adapted to exhaust into the atmosphere as the piston rod approaches the outward limit of its stroke, normally closed automatic air inlet valves between the open side of the piston and adjacent end of the cylinder adapted to be opened by the piston approaching that end of the cylinder in its upward stroke and an air port

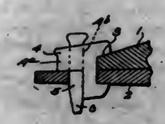


opening into the cylinder on the other side of the piston adjacent that end of the cylinder, and means connecting said air inlet and air port to a source of air under pressure, the combination with an automatic exhaust valve between the piston cavity and the adjacent end of the piston, including a stationary hollow member entering the piston cavity and a sleeve mounted to reciprocate thereon with the piston.

1,752,449. MANUFACTURE OF BITUMINOUS EMULSIONS. JOHN STROTHER MILLER, Jr., Rahway, N. J., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed July 17, 1920. Serial No. 397,027. 10 Claims. (Cl. 134—1.)

1. The process of preparing an aqueous emulsion of natural solid bituminous base self-emulsifying by reason of native impurity which consists in finely grinding such base, in its solid native state, with water and continuing the grinding until a water external phase emulsive combination is effected.

1,752,450. RAIL AND TIE PLATE FASTENER. GEORGE W. MULLER, Washington, D. C., assignor to Muller Railway Track Systems, Incorporated, Wilmington, Del., a Corporation of Delaware. Filed May 29, 1928. Serial No. 281,568. 10 Claims. (Cl. 238—352.)



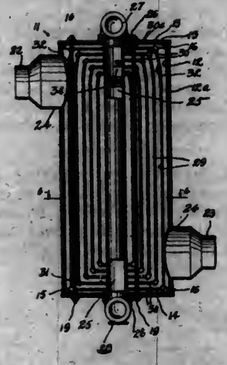
1. In a rail and tie plate fastener, the combination with a tie and tie plate, of a rail on the tie plate, holding keys engaging the flange of the rail and the tie plate, and spike pins passing through the tie plate, said spike pins including means to prevent their withdrawal from the tie plate, the said pins and the said holding keys having correspondingly curved surfaces in contact whereby the pins secure the keys.

1,752,451. BASE PLATE FOR RAILROAD-TRACK STRUCTURES. GEORGE W. MULLER, Washington, D. C. Filed Aug. 20, 1928. Serial No. 300,807. 3 Claims. (Cl. 238—304.)



1. A base plate of the character described adapted to be secured upon a series of succeeding cross ties and having spaced upstanding portions near the edges of the plate, the surface between the said up-standing portions being canted and concave and extending longitudinally.

1,752,452. ECONOMIZER. JOHN R. NASON, Auburn, Me. Filed May 28, 1928. Serial No. 281,109. 9 Claims. (Cl. 257—224.)



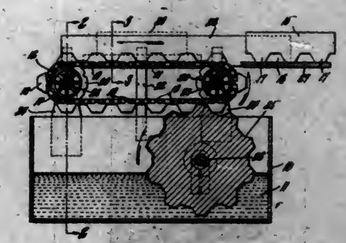
1. A device of the character described, including a chamber through which hot flue gas is adapted to pass, a main water tube of comparatively large diameter extending through said chamber, a series of circulatory tubes of relatively small diameter communicating at their ends with the main tube, and means to restrict the flow of water through the main tube between the points of communication aforesaid, the circulatory tubes being disposed in angularly spaced relation and in spaced concentric circles, the outer tubes being longer than the inner tubes enclosing the same.

1,752,453. COAL-LOADING DEVICE. JAMES A. O'NEIL, Hanna, Wyo. Filed Nov. 16, 1928. Serial No. 319,877. 1 Claim. (Cl. 74—14.)



A device for changing uniform rotary motion into variable reciprocating motion which comprises, in combination, a housing having two opposed sides, a shaft extending transversely through the housing near one end thereof, said shaft being mounted for rotation about its axis, a gear carried by the shaft, the housing being provided with opposed parallel slots (40) a bearing slidably mounted in each slot, a shaft rotatably mounted in the bearings, a gear wheel nonrotatably mounted on the shaft in eccentric relation therewith, said gear having a concentric hub on each side, the diameter of said hubs being greater than twice the distance from the center of the gear wheel to the center of the shaft about which it rotates, plus the diameter of the shaft, a link connecting each hub with the first mentioned shaft for holding the two gears in mesh, and a crank secured to the outer end of the second shaft.

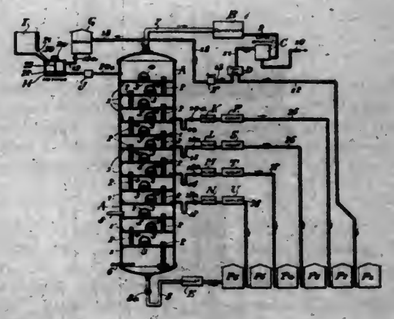
1,752,454. METHOD OF AND MACHINE FOR EDGE COATING ROOFING ELEMENTS. FREDERICK C. OVERBURY, Hillsdale, N. J., assignor to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 20, 1926. Serial No. 155,820. 10 Claims. (Cl. 91—68.)



1. The method of coating the butt edges of a roofing element, which comprises forming a layer of coating material on a surface complemental to said edges, moving the element in the direction of its length and applying the coated surface to the edges while the element is thus in motion.

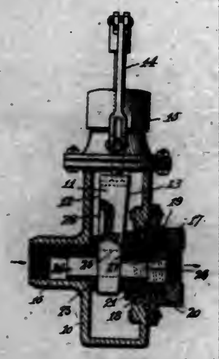
10. Apparatus for coating edges of roofing strips comprising means for moving roofing strips in the direction of their length when presented thereto, said means including a flexible endless member having a surface complemental to the edges to be coated, and means for covering said surface with a film of coating material prior to its engagement with strip edges, whereby coating material is applied to said edges as the strips are moved along in contact therewith.

1,752,455. REFINING SYSTEM. ALBERT G. PETERKIN, Jr., Bryn Mawr, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1926. Serial No. 100,477. 5 Claims. (Cl. 196—96.)



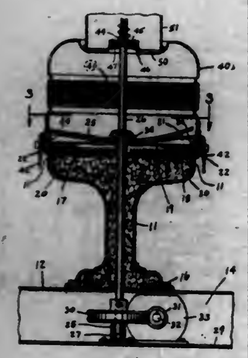
2. A method for simultaneously fractionating and purifying the vapors of hydrocarbon oil, which comprises passing the vapors upwardly in contact and interchange relation with descending liquid reflux oil, removing liquid fractions of the oil from the fractionating zone, suspending a solid purifying agent in at least a portion of a fraction so removed, and passing the oil containing the suspended material in fractionating relation with at least a portion of the ascending vapors.

1,752,456. GATE VALVE. CHRISTOPHER A. PILLATT, Joliet, Ill. Filed Apr. 1, 1929. Serial No. 351,765. 3 Claims. (Cl. 251—60.)



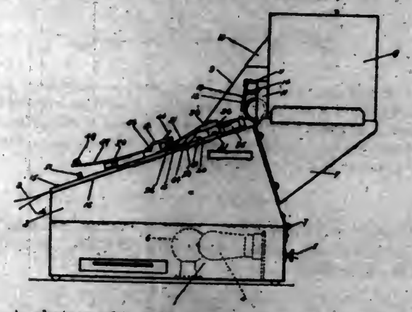
1. In a gate-valve structure, a casing having an inlet at one side and an outlet at the other side, a gate lying within the casing and connected with means for raising and lowering it, said gate having a straight working-face and also an inclined face at the outlet side, this gate being provided with a water-passage and also a sediment-pocket formed in the working-face, a valve-seat arranged around the inlet-nipple, and a spring-actuated thrust-block or ring arranged to have its entire bearing-face press against the inclined face of the gate at the outlet side in its open as well as its closed position.

1,752,457. POP-CORN MACHINE. JAMES H. REICHART, Muncie, Ind. Filed Sept. 15, 1928. Serial No. 306,175. 12 Claims. (Cl. 53—4.)



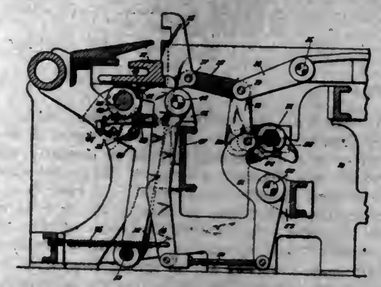
1. A corn popping machine including a support provided with a heater element, and a popping plate thereon with a marginal downwardly extending flange overlapping and extending beyond said support so that material discharged over the margin of the popper plate will not come in contact with the said support.

1,752,458. PHOTOGRAPHIC PRINTER. JOHN J. RISDON, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Sept. 20, 1927. Serial No. 220,788. 7 Claims. (Cl. 95—75.)



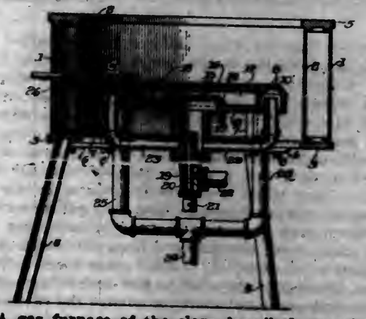
1. A photographic printer comprising a printing light and exposure station, means for moving a negative strip and a positive strip to position over said station, said means including separate shifters for so moving each of said strips, and said shifters being adjustably secured together for simultaneously moving said strips.

1,752,459. LAY-DRIVING MECHANISM FOR LOOMS. WILLIAM W. ROBERTSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 15, 1928. Serial No. 261,992. 10 Claims. (Cl. 139—190.)



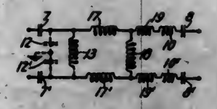
1. In a loom, a lay, means to move the end portions of said lay positively forward to beat up the cloth, and simultaneously acting means to move the middle portion of said lay positively forward, said latter means being operative only at the beat up.

1,752,460. GAS FURNACE. CHARLES E. SCHULTZ, Chicago, Ill. Filed July 15, 1927. Serial No. 205,910. 5 Claims. (Cl. 158—108.)



3. A gas furnace of the class described comprising, in combination, a combustion chamber, means including a pair of substantially flat plates vertically spaced apart to form a circular and relatively shallow mixing chamber, the upper one of said plates having a plurality of discharge ports communicating with said combustion chamber, the lower one of said plates having a central opening therein, a discharge head fitting into said opening and projecting into said mixing chamber, said head having a series of spirally disposed jet orifices discharging laterally into said mixing chamber, said head further providing below said lower plate a preliminary mixing chamber, an outer circuitous air chamber disposed within the combustion chamber adapted for connection on the one hand with a source of air under pressure and on the other hand with said preliminary mixing chamber, and means connected with a source of fuel gas under pressure for discharging the same into said preliminary mixing chamber.

1,752,461. TRANSMISSION NETWORK. TIMOTHY E. SHEA, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 24, 1925. Serial No. 45,792. 2 Claims. (Cl. 178—44.)



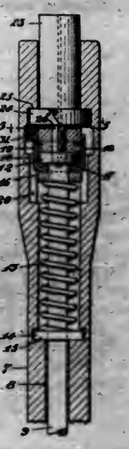
1. In a wave filter adapted to transmit selectively a pre-assigned broad band of frequencies, a condenser included in a series branch of the filter and having stray capacity in shunt to the filter, and a star connected group of inductances adjacent to said condenser, said inductances being proportioned with respect to the capacity of said condenser and to the pre-assigned range of frequencies to maintain the desired selective transmission characteristics, and being proportioned also with respect to said stray capacity to provide a substantially neutralising reactance therefor throughout the preassigned frequency range.

1,752,462. NONTARNISHING METALLIC INK. WALTER F. SMITH, Kingsport, Tenn., assignor, by mesne assignments, to Kingsport Press, Inc., a Corporation of Delaware. Filed Nov. 16, 1927. Serial No. 233,746. 6 Claims. (Cl. 134—35.)

1. An ink having a metallic pigment coated with nitrocellulose (pyroxylin) and a vehicle therefor comprising a resinous substance and terpineol as a solvent for the resinous substance.

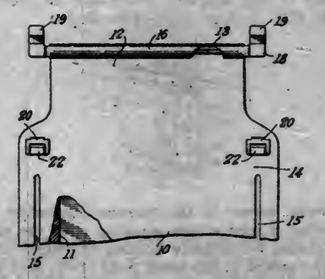
1,752,463. LEVER LOCK. FRANK E. SMYTHE and ALBERT Q. SMYTHE, San Diego, Calif., assignors of one-half to Andy Atleson and May Atleson, Los Angeles, Calif. Filed Sept. 7, 1927. Serial No. 218,002. 4 Claims. (Cl. 70—132.)

1. In a lever lock, the combination of a lever, a push rod carried by said lever, a spring normally maintaining the push rod in a retracted position, means operable by said push rod when in its retracted position to hold the lever against movement in at least one direction, a turnable push button operable on being depressed to effect advance of said rod in opposition to said spring, said push button being formed with a key-receiving slot, and key controlled mechanism interposed between said push button and push rod operable to prevent actuation of the push



rod through said push button, and adapted to be turned by a key inserted through the push button to permit actuation of the push rod through said push button.

1,752,464. WATERPROOF-CLOSURE FASTENER. HARRY C. SPECTER, New York, N. Y. Filed Oct. 19, 1928. Serial No. 313,421. 2 Claims. (Cl. 150—8.)

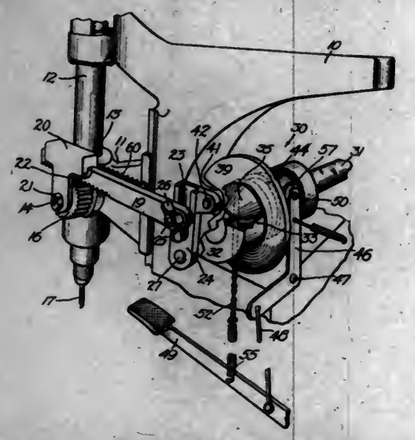


1. The combination with a bag having flexible walls, an extending neck and sides, and a split tube in which the neck is engaged and on which it may be rolled, of looped clips fixed on the bag sides, and means at the ends of said tube to engage said clips.

1,752,465. FEEDING DEVICE FOR DRILLING MACHINE SPINDLES. FRANK CALVIN SPENCER, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 27, 1925. Serial No. 39,900. 2 Claims. (Cl. 77—33.)

1. The combination with a drill press including a drill spindle, of means for imparting vertical movement to the spindle comprising a clutch mechanism including driving and driven members, one of said members having an external slot therein, resilient means for maintaining the driving and driven members normally separated, manual means for engaging said members, a cam associated with and operated by the clutch mechanism, a rack reciprocated by the cam to impart a longitudinal motion to the drill spindle, means to disconnect the manual means after the drill spindle has been moved a predetermined distance,

means to adjust said last mentioned means to vary the predetermined distance, a member wound in the slot by the rotation of the clutch mechanism and a spring attached to the last mentioned member for storing energy



during the winding operation to co-operate with the resilient means for returning the clutch members and all associated mechanism to their starting position upon the operation of the disconnecting means.

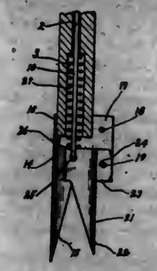
1,752,466. ROLLER SCREEN. WILLIAM E. STEVENS and CHARLES B. JAY, Raymond, Wash.; said Stevens assignor to Ray Stayles. Filed Apr. 21, 1927. Serial No. 185,437. 1 Claim. (Cl. 156—39.)



In a roller screen of the character described having a spring roller, a wire screen mounted upon the said roller, suitable guides for slidably holding the edges of the said screen, and means at the lower ends of the said guides for holding the said screen downward; a spring roller tensioning device comprising a casing having a slot in one end extending downward from the upper side, said slot having an enlarged notch about midway thereof, a movable cover plate with a vertical slot extending downward to the lower edge thereof at the end of the said casing forming an inclosure for the slot in the end of the casing, said slot in the movable plate also having an enlarged notch therein, and a handle extending from the end of said roller through the slots in the end of the casing and movable plate.

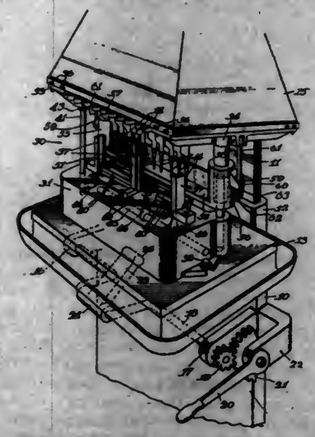
1,752,467. GARDEN IMPLEMENT. THOMAS C. STRAWN, Salem, Ohio. Filed Oct. 3, 1927. Serial No. 223,525. 2 Claims. (Cl. 55—68.)

1. A garden implement comprising a tubular staff, a member formed of sheet metal providing a scoop-like jaw at its lower end, and an integral split collar with parallel flanges at its upper end, said flanges having aligned bolt holes, a plurality of bolts engaged through said flanges for clamping said collar about the lower end of said staff, a movable jaw member having a scoop-like shape at its lower end and having a flattened extension at its upper end received freely between said flanges and pivotally mounted on the lower of said bolts, a coil spring abutting the lower end of said staff and the upper portion of said movable jaw, and normally pressing said movable jaw outwardly, and an operating rod within said staff and



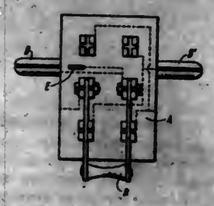
passing through said spring and engaging directly with the flattened portion of said movable jaw opposite the pivot end thereof.

1,752,468. WORK-FEEDING DEVICE FOR DRILLING MACHINES. JOHN STANLEY STULL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1925. Serial No. 51,763. 9 Claims. (Cl. 77—63.)



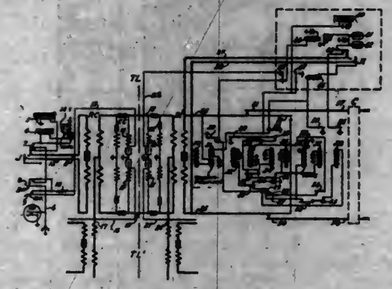
1. The combination with a drill press comprising a drill, operating means for the drill, a work table, means for positioning work on the table, a yielding member for engaging work in the working position, a pin for supporting said member, and a cam member engaging the pin for adjusting the position of the pin to accommodate different sizes of material to be worked.

1,752,469. CONNECTION BLOCK. JOHN WILLIAM TENNANT, Middlesex, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Mar. 16, 1925, Serial No. 15,734, and in Great Britain Mar. 21, 1924. 7 Claims. (Cl. 200—51.)



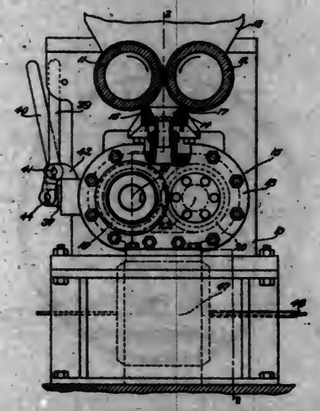
1. A connection block for use with coils of the plug-in type comprising an insulating base, a plurality of contacts on said base including a pair of plugs and a pair of sockets for connecting two coils in circuit with each other, a double-pole double-throw switch on said base, and electrical connections between said switch and said contacts for reversing the connections of one of said coils, and an additional contact on said base whereby the connections between the first mentioned contacts may be short-circuited.

1,752,470. TELEPHONE SYSTEM. VICTOR S. THARP, Elmhurst, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed July 9, 1928. Serial No. 291,176. 11 Claims. (Cl. 179—27.)



1. In a telephone system wherein two-way manual to manual telephone connections are established over a two-way trunk line comprising only two conductors connecting a first and a second exchange, a control circuit including only one of said conductors, and means controlled over said control circuit whereupon operators at said exchanges can call each other in initiating the manual to manual telephone connections and can signal each other on answering and disconnecting on such calls.

1,752,471. EXTRUSION MACHINE. BRUNO MAX ALFRED TREBES, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 24, 1924. Serial No. 715,650. 10 Claims. (Cl. 18—12.)



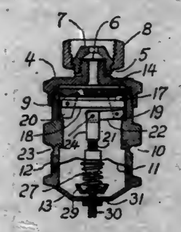
7. In an extrusion machine, an extruding head, and a gear pump for forcing plastic material therethrough, comprising a casing, a pair of gears rotatably mounted therein, meshing with each other, the gears being composed of a plurality of laminations, means for selectively engaging or disengaging the laminations with or from each other, means for locking the disengaged laminations, and means for rotating the gears.

1,752,472. SUPPORTING BAR. KARL H. WHITNEY, Kirksville, Mo., assignor to Whitmanis Manufacturing Company, Kirksville, Mo., a Corporation of Missouri. Filed Mar. 3, 1928. Serial No. 260,153. 4 Claims. (Cl. 211—128.)



3. A supporting bar comprising a first bar section having a shoe member at one end thereof, a second bar section having a shoe member at one end thereof, a telescopic joint intermediate of said shoe members, an actuating lever located intermediate of the side walls of one of said telescopic joint members and pivotally supported upon a pivot pin mounted transversely of said telescopic joint and supported at opposite ends in the side walls of one member of said telescopic joint, said actuating lever serving to engage the opposite telescopic joint member and forcibly adjust said telescopic joint members endwise thereof to cause said shoes to be engaged with and disengaged from supporting abutments.

1,752,473. REDUCING VALVE. AUGUSTUS L. ANDERSON, Brooklyn, N. Y., assignor to Presto Primer and Reducing Valve Corporation, a Corporation of Delaware. Continuation of abandoned application Serial No. 112,890, filed June 1, 1926. This application filed June 24, 1927. Serial No. 201,211. 5 Claims. (Cl. 50—26.)



1. A reducing valve comprising a cylindrical casing and screw caps at opposite ends of the casing, a diaphragm extending across said casing and secured in position by one of said caps, a disk secured in position by the other cap and forming the interior of the casing into two chambers, said disk having an opening forming an inlet nozzle extending from one chamber to the other; a closure for said nozzle, levers mounted on said disk for operating said closure and a detachable connection between said levers and diaphragm.

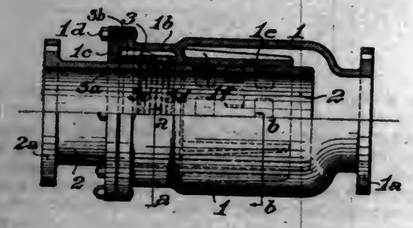
1,752,474. METHOD OF TREATING METALS. CARTER HENRY ANDERSON, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1927. Serial No. 180,066. 12 Claims. (Cl. 22—200.)

1. A method of treating metals, which consists in melting a metal in the presence of a reducing material, allowing the metal to solidify, and remelting the metal in the presence of a non-reducing material.

1,752,475. STEAM-PIPE EXPANSION JOINT. GEORGE B. ASHWORTH, Amsterdam, N. Y. Filed Jan. 14, 1928. Serial No. 246,727. 1 Claim. (Cl. 285—163.)

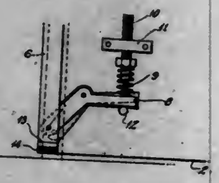
A steam pipe expansion joint comprising an outer section having a stuffing-box, and an inner, perforated bear-

ing sleeve of annular cross section, integrally joined at one end only to the wall of the section, and spaced therefrom to form a steam chamber; an inner tubular portion passing through the stuffing box and slidably engaging the bearing sleeve, said sleeve being of substantial length



to afford a support for the tubular portion; packing means in the stuffing box; means for adjusting the packing to take up wear thereof and means for joining the outer section and the tubular portion respectively to adjacent pipes.

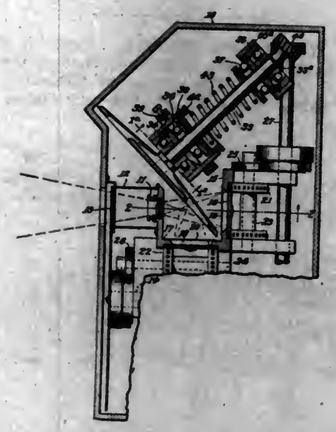
1,752,476. SAFETY DEVICE FOR ELEVATOR CAGE AND SHAFT DOORS. FRANZ A. BONDTCHER, Bergenfield, N. J., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed Feb. 15, 1928. Serial No. 254,335. 4 Claims. (Cl. 268—55.)



1. In an assembly of the character described, a door, an actuating bar extending vertically along the free edge of the door, a link connection between the door and the bar to provide for relative movement between the bar and door, means for normally maintaining the links of such connection in inclined relation, and a braking device associated with one end of the bar, whereby, when the door moves into a position to strike an obstruction in its path, the bar will be engaged and swung on its link connection to partake of vertical movement for the purpose of bringing the braking device into engagement with a suitable stationary part to brake the door against further closing movement.

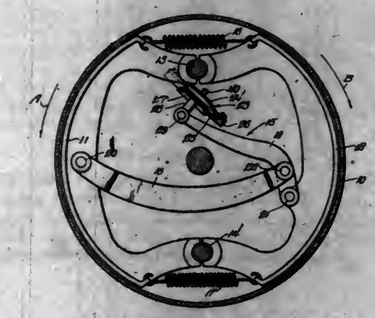
1,752,477. CAMERA FOR COLOR CINEMATOGRAPHY. PERCY D. BREWSTER, Newark, N. J. Filed Mar. 14, 1921, Serial No. 452,160. Renewed Oct. 27, 1928. 9 Claims. (Cl. 88—16.4.)

1. In a color camera, the combination with a lens, a film-gate in rear of the lens to support a negative film in position for exposure, a plane mirror extending between the lens and said film-gate and occupying a plane at an angle to the axis of the lens, said mirror having at least one light-passing opening, means for revolving the mirror in its own plane, a film-gate arranged to support a negative film in position to receive light reflected by the mirror, means for feeding films through the film-gates simultaneously step-by-step, a shutter for exposing both



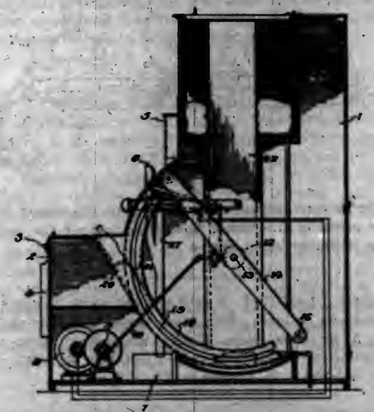
films at each period of rest thereof, and means for actuating the mirror, the shutter, and the film-feeding means in harmony with each other.

1,752,478. BRAKE CONSTRUCTION. ADIEL Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1924. Serial No. 697,982. 16 Claims. (Cl. 188—78.)



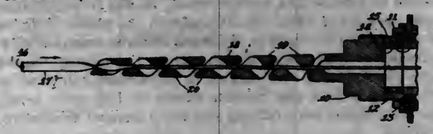
1. A brake comprising, in combination, a drum, a plurality of shoes engageable with the drum and individually shiftable to anchor at opposite ends according to the direction of rotation of the drum, and means acting on the shoes and bodily movable to exert a balanced spreading pressure on the shoes to apply the brake.

1,752,479. BOTTLED-BEVERAGE-VENDING MACHINE. HERBERT F. DOTSON, San Antonio, Tex. Filed Sept. 8, 1927. Serial No. 218,164. 5 Claims. (Cl. 312—36.)



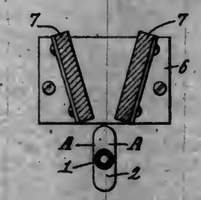
1. In a vending machine, a curved way slotted in its outer side, and an ejector pivoted concentric with the way and having a laterally extending element adapted to pass through the slotted side of the curved way to engage an article deposited in the way and travel from end to end of the way for delivering the engaged article therefrom.

1,752,480. MECHANISM FOR WORKING PULPOUS MATERIAL. JOSEPH WILLIAM FAY, Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 6, 1925, Serial No. 41,605. Renewed Jan. 17, 1929. 9 Claims. (Cl. 92—41.)



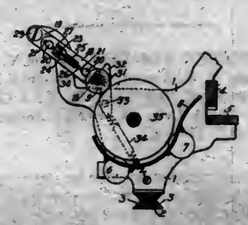
9. In a mechanism for working pulpous material on a moving core, a forming member having pulp engaging portions designed to direct the core through a tortuous path.

1,752,481. METHOD OF MAKING FLAT BOTTLES. CHARLES B. GARWOOD, Linthicum Heights, Md., assignor to Carr Lowrey Glass Co., Baltimore, Md. Filed Nov. 20, 1928. Serial No. 320,641. 4 Claims. (Cl. 49—79.)



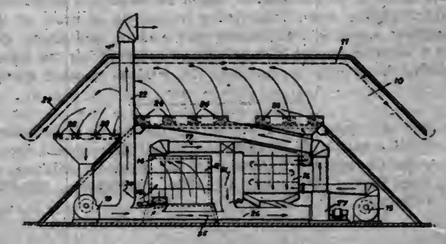
4. The herein described method of producing glass bottles having flat faces free from specks and liver spots which includes the steps of rotating a partially blown gather within a trough-shaped marver to impart a substantially cylindrical form to the gather, thereafter impressing opposed portions of the gather upon carbon surfaces to produce flat faces, and subsequently placing the flattened partially blown gather in a mold with the flat faces out of contact with the mold.

1,752,482. TYPEWRITING MACHINE. GEORGE G. GOING, Middletown, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Original application filed May 2, 1927, Serial No. 188,243. Divided and this application filed Dec. 17, 1927. Serial No. 240,734. 8 Claims. (Cl. 197—138.)



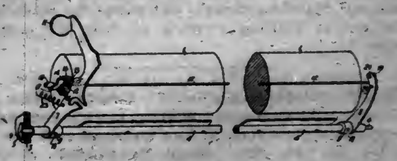
1. The combination of a carriage, a platen carried thereby, a pair of supporting arms pivoted at their forward ends on the carriage near the ends of the platen and when in the normal position extending substantially radially of the platen, a pair of carrying arms connected to said supporting arms to slide longitudinally lengthwise thereof, a spindle connecting the rear ends of said carrying arms, paper feed rollers carried by said spindle, and a pair of springs connected to the two pairs of arms and each exerting its force to slide the associated carrying arm longitudinally towards the free end of its companion supporting arm and thus exert the force of said springs on the feed rollers to apply them to the platen substantially radially thereof.

1,752,483. OVEN HEATING AND CIRCULATING SYSTEM. BURT S. HARRISON, Brooklyn, N. Y. Filed July 6, 1928. Serial No. 290,842. 17 Claims. (Cl. 34—12.)



1. A method of heating consisting in providing a volume of products of combustion of desired temperature, using said products to raise a supply of air to a given temperature, circulating the products of combustion within a desired area, circulating the supply of air within another area and recirculating the products of combustion and air.

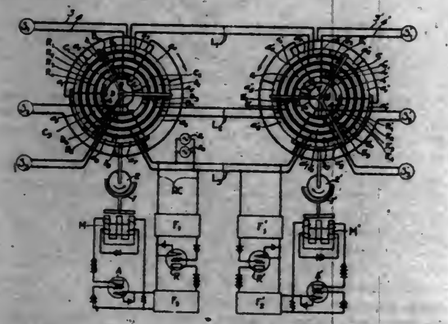
1,752,484. TYPEWRITING MACHINE. FREDERICK A. HART, New Britain, Conn., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Original application filed Oct. 22, 1926, Serial No. 143,382. Divided and this application filed Dec. 13, 1927. Serial No. 239,706. 8 Claims. (Cl. 197—137.)



1. In a typewriting or like machine, the combination of a platen, a fine wire line indicator, supporting means for

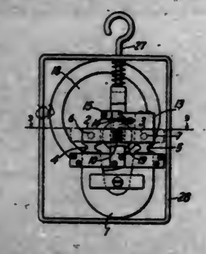
supporting said indicator for movement to and from indicating position, and means for adjustably securing said indicator on said supporting means comprising releasable clamping jaws by and between which one end portion of the wire indicator is held, on the wire indicator enabling it to be adjusted relatively to said jaws and the printing line.

1,752,485. SECRECY SYSTEM. RALPH V. L. HARTLEY, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1925. Serial No. 65,505. 10 Claims. (Cl. 179—1.)



1. The method of securing secrecy in the transmission of telephone messages over a signaling system employing a plurality of transmission paths, which method comprises dividing different telephone message waves into fragments on an arbitrary predetermined time basis, interchanging the fragments of the different messages between the different paths in such a manner that a substantially continuous unintelligible wave comprising fragments of each of the original waves is transmitted over each of said paths, and at a receiving point separating and recombining the transmitted fragments to reproduce the original message waves.

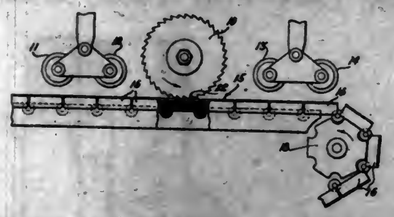
1,752,486. MAGNETIC DEVICE. RALPH V. L. HARTLEY, South Orange, N. J., assignor to Bell Telephone Laboratories Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 30, 1926. Serial No. 145,143. 9 Claims. (Cl. 179—114.)



1. An electromagnetic device comprising a flux path, a coil for variably energizing said flux path, means in said path traversed by the variable flux therein for limiting the maximum flux therethrough, and means for rendering ineffective the limiting property of said last mentioned means.

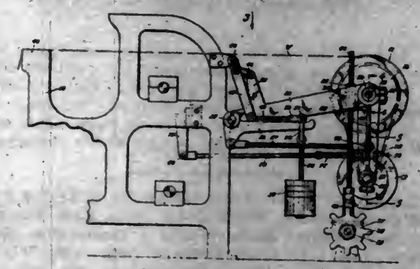
1,752,487. SAWING MACHINE. CHARLES IRVING HOAG, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1927. Serial No. 243,047. 5 Claims. (Cl. 143—49.)

1. In a sawing machine, a saw, a feed chain comprising a plurality of interconnected blocks, each of the blocks being provided with a removable insert having a groove for receiving the saw, a resilient means mounted in the block



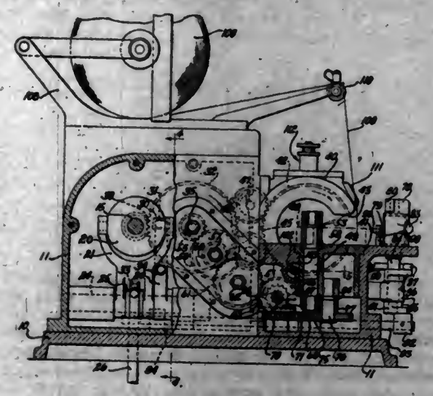
and positioned between the block and the insert for normally pressing the insert upwardly against the underside of the material being sawed.

1,752,488. LET-OFF MECHANISM FOR LOOMS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 6, 1927. Serial No. 238,151. 11 Claims. (Cl. 139—109.)



1. Loom let-off mechanism comprising a warp beam, means to tension the warp thereon, means to progressively raise said warp beam transversely to the plane of delivery of the warp to maintain the warp threads substantially in a predetermined plane of delivery as the size of the warp beam is reduced, and means to simultaneously and progressively adjust the tension means as the warp beam is raised, thereby maintaining the warp tension substantially uniform.

1,752,489. WRAPPING APPARATUS. RALPH JONGEDYK, Hinsdale, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1927. Serial No. 225,441. 6 Claims. (Cl. 242—6.)

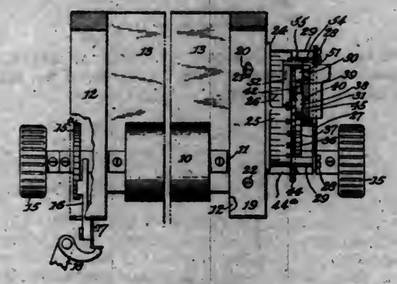


1. In a wrapping apparatus, means arranged to be interlinked with an annular object for applying a wrapping thereto, means for supporting and advancing the object to cause the wrapping to be applied spirally thereto, manually controlled means for predeterminately positioning the object in operative relation with its advancing means, and a mechanism connected thereto for maintaining the same in either its operative or inoperative positions.

1,752,490. PROCESS FOR CHANGING THE PROPERTIES OF SILICON STEEL. JOHN CLARENCE KARCHER, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Sept. 19, 1924, Serial No. 738,714, Patent No. 1,677,139. Divided and this application filed May 4, 1928. Serial No. 275,262. 9 Claims. (Cl. 148—13.)

1. A process for increasing the permeability of silicon steel, which consists in heating the silicon steel at a temperature between 1000° C. and 1250° C., cooling at a rate of not more than 10° C. per minute to a temperature between 550° C. and 800° C., and then cooling the steel slower than quenching in water but faster than quenching in open air.

1,752,491. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 28, 1926. Serial No. 118,990. 12 Claims. (Cl. 197—117.)



1. In a platen-control mechanism, in combination, a platen, a ratchet-wheel, an operating handle having an inwardly-directed hub on which said ratchet-wheel is revolubly mounted, a guide-wheel on the end of said hub, means on the handle for driving the ratchet-wheel, a spring on said guide-wheel, and rotating connections between the ratchet-wheel and the platen.

1,752,492. PROCESS OF MAKING QUINALDINE. LUCAS P. KYRIDES, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed July 16, 1923. Serial No. 651,964. 8 Claims. (Cl. 260—38.)

1. An improved process of manufacturing quinaldine from aniline and one member of the group comprising the two compounds, aldol and crotonaldehyde, in the presence of mineral acid which comprises heating one of the organic reacting ingredients to or near its boiling point and then adding the other ingredient thereto while maintaining the reaction mixture at or near its boiling temperature.

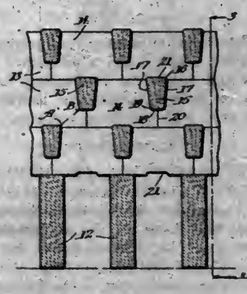
1,752,493. RAILWAY SIGNALING. FREDERICK C. LAVARACK, Montclair, N. J., and DANIEL W. RICHARDS, Roanoke, Va. Filed Aug. 4, 1925. Serial No. 48,030. 2 Claims. (Cl. 248—82.)

1. As a cable support adapted to hold a cable firmly to a rail, the combination of a clip adapted to engage a flange of a rail of a hook bolt adapted to be held in place on one edge of the opposite flange of a rail by the clip and oppositely disposed orificed clamping plates holding a cable therebetween and against the other edge of the rail flange



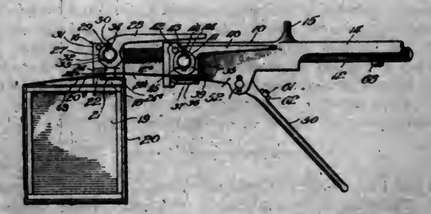
by having the hook of the bolt pass through both the orifices formed in one end of the plates and the orifices formed in the other end of the plates said hook bolt adapted to have the end of the hook rest on the upper face of the flange of the rail.

1,752,494. CHECKERWORK FOR FURNACES. FRED H. LOFTUS, Aliquippa, and THOMAS N. KURTZ, Pittsburgh, Pa. Filed Jan. 31, 1929. Serial No. 336,375. 13 Claims. (Cl. 72—15.5.)



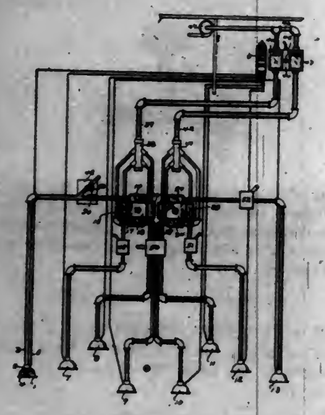
1. In checker-work, the combination of a series of tiles having tapered bodies providing inclined end portions in planes at right-angles to the vertical longitudinal plane of the tile and laid end to end to provide tapered seats between the adjacent ends of the tiles, and heat exchangers tapered in transverse cross section seated in said tapered seats.

1,752,495. STRAP-STRETCHING DEVICE. CHESTER M. MACCHESNEY and RALPH H. NORTON, Chicago, Ill., assignors to Acme Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 26, 1925. Serial No. 64,732. 8 Claims. (Cl. 254—71.)



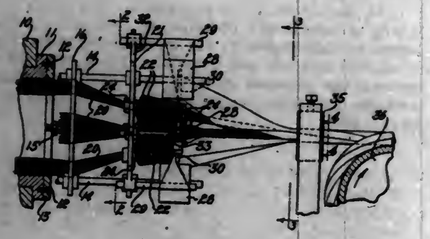
8. A device for holding and stretching a strap, comprising a frame member, a rack bar movable longitudinally of said frame member, gripping means carried by said rack bar, other gripping means carried by said frame member, a lever pivoted on said frame member, a pawl actuated by said lever for engaging said rack bar, and means tending normally to return said pawl and said lever to their inoperative positions.

1,752,496. FIRE-DETECTING APPARATUS. GEORGE M. MABE, New York, and ARTHUR PHELPS MABE, Brooklyn, N. Y. Filed Dec. 14, 1926. Serial No. 154,839. 13 Claims. (Cl. 116—114.)



1. A fire detecting apparatus comprising a primary smoke observation station and a secondary smoke observation station and means for connecting them, reflecting surfaces in both said stations and means for causing smoke to pass over said reflecting surfaces.

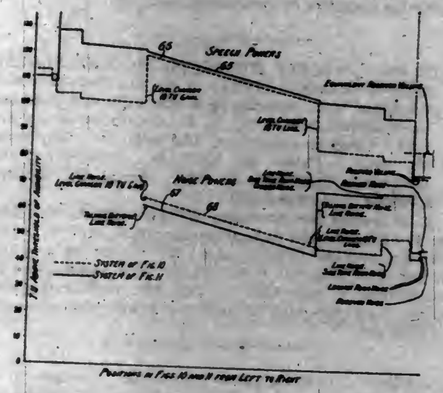
1,752,497. APPARATUS FOR PRODUCING ELECTRICAL CABLES. HENRY ROGERS MASSINGHAM, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 19, 1926. Serial No. 123,329. 4 Claims. (Cl. 117—34.)



1. In an apparatus for forming telephone cables, a rotary member, a plurality of sleeves mounted therein and adapted to carry cops of binding material in fixed relation thereto, means for supplying to the interior of each of said sleeves a group of conductors to be bound, said means including a rotary disk having groups of guiding apertures therein for the conductors and means for serving the material to the group of conductors.

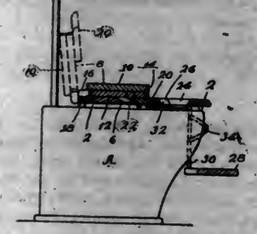
1,752,498. TELEPHONE SYSTEM. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 21, 1927. Serial No. 193,242. 7 Claims. (Cl. 179—1.)

1. A telephone system comprising telephone exchanges, subscribers' lines connected to said exchanges, trunk circuits extending between said exchanges, means included in said exchanges for connecting said subscribers' lines to said trunk circuits to form telephone transmission circuits, and means for maintaining a lower signal energy level on said subscribers' lines than on said trunk circuits, whereby advantage is taken of lower noise energy level on the subscribers' lines than on the trunk circuits, said



last mentioned means including energy level changers and means for bringing said energy level changers into the telephone transmission circuits when a subscriber's line is connected to a trunk circuit.

1,752,499. TOILET SEAT. CAMPBELL A. MEATH, Neodesha, Kans. Filed Nov. 26, 1928. Serial No. 322,033. 2 Claims. (Cl. 4—235.)

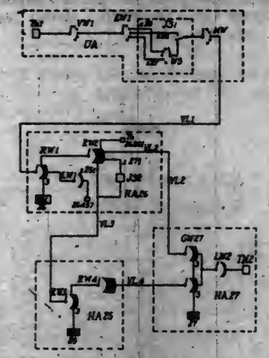


1. A toilet seat having an opening, a lid arranged to cover and uncover said seat and consisting of front and rear sections hinged together so that one may be folded upon the other, and a filler block secured to the under side of and projecting forwardly from the rear section and arranged to fit within and partly close the opening in the seat.

1,752,500. MULTIOFFICE TELEPHONE SYSTEM. WILLY MÜNCHENHAGEN, Berlin-Tempelhof, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Aug. 12, 1927, Serial No. 212,433, and in Germany Dec. 2, 1926. Renewed July 8, 1929. 29 Claims. (Cl. 179—18.)

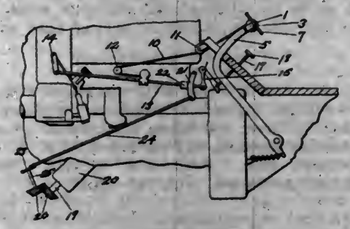
1. In a telephone system, a first exchange, a second exchange, an impulse sender in said first exchange, automatic switches in said second exchange, a trunk line connecting said exchanges, means in said first exchange for seizing said trunk line over any one of a plurality of paths, and switching means in said first exchange automatically

operated only in case the path over which said trunk line is seized designates said second exchange as an inter-



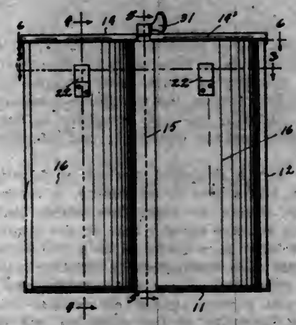
mediate exchange for automatically operating said impulse sender to automatically position said switches in said second exchange.

1,752,501. ACCELERATOR CONTROL. HUBERT A. MYERS, Toledo, Ohio. Filed Jan. 17, 1928. Serial No. 247,328. 6 Claims. (Cl. 74—39.)



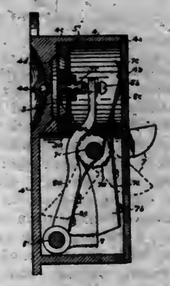
4. In a controlling mechanism for carburetors on automobiles, a roller rotatably supported by and located within the brake pedal of the automobile, the axis of rotation of the roller being parallel to the pressure face of the pedal, the side of the roller protruding slightly from the pressure face of the pedal, and a member connected to the rotatable member and to the throttle valve of the carburetor for operating the valve by rotative movements of the roller.

1,752,502. BOTTLE CONTAINER. CONRAD T. NEITZEL, Dallas, Tex., assignor, by mesne assignments, to Hogan-Oliver, Little Rock, Ark. Filed Aug. 22, 1927, Serial No. 214,524. Renewed Dec. 12, 1929. 4 Claims. (Cl. 232—41.)



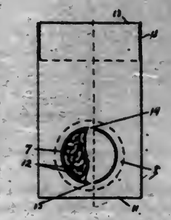
1. In a bottle container, a pair of vertical compartments, vertical fronts for the compartments hinged at their lower ends to the compartments, bottle supporting yokes mounted on the inner side of each front, a lock bar hinged in each compartment in the path of a bottle carried by the yoke and having an apertured free end, an arm mounted between the compartments and having a cross-head on one end with projections to enter said apertured ends and fingers on the other end, the cross-head projection engaging the lock bar in one compartment while one of the fingers extends into the other compartment to interlock with its front, a shiftable shaft attached to the arm, and vertically movable rods pivotally attached to the fronts and having their upper ends located to be projected into the paths of the fingers when the fronts are swung outwardly.

1,752,503. RELEASE MECHANISM FOR FIRE EXTINGUISHERS. HOWARD W. PARTLOW, Utica, N. Y. Filed Aug. 31, 1928. Serial No. 303,233. 8 Claims. (Cl. 74—93.)



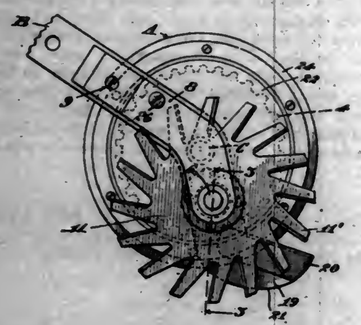
1. In a release for tiltable containers of automatic fire extinguishers, a box, a shaft passing transversely through the box and supporting an external trip arm to which the head of the container may be detachably connected, a pendant lever supported by said shaft within the box, a diaphragm above the pendant lever, a rockable member pivoted below said shaft having a tooth movable into the path of and adapted to engage the pendant lever for holding the container head elevated, said member having a long arm that overlies the diaphragm, and means to rock said member by the flexing of the diaphragm to break the engagement of said tooth with said pendant lever for effecting the release and tilting of the container.

1,752,504. PACKING CARTON. GEORGE G. PENROSE Chicago, Ill. Filed Nov. 28, 1927. Serial No. 236,072 1 Claim. (Cl. 206—44.)



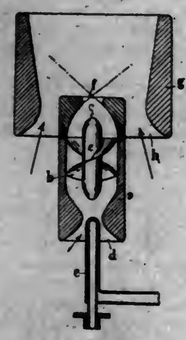
A carton having an opening in the wall thereof; and a closure for said opening, said closure consisting of two flat rings having perforations corresponding to the perforation in the carton wall and a transparent sheet interposed between said rings the edges of said sheet being hermetically sealed between said rings and the outer of said rings being adhesively secured to the inner wall of said carton around the opening therein.

1,752,505. LAWN EDGER. OLIVER B. PICKETT, Long Beach, Calif. Filed June 18, 1927. Serial No. 198,360. 5 Claims. (Cl. 97—227.)



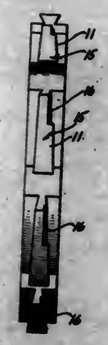
1. In a lawn edger, in combination, a traction wheel having internal gear teeth, a handle member on which said wheel is rotatably mounted, said handle member having an extension which projects below the axis of rotation of said wheel, a pinion shaft mounted in said extension, a pinion gear fixed to one end of said shaft and meshing with said internal gear teeth, a toothed cutting disk fixed to the other end of said pinion shaft, a foot-piece formed as a downward continuation of said extension of the handle member, a cutting blade carried by said foot-piece to cooperate with the teeth of said cutting disk, a screw on said handle member, and means engaged by said screw connected to said pinion shaft operable to vary the pressure of the cutting disk against said cutting blade.

1,752,506. CARBURATION DEVICE. FERNAND CHARLES FREDERIC PORTAIL, Gennevilliers, France, assignor to Société Anonyme le Carbone, Gennevilliers, France. Filed Nov. 2, 1926, Serial No. 145,800, and in France Nov. 28, 1925. 2 Claims. (Cl. 261—79.)



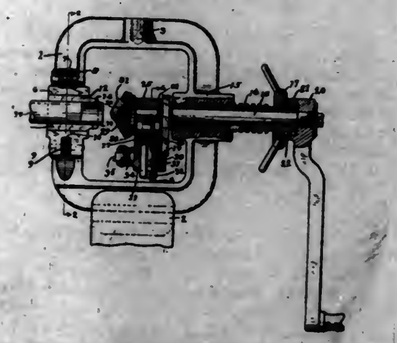
1. In a carburation device, a fuel nozzle, an atomizer located in advance of the nozzle in the path of the fuel and consisting of a tubular body in the lower end of which the nozzle opens and through which enters only the air adapted to atomise the fuel, a screw mounted on an extended core in the tubular body, the upper end of the core and the outlet opening of the tubular body being so shaped as to cause the atomised fuel to issue therefrom in the form of a flattened conical sheet, and a main air supply tube provided with an opening arranged and shaped so that the main air supply passes through the aforesaid flattened conical sheet of fuel.

1,752,507. SHAPING TOOL. WILLIAM RUTHVEN, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 15, 1926. Serial No. 141,708. 3 Claims. (Cl. 29—103.)



1. In a shaping tool, a rotary cutter having a plurality of peripheral teeth, each of the teeth having similar continuous working surfaces extending between the front and rear portions thereof, a portion of the working surface of each tooth being similarly mutilated at a point which marks the minimum safe extent to which the stock of the individual tooth may be reduced upon sharpening.

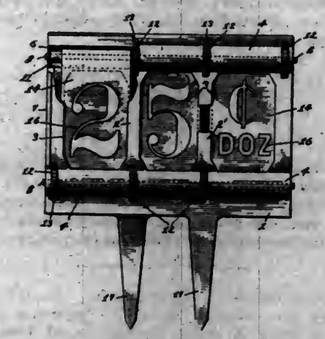
1,752,508. METHOD OF AND MACHINE FOR FLANGING PIPES. CHARLES F. SCHULTIS, Cleveland, Ohio, assignor, by direct and mesne assignments, of one-fourth to Isadore Herzbrun and one-fourth to S. W. Goldman, Cleveland, Ohio. Filed Aug. 9, 1927. Serial No. 211,718. 10 Claims. (Cl. 153—81.)



1. A tube flanging machine comprising a spindle, means for rigidly holding a tube in axial alinement with said spindle, a plurality of flanging rolls carried by said spindle, means for rotating the spindle, and means for simultaneously adjusting one roll inwardly to tube engaging position and another outwardly out of tube engaging position.

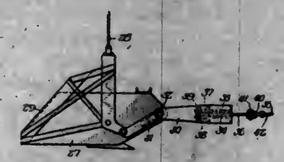
10. The herein described method of forming on relatively thin stiff-walled metal tubing, a reversely curved hook flange having an outer face which conforms to a transversely concave annular seat on one coupling member and whose inner face conforms to a transversely convex annular seat on a complemental coupling member which comprises expanding an end of the tubing and rolling the expanded end portion against an annular die encircling the tubing inwardly of the expanded end portion and having a flange engaging face corresponding in size and shape to the convex annular seat of the last mentioned coupling member with a roller whose surface has a longitudinal curvature corresponding to the transverse curvature of the concave annular seat of the first mentioned coupling member.

1,752,509. PRICE TAG. SAMUEL SINGER, San Francisco, Calif. Filed Feb. 11, 1928. Serial No. 253,726. 4 Claims. (Cl. 40—86.)



1. A price tag comprising a frame formed from a pair of matching plates having a plurality of windows formed in the middle portion and provided with matching indentations forming recesses above and below the windows; shafts extending axially through the recesses; a plurality of reels mounted upon each shaft within the recesses; a plurality of webs each having its ends wound upon reels above and below a window and bearing price designating characters arranged to be observed through the windows; annular flanges formed upon one end of each reel and extending outwardly through slots formed in matching relation in the front and back indented portions of the frame plates for positioning the reels axially within the recesses and for turning the reels and thereby winding the webs in either direction to display the characters desired; and prongs formed upon the frame and extending downwardly therefrom to be inserted into a product to be marked.

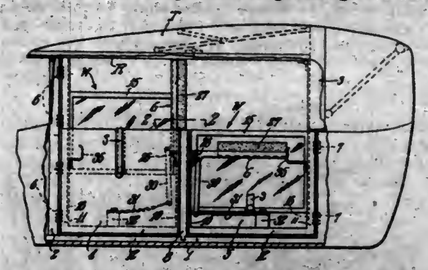
1,752,510. BUCKET EXCAVATOR. EARL P. SHNABLE, Chicago, Ill. Filed May 12, 1927. Serial No. 190,745. 6 Claims. (Cl. 37—135.)



2. A draft device for buckets comprising a bail adapted to be attached to a bucket, said bail including a rigid member, a draft member pivotally secured to said rigid member at a point behind the place of connecting said rigid member to the other portions of the bail.

1,752,511. CONVERTIBLE BODY. HINSDALE SMITH, Springfield, Mass., assignor to Inglis M. Uperco, New York, N. Y. Filed July 14, 1927. Serial No. 205,728. 9 Claims. (Cl. 296—46.)

1. The combination with a door and window slidable with respect thereto, of a guide pivoted to said door, means separate from the window for swinging said guide to a guiding position, the said guide and window provided with an interfitting flexible tongue and groove whereby the window is guided in its raising or lowering movements, and a flexible closure strip carried by the guide at a side thereof.

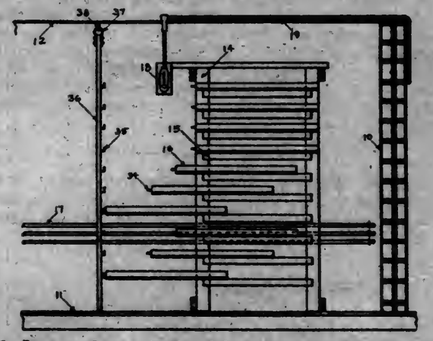


1,752,512. COMBINED MOP AND BRUSH HOLDER. WALTER A. SMITH, Freeport, Ill., assignor to Stover Manufacturing & Engine Co., Freeport, Ill., a Corporation of Illinois. Filed June 6, 1928. Serial No. 283,154. 6 Claims. (Cl. 15—148.)



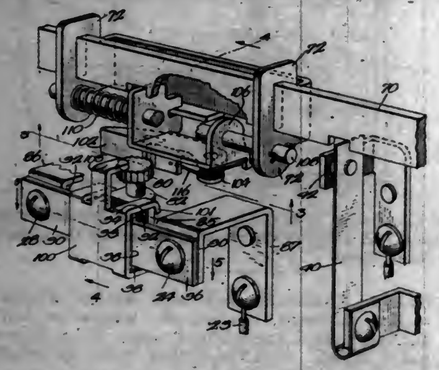
1. A combined mop and brush holder having a mop head jaw provided with a handle spindle socket formed by semi-circular strap portions pressed in opposite directions from the jaw, and a brush holding part adapted to seat against the jaw having semi-circular strap portions complemental to those of the jaw.

1,752,513. SEED-CORN-TESTING LABORATORY. OTTO P. TIEMANN, Bloomington, Ill. Filed May 14, 1927. Serial No. 191,309. 3 Claims. (Cl. 47—16.)



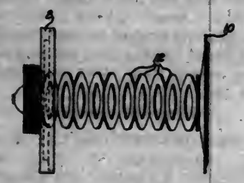
1. In a seed corn testing laboratory comprising a compartment sealed in a manner to maintain a substantially constant high temperature therein and having temperature control means therefor; a support in said compartment, a plurality of seed germinating trays disposed as a stack one above the other on said support in a manner to permit withdrawal thereof for the purpose of applying water thereto, and a rigid upright member adapted to be detachably fixed opposite said stack and having portions adapted to engage a plurality of said seed germinating trays when withdrawn to thereby co-operate with said support in maintaining the trays in upright position.

1,752,514. THERMAL OVERLOAD RELAY. HERMON L. VAN VALKENBURG, Wauwatosa, Wis., assignor, by mesne assignments, to Square D. Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 19, 1926. Serial No. 142,625. 20 Claims. (Cl. 200—124.)



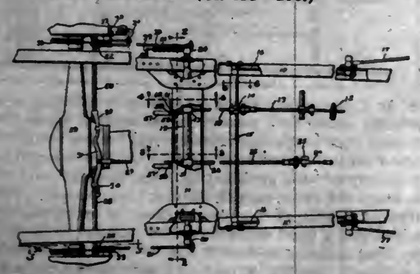
1. A device of the class described having a movable circuit controlling element, a rotatable detent for holding it, a vertical solder cup, fusible alloy therein, and means for heating the alloy, the detent having a stem extending down into the cup and having a step bearing in said cup and a lateral bearing in the sides of the cup.

1,752,515. SOUND OR VIBRATION TRANSMITTING APPARATUS. EARL WENSLEY, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 10, 1928. Serial No. 276,656. 8 Claims. (Cl. 179—180.)



8. In a transmitter, a diaphragm, a rigid member, a conical member containing comminuted resistance-varying material, and a plurality of superimposed interconnected annular leaves between the rigid member and the conical member for damping vibrative responses of the diaphragm and for preventing leakage of the comminuted matter from the conical member.

1,752,516. BRAKE. JOHN J. WHARAM, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich., a Corporation of Delaware. Filed Sept. 10, 1927. Serial No. 218,619. 5 Claims. (Cl. 188—106.)



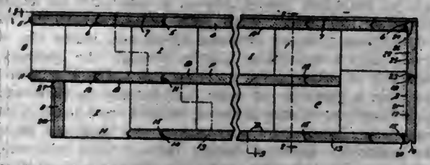
4. In a brake system, a vehicle having front and rear wheel brake drums, an expanding brake for each of the front brake drums, an expanding brake and a contracting brake for each of the rear brake drums having an equalizer operatively connected therebetween, a foot pedal arranged to operate both pairs of said expanding brakes, and a hand lever arranged to operate both pairs of said rear brakes through said equalizer.

1,752,517. SECURING CLIP FOR METALLIC LATH. WILLIAM F. ZABRISKIE, Detroit, Mich., assignor to Gabriel Steel Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 20, 1928. Serial No. 255,849. 4 Claims. (Cl. 72—118.)



3. A clip for securing an open mesh fabric to a supporting member comprising a wire bent to form substantially parallel prong portions, return bent loops extending oppositely from said prongs and obliquely thereto and a central portion connecting said loops for the purpose described.

1,752,518. COMBUSTION CHAMBER. HIRAM B. CANNON, Midway, Ky., assignor to The Carborundum Company, Niagara Falls, N. Y., a Corporation of Pennsylvania. Filed Aug. 15, 1925. Serial No. 50,399. 11 Claims. (Cl. 110—86.)



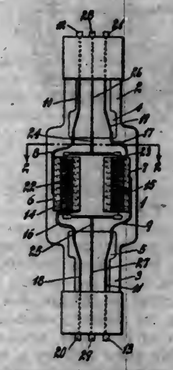
1. A combustion chamber having top, bottom and side walls and an end wall made from tiles of refractory material having high heat-radiating qualities, the sides comprising each an upper and a lower course of tiles interlocked at their front and rear edges, a partition formed of tiles and interposed between the top course of tiles and the bottom course of tiles of each side wall, the tiles comprising the partitions being interlocked with each other and also being interlocked with the tops of the tiles therebelow and with the bottoms of the tiles therebeneath, the tiles at the top and bottom of the chamber being also interlocked with the tiles constituting the sides, and the tiles constituting the rear wall of the chamber being interlocked with each other and with the tiles in the top, bottom and sides.

1,752,519. DISPLAY HOLDER FOR BAR CANDY OR THE LIKE. GEORGE H. CARDINET, Oakland, Calif. Filed Feb. 27, 1928. Serial No. 257,439. 1 Claim. (Cl. 211—157.)



A display holder of triangular cross-area for bar candy and the like, comprising a blank of flexible board cut away at opposite intermediate parts to provide a narrow connection at the middle part of the blank, the blank being folded transverse of its middle across the narrow connection to provide the converging sides of the holder with the narrow connection at the apex of the holder, said sides having the same contour with their upper edges curved outwardly and downwardly from the narrow connection at the apex of the holder to impart a rounded effect to the upper part of the holder, the end parts of the blank being bent transversely to provide narrow flaps that project inwardly and overlap to form a narrow base to the holder, and means for securing the flaps together.

1,752,520. RADIOTUBE. HERBERT C. COLBURN, San Leandro, Calif. Filed Aug. 18, 1924. Serial No. 732,683. 2 Claims. (Cl. 250—27.5.)

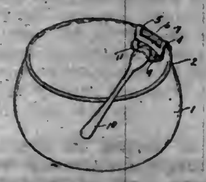


1. A radio tube having two thermionic translating units each comprising a plate, a grid and a filament, presses within said tube at opposite ends thereof for supporting the elements of said units, the grid of each unit being supported on a press different from that on which the plate of the same unit is supported.

1,752,521. METHOD OF DEHYDRATING CHEESE. ALVA G. DAY, South Edmeston, N. Y., assignor, by mesne assignments, to K-P-C Company, a Corporation of Illinois. Filed Mar. 17, 1927. Serial No. 176,035. 7 Claims. (Cl. 99—5.)

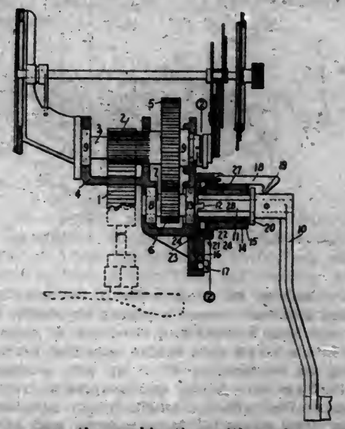
5. The method herein described of dehydrating cheese, which consists in subjecting the cheese, while freshly ground and rather moist, to the action of hot air in motion, and meanwhile agitating the cheese thus treated, in order to prevent the same from cohering into nodules.

1,752,522. SPOON-HOLDING CLIP. ALBERT J. ECKELMAN, Portland, Oreg. Filed Jan. 12, 1929. Serial No. 332,219. 2 Claims. (Cl. 65—65.)



1. In a device of the class described, the combination in a metallic body member of upwardly extending arms disposed at either end of the body member, each arm terminating in a hook like end, a ledge inwardly extending from the body member, said ledge having its front edge upwardly extended to form an inverted V-shape centrally thereof adaptable for limiting the movement of the stirring element placed thereupon and a cut out disposed within the ledge between the body element and the outer rim of the ledge through which the stirring element may be placed to maintain the stirring element in placed position, substantially as shown and described and for the purpose set forth.

1,752,523. LIQUID-MEASURING PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The National Recording Pump Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 9, 1925. Serial No. 1,836. 15 Claims. (Cl. 188—82.)



3. In a pump, the combination with a piston actuating device, a rotatable handle, and a connection between said handle and said actuating device, of a structure mounted in fixed relation to said actuating device, comprising a bearing and having an annular cavity at the inner end of said bearing, a support for said handle rotatably mounted in said bearing and having a head arranged in said annular cavity, a clutch ring interposed between said head and the circumferential wall of said cavity, a clutch member arranged to engage said clutch ring and hold the same against movement in one direction, plungers slidably mounted in the head of said support and springs for forcing said plungers into frictional engagement with said clutch ring.

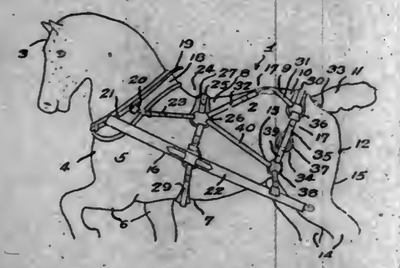
1,752,524. DRILL. THOMAS GRANT, Gillespie, Ill. Filed June 28, 1928. Serial No. 288,861. 2 Claims. (Cl. 255—69.)



1. A drill of the class described, comprising a head having a central threaded axial socket and individual

multiple sockets inclined to the central axis and intersected for part of their diameter by said axial socket forming apertures in its wall, multiple cutters slidably mounted in said inclined sockets with portions of their inner ends extending through said apertured wall into said axial socket, and a screw mounted in said axial socket and having the circumferential corner edge of its inner end engaged with the side face of the portion of each cutter extending into said axial socket, substantially as described.

1,752,525. HARNESS. HOWARD V. HANSON, Walla Walla, Wash. Filed Feb. 2, 1929. Serial No. 337,086. 2 Claims. (Cl. 54—1.)



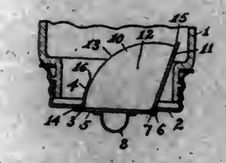
1. In a harness for draft animals, including a collar and traces attached thereto, a tripurpose member forming a part of a field harness and providing to convert said harness into a single or a double breeching harness, and consisting in combination of a hip pad provided with means to form side joints, and adapted to rest across the croup of the animal, a longitudinally movable double breeching ring suspended from each of said joints and positioned to avoid the hips, and adapted to receive a breeching fold in a manner to form with the hip pad a sling, rigidly positioned single breeching rings suspended from the double breeching rings and positioned normally in line with said double breeching rings and said side joints, and adapted to receive a single breeching in a manner to communicate the load directly to the croup, and providing means cooperable with the single and double breeching rings to support said traces according to the respective harness arrangements.

1,752,526. SOUND AMPLIFIER. FRANK C. HINCKLEY, Stratford, Conn., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed July 3, 1926. Serial No. 120,433. 9 Claims. (Cl. 181—27.)



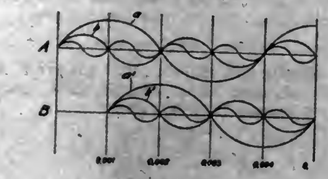
4. A sound amplifier comprising an entrance throat, a member receiving sound from said throat and dividing it into two columns, a pair of horns one for each of said columns and receiving sound from said member, a dividing board spaced from one of said horns and said member and embracing the other of said horns, said last-mentioned horn abutting said member, and a pair of tone chambers one at each side of said dividing board and into which the respective horns discharge.

1,752,527. MEASURING DEVICE. ALBERT P. HOWARD, Norwalk, Ohio. Filed Feb. 15, 1928. Serial No. 254,891. 6 Claims. (Cl. 221—98.)



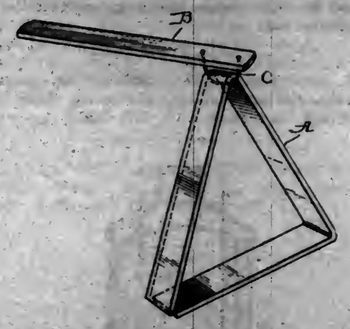
1. In a measuring device, the combination of a cover for a receptacle, the cover being provided with an opening, a partition at one end of the opening extending within the receptacle and curved on the arc of a circle, a closure plate for the opening, the closure plate being pivotally supported to the outside of the cover, sides and a rear plate carried by said closure plate forming a compartment, the side being curved to conform to the curve of said partition, and means for limiting the movement of said compartment.

1,752,528. METHOD AND APPARATUS FOR COMPARING AND ADJUSTING THE ELECTRICAL LENGTH OF PATHS FOR THE TRANSMISSION OF ELECTRICAL ENERGY. FRANCIS ALLEN HUBBARD, Teaneck, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 4, 1919. Serial No. 321,512. 4 Claims. (Cl. 177—386.)



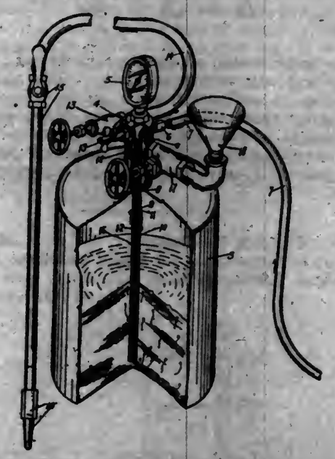
3. Apparatus for locating the direction of a source of sound, comprising a pair of sound responsive current varying devices and a pair of translating devices connected by a pair of transmission lines, means to adjust the electrical length of one of said transmission lines to compensate for differences in time of arrival of a sound wave at said sound responsive devices, and means associated with said compensating means for indicating the direction of the source of sound.

1,752,529. TONE-PRODUCING TRIANGLE. CYRUS KITCHING, Chicago, Ill. Filed Apr. 9, 1928. Serial No. 268,671. 1 Claim. (Cl. 84—402.)



A tone producing instrument comprising a triangle formed from a flat metal bar, and a handle having a relatively short flexible loop adapted to support said triangle in suspended position from an apex thereof and against rotation when the same is struck.

1,752,530. PRESSURE-LUBRICATING APPARATUS. JOHN S. LYNN, Los Angeles, Calif., assignor to The Vesuvius Corporation, Los Angeles, Calif. Filed Apr. 2, 1928. Serial No. 266,644. 7 Claims. (Cl. 299—89.)

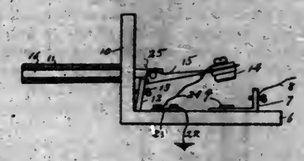


5. In combination, a closed container for fluid mixture, means for agitating the mixture in said container including a pipe extended thereinto to discharge a jet of air under pressure above the fluid level, a pipe extended into the bottom of said container through said fluid mixture and having its upper end open adjacent said first pipe to receive said forced air jet whereby air in the upper part of said container is entrained by said air jet into said pipe and discharged in the bottom of said container for agitating said fluid mixture, and outlet means from said container for said fluid mixture.

1,752,531. COMPOSITION OF MATTER AND METHOD OF ITS PREPARATION. FRANK SIGFRID MALM, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 20, 1928. Serial No. 327,487. 13 Claims. (Cl. 18—50.)

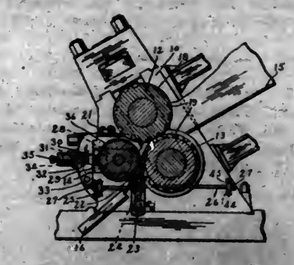
11. A method of producing a rubber material which has stable electrical properties when submerged under sea bottom conditions, comprising the steps of solidifying and heat treating rubber in the presence of a salt solution, said rubber containing a solid, natural, nitrogenous substance, followed by a process of washing and drying the material, said step of heat treating serving to render the nitrogenous substance soluble in water by subjecting the rubber in the solution to a temperature of more than 100° C. and said washing serving to remove a considerable portion of said substance rendered soluble and contained in the solidified material.

1,752,532. ELECTRICAL THERMOSTAT. JOB FORDYCE MALSBARY, Fresno, Calif. Filed Jan. 29, 1929. Serial No. 335,895. 2 Claims. (Cl. 200—137.)



1. In an electrical thermostat the combination of a member susceptible of expansion and contraction by applying heat and cold thereto, a bar having less expanding characteristics than said member, said member being attached at one end to said bar and at the other end to a base, adapting said bar to have a movement parallel with said member as the member expands or contracts, an arm having a contact point at one end, an angular extension at the opposite end, and a catch thereon on the side opposite to the angular extension, said arm being pivotally connected with the non-expanding bar and adapted to be moved therewith, stop means adapted to engage the catch in its path of travel, and a fixed contact point positioned to engage the contact point on said arm when the arm is in a predetermined position.

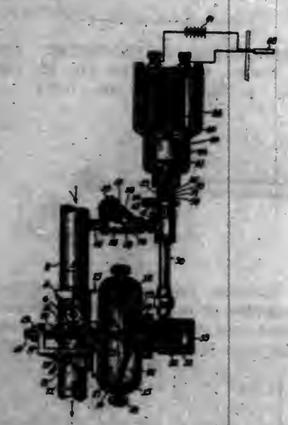
1,752,533. CANE MILL. FRANCIS MAXWELL, Wallington, England. Filed June 23, 1927. Serial No. 200,890. 4 Claims. (Cl. 100—47.)



1. In a cane mill, a pair of cooperating cane crushing rolls and a cane shredding roll, said rolls being mounted in a standard with the axes of said shredding roll and one of said crushing rolls disposed substantially in alignment horizontally and below the axis of the other crushing roll, and the axis of the upper crushing roll being disposed substantially intermediate the axes of said shredding roll and the lower crushing roll, whereby cane passing between said crushing rolls may be directed against the periphery of said shredding roll intermediate the same and the lower crushing roll, and a scraper bar having an edge adapted to bear against said lower crushing roll and having its upper surface substantially tangent with the periphery of said shredding roll to cooperate therewith to shred cane passing therebetween, the point of cooperation between said shredding roll and said scraper bar being intermediate the axes of said shredding roll and the lower crushing roll, and substantially in alignment with the direction of flow of

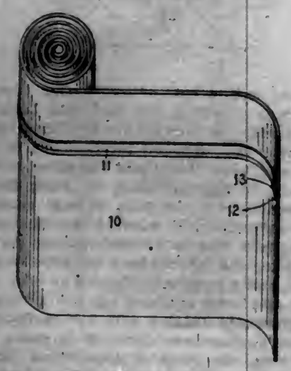
the cane emerging from between said crushing rolls whereby said shredding roll and said scraper will act upon such cane before the same has appreciably expanded from its crushed and pressed condition caused by said crushing rolls.

1,752,534. CONTROL DEVICE. GARNET W. MCKEE, Rockford, Ill. Filed Mar. 22, 1926. Serial No. 96,407. 9 Claims. (Cl. 236—80.)



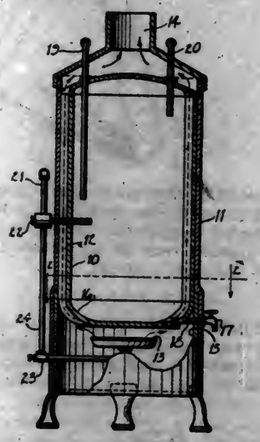
1. A control device having, in combination with a supply pipe, a butterfly valve in said pipe and having a stem projecting from one side thereof, a casing, a pressure responsive member in said casing and dividing said casing into a chamber open to the atmosphere, and a pressure chamber, means operatively connecting said member to said stem, means tending to move said member into said pressure chamber to open said valve, by-pass means connecting said pipe with said pressure chamber, a port in said last mentioned means for permitting the escape of pressure fluid and thereby tending to prevent pressure from building up in said pressure chamber, and manually adjustable means for adjusting the effective opening through said port to control the pressure in said pressure chamber.

1,752,535. CONTINUOUS-ROLL LABEL. JAMES H. MILLHOLLAND, Philadelphia, Pa., assignor to Sandura Company, Inc., Paulsboro, N. J., a Corporation of New Jersey. Filed May 23, 1928. Serial No. 280,044. 3 Claims. (Cl. 206—59.)



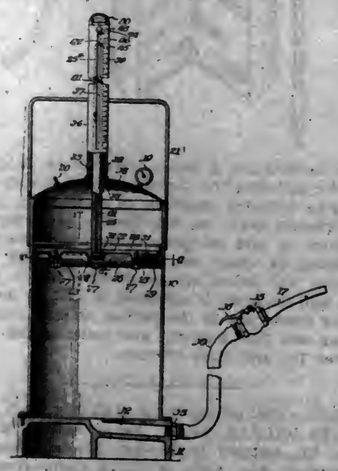
1. A roll of piece-goods fabric having rolled up therewith a like length of label stripping one edge portion of which is provided with an adhesive whereby it is pasted lengthwise to the surface of the fabric and the remaining width-portion of which is free of adhesive throughout its length and provides a loose hand-grip wherever the fabric is straightened out.

1,752,536. STATIONARY WATER HEATER. ARTHUR L. MITCHELL, Dallas, Tex. Filed June 25, 1928. Serial No. 287,956. 2 Claims. (Cl. 122—156.)



1. In a water heater, an upright tank having the body of its vertical wall corrugated for its entire length and merged into top and bottom walls, an open bottom supporting jacket surrounding and closely fitting said tank and forming in conjunction with the corrugations thereof vertical heating flues, said jacket extending below the tank to provide a heating chamber communicating with said flues.

1,752,537. GREASE DISPENSER. ROLLIN H. MOULTON, Berwyn, Ill. Filed Jan. 12, 1927. Serial No. 160,607. 20 Claims. (Cl. 221—47.2.)



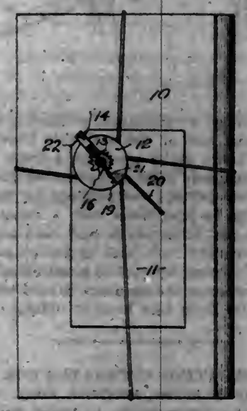
1. Grease dispensing apparatus comprising in combination, a casing, a movable piston in said container comprising a head and a hollow rod, a hollow member connected to said casing within which said hollow rod extends, a valve member connected to said rod, a sliding valve mounted in said hollow member and adapted to engage said valve member to normally close the passage in said rod, and lubricant discharge means connected to said container, the said piston head being composed of a pair of spaced plates, one of said plates having an opening therethrough whereby communication is established between the hollow piston rod and the space in the piston head formed by the spaced plates.

1,752,538. ARTIFICIAL TOOTH. SIMON MYERSON Cambridge, Mass. Filed Apr. 13, 1928. Serial No. 269,696. 2 Claims. (Cl. 32—9.)



1. An artificial tooth comprising a body containing a narrow slot having a mouth opening on and wholly interrupting one of its faces, and a closed end spaced from the opposite face, two intermediate faces of the body being partly interrupted by the slot and provided with recesses which are wider than the slot, the closed end of the slot being spaced from the mouth thereof, a distance much greater than the width of the slot, and a metal plate fitting the slot and having a narrow exposed outer end, substantially flush with the face containing the mouth of the slot, an inner end abutting the closed end of the slot, and flanged opposite exposed edge portions fitting said recesses and substantially flush with the intermediate faces of the tooth, the closed end of the slot being so spaced from the mouth thereof, that the plate has an area sufficient to tie together the flanged edge portions and confine the same against spreading or outward sidewise displacement in the recesses.

1,752,539. SHIPPING TAG. SHUHEI NOGUCHI, Stamford, Conn. Filed Aug. 28, 1928. Serial No. 302,451. 2 Claims. (Cl. 40—20.)



1. A shipping tag comprising a card body having a string receiving and holding means on each side of the tag, said means united by a bridging member, and a cutting device overlying said holding means on both sides of the tag.

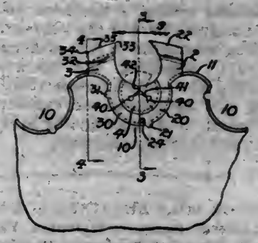
1,752,540. AUTOMATIC COUNTING AND GROUPING MECHANISM FOR CONVEYERS. SAMUEL OLSON, Oak Park, Ill., assignor to Samuel Olson & Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 2, 1927. Serial No. 230,577. 15 Claims. (Cl. 198—34.)



1. In combination with a conveyer, automatically actuated means positioned for arresting the movement of a predetermined number of successive loads on the conveyer for grouping the same, and means operable in correlation with said arresting means for releasing said group of loads for continued movement as a unit.

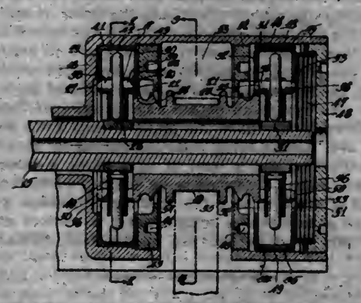
15. In combination with a conveyer, an automatic stop positioned in the path of travel of loads thereon for arresting a number of successive loads to form a group, automatic starting means positioned for actuation by the last load of the group for initiating further movement of the group as a unit, and means for adjusting one of said automatic devices along the path of travel of the loads for varying the size of the group at will.

1,752,541. INSERTED-TOOTH SAW. ELIJAH C. ORR, Seattle, Wash., assignor to Orr Saw Tooth Grinder Co., Seattle, Wash., a Corporation of Washington. Filed June 27, 1927. Serial No. 201,629. 2 Claims. (Cl. 143—151.)



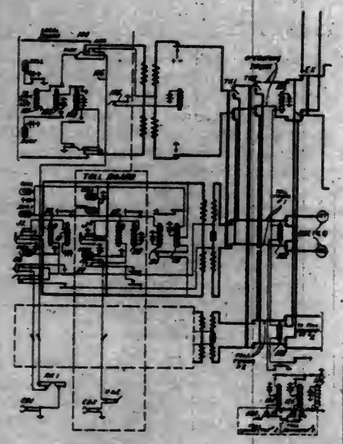
1. A circular saw having tooth receiving recesses, compleinental teeth for each recess and teeth locking means, the tooth which is positioned ahead of its mate having peripheral cutting edges on the plane of its side faces and inclined slightly to the path of movement to thereby produce a draw cut, the following tooth of the pair being a raker tooth positioned to act close behind its companion and projected in a radial direction to cut to approximately the same depth as the side cutting tooth.

1,752,542. DRIVE FOR HIGH-SPEED SPINDLES. CLIFFORD T. RAULS, Brookline, Pa. Filed Oct. 7, 1926. Serial No. 140,036. 24 Claims. (Cl. 74—34.)



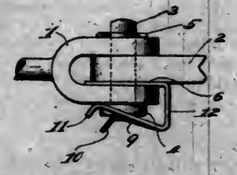
1. In a drive or a spindle, a spindle, a pulley about the spindle, a set of wheel-and-axle roller bearings spaced about the spindle between it and the pulley making rolling engagement with the spindle and rolling axle engagement with the pulley and a fixed bearing member cooperating with the axle.

1,752,543. TELEPHONE SYSTEM. LEONARD L. RUGGLES, Wheaton, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed June 20, 1927. Serial No. 199,917. 39 Claims. (Cl. 179—27.)



2. In a telephone system, a telephone exchange terminating metallic magneto lines of the local-battery type, automatic switching mechanism in said exchange, and means including operator signalling and operator controlled means for effecting and releasing connections between said lines including said mechanism and exclusive of manual switching equipment, while maintaining said lines free of holding current and ground connections.

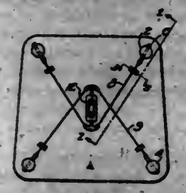
1,752,544. PIN OR BOLT RETAINER FOR BRAKE RIGGING. WILLIAM T. SPARROW, Hampton, Va., assignor of one-third to E. Hayward Fairbanks, Merchantville, N. J. Filed Sept. 30, 1926. Serial No. 138,722. 1 Claim. (Cl. 85—5.)



A pin retainer, comprising two members resiliently connected and converging towards each other, the top one of said members being bifurcated and the lower of said members having an obtuse angled terminal flange deflected downwardly from said top member and adapted to engage the face of the pin carrying member to lock said retainer in position, and a resilient tongue formed in said lower member and also having an obtuse angled terminal flange deflected downwardly below the plane of said lower member, both of said flanges being deflected outwardly in substantial parallelism, and a wall of said lower member from which said tongue is formed being adapted to contact with the head of a pin to lock the retainer in position and the inner wall of said tongue being adapted to contact with the end of said head to prevent longitudinal displacement thereof.

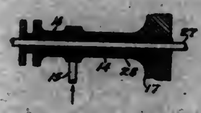
1,752,545. BRACE FOR WINDSOR CHAIRS AND THE LIKE. THEODORE H. WITTLIFF, Cleveland, Ohio. Filed Apr. 23, 1925. Serial No. 25,341. 7 Claims. (Cl. 155—197.)

1. An apparatus of the character described, having in combination a base, a plurality of supports secured to said base, a terminal element secured to each support, a tensioning device positioned beneath said base, supporting members adjacent said supports, connections between said



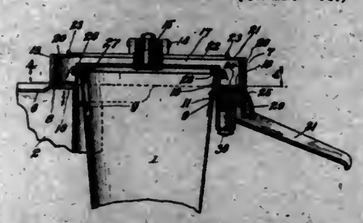
tensioning means and said terminal elements cooperating with said respective supporting members to apply tension to said respective supports in a direction upwardly and toward the center of said base member.

1,752,546. PUMP. ROBERT W. ALLBATON, South Orange, N. J., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 12, 1924. Serial No. 731,539. 8 Claims. (Cl. 286—27.)



1. A pump for hot liquids having a chamber enclosing the plunger rod with provision for flow of liquid from said chamber to the plunger chamber, means for supplying liquid to said rod chamber under pressure, a non-return check valve for preventing the return of the liquid from the plunger chamber, and a valve for regulating the supply to the rod chamber.

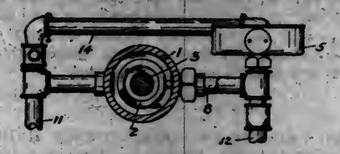
1,752,547. WASHING MACHINE. ALPHEUS W. ALTORFER, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed July 5, 1927. Serial No. 203,393. 14 Claims. (Cl. 210—75.)



1. In combination, a centrifugal extractor, a stationary head at the upper end of the extractor provided with a plurality of discharge outlet openings, a drain board pivotally supported from said head to receive the discharge from one of said outlet openings and adapted for lateral swinging movement to be positioned over a receptacle or receptacles, and a pan rotatable in said head adapted to receive water discharged from said extractor and having a discharge outlet opening adapted to be selectively positioned over one or the other of the openings in said head, whereby to discharge water from said head at different points.

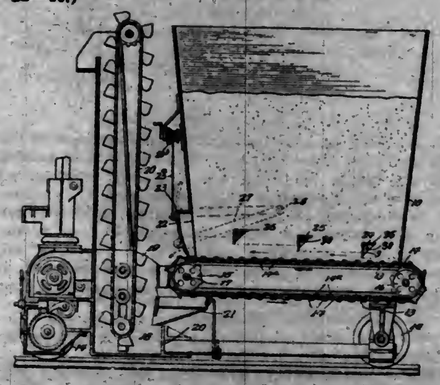
1,752,548. REGULATING APPARATUS FOR OIL BURNERS. ARTHUR J. BAIRD, Portland, Oreg., assignor, by direct and mesne assignments, to Baird Automatic Pre-Heater Co., a Corporation of Oregon. Filed Oct. 27, 1927. Serial No. 229,149. Renewed Aug. 24, 1929. 5 Claims. (Cl. 126—271.)

1. A fuel oil heater for oil burners comprising a casing having a chamber through which the fuel oil passes to the burner nozzle, a steam heating coil in said chamber, a thermostatically controlled switch subject to the tempera-



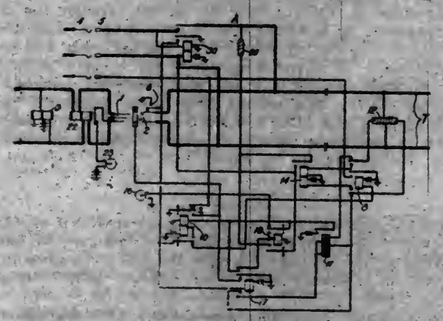
ture of the fuel in said chamber, and an electric heater in said chamber connected electrically in series with said switch.

1,752,549. SAND-FEEDING MECHANISM FOR MOLDING MACHINES. ELMER O. BEARDSLEY and WALTER F. PIPER, Chicago, Ill., assignors to The Beardsley & Piper Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 19, 1928. Serial No. 313,619. 9 Claims. (Cl. 22—40.)



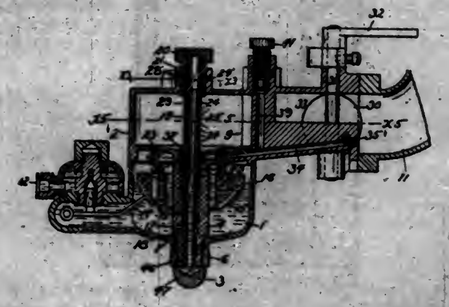
1. In sand feeding mechanism, the combination of a reservoir having an open bottom and a discharge opening adjacent the bottom and at one end thereof, an endless conveyor at the bottom of the reservoir, for discharging sand through said opening, mechanism for driving the conveyor, and a series of baffles extending across the interior of the reservoir, said baffles being progressively spaced from the conveyor so as to retard the sand above consecutive portions of the conveyor in different quantities.

1,752,550. TELEPHONE SYSTEM. JOSEPH W. DEHN, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 21, 1927. Serial No. 193,146. 7 Claims. (Cl. 179—27.)



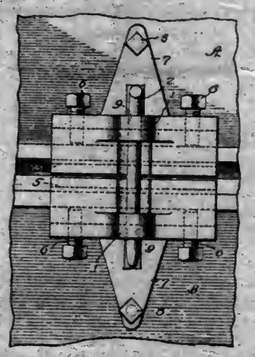
1. In a telephone system, two stations, a line connecting said stations, battery supply at each station, means for supervising a connection established over said line from either station with the battery supply for said supervision furnished from the call originating station which may be either station.

1,752,551. CARBURETOR. ROY FRANCIS ENSIGN and ORVILLE HIRAM ENSIGN, Pasadena, Calif., assignors to Ensign Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed May 19, 1921. Serial No. 470,829. 8 Claims. (Cl. 261—41.)



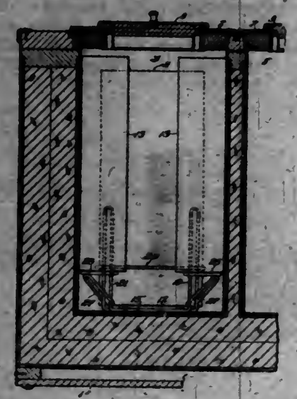
6. The combination of a cylindrical mixing chamber having a tangential air inlet and a tangential mixture outlet; a throttle in said mixture outlet; a constant level fuel chamber below the level of said mixing chamber provided with a well that is supplied with fuel through a submerged orifice; a tube fitted in said well and adapted to open and close said submerged orifice; said well being enlarged at its upper end above the fuel level to form a space around such tube open to the mixing chamber; said space being connected to a point beyond the throttle by a duct; a passage leading from said duct to the atmosphere; and a valve to control said passage.

1,752,552. PIN PLATE FOR MOLDING FLASKS. CLARENCE H. ESTES, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Mar. 30, 1928. Serial No. 265,857. 5 Claims. (Cl. 22—109.)



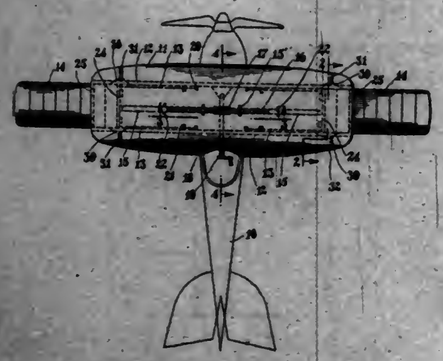
1. A separately formed pin plate for application to a molding flask, said pin plate being constructed with jaws providing between them a receiving space for a portion of a flask upon which the pin plate is to be mounted, and with a tipping bracket extending from said jaws in position to coact with another portion of the flask when the pin plate is applied; said bracket being provided with means for developing a tipping moment of the jaws relatively to the portion of the flask occupying the receiving space.

1,752,553. REFRIGERATION CABINET. HENRY C. FOLSOM, Waltham, Mass., assignor, by mesne assignments, to Waltham System, Inc., Waverley, Mass., a Corporation of Massachusetts. Filed June 17, 1927. Serial No. 199,588. 2 Claims. (Cl. 62—75.)



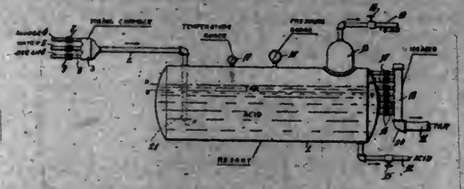
1. A rack for introduction into a refrigerator compartment to support an ice cream can and refrigerating cartridges of triangular prism form, comprising transversely related base members, each adapted to extend between diagonally opposite corners of the compartment, uprights rising from the base members, adjacent to the corners and adapted to receive the can between them, and rests projecting from the uprights toward the corners and adapted to receive the cartridges, said uprights being adapted to hold the cartridges in the corners and spaced from the can.

1,752,554. TAKE-OFF AND LANDING DEVICE FOR AEROPLANES. WILFORD B. GERBRACHT, Ames, Iowa. Filed Aug. 23, 1927. Serial No. 214,852. 1 Claim. (Cl. 244—12.)



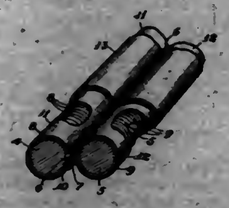
In an airplane, a main wing having transversely disposed spars, said wing having an aperture extending transversely therethrough between said spars, guide members extending transversely of said wing and located at the front and rear ends of the aperture in said wing and secured to said spars so as to have a slight transverse horizontal movement with respect thereto, air foils disposed within the aperture in the wing at the ends of the wing and slidably supported by said guide members for movement longitudinally of said wing, a rack secured to one of said foils and having downwardly disposed rack teeth, a second rack secured to the other of said foils and having upwardly disposed rack teeth, said racks being in vertical alignment and being disposed in the upper and lower portions respectively of said apertures and extending inwardly to the center of said wing, a pinion disposed midway between said rack bars and engaging the teeth of both of them for simultaneously extending and retracting said air foils, and springs mounted on said spars and pressing said guide members against said foils so as to hold said foils in position by friction.

1,752,555. PROCESS OF CONTINUOUSLY HYDROLYZING ACID SLUDGE. RALPH A. HALLORAN, Berkeley, WILLIAM N. DAVIS, Oakland, and GEORGE A. DAVIDSON, Berkeley, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Nov. 15, 1926. Serial No. 148,486. 4 Claims. (Cl. 23—173.)



1. A process of hydrolysing acid sludge obtained in the acid treatment of petroleum oil, which consists in passing said acid sludge and water into a chamber wherein the materials are maintained at a hydrolysing temperature and withdrawing the produced separated acid and tar from said chamber, a volume of separated acid in the chamber being maintained sufficiently in excess of the volume of separated tar so that the acid is subjected to hydrolysing temperature for a substantially greater period of time than the tar.

1,752,556. MAGNETIC LOADING FOR TWIN CONDUCTORS. WALTON HARRISON, New York, N. Y. Filed July 14, 1923. Serial No. 651,572. 15 Claims. (Cl. 178—45.)



1. The combination, with a pair of continuous twin conductors in which a flow of current through one is accompanied by a similar flow of current in the opposite direction through the other, of a pair of twin loading strips made of magnetic material, one of said loading strips being disposed adjacent each conductor and magnetized thereby, said loading strips being electrically insulated from each other and located sufficiently near each other to permit the passage of magnetic flux from one of said loading strips to the other.

1,752,557. CEMENT AND PROCESS OF MAKING SAME. LEON J. D. HEALY, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1925. Serial No. 8,936. 5 Claims. (Cl. 87—17.)

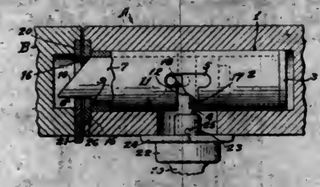
2. A cement comprising substantially 12% degradated crepe rubber, substantially 87.5% rubber solvent and substantially .5% colophony.

1,752,558. BRICK-WALL CONSTRUCTION. WILLIAM C. HECKEROTH, Erie, Pa., assignor to Erie City Iron Works, Erie, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1924. Serial No. 689,657. 8 Claims. (Cl. 72—102.)



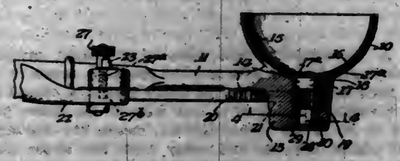
1. In a brick wall construction, the combination of two wall sections; two blocks in one wall section having opposing lips on the blocks inwardly faced with the blocks in place forming an undercut channel; and a block in the opposing wall having outwardly and opposingly faced lips interlocking with the lips forming the channel.

1,752,559. CUPBOARD LATCH. CHARLES BOSTICK HURD, Santa Ana, Calif. Filed Apr. 21, 1927. Serial No. 185,500. 3 Claims. (Cl. 292—169.)



1. A latch comprising a cylindrical tubular casing having a bayonet slot, a substantially cylindrical bolt slidably mounted in the casing, and having a notch in its side and a cutaway intersecting the notch, a shank for extension into said cut-away, a pin carried by the shank for engagement in said notch; and a spring for normally holding the bolt to a position seating said pin in the bayonet slot.

1,752,560. ICE-CREAM DISHER. THOMAS JAMESON, Newark, N. J., assignor to The Gilchrist Company, Newark, N. J., a Corporation of New Jersey. Filed Feb. 1, 1926. Serial No. 85,154. 9 Claims. (Cl. 107—48.)



1. In an ice-cream disher, the combination of a bowl, a handle for the bowl, a scraper mounted to rotate in the bowl, means for rotating the scraper in the bowl comprising a finger lever adjacent the handle, means for shifting the scraper axially away from the bowl during rotation thereof in one direction, and means for positively returning the scraper to the bowl during rotation thereof in the opposite direction.

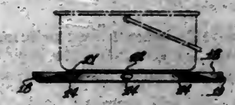
1,752,561. PROCESS OF PRODUCING INSULATING SHEETS. RUDOLF KARÉ and JOSEF WEISS, Lucerne, Switzerland. Filed Sept. 27, 1927, Serial No. 222,803, and in Switzerland Oct. 4, 1926. 2 Claims. (Cl. 92—21.)

1. A process for producing insulating sheets, which consists in placing a vegetable fibre in a solution of kieserite and magnesite and causing said fibre to take up a proportion of the solution, removing the fibre from the



solution and draining therefrom any surplus solution, and molding the sheet from the so treated fibre in a mold perforated to permit evaporation of the moisture in the fibre.

1,752,562. SAFETY STAND FOR USE WITH GAS STOVES. SAMUEL M. KASS, Philadelphia, Pa. Filed May 23, 1928. Serial No. 279,914. 3 Claims. (Cl. 126—215.)



1. A safety device for supporting a pot above a gas burner, shielding the burner from any liquid boiling over from the pot, comprising an upwardly converging hollow truncated cone having a catch gutter around its base, upward indentations at circumferential intervals around the top of the cone adapted to engage the bottom of a pot supported upon the device and supporting strips across the cone at the middle with openings between the strips.

1,752,563. PENCIL TIP. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Apr. 27, 1925. Serial No. 26,122. 5 Claims. (Cl. 120—18.)

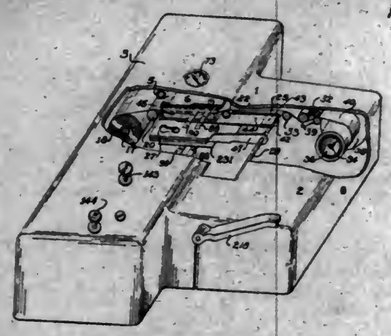


3. A pencil tip including a core member adapted to receive a thin shell-like facing tip portion to rigidly support the same, the tip portion covering the core member, having a different outer face metal than the core member and an annular shoulder on said core member over which said facing engages.

1,752,564. MEANS FOR RECORDING TIME AND PERIOD VALUES. WILLIAM J. LOVE, Jr., Piqua, Ohio, assignor of one-fifth to Ralph W. Carnahan, Dayton, Ohio. Filed Nov. 6, 1924. Serial No. 748,165. 2 Claims. (Cl. 234—41.)

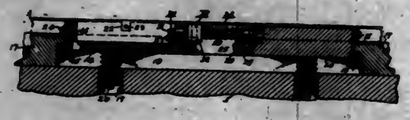
1. In a device of the type described, a printing member bearing characters lineally arranged thereon, an end-

less band movable during part of its travel adjacent said printing member, an indicator carried by said band past said characters, means for intermittently moving said



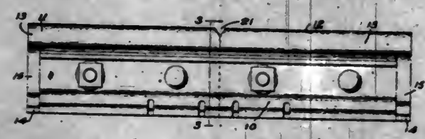
band, a tape movable beneath said printing member, and mechanical means for advancing the tape to and from a printing position thereunder for the purpose specified.

1,752,565. EDITION-PRINTING-SLUG HOLDER AND DEPRESSIBLE MARGIN BAR. FREDERICK LAMATSCH, Grantwood, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 5, 1925. Serial No. 6,936. 3 Claims. (Cl. 101—374.)



1. In a printing machine, the combination of a cylinder, a margin bar in the cylinder wall, a longitudinal recess in the bar, a printing slug in the recess having an opening, a groove in the bar registering with the opening, and means for locking the slug in the recess.

1,752,566. RAIL JOINT. ARCHIE W. MCCLARY, Oakland, Calif., assignor to Welding Service Inc., San Francisco, Calif., a Corporation of California. Filed Dec. 10, 1928. Serial No. 324,856. 8 Claims. (Cl. 238—150.)



1. A rail joint comprising a pair of rails having abutting ends, said rails having ball and web portions, and means for securing said rails together, the end faces of the ball portions of said rails being cut away near their upper edges, the remaining faces of said ball portions being in abutting contact when the rails are fully expanded.

1,752,567. METHOD OF CUTTING LAMINATED GLASS. PETER A. MCCULLOUGH, Pittsburgh, Pa. Filed Oct. 2, 1928. Serial No. 309,898. 5 Claims. (Cl. 49—48.)

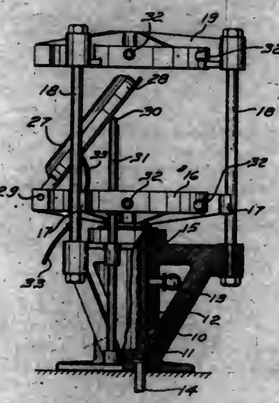
5. The method of cutting sized pieces from laminated glass formed from a plurality of layers of glass having a flexible binder interposed between adjacent surfaces, comprising forming scored lines of weakness on the outer surface of a sheet of said glass, cooling said glass to render said binder brittle, and while cooled breaking the glass along said lines of weakness.

1,752,568. DRUM. JULIUS A. MEYER, St. Louis, Mo. Filed Aug. 25, 1927. Serial No. 215,461. 3 Claims. (Cl. 84—411.)



1. A drum comprising a shell having an enlarged intermediate portion to serve as a resonating chamber, heads stretched over the margins of the shell, counter-hoops engaging the margins of the heads, a plurality of tension screws carried by the counter-hoops, and a sectional reinforcing ring within the resonating chamber for receiving the tension screws.

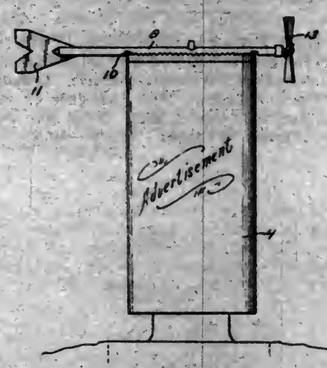
1,752,569. VULCANIZING PRESS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 31, 1927. Serial No. 195,494. 2 Claims. (Cl. 18—19.)



1. A vulcanizing press comprising heated horizontal platens each formed with a mold receiving recess, a mold half fixed in the recess of the upper platen, a second mold half pivotally connected at one side to the lower platen so as to lie in the recess thereof, means for moving the lower platen towards and away from the upper platen, fixed rods passing through the lower platen, and rolls secured on the rods and bearing against the lower mold half at a point remote from the pivot whereby the lower mold half will be tilted from a horizontal towards a vertical position as the lower platen descends.

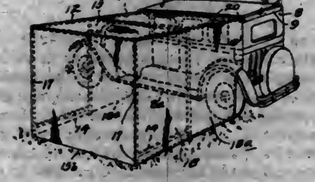
1,752,570. ADVERTISING APPARATUS. JAMES C. MITCHELL, Joplin, Mo., assignor to C. E. Russell, Joplin, Mo. Filed Aug. 17, 1928. Serial No. 300,317. 1 Claim. (Cl. 40—39.)

An advertising apparatus comprising a support, a hollow rotary member mounted on and turnable about the support and having a flange of annular form at its upper end, means on the support and bearing against the inner side of the hollow rotary member to prevent deflection of the latter, a pivot post carried by the support and extending upwardly through the rotary member, a diametrically disposed member arranged above the rotary member and supported by and turnable about said post, and having a vane at one end and also having kerfs enabling it to clear the flange of the rotary member, a shaft journaled in the op-



posite end portion of said diametrically disposed member and extending from said member, a windwheel fixed to said shaft, and a wheel also fixed to the shaft and engaging with the flange of the rotary member.

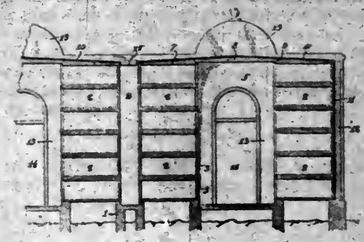
1,752,571. AUTOMOBILE CAMP SHELTER. NICHOLAY J. NORMAN OLSON, Minneapolis, Minn. Filed Sept. 14, 1927. Serial No. 219,447. 6 Claims. (Cl. 135—4.)



1. In combination with an automobile, structure of the class described comprising a frame section having a connection with the top of the automobile for disposition in said top and for projection from one side thereof, another frame section hinged at said first mentioned frame section along one of its edges and foldable thereagainst, a pair of oppositely foldable side sections hinged to said last mentioned frame section along the sides adjacent said hinged edge, said side sections being foldable within said last mentioned section, foldable wall material connected to said first mentioned frame section and being adapted to cover the top of the structure and the space at the rear between said side sections, and foldable wall material covering the sides of the frame structure, said frame sections and side sections together with said wall material being compactly foldable into a relatively thin bundle connected with the top of the automobile and adapted to be carried thereupon.

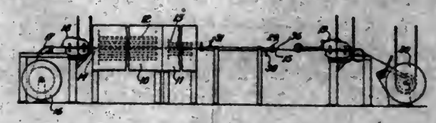
1,752,572. MAUSOLEUM CONSTRUCTION. HARRY J. PERSON, Lansing, Mich., assignor to Harry J. Person & Son Incorporated, Lansing, Mich., a Corporation of Michigan. Filed Dec. 8, 1927. Serial No. 238,492. 4 Claims. (Cl. 72—7.)

1. A structure including spaced apart walls formed entirely of separate hollow units for the reception of human bodies, said walls forming side walls extending from end to end of the structure and a corridor therebetween, the upper surface of said upper units being inclined laterally of each wall, a roof member covering said corridor and supported directly upon the upper units of



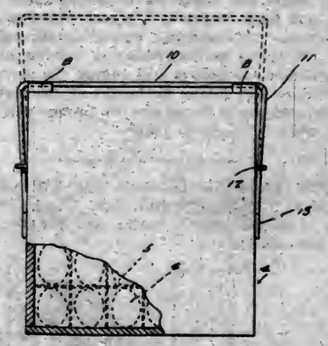
said walls, and a facade structure adjacent to and supported independently of the ends of said walls formed by said hollow units and provided with an entrance to said corridor.

1,752,573. APPARATUS FOR HEAT-TREATING METALS. HARRY DENTON PIPER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1922, Serial No. 600,864. Renewed July 28, 1927. 9 Claims. (Cl. 266—3.)



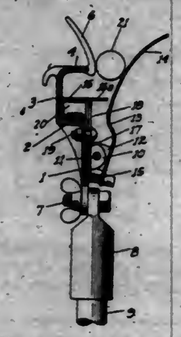
1. An apparatus for processing material subsequent to heat treatment comprising inner and outer receptacles, the inner receptacle supporting and physically engaging the material for substantially the entire length of the receptacle, a heat conducting metallic member within the inner receptacle also engaging the material, and a cooling fluid in the outer receptacle for conducting the heat from said inner receptacle and said metallic element as received from said material.

1,752,574. EGG CARRIER. CLARENCE L. RICE, Delta, Iowa. Filed Apr. 27, 1928. Serial No. 273,312. 1 Claim. (Cl. 217—36.)



An egg carrier comprising a box like container open at its top, a removable cover fitting down between the side walls of the container, transverse cleats carried by the outer surface of said cover and having their end portions extending beyond the edges of the cover and resting upon the upper edges of the side walls of the container, said cleats being further provided with transverse notches formed thereon intermediate the ends of the cleats together with a substantially U-shaped bail, the downturned end portions of which are slidably engaged with the container and whose bight portion is receivable in said notches.

1,752,575. FUSE-HANDLING TOOL. FREDRICK H. ROSELLE, Turlock, Calif. Filed Dec. 17, 1927. Serial No. 240,839. 6 Claims. (Cl. 81—3.8.)



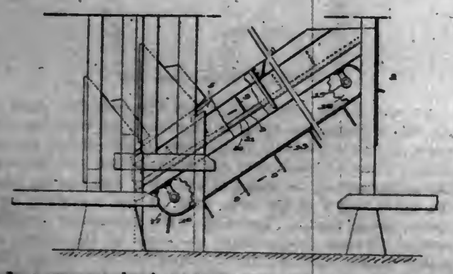
1. A fuse handling tool comprising a body member having a horizontal recess in one side to receive a fuse, a plate in the recess spaced from and parallel to the upper wall thereof, spring means pressing said plate toward the said upper wall, and means for initially engaging a fuse on opposite sides thereof to guide the same toward the open side of the recess.

1,752,576. MOSS FEEDER AND CLEANER. JOHN W. ROSSON, Morgan City, La. Filed Mar. 11, 1929. Serial No. 346,235. 8 Claims. (Cl. 19—66.)



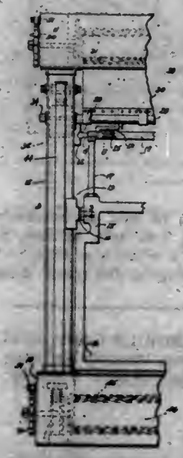
1. A device of the class described comprising a casing, a slotted partition therein, means for feeding the material to be treated into the front end of the casing under the partition, an outlet at the other end of the casing, a slatted frame slidably supported under the partition and receiving the material introduced into the casing, means for oscillating the frame, a frame supported for oscillatory movement in upper and lower planes in the upper part of the casing, said frame carrying a plurality of rows of prongs, with portions of the frame extending through the slots in the partitions as the frame is moving on its lower plane whereby the prongs will engage the material on the slatted frame and means for actuating the prong carrying frame whereby said frame and its prongs will move rearwardly when in its lower plane.

1,752,577. FEEDING DEVICE FOR THRASHING MACHINES. FRANK PITTIS RYDER, Niagara Falls, N. Y. Filed July 20, 1928. Serial No. 294,207. 1 Claim. (Cl. 198—168.)



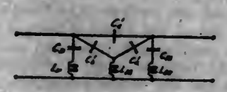
In a conveyor having a bottom plate provided with slots and conveyor arms movable in said slots, upwardly extending guards arranged along the edges of the slots consisting of angle irons having their vertical flanges extending upward along the edges of the slots and their horizontal flanges secured to the bottom plate.

1,752,578. DEVICE FOR PROTECTION OF GOODS DISPLAYED IN SHOW WINDOWS AGAINST THEFT. MAX D. SCHNEYER, Windsor, Ontario, Canada, and SOLOMON COCHIN, Detroit, Mich., assignor of one-third to Nathan Shifrin, Fordson, Mich. Filed Mar. 24, 1928. Serial No. 264,491. 2 Claims. (Cl. 20—40.4.)



1. Means for protecting wares displayed in display windows against removal through breaches in the latter, said means comprising a frame adapted to be mounted behind the glass of said window and comprising hollow cross members at the top and bottom thereof, hollow side members therefor and a second frame supported by and movable in the first frame, transparent material in said second frame, a metal curtain normally concealed in one of said hollow cross members, means carried by the outer frame tending normally to extend said curtain to cover the area included within said first frame, and means releasable by movement of said second frame to release said extending means to permit said curtain to be extended over said area.

1,752,579. WAVE FILTER. TIMOTHY E. SHEA, Rutherford, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1926. Serial No. 91,219. 1 Claim. (Cl. 178—44.)

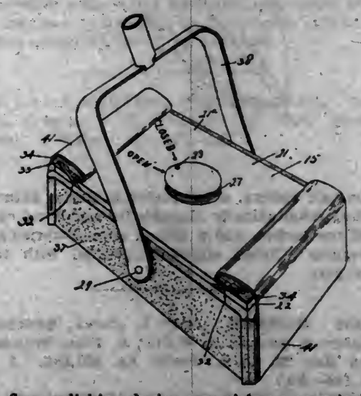


A wave filter network having a pair of input terminals, a pair of output terminals, and two line paths therebetween, said network including three inductive impedance paths arranged in shunt relation to said line paths, a delta connected group of three capacities included in one line path each terminal of said group being connected respectively to one of said shunt impedances, and said network being electrically equivalent to a prototype wave filter network comprising three filter sections of series-shunt type which are dissimilar to each other in their structure and transmission characteristics.

1,752,580. MOLDING COMPOUND AND ITS METHOD OF PRODUCTION. HARRY STERLING SNELL, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Nov. 8, 1924, Serial No. 748,525. Divided and this application filed Feb. 28, 1927. Serial No. 171,724. 12 Claims. (Cl. 106—38.)

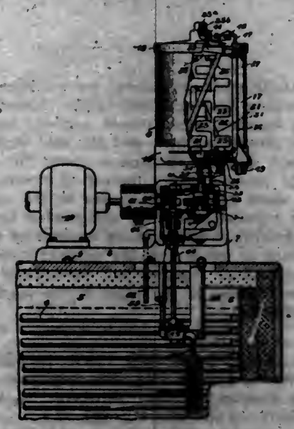
2. A method of producing a molding compound which consists in precipitating simultaneously and jointly by a common precipitant a water insoluble caseinate and an insoluble salt capable of waterproofing the compound, washing and drying the precipitate, and adding furfural to the dried product.

1,752,581. FLOOR WAXING AND POLISHING DEVICE. ALOIS F. STEIBT and OSCAR W. LINKE, Philadelphia, Pa., assignors to S. L. Products Company, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 6, 1925. Serial No. 67,243. 11 Claims. (Cl. 91—39.)



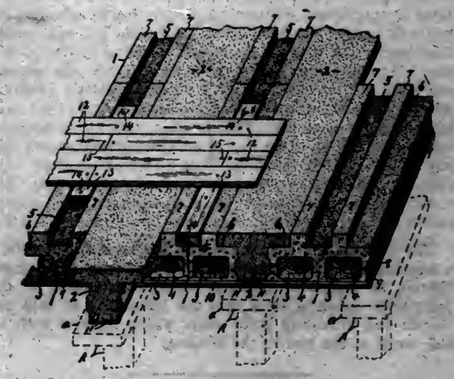
1. A floor polishing device comprising a receptacle having a discharge port, applicators resiliently held against a side of said receptacle, and a strip of material covering the working faces of said applicators and portions of the receptacle with the ends of said strip clamped between the applicators and the coacting face of the receptacle.

1,752,582. ICE-CREAM FREEZER. CHARLES TAYLOR, Buffalo, N. Y., assignor to Taylor Freezer Corporation, Beloit, Wis., a Corporation of Delaware. Filed Dec. 16, 1926. Serial No. 155,281. 11 Claims. (Cl. 259—102.)



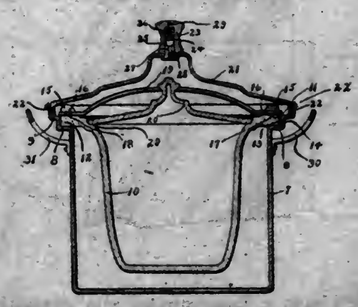
1. An ice cream freezer having a freezing chamber, a dasher frame therein comprising upper and lower heads and connecting bars, means connected to the lower of said heads for rotating said dasher frame, beater shafts journaled in said heads, the upper of said heads providing an enclosed gear case, a fixed pinion mounted in said gear case in non-rotatable relation to said chamber, pinions mounted on said beater shafts and in mesh with said fixed pinion and beater blades on said shafts arranged in staggered relation and adapted for rotation across the center line of the chamber.

1,752,583. BUILDING FLOOR. GORDON A. WRIGHT, Syracuse, N. Y. Filed Jan. 3, 1928. Serial No. 244,194. 4 Claims. (Cl. 72—66.)



2. In a composite flooring, a substantially rectangular concrete block elongated in one direction and having its upper longitudinal corners rabbeted from end to end and its intermediate portion provided with a lengthwise channel parallel with the rabbets, said block having interior lengthwise chambers extending laterally under portions of the channel and rabbets, and a partition directly under the channel and separating said chambers.

1,752,584. STEAM COOKER. HENRY C. BIETTE, Detroit, Mich., assignor of twenty per cent to John S. Langtin, Wyandotte, Mich. Filed Nov. 21, 1927. Serial No. 234,675. 1 Claim. (Cl. 53—1.)



A steam cooker of the class described, comprising: an outer container; a pair of outwardly projecting superimposed shoulder forming flanges on said container; an inner container adapted for positioning in said outer container; lugs on said inner container engaging the lowermost of said shoulder forming flanges and retaining said inner container in spaced relation to said outer container,

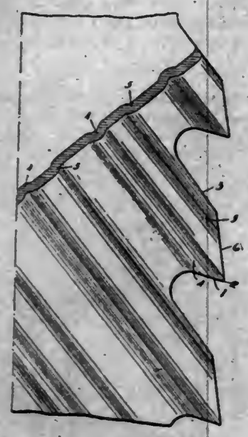
the outer edges of said lugs being curved to conform to the curvature of said outer container surrounding the same; an upwardly projecting portion on the outer end of each of said lugs and provided with a passage extending therethrough; a bail; angularly turned ends on said bail, said ends being adapted for removably engaging in said passages.

1,752,585. CORD FASTENER. HARRY I. BEARDSLEY, Chatham, and HARRY R. CLARKE, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1926. Serial No. 98,644. 1 Claim. (Cl. 173—322.)



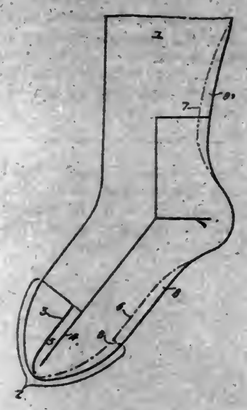
The combination with a housing having a slot therein of a bushing surrounding an insulated conductor and secured thereto by means of crimped portions extending at diametrically opposite sides into the insulation of said conductor and providing guide ways which register with the side walls of the slot in the housing.

1,752,586. SAW BLADE. ERIK AUGUST BOLINDER, Stockholm, Sweden. Filed Oct. 8, 1928, Serial No. 311,207, and in Sweden Feb. 25, 1928. 3 Claims. (Cl. 143—133.)



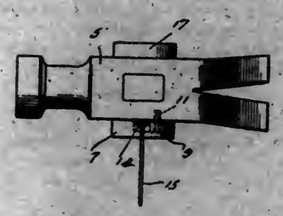
1. In a saw, a blade provided with corrugations extending across the blade throughout the width thereof, at least two of such corrugations extending to the lateral surfaces of each tooth of the blade between the point of the tooth and the rear edge thereof, so that the corrugations will impart to each tooth a rigidness laterally that even with thin saw blades the setting of the teeth will remain against the influence of lateral pressure acting on the teeth.

1,752,587. STOCKING. WALTER D. BUTZ, Norristown, Pa., assignor of one-half to Louis N. D. Williams, Elkins Park, Pa. Filed Jan. 17, 1928, Serial No. 247,412. Renewed Mar. 16, 1929. 9 Claims. (Cl. 66—180.)



1. In knit hosiery, a toe pocket having a natural gore extending longitudinally through its center on each side of said toe pocket, and a second gore comprising a line of irregular stitches extending parallel with the said natural gore.

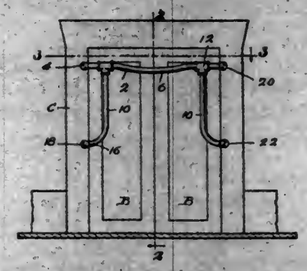
1,752,588. HAMMER. JOHN L. CLARK, Scottdale, Pa., assignor of one-half to Walter A. Yobo, Scottdale, Pa. Filed May 29, 1928. Serial No. 281,540. 3 Claims. (Cl. 145—30.)



1. A nail gripping attachment for hammers at one side of the striking face and rearwardly thereof, comprising a pivoted segment, a stationary segment interposed between the pivoted segment and the said striking face of the hammer whereby to form a guard for the pivoted segment to prevent injury thereof by accidental contact with the work during normal use of the hammer, said stationary segment having its edge nearest the said striking face rounded to deflect blows received by the segment, spring means at one end of the segment yieldably urging their opposite ends together and cooperating nail receiving grooves formed in the edges of the segment at said last named ends.

1,752,589. HANDRAIL FOR FIRE ESCAPES. RALPH W. DOWNES, Kansas City, Mo., assignor to Nate W. Downes, Kansas City, Mo. Filed Apr. 17, 1929. Serial No. 355,919. 5 Claims. (Cl. 227—7.)

5. In combination with a fire escape having an entrance thereto, a hand rail extending across said entrance and which is bent backwardly near its ends and secured to the opposite sides of the entrance, and two hand rails secured



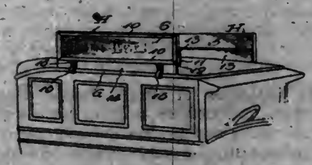
at their upper ends to the first-mentioned hand rail and which are bent backwardly at their lower portions and secured to opposite sides of the entrance.

1,752,590. MAGNETO CONTACT PLUG. THOMAS DUFLO, Croghan, N. Y. Filed Jan. 29, 1927. Serial No. 164,500. 1 Claim. (Cl. 173—324.)



In a magneto contact, a coil spring rigidly supported at one end and having its other end yieldingly held against the magneto lead, the helices adjacent the contact end of the coil being rigidly connected to each other by a covering of insulating material leaving the contact point free from insulation.

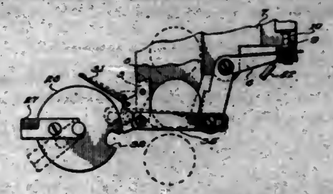
1,752,591. SIGN HOLDER FOR AUTOMOBILE BODIES. ARTHUR H. ELLIS, Rochester, Minn. Filed Apr. 14, 1928. Serial No. 269,995. 2 Claims. (Cl. 40—125.)



1. A device of the character described comprising a sign having a horisontally elongated supporting flange substantially co-extensive in length therewith and projecting downwardly for reception throughout its length in a gutter along a longitudinal edge of a vehicle top, the lower edge of said flange being adapted to engage and rest on the bottom of the gutter, and clamping means connected with and disposed at the outer side of said flange for coaction therewith in clamping said flange to the outer side wall of the gutter, said clamping means projecting downwardly below said flange and being curved to hook under the gutter, holding the entire device against upward shifting.

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1,752,592. COIN-CONTROLLED SWITCH-OPERATING MECHANISM. ROY O. GILBURG, Wausau, Wis., assignor to Marathon Electric Mfg. Co., Wausau, Wis., a Corporation of Wisconsin. Filed Oct. 17, 1928. Serial No. 313,050. 4 Claims. (Cl. 194—9.)



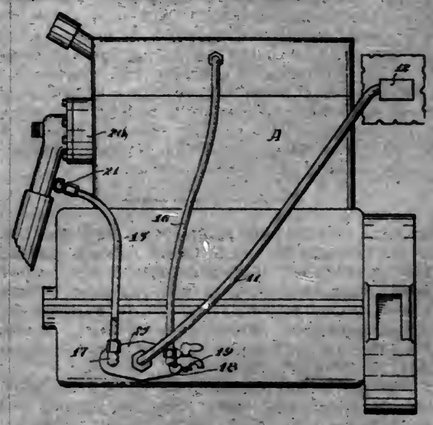
1. In a coin-controlled switch-operating mechanism of the class described, an electric circuit comprising a main switch and an auxiliary switch shunted across the terminals of the latter, a timing mechanism for periodically opening the main switch, actuating mechanism for said auxiliary switch, comprising a lever susceptible to movement by the weight of a coin for closing said circuit independently of said main switch, and means operable by said timing mechanism for releasing a coin from engagement with the latter, a link connected to said means and lever respectively for opening said auxiliary switch, said circuit being retained closed thereafter by said main switch for effecting continued rotation of said timing mechanism and resetting of said coin releasing means.

1,752,593. TILE-ROOF CLOSURE. JOHN GIORDANO, San Francisco, Calif. Filed June 30, 1928. Serial No. 289,442. 3 Claims. (Cl. 108—1.)



1. In combination with a tile roof, a closure plate for an open end thereof having a base plate resiliently fastened to the bottom edge, so as to allow the closure plate to be partly collapsed upon the base plate for insertion into the opening and to automatically rise into active position after insertion.

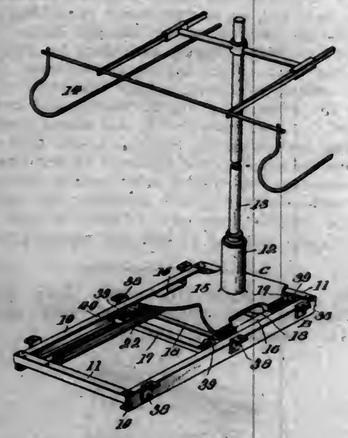
1,752,594. CRANK-CASE HEATER. THOMAS P. HANNIGAN, St. Paul, Minn. Filed Apr. 18, 1929. Serial No. 356,157. 4 Claims. (Cl. 219—38.)



1. A device of the character described, comprising a container mounted in the crank case of an internal combus-

tion motor, a pair of water outlets from said container passing through the wall of said container, sealing means surrounding said outlets and engaging the crank case wall to form a water and oil tight seal therewith, and a pair of tubes from said outlets connected to the water circulating system of said motor.

1,752,595. DISPLAY RACK. WILLIAM T. HORMES, Baltimore, Md. Filed Aug. 23, 1928. Serial No. 301,637. 5 Claims. (Cl. 312—133.)

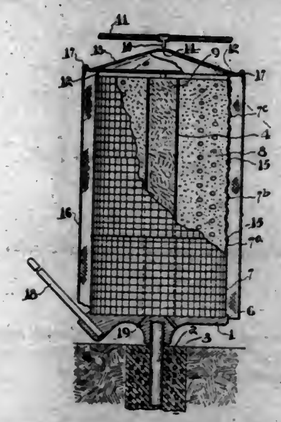


1. A display rack of the character described comprising a reciprocably mounted carriage, a rotatable rack supporting shaft carried thereby, a notched locking disk rotatable with said shaft, a rigidly supported control bar extending parallel with the line of reciprocation of said carriage, a lever pivotally supported by said carriage, a roller concentric with the pivot of said lever and engaging said control bar, a control member on one end of said lever also engaging said control bar, a locking member carried by said lever, means for yieldably holding said locking member in engagement with the periphery of said disk so that it will enter either notch thereof when in register therewith to prevent rotation of said shaft, said control bar having cutaway portions located in predetermined positions with respect to the movement of the carriage, so that while said locking member and said control member are in register with said cutout portions, said lever may be rocked by rotating said disk, said lever being held against pivotal movement at all other times by said control member.

1,752,596. PROCESS OF REPLACING THE WATER IN A WATER-MOIST CELLULOSE BY AN ORGANIC LIQUID AND THE PRODUCT THEREOF. EMIL HUBERT, ALEXANDER RÖST-GRANDE, and ERICH CORRENS, Elberfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Mar. 16, 1927, Serial No. 175,921, and in Germany Mar. 17, 1926. 11 Claims. (Cl. 260—101.)

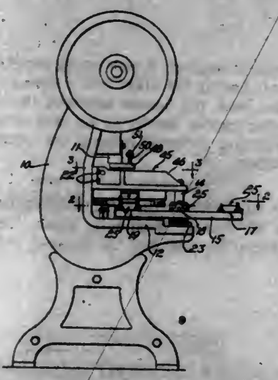
1. The process for impregnating water-moist cellulose with an organic liquid, which comprises pressing water-moist cellulose into a cake and forcing out the water by acting upon said cake with an organic liquid under pressure.

1,752,597. VEGETATIVE DEVICE. MAUNSELL B. JACKSON, Toronto, Ontario, Canada. Filed Apr. 1, 1927. Serial No. 180,301. 2 Claims. (Cl. 47—38.)



1. A vegetative device including turnable means for carrying soil; a cover for protecting the top of the said coil and the plants from the weather elements; and a removable side cover adapted to shield the soil and the young plants from the weather elements.

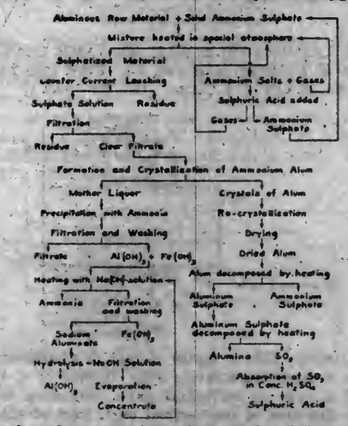
1,752,598. ELECTRIC WELDING. EDMUND NIELS JORGENSEN, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1925. Serial No. 58,247. 11 Claims. (Cl. 219—4.)



1. In an apparatus for simultaneously welding a plurality of parts to a member, a frame for positioning and clamping the parts and the member, an electrical circuit including a plurality of independently operable welding electrodes adapted to engage the parts, means for causing a relative movement between the parts and the electrodes to cause the electrodes to contact with the parts under pressure, and means for distributing the pressure equally upon said parts.

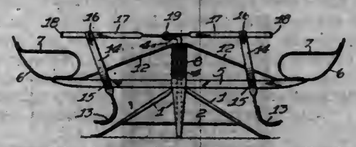
1,752,599. METHOD OF TREATING ALUMINOUS MATERIALS FOR THE PRODUCTION OF ALUMINUM SULPHATE AND ALUMINA THEREFROM. BENGT RAGNAR FRITIOV KJELLGREN, Cleveland, Ohio. Filed Aug. 17, 1925, Serial No. 50,848, and in Sweden June 27, 1925. Renewed July 22, 1929. 19 Claims. (Cl. 23—143.)

11. In the process for production of aluminum compounds the steps of sulphatizing the aluminous raw material with anhydrous ammonium sulphate by heating the mixture in an atmosphere substantially consisting of one or more gases formed by the dissociation of ammonium sulphate and containing substantially no oxygen, and



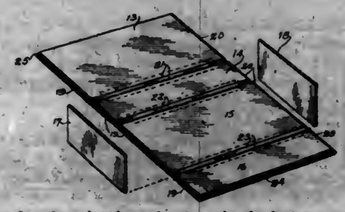
decomposing the ammonium alum produced from the sulphatized material to form aluminum sulphate by heating the alum in an atmosphere substantially consisting of one or more gases formed by the dissociation of ammonium sulphate and containing substantially no oxygen.

1,752,600. ROUNDABOUT. DELL J. LAHAY, Carney, Mich. Filed Mar. 21, 1927. Serial No. 177,101. 2 Claims. (Cl. 272—33.)



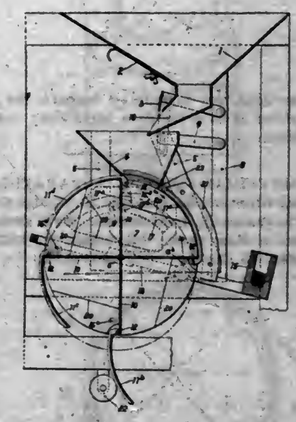
1. A roundabout comprising a base, a vertically extending shaft carried by said base, a crank arm carried by said shaft, a frame having spaced-apart side members, means for joining said side members together, said frame being rotatably mounted upon said shaft, seats disposed between and secured to the side members of said frame, a pair of supporting levers pivotally mounted upon said frame substantially adjacent said seats, the lower ends of said levers being arcuate shaped, footrests secured to the arcuate-shaped portions of said levers, said levers extending inwardly and upwardly from said frame whereby the upper ends of said pairs of levers may be disposed in close proximity to each other, pull rods having their inner ends pivotally connected to said crank arm and their outer ends provided with handle portions, and means for connecting the upper ends of the pairs of levers together and for pivotally securing said pull rods to said pairs of levers.

1,752,601. WOODEN CIGAR BOX. HENRY LEIMAN, Tampa, Fla. Filed May 10, 1928. Serial No. 276,677. 1 Claim. (Cl. 217—2.)



A wooden box having the top, back, bottom and front thereof formed from an unsevered blank, the inner end edges of which are square rabbeted to form seats for the ends of said box, rectangular ends seated in said rabbeted seats, the inner top edge of the front of said box being square rabbeted and the front inner edge of said top being correspondingly rabbeted to make an air tight joint with the top edge of said front when the box is closed whereby when the top, back, bottom and front are folded into assembled relation the ends may be inserted into and removed from their rabbeted seats without disturbing the assembly.

1,752,602. APPARATUS FOR AUTOMATICALLY COUNTING THE VOLUMES OF GRANULOUS MATERIALS PASSING THROUGH THE SAME. ALBERT LETREUX, Constantine, Algeria. Filed July 18, 1927. Serial No. 206,769. 1 Claim. (Cl. 73—187.)



An apparatus for automatically measuring grains comprising in combination, a drum subdivided into several buckets of predetermined volume and having inclined portions in the corners for ensuring the complete filling, a hinged door for each bucket closing a portion of this bucket in leaving the other portion always open, sectors for maintaining said doors closed during a part rotation of the drum, a scale beam on one arm of which said drum is mounted, an adjustable counter weight arranged on the other arm of said scale beam for maintaining said drum in the raised position, a distributing hopper above the open portion of that bucket which is actually in the upper portion of the rotating drum, two frames supporting said distributing hopper and loosely mounted upon journals of said drum, hinged connecting rods supporting said frames in upright position so that they can ascend and descend with said drum, a charging hopper above said distributing hopper and designed to supply material to the latter, a fixed cam having a groove with a steeply inclined branch, rollers fixed on one side of the drum and designed to engage with said cam groove for stopping the drum for the filling of a bucket, a counter mechanism, and an arm operated by each of said rollers and designed to operate said counter mechanism.

1,752,603. BOTTLE CLOSURE. WESLEY W. MASON, Baltimore, Md. Filed Feb. 28, 1929. Serial No. 343,380. 8 Claims. (Cl. 215—45.)

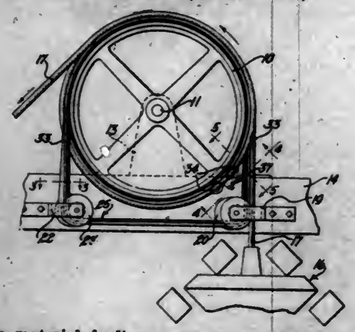
1. A closure for containers comprising a preformed non-resilient flexible covering to seat over the mouth of a container said covering having downwardly extending por-

tions, a non-resilient metallic element attached to and carried by one of said portions and foldable therewith



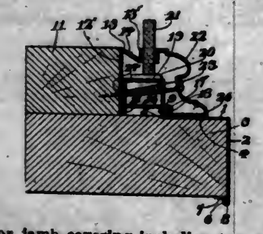
when said portions are contracted beneath the container mouth, the other of said portions completely covering the said attachment.

1,752,604. MATERIAL-FEEDING APPARATUS. HENRY ROGERS MASSINGHAM, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1927. Serial No. 171,584. 13 Claims. (Cl. 254—176.)



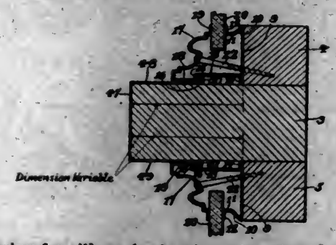
1. In material feeding apparatus, a driving member, a material receiving conveyor, and supporting means therefor of substantially circular cross-section movable with a face of the driving member in the direction of travel of material associated therewith and making a rolling contact with the face of the member in a direction transverse to the movement thereof.

1,752,605. INTERLOCKING SILL OR JAMB COVERING. EDWARD F. MCHUGH, Kingston, Pa. Filed July 24, 1928. Serial No. 294,996. 5 Claims. (Cl. 20—56.4.)



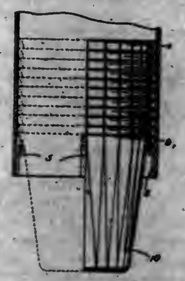
1. A sill or jamb covering including two parts disposed at right angles to each other, one of said parts extending rearwardly from the other and having its rear formed with a flange consisting of a vertical and a forwardly directed horizontal leg providing a horizontally disposed pocket for receiving means to couple the covering with the rear element of a metallic sash.

1,752,606. ADJUSTABLE SILL OR JAMB COVERING. EDWARD F. MCHUGH, Kingston, Pa. Filed July 24, 1928. Serial No. 294,997. 1 Claim. (Cl. 20—56.4.)



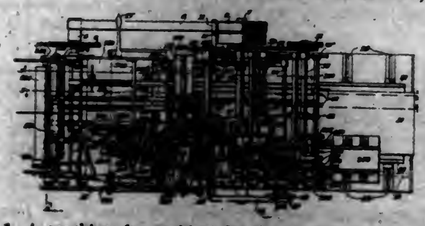
A covering for sills or jambs of varying dimensions comprising a unitary imperforate body formed of a vertical part and a pair of horizontal parts extending at right angles to the ends of the vertical part, each of said horizontal parts having the free end thereof formed with a vertically extending right angularly disposed flange for slidably connecting said body to a pair of metallic sashes connected to a sill or jamb whereby said body can be adjusted to cover sills or jambs of varying dimensions.

1,752,607. DRINKING-CUP DISPENSER. HAROLD A. MILLER, Ottawa, Ontario, Canada. Filed Jan. 21, 1929. Serial No. 333,957. 4 Claims. (Cl. 312—43.)



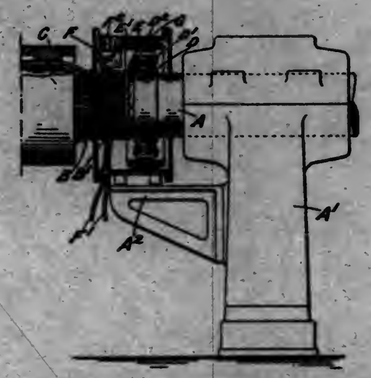
4. A cup dispenser comprising a container, a plurality of rigid retainer members carried in spaced relationship around the inner surface of said container adjacent the discharge end thereof, the upper portion of each of said retainer members providing a resting base for the cups, the said members being provided with inwardly projecting portions contoured to fit the outer surfaces of the lips of the cups to be dispensed.

1,752,608. ENVELOPE MACHINE. ALBERT OLGAY, Glen Ellyn, Ill., assignor to Gaw-O'Hara Envelope Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1926. Serial No. 91,905. 73 Claims. (Cl. 93—61.)



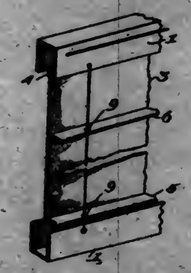
1. A machine for making double envelopes comprising in combination, means for feeding major and minor envelope blanks in substantially parallel paths for a part of their travel to a predetermined position, and means at said position for combining said blanks to form a double envelope.

1,752,609. THERMOELECTRICALLY-OPERATED DEVICE FOR THE PROTECTION OF ROTARY DYNAMO-ELECTRIC MACHINES. HERBERT BRYAN POWDRILL, Newcastle-upon-Tyne, England, assignor to Electrical Improvements Limited, Newcastle-upon-Tyne, England, a Company of Great Britain. Filed Dec. 12, 1928, Serial No. 325,574, and in Great Britain Jan. 3, 1928. 4 Claims. (Cl. 171—252.)



1. In a thermo-electrically-operated device for the protection of a rotary dynamo electric machine, the combination with the rotor of the machine, of thermocouples rotating therewith, a coil also rotating therewith and in electrical connection with said thermocouples and forming an inducing winding, and a fixed coil forming a winding in inductive relationship with said rotating coil.

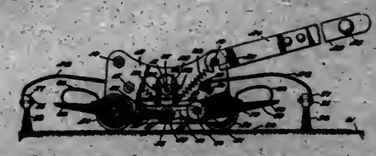
1,752,610. AWNING OR CURTAIN. WALKER B. MCSPADDEN, Fort Collins, Colo., assignor of one-half to Henry K. Mayer, Fort Collins, Colo. Filed Nov. 28, 1928. Serial No. 322,419. 14 Claims. (Cl. 156—16.)



5. In a device of the class described, the combination of a curtain, double folded slats on said curtain with double folds of the curtain in each slat, and means for lifting the curtain.

1,752,611. THREAD CUTTER. THEODORE F. NAUMANN, Pawtucket, R. I., assignor to Seekonk Lace Company, a Corporation of Rhode Island. Filed Apr. 27, 1929. Serial No. 358,668. 13 Claims. (Cl. 26—11.)

1. A portable self-contained apparatus for cutting bridge threads, embodying a frame mounted for longitudinal reciprocation comprising sides and cross bars, a pivot shaft supported in the sides, nonfrictional means for supporting the sides, a plurality of forwardly directed



arms upon the shaft, rearwardly directed arms upon the shaft, and longitudinally disposed upright cutting blades fixed to the ends of all the arms.

1,752,612. ELEVATOR LEG. ROBERT J. OWENS and JOHN L. OWENS, Minneapolis, Minn. Filed Apr. 20, 1929. Serial No. 356,641. 1 Claim. (Cl. 198—206.)



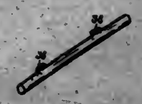
A device of the class described comprising a casing, and a sheet metal partition dividing the casing into upper and lower compartments and having formed therein longitudinally extended corrugations affording rails on which the flights of an endless conveyor travel during their return movement, said rails being laterally spaced to leave a passageway for the belt of the conveyor, and of such height as to hold said belt out of contact with the partition.

1,752,613. SWITCH LOCK. VLADIMIR V. PROFFEN, Seattle, Wash. Filed May 6, 1929. Serial No. 360,842. 4 Claims. (Cl. 70—14.)



1. A device of the class described comprising a jaw, a pair of bars extending from the jaw, a casing, said bars being slidably mounted in the casing, said casing having a wall forming a jaw, pawls in the casing, ratchet teeth on the bar, means normally urging the pawls into engagement with the ratchet teeth, said pawls having spring shanks, means for anchoring the spring shanks in the casing, a slide, key actuated means for moving the slide, frames on the shank, arms extending from the slide, and having fingers engaged in the frames so that movement of the bars will cause disengagement of the pawls from the ratchet teeth.

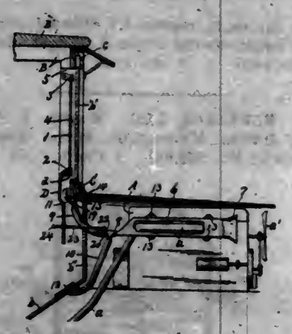
1,752,614. DEVICE FOR HOLDING PRINTED MATTER. ARTHUR ANSGAR RING, Montreal, Quebec, Canada. Filed Dec. 12, 1927. Serial No. 239,482. 3 Claims. (Cl. 40—86.)



1. A device for displaying a strip of printed matter, comprising a casing having a vision opening therein

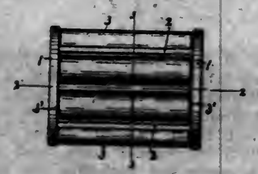
through which the printed matter on said strip may be viewed; rotatably mounted spools on which said strip is wound; guide rods over which said strip is trained and spurs carried on said rods to properly align said strip in registration relative to said opening.

1,752,615. WINDSHIELD CLEANER AND HEATER. HAROLD C. ROOF, Adams Center, N. Y. Filed Jan. 24, 1928. Serial No. 249,024. 3 Claims. (Cl. 20—40.5.)



1. In a device for supplying heated air to windshield plates of motor vehicles, the combination with a transparent windshield plate, an extra transparent plate across the rear face of the windshield plate in spaced relation thereto to form an intervening chamber, said extra plate having its upper and lower longitudinal edges spaced from the windshield plate to form an inlet and an outlet opening for said chamber, said openings extending substantially the full length of the extra plate, a distributing head extending approximately the full length of the extra plate positioned in a plane below the lower edge thereof and provided with an opening in its upper surface extending from end to end for discharging heated air through said chamber, and means for introducing a heating medium into said head.

1,752,616. ROLLER BEARING. BERNARD A. RYAN, Syracuse, N. Y. Filed Apr. 26, 1926. Serial No. 104,709. 1 Claim. (Cl. 308—217.)

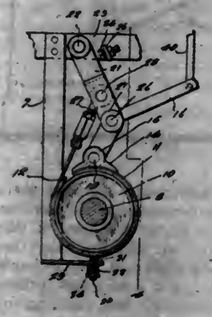


In a roller bearing of the character described, the combination with a plurality of rollers arranged in uniformly spaced relation circumferentially about an axis and having their opposite ends reduced to form cylindrical supporting members or trunnions, of a pair of axially spaced coaxial end rings continuous throughout their circumferential lengths, annular channels in their inner ends for receiving the reduced cylindrical end portions of the rollers for supporting said rollers, the outer ends of said rings being provided with relatively small rectangular radially disposed openings therethrough midway between the inner and outer peripheries of said rings, the radial depth of said openings being greater than their circumferential width and less than the radial distance between the walls of said annular channels, spacer bars interpositioned between the rollers having substantially the same circumferential width as the corresponding openings and their opposite ends reduced in radial width corresponding to the radial depth of the openings and secured therein to hold the rings in axially spaced relation parallel with each other.

1,752,617. PROCESS FOR THE AMINOALKYLATION OF AMINES. WILHELM SCHULEMANN, Vohwinkel, near Elberfeld, and FRITZ SCHÖNHÖFER and AUGUST WINGLER, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 12, 1928, Serial No. 246,382, and in Germany Jan. 25, 1927. 7 Claims. (Cl. 260—128.)

1. In the process for the amino-alkylation of amines the step which comprises treating a primary aromatic amine with a compound of the general formula: $\alpha.R_1$ in the form of its salts wherein α represents halogen or the residue of an aromatic sulfonic acid and R_1 the residue of a tertiary amine.

1,752,618. BACK-UP BRAKE FOR VEHICLES. JOHN A. SMITH, Cornwall, Ontario, Canada. Filed May 2, 1929. Serial No. 359,879. 7 Claims. (Cl. 188—30.)



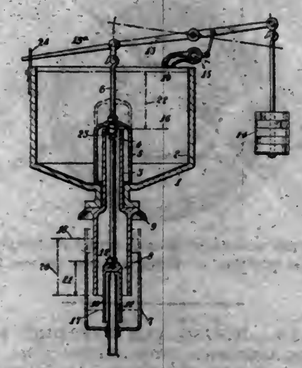
1. In combination, a shaft, a brake drum on the shaft, a brake band disposed about the drum, a casting on one end of the brake band, a bell crank lever pivotally engaged with the said casting, a link pivotally engaged with an intermediate portion of the bell crank lever, means pivotally mounting said link, an adjustable link engaged with the other end of the band and pivotally engaged with the intermediate portion of said first mentioned link.

1,752,619. RELEASE SNAP CONSTRUCTION. ALBERT SUMMERFELD, Saskatoon, Saskatchewan, Canada. Filed Jan. 14, 1929, Serial No. 332,314, and in Canada Oct. 31, 1928. 2 Claims. (Cl. 24—201.)



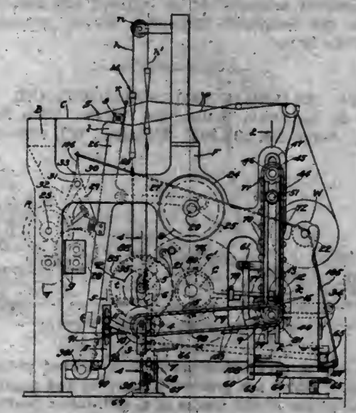
1. A snap comprising an engagement member, consisting of a twisted loop of wire having closed looped ends and an engageable member consisting of a twisted wire having one closed looped end and its other end looped, the ends of the wire forming the extremities of said other looped end crossing each other, said ends projecting in oppositely curved relationship to the body portion of the loop from which they are formed.

1,752,620. SIPHON. NORMAN SWINDIN, Acton, London, England. Filed May 3, 1927, Serial No. 188,544, and in Great Britain May 3, 1926. 6 Claims. (Cl. 137—106.)



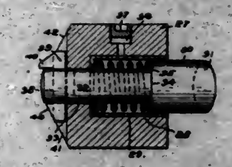
1. A siphon comprising a down-flow pipe, a bucket associated with the lower end thereof to form a liquid seal therefor, means for lowering the bucket to prime the siphon, a bell enclosing the upper end of the down-flow pipe to constitute an up-flow pipe and an operative connection between the bucket and bell whereby the bell is raised and lowered with said bucket.

1,752,621. LOOM. JOSEPH THEXTON, Jr., and HENRY TOMLINSON, Fall River, Mass., assignor of one-fourth to Joseph E. Freeling and one-fourth to Frank Riley, Fall River, Mass. Filed Feb. 1, 1928. Serial No. 251,151. 12 Claims. (Cl. 139—24.)



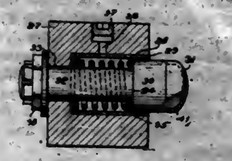
1. In combination with a loom for weaving plain cloth, an attachment for said loom comprising a pattern-controlling chain and a pair of sprockets therefor, shafts on which said sprockets are mounted, a series of cams mounted on said chain arranged in predetermined number and spacing according to the pattern to be woven, a treadle connected with the harnesses, a rotary shaft, cams mounted on said shaft adapted to engage the treadle to actuate the harnesses, a ratchet mounted on one of the sprocket shafts of the pattern chain, a pawl which engages with said ratchet, and an eccentric mounted on the cam shaft having driving connection with said pawl to drive the pattern chain.

1,752,622. PULVERIZING OR GRINDING MILL. DAVID J. UHLE and JOSEPH V. DURNIN, Allentown, Pa. Filed Mar. 30, 1928. Serial No. 266,030. 7 Claims. (Cl. 83—45.)



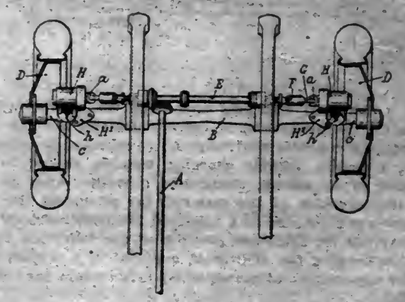
1. In a grinding mill, a casing, a grinding ring arranged within the casing, grinding balls operating upon the grinding ring, a drive shaft extending between the grinding balls, a yoke carried by the drive shaft and embodying generally radial arms having transverse openings, longitudinally slidable pusher elements mounted to slide within the transverse openings and having faces to contact with the grinding balls, and springs within the openings and engaging the pusher elements to force them forwardly.

1,752,623. PULVERIZING OR GRINDING MILL. DAVID J. UHLE and JOSEPH V. DURNIN, Allentown, Pa. Filed Nov. 22, 1928. Serial No. 321,207. 6 Claims. (Cl. 83—45.)



1. In a grinding mill, a casing, a grinding ring arranged within the casing, a rotatable support arranged within the casing, reciprocatory pusher elements carried by the support and having convex faces to engage with the grinding balls, and yielding means to oppose the longitudinal movement of the pusher elements in one direction.

1,752,624. STEERING MECHANISM FOR MOTOR VEHICLES. CHARLES RAYMOND WARRICK, Rueil, France, assignor to Henri et Maurice Farman, Billancourt, France. Filed June 18, 1927, Serial No. 199,610, and in France July 1, 1926. 4 Claims. (Cl. 280—87.)



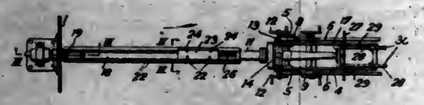
1. In a steering mechanism for motor vehicles the combination with each steering pivot of a worm of variable pitch mounted on the steering axle and adapted to be operated by the steering shaft and a member mounted on the corresponding steering pivot and engaging said worm, the variation in the pitch of said worm being so predetermined that both steering wheels are adapted to rotate about a centre which is substantially situated on the centre line of the nonsteering axle when the vehicle is steered to the right or left.

1,752,625. CRANK-SHAFT ASSEMBLY. GEORGE D. WILSON, Berkeley, Calif., assignor to American Meter Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 18, 1928. Serial No. 247,692. 1 Claim. (Cl. 74—38.)



A crank shaft assembly for operatively mounting the pitmen of valves for meter boxes, comprising a shaft provided with a reduced end portion so as to form a shoulder, said reduced end portion being axially recessed so as to provide a bendable wall, a crank plate provided with a pair of apertures, said plate of lesser thickness than the axial length of the reduced portion of the shaft and being snugly fitted thereover to extend laterally therefrom with the reduced portion of the shaft in position through one aperture, a crank pin provided with a reduced end portion constructed similar to the reduced end portion of the shaft and extended through the other of the apertures in said plate in a direction reverse to the direction of extension of the shaft, the reduced portions of said shaft and crank pin made operatively integral and resistably with said crank plate by being swaged respectively thereto, said crank pin provided with a cylindrical axially aligned body having a transverse opening therethrough adjacent its free end and adapted to receive and releasably hold a locking key, the said crank shaft assembly being mounted rotatably by a bearing engagement of the shaft and having its crank and crank pin portions free of bearing.

1,752,626. DEVICE FOR THE PRODUCTION OF TUBES, POLES, AND THE LIKE FROM REENFORCED CONCRETE CENTRIFUGALLY. PAUL ZEHNDER, Lucerne, Switzerland, assignor to the Firm Internationale Siegwartbalkengesellschaft in Lusern, Lucerne, Switzerland. Filed Mar. 27, 1929, Serial No. 350,255, and in Switzerland Jan. 24, 1929. 5 Claims. (Cl. 25—30.)



1. A material charging apparatus for moulds of devices for the production of tubes, poles and the like from re-enforced concrete centrifugally, comprising in combination, a mobile, tiltable charging member shaped in the manner of an oblong, trough-like container open on top for the reception of the material for producing the wall of uniform thickness of a tube and the additional amount of material for thickened portions of the tube, and means for discharging the additional material in a certain part of the apparatus and consequently in a certain part of the mould.

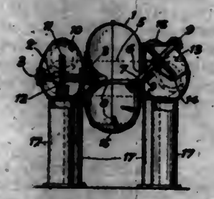
1,752,627. DEVICE FOR PRODUCING REENFORCED-CONCRETE TUBES BY THE ACTION OF CENTRIFUGAL FORCE. PAUL ZEHNDER, Lucerne, Switzerland, assignor to the Firm Internationale Siegwartbalken-Gesellschaft in Lusern, Lucerne, Switzerland. Filed Mar. 27, 1929, Serial No. 350,256, and in Switzerland Jan. 24, 1929. 3 Claims. (Cl. 25—30.)

1. In a device for smoothing the interior walls of concrete tubes during their production by centrifugal action, the combination of a material charging member adapted to receive the material, a smoothing member rotatably mounted on said material charging member, and means



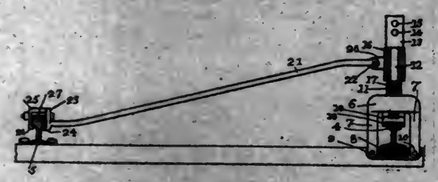
for moving the smoothing member from its inoperative into an operative position in which it acts on the interior of the tube.

1,752,628. MIXING AND KNEADING MACHINE. FRIEDRICH ARSCHBACH, Aarau, Switzerland. Filed July 15, 1929, Serial No. 378,490, and in Switzerland June 13, 1929. 12 Claims. (Cl. 259—85.)



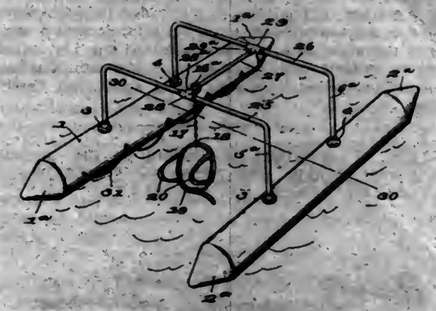
1. A mixing and kneading machine, particularly for treating doughy substances, in combination, a receptacle for receiving the substances to be treated and turnably mounted about a horizontal axis, and a mixing and kneading implement arranged at an inclined axis and projecting into the receptacle through a central opening in a wall of the latter.

1,752,629. RAILROAD-RAIL STRAIGHTENER. CLARENCE D. BALDWIN, Bellingham, Wash. Filed July 16, 1928. Serial No. 293,208. 1 Claim. (Cl. 153—38.)



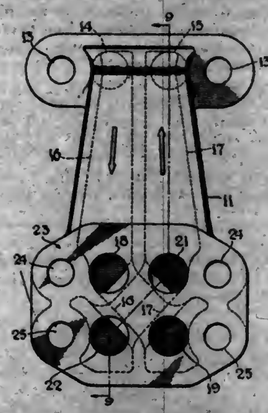
In a rail straightening machine, a curved press beam the ends of which are grooved to bear on and engage with the head of one of the tracks of a railroad, a bearing centrally disposed in said curved beam with its axis in the plane thereof, a press nut, two arms integral with said press nut disposed on opposite sides of said track rail having openings in the ends thereof, a plate to bear on the bottom of said track rail having openings therethrough to register with said openings in the ends of said arms, pins extended through said registering openings to engage said plate with said arms, a press screw engaged with said press nut having a cylindrical shank to mount for rotation in said beam bearing, a turret head of larger diameter than said screw shank fastened on the end thereof to bear on the outer end of said beam bearing, and a strut pivotally connected with the walls of said beam bearing and releasably fastened to the head of the other rail of said track.

1,752,630. SWIMMING CATAMARAN. MAURICE M. BROWN, Washington, D. C. Filed May 1, 1929. Serial No. 359,531. 3 Claims. (Cl. 9—21.)



1. A device of the class described, comprising a pair of light cylindrical tubular metal floats or pontoons, clamping sockets rigidly secured fore and aft upon said pontoons, tubular metal frame members or risers having their lower and outer ends clamped in said sockets, an overhead metal frame member comprising a longitudinal rod or runway with clamping sockets integrally secured upon it and adapted to receive the upper and inner ends of said frame members or risers, and a flexible suspension device depending from said overhead frame member with means at its lower end to secure it to a swimmer and a ring or traveler at its upper end adapted to travel on said rod or runway fore and aft.

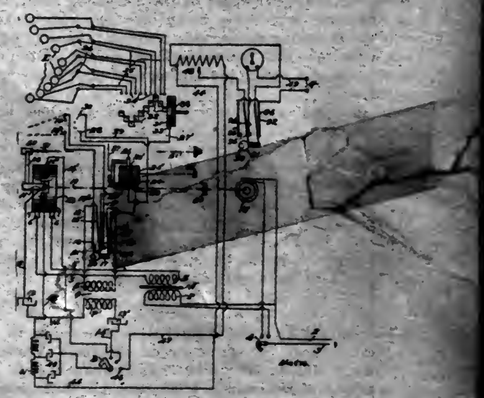
1,752,631. FEED-VALVE MOUNTING. CHARLES A. CAMPBELL, Watertown, N. Y., assignor to The New York Air Brake Company, a Corporation of New Jersey. Filed Jan. 29, 1929. Serial No. 335,957. 5 Claims. (Cl. 303—1.)



1. A feed valve mounting comprising a member having a supply passage and a discharge passage; and a ported reversing member capable of assembly with the first named member in two relations, in one of which its ports establish direct connections, and in the other reversed connections with said supply and discharge passages.

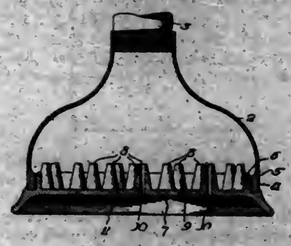
1,752,632. APPARATUS FOR PRODUCING ELECTRIC WAVES. JULIEN DE BEAUMONT, Huntington Park, and EDWARD H. BLUM, Los Angeles, Calif. Filed Mar. 28, 1927. Serial No. 177,669. 14 Claims. (Cl. 250—36.)

1. In combination, a closed core, static transformer, an alternating current rectifying means, a wave discharging air core transformer, a condenser means receiving the current from the rectifying means and discharging waves



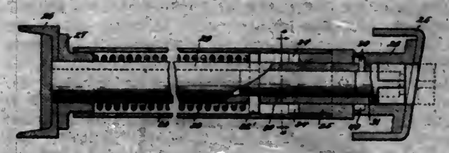
to the latter transformer, and adjustable operative means for varying and rhythmically increasing and decreasing the electromotive force from the rectifying means.

1,752,633. TUBULAR SHOWER HEAD. CHARLES R. CRANE, 2d, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed May 17, 1928. Serial No. 278,579. 4 Claims. (Cl. 299—141.)



1. In a shower head, a plate having a plurality of teats secured to and projecting from its inner surface, each of said teats and said plate having water passages therethrough, and the outer walls of said teats converging toward their inner ends.

1,752,634. SAFETY LOCKING MECHANISM. FREDERICK K. FILDES, Altoona, Pa. Filed Nov. 9, 1928. Serial No. 318,204. 7 Claims. (Cl. 105—366.)

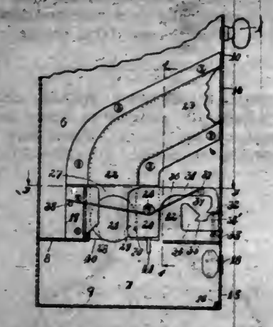


1. In combination with a portable container having a door in one side, bolts mounted in the inside of the container and adapted to be projected into locking engagement with the door and to be retracted therefrom, a vertically slidable bar mounted on the inside of the container having cam slots engaging said bolts to effect their operation, a shaft rotatably and slidably mounted under the bottom of the container at right angles to the plane of said door having a polygonal extremity adapted to project from the container and to be retracted within the plane of the front wall thereof, a collar rotatable on said shaft having a crank connected to said vertically slidable bar, lock mecha-

nism mounted in the outer end of said shaft comprising a bolt adapted to be projected into a recess formed in a relatively stationary part of the container when the shaft is retracted, said sleeve being provided with sockets and said shaft having projections adapted to engage said sockets when the shaft is unlocked and moved to its projected position, and a spring for moving said shaft to its projected position.

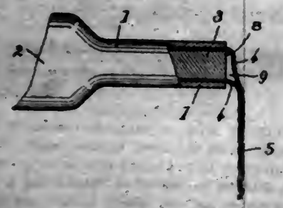
2. In combination with a portable container having a door in one side, means for locking the door, operating mechanism for said means comprising a shaft mounted under the bottom of the container for rotary and longitudinal sliding movements, said shaft extending transversely to the plane of the door, means for rendering said shaft ineffective to operate said locking means when said shaft occupies a retracted position in which its outer extremity is inaccessible, and a key lock for holding said shaft in said retracted position.

1,752,635. VENDING CABINET. DOUGLASS C. FONDA, West Orange, N. J., assignor to Nixon Vending and Change Making Machines, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 11, 1927. Serial No. 174,549. 9 Claims. (Cl. 194—92.)



1. A vending cabinet having a door attached thereto for opening and closing movement and provided with a catch piece; and a coin holding pocket structure within the cabinet including a swingable end wall having thereon a projecting hooked arm adapted to rest upon said catch piece to maintain said end wall in place for admitting a coin into said pocket structure when said door is closed and adapted also to be itself maintained in position from where it will automatically interlock with said catch piece consequent upon the opening movement of said door, substantially as described.

1,752,636. DEVICE FOR MANUFACTURING A TAPE HAVING BRAIDLIKE WRINKLES OR PLAITS FROM SOLIDIFIABLE VISCOUS SOLUTION. TORAZO IZUMI, Tokyo, Japan. Filed Aug. 17, 1928. Serial No. 300,607. 1 Claim. (Cl. 18—14.)

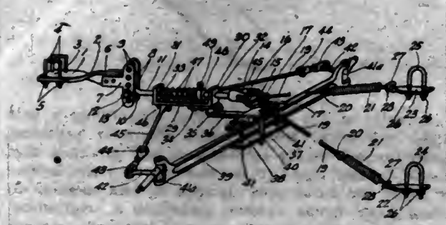


A process for manufacturing an ornamental tape from viscous solidifiable solutions with any known tube-making machine, comprising the steps of forcing a viscous solution from an horizontally disposed tube-making nozzle, sticking together the walls of the outcoming tube in a downward direction, and receiving the flattened braided tube upon a flat surface for drying purposes.

1,752,637. AIRCRAFT COVERING. ISADORE M. JACOBSOHN, Chicago, Ill., and STARR TRUSCOTT, Birmingham, Ohio. Filed Mar. 5, 1926. Serial No. 92,645. 3 Claims. (Cl. 91—68.)

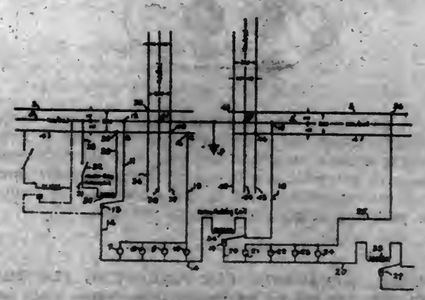
2. A method of rendering a fabric flexible and impermeable to gases consisting in coating a fabric with a mixture of cuprammonium cellulose-latex, bathing the coated fabric in sulfuric acid, washing to remove any reaction products, immersing in a plasticizing agent, and finally drying.

1,752,638. FOUR-WHEELED TRAILER HITCH. JOSEPH B. JOHNSON, Alfalfa, Okla. Filed Dec. 8, 1928. Serial No. 324,647. 3 Claims. (Cl. 280—33.9.)



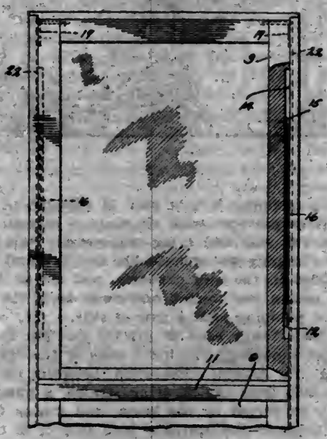
3. A device of the class described, comprising means for fastening to a drawing vehicle, for drawing a trailer, having a beam-clevis connected therewith, a shaft adapted to fasten to said beam-clevis and extending horizontally therefrom for pulling a trailer and for fastening to a ring holding means, a ring holding means, extension rods and expansion springs means for connecting said holding means being adapted for connecting the rear axle of said trailer, U-strap means movably mounted on said shaft, tongue means pivotally fastened thereto adapted for fastening to the front axle of a trailer, tie-rod means for fastening movably adjacent the front end of said U-strap and connecting vertically and laterally moving bifurcated couplings said coupling being pivotally anchored on an arm rigidly attached to the respective knuckles of the front axle of said trailer for movement on said U-strap, tongue member, and front wheels of said trailer, a compression coil spring encircling said shaft within said U-strap being anchored to said shaft in differently adjusted positions by a collar and set-screw, said compression coil spring and its co-acting parts reciprocatingly acting with said expansion springs and their co-acting parts for holding said drawing automobile and said trailer in alined position and to take up the slack and lost motion between them.

1,752,639. ELECTRICAL CIRCUIT. FRANK S. JONES, Seattle, Wash. Filed Feb. 12, 1927. Serial No. 167,729. 3 Claims. (Cl. 171—97.)



1. In an electrical circuit of the character described, multiple distribution lines one of which is a neutral conductor; a plurality of current consuming means having individual circuit connections with said distribution lines and neutral; a coil and a relay switch operatively disposed between the circuits of said current consuming means, said coil having a line connecting one terminal thereof to the neutral line of one circuit and a line connecting its other terminal to the neutral line of the adjacent circuit and said relay switch being operatively disposed with respect to said coil and disposed in the neutral line of the adjacent circuit, said relay being operable by a current of less magnitude than is required to operate said current consuming means whereby an interruption in the current consuming means circuits which will cause the said means to be inoperative, results in a circuit being established through said means and through said coil to one of the lines of the circuit of the second current consuming means, whereby said coil operates said relay which in turn provides an interruption in the second current consuming means circuits.

1,752,640. SCREEN AND WINDOW. OSCAR KARLSLYST, Sacramento, Calif. Filed June 8, 1928. Serial No. 283,854. 3 Claims. (Cl. 20—42.)



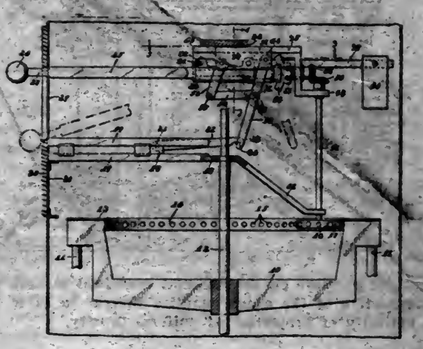
1. In a device of the class described, a frame including stiles and abutments, closures located in a common plane in the frame, an arched spring bearing at its ends on the closures, and means for securing the intermediate portion of the spring to the frame whereby the closures may be moved transversely with respect to each other and slid longitudinally to locate one closure in front of the other, the spring constituting means for pressing the closures against the abutments both when the closures are located in a common plane and when the closures are arranged one in front of the other.

1,752,641. METHOD OF TREATING ALUMINOUS MATERIALS. BENGT RAGNAR FRITIOF KJELLGREN, Cleveland, Ohio. Filed Aug. 23, 1924. Serial No. 733,852. 18 Claims. (Cl. 23—123.)

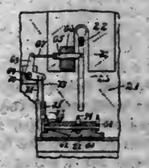
2. A method of treating an aluminous material for the recovery of aluminum sulphate therefrom, comprising the steps of producing ammonium alum, and decomposing the alum to form aluminum sulphate.

1,752,642. TRANSMISSION MECHANISM FOR VENDING OR LIKE MACHINES. LOUIS H. LARSEN, Union City, N. J., and SAMUEL C. MCKEOWN, Mount Vernon, N. Y., assignors to Nixon Vending and Change Making Machines, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 2, 1928. Serial No. 266,798. 16 Claims. (Cl. 74—89.)

1. Transmission mechanism for the purpose indicated comprising a handle mounted for both rotary and rocking movements; an element to be rotated; and a transversely extending sliding connection between said handle and said element arranged to transmit the rotary movement of said handle to said element and to allow free rocking movement of said handle.



1,752,643. HANDLE-ARRESTING MECHANISM FOR COIN-CONTROLLED MACHINES. LOUIS H. LARSEN, Union City, N. J., and CLIFTON W. NIXON, New York, N. Y. Filed June 21, 1928, Serial No. 287,294, and in Great Britain July 14, 1927. 19 Claims. (Cl. 194—72.)

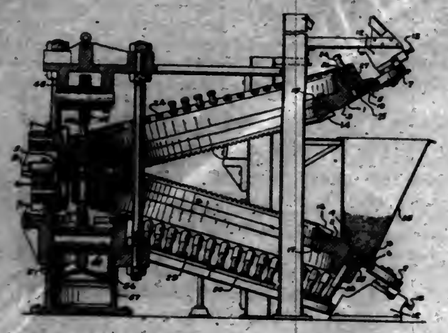


1. In a coin-controlled machine provided with a longitudinally movable coin holding unit and operating means for moving said unit longitudinally; movable arresting means, separate from said unit, normally limiting the operation of said operating means; and means controlled by said unit, adapted to be operated on the longitudinal movement thereof, controlling the movement of said arresting means to permit full operation of said operating means.

1,752,644. COAL-BRIQUETTE MACHINE. HENRY GRANT LAYNG, deceased, Chicago, Ill., by Rosa Anna Layng, executrix, Brooklyn, N. Y. Filed July 19, 1927. Serial No. 206,941. 1 Claim. (Cl. 25—76.)

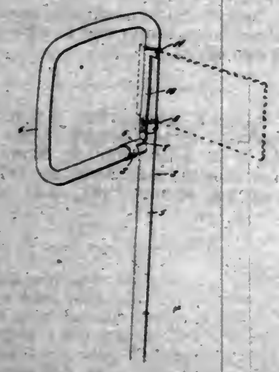
In a briquetting machine two rotary rings set at an angle to each other, a series of molds formed in one of said rings, a series of oppositely placed pairs of plungers carried on said rings and movable endwise in the molds, a feed hopper adapted to load material into the molds,

means for removing excess material, and means for operating the plungers whereby they are caused to exert a



uniform pressure on the material contained in each mold irrespective of the exact quantity thereof so as to form a plurality of briquettes of uniform density.

1,752,645. HOLDER. RILEY EDMOND LONG, Clark, Va. Filed Feb. 16, 1929. Serial No. 340,429. 1 Claim. (Cl. 258—3.)



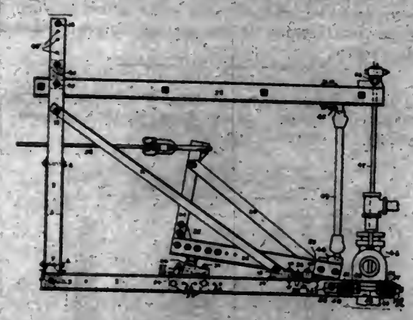
A clamp for train order hoops comprising an angularly bent plate, a collar at each end of the plate for engaging right angular portions of the hoops, and a spring finger extending from one end of the plate for tensional engagement against said hoop for holding a train order, said collars being split with their ends disposed in overlapped relation and thus secured together.

1,752,646. APPARATUS FOR STRENGTHENING THE HEADS OF RAILWAY RAILS. JAKOB LUKASCZYK, Rosenberg, Oberpfalz, Germany. Filed Feb. 25, 1927. Serial No. 170,967, and in Germany Feb. 23, 1926. 1 Claim. (Cl. 266—6.)



Apparatus for strengthening the heads of railway rails, comprising, a supporting device, a longitudinal girder connected with the supporting device, a saddle on said longitudinal girder, a tongs mechanism adapted to grip the upper face of the base and the web of a rail and to press the lower face of the base of the rail firmly against said saddle, and a lifting device adapted to drive said tong mechanism.

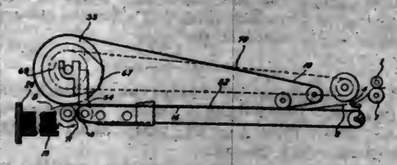
1,752,647. JACK FRAME FOR WELL PUMPS. JOSEPH R. MAHAN and JOHN B. PICARD, Toledo, Ohio, assignors to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 30, 1928. Serial No. 250,422. 10 Claims. (Cl. 74—5.)



1. In a pumping jack, a pair of sills having their opposing sides provided with channels, a clamping jaw secured to the sills and lying transversely thereof and a movable clamping jaw opposite the first jaw and having its ends guided in the said channels, and means for adjusting the second jaw toward and away from the first jaw.

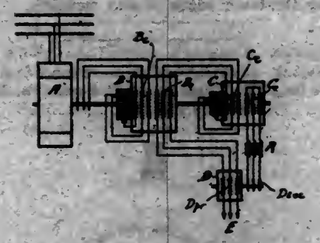
9. In a pumping jack, a pair of sills, a pair of uprights having their lower ends in pivotal relation to the sills, abutments supporting the lower ends of the uprights, and relieving the pivotal connection between the uprights and the sills from the shearing strains, a pumping beam pivotally supported by the beam, and means for adjusting the angle of the uprights with respect to the sills.

1,752,648. FEEDING AND STACKING MACHINE. LOUIS L. MATTHEWS, Westerly, R. I., assignor to Charles B. Maxson and Julian W. Maxson, Westerly, R. I. Filed Aug. 28, 1928. Serial No. 302,611. 11 Claims. (Cl. 271—86.)



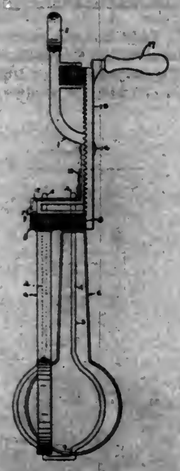
1. A machine for feeding sheet material into a lay-boy and stacking the sheets therein having, in combination, means for feeding the material past a predetermined point, means for feeding the sheets away from the point at increased speed to separate each sheet from the next-following sheet and so as to feed the sheets singly and unrestrained into the lay-boy at a speed so high that the sheets have a tendency to buckle and fly about therein, and a roll cam for slowing down the speed of travel of each sheet in the lay-boy after the head has entered the lay-boy and for feeding the tail of the sheet into the lay-boy before the head of the next-following sheet has entered the lay-boy.

1,752,649. SYSTEM OF CONNECTIONS FOR COMPENSATING. JOHANN OSSANNA and HANS GRAMEL, Munich, and FRITZ HOFMANN, Munich-Talkirchen, Germany, assignors to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed Dec. 23, 1927, Serial No. 242,198, and in Germany Dec. 15, 1926. 3 Claims. (Cl. 172—274.)



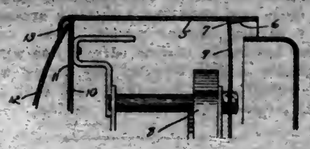
1. In an electric circuit carrying alternating currents of variable frequency in combination, a self-inductive winding, a commutator machine connected in circuit with said winding, an exciter winding on said commutator machine, a transformer connected with its primary winding in circuit with said self-inductive winding so that the current in said primary winding is proportional to the current in said self inductive winding, and means for feeding the exciter winding of the commutator machine from the secondary winding of the transformer, said transformer being dimensioned in size, and being phase-adjusted in its secondary winding so that the voltage, supplied by the transformer to the variable frequency circuit through said commutator machine, compensates the self induction voltage produced in said self-inductive winding.

1,752,650. DEMOUNTABLE EGG BEATER. JULIAN A. PARDINI, San Francisco, and ITALO ANDREOTTI, Nevada City, Calif. Filed June 15, 1927. Serial No. 198,941. 6 Claims. (Cl. 259—131.)



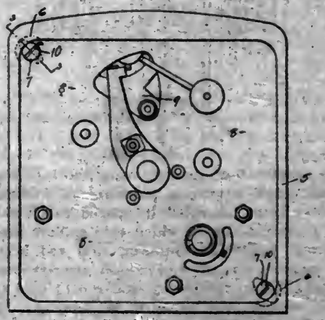
1. In a beater comprising a main body portion, a rotatable beater mechanism, means consisting of a spring actuated latch for detachably connecting said body portion with said beater mechanism, and means in geared co-operation with the beater mechanism mounted on said body portion whereby said beater mechanism may be operated.

1,752,651. CLOCK. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn. Filed Apr. 4, 1927. Serial No. 180,708. 4 Claims. (Cl. 58—53.)



1. A clock having a case-unit open at the back, a time-unit adapted to be inserted into the said case-unit through the open back thereof, a forwardly-yielding assembly-member carried by the time-unit at the rear end thereof, and an assembly-abutment located near the rear end of the case-unit and projecting thereinto, the said forwardly-yielding assembly-member and abutment-member being relatively positioned so that the former is sprung over the latter and tensionally engaged with the forward face thereof when the time-unit is in its "home" position in the case-unit, whereby the time-unit is normally held under tension in the case-unit by the said forwardly-yielding assembly-member.

1,752,652. CLOCK. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn. Filed Apr. 4, 1927. Serial No. 180,709. 3 Claims. (Cl. 58—53.)



1. A clock, comprising a case-unit, a time-unit, a crystal, a stop-abutment carried by the case-unit for limiting the forward movement of the said crystal and time-unit therein, a forwardly-facing locking-abutment carried by the case-unit for acting in opposition to the said stop-abutment, a free-edged assembly-plate located at the rear end of the time-unit and having capacity for having its edge forwardly-flexed bodily, and a turn-button mounted upon the said flexible free edge of the said plate for engagement with the forwardly-facing locking-abutment of the case-unit when the edge of the said plate is forwardly-flexed for the purpose.

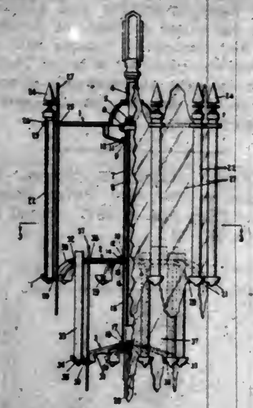
1,752,653. CUTTING TOOL. JOHN E. RIDLER, Buffalo, N. Y. Filed Jan. 7, 1926. Serial No. 79,787. 7 Claims. (Cl. 29—98.)



1. A tool of the kind described, comprising an elongated mounting adapted to be inserted in the tool post

of a machine, said mounting having a bore extending lengthwise therethrough and a slot opening outwardly from said bore, a tool-carrying member having a head bearing against one end of said mounting and a spindle extending from said head and rotatively arranged within said bore, a cutting element carried by said tool-carrying member and having its cutting edge in line with the axis of said spindle, and a retainer key fitting within said slot and adapted to be forced against said spindle for holding the latter in any adjusted position.

1,752,654. LIGHTING FIXTURE. ISIDOR ROSENBLATT, Brooklyn, N. Y., assignor to Globe Lighting Fixture Mfg. Co., Brooklyn, N. Y., a Copartnership composed of Isidor Rosenblatt, Max Rosenblatt, and Louis Lobel. Filed May 14, 1929. Serial No. 362,953. 9 Claims. (Cl. 240—78.)



6. The combination, in a lighting fixture, of a plurality of spiders, each having a plurality of radiating arms, said spiders being mounted in spaced relation one above another, a central rod on which said spiders are mounted, a cylindrical spacer surrounding said rod between each pair of spiders, the ends of which spacers bear against said spiders, means carried by said rod to hold the spiders rigidly in position, the upper spider having a hole in the end of each of its arms, a socket adjacent the end of each of the arms of the other spiders, there being a hole in each arm of the upper and the intermediate spider which registers with the socket on the end of each arm of the spider next below, rods slidably mounted in said holes and adapted to rest in said sockets, and a plurality of glass panels detachably mounted intermediate said rods.

1,752,655. PACKAGE-DISPLAY DEVICE. JOHN J. SCHEROTTO, Union City, N. J., assignor to Snyder & Black, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 5, 1928. Serial No. 244,701. 1 Claim. (Cl. 211—157.)



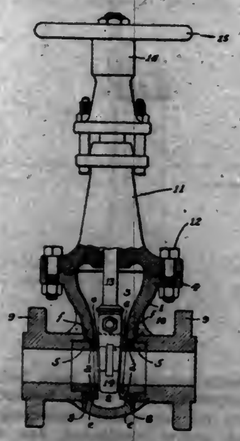
A package display device including in combination front and back members of similar shape articulated along their upper edges, there being an opening through each of said members for the reception and support of a package or the like, the lower edges of said members being curved for affording surfaces upon which the device is adapted to rock from side to side when in use, the lower edges of the openings being located well below the center of curvature of their lower rocker edges, a member connecting said edges to form a package support and means for separating the lower edges of said members.

1,752,656. FISHING TOOL. FERDINAND J. SPANG, Butler, Pa. Filed Oct. 2, 1928. Serial No. 309,825. 6 Claims. (Cl. 294—93.)



1. In a fishing tool, the combination with a hollow body, of an elongated bored expansible gripping member having a portion entered in and cooperating with the body, and an expanding member disposed in the gripping member and positioned for actuation by a movement of the body.

1,752,657. GATE VALVE. STANLEY W. SPARKS, Summit, N. J., assignor to The Columbus Machine Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 20, 1925. Serial No. 70,208. 4 Claims. (Cl. 251—167.)



1. In a valve, the combination comprising a valve body member having opposing lateral apertures adapted to receive internal bushing members, the outer walls of said valve body being provided with a marginal annular recess, adjacent said apertures, flanged internal bushings fitted into said apertures and projecting outwardly therefrom, hub members fitted to the outer ends of the respective bushings and tapered, metallic compression sealing rings tightly fitted into said recesses and substantially completely filling the same.

1,752,658. LIGHTER. ANICETO R. VISITACION, New York, N. Y., assignor of one-fourth to General William Weigel and one-half to Louis G. Weigel, New York, N. Y. Filed Mar. 1, 1928. Serial No. 258,217. 4 Claims. (Cl. 67—4.1.)



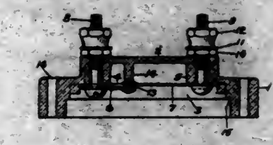
4. In a device of the class described, a two-part pear shaped metal casing, one of said parts being movable relative to the other part, a container adapted to carry an inflammable liquid and a wick, said container being resiliently held in one of said movable parts, a lug on said container adapted to engage a hook on the other part to hold the parts in closed position, a spring mounted on said other part and normally tending to force the movable part outward, and means to automatically ignite the wick when said movable part is released and forced outward by the spring.

1,752,659. PLATE-REGISTERING MEANS. WILLIAM H. BANZETT, Bergenfield, N. J., assignor to American Lithographic Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 2, 1929. Serial No. 337,044. 6 Claims. (Cl. 101—415.1.)



1. That improvement in plate registering means including in combination a bed, a printing plate thereon, means for securing one end of the plate to the bed, a plurality of clamps mounted and adapted for engaging and stretching the other end of the plate on said bed, one of said clamps being constrained against transverse movement, another of said clamps being mounted for transverse movement and a slit in said plate extending inwardly of said plate away from its transverse edge, said slit being located between said clamps, whereby, by moving the transversely movable clamp away from the first mentioned clamp, those portions of said plate on either side of said slit are separated.

1,752,660. LIGHTNING ARRESTER. LEON S. BRACH, East Orange, N. J. Filed Feb. 14, 1929. Serial No. 339,755. 7 Claims. (Cl. 175—30.)



1. In a lightning arrester, a pair of electrodes anchored at one end and having their free ends arranged in overlapping relationship, and a circular piece of carborundum supported by and between said overlapping ends which are formed to contact with the carborundum over a certain portion of its surface and then gradually deflect from the carborundum to form auxiliary air gaps around the carborundum.

1,752,661. ELEVATOR-CAB CONSTRUCTION. CHESTER C. CAMPBELL, West Orange, N. J., assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 8, 1928. Serial No. 298,360. 6 Claims. (Cl. 189—1.)



1. An elevator cab comprising a wall, a strip fastened on the face thereof parallel to the bottom edge and spaced therefrom and a plate with a lip portion bent at an angle to the face of the plate secured over the bottom portion of the face of the wall between the bottom edge of the wall and said strip, said lip portion abutting the face of the wall just below the metal strip.

1,752,662. DECORATIVE LIGHTING OUTFIT. REUBEN ECKSTEIN, New York, N. Y. Filed Dec. 1, 1928. Serial No. 323,116. 4 Claims. (Cl. 173—340.)

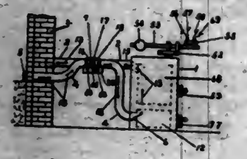


1. In a portable electric lighting outfit of the character described formed with flexible conductors having insulating coverings, a lamp socket comprising an insulating casing, a contact shell mounted in the casing, a center contact insulated from said shell, resilient contact members connected to the said shell and center contact, prongs piercing the insulating coverings electrically connecting the conductors to said resilient contact members and means for clamping the socket to the conductors.

1,752,663. HEAT-CONTROL APPARATUS. JOHN J. FAGAN, Bayonne, N. J. Filed Jan. 20, 1929. Serial No. 333,946. 5 Claims. (Cl. 236—16.)

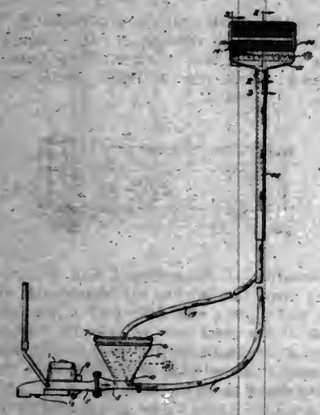
1. An apparatus of the class described, comprising a manifold pipe box connecting the combustion air pipe and

the smoke pipe, a door within the manifold pipe box, electric means for moving the door to alternate open and



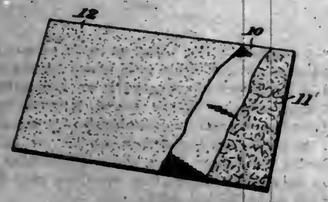
closed positions within the said combustion air pipe, an electric circuit for such means and means for controlling the circuit automatically from a distant point.

1,752,664. APPARATUS FOR CLEANING WALLS. GEORGE J. FORCINE, Lakewood, Ohio. Filed July 27, 1929. Serial No. 381,577. 4 Claims. (Cl. 51—8.)



1. A cleaning apparatus comprising a hopper for containing cleaning material, a head having a mouth for application to the surface being cleaned and discharge and return passages communicating with said hopper and mouth, spring shutters at the mouth, adapted to be opened by pressure of the head against said surface, and means to cause a blast of air through said passages.

1,752,665. PROCESS FOR THE MANUFACTURE OF SENSITIZED VELVET PAPER FOR PHOTOGRAPHICAL USES. DANIEL FRIEDLÄNDER, Brussels, Belgium, assignor to Messrs. A. Meursing and E. J. Gratama, Amsterdam, Netherlands. Filed July 7, 1927, Serial No. 204,152, and in Germany July 7, 1926. 1 Claim. (Cl. 91—69.)



The process of making sensitised velvet paper for photographic use consisting in coating a well-sized sheet of paper with an adhesive material that does not readily dissolve in water then spreading over the surface a fine fibrous organic dust, drying the aforesaid material and removing the excess dust and finally sensitising the paper over the dull velvety surface thus produced.

1,752,666. PROTECTIVE SYSTEM FOR TRANSMISSION CIRCUITS. FRAZER W. GAY, Newark, N. J. Filed Sept. 19, 1928. Serial No. 306,898. 9 Claims. (Cl. 172—287.)

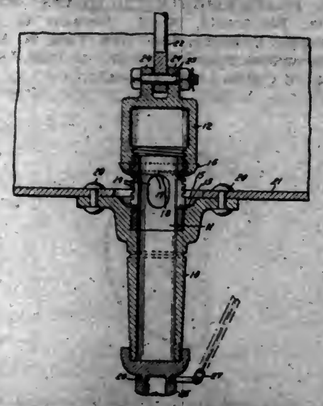


1. In an electric power distribution system, a three phase dynamo, a circuit for said dynamo, a three phase transformer, said transformer having a three phase star connected low voltage winding connected in said dynamo circuit and a three phase high voltage winding with a grounded neutral, and conducting means connected to the neutral of said transformer low voltage winding causing the free flow of triple harmonic current from said neutral.

5. In an electric power distribution system, a three phase transformer having a plurality of star connected windings, one of said windings having its neutral solidly grounded, a dynamo, a circuit for said dynamo, said dynamo circuit including another of said transformer windings, and impedance means in said dynamo circuit, said impedance means offering a substantially negligible impedance to three phase current flowing in said winding having its neutral grounded but acting to limit the single phase current induced in said latter winding and flowing to ground.

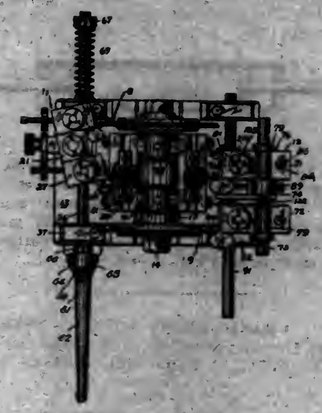
9. In an electric power distribution system, a three phase dynamo, a circuit for said dynamo, a three phase transformer, said transformer having a three phase star connected low voltage winding connected in said dynamo circuit and a three phase high voltage winding with a grounded neutral, and conducting means in shunt across each phase winding of said low voltage transformer winding, said conducting means serving to freely pass triple harmonic current.

1,752,667. VALVE. JOSEPH L. HUTCHINGS, Olean, N. Y. Filed Nov. 2, 1927. Serial No. 230,419. 2 Claims. (Cl. 251—29.)



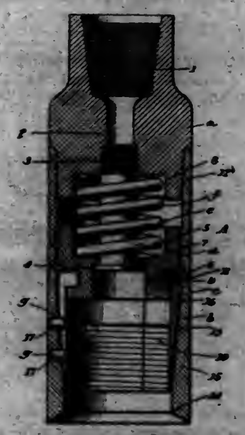
1. A valve comprising a substantially tubular body member having an annular recess formed in an end thereof, a portion of the outer wall of said recess being formed to provide a valve seat, an externally threaded nipple projecting from the recessed end portion of said body member, an internally threaded closure member mounted on said nipple for movement into contact with said body member, said closure member having a surface for engaging said valve seat, and an annular row of teeth carried by said closure member and adapted to enter said annular recess as the closure member is moved into contact with the body member.

1,752,668. KEY DUPLICATOR. EDWARD JOHNSON, Oakland, Calif. Filed Sept. 10, 1925. Serial No. 55,450. 5 Claims. (Cl. 90—13.2.)



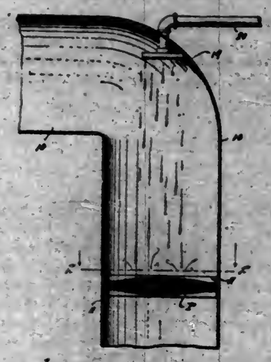
1. In a key duplicator, a rotatable disc cutter having a cutting surface provided thereon, a key-blank support arranged for movement in a fixed plane to permit the presentation of the bit portion of the blank against said cutting surface to cause the notching thereof, means arranged for adjusting the angular relation of said support to said cutting surface whereby said cutting surface will be maintained in adjusted angular relation to the finished portions of the surface of a notch, and means manually operable in a fixed vertical plane perpendicular to said first plane for disposing the uncut portions of said key blank against said cutting surface.

1,752,669. FISHING TOOL. WINFIELD S. JONES, Brea, Calif., assignor of fifty per cent to Elmore D. Jones, Long Beach, Calif. Filed June 4, 1928. Serial No. 282,791. 3 Claims. (Cl. 294—102.)



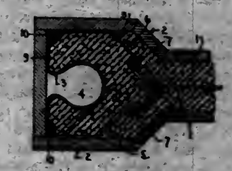
1. In a fishing tool, a bowl, a sub connected therewith, an annular collar within the bowl, a circulation tube secured to the sub and carrying said collar when the collar is in one position, a coil spring surrounding the circulation tube and lying between the sub and the said collar, and slip members arranged in annular formation within said bowl and carried by the collar.

1,752,670. HEAT-ABSORBING MEDIUM. RUSSELL B. KINGMAN, Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a Corporation of Rhode Island. Filed July 1, 1927. Serial No. 202,841. 3 Claims. (Cl. 257—263.)



1. A heat absorbing medium permeable to fluids, comprising a spongiform body consisting in a mass of thin ribbon-like metallic filaments the flat faces of which provide a maximum area of contact surface, said mass having enclosing outer cover sections of knitted flat metallic wire, said cover sections being stitched along their marginal edges.

1,752,671. STRUCTURAL ELEMENT. HERBERT M. KNIGHT, Montclair, N. J. Filed June 24, 1927. Serial No. 201,075. 5 Claims. (Cl. 72—106.)



1. In a pre-cast slab the combination of a plate as a key-way forming means, lugs on said means, a reinforcing element, and means engaging said lugs and said element.

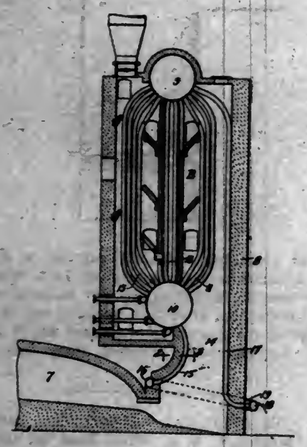
1,752,672. PISTON. EMIL KOTTUSCH, Detroit, Mich. Filed June 15, 1928. Serial No. 285,548. 3 Claims. (Cl. 74—108.)



1. A piston including a skirt portion formed with outwardly yielding tongues integral with the skirt at one end and with said tongues extending in a direction at right angles to the skirt axis, means adjacent the free end of each tongue for detachably holding said tongue with its free end depressed inwardly, said means com-

prising a removable pin extending transversely of the free end portion of each tongue and with said pin extending parallel with the skirt axis to engage said piston at points above and below said tongue end.

1,752,673. WASTE-HEAT BOILER. GEORGE T. LADD, Pittsburgh, Pa., assignor to Ladd Water Tube Boiler Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 20, 1926. Serial No. 97,504. 1 Claim. (Cl. 122—7.)



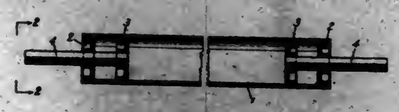
In combination, a furnace from which waste heat is to be derived, an off-take therefor having a throat, a boiler in the off-take above the throat including an upper drum and a lower drum and connecting vertically disposed tubes, downcomer tubes within the throat and leading from the lower drum downwardly, a header for said tubes located exterior of the throat, upcomer tubes within the off-take connected to the upper drum at one end, a header to which the other ends of said tubes are connected, and means for connecting the headers.

1,752,674. CHECK PROTECTOR. MICHAEL T. LAPPIN, New York, N. Y. Filed June 14, 1929. Serial No. 370,785. 5 Claims. (Cl. 101—24.)



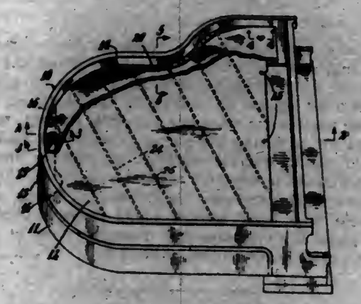
1. A check protector comprising a pair of co-operating abrading rollers between which a check is adapted to be passed, a frame for supporting said rollers, one of said rollers being tubular and adapted to surround the body of a writing implement and rotate about the same.

1,752,675. KILN ROLLER. OSCAR E. LARSON, Lancaster, Ohio, assignor to The Hermann Manufacturing Company, Lancaster, Ohio, a Corporation of Ohio. Filed May 17, 1927. Serial No. 192,127. 2 Claims. (Cl. 193—37.)



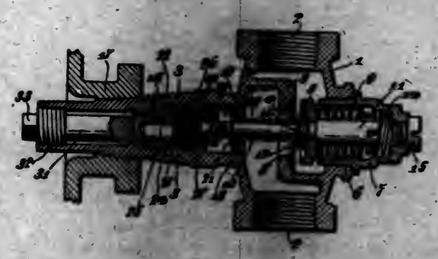
1. In a roller structure, a body portion having a hollow end, a stub shaft forming a journal for such body portion and a plurality of spaced resilient members U-shaped in cross-section for embracing said journal and fitting within the hollow end of the body portion to hold said stub shaft in such hollow end.

1,752,676. GRAND-PIANO-BODY CONSTRUCTION. CHARLES LOITSCH, New York, N. Y. Filed Oct. 26, 1925. Serial No. 64,717. 1 Claim. (Cl. 84—184.)



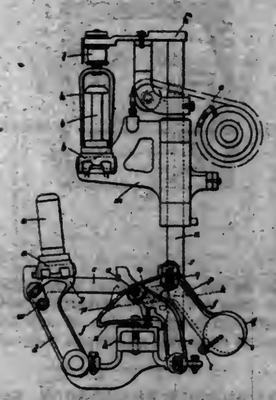
In a grand piano, a lateral extension projecting from a vertical portion of a cross beam secured across a piano frame, and a string plate supported on the said lateral extension so that vibrations from the string plate are indirectly transmitted to the piano frame.

1,752,677. AUTOMATIC GAS SHUT-OFF VALVE. LUTHER D. LOVEKIN, Wynnewood, Pa. Filed Mar. 8, 1928. Serial No. 259,979. 10 Claims. (Cl. 137—162.)



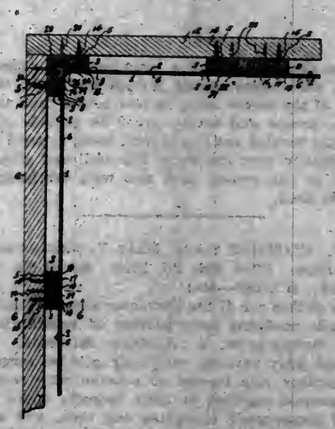
2. An automatic gas shut-off valve, comprising a valve casing having a passageway therethrough, a valve in said casing for controlling the flow through said passageway, means normally urging said valve to closed position, a tubular extension on said valve casing, means for adjustably mounting a fusible disc in said extension, a rod interposed between said valve and said fusible disc and operating to hold said valve in open position, and a partition between the valve passageway and the interior of the said extension.

1,752,678. DOFFING MECHANISM FOR SPINNING, TWISTING, AND LIKE MACHINES. JOHN PRINGLE MACKIE, Belfast, Ireland, assignor to James Mackie and Sons, Limited, Belfast, Ireland, a British Company. Filed Aug. 29, 1928, Serial No. 302,808, and in Great Britain Nov. 10, 1927. 6 Claims. (Cl. 118—18.)



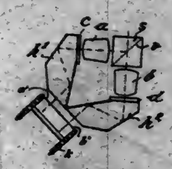
1. A doffing motion for spinning, twisting and like machines, comprising in combination, a pair of interchangeable bobbin rails, a support for same comprising a rocking frame pivotally mounted on the machine framework, mechanism for swinging said rocking frame so as to carry said rails between the forward or doffing position and the rear position, and a pair of pivoted supporting members operatively related to said rocking frame so as to receive said bobbin rails in their rear position and to retain same at their highest position, clear of said rocking frame when the latter is in its rear position.

1,752,679. DECORATIVE WALL STRUCTURE. CHARLES E. MAIER, Newark, N. J. Filed Nov. 29, 1927. Serial No. 236,442. 4 Claims. (Cl. 72—19.)



1. A wall structure comprising a backing structure, a plurality of aligned sheet metal panels having offset securing elements fastened to said backing structure, said aligned panels having intermediate spaces, a cementitious material in said spaces, anchoring means in said backing structure embedded under said cementitious material, and an intermediate panel extending across the space between said adjacent panels and having lateral anchoring elements embedded in said cementitious material.

1,752,680. OPTICAL MEANS FOR PRODUCING COLOR CINEMATOGRAPHIC PICTURES. KARL MARTIN and PAUL TIETZE, Rathenow, Germany. Filed Apr. 19, 1927, Serial No. 185,033, and in Germany Apr. 24, 1926. 1 Claim. (Cl. 88—1.)



In a device of the class described, a ray-dividing device comprising a partly light-pervious mirror, a pair of objectives arranged upon axes perpendicular to one another and positioned so that one objective receives directly the rays reflected from said mirror, while the other objective receives directly the rays transmitted through said mirror, means for passing a film perpendicular at its midline to the plane of said mirror, and optical means for turning the rays from said objectives into parallel contiguous paths registering respectively with the two halves of said film.

1,752,681. FEEDING AND STACKING METHOD AND MACHINE. CHARLES B. MAXSON, Westerly, R. I., assignor of one-half to Julian W. Maxson, Westerly, R. I. Filed Aug. 28, 1928. Serial No. 302,566. 15 Claims. (Cl. 271—76.)



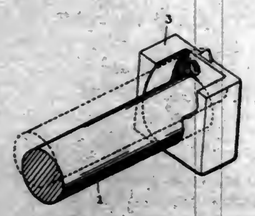
1. A method of feeding sheet material into a lay-boy and stacking the sheets therein comprising feeding the head of each sheet into the lay-boy unrestrained at a speed so high that if the whole sheet were delivered unrestrained into the lay-boy at the said speed the sheet would have a tendency to buckle and fly about therein, and engaging the tail of each sheet after its head has entered the lay-boy unrestrained to slow down the speed of travel of the sheet in the lay-boy.

1,752,682. ROLLER ATTACHMENT. GRANT W. MCCONNELL, Dorset, Ohio. Filed Feb. 9, 1923. Serial No. 618,107. 3 Claims. (Cl. 301—39.)



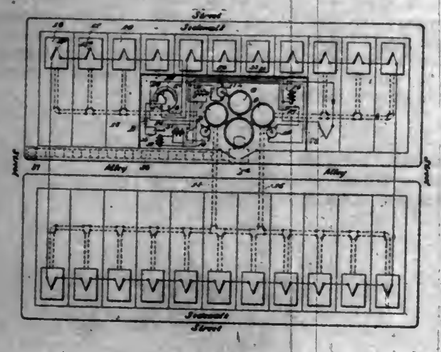
2. The combination with the rim of a traction wheel and a tubular roller sleeved thereover, said rim provided with projecting cleats on its outer periphery, of spaced angular lugs secured to the inner surface of said roller against which one edge of said rim rests, clamping means upon the other side of said rim, wedge members inserted between said cleats and roller, said wedge members saddled over said projecting cleats, and bolts passing through said lugs, clamping means and wedges.

1,752,683. SOCKET BLOCK FOR POLES. JOSEPH H. MEAGHER, Rochester, N. Y. Filed Aug. 22, 1928. Serial No. 301,340. 1 Claim. (Cl. 248—20.)



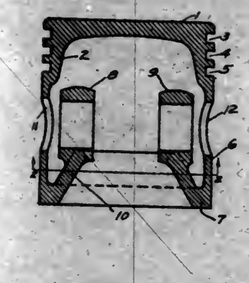
A block having a socket opening in the side thereof and extending to the top thereof, the lower portion of the socket being a concave semi-cylindrical in shape, said semi-cylindrical portion ending with a shoulder on one side and on the other side ending with a concave merging therewith of longer radius than the radius of the lower sockets and concentric with said shoulder, the first named side having a concave above the shoulder of substantially the same radius as the lower concave and sloping away therefrom, the opening at the top being of a width substantially the same as the diameter of the lowest concave, the socket being adapted to receive a pole through the top thereof by a twisting movement around either side of the opening and being adapted to receive a pole in the lowest concave by a twisting movement around the shoulder.

1,752,684. CENTRAL HEATING SYSTEM. EDWARD SHERWOOD MEAD, Philadelphia, Pa. Filed July 12, 1927. Serial No. 205,161. 5 Claims. (Cl. 237—13.)



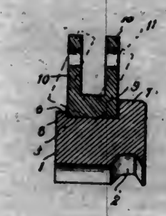
1. In combination, a central heating plant, a plurality of buildings, means for conducting heating fluids from said central heating plant to said buildings, temperature responsive means in each of said buildings, means controlled by all of said temperature responsive means in accordance with the average temperature in all said buildings and means controlled by said last mentioned means for automatically controlling the operation of said central heating plant.

1,752,685. PISTON. COURTNEY N. MITCHELL, Cleveland, Ohio. Filed Mar. 16, 1928. Serial No. 262,078. 4 Claims. (Cl. 74—108.)



1. A piston having a cylindrical body, a conical section adjoining the open end of said cylindrical body, and wrist pin bosses attached to the portion of said conical section farthest removed from the cylindrical body of said piston.

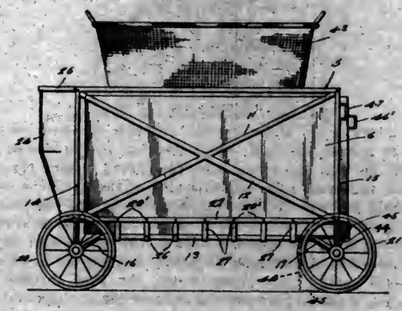
1,752,686. LOCOMOTIVE BRAKE SHOE. EDWARD NAGLE, New Philadelphia, Ohio, assignor of one-half to Charles C. Davis, Uhrichsville, Ohio. Filed June 14, 1928. Serial No. 285,416. 1 Claim. (Cl. 188—254.)



A brake shoe comprising a body having a recess in its rear face, said recess having beveled end walls, the outer side wall of the recess being of less height than the inner side wall thereof and being curved to provide a stop, a head having beveled ends, said head being capable of being moved laterally over the outer side wall and stop for engagement in the recess, said end wall overhanging the ends of the head.

1,752,687. CLOTHES CAR. MARY V. NEWHOUSER, Anadarko, Okla. Filed Feb. 26, 1929. Serial No. 342,868. 3 Claims. (Cl. 280—50.)

1. In a clothes car of the character described comprising a receptacle confining body portion of substantially rectangular configuration, a receptacle detachably confined within said body portion, said body portion formed of a pair of unitary side frames of substantially rectangular contour secured together at their opposite upper ends by a pair of transversely extending end rails, and said side frames secured together adjacent the bottoms thereof by a strap co-extensive with said frames and the forward end of said body portion, a plurality of spaced, transversely extending, substantially U-shaped cross bars secured to the sides of the strap to form a cradle for reinforcing the bottom of said body portion, the bottoms of said pair of side frames being upset with respect to the lower extremities of the ends thereof to form angularly disposed axle supporting brackets integral with said side frames at the opposite ends thereof, and a pair of axles extending transversely of and rigidly secured to adjacent axle brackets at the opposite ends of said frames, a pair of wheels journaled on the free ends of each axle laterally of said side frames, a plurality of longitudinally extending, substantially yoke-shaped spaced bars having the opposite legs thereof rigidly supported on said axles and the bight portions thereof supported on the cross bars of said cradle, and a plurality of longitudinally extending spaced slats secured to and extending between said end rails to provide a support for a second receptacle.

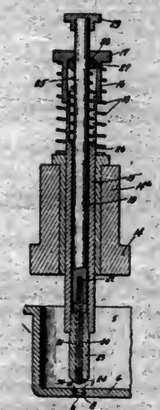


1,752,688. WINDOW REGULATOR. STANLEY W. NICHOLSON, Toledo, Ohio, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 23, 1926. Serial No. 90,106. 3 Claims. (Cl. 268—126.)



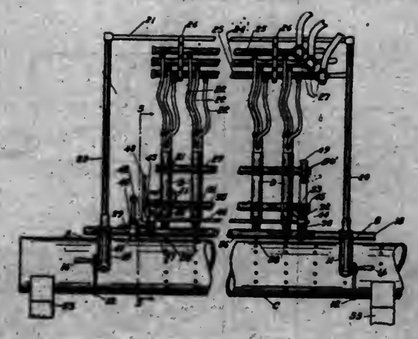
1. The combination of a frame having an opening and a chamber adjacent said opening, a metallic panel forming one wall of said chamber and having a depressed portion with a laterally offset wall, a movable closure for the opening, an arm connected to said closure and located adjacent one side of said wall, and a drive mechanism connected to said arm and located in said depressed portion at the opposite side of said wall.

1,752,689. METHOD AND TOOL FOR CLEANING SPINNERETS. OLOF OHLSON, West Newton, Mass. Filed June 17, 1925. Serial No. 37,761. 9 Claims. (Cl. 18—8.)



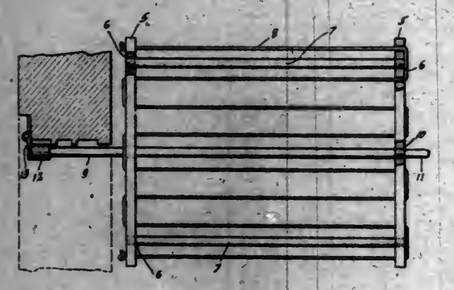
1. The method of cleaning the spinning orifice in a device for forming filaments, which consists in first alining a guide with the spinning orifice, and then passing a cleaning rod in conducted engagement with said guide through the alined orifice.

1,752,690. SLOT CUTTER. FREDERICK A. OST, Inglewood, Calif., assignor, by mesne assignments, to National Tool and Metals, Inc., Torrance, Calif., a Corporation of California. Filed June 25, 1928. Serial No. 288,222. 9 Claims. (Cl. 266—23.)



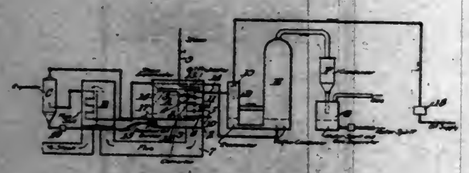
1. A device for cutting slots in a metal object, comprising, in combination, a portable carriage adapted to be adjusted astride the object to be slotted, means for holding the carriage and the object in position, an auxiliary carriage slidable longitudinally on the portable carriage, a number of cutting torches in series formation longitudinally of the object mounted upon said auxiliary carriage with their orifice tips in juxtaposition to the object to be slotted, and means for moving said auxiliary carriaage to permit the jets issuing from said tips cutting longitudinal slots in said object.

1,752,691. CLOTHES RACK. HERMAN PINTEL, Arlington, N. J. Filed Dec. 14, 1928. Serial No. 325,970. 1 Claim. (Cl. 211—96.)



In a clothes rack of the class described, a frame consisting of a pair of end bars having unthreaded alined base openings and further having adjacent their ends threaded openings, the threads of one bar extending in, reverse direction to those of the other bar, a pair of side bars reversely threaded at their opposite ends and adapted for simultaneous threaded engagement within the openings of said end bars, and means associated with said frame to facilitate the attachment of clothes thereto, comprising a flexible strand having its opposite ends anchored to the frame and its intermediate portion passed through the unthreaded opening and extending back and forth between the bars, said side bars constituting the means for tightening the strand, and an elongated supporting bar slidably extending through one of the end bars and threaded through the other end bar and terminating at one end in a reduced handle forming portion and having means at its opposite end for hingedly mounting same on a support.

1,752,692. PROCESS FOR THE PRODUCTION OF GAS AND AROMATIC HYDROCARBONS FROM HEAVY HYDROCARBON OILS. ALEXANDER S. RAMAGE, Detroit, Mich., assignor to The Ozonide Corporation, a Corporation of Michigan. Filed Dec. 23, 1925. Serial No. 77,850. 7 Claims. (Cl. 196—52.)

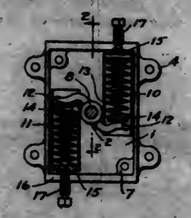


2. Process for the production of combustible gas and aromatic hydrocarbons which comprises contacting the vapors of normally liquid paraffin hydrocarbons admixed with a relatively small proportion of steam with ferric oxid at an elevated temperature, and thereafter contacting the resulting gases admixed with more steam with finely divided iron at a higher temperature.

1,752,693. OXIDIZED RESIN AND PROCESS OF MAKING SAME. ALEXANDER S. RAMAGE, Detroit, Mich. Filed Jan. 12, 1926. Serial No. 80,827. 2 Claims. (Cl. 134—26.)

1. Process of making an oxidized resin, comprising subjecting colophony in solution in a liquid hydrocarbon to the action of ozonized air, the solvent being a non-aromatic hydrocarbon in which the oxidized resin is substantially insoluble.

1,752,694. REBOUND ABSORBER. LEONARD G. RECCHIA, Seattle, Wash. Filed Feb. 12, 1927. Serial No. 167,666. 1 Claim. (Cl. 267—20.)



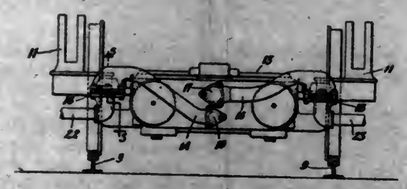
In a device for absorbing the rebound of motor vehicle springs, a case adaptable to be attached to one side of the spring, an arm extending from the casing, means for connecting the arm to the opposite side of the spring, a member with offset projections at each side in the said casing and rigidly connected to the said arm, compression springs extending from the opposite ends of the casing and engaging the offset projections at points beyond the center of the said casing, sleeves in which the said springs are mounted, washers between the ends of the springs and the ends of the said casing, and adjusting nuts engaging the said washers to adjust the compression of the said springs.

1,752,695. PACKAGED INFLATED PLAYING BALL AND METHOD OF MAKING THE SAME. MILTON B. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., Chicopee, Mass. Filed Apr. 19, 1928. Serial No. 271,838. 2 Claims. (Cl. 206—46.)



1. A method of reducing the tension of the elastic components of an elastic inflated playing ball which consists in applying thereto a covering composed of a tape wound thereon under tension.

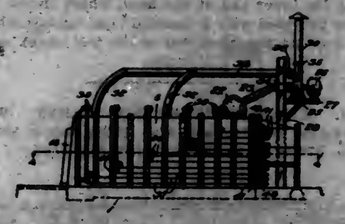
1,752,696. FLEXIBLE CONNECTION FOR LOCOMOTIVE BOOSTERS. MONTAGUE H. ROBERTS, Englewood, N. J., and FRANK R. PETERS, New York, N. Y., assignors to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 28, 1926. Serial No. 157,512. 4 Claims. (Cl. 105—47.)



1. In a flexible connection for a booster steam line, the combination of a steam conduit secured to the rear of the booster engine and a downwardly opening socket member cast integral with said conduit through which the connection is made.

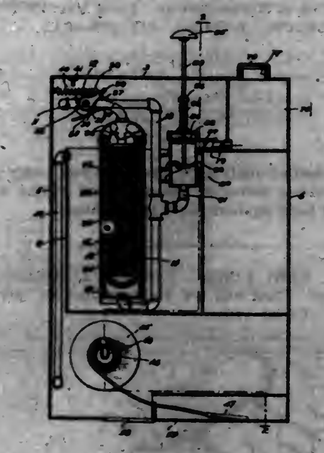
1,752,697. APPARATUS FOR ANNEALING. HARRY M. ROBERTSON, Cleveland, Ohio. Filed Oct. 22, 1927. Serial No. 228,082. 9 Claims. (Cl. 263—39.)

1. In apparatus of the class described, the combination of an annealing chamber having a flooring for charged pots, a fire box disposed at one end of and above said flooring for supplying heat to said chamber and a charging opening formed at the opposite end of said chamber, exhaust conduits having their inlets in the lower portion



and along the opposite sides of said annealing chamber from said fire box to said charging opening, and power driven means connected with said conduits for exhausting the products of combustion from said annealing chamber.

1,752,698. WATER HEATING AND DISPENSING MEANS. JOHN HAROLD ROGERS and THOMAS CONCHA, Los Angeles, Calif. Filed May 7, 1928. Serial No. 275,738. 3 Claims. (Cl. 128—227.)



1. A water heating and dispensing apparatus comprising a water receptacle, means for supplying water to said receptacle and for heating the water so supplied, means permitting overflow of water from said receptacle until the water in the receptacle reaches the desired temperature, outlet means connected adjacent the bottom of said receptacle and including a hose wound upon a self-winding reel, and means operable upon unwinding of said hose from said reel, to simultaneously shut off the supply of water and the heating means therefor.

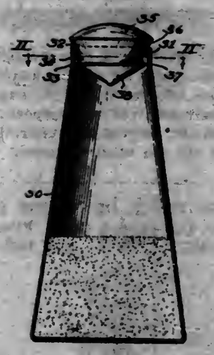
1,752,699. COMBINATION SHOE AND HOSIERY STAND. JOSEPH C. ROSS, Memphis, Tex. Filed Nov. 28, 1928. Serial No. 321,417. 1 Claim. (Cl. 211—134.)

In a display cabinet, vertically disposed spaced walls, a top connecting said walls, reversely inclined vertically spaced parallel shelves also connecting said walls and defining vertically spaced compartments open at opposite ends and having closed top, bottom and side walls, said shelves extending outwardly and downwardly from the



vertical center of the spaced walls for an appreciable distance beyond the opposite edges of the walls, and stops extending upwardly along the outer edges of the shelves.

1,752,700. SELF OPENING AND CLOSING CONTAINER CAP. RAYMOND R. RUNDELL, Miami, Fla. Filed May 5, 1927. Serial No. 188,951. 3 Claims. (Cl. 65—57.)



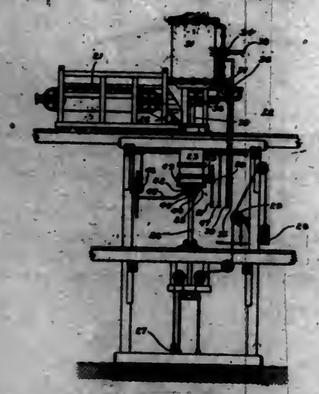
1. The combination of a container or receptacle having a circular opening with an annular edge in the top and a plurality of separated projections extending from the interior wall of said container and adjacent to and below the top edge of said circular opening, a gravity closing or opening cap or closure having an outer substantially conical surface passing within the circular opening and having its upper section adapted to be seated on the top edge of said opening and an inner substantially conical surface having its apex projecting towards the bottom of the container and its sides inclined towards the interior walls of said circular opening, and means on said cap or closure engaging said projections for retaining said cap or closure within the opening when said container or receptacle is inverted and said outer conical surface is unseated from the top edge to provide an outlet for the contents of the container.

1,752,701. AIRFOIL CONSTRUCTION. HARRY H. SEMMES, Chevy Chase, Md., assignor to Bendix Aviation Corporation, New York, N. Y., a Corporation of Delaware. Filed June 19, 1929. Serial No. 372,156. 18 Claims. (Cl. 244—31.)



1. An airfoil comprising a plurality of curvilinear shaped ribs having a wave-like outline, the wave outline of each rib being opposite in direction to that of any adjacent rib and surfacing material supported upon said ribs.

1,752,702. APPARATUS FOR MANUFACTURING HOLLOW TILE. ROY A. SHIPLEY, Canton, Ohio, assignor to National Fire Proofing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 9, 1927. Serial No. 204,485. 2 Claims. (Cl. 25—17.)



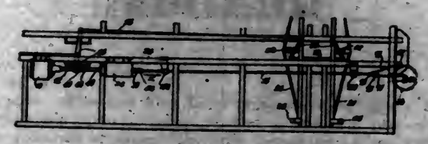
1. In a molding machine, a die, a support placed at a distance therefrom, means for forcing material through the die to fill the space between it and the support, means for controlling the movement of the support after the space is filled, and means for forcing the material confined in the space away from the die upon movement of the support.

1,752,703. HAND DRILL OR SCREW DRIVER. HERBERT E. SIMSON, Los Angeles, Calif. Filed June 12, 1928. Serial No. 284,868. 1 Claim. (Cl. 145—61.)



In a rotary tool of the class described, a handle provided in its forward portion with an axial bore, a sleeve seated in said bore and projecting from the end thereof, a tool shank mounted for rotation in said sleeve, the inner end of said sleeve being countersunk, a head formed on the inner end of said shank and bearing against the countersunk end of the sleeve the outer face of which head is rounded and a thrust bearing member seated in the handle at the inner end of the bore, which thrust bearing member is provided with a rounded head against which the rounded head on the inner end of the tool shank normally engages.

1,752,704. RAILWAY BRAKE EQUIPMENT. WILLIAM C. SLEEMAN, Birmingham, Ala. Filed May 9, 1928. Serial No. 276,811. 11 Claims. (Cl. 188—107.)



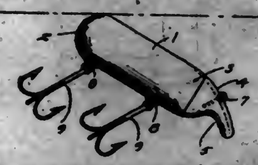
2. In combination with the brakes of a railroad car having both power actuated means and manually actuated means for applying the brakes, an automatically engageable and disengageable connection between said two means.

1,752,705. METHOD OF APPLYING LABELS TO PACKAGES. ELMER L. SMITH, Longmeadow, Mass., assignor to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1928. Serial No. 262,509. 5 Claims. (Cl. 216—62.)



1. A method of applying a label to a wax paper package which comprises softening the wax, and rolling an adhesive coated label against the softened area.

1,752,706. FISH LURE. ANTHONY J. SOBECKI, South Bend, Ind. Filed Aug. 16, 1928. Serial No. 300,067. 3 Claims. (Cl. 43—46.)

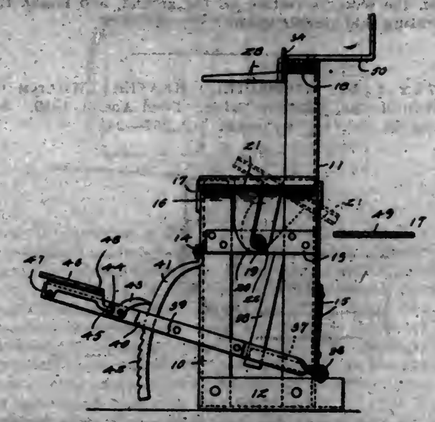


1. A fish lure, comprising an elongated buoyant body of cylindrical cross section and substantially the same diameter throughout, said body having a head at one end in the form of a broad curved tongue having a convex surface provided with a longitudinally extending valley, the entire tongue lying in the area defined by a cross section of the body, hook members carried by the body, and means for attaching a line to the convex side of the head.

1,752,707. BOX-LIDDING BENCH. RALPH A. SQUIER, Tieton, Wash. Filed Apr. 25, 1929. Serial No. 358,105. 5 Claims. (Cl. 100—57.)

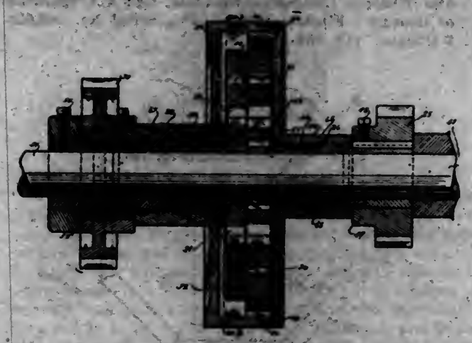
4. In treadle mechanism for use with box lidding apparatus and in combination with an oscillatable treadle, a ratchet segment associated therewith, a dog carried by the treadle for coaction with said segment and having a tail, and a pedal pivoted upon the treadle intermediate its ends

and operatively engaging the tail of the dog to oscillate the same, whereby the dog is disengaged from the rack upon application of pressure to one end of the pedal and is moved into engagement with the rack upon an application of pressure to the opposite end thereof, the first named



end of the pedal having a projecting arm at one side thereof, the pivotal connection of the pedal to the treadle lever being more nearly adjacent the second named than the first named end thereof, whereby the weight of the treadle normally tends to maintain the dog out of engagement with the rack.

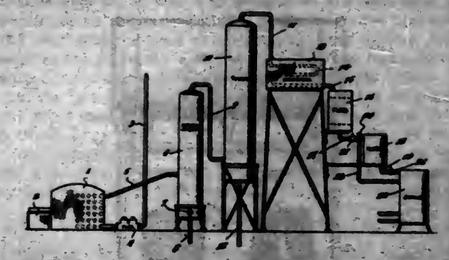
1,752,708. DIFFERENTIAL MOTION FOR ROVING FRAMES AND THE LIKE. WALTER C. STEWART, Gastonia, N. C., assignor to Emanuel Frohman, Gastonia, N. C. Filed Sept. 6, 1929. Serial No. 390,785. 4 Claims. (Cl. 118—33.)



4. In a differential motion for roving frames and the like, a housing, a sleeve mounted within the housing and having a disk supported by said sleeve within the housing, an internal gear in said housing, a sleeve and spur gear mounted within the housing and projecting outwardly from said housing, a gear mounted on the last named sleeve, a plurality of pinions mounted on the disk which is integral with one of the sleeves, a portion of said pinions being adapted to mesh both with the spur gear and other pinions, and the other pinions being adapted to mesh with the internal gear in the housing.

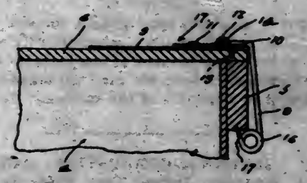
1,752,709. GASOLINE-FILTERING SYSTEM AND APPARATUS. BERRY VINCENT STOLL, Louisville, Ky., assignor to Stoll Oil Refining Company, Louisville, Ky., a Corporation of Kentucky. Filed Mar. 14, 1929. Serial No. 347,059. 4 Claims. (Cl. 196—41.)

1. Apparatus for producing finished gasoline comprising refining means including a still and a condenser connected thereto and having a discharge pipe, a filter having its inlet connected with the discharge pipe of said condenser whereby the gasoline will be delivered directly from the condenser to the filter, an outlet pipe leading from said



filter, a mixer having the outlet pipe of said filter connected thereto, an outlet pipe for said mixer, and a storage reservoir having the outlet pipe of the mixer connected thereto.

1,752,710. COVER-RETAINING MEANS. REYNOLD A. SWANSON, Montrose, S. Dak. Filed Jan. 11, 1929. Serial No. 331,940. 2 Claims. (Cl. 292—300.)



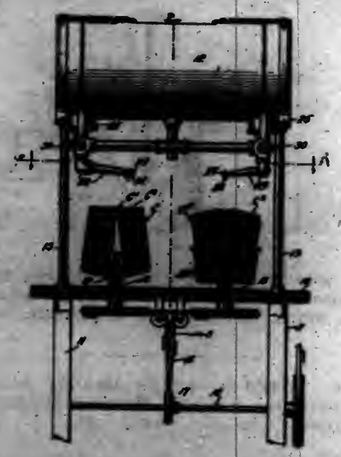
1. As a new product of manufacture, a cover fastener of the class described comprising an attaching plate and a substantially U-shaped clamping member swingably mounted on one end portion of said plate, the arms of said member terminating in coils, and resilient retaining hooks.

1,752,711. SCALE. NORMAN TATHAM, Los Angeles, Calif. Filed May 28, 1928. Serial No. 281,092. 5 Claims. (Cl. 265—68.)



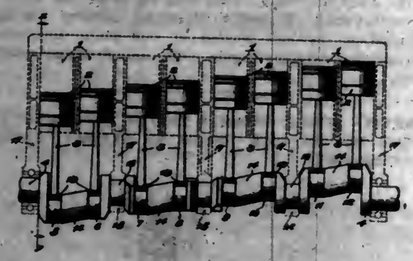
1. In a scale, in combination with a base and a platform movably mounted on the base having an upwardly extending rod movable by the platform, an indicating mechanism including a pawl, an indicating hand, and a lever operatively connected to said indicating hand having means by which the lever and the indicating hand are held in inoperative position when engaged by said pawl and adapted to move when released by the pawl so as to follow the said rod upon a downward moving of the said platform.

1,752,712. DYEING APPARATUS. LOUIS A. UTTRICH, Albany, N. Y., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y., a Corporation of New York. Filed June 6, 1927. Serial No. 196,654. 4 Claims. (Cl. 8—19.)



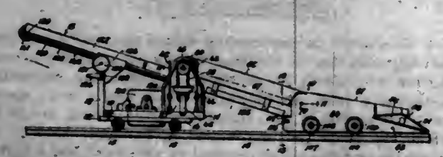
1. A dyeing machine, comprising a support for a wound mass of yarn, and means for intermittently applying dye to parts of the upper surface of the mass so that the dye applied to each part descends into the mass before dye is again applied to that part of the surface.

1,752,713. INTERNAL-COMBUSTION ENGINE. WILLIAM J. WHATLEY, Dallas, Tex. Filed Nov. 28, 1927. Serial No. 236,282. 2 Claims. (Cl. 74—38.)



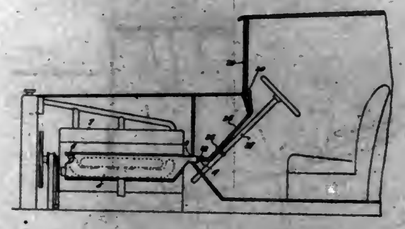
2. In an internal combustion engine, a series of alined cylinders arranged in pairs and each having a piston and a piston rod therein, an integral crank shaft having spaced pairs of cranks which latter are disposed in equi-distantly spaced progressively circular order and are connected by intermediate inclined parts, means to connect the rods to the cranks, connecting parts for adjacent pairs of the cranks extending across the space therebetween, and journals for said connecting parts.

1,752,714. COAL-LOADING MACHINE. ALBERT C. WILCOX, Bridgeport, Ohio. Filed June 6, 1927. Serial No. 196,790. 13 Claims. (Cl. 198—9.)



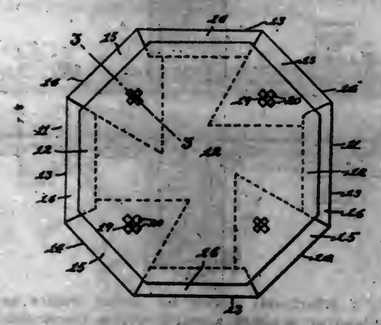
1. A loading machine comprising a wheeled truck, a carriage mounted on said truck for rotation in a horizontal plane, a wheeled scoop, a pivotal connection between said scoop and said carriage permitting said scoop to be moved vertically so as to rest either on the ground or with its wheels on track rails, tractor means carried by said scoop for moving the machine forwardly and rearwardly when the scoop is resting on the ground, and means for operating said tractor means.

1,752,715. WINDSHIELD HEATER. WILLIAM G. WOHLHUTER, Sherburn, Minn. Filed Apr. 9, 1929. Serial No. 353,818. 4 Claims. (Cl. 257—241.)



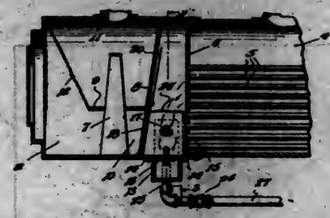
1. In a device of the class described, a stove forming a chamber for disposal over the exhaust manifold of an internal combustion chamber, the rear end of the stove merging into a cylindrical neck having an inturned terminal flange formed with a plurality of apertures, a sleeve extending to the flange, a ring mounted for rotation on the flange and having a plurality of apertures, and means for rotating the ring to control the registration of said apertures.

1,752,716. PAD FOR FRUIT CONTAINERS. JOHN H. WOODALL, Woodland, Ga., assignor to Georgia Cushion and Wrapper Company, Woodland, Ga., a Corporation of Georgia. Filed Mar. 10, 1928. Serial No. 260,620. 7 Claims. (Cl. 154—54.)



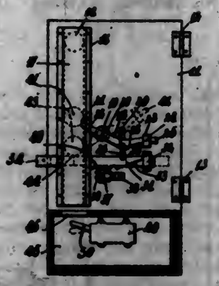
7. A cushioning pad for cylindrical fruit containers, comprising a fibrous bat of octagonal contour adapted to fit a cylindrical container and protective casing for the bat, said casing being formed of a square sheet of paper of greater superficial area than that of the bat, the square sheet of paper being preliminarily positioned on the face of the bat with the corners of the sheet in diagonal extension of opposite sides of the octagonal bat, said corners being subsequently folded over the adjacent sides of the bat to form a series of triangular folds extending over the back of the bat and those parts of the sheet between the triangular folds being folded over the adjacent sides of the octagonal bat to form a series of rhomboidal folds extending over the back of the bat in interspaced relation with the triangular folds, and a reinforcing backing extending over the back of the bat and pasted to the triangular and rhomboidal folds to close the casing.

1,752,717. SMOKE CONSUMER. ALBERT ADAMS, McMechen, W. Va. Filed Mar. 18, 1929. Serial No. 346,692. 9 Claims. (Cl. 110—50.)



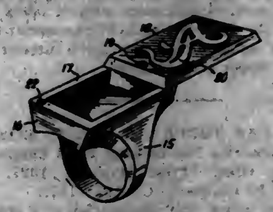
1. In combination with a boiler including a fire-box and smoke box having a partition therein defining a smoke passage through the smoke box, a gate in said smoke box movable into and out of position to block the smoke passage, a manifold beneath the rear portion of the smoke box and communicating therewith through openings in its bottom, downwardly opening check valves for said openings, piping leading rearwardly from said manifold to the fire-box, and nozzles extending into the fire-box to deliver products of combustion back into the fire-box.

1,752,718. COIN-CONTROLLED CALLING-CARD BOX. GIUSEPPE ANTIZZO, Brooklyn, N. Y., and GIUSEPPE LATORRACA, Newark, N. J. Filed Nov. 5, 1928. Serial No. 317,165. 4 Claims. (Cl. 194—40.)



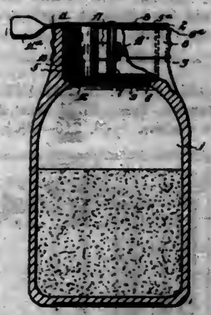
1. In a device of the class described a lever pivotally attached intermediately to a door, said lever provided with a free extremity positioned in a coin guide, said coin guide secured to the said door, a locking pin pivotally attached to a support, said support pivotally attached intermediately to the said lever, the said locking pin adapted to normally engage in a notch formed in a locking bar slidably mounted in a bracket secured to the said door and in the said coin guide, and a means for manually operating the locking bar from the outside of the said door.

1,752,719. LOCKET. LEO BAUM, Brooklyn, N. Y.; Alexander Russell Bond executor of said Leo Baum, deceased. Filed Feb. 17, 1927. Serial No. 168,863. 10 Claims. (Cl. 63—19.)



10. In a locket, the combination with a body portion, of a lid comprising a bar mounted to swivel on the body portion, the bar being formed with a groove in one of the side edges thereof, a plate formed with a tongue at one end adapted to enter the groove, a pin passing through the tongue and the groove and secured to the bar, said pin providing an axis on which the plate may turn and slide, the pin having a head at one end to limit sliding movement of the plate, the under side of the plate being formed with a rim, and a mirror secured to the plate within the rim, the latter being formed with a boss on the side opposite the tongue, the body portion being formed with a depression adapted to receive the boss when the lid is in closed position, and the lid being slightly curved so that the side carrying boss will bear with considerable pressure against the body portion when the lid is in closed position.

1,752,720. SUGAR DISPENSER. ISADORE BERGELSON, Philadelphia, Pa., assignor of one-half to Morris Rosen, Philadelphia, Pa. Filed July 21, 1928. Serial No. 294,368. 4 Claims. (Cl. 221—108.)



1. A dispenser device for containers comprising a housing fitting within the neck of the container, said housing having a bottom with an inlet opening from the container through the same, a retaining cap fitting over the mouth of the container and having an outlet opening out of line with the aforesaid inlet opening in the bottom of the housing, a pin extending between the cap and bottom of the housing at the center thereof, spaced apart disks rotatably mounted on the pin against the inner sides of the bottom and cap and having a dispenser chamber interposed between them and opening out of each disk, and means for rotating the disks.

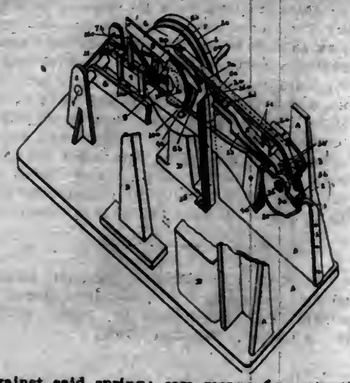
1,752,721. METHOD OF PREPARING ADSORBENT MATERIALS. HAROLD E. BIERCE, Los Angeles, Calif. Filed May 9, 1928. Serial No. 276,516. 3 Claims. (Cl. 252—2.)

1. The method of treatment of earthy materials to increase the adsorptive properties thereof which comprises mixing an earthy material with solid oxalic acid and heating the mixture in the absence of added water to a sufficient temperature to cause reaction between said oxalic acid and said earthy material.

1,752,722. SOLE STITCHER. JOHN B. BIRRER, Alhambra, Calif. Filed July 14, 1926. Serial No. 122,324. 2 Claims. (Cl. 112—61.)

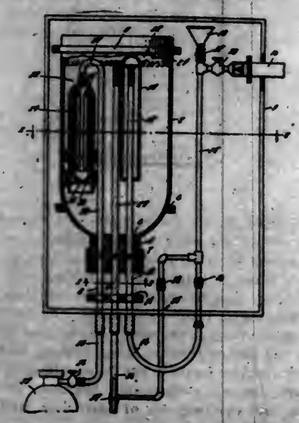
2. In a sole stitcher of the character disclosed, a lever pivoted forward of its center to afford vertical motion of its arms; the forward end thereof terminating in a slotted foot adapted to co-act with a corresponding fixed slotted plate in locking action on the work; a cam mounted to rotate beneath and contact with the long arm terminal of said lever; spring means for operating said cam to raise said long arm of said lever and maintain the same in

raised position; a ratchet wheel fixed to said cam; a pawl adapted to coact with said ratchet wheel to rotate said



cam against said spring; cam means for actuating said pawl to rotate said first cam at predetermined times, all as substantially set forth.

1,752,723. CHLORINATING APPARATUS. WILLIAM C. BLACKMOND, Ranger, Tex. Filed Mar. 29, 1929. Serial No. 350,975. 4 Claims. (Cl. 210—28.)



1. In a chlorinating apparatus of the class described, a support, a container on said support, a gas dispenser located within said container, a gas supply drum, a valved connection between the drum and dispenser, an effluent tube in said container, a liquid supply leading into said container, said dispenser comprising a bulbous shaped receptacle, vent tubes located in said receptacle, and an inverted shell embracing said receptacle in spaced relation.

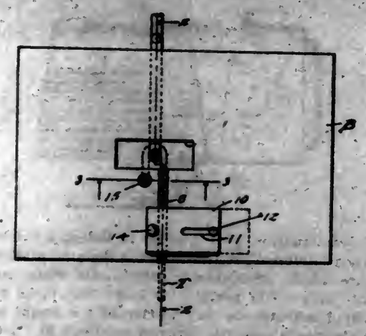
1,752,724. INTERNAL-COMBUSTION-ENGINE FUEL. IGNACE BOUAIS, Reno, Nev. Filed Mar. 4, 1926. Serial No. 92,326. 1 Claim. (Cl. 44—9.)

A fuel for internal combustion engines consisting wholly of gasoline with a relatively small proportion of alcohol in the proportion of substantially one ounce of alcohol to from ten to fifteen gallons of gasoline.

1,752,725. MOLD WASH. HARRY L. BRADEN, Youngstown, Ohio. Filed Aug. 3, 1927. Serial No. 210,465. 5 Claims. (Cl. 22—189.)

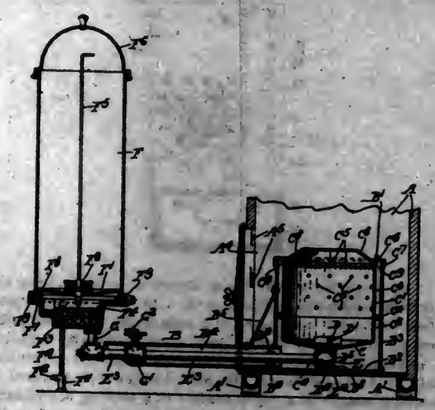
1. A mold wash intended for application to the surfaces of molds in which metal is to be cast, comprising a hydrocarbon base having a high decomposition temperature and creosote oil.

1,752,726. WIRE-TWISTING APPARATUS. ROBERT B. BRANNAKA, Roaring Branch, Pa. Filed Sept. 5, 1928. Serial No. 304,061. 4 Claims. (Cl. 140—104.)



1. A wire twisting apparatus comprising a member, a shaft rotatably supported by the member and provided with an eye forming finger, said member being provided with a recess to receive an end portion of the wire to be twisted before said wire is initially engaged around the finger.

1,752,727. HYDROCARBON BURNER. JAMES L. BREESE, Jr., Chicago, Ill., assignor to Oil Devices Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1927. Serial No. 243,782. 9 Claims. (Cl. 158—11.)

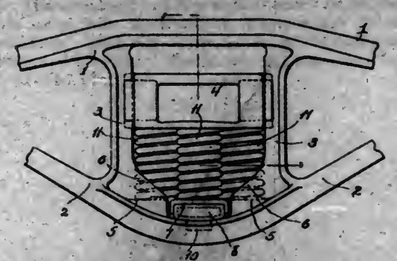


6. The combination with a hydrocarbon burner assembly including an outer drum and a perforated inner drum, of a fuel admission member in communication with said inner drum, said member having a liquid fuel inlet passage and a gaseous fuel inlet passage, said member including a portion positioned beneath the bottom of the inner drum and a portion positioned above the bottom of the inner drum and means for drawing them together about the drum bottom, including a passage member in screwthreaded relation with each, said passage member being in communication with the gaseous fuel inlet passage at its lower end and being in communication with the interior of the inner drum at its upper end.

1,752,728. CAR TRUCK. SAMUEL P. BUSH, Columbus, Ohio, assignor to The Buckeye Steel Castings Company, Columbus, Ohio. Filed May 26, 1927. Serial No. 194,353. 10 Claims. (Cl. 105—197.)

1. In a car truck, the combination of a side frame having an opening and having spring seats at the sides of the opening, a spring plank having its end inserted in

the opening in the side frame between the spring seats, and a member carried by the side frame and disposed



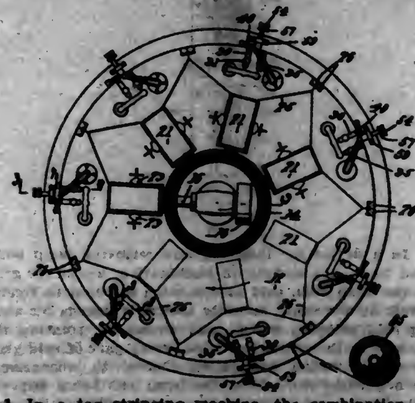
under the end of the spring plank to support the same on the same level with the spring seats, said member being interlocked with the spring plank.

1,752,729. ICE-CREAM CONE. DAVID CANTER, Mattapan, Mass. Filed Mar. 18, 1929. Serial No. 347,989. 2 Claims. (Cl. 99—10.)



2. An ice cream cone comprising a unitary molded shell shaped to present a plurality of contiguous but definitely formed open-topped compartments, said compartments at their top portions merging with each other and adapted to receive individual fillings of ice cream and to maintain such fillings in relative independent assembly during consumption of the cone, said shell beneath said compartments extending as individual closed bottom stems of reduced diameter constituting grasping portions having their generative centers substantially inset from the generative centers of their compartments, said stems being partially separated from each other along lines disposed in substantially the vertical axis of the cone as a whole.

1,752,730. TAG-STRINGING MACHINE. FRITZ O. CARLSON, Worcester, Mass. Filed May 14, 1928. Serial No. 277,624. 19 Claims. (Cl. 93—91.)



1. In a tag stringing machine, the combination of a stationary platform, with a movable support, a series of tag hoppers carried by said support and movable therewith, means for moving the tags from the hoppers into positions with their perforations exposed, a bodkin movable through the perforation in the tag and means for holding a string in a position below the perforation in the tag so as to be moved into the form of a loop by said bodkin.

1,752,731. BUMPER. LOUIS CARUSO, Irvington, N. J., assignor to The Lionel Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1929. Serial No. 333,562. 7 Claims. (Cl. 104—254.)



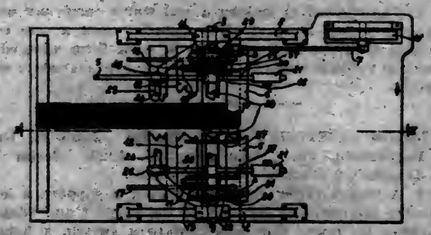
1. A bumper for toy railroads comprising a conducting body adapted to rest on the track rails of toy railroad track, an insulated contact supported from the body in a position to contact with a center or third rail, a lamp socket having one side grounded to the conducting body, and an insulated center contact connected with the first mentioned contact.

1,752,732. CUFF FASTENER. CHARLES V. CHUPRIN, Mount Carmel, Pa. Filed Dec. 28, 1928. Serial No. 328,958. 1 Claim. (Cl. 24—102.)



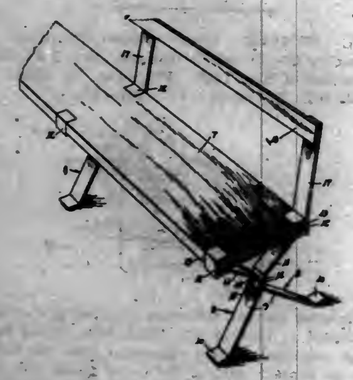
A cuff fastener comprising a pair of spaced parallel shanks having one end turned in opposite directions, heads having spaced walls rigidly mounted on the opposite ends of one of the shanks, heads having spaced walls pivotally mounted on the opposite ends of the other shank, said shank provided with pivot pins adjacent its ends for engagement with the inner walls of the heads and shanks further depending into said heads and abutting the outer walls thereof in a manner to provide a pivotal connection.

1,752,733. MACHINE FOR RUPTURING THE ENDS PROJECTING FROM WIRE HEDDLES. AUGUSTE GILBERT DAVID and PIERRE GISCLON, Villeurbanne, France. Filed July 27, 1928, Serial No. 295,811, and in France July 28, 1927. 10 Claims. (Cl. 140—72.)



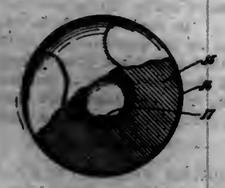
1. A machine for rupturing the ends of wire projecting from wire heddles, comprising means for maintaining the heddles; guides receiving the ends to be ruptured; and means for moving said guides whereby said ends are given a number of successive flexions causing their rupture.

1,752,734. COLLAPSIBLE SEAT OR BENCH. CHARLES ANDRE DUKE, New York, N. Y. Filed Apr. 4, 1928. Serial No. 267,306. 10 Claims. (Cl. 155—196.)



1. A seat standard comprising sections having hooks to engage the edges of a seat board, and means connecting said sections for moving them toward one another, said sections having fulcrum portions below said means adapted to contact with one another.

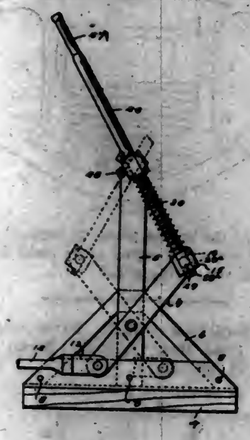
1,752,735. METHOD OF MAKING BALLS. JOHN R. GAMMETER, Akron, Ohio, assignor to A. G. Spalding and Bros., a Corporation of New Jersey. Filed Nov. 2, 1927. Serial No. 230,493. 5 Claims. (Cl. 154—16.)



1. The method of making a ball which comprises winding a covering layer of strip material upon a core comprising a mixture of materials in solid form adapted to react to produce a gas and causing the said materials so to react.

1,752,736. SWITCH-THROW STAND. JOHN O. GILL, Barnesboro, Pa. Filed June 29, 1929. Serial No. 374,699. 2 Claims. (Cl. 246—410.)

1. A switch throw stand comprising a support, a lever pivoted intermediate its ends to the support and adapted to have its lower end connected to a switch, a handle, means pivotally connecting an intermediate portion of the handle to the support, means pivotally and slidably connecting the lower end of the handle to the lever, and a coil spring surrounding the handle between and bearing at its ends against said means and normally tending to hold the handle and lever in angular relation, said means spacing the handle and spring from said support and



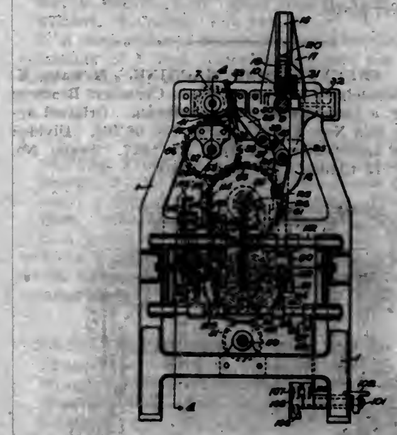
lever so as to permit the free compression and expansion of the spring during the movement of the handle and lever.

1,752,737. DEVICE FOR PLACING AND REMOVING LAMP BULBS. HAROLD D. GRINNELL, Pittsfield, Mass., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Mar. 13, 1928. Serial No. 261,230. 13 Claims. (Cl. 294—20.)



1. In a device for inserting and removing lamp bulbs in and from lamp sockets, in combination, means for gripping the lamp bulb, said means being disposed to receive the bulb by movement laterally toward it, means for actuating said gripping means, and means for rotating the lamp bulb in the gripped position, every part of said gripping means during application thereof to, engagement with, and withdrawal from, the lamp bulb being disposed wholly intermediate planes at opposite ends of the lamp bulb and transverse to the longitudinal axis of said bulb.

1,752,738. WINDING MECHANISM PARTICULARLY ADAPTED FOR PATTERN-SETTING FRAMES. BICKNELL HALL, Quincy, and EDGAR F. HATHAWAY, Wellesley, Mass., assignors to Shawmut Engineering Company, Dorchester, Mass., a Corporation of Massachusetts. Filed Nov. 30, 1926. Serial No. 151,662. 52 Claims. (Cl. 28—55.5.)



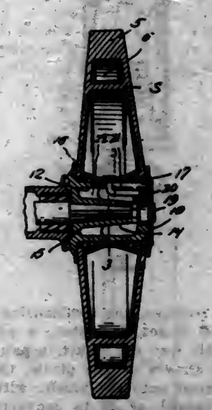
1. Winding mechanism particularly for pattern setting frames comprising, in combination, a rotatable support for a spool, a plurality of rotary members for feeding the yarn or yarns to the spool, a power-receiving element, and gearing connections between said element and the spool support, and between said element and the yarn feeding members, said last connections including automatic means whereby the rate of feed of said feeding members is increased as the spool is rotated.

1,752,739. APPARATUS FOR PUMPING LIQUIDS. FRANK A. HATFIELD, Los Angeles, Calif., assignor of fifty-one per cent to Waldo H. Logan and forty-nine per cent to Edson R. Wolcott, Los Angeles, Calif. Filed May 22, 1928. Serial No. 279,631. 4 Claims. (Cl. 103—239.)



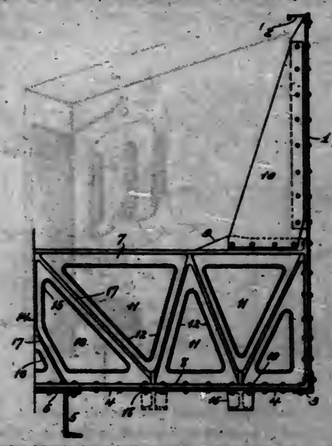
1. In apparatus for handling fluids, the combination of an outer pipe, a plurality of inner pipes extending within said outer pipe, two partition plates extending across the interior of said outer pipe and around said inner pipes and having bevelled seats at their adjacent faces and around said inner pipes, tapered gasket rings disposed around the respective inner pipes and within the spaces provided between said bevelled seats and tapering in the same general direction as said bevelled seats and clamping means on said outer pipe and operable to clamp said partition plates together and compress said gasket means and cause tight engagement thereof with said inner pipes.

1,752,740. HUB STRUCTURE FOR PNEUMATIC WHEELS. EDWIN JACKSON, Indianapolis, Ind. Filed May 2, 1928. Serial No. 274,501. 1 Claim. (Cl. 301—105.)



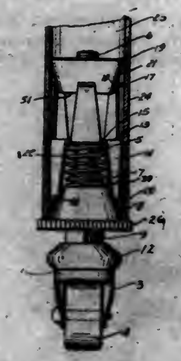
A pneumatic wheel hub comprising a hollow cylindrical body open at one end and provided with internal and external threads, an axle receiving bearing structure protruding inwardly of the body from the closed end thereof, a cylindrical flange at one end of the body, an internally threaded annulus for the opposite end of the body, said annulus being provided with a threaded opening therein through which the usual tire tube valve is accessible, an externally threaded plug for engagement within the threaded opening, a second plug for threadable engagement within the internally threaded end of the body and reinforcing ribs between the said bearing and the body.

1,752,741. BOLSTER. GEORGE T. JOHNSON and HARRY W. STERTZBACH, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Original application filed Apr. 13, 1928, Serial No. 269,692. Divided and this application filed Jan. 3, 1929. Serial No. 330,068. 10 Claims. (Cl. 105—230.)



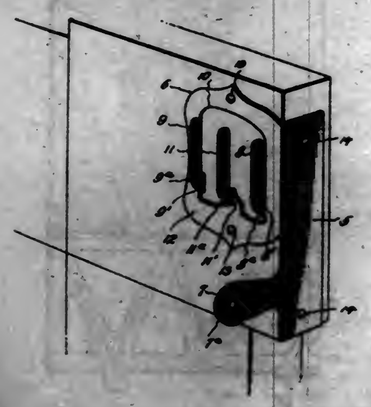
1. An inside bolster for car bodies of truss form from end to end, and provided at its medial portion with a centrally disposed strut having downwardly diverging portions united with the bottom of the bolster.

1,752,742. CASTER. WILFRED G. JOHNSON, Elyria, Ohio, assignor to The Colson Company, Elyria, Ohio, a Corporation of Ohio. Filed Apr. 8, 1927. Serial No. 181,992. 8 Claims. (Cl. 16—39.)



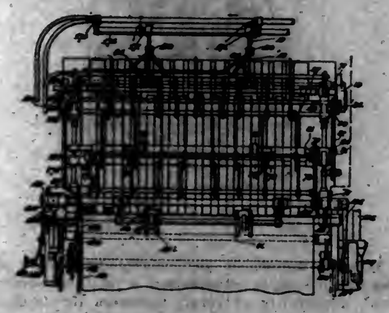
1. In a caster retainer, the combination with a caster support having a socket, a caster, a pintle supported thereby telescopable into the socket, a pair of superposed laterally tapered sleeves on the pintle, the upper sleeve being screw threaded onto the pintle, with its outer tapered surface disposed so as to converge downwardly, said other sleeve disposed at the lower end of the pintle and having its outer tapered surface converging upwardly, said last named sleeve comprising a lateral flange disposed exteriorly of the support socket, said support resting upon said flange, an integral resilient sheet metal expansible frame disposed about the pintle and interposed between the sleeves, said frame provided with a transversely extending intermediate portion, a plurality of resilient arms projecting upwardly from the border of said frame transverse portion, and a plurality of similar arms projecting downwardly therefrom, the converging surfaces of said sleeves engageable with said arms to force the arms outwardly against the inner walls of the support socket when the stem is rotated relative to the upper sleeve.

1,752,743. WINDOW FIXTURE. MYRTLE L. KALL, Alexandria Bay, N. Y. Filed Mar. 7, 1929. Serial No. 345,128. 1 Claim. (Cl. 156—24.)



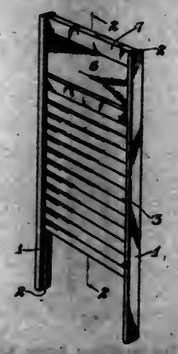
A window fixture comprising a single sheet metal plate having a flat vertical strip portion along one edge, an upper relatively large flat portion and a lower relatively small flat arm portion, both projecting from one longitudinal edge of said strip portion, and vertical rod supporting fingers stamped from said upper portion, said upper portion being bent into a plane at right angles to the plane of said strip portion, whereby one may lie against the inner side of a window frame and the other against an edge thereof, said arm portion being in the same plane as said strip portion and having an opening to receive a shade roller pintle.

1,752,744. SHEET-FEEDING MACHINE. HOWARD K. KING, Philadelphia, Pa., assignor to Chambers Brothers Company, a Corporation of Pennsylvania. Original application filed Nov. 4, 1925, Serial No. 66,763. Divided and this application filed July 15, 1927. Serial No. 205,872. 15 Claims. (Cl. 192—128.)



8. In combination with a sheet feeding machine, a press feeding guide, comprising a supporting frame and a vertically extending portion provided with a slot and flanking notches in its lower end, an air escape nozzle associated with the frame, a pivotally mounted nozzle controlling element having a portion movable in the slot, a guide plate in spring engagement with the lower edge of said vertically extending portion, and horizontally extending resiliently supported rods flanking said pivoted element and spaced above said guide plate with their free ends engaging said notches.

1,752,745. WASHBOARD. EDWARD C. KLAIBER, Memphis, Tenn., assignor to National Washboard Company, Chicago, Ill., a Corporation of West Virginia. Filed June 21, 1929. Serial No. 372,722. 1 Claim. (Cl. 68—29.)



In combination, a pair of spaced side rails longitudinally rabbeted along their inner faces, a rubbing board whose ends are received in said rabbets, a soap pan whose ends are likewise received in said rabbets, the middle part of one of the faces of said soap pan shaped to present a thinned panel and to present along its top and bottom edges respectively, a top bar and an intermediate soap-support bar, the thickness of said bars being substantially equal to the width of said rabbets, for the purposes set forth.

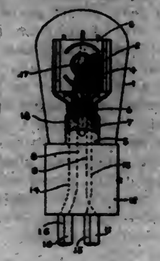
1,752,746. COMPOSITION FOR AND PROCESS OF CLEANING METAL. JAMES D. KLINGER and CLETE L. BOYLE, Detroit, Mich. Filed June 20, 1929. Serial No. 372,530. 6 Claims. (Cl. 148—8.)

1. A composition of matter to be used for cleaning metal, consisting of a rust removing acid and the mono-butyl ether of ethylene glycol.

1,752,747. ELECTRON-DISCHARGE DEVICE AND GETTER THEREFOR. ERNEST ANTON LEDERER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 10, 1926. Serial No. 93,792. 7 Claims. (Cl. 250—27.5.)

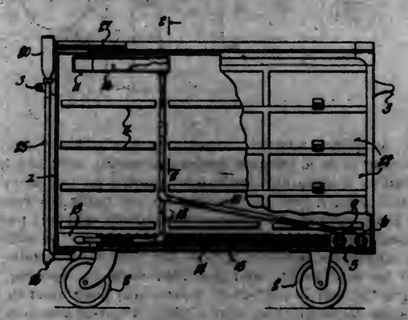
1. A getter for an evacuated container comprising a mixture of a phosphorus compound and a reducing agent which vaporizes upon heating the mixture to clear up residual gases.

1,752,748. PREVENTION OF ELECTRICAL LEAKAGE. ERNEST ANTON LEDERER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,301. 6 Claims. (Cl. 250—27.5.)



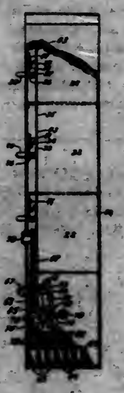
1. An electric discharge device comprising an envelope containing an alkali metal, current conductors sealed into the envelope and a coating of an inorganic salt containing oxygen on the interior surface of the envelope, between the current conductors.

1,752,749. HEATING AND HUMIDIFYING SYSTEM FOR FOOD CARTS. GEORGE A. LUECK, Milwaukee, Wis. Filed Sept. 27, 1928. Serial No. 308,631. 5 Claims. (Cl. 126—268.)



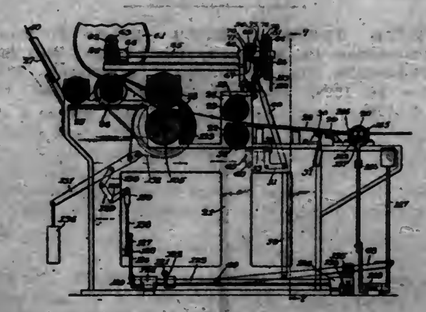
1. A food cart comprising a portable container having shelves therein and open throughout its interior portion, a heating chamber and a header located in spaced relation within and adjacent the bottom of said container, an upper tank, a riser connecting said heating chamber and upper tank, a pipe connecting said header and said upper tank, a radiator extending along the bottom portion of said container and within said container and joining said header and said heating chamber, and means for passing vapor from said upper tank into the interior of said container.

1,752,750. VENDING MACHINE. FRED L. MILLS, Oak Park, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1929. Serial No. 360,367. 4 Claims. (Cl. 194—1.)



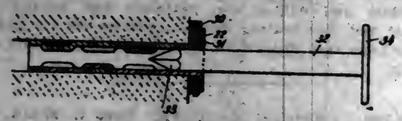
1. A vending machine comprising a commodity container, locking mechanism therefor requiring the use of both a key and a coin for the operation thereof to unlock the container, a coin box having a plurality of compartments therein, and means operable by the key to direct the coin used in the operation of said locking mechanism into one or another of the compartments in said box according to the length of the key employed.

1,752,751. MACHINE FOR MAKING ROOFING AND THE LIKE. ALBERT E. F. MOONE, Chicago, Ill., assignor to The Lebon Company, a Corporation of Illinois. Filed July 23, 1927. Serial No. 207,993. 19 Claims. (Cl. 164—68.)



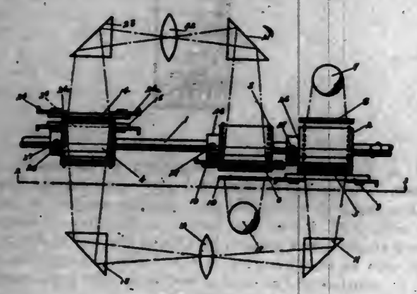
1. In a machine of the class described, roll forming mechanism, a cutter, means for feeding a continuous sheet past the latter, a measuring device driven by the sheet, means operated by the measuring device for setting the cutter in operation, and other means actuated by the cutter for stopping the feeding of the sheet.

1,752,752. EXPANSION SHIELD. RALPH E. OGDEN, Mountainville, N. Y., assignor, by mesne assignments, to J. Edward Ogden Company, New York, N. Y., a Corporation of New Jersey. Filed May 8, 1923. Serial No. 636,390. 12 Claims. (Cl. 85—24.)



1. In combination, an expansion shield comprising a pair of sheet metal sections, each section having tabs thereon overlapping and engaging the other section and having inwardly extending embossments on the inner surface thereof formed by depressions in the shield, said depressions receiving said tabs, and an expanding element adapted to be driven into the shield from the outer end thereof and having a diameter as great as the maximum inner diameter of the shield, said expanding element being adapted to engage the embossments and force outwardly the embossments and tabs.

1,752,753. OPTICAL PRINTER. FREEMAN H. OWENS, New York, N. Y., assignor to Owens Development Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1926. Serial No. 147,980. 8 Claims. (Cl. 88—24.)



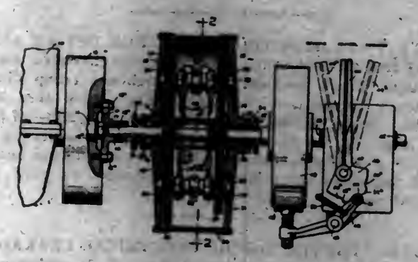
1. An optical printer comprising a rotatable shaft, a plurality of film moving devices on said shaft for engaging strips of negative film moved by two of said devices and a single strip of positive film moved by another of said devices, and optical means associated with said film moving devices arranged for projecting the images of said negative films to said positive film from opposite sides thereof.

1,752,754. THREAD CARRIER. HAROLD F. PAGET, Philadelphia, Pa., assignor to Haines Hosiery Mills, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 26, 1928. Serial No. 249,601. 2 Claims. (Cl. 66—126.)



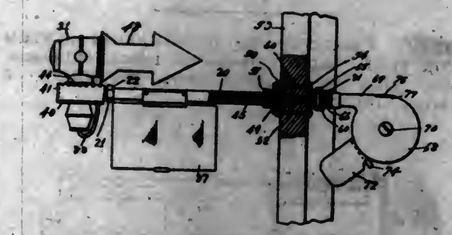
1. A thread carrier for full-fashioned hosiery machines comprising a flat strip of material curved at its forward end and provided on its outer face at its forward end with a plurality of laterally spaced inclined grooves, the curved forward end having a plurality of apertures opening into said grooves and opening through said forward end, and thread carrying tubes inserted in said apertures and communicating with said grooves.

1,752,755. AUTOMATIC VARIABLE TRANSMISSION MECHANISM. WILLIAM PITT, Brooklyn, N. Y. Filed July 12, 1928. Serial No. 292,144. 2 Claims. (Cl. 74—34.)



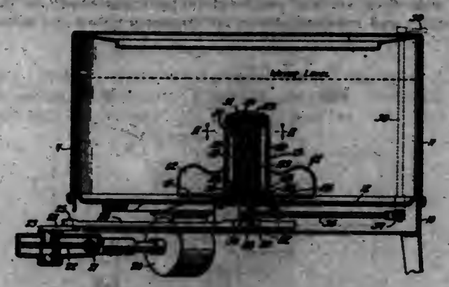
1. A variable transmission mechanism for automobiles and the like comprising a casing, a sun gear mounted in said casing, a driving shaft mounted in said casing and secured to said sun gear, planet gears meshing with said sun gear, shafts for said planet gears revolvably mounted in said casing, a second set of planet gears respectively secured to said planet gear shafts, a second sun gear meshing respectively with said second set of planet gears, a driven shaft secured to said second sun gear and rotatably mounted in said casing, said planet gear shafts including crank shaft portions, a set of centrifugal devices corresponding to said planet gear shafts, a link for each centrifugal device pivotally connecting its centrifugal device with one of said crank shaft portions and a link for each centrifugal device connecting its centrifugal device with an associated planet gear shaft.

1,752,756. TRAFFIC INDICATOR. HENRY ROHRDANTZ, Philadelphia, Pa. Filed Feb. 5, 1929. Serial No. 337,549. 6 Claims. (Cl. 116—46.)



1. A traffic indicator comprising a stationary arm for attachment to a suitable support, a spring actuated index including a lamp and indicator mounted on the outer end of said arm, a belt connected with the index for rotating the same against the action of the spring, said belt passing through the stationary arm, a pulley supported adjacent the operator's position within the vehicle, a handle carried by said pulley and provided with an opening into which the belt is projected, means also positioned in said opening to secure the belt, a plate disposed on each face of the pulley, and means for forcing one of the plates against the pulley, a portion of said means also acting as an axle for the pulley.

1,752,757. WASHING-MACHINE-AGITATOR MECHANISM. SIMON E. SCHROEDER, Minier, Ill. Filed Dec. 24, 1928. Serial No. 328,216. 16 Claims. (Cl. 259—101.)



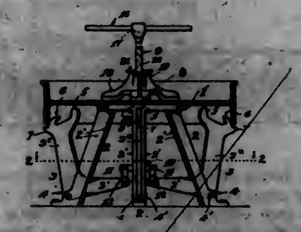
1. In a washing machine having an agitating mechanism projecting from the bottom of the tub, the combination of stationary means mounted on the bottom of the tub, oscillating means projecting through said stationary means, an agitator mounted on said oscillating means and driven thereby, and a flexible liquid-tight connection between said stationary means and said oscillating means.

1,752,758. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS OR LIQUORS BY FILTRATION. JOHN T. SHIMMIN, Hurley, N. Mex. Filed May 4, 1925. Serial No. 27,804. 5 Claims. (Cl. 210—199.)



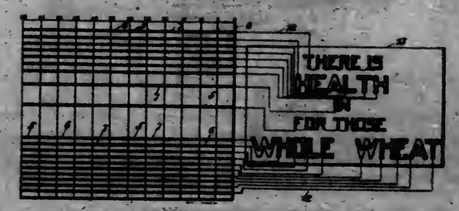
1. In filtering apparatus, a filtering element comprising a support having a recessed concave face, a filtering medium extending across and normally spaced from said face, and casing means cooperating with the support to form a closed cell, said concave face being provided with means for supporting and maintaining the filtering medium in a smooth concave curve when external pressure is applied to the filtering medium.

1,752,759. MACHINE FOR USE IN REMOVING TIRES FROM WHEELS AND RIMS. JOSEPH B. SMITH, Havana, Ill. Filed Dec. 7, 1927. Serial No. 238,414. 3 Claims. (Cl. 144—288.)



1. A machine for use in removing tires from wheels including in its construction a stand having a table-top and supporting legs, a series of L-shaped levers pivoted each at its angle upon one of the legs, one of the arms of each lever having a substantially vertical position, the arm of each said lever having at its upper end a ledge extending outwardly therefrom, a rod extending through the table-top, having operative engagement with the other arms of the levers, and said rod having threaded engagement with said table-top, a member to engage over the rod and lie upon a wheel resting upon the table, and means adjustable with respect to the rod to bear upon the member, all being arranged whereby a turn of the rod will clamp the wheel between the member and table-top.

1,752,760. ELECTRIC SIGN AND METHOD OF ITS OPERATION. GEORGE W. TARKINGTON, Silver Plume, Colo. Filed Dec. 20, 1923. Serial No. 681,888. 4 Claims. (Cl. 177—346.)



3. A display device comprising a word and letters additional to the letters of the word and corresponding with letters of the word, the several letters being capable of separate illumination, and means to illuminate the entire word and then extinguishing certain letters of the word and simultaneously illuminating corresponding letters outside the word.

1,752,761. METHOD AND MEANS FOR EXTRACTING ESSENTIALS FROM COFFEE AND OTHER SUBSTANCES. GEORGE W. TARKINGTON, Silver Plume, Colo. Filed July 5, 1924. Serial No. 724,383. 18 Claims. (Cl. 53—8.)

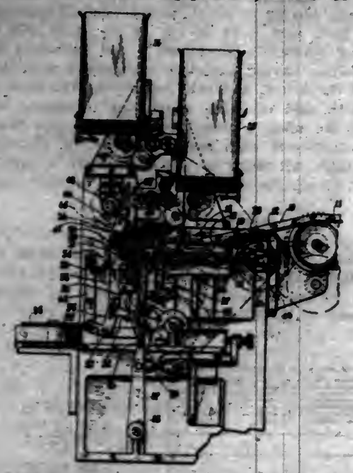


2. A device for making extracts comprising a container, a filter medium at the bottom thereof, and means to automatically maintain a pressure less than atmospheric at the opposite end of the container, in indirect ratio to a diminishing quantity of infusion in the container while the liquid in the infusion passes through the filter medium.

1,752,762. WRAPPING MACHINE. JOHN VAN BUREN, Brooklyn, N. Y. Filed Feb. 24, 1925. Serial No. 11,038. 6 Claims. (Cl. 93—2.)

1. In a mechanism of the character described, an oscillatory member having a slot or pocket, the pivot of said member being disposed substantially in alinement with a portion of the pocket, means for oscillating said member through an angle of substantially 90° from receiving to

discharging position and reversely through an angle of substantially 90° to receiving position, means for feeding



an article and wrapper into said slot and means secured to said oscillatory member and disposed at the end of the slot for folding the ends of the wrapper.

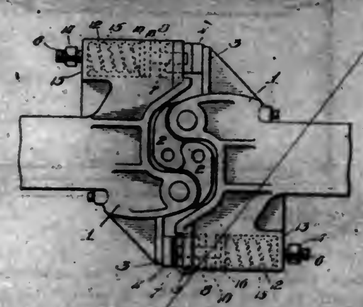
1,752,763. ELECTRIC SWITCH. HERBERT E. VAN DORN, Chicago, Ill., assignor to William E. Van Dorn, Pasadena, Calif. Filed July 13, 1928. Serial No. 292,465. 4 Claims. (Cl. 200—82.)



1. In combination, a casing, stationary contacts in said casing, an oscillatory switch member arranged in the casing and co-operating with said contacts, a rock shaft extending across the casing parallel with said member, an arm on one end of said shaft, a spring arranged between the casing and the aforesaid arm, a second arm on the opposite end of the shaft, a pneumatic motor co-operating with said second arm to rock the shaft in opposition to the spring, a third arm on said shaft, and a connection between said third arm and said oscillatory member.

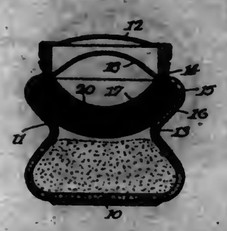
1,752,764. COMBINED COUPLER HEAD AND BUFFER. HERBERT E. VAN DORN, Chicago, Ill., assignor to William E. Van Dorn, Pasadena, Calif. Filed Sept. 21, 1928. Serial No. 307,491. 1 Claim. (Cl. 213—109.)

In combination, a coupler of the swinging knuckle type having on one side a wide deep wing whose front face lies in a vertical transverse plane and extends approximately equal distances above and below a horizontal plane containing the central longitudinal axis of the coupler, a buffer element on the other side of the coupler comprising a wide deep vertical plate extending transversely of the coupler and substantially equal distances above and below



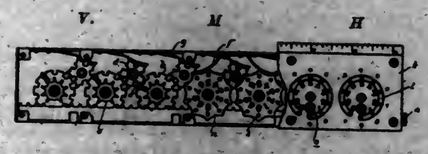
said horizontal plane containing the longitudinal axis of the coupler, a bracket on the coupler behind said plate, parallel stems extending between the plate and said bracket and permitting the plate to move backward and forward, one of said stems being above and the other being below the last-mentioned plane, and compression springs lying behind the plate and between the same and the bracket.

1,752,765. APPLICATOR FOR TOILET PREPARATIONS. ROBERT H. VAN SANT, Chicago, Ill. Filed Apr. 5, 1928. Serial No. 267,575. 2 Claims. (Cl. 132—78.5.)



1. An applicator for applying toilet powder to shaven or clipped skin, comprising a pair of superimposed peripherally connected layers of woven material having an exterior surface of uncut loops, stiffening material between the layers of woven material, padding between the stiffening material and the layers of woven material, and a finger strap arching across one face of the device and having its ends inserted between and secured to the layers of woven material.

1,752,766. CALCULATING APPARATUS. ANDERS ERIKSON VETHE, Oslo, Norway. Filed Feb. 9, 1926, Serial No. 87,120, and in Norway Feb. 10, 1925. 2 Claims. (Cl. 235—140.)



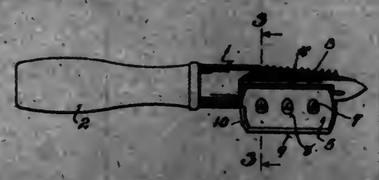
1. In a device of the class described, the combination of indicating discs rotatably mounted on axes in spaced relation to each other, a gear connected with one of said indicating discs for rotation therewith, a finger connected with the other of said indicating discs for movement therewith, and toothed driving means rotatably mounted in operative relation to both said gear and said finger and comprising broad tooth portions with which said finger engages for rotating the driving device and comparatively longer and narrower tooth portions extending beyond the broad tooth portions adapted by engagement with said gear to drive the gear and connected indicating disc.

1,752,767. PRINTING-PRESS BED. WALLACE S. WARNOCK, Chicago, Ill. Filed Feb. 27, 1928. Serial No. 257,407. 8 Claims. (Cl. 101—388.)



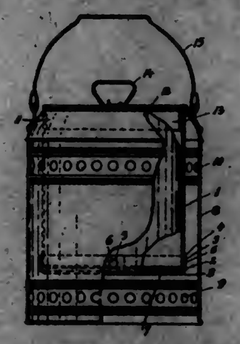
1. A printing bed having a groove formed therein for receiving the body portion of a plate engaging clamp, in combination with an elongated gear inserted within said groove, and a retaining bar inserted between the bottom of the groove and a lower portion of said gear to position such gear.

1,752,768. PEELER. PAUL F. WORST, Milwaukee, Wis. Filed Jan. 20, 1927. Serial No. 162,316. 2 Claims. (Cl. 30—20.)



1. A peeler comprising a cylindrical body portion having a slot, a handle projecting from one end of said body portion, an apertured blade carried by said body portion and having an edge extending through said slot adjacent one side thereof, a plurality of tongues formed integrally with said body portion and detachably holding said blade, said body portion having channelled lips housing the edge of said blade remote from said slot and one end thereof.

1,752,769. COOKER. HENRY A. ZIOLA, Toledo, Ohio, assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio, a Corporation. Filed June 25, 1928. Serial No. 288,022. 2 Claims. (Cl. 53—1.)



1. A unitary cooking device of the character described, comprising a jacket having a heat receiving bottom opening, a vessel fastened to the upper end of the jacket and disposed within and spaced from the wall of said jacket, said jacket having means for causing a draft upwardly through said space, the base of said vessel being disposed above the base of the jacket, and means secured to the base of the vessel to prevent direct contact of a flame with said base.

1,752,770. ELECTRIC-CIRCUIT CONTROL LOCK-SWITCH DEVICE FOR AUTOMOBILES. FRANCIS J. ARMSTRONG, Brooklyn, N. Y., assignor to D. Stewart Craven, Salem, N. J. Filed Apr. 17, 1925. Serial No. 23,831. 7 Claims. (Cl. 200—44.)



1. In an electric circuit control device comprising a switch mechanism having a cylinder provided with an irregularly contoured opening therethrough and a shiftable disk provided with a slot registerable with one end of said opening by shifting the disk, and baffle means across the slot, a key having an irregularly contoured body portion conforming to said opening for insertion therein for passing therethrough to shift the shifting disk and having means for avoiding said baffle means for entering the slot of the shifting disk for operating the switch mechanism.

1,752,771. BATHING SUIT. CARL OTTO AST, Los Angeles, Calif., assignor to Pacific Knitting Mills, Inc., Los Angeles, Calif., a Corporation of California. Filed Oct. 13, 1928. Serial No. 312,800. 1 Claim. (Cl. 2—67.)

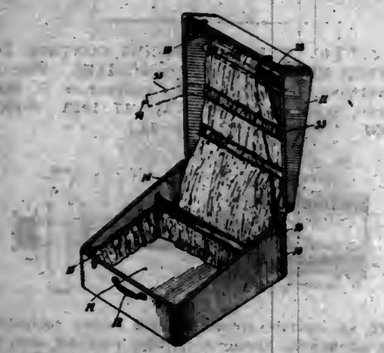


A bathing suit comprising a body of knit material having its ribs running vertically throughout its upper body portions, and throughout the front and sides of the body portion, there being an opening in said body embracing the seat portion thereof, said opening having upwardly and outwardly flaring edges; and a separate seat portion of knit material, having its ribs running horizontally, larger than and inserted and secured at its edges in said opening, there being upwardly and outwardly flaring pleats formed at each side of said seat portion to give horizontal expansibility thereto.

1,752,772. WARDROBE HATBOX. SAMUEL BALIN, New York, N. Y., assignor to United Auto Trunk Co., New York, N. Y., a Corporation of New York. Filed Apr. 20, 1928. Serial No. 271,500. 2 Claims. (Cl. 190—18.)

1. A traveller's case comprising a rectangular container having a body and cover portion hingedly united, each being provided with handles at the front, the side edges of said body and cover being inclined upwardly from the front to the rear, a transverse partition in said body forming a main forward compartment and a rear-

row rear compartment, brackets fixed to the inner side walls of said cover at its deeper front portion one of said brackets having rectangular openings and a slot having downreaching recesses in the other bracket, the recesses terminating in raised niches at their forward ends, clothes hangers having square pintles at their ends to enter the openings in the first named bracket, their op-



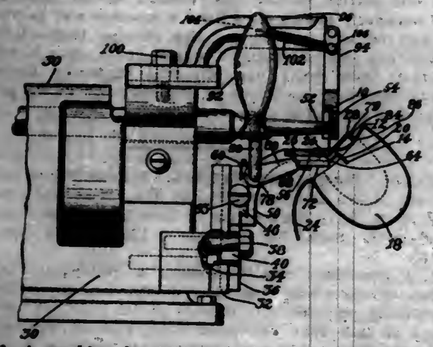
posite ends adapted to pass into the slot in the other bracket to eventually engage in the niches, resilient means to retain the pintles entered in the niches, and elastic straps in said cover to confine articles on said hangers against the inner surface of said cover, the lower ends of said articles entering the narrow compartment in said body.

1,752,773. BALANCE FOR WATCH MOVEMENTS. BETHEL J. BATES, Cleveland, Ohio, assignor of one-half to Albert S. Gregg, Cleveland, Ohio. Filed Aug. 1, 1927. Serial No. 209,845. 1 Claim. (Cl. 58—115.)



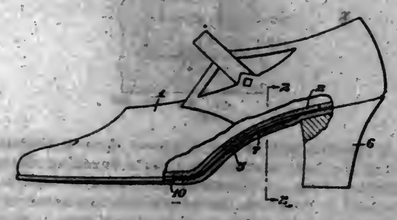
The combination of a staff and balance wheel, a collet on the wheel having a slot, the ends of the collet adjacent the slot being thickened and flattened on the inside, and a hair spring having a hook at its inner end the bend of which extends through said slot and the end of which is confined against one of the flattened surfaces and between the collet and the staff, the end of the collet acting as a wedge to prevent lost motion.

1,752,774. HEEL-COVER-TRIMMING MACHINE. LEWIS J. BAZZONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 4, 1929. Serial No. 360,529. 30 Claims. (Cl. 12—42.)



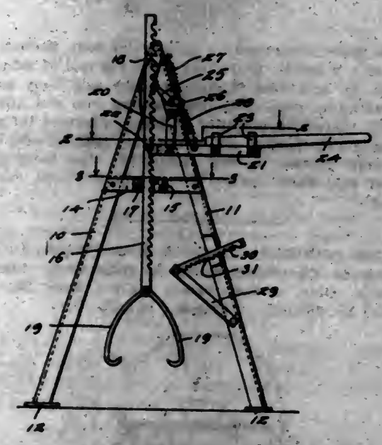
1. A machine for trimming heel coverings having, in combination, means to trim a marginal portion of a covering attached to a heel to prepare said portion for insertion in a groove in the breast of the heel, and means to position the heel and the marginal portion of the covering relatively to the trimming means, the trimming means and the last-named means being mounted for relative movement progressively to carry out the heel trimming operation.

1,752,775. BOOT OR SHOE AND SHANK STIFFENER THEREFOR. HERBERT BEE, Manchester, N. H., assignor to Woodbury Shoe Mfg. Co., Derry, N. H., a Corporation of New Hampshire. Filed June 6, 1929. Serial No. 368,797. 2 Claims. (Cl. 36—76.)



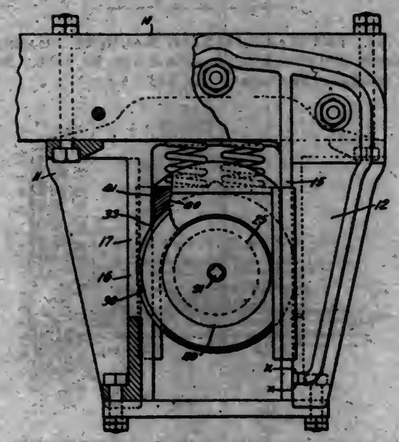
2. A metallic arch supporter of the kind described, comprising a curved body portion, and a forward end curved in a direction reverse to the curve of the body portion, the said curved end of said forward portion being beveled on its under surface to provide a sharp upper edge on said forward portion.

1,752,776. JACK. NOAH A. BOYETTE, Habira, Ga. Filed Apr. 24, 1928. Serial No. 272,515. 1 Claim. (Cl. 254—111.)



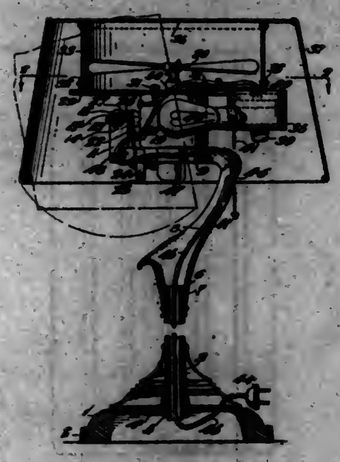
A jack comprising a standard, a rack bar, an actuating lever pivoted to the standard and adapted to engage the teeth of the rack bar with its inner end, a pawl pivoted to the standard and having a tail, a spring engaging the tail of the pawl and secured to the standard and urging said pawl into engagement with the teeth of the rack bar, and a spring connected with said lever and connectible to the tail of the pawl, said spring when connected to the tail of the pawl overcoming the tension of the first named spring to maintain the pawl out of engagement with the teeth of the rack bar until the inner end of the lever has been lowered to a predetermined extent.

1,752,777. ROLLER BEARING AND MOUNTING THEREFOR. WILHELM B. BRONANDER, Montclair, N. J. Filed June 11, 1927. Serial No. 198,111. 15 Claims. (Cl. 105—224.)



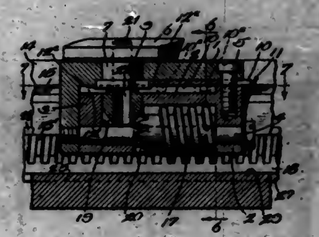
1. In combination, a pedestal having a pair of inwardly facing frame members, a roller bearing mounting comprising a one piece yoke slidably supported between said side frames and a roller bearing including an outer race having a spherical outer surface engaging and tiltably mounted in said yoke.

1,752,778. COOLING, DRYING, AND LIGHTING FIXTURE. WILLIAM ALLEN BROWN, Philadelphia, and ELBERT A. CORMIN, Jr., Swarthmore, Pa. Filed May 27, 1926. Serial No. 111,905. 2 Claims. (Cl. 240—2.)



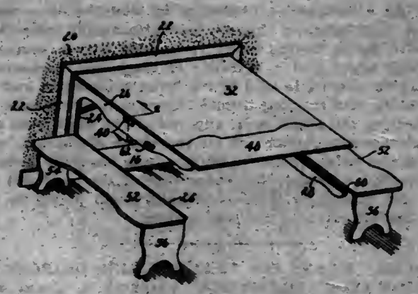
1. In a combined cooling and lighting device, a support, a blower and its motor mounted as a unit to oscillate on said support, a junction box and a light connected with and forming a part of said movable unit, the center of gravity of said unit being out of coincidence with the axis of said support in any position it can assume relatively to said support, and a shade contributing with the blower to direct heat from the light away from a person using the light.

1,752,779. PRINTING-PRESS BED. GEORGE F. BRYANT and WALLACE S. WARNOCK, Chicago, Ill. Filed Mar. 23, 1928. Serial No. 263,984. 3 Claims. (Cl. 101—388.)



1. A printing bed having a groove formed therein for receiving the body portion of a plate engaging clamp and which has two lateral enlargements in its opposite sides extending longitudinally of the groove at the bottom thereof, the upper portion of each of said lateral enlargements having an upwardly extending mortise continuation, the lower portion of each of said lateral enlargements having a downwardly extending mortise continuation; in combination with two laterally spaced apart elongated gears having body portions formed with tenons which are received within the corresponding mortise continuations of said lateral groove enlargements, the teeth of each of said gears projecting from the bodies of the gears into position to be engaged by gearing upon the clamp body.

1,752,780. TABLE STRUCTURE. WILLIAM C. BUITEN, Lansing, Ill., assignor of one-half to Paul N. De Wit, Lansing, Ill., and one-half to Frank N. De Wit. Filed May 21, 1928. Serial No. 279,330. 8 Claims. (Cl. 155—124.)

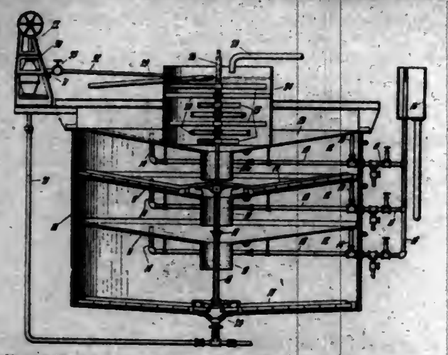


1. A structure of the character described, comprising a casing open at one side, a wing hinged to one wall of said casing and adapted to be folded therein, a table member hinged at the top of said casing and adapted to form a closure for the open side thereof, said wing being movable out of said casing and beneath said table member to support the latter in horizontal position, and a bench hinged to said wing and adapted to be extended to operative position adjacent one end of the table member.

1,752,781. DEFECATION OF SUGAR JUICE. ARTHUR W. BULL, New York, N. Y., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1927. Serial No. 186,684. 6 Claims. (Cl. 127—46.)

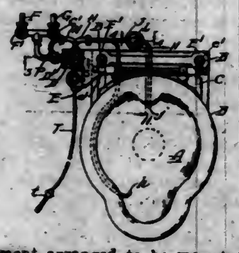
1. In a process of manufacturing sugar in which the sugar bearing juice is treated to precipitate impurities,

the step which comprises agitation of the treated juice for a period sufficient to obtain substantially complete flocculation and at a rate adequate to maintain a substan-



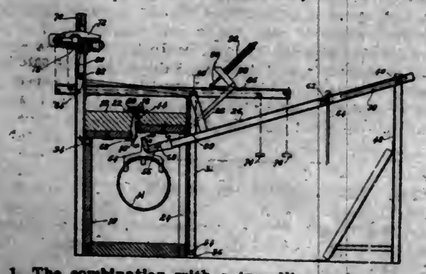
tially uniform suspension of all flocs but insufficient to prevent the formation and maintenance of flocs of substantially maximum size.

1,752,782. WATER-CLOSET ATTACHMENT. CHARLES G. BURTON, Salem, Ohio. Filed July 31, 1929. Serial No. 382,843. 6 Claims. (Cl. 4—7.)



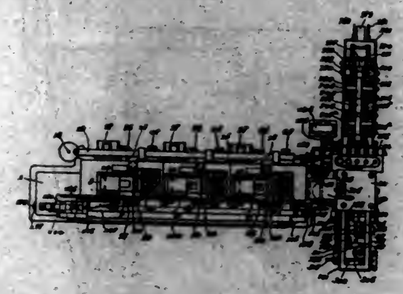
1. An attachment arranged to be mounted on a water closet bowl laterally thereof, said attachment comprising a valve fitting having inflow connection with a source of flushing water and a plurality of discharge connections, the valve member in said fitting being constructed and cooperating with the body member for adjustment therein for connecting the inflow with any one of the discharges and simultaneously cutting off all the other discharges, said discharges being arranged leading from the body member of the fitting between the upper edge of the bowl and the seat for discharge in the bowl at different points in the fore-and-aft extent of the seat opening.

1,752,783. MEANS FOR TRANSFERRING OBJECTS TO HOOK-TYPE CONVEYERS. FREDERIC R. COLBY and ARNOLD L. LARSEN, Toledo, Ohio, assignors to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Sept. 12, 1928. Serial No. 305,458. 15 Claims. (Cl. 214—18.)



1. The combination with a traveling conveyer and an object-supporting member adapted to be removably suspended thereon, of a carrier for said member movable toward and away from said conveyer, shiftable means carried by said carrier and adapted to releasably support said member, and means for releasing said means whereby said member may be shifted from the carrier to the conveyer.

1,752,784. ENVELOPE-FILLING MACHINE. HAROLD B. COLLINS, Philadelphia, Pa. Filed Apr. 30, 1926. Serial No. 105,751. 14 Claims. (Cl. 133—4.)



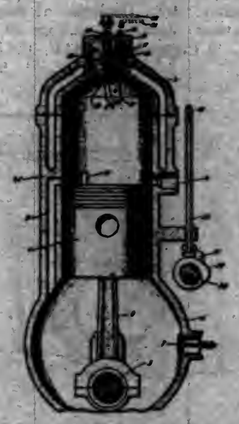
1. In an envelope-filling machine, the combination of a plurality of note-holding containers, pneumatic devices for effecting delivery of notes from said containers, a reciprocating member for conveying the said notes to a central point, a conveyor for delivering coins to said central point, a conveyor for delivering envelopes successively to said central point, and means acting automatically for placing the said notes and coins in said envelopes, said means comprising a rotatable support for the said envelopes.

1,752,785. RADIATOR. LOUIS COURTOT, Paris, France, assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 8, 1926, Serial No. 134,157, and in France Sept. 11, 1925. 7 Claims. (Cl. 257—151.)



5. A radiator comprising upper and lower hollow headers, a series of tubular bosses extending therefrom, relatively thin tubes associated with said bosses, each of said tubes comprising two substantially semi-cylindrical parts united along their longitudinal edges, and annular reinforcing members secured within the ends of said tubes and fitted upon said bosses, substantially as specified.

1,752,786. OIL-BURNING ENGINE. CLESSIE L. CUMMINS, Columbus, Ind., assignor to Oil Engine Development Company, Columbus, Ind., a Corporation of Indiana. Original application filed July 30, 1924, Serial No. 729,143. Divided and this application filed Sept. 14, 1925. Serial No. 56,213. 2 Claims. (Cl. 123—32.)



1. In an oil engine, the combination of a cylinder and a piston operable therein, and a fuel vaporizing and injecting device comprising a chamber having a convex seat and restricted communicating ports opening into said chamber approximately at the edge of said seat, means for depositing fuel at the apex of said seat, a plunger in said chamber, and means for retracting said plunger so that the air forced from the combustion space through said ports sweeps said convex seat to thoroughly vaporize and mix the liquid fuel with the air, and for advancing said plunger to eject the mixture of air and fuel from said vaporizing chamber through said communicating ports into the combustion space.

1,752,787. SHOE. DAVID A. CUTLER, Wollaston, Mass. Filed Sept. 5, 1928. Serial No. 304,113. 5 Claims. (Cl. 36—14.)



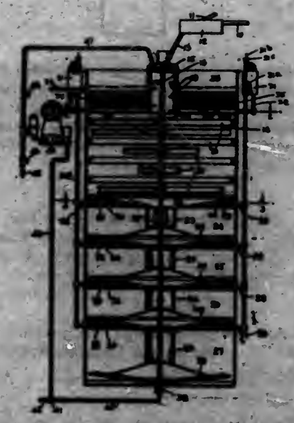
1. A shoe comprising a sole and an insole, a vamp including inner and outer layers with their margins secured between the sole and insole, and a reinforcement of sheet rubber and cork composition of substantial thickness and stiffness, located between the layers of the vamp and extending about the fore-part of the shoe.

1,752,788. BANJO. CLARENCE L. DEWEY, Elkhart, Ind., assignor to Outing Manufacturing Company, Elkhart, Ind., a Corporation. Filed Apr. 12, 1926. Serial No. 101,305. 5 Claims. (Cl. 84—271.)



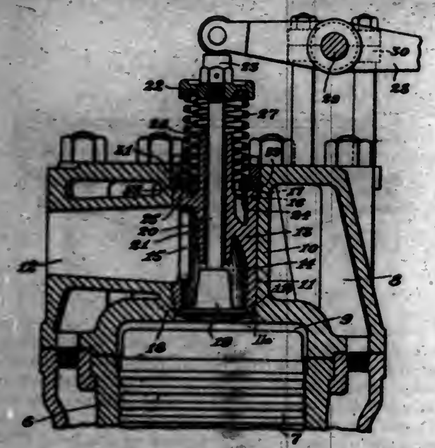
1. A banjo comprising a finger board, a neck formed thereon, an upper casing section secured to said neck, a plurality of concentric ribs integrally formed on the upper portion of said casing section, a skin head disposed over said concentric ribs, means for tensioning the skin head with said skin head serving to form a dead air space between said concentric ribs, a bridge disposed on said head, strings positioned above the finger board and passing over said bridge, a tail-piece on said upper casing section to which the strings are attached, an apertured ontwardly directed flange integrally formed on said upper casing section, an apertured continuous reenforcing washer engaged against said flange, hook bolts for tensioning the skin head and projecting through said apertured flange and through said continuous reenforcing washer, a felt pad positioned against said apertured upper casing section flange, and a lower casing section removably secured in position against said pad.

1,752,789. AGITATION AND SETTLING APPARATUS. FRANK A. DOWNES, New York, N. Y., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 7, 1925. Serial No. 48,731. 17 Claims. (Cl. 210—55.)



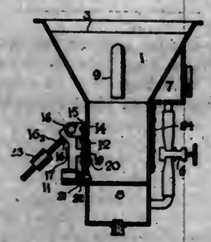
1. Flocculation and sedimentation apparatus comprising a sedimentation compartment, rotary means therein for mechanically impelling settled solids to a point of discharge and a superposed agitation chamber discharging into said compartment.

1,752,790. VALVE CAGE. ADRIAN C. ESTEP, Seattle, Wash. Filed Jan. 28, 1926. Serial No. 84,292. 17 Claims. (Cl. 123—189.)



1. A valve cage having a port formed in the walls thereof and having a portion of the said walls cut away at the upper end in approximate alignment with said port.

1,752,791. HYDRAULIC CLASSIFIER. ARTHUR WILLIAM FRERENWALD, Moscow, Idaho, assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1925. Serial No. 62,109. 13 Claims. (Cl. 209—496.)



1. Apparatus for treating solids suspended in liquid including a container having a solids discharge outlet, a yieldable diaphragm forming a portion of a wall of the container below the normal liquid level, and means operatively connected to the diaphragm for controlling the discharge of solids through said outlet.

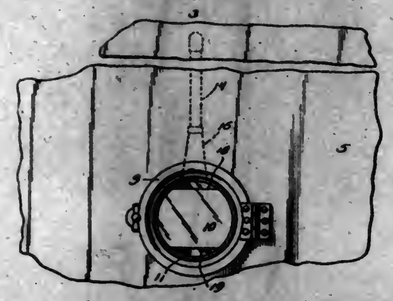
1,752,792. COMPOSITION FOR COATING VITREOUS ARTICLES. AARON MARTIN HAGEMAN, Bloomfield, and ALBERT FERDINAND LINDSTROM, Nutley, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Jan. 27, 1925. Serial No. 5,079. 6 Claims. (Cl. 134—45.)

1. A coating composition for the interior surface of vitreous articles, comprising a pigment, a filler, a binder, an alkali and zinc phosphate.

1,752,793. WELDING-ROD COATING. WILLIAM J. HAMMER, Grand Rapids, Mich., assignor, by direct and mesne assignments, to Liverance & Van Antwerp, a Partnership composed of Frank E. Liverance, jr., and Harold O. Van Antwerp, Grand Rapids, Mich. Filed Apr. 9, 1928. Serial No. 268,313. 3 Claims. (Cl. 148—26.)

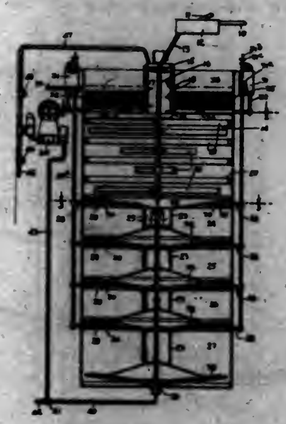
1. The herein described composition comprising, powdered oxide of iron and powdered feldspar in the proportion substantially of two parts in bulk of the oxide of iron to one of feldspar, said mixture being further mixed with a solution of sodium silicate and distilled water in the proportions substantially of 60% sodium silicate and 40% distilled water, the resultant mixture having substantially the consistency of paint.

1,752,794. VENTILATING PORT. WILHELM A. A. H. HELWIG, Detroit, Mich., assignor of one-third to Sam Dickman, Detroit, Mich. Filed July 26, 1929. Serial No. 381,292. 6 Claims. (Cl. 114—177.)



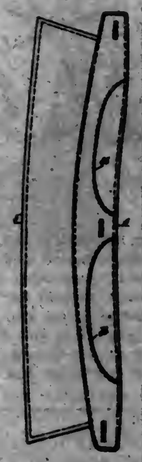
1. In a ventilated port for ships, a casing having a pair of top openings, an inverted U-shaped pipe vertically disposed above said casing and having its ends fitted in said openings, a frame in the casing having top openings alined with the respective openings of the casing, and a glass in said frame on a plane between the openings thereof to prevent the passage of water directly through said frame.

1,752,795. AGITATION AND SETTLING PROCESS. CHARLES P. HOOVER, Columbus, Ohio, and FRANK A. DOWNES, New York, N. Y. Filed Aug. 7, 1925. Serial No. 48,802. 24 Claims. (Cl. 210—55.)



1. A process of flocculation and sedimentation comprising the agitation of a fluid during occulation for a period sufficient for substantially complete flocculation and at a rate adequate to maintain a substantially homogeneous mixture during such period but insufficient to interfere with the formation of maximum flocs; discharging the resulting mixture into a sedimentation compartment and removing the solids by sedimentation.

1,752,796. COLLAR. RALPH HUNTER, New York, N. Y., assignor to Hall, Hartwell & Co. Inc., Troy, N. Y., a Corporation of New York. Filed May 26, 1925. Serial No. 32,955. 4 Claims. (Cl. 139—385.5.)



1. A fold-collar comprising an outer top ply of single-ply weave of close texture and capable of maximum absorption materially less than twenty per centum of its own weight of normal laundry starch solution.

1,752,797. DRYING CABINET. EDWARD HUTCHINSON, Jr., Philadelphia, Pa., assignor, by mesne assignments, to Saftigard-Nudriaire, Inc., Wilmington, Del., a Corporation of Delaware. Filed Sept. 20, 1928. Serial No. 307,079. 8 Claims. (Cl. 34—19.)



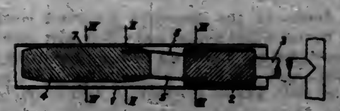
1. In a drying cabinet of the character described, a casing affording a vertical drying chamber with a door permitting access for placement of articles which are to be dried; a support beneath the chamber with spaced spring members upstanding from its bottom to support electric resistor heating bars at opposite ends, and superjacent baffle means collecting and directing drippage from the articles being dried directionally away from possibility of contact with said heating bars.

1,752,798. SLUG ELIMINATOR FOR VENDING MACHINES. ALFRED E. JOHNSON, Denver, Colo., assignor to The Weepah Manufacturing Corporation, Denver, Colo., a Corporation of Colorado. Filed Aug. 29, 1927. Serial No. 216,158. 16 Claims. (Cl. 194—9.9.)



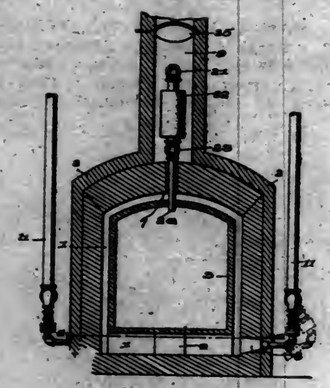
14. In a slug eliminator for vending machines, means provided with a slot to reject all oversize slugs, means to receive all coins not so rejected and to reject all slugs undersize in diameter or thickness, manually operated means to release coins not so rejected and means depending upon the resilience of a genuine coin and including resilient means to retard its fall, and an anvil with an inclined surface whereby its fall upon and its subsequent free rebound from said inclined surface will act to segregate it from slugs of different resilience.

1,752,799. RIVETING DEVICE. HUGO JUNKERS, Dessau, Germany. Filed July 27, 1926, Serial No. 125,204, and in Germany Aug. 21, 1925. 8 Claims. (Cl. 78—46.)



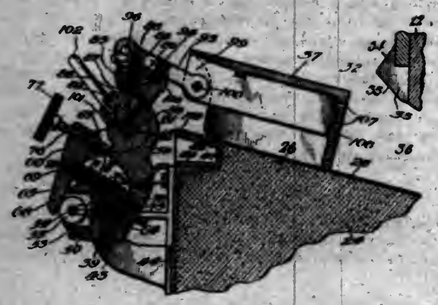
7. Means for riveting tubes and other hollow bodies comprising an anvil adapted to be displaced within the hollow body and bearing against one part of the wall thereof, an abutment connected and displaceable with said anvil and bearing against another part of the wall, resilient means for holding said anvil and said abutment applied against said different parts of the inner wall of said body and means adapted to be actuated from without for moving said anvil away from the inner wall of said body against the tension of the resilient means aforesaid rendering the anvil capable of delivering reaction blows upon said means during the riveting operation.

1,752,800. MUFFLE FURNACE AND METHOD OF OPERATING THE SAME. WILLIAM WALLACE KEMP, Baltimore, Md., assignor to The C. M. Kemp Mfg. Co., Baltimore, Md., a Corporation of Maryland. Filed Aug. 29, 1927. Serial No. 216,313. 12 Claims. (Cl. 25—144.)



1. The herein described method of operating muffle furnaces including a combustion chamber and a refractories muffle comprising maintaining pressure in both the combustion chamber and muffle, the pressure within the muffle being such as to prevent the admission thereto of gases from the combustion chamber, for the purpose described.

1,752,801. POWER FEED STOKER. GEORGE A. KOHOUT, Chicago, Ill. Filed Aug. 28, 1924. Serial No. 734,731. 4 Claims. (Cl. 110—109.)

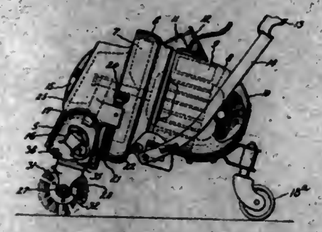


3. A device of the character described comprising a furnace having a fuel hopper and a fuel inlet opening below said hopper, pusher blocks for pushing fuel from said hopper through said opening, a power driven shaft, and means connecting said pusher blocks with said shaft to reciprocate said blocks, said means including yielding means interposed between said shaft and each of said blocks for moving said blocks in fuel feeding direction, and non-yielding means connecting said shaft and blocks for retracting said blocks, said yielding means permitting operation of said shaft and remaining blocks when one of said blocks is struck in intermediate or retracted position though still connected to said shaft.

1,752,802. PAPER AND PAPER MAKING. ERNEST LIONNE, Swampscott, Mass. Filed Nov. 12, 1928. Serial No. 318,994. 19 Claims. (Cl. 92—21.)

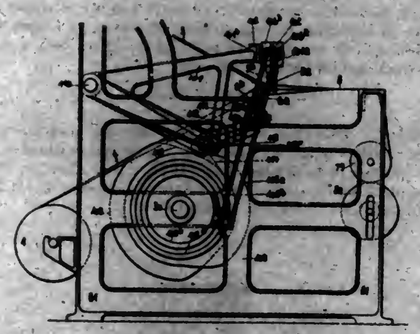
1. The method of making paper which consists in intermixing paper stock and precipitated celluloid, and forming a paper of such mixture.

1,752,803. FLOOR POLISHER FOR VACUUM CLEANERS. JOHN F. MORGAL, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Oct. 18, 1927. Serial No. 226,972. 8 Claims. (Cl. 15—49.)



1. A floor polishing attachment for use with a vacuum cleaner having a nozzle, a motor, and a pivoted adjusting member, said attachment comprising a rotary element, independent brackets which support the element at its ends, each bracket having means at one end to engage the nozzle and a projection at the other end which is engaged by the adjusting member of the cleaner to hold the element in place, and a belt driven by the motor for rotating said element.

1,752,804. LOOM. WALTER NICOLET, Leipzig, Germany. Filed Aug. 15, 1927, Serial No. 213,035, and in Germany Aug. 16, 1926. 4 Claims. (Cl. 139—11.)

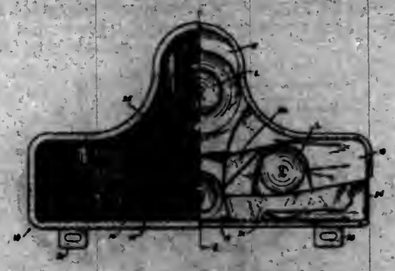


1. A loom comprising a row of needles for positively guiding one group of warp threads, two cooperating rows of needles for positively guiding the other group of warp threads, means for moving the needles guiding one group in the longitudinal direction of the needles towards and away from the needles guiding the other group and means for imparting to said cooperating rows of needles alternating substantially horizontal movements relative to each other in opposite directions at right angles to the threads, the distances which any one group of needles moves away from the needles of the other group, being less than the distance between contiguous needles.

1,752,805. AUTOMOBILE OR HIGHWAY SIGNAL. JAMES C. NORDGRAN, Salt Lake City, Utah, assignor, by mesne assignments, to C. A. Harth, The Dalles, Oreg. Filed June 23, 1924. Serial No. 721,768. 1 Claim. (Cl. 177—329.)

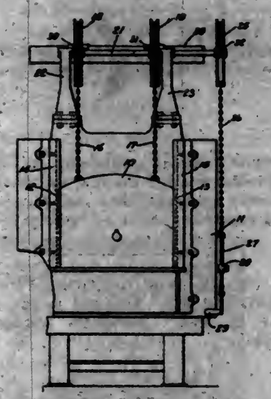
In a signal of the class described, a casing, a plurality of compartments in said casing, said compartments including a right, left, stop and tail light compartment, said tail light compartment being relatively small, a signal lamp in each of said compartments, said stop compartment being positioned above said tail light compartment and said right and left compartments being positioned

one on each side of said tail light compartment, translucent covers for said compartments, a light emitting panel in each end of said casing, a light emitting panel in the bottom of said casing, means to illuminate both end panels and said bottom panel from the lamp in said tail light compartment, said means including tunnels formed in said right and left compartments extending from each side of said tail light compartment to each



of said end panels, two additional compartments adapted to be illuminated by the lamp in said tail light compartment, said additional compartments being positioned one above each of said right and left compartments and at the side of the top compartment and separated therefrom, and a tunnel leading from said tail light compartment through said right and left compartments to said additional compartments.

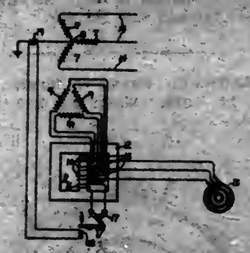
1,752,806. DOOR MECHANISM. ALBERT N. OTIS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 16, 1925. Serial No. 44,105. 14 Claims. (Cl. 268—58.)



1. Operating mechanism for doors comprising a sheave operatively connected to said door, a manually pivoted operated lever arm, a chain passing over said sheave having its ends secured to said arm, and a connection between said chain and said sheave, said chain and sheave being so arranged with respect to each other that the leverage of said arm varies with the position of the door.

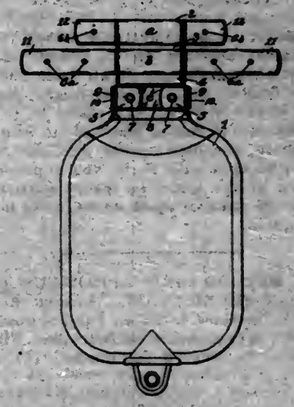
1,752,807. PROTECTION OF ELECTRIC SYSTEMS. ROBERT H. PARK, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 8, 1928. Serial No. 252,914. 10 Claims. (Cl. 171—97.)

1. In combination with a power transformer having a plurality of windings one terminal of each of which is connected to a common point and a plurality of cooperating polygonally connected windings, an impedance device having a plurality of mutually inductively related windings connected alternately in series in a closed circuit with said cooperating transformer windings, said impedance device windings being arranged to provide additive mag-



netic fluxes for currents circulating in the closed circuit, and means for reducing the impedance of said impedance device to a harmonic of the power current flowing in said transformer.

1,752,808. CLOSURE FOR WATER BAGS. MILTON B. REACH, Springfield, Mass., assignor to Stopperless Water Bottle Company, Springfield, Mass., a Corporation of Massachusetts. Filed Jan. 26, 1927. Serial No. 163,708. 21 Claims. (Cl. 150—8.)



1. A water bottle having an elongated neck of elastic material adapted to be folded over and over upon itself in one direction and means for applying tension to the elastic material of the neck for holding and compressing the folds in folded position, said tension means connected to and applying its force to the opposite edges of the neck and in opposite directions transverse to the axis of the neck.

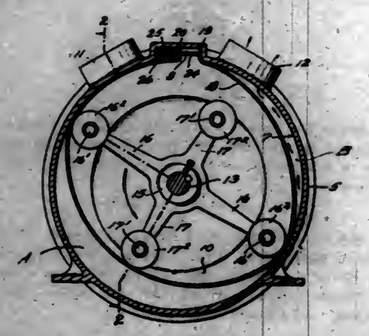
1,752,809. AUXILIARY MOTOR SUPPORT. JOHN M. RIORDAN, Detroit, Mich. Filed Jan. 28, 1925, Serial No. 5,290. Renewed Oct. 8, 1929. 7 Claims. (Cl. 180—64.)



1. In a supplementary support for automobile motor units, the combination of the automobile frame, a motor unit mounted therein, a supporting member extending below said motor unit adjacent the rear end thereof and secured to the frame, a support secured to said motor and passing through said member, a coil spring mounted on said support between said motor unit and said member and adapted to limit the downward movement of said

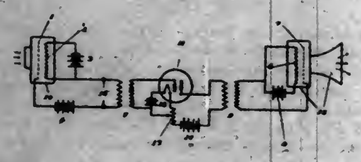
motor unit and furnish a fixed support therefor upon predetermined downward movement, and a second spring mounted on said support below said member and adapted to reach its shut position to limit the upward movement of said support through said member.

1,752,810. BLOWER. FRANK G. ROMIG, Seattle, Wash. Filed Jan. 17, 1929. Serial No. 333,138. 6 Claims. (Cl. 230—1.)



1. In a blower of the character described, the combination of a casing provided with a circular chamber and having circumferentially spaced air inlet and discharge openings, a flexible piston of less length than the circumference of said chamber, said piston being secured to the periphery of the casing intermediate said ports, an operating shaft extending axially into said chamber, a spider mounted upon said shaft, and a piston-actuating roller carried by the spider in spaced relation from the periphery of the chamber equal substantially to the thickness of the piston.

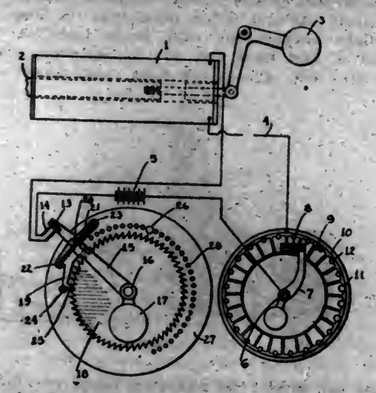
1,752,811. METHOD AND APPARATUS OF TELEPHONIC COMMUNICATION. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Patents Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 8, 1922. Serial No. 550,850. 20 Claims. (Cl. 179—101.)



1. An electrical sound emitting apparatus comprising a gas filled container having a sound opening, a hot cathode and anode within said container arranged to effect ionization of the gas therein, means for discharging thermionic current through said gas, and means for varying the discharge in accordance with audio signal currents.

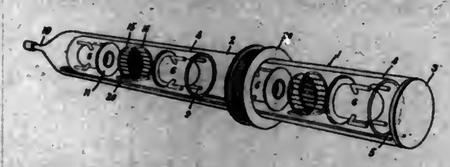
1,752,812. CIRCUIT CONTROLLER. JOHN J. RUDDICK, West Newton, Mass., assignor to General Street Signal Corporation, Rochester, N. Y., a Corporation of New York. Original application filed Aug. 24, 1922, Serial No. 584,127. Divided and this application filed Dec. 18, 1923. Serial No. 681,343. 6 Claims. (Cl. 200—33.)

1. In a circuit controller, the combination with two circuit controlling members for controlling a single circuit, one of said members being rotatable in a complete circle, and the other of said members being movable in two directions to open and close the circuit, and common motive power for both controlling members having connection with the first mentioned controlling member to move the latter in a complete circle and having connection with



the second mentioned controlling member to effect the movement of the latter toward and from a closed position a plurality of times during one rotation of the first mentioned controlling member.

1,752,813. MAGNESIUM-COVERED CALCIUM WIRE. WILLIAM ANDREW RUGGLES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 9, 1926. Serial No. 80,322. 3 Claims. (Cl. 29—182.)



1. A composite metal comprising an alkaline metal with a magnesium coating thereon, the alkaline metal being more readily oxidizable than the magnesium and both metals being capable of acting as "getters."

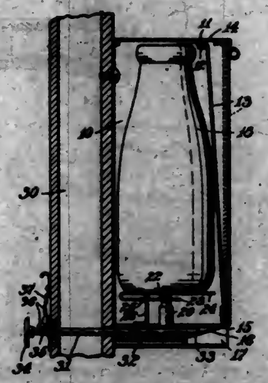
1,752,814. FRAME FOR HOLDING PHOTOGRAPHIC FILMS AND PLATES. JAMES E. SKELL, Newark, N. J. Filed Mar. 28, 1929. Serial No. 350,509. 2 Claims. (Cl. 95—101.)



1. A device of the character described comprising a frame having a front portion formed with an opening

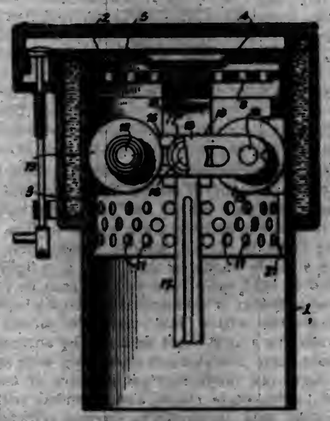
therein, and a pair of guideways each comprising side portions and an end portion disposed respectively at the sides and one end of the frame, said guideways being disposed in planes parallel to the plane of the frame and having one end open, whereby a photographic film or plate and a backing plate may be slidably inserted one into each guideway.

1,752,815. BOTTLE RECEPTACLE. WILLIAM T. SMITH, Muncie, Ind. Filed Jan. 14, 1927. Serial No. 161,033. 1 Claim. (Cl. 284—41.)



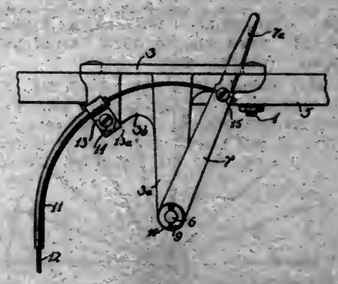
A receptacle of the character described having a movable wall, a latch for retaining said wall against movement, a platform within the receptacle for the reception of an article, means carried by the receptacle for the reception and support of a returnable article, a bolt controlled by the platform and arranged to engage the returnable article when properly placed in said receiving means, a second locking bolt arranged to co-act with said latch and to be engaged by the returnable article when in place, and latching means co-operating with said second bolt.

1,752,816. ENGINE PISTON. MANUEL HUMBERTO PÉREZ SOLOGAISTOA, San Pedro Sula, Honduras. Filed May 2, 1929. Serial No. 359,852. 5 Claims. (Cl. 74—108.)



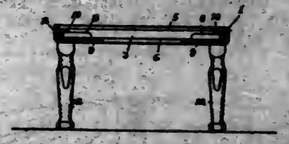
1. In an engine, a cylinder, a reciprocatory piston, a connecting rod, and an anti-friction coupling connection between the rod and piston and to which the rod is pivoted, said connecting having bearing contact with the walls of the cylinder and sliding engagement with the piston to permit the coupling connection and piston to have relative independent lateral movement.

1,752,817. CARBURETOR CONTROLLING DEVICE. CARL W. SPOHR, Chicago, Ill., assignor to Williams, Camp and Bradbury, Chicago, Ill., a Copartnership composed of Lynn A. Williams, Curtis B. Camp, and Clifford C. Bradbury. Filed Jan. 25, 1926. Serial No. 83,551. 2 Claims. (Cl. 74—89.)



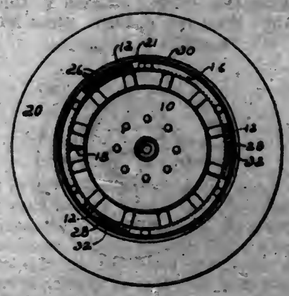
2. In a device of the class described, the combination of a bracket, a control lever pivotally mounted on said bracket, a flexible control wire, an arcuate guide tube therefor secured to said bracket and having its curvature concentric with the axis of said lever, said lever having transverse bore therethrough having its axis tangential to the arcuate path of the lever at that point for receiving the end only of said flexible wire to hold the wire in arcuate shape to coincide with the curvature of said guide tube.

1,752,818. FURNITURE BASE. ROY F. TAYLOR, Richmond, Ind. Filed May 2, 1927. Serial No. 188,140. 5 Claims. (Cl. 45—48.)



1. A furniture base comprising a frame with a rabbet formed at the upper inner corner thereof and a like rabbet formed at the lower inner corner thereof with both rabbets extending entirely around the base, a triangular block secured in each corner of the frame with the lower faces of said blocks located flush with the horizontal portion of the lower rabbet, a triangular plate contacting with the underside of each block and fitting in the lower rabbet, and a leg extending down from each of said plates.

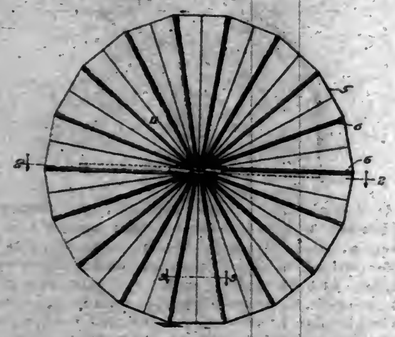
1,752,819. AUTOMOBILE WHEEL. ERNEST R. TIETZ, Detroit, Mich. Filed Sept. 20, 1926. Serial No. 136,476. 5 Claims. (Cl. 301—5.)



1. In an automobile wheel comprising a channel felloe having an opening in one of its side flanges, a weight pro-

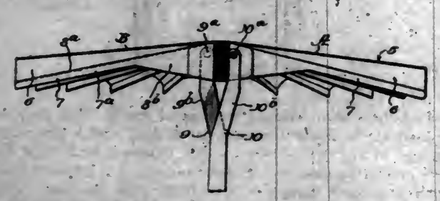
vided with a plurality of apertures adapted to slide in the channel of said felloe, and means extending through the opening in said side flange adapted to engage one of the apertures in said weight to retain the latter in one of several positions.

1,752,820. UMBRELLA. WILLIAM S. TIMBLIN, River Forest, Ill. Filed Jan. 26, 1927. Serial No. 163,667. 33 Claims. (Cl. 135—20.)



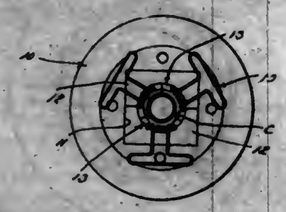
1. A folding umbrella formed of a single blank of material including a plurality of pleats, said pleats being adhesively connected to form radial reinforcing members angularly related to the top when the umbrella is extended for use.

1,752,821. UMBRELLA. WILLIAM S. TIMBLIN, River Forest, Ill. Filed Nov. 28, 1927. Serial No. 236,053. 5 Claims. (Cl. 135—20.)



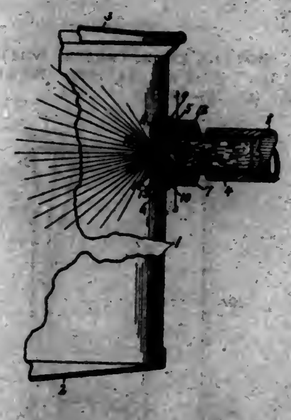
1. An umbrella including a top body portion formed of a plurality of flexible sections interconnected by contiguous integral flanges disposed at substantially right angles to the top when spread, said flanges having portions of their outer edges substantially parallel to the top portion and other portions angularly related thereto.

1,752,822. SLIP FOR ROTARY TABLES AND SPIDERS FOR HANDLING PIPE. RICHARD V. UHRIG, Los Angeles, Calif. Filed July 2, 1928. Serial No. 289,786. 5 Claims. (Cl. 24—263.)



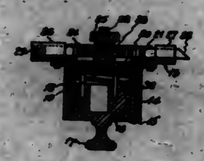
1. A slip to operate in an opening in a rotary table including, a body to fit in the opening, and a handle on the body, the handle having a portion wider than the opening.

1,752,823. SPRAY NOZZLE. FORREST A. WALKER, Syracuse, N. Y., assignor to Walker Dishwasher Corporation, Syracuse, N. Y., a Corporation of New York. Filed May 18, 1927. Serial No. 192,294. 2 Claims. (Cl. 299—107.)



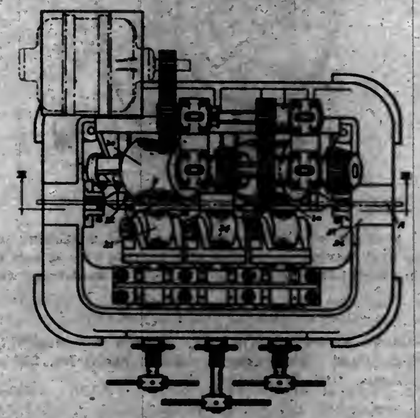
1. A spray nozzle comprising a tubular nipple having its inlet end threaded externally and its outlet end provided with an out-turned flange, axially spaced partitions within the outlet end of the nipple, the partition nearest the outlet end being provided with a central restricted outlet opening and having its remaining portions imperforate, the other partitions having its central portion imperforate and convexed toward the first-named partition in axial alinement with the outlet opening, said other partition being provided with apertures arranged in uniformly spaced relation around the imperforate convexed portion.

1,752,824. LOCKING DEVICE. GEORGE WATSON, Beaconsfield, British Columbia, Canada. Filed Oct. 22, 1928. Serial No. 314,252. 1 Claim. (Cl. 70—53.)



A locking device comprising, a securing bolt having a toothed rack thereon, a pinion engaging said rack, a spindle engaging said pinion and integrally extended at one end to form a circular plate whose surface is right-angular to the axis of said spindle, a base plate carrying guideways slidably engaging said bolt, a cylindrical casing secured to said base plate and adapted to revolvably receive the periphery of said circular plate, an intermediate sleeve revolvable within said casing, a second circular plate parallel to and slidable against the surface of first said circular plate and engaged revolvably with said intermediate sleeve, an inner revolvable sleeve of less length than said intermediate sleeve and provided with an external handle, said inner sleeve having cylindrical pins projecting beyond its inner face, a helical compression spring within said intermediate sleeve and abutting against said inner face and said second circular plate, both the said circular plates having similar and corresponding perforations adapted to register with each other and to receive and engage the ends of said projecting pins, partial perforations on the inwardly facing surfaces of both said plates, said partial perforations being spaced apart on concentric centre lines and adapted to receive the extremities of said projecting pins, external means for rotating said intermediate sleeve and indicating means on the adjacent external end faces of said casing and said sleeves whereby their relative angular positions may be identified.

1,752,825. GUIDE FOR STRAIGHTENING ROLLS. GEORGE A. WISE, Pittsburgh, Pa., assignor to Sutton Engineering Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 30, 1928. Serial No. 250,375. 22 Claims. (Cl. 153—60.)



1. A guide for supporting stock between a pair of cooperating cross rolls having a guiding surface continuously supported between the cross rolls by a thin wall of metal having two portions, said portions being arranged to diverge outwardly and downwardly on opposite sides of the guiding surface, said wall portions meeting in a common vertical line at approximately the mid-point of the guiding surface and each wall portion having a vertical face at the lower and outer extremity thereof to serve as a mounting base for the guide.

1,752,826. COMPOSITION OF MATTER AND METHOD OF PRODUCING SAME. MARIE WARSCHENER and LAURENCE FARMER LOSH, Berlin, Germany, assignors to the Firm: Chemische Fabrik auf Actien (vorm. E. Schering), Berlin, Germany. Filed Mar. 4, 1926, Serial No. 92,296, and in Germany Mar. 6, 1925. 8 Claims. (Cl. 167—51.)

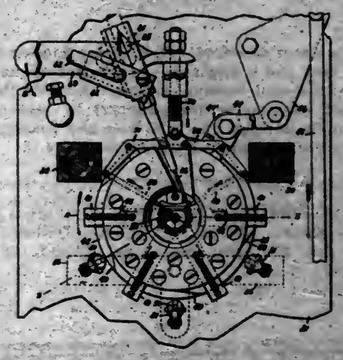
1. As a new composition of matter, a preparation emitting β-rays comprising an adsorption product of uranium X_1 free from uranium and a substance which is substantially insoluble in body liquids and has adsorptive properties.

1,752,827. ROOFING CONSTRUCTION. WILLIAM J. YOUNG, Cleveland, Ohio. Filed Jan. 16, 1929. Serial No. 332,846. 2 Claims. (Cl. 108—13.)



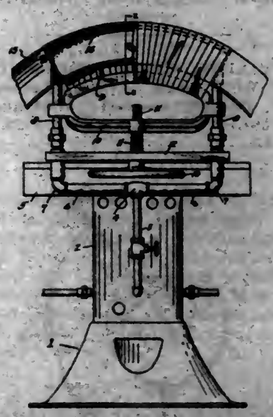
1. A roofing construction comprising metal sheathing or decking, an insulating slab or layer of material placed thereover, weather proofing material laid over the insulation material, a securing means for the insulationg slabs and the weather proofing material extending through the weather proofing material and insulation material in clamped relation thereto and secured to and extending through the metal sheathing, and an insulating covering means disposed over the inner portion of the insulating slab securing means.

1,752,828. METHOD AND APPARATUS FOR MOUNTING FILAMENTS. WILLIAM P. ZABEL, Cleveland Heights, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Dec. 7, 1927. Serial No. 238,420. 5 Claims. (Cl. 176—3.)



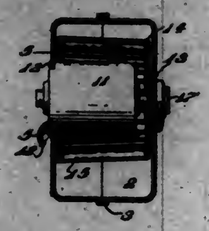
1. In a filament mounting apparatus, the combination, of an anchor positioning member having slots to receive said anchors, a filament guideway disposed to receive the shaped ends of said anchors and clamping means having arms each in position to engage a portion of an anchor adjacent to said guideway.

1,752,829. TIRE VULCANIZER. JOHN Q. ADAMS, Columbus, Ohio, assignor to The Adams-Barre Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 30, 1928. Serial No. 303,048. 4 Claims. (Cl. 18—18.)



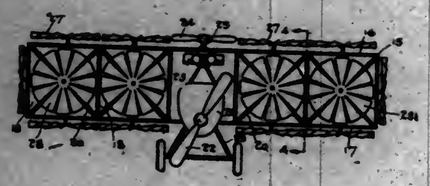
1. A tire curing attachment comprising an arcuate hollow master mold section formed from a metal possessing high thermo-conductivity, means for introducing a heating medium into said mold section, and a removable shell section telescopically positioned over said master mold section, the inner walls of said shell and the outer walls of said mold section being so shaped that said sections physically engage one another over substantially the full area thereof.

1,752,830. MOTOR-DRIVEN BLOWER. EDWARD P. BLISS, Jr., Philadelphia, Pa. Filed Apr. 15, 1929. Serial No. 355,272. 3 Claims. (Cl. 230—117.)



1. In a motor driven blower, a blower housing having a side air inlet and a discharge at its periphery, an electric motor within said housing, a blower fixed to the motor shaft and surrounding the periphery of said motor to cause all the air entering said inlet and passing to said blower to circulate around the motor to cool it.

1,752,831. AIRSHIP CONSTRUCTION. VICTOR AUGUSTE MARIE ERNEST BRAHY, St. Hilaire, Quebec, Canada. Filed Jan. 17, 1929. Serial No. 333,111. 2 Claims. (Cl. 244—15.)



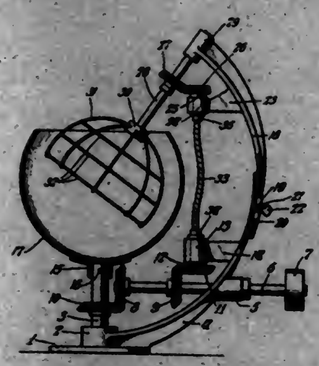
2. In airship construction, a frame work, a plurality of wind rotors rotating in a horisontal plane and a corresponding number in a parallel plane, fore and aft rotors rotating in parallel vertical planes, transverse rotors rotating in vertical planes, a lifting propeller and a propulsion member.

1,752,832. MIXING DEVICE. WILLIAM C. BRUMDER, Milwaukee, Wis.; Thekla U. Brumder executrix of said William C. Brumder, deceased. Filed Aug. 24, 1922, Serial No. 584,103. Renewed Aug. 15, 1929. 20 Claims. (Cl. 259—85.)



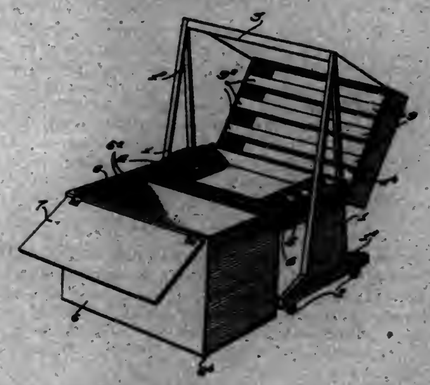
1. Apparatus of the character described comprising a pair of juxtaposed bodies rotatable upon intersecting axes, one of said bodies consisting of a framework the elements of which lie on the surface of a sphere and comprising a plurality of partially circular meridian elements.

1,752,833. MIXING APPARATUS. WILLIAM C. BRUMDER, Milwaukee, Wis.; Thekla U. Brumder executrix of said William C. Brumder, deceased. Filed Aug. 6, 1923, Serial No. 655,889. Renewed Aug. 15, 1929. 4 Claims. (Cl. 259—85.)



1. A beater of the character described consisting of a framework having an outline of a portion of a sphere and having meridian elements as a portion of said framework.

1,752,834. SEWING CABINET. VICTOR E. CARLSON, San Diego, Calif. Filed Aug. 4, 1928. Serial No. 297,571. 2 Claims. (Cl. 312—152.)

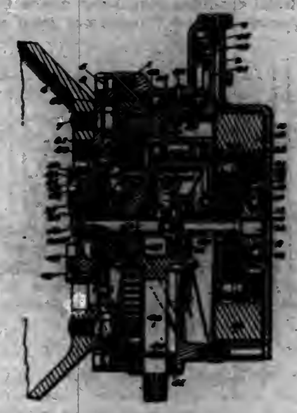


1. In a sewing cabinet, a pair of supports, a horizontally positioned tray supported thereby, said tray extending further to one side of said supports than to the other, a shelf support having an open side hinged to the lower edge of said tray on the the lesser extended side thereof, a deep receptacle hinged to the upper edge of said tray on the greater extended side thereof, said receptacle adapted, when closed, to be positioned bottom side up upon said tray and presenting a side surface in a plane common with said lower edge of the tray and means for securing said shelf support with its open side contiguous with said side surface of said receptacle.

1,752,835. ENGINE-STARTING APPARATUS. ROLAND CHILTON, Keyport, N. J., assignor, by mesne assignments, to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed Jan. 30, 1929. Serial No. 336,311. 10 Claims. (Cl. 123—179.)

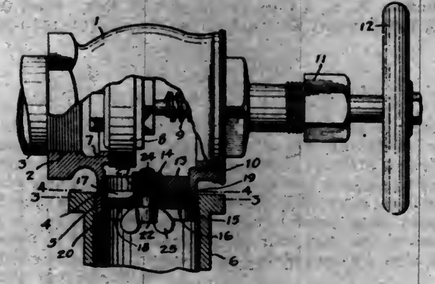
1. In apparatus of the class described, a rotatable engine-engaging member, a fly-wheel, a train of reduction

gearing connected to said member, a yieldable driving means carried by said flywheel and drivably connected to said train of gearing, means for rotating said member to



store energy in the flywheel including said gear train, and means for axially shifting said member to engine-engaging position.

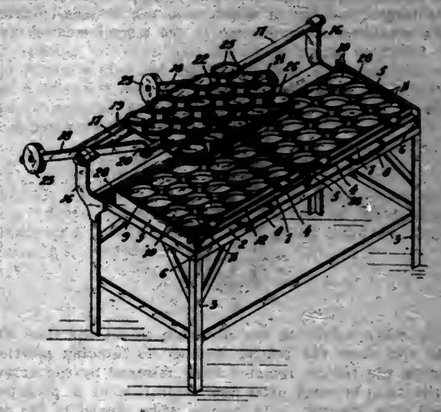
1,752,836. VALVE. WILLIAM F. CONRAN, Brooklyn, N. Y. Filed Oct. 8, 1927. Serial No. 224,886. 9 Claims. (Cl. 277—66.)



3. In a water distribution for buildings, a valve casing having a discharge opening, an externally operable closure valve in said casing controlling flow therethrough, a disk fixed transversely of said opening and having a plurality of ports therein, a second correspondingly ported disk rotatably mounted in said opening, means for clamping said disks in fixed position with respect to each other, and a conduit member connected with said opening, said rotatable element and holding means being wholly enclosed by said valve casing and conduit element so as to be accessible only by disconnecting the same.

1,752,837. APPARATUS FOR MANUFACTURING PIES. THOMAS CORNS, Richmond, Victoria, Australia. Filed June 26, 1928, Serial No. 288,408, and in Australia Aug. 31, 1927. 7 Claims. (Cl. 107—15.)

1. Improved apparatus for manufacturing pies comprising, a plurality of tray members having openings to accommodate pie tins or cooking containers, cutting edges around said openings, means for pressing the paste into the pie tins to form the pie shells, means for severing the pies

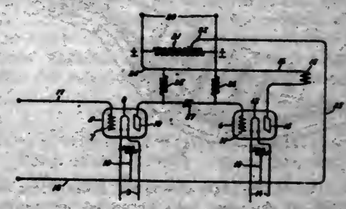


against said cutting edges, oven trays supported beneath the tray members, and means for discharging the pie tins from the openings onto said oven trays.

1,752,838. BINDER FOR FUEL AGGLOMERATES. FRANCIS M. CROSSMAN, New York, N. Y. Filed Dec. 5, 1924. Serial No. 754,201. 5 Claims. (Cl. 44—16.)

1. A binder for making briquettes from pulverulent fuels comprising a mixture of sulphite cellulose waste liquor in an aqueous starch solution together with asphaltum pitch as a waterproofing material and a small amount of sodium nitrate as an oxidizing agent.

1,752,839. AMPLIFIER. PAUL C. GARDINER, Oakland, Calif., assignor to General Electric Company, a Corporation of New York. Filed Feb. 26, 1929. Serial No. 342,804. 8 Claims. (Cl. 179—171.)

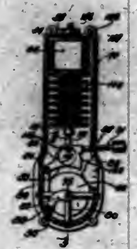


1. An alternating current amplifier including electric discharge devices, alternating current supply terminals, a resistance network including a potentiometer connected between said terminals, anode and grid resistors, connected between said devices and said potentiometer and a coupling resistor connected between said resistors, a cathode return circuit, and a contact movable between the terminals of the potentiometer and connected with the cathode return circuit.

1,752,840. WATER-HEATER APPLIANCE. FRANK A. GAUGER and ROY W. JOHNSON, Milwaukee, Wis., assignors, by mesne assignments, to Time-O-Stat Controls Company, a Corporation of Maryland. Filed Feb. 28, 1923. Serial No. 621,087. 3 Claims. (Cl. 161—1.)

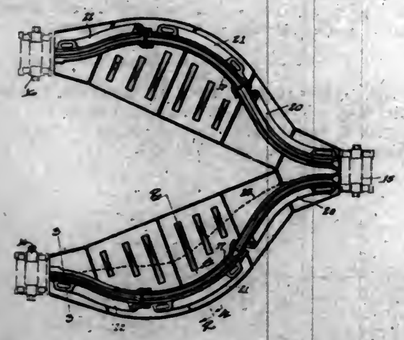
1. A time controlled releasing mechanism comprising an operating shaft biased to a predetermined position, a handle for actuating said shaft, a cocking member connected to said shaft and adjusted thereby, a pivotally

supported trigger member biased to a latching position in which it is adapted to latch the cocking member in set position, a time element, a pin connected to and operated by said time element, said trigger member having an enlarged opening in which said pin is loosely fitted and a single handle connected to the trigger member and



acting when moved in one direction to set the time element and move the trigger member to latching position wherein the trigger remains until released by the action of the time element after the expiration of a predetermined time interval, said handle, when moved in the opposite direction, acting to move the trigger to released position independently of the time element.

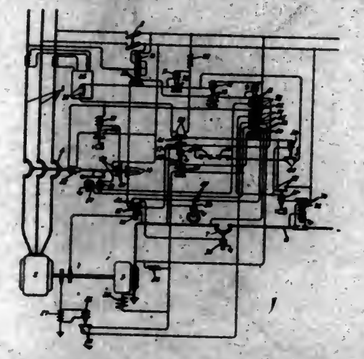
1,752,841. LOOPING TROUGH FOR ROLLING MILLS. JEROME R. GEORGE, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed May 16, 1925, Serial No. 30,857. Divided and this application filed Feb. 17, 1928. Serial No. 255,103. 5 Claims. (Cl. 80—51.)



5. Apparatus of the class described, comprising two successive stands of reducing rolls arranged substantially in tandem and adapted to operate simultaneously on a single piece of stock, and a trough for guiding the stock from the first to the second stand of rolls, said trough curving outwardly from its receiving end and then reversing its curvature intermediately to provide a path between said roll stands of substantially greater length than their straight line distance apart, a portion of the inner wall of said trough being shaped to permit the escape of the stock from said trough in the event of an underfeed of said stock by the first stand of rolls, whereby the path of said stock between said rolls is shifted inwardly of said reversely curved trough portions.

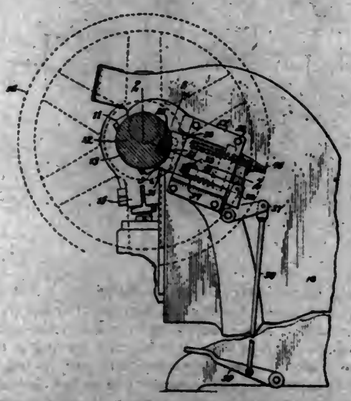
1,752,842. CONTROL SYSTEM. WILLIAM N. GITTINGS, Upper Darby, Pa., assignor to General Electric Company, a Corporation of New York. Filed Feb. 4, 1929. Serial No. 337,218. 5 Claims. (Cl. 171—118.)

1. In combination, a polyphase supply circuit, a rotary transformer, a control device, means normally arranged to effect the connection of said transformer to said circuit in response to a predetermined condition of said control device, means responsive to a predetermined relation between the currents in different phases of said circuit, means responsive to a predetermined electrical condition of said transformer, and means controlled directly by said current responsive means and said transformer electrical condition responsive means for effecting the disconnection of said transformer from said circuit



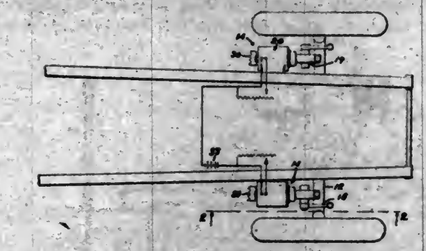
and the subsequent reconnection thereto whenever a predetermined current condition occurs in said circuit when said transformer electric condition responsive means is in a predetermined position and for effecting the disconnection of said transformer from said circuit and for rendering said connection means non-responsive to said control device whenever said predetermined current condition occurs when said transformer electrical condition responsive means is in another position.

1,752,843. CLUTCH. PAUL R. HANNEMANN, Buffalo, N. Y., assignor to Niagara Machine and Tool Works, Buffalo, N. Y., a Corporation of New York. Filed Oct. 5, 1928. Serial No. 310,565. 9 Claims. (Cl. 192—25.)



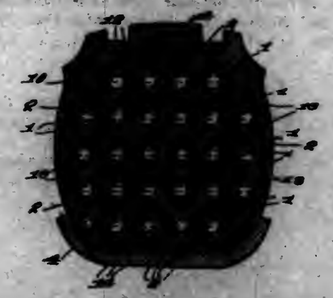
1. A clutch including a driving member, a driven member, a coupling member rotatable with said driven member and movable into coupling relation with said driving member and retractable therefrom, a cam member arranged adjacent said coupling member, stop means arranged at one side of said cam member and a spring reacting against the opposite side of said cam member, said spring urging said cam member into engagement with said coupling member to retract said coupling member and said spring cooperating with said stop means to continue the retraction of said coupling member after the driving connection between said coupling and driving members has been broken.

1,752,844. ELECTRIC SHOCK ABSORBER. ARTHUR W. HARRISON, Los Angeles, Calif., assignor of one-half to L. D. KAY, Los Angeles, Calif. Filed Dec. 19, 1928. Serial No. 327,082. 4 Claims. (Cl. 188—104.)



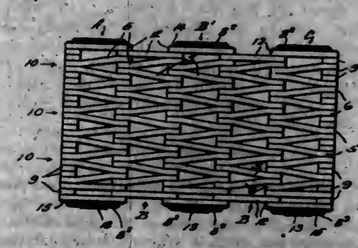
1. An electric shock absorber comprising in combination an electric generator, means to actuate said generator due to the spring motion of a vehicle, a load resistor in the circuit of said generator, the load resistor acting against the operation of the generator and retarding the spring action.

1,752,845. TIRE FOR MOTOR VEHICLE WHEELS. ERNEST HIBBERT, Goulburn, New South Wales, Australia. Original application filed Sept. 19, 1924, Serial No. 738,639, and in Australia May 29, 1924. Divided and this application filed Jan. 29, 1926. Serial No. 84,710. 2 Claims. (Cl. 152—5.)



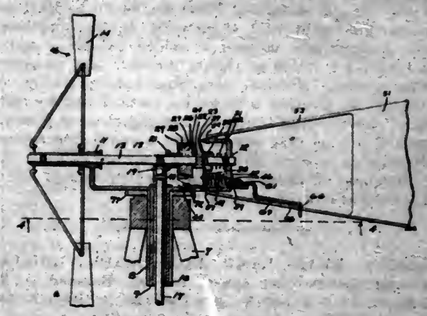
1. A tire having a core comprising a plurality of longitudinally wound concentrically arranged cell bands of elastic material each cell band extending in width laterally from side to side of the core and having compressed air filled cells spaced apart and which project from opposite sides of the band, the cells of the respective bands being arranged in staggered relation so that each cell of one band is arranged in the space formed between the cells of the next adjacent band.

1,752,846. FLEXIBLE MAT. HAROLD W. HOLLENBECK, Kirkland, Wash., assignor to Durable Mat Company, Seattle, Wash., a Corporation of Washington. Filed Oct. 20, 1928. Serial No. 313,877. 8 Claims. (Cl. 20—78.)



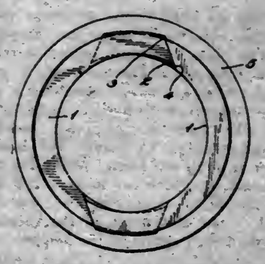
3. A mat formed of end and intermediate sections longitudinally of the mat, each section comprising a plurality of link elements with apertures at the opposite ends thereof, rods extending through said apertures to connect the links in the respective sections, one rod of each end section and both rods of the intermediate sections serving to hingedly connect the sections together, spacing elements mounted upon the other rod of each end section, said spacing elements and the links being arranged in close laterally abutting relation to one end upon the various rods and in respect to each other so as to dispose the links in angular relation to both the longitudinal and transverse axes of the mat.

1,752,847. WINDMILL. VALORUS S. HOLLINGSWORTH, Los Angeles, Calif., assignor of one-half to Ira M. Hollingsworth, Los Angeles, Calif. Filed June 20, 1928. Serial No. 286,838. 8 Claims. (Cl. 170—54.)



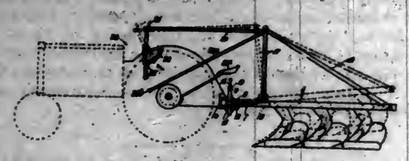
1. In a windmill a frame mounted upon a supporting structure for rotary movement in respect thereto about a vertical axis, a shaft journaled horizontally in said frame, a wheel carried by said shaft and adapted to be rotated by an air current when said shaft is substantially in parallelism with the direction of said current power transmitting means releasably connected to said shaft, a vertically disposed rudder carried by said frame whereby the frame is moved by the force of the air current to bring the shaft into parallelism with the direction of the current, a detent carried by said frame and adapted to releasably lock the frame to said supporting structure, and means operable by said rudder for withdrawing said detent from engaging position, and means operable by said rudder for releasing said power transmitting means.

1,752,848. PISTON RING. JAMES J. HOWARD, Stamford, Conn. Filed Jan. 16, 1928. Serial No. 247,131. 6 Claims. (Cl. 74—109.)



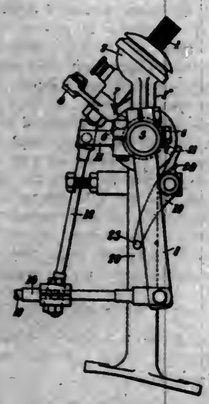
1. A piston ring having an external circumference corresponding in length to the length of the internal circumference of the cylinder for which it is designed, slightly elliptical in contour, and composed of similar sections, lapping at their ends, the laps being at the ends of the long axis.

1,752,849. TRACTOR PLOW. GEORGE HUDSON, Boongalle, Merbein South, Victoria, Australia. Filed Aug. 20, 1926, Serial No. 130,503, and in Australia Aug. 22, 1925. 1 Claim. (Cl. 97—47.)



A tractor having a chassis provided with a transverse bar and with a pair of spaced arms extending rearwardly from said bar, a U-frame secured rigidly to said transverse bar at a point between said arms, an inverted U-frame secured on said U-frame for vertical adjustment and also guided by said U-frame, a trailing implement frame, a transverse member to which the front end of said implement frame is rigidly secured, said transverse member having forwardly extending arms pivotally connected to said inverted U-frame for vertical angular movement of said trailing frame, a swinging element pivotally connected to said first named arms, a connection between said swinging element and the rear portion of said trailing frame and an operating lever mounted on said tractor and connected to said swinging element.

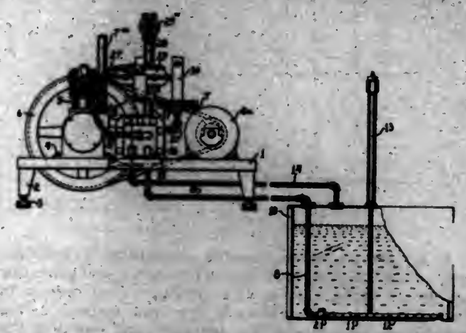
1,752,850. HEAD LAMP FOR ROAD VEHICLES. JOSEPH RIDLINGTON, Acton, London, England. Filed July 20, 1928, Serial No. 294,239, and in Great Britain Mar. 20, 1928. 4 Claims. (Cl. 240—61.)



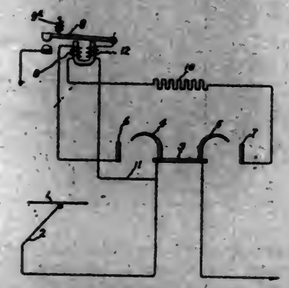
1. A mounting for head lamps of motor road vehicles comprising stems adapted to carry the lamps, a rocking shaft mounted in fixed bearings, sockets carried by said shaft in which said stems are mounted, a coupling between said two stems, a grooved cam loosely mounted on said shaft in juxtaposition to one of the lamp sockets, an arm fixed on the stem in the lamp socket adjacent to the cam and adapted to engage the groove in the cam, means for rocking the shaft, means for rotating the cam on said shaft, a device for locking the cam against rotation, and means for unlocking the cam immediately before the end of the movement of the rocking shaft to produce the complete dipping of the lamps.

1,752,851. GAS-PRODUCING APPARATUS. GEORGE R. ROESCH, Toledo, Ohio, assignor to Tolectro Corporation, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 2, 1927. Serial No. 217,138. 3 Claims. (Cl. 261—124.)

1. In a gas producing apparatus having a tank for vaporific liquid to which gaseous pressure fluid is fed through a pipe line, a gas collecting chamber, a duct leading from the tank to the chamber for supplying gas thereto, means to maintain the pressure of gas delivered from the chamber substantially uniform, and devices for providing a gas cushion in the pressure fluid line leading to the tank including a valve member in communication with the inside of the collecting chamber, thereby to prevent forcing liquid from the tank through the feed line.



1,752,852. SAFETY SYSTEM. WILHELM ROHKOHL, Potsdam, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 30, 1928, Serial No. 250,630, and in Germany Feb. 24, 1927. 6 Claims. (Cl. 175—294.)



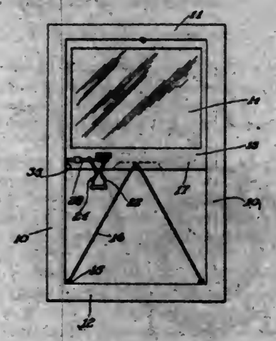
1. A safety system including a safety cutout, arc-breaking members associated with said cut-out, auxiliary poles adjacent said arc-breaking members respectively and out of the path of a normal arc therebetween, and an electrical connection between said poles forming a parallel circuit to the arc when an abnormal arc jumps over to said auxiliary poles.

1,752,853. PROCESS FOR PRODUCING CELLULOSE ACETATE. ARTHUR RUSSELL, Baltimore, Md., and JOSEPH F. HEGEMAN, New York, N. Y. Filed Feb. 15, 1929. Serial No. 340,180. 6 Claims. (Cl. 260—102.)

1. Those steps in the process of producing cellulose acetate which consist in mixing cellulose with an acetylizing solution and acetylizing the cellulose under pressure of between 50 and 75 pounds per square inch, and adding a hydration mixture and raising the pressure while maintaining the temperature.

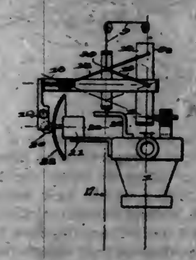
1,752,854. WINDOW-CLOSING DEVICE. FRED SCHIERHOFER, Mount Vernon, N. Y. Filed June 12, 1929. Serial No. 370,264. 5 Claims. (Cl. 268—123.)

5. In combination with a window frame having slidable sashes therein, a window closing device comprising a tooth mounted rigidly on said frame, a bolt normally extended to engage said tooth to retain said window in raised position, a normally suspended bar, a bracket supporting said bar in suspended position, a stud rigidly mounted on said bracket having said bar rotatable thereon, a spring, the ends of said spring being respectively attached to said stud and said locking bolt, said bar being



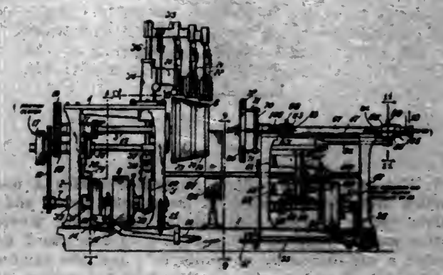
adapted to be swung to the suspended position in a horizontal plane so that said bar does not become an obstruction in the closing of said window, a bell crank engaging said locking bolt pivoted on said bar, a moisture fracturable ring encircling the end of said bar and said bell crank for retaining said locking bolt in extended position, said ring being adapted to part when moistened.

1,752,855. APPARATUS FOR MEASURING PHYSICAL CHARACTERISTICS OF FLOWING STREAMS OF FLUID. FRITZ SCHÖNEBERGER, Sterkrade, Germany. Filed Apr. 4, 1927, Serial No. 180,973, and in Germany Feb. 25, 1924. 2 Claims. (Cl. 73—184.)



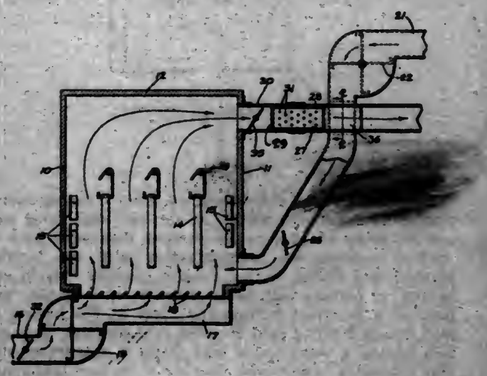
1. In a device for registering composite physical characteristics of flowing streams of fluid, the combination of meang responsive to the rate of flow of the fluid, means responsive to the difference in temperature between the fore-flow and the return flow of the flowing stream of fluid, each of said responsive means including a member movable in accordance with the characteristic to which it is responsive, a third movable member, means connected with and actuated by the combined movements of the first two mentioned movable members to impart the resultant movement thereof to said third movable member, a friction drive member actuated at a constant rate of speed by means other than those for moving the aforementioned movable members, and a counter having a friction drive in cooperative relation with the friction drive member and movable thereover by the said third movable member to drive the counter at varying speeds in accordance with the resultant movements of the two first mentioned movable members whereby to register on the counter the total units of the desired characteristic.

1,752,856. METHOD AND APPARATUS FOR MAKING BASKETS. ALBERT H. SCHMIDTKE, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich., a Corporation of Michigan. Filed Mar. 25, 1926. Serial No. 97,220. 19 Claims. (Cl. 147—47.)



1. In an apparatus of the class described, the combination of a tapered form having a narrow extended edge around the smaller end, a folder adapted to embrace the smaller end of the form for clamping a mat against the extended edge of the form and folding an annular portion of the mat against the tapered face of the form, means for pushing the center portion of the mat within the extended edge to internally arch said portion and form a sharp bend between the center and annular portions of the mat, and mechanism for applying a confining band around the folded mat on the form to embrace the aforesaid sharp bend and retain the arched form of the portion of the mat within the extended edge of the form.

1,752,857. JAPANNING OVEN. JOHN A. SEEDS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 31, 1927. Serial No. 243,974. 6 Claims. (Cl. 34—19.)



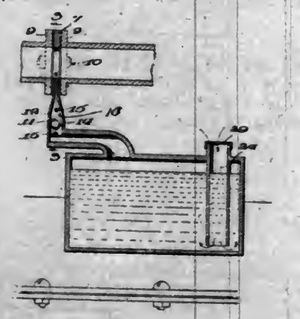
1. The combination with an oven, of heating means within said oven, an air inlet for said oven, an outlet flue for conducting heated gases away from said oven, means including an igniting device for producing combustion of said gases in said outlet flue, an auxiliary air intake for said oven and means including a heat exchange device whereby heat produced by said combustion is returned to said oven through said auxiliary air inlet.

1,752,858. BROOCH-FASTENING DEVICE. GUSTAVUS A. SIEFKEN, Minneapolis, Minn. Filed Aug. 10, 1929. Serial No. 384,976. 7 Claims. (Cl. 24—157.)



1. The combination with a pin guard having a hook portion and slotted opening in the shank thereof and a curved recess adjacent said opening, of a catch pivoted within said opening beneath the point of said guard and having a lug projecting upwardly to a position adjacent to the end of said guard, a spring mounted within said curved recess to engage said catch for normally holding said lug near the end of said guard and across the opening of said hook portion, and said catch having an arm forming a finger grip for tilting said catch against the tension of said spring and moving said lug to expose the opening in the hook portion of said guard.

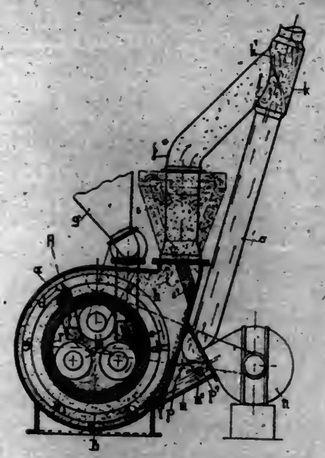
1,752,859. AUXILIARY AIR INLET FOR HUMIDIFIERS. JERRY H. SIMUNEK, Gregory, S. Dak. Filed Jan. 21, 1926. Serial No. 82,886. 1 Claim. (Cl. 277—60.)



In a device of the class described, a valve casing having a laterally flared wall portion at one end, said flared wall portion being adapted to be clamped between a pair of conduit sections for communication with the interior thereof, said casing having a valve chamber therein and having a passage extending through said flared wall portion, a partition terminating short of the bottom of said casing dividing said chamber into sections, each section having a valve and a seat therefor, transverse stop pins extending across said chamber above and below said valves for limiting movement of the valves and said pins holding said partition in position and reinforcing the same.

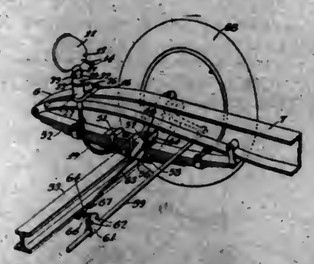
1,752,860. MILL. ADOLF STEINBRÜCKNER, Duisburg, Germany. Filed Nov. 30, 1927, Serial No. 236,749, and in Germany Dec. 8, 1926. 20 Claims. (Cl. 83—9.)

1. A mill comprising a mill work having a cylindrical outer surface, a pneumatic conveyor arranged on the outer surface of said work and adapted to operate concentrically thereto and to lead off ground material from the mill, an air conduit leading to said conveyer, and



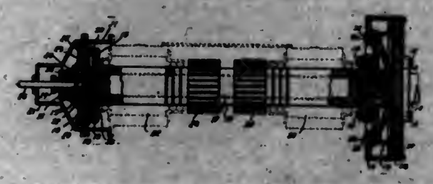
an outlet in said air conduit before its junction with said conveyer to by-pass a proportion of the air forced through the conduit to the conveyer.

1,752,861. DIRIGIBLE HEADLIGHT. WALLACE E. C. STONE, Los Angeles, Calif. Filed Apr. 11, 1928. Serial No. 269,268. 8 Claims. (Cl. 240—62.)



1. A headlight mounting comprising a socket member securable to a vehicle, a tapered plug member having an axial bore extending upwards from the bottom thereof, said plug member fitting within said socket member for rotary movement in respect thereto, a pin rigid with said plug and extending axially from the bore thereof through an aperture in the bottom of said socket member, a spring interposed between said plug member and socket member and disposed within the bore of the plug member, means for imparting rotary movement to said pin, and means for attaching a headlight to said plug member.

1,752,862. HYDRAULIC CLUTCH. GEORGE J. STRZYNSKI, Kingston, N. Y. Filed Aug. 12, 1927. Serial No. 212,386. 14 Claims. (Cl. 192—85.)

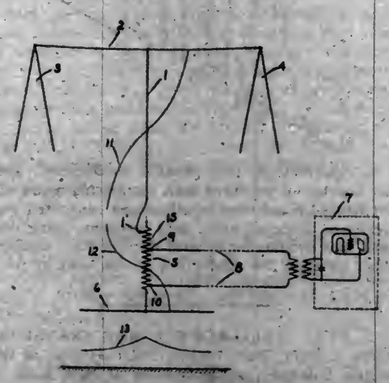


1. Apparatus of the class described comprising a driving member, a transmission shaft mounted adjacent said driving member in spaced relation thereto and having one or more gears mounted thereon intermediate the ends thereof, a clutch member operatively associated with one end portion of said transmission shaft and adapted to engage said driving member, and hydraulically operated means associated with the other end portion of said transmission shaft for mechanically causing said clutch member to engage said driving member.

1,752,863. MANUFACTURE OF CHROMATES. OMAR F. TARR, Baltimore, Md., assignor to Mutual Chemical Company of America, New York, N. Y., a Corporation of New Jersey. Filed Apr. 3, 1929. Serial No. 352,322. 7 Claims. (Cl. 23—56.)

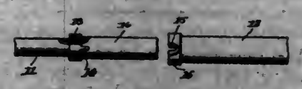
1. The process of manufacturing alkali chromates which comprises roasting in an oxidising atmosphere a mixture of finely pulverised chromium ore with about half its weight of pulverised basic refractory material and an amount of alkali carbonate sufficient to combine with a part only of the chromium content of the ore, leaching the roasted product, mixing the residue with a further quantity of alkali carbonate and subjecting the resulting mixture to a further roasting operation with subsequent leaching of the roasted product to recover alkali chromate therefrom.

1,752,864. ANTENNA SYSTEM. LAURENS A. TAYLOR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 20, 1928. Serial No. 300,727. 3 Claims. (Cl. 250—33.)



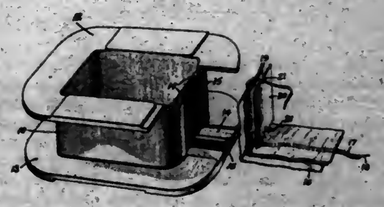
1. The combination in a radiating system, of a vertical radiating member having a length substantially equal to one half of a wave length of the waves to be radiated, an oscillatory circuit located at the base of said radiating member, said radiating member and oscillatory circuit being in proximity to but isolated from the earth whereby oscillations are produced in said radiating member having a voltage node at the midpoint thereof, and means for supplying high frequency current to said oscillatory circuit.

1,752,865. FISHING ROD. SAMUEL T. THORPE and NILS P. PETERSON, Bristol, Conn., assignors to The Horton Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Nov. 7, 1927. Serial No. 231,718. 2 Claims. (Cl. 287—126.)



1. A joint for a sectional fishing rod, said joint comprising two sections, one section having a ferrule on one end thereof telescoped within the other section, a sleeve on said ferrule, cooperating interlocking means on said sleeve and the other section holding the two sections against relative rotation, and a sleeve fixedly secured on the other section concealing said locking means when the two sections are telescoped.

1,752,866. SOLENOID WINDING. PANFILO TROMBETTA, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 31, 1928. Serial No. 329,602. 8 Claims. (Cl. 175—21.)

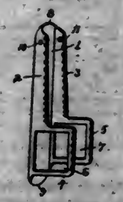


1. A spool for electrical coils comprising a winding body and a flange at each end thereof, one of said flanges being recessed on its inner side from said winding body to the outer edge of said flange to provide a passageway through which the conductor forming the coil extends to the inner layer of the coil whereby uniform winding is produced.

1,752,867. REFRACTORY COMPOSITION AND PROCESS OF MAKING REFRACTORY ARTICLES THEREFROM. LOUIS J. TROSTEL, Baltimore, Md., assignor to General Refractories Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 30, 1927. Serial No. 179,720. 5 Claims. (Cl. 106—9.)

1. A batch mixture for forming refractory bodies, containing a hydrous oxide of aluminum and sufficient mullite to prevent the shrinkage of the mass during firing.

1,752,868. CASKET HANDLE. BROR A. UTTER, Richmond, Ind., assignor to McClelland Casket Hardware Company, Richmond, Ind., a Corporation of Indiana. Filed Sept. 10, 1928. Serial No. 304,939. 1 Claim. (Cl. 16—112.)

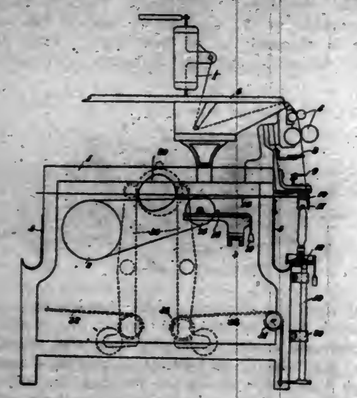


A casket handle arm formed from a flat blank of sheet metal, said blank being of inverted cruciform shape with the extending cross portions thereof forming cages, said blank bent on two parallel lines to form a central portion and two side portions parallel with each other and at right-angles to the central portion with said side portions including said cages.

1,752,869. SPINNING MACHINE. JOSEPH VAN DEN ABEELE, Ghent, Belgium. Filed Sept. 11, 1928, Serial No. 305,259, and in Belgium Apr. 27, 1928. 1 Claim. (Cl. 118—51.)

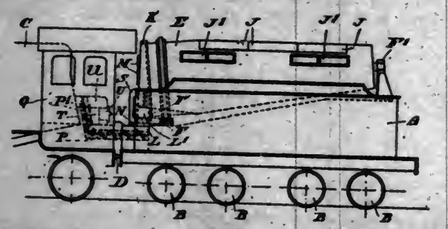
In a spinning machine, in combination: a set of delivery rollers for stretching the yarn, yarn guides, a hollow disc mounted for rotation on a stationary rail of the frame, a pair of short downward projecting arms carried by said disc, the end of one of which receives the yarn coming from

the yarn guide; means to rotate said disc and arms at a great speed, a separator formed with and above said stationary rail, a spindle secured to a movable rail, means to impart a vertical to-and-fro movement to said rail, combined with a gradual downward movement, the arrangement being such that at the beginning of the gradual downward movement the spindle and cop which is mounted thereon are completely engaged in the hollow disc and



separator, the diameter of the central hole of the disc and of the separator being slightly greater than that of the empty cop, the difference being just great enough to allow the yarn to pass through, the cop being, on the other hand, completely disengaged from the separator, disc and short arms at the end of the gradual downward movement, means to tip the cop at this moment for removing purposes and means to brake the spindle during spinning, which spindle is not driven to rotate.

1,752,870. FUEL BUNKER FOR THE STEAM GENERATORS OF LOCOMOTIVES, MARINE AND STATIONARY ENGINES, AND PLANT. ROBERT HARBEN WHITELEGG, Disley, England. Filed Apr. 4, 1929, Serial No. 352,541, and in Great Britain June 15, 1928. 16 Claims. (Cl. 105—234.)



2. A fuel bunker for steam generators of locomotives, marine and stationary engines and plant, consisting of a closed rotary vessel or container of which the lowermost side is inclined downwards towards the fuel discharge end which is closed by a separate fixed structure or casting having a fuel delivery outlet.

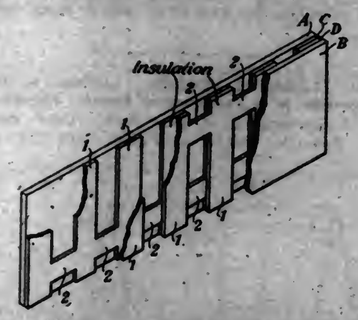
1,752,871. DOUBLE-SPEED, SYNCHRONOUS, DYNAMO-ELECTRIC MACHINE. ROBERT W. WIESEMAN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 21, 1929. Serial No. 372,765. 6 Claims. (Cl. 172—274.)



1. A field element for a dynamo electric machine consisting of one or more field units, each unit composed of four large salient poles and four small salient poles, said small salient poles being arranged in pairs and having magnetically symmetrical pole tips facing each other, said field element to consist of any number of field units necessary to obtain the desired number of poles.

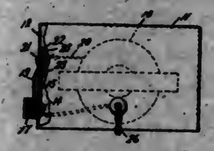
5. A synchronous dynamo electric machine of a type having windings that may be connected for either 2N poles or 3N poles, N being any even number, said machine having a field element consisting of 2N large salient poles and 2N small salient poles, said poles being assembled alternately in pairs around the periphery, said poles being provided with windings connected in two circuit groups, said two groups so connected to a suitable source of direct current that the direction of current in one group may be reversed, thereby changing the field element from 3N poles of alternate polarity to 2N poles of alternate polarity, and vice versa.

1,752,872. INSULATION FOR ELECTRICAL CONDUCTORS. HAROLD G. WITHER, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 21, 1929. Serial No. 334,083. 4 Claims. (Cl. 178—13.)



1. In combination, two parallel conductors; and two similar insulating members each comprising a plurality of spaced ribs adjacent ones of which are connected together by means of integral webs, said members being disposed between said conductors in such manner that passages are provided between the conductors at the webs of the members.

1,752,873. VARIABLE-VOLTAGE TRANSFORMER. ELMER J. ZELT, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Oct. 17, 1928. Serial No. 313,106. 3 Claims. (Cl. 171—119.)



1. A variable voltage transformer having a winding, a plurality of fixed contacts connected to said winding, an insulating plate, a switch member mounted on said plate and movable along one of its faces, and means at the other face of said plate for supporting said contacts in spaced relation, said plate being perforated to permit said switch member to move over said contacts.

1,752,874. FLYING BOAT. ERNST ZINDEL, Dessau, Germany, assignor to Hugo Junkers, Dessau, Germany. Filed June 9, 1928, Serial No. 284,059, and in Germany Feb. 17, 1928. 7 Claims. (Cl. 244—2.)

1. A flying boat of the monoplane twin-hull type, comprising a wing forming a continuous beam, two floating hulls adapted to carry the entire weight of the craft, said hulls being rigidly fixed to and extending below the bottom of said wing in spaced relation and substantially parallel



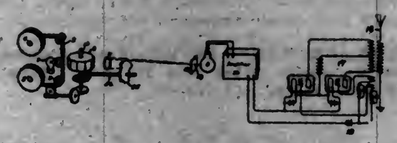
to the longitudinal middle axis of the craft, and means spaced from said wing for bracing the adjoining side walls of said hulls against each other and for reinforcing the portion of said wing intermediate said hulls.

1,752,875. SOLVENT-RECOVERY APPARATUS FOR RUBBER-SPREADING MACHINES. ERNEST ARENT ABELES, New York, N. Y. Filed Apr. 28, 1928. Serial No. 273,629. 2 Claims. (Cl. 34—3.)



1. In apparatus of the character described, an upwardly inclined hollow cooling plate for receiving and guiding a sheet of fabric in flat condition, a heating chamber relatively long and narrow and downwardly inclined relatively to said cooling means, a guide roller intermediate the cooling plate and heating chamber, a condensing chamber communicating with the heating chamber at the discharge end of the latter and means for guiding the sheet of material from the heating chamber into and out of the condensing chamber.

1,752,876. TRANSMISSION OF PICTURES. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 9, 1926. Serial No. 128,266. 20 Claims. (Cl. 178—7.)

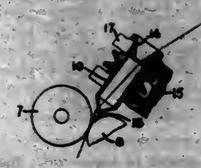


1. The method of transmitting a picture having a plurality of shades which comprises successively selecting the respective shades, transmitting code signals for the several selected shades, and causing a record to be made of the respective shades as determined by the code signals.

1,752,877. MACROCRYSTAL INGOT AND METHOD OF MAKING IT. HANS ALTERTHUM, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed July 6, 1922, Serial No. 573,193, and in Germany July 13, 1921. 9 Claims. (Cl. 148—4.)

1. The process of changing a microcrystalline body of a refractory metal into macrocrystal ingot having a substantially uniform macrocrystalline characteristic which consists in heating a body of pressed powdered tungsten for a considerable time at a temperature near the melting point of the metal in an atmosphere of a reducing gas which contains a small percentage of an oxidizing agent.

1,752,878. TWISTER TUBE FOR SPINNING FRAMES. ANTHON AMBYE, Andover, Mass., assignor to Davis & Furber Machine Company, Andover, Mass., a Corporation of Massachusetts. Filed Sept. 20, 1929. Serial No. 393,910. 4 Claims. (Cl. 19—154.)



1. A twister tube for spinning machines comprising bearings and a whorl, the bore of the tube presenting an inwardly converging entering section, a spherical tip member, having a radially projecting point, and means supporting the spherical tip member at a distance from the outlet end of the tube with the point extending outward on the tube axis and with the major segment of the spherical surface centering at the point free and unobstructed.

1,752,879. RADIATOR. EDWARD L. ANDERSON, Grosse Ile, Mich., assignor to American Blower Corporation, Detroit, Mich., a Corporation of Delaware. Filed Sept. 15, 1928. Serial No. 306,189. 5 Claims. (Cl. 257—154.)

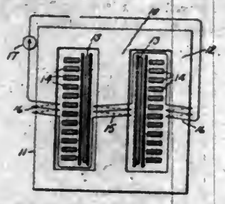


2. In a radiator, a plurality of steam pipes, a plurality of spaced heat radiating plates mounted thereon, said pipes being arranged in staggered relationship of streamline section, and said plates having their edges of streamline section, said edges being arranged alternately at different distances from the outside pipes, all streamline edges being so positioned that the incoming air stream between a pair of edges furtherest from the pipes may expand to its maximum before being divided by the streamline edge of the inner intermediate plate, and a plurality of spaced ridges arranged in each plate between the pipes to radiate the heat from the edges of said ridges of said plates into the air stream, said ridges being arranged in a sinuous path between the staggered pipes to follow the general direction of the air stream between the pipes.

1,752,880. TRANSFORMER. LOUIS F. BLUME, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 28, 1928. Serial No. 322,415. 8 Claims. (Cl. 175—356.)

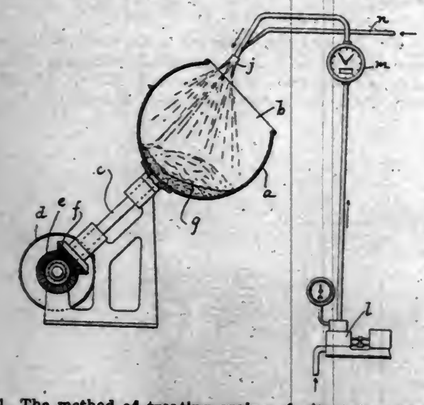
1. A transformer including a magnetic core having a winding leg and an outer section for return magnetic flux,

main windings on said winding leg, an auxiliary winding on said winding leg, and a second auxiliary winding on said outer section of the core, the turns of said auxiliary



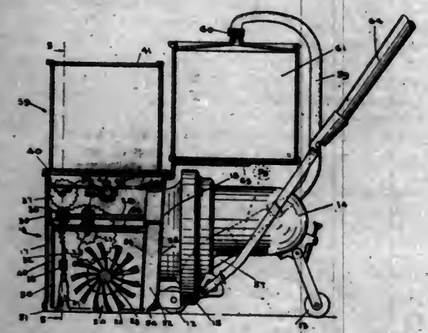
windings being connected in series with the voltage of the turns on the winding leg opposed to the voltage of the turns on the outer section of the core.

1,752,881. MANUFACTURE OF SMOKELESS POWDER. CHARLES R. BORLAND, Concord, Mass., assignor, by mesne assignments, to American Powder Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 1, 1924. Serial No. 696,202. 7 Claims. (Cl. 52—20.)



1. The method of treating grains of nitrated cotton to produce smokeless powder which consists in applying to the outer layer of a collection of such grains liquid solvent in such finely divided state that the separate particles of the solvent contain less than sufficient solvent to satisfy any single grain, and continuously changing the individual grains composing such outer layer.

1,752,882. SCRUBBING MACHINE. HARRY O. BOUTWELL, Los Angeles, Calif. Filed June 29, 1927. Serial No. 202,235. 2 Claims. (Cl. 15—7.)



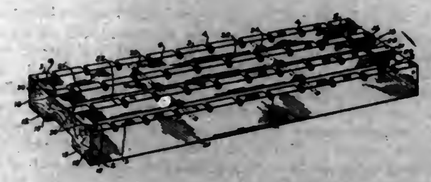
2. A scrubbing machine comprising in combination a scrubbing chamber having front, back and side walls, the front wall having a suction chamber open at the bottom, a plurality of scrubbing brushes mounted on vertical axes adjacent the front wall and at the corners of the scrubbing chamber, means to supply water to the brushes, and a pump operatively connected to the suction chamber.

1,752,883. FRAME FOR LICENSE PLATES. WILLIAM R. BUSENBARK, Akron, Ohio. Filed July 20, 1927. Serial No. 207,810. 1 Claim. (Cl. 40—152.)



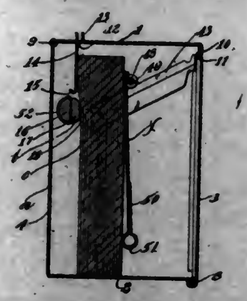
An attachment for an automobile license plate comprising a rectangular flexible elastic rubber frame whose elements are channel-shaped in cross-section to form an endless groove surrounding an opening in the frame, there being gussets in the corners to produce a widening of the frame at these points.

1,752,884. CREPE-STEAMING RACK. LANSING T. CARPENTER, Wilkes-Barre, Pa., assignor to B. G. Carpenter & Co. Inc., Wilkes-Barre, Pa. Filed Nov. 8, 1928. Serial No. 316,981. 8 Claims. (Cl. 242—130.)



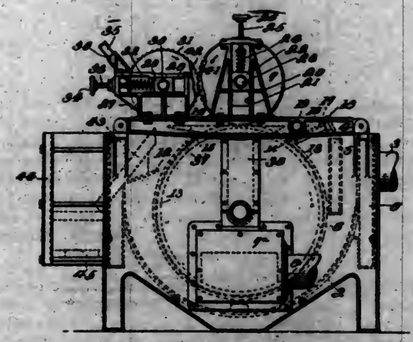
1. A sheet metal crepe steaming rack comprising a pair of hollow side bars, and a pair of box-like end members welded to the ends of said side bars, intermediate inverted channel bars supported by and welded to said end bars parallel to said side bars, said bars being provided with recesses adapted to receive and support the trunnion pins of bobbins or the like.

1,752,885. DISPENSING DEVICE. FRANK CARROLL, San Enselmo, Calif. Filed June 25, 1928. Serial No. 288,272. 1 Claim. (Cl. 312—53.)



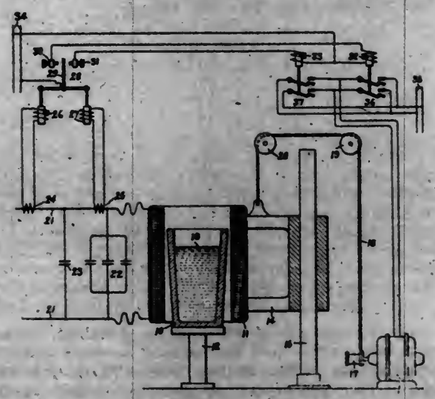
A dispensing device including a casing formed with a dispensing slot, a guide wall within said casing and communicating with said slot, inclined trackways within the casing, a follower movably suspended from said trackways, a roller beneath said guide wall, said follower normally urging a stack of papers, to be dispensed from said casing, against said guide wall and said roller, the position of said roller beneath said wall being such as to cause a bend in said stack, and said roller being formed with a frictional part and with a tread adapted to agitate said stack of papers during rotation of the roller and to move one of said papers through said slot.

1,752,886. APPARATUS FOR HANDLING PAPER PULP. FRED B. CHAPPELL, Glens Falls, N. Y., assignor of one-half to Glens Falls Machine Works, Glens Falls, N. Y., a Corporation of New York; Annie Mae Chappell and William T. Cowles executors of Fred B. Chappell, deceased. Filed Aug. 6, 1926. Serial No. 127,599. 1 Claim. (Cl. 92—42.)



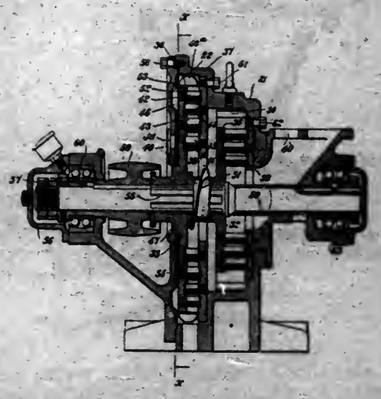
An apparatus for dewatering paper pulp including a tank having an inlet for a mixture of pulp and liquid, a foraminous drum arranged in said tank and through which water may be removed from the pulp, a water outlet for removing water from the interior of said drum, a couch roll coacting with the drum to squeese water from the pulp and arranged to remove the pulp from the drum, a squeesing roll coacting with the couch roll to squeese water from the pulp, and arranged to remove the pulp from the couch roll, means for removing the pulp from the squeesing roll in a semi-fluid state and a drain pan extending along the tank and arranged beneath the line of contact between the rolls for gathering moisture squeesed out between the rolls.

1,752,887. INDUCTION FURNACE. GEORGE A. CHUTTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 18, 1928. Serial No. 269,778. 8 Claims. (Cl. 266—1.5.)



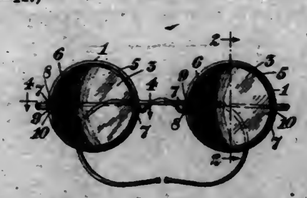
7. In a high frequency induction furnace, a heat refractory crucible for containing metal to be heated, a primary winding surrounding said crucible, a vertical post, a support for said winding slidably mounted on said post, a reversible motor connected to said support so as to raise said support when operated in one direction and to lower said support when operated in the other direction, an alternating current supply for said winding, and means responsive to changes in the power factor of said current from lagging to leading or from leading to lagging for reversing the direction of rotation of said motor and consequently the position of said winding, whereby a substantially unity power factor is maintained.

1,752,888. GRINDING, PULVERIZING, OR DISINTEGRATING MILL. WALTER AMELIUS CLOUD, Chiswick, London, England. Filed June 14, 1926, Serial No. 115,975, and in Great Britain July 20, 1925. 3 Claims. (Cl. 83—11.)



1. A grinding, pulverizing or disintegrating mill including cooperating pairs of disks, one disk of each pair being fixed and the other disk of each pair being rotary, cooperating pins on the disks of each pair for treating the material, propeller blades attached to one of the rotary disks, and a fan blade to assist in directing material from the center of the machine outwardly to said pins.

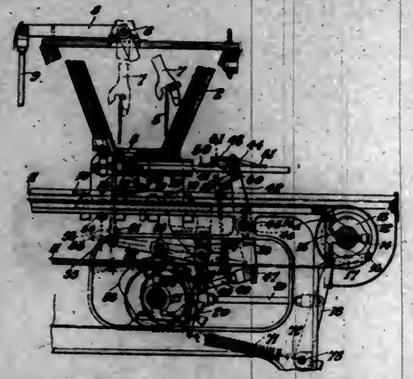
1,752,889. ANTIDAZZLE SPECTACLES. EDWIN THOMAS CORNWELL and FREDERICK WILLIAM CORNWELL, London, England. Filed Apr. 18, 1929, Serial No. 356,252, and in Great Britain Apr. 11, 1928. 1 Claim. (Cl. 88—41.)



In an eyeglass the combination with a circular supporting rim, of a second split rim rotatably mounted within said first rim and adapted to receive a light transmitting disc, means for connecting the ends of said split rim to rigidly clamp the disc therein, means projecting from and integral with a portion of said last named means by which said split rim may be rotated within said supporting rim, a false rim rotatably mounted within the circular supporting rim, a circular disc of transparent non-rigid sheet material mounted in the false rim and tinted at one side and clear at the other so as to shield a non-central portion only of the total vision through the

rim, the tinted portion being vignetted off toward the central portion of said disc, and a pair of discs of glass also mounted in the false rim sandwiching face-to-face the tinted disc between them, the false rim with the discs mounted within it being adjustable by rotation in the circular supporting rim carrying it to vary at will the direction in which the vision through the latter is shielded.

1,752,890. PLASTIC MATERIAL MEASURING AND FILLING MACHINE. WILLIAM ARTHUR COTTS, London, England, assignor to J. Lyons and Company, Limited, London, England. Filed Apr. 8, 1926, Serial No. 100,759, and in Great Britain May 14, 1925. 7 Claims. (Cl. 226—99.)



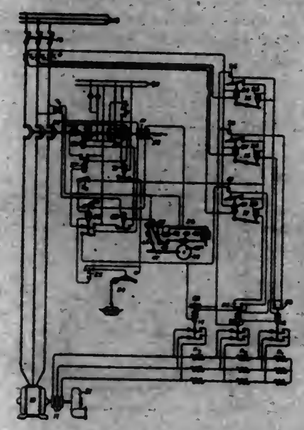
7. Apparatus for dividing off and feeding measured quantities of plastic material into receptacles, comprising a guide-way and intermittently operated mechanism for feeding the receptacles into filling position and delivering them therefrom after filling, a measuring cylinder having a reciprocating plunger, a continuously oscillating lever, two oppositely disposed pivoted pawls carried by the continuously oscillating lever one for effecting the feed and the other the return movement of the plunger, a reciprocating feeler normally extending transversely into the guide-way at filling position, a cam, a lever operated thereby, a catch lever, the catch lever being linked at one end to the reciprocating feeler and provided at its other end with a catch normally holding the cam operated lever away from the cam but removable therefrom by the feeler when engaged by a receptacle, and means actuated by the cam operated lever for causing the oscillating lever to engage the pawls with the feeding plunger.

1,752,891. CAPONIZING INSTRUMENT. CLIFFORD F. CRIDLAND, Carter County, Mont. Filed Sept. 5, 1929. Serial No. 390,607. 8 Claims. (Cl. 128—306.)



1. An instrument of the character described, comprising a pair of pivotally connected jaws each terminating at its forward end in a laterally directed finger, said fingers being adapted to be brought into side by side contacting relation, a guard member carried by one of the jaws normally overlapping the adjacent jaw, and means for securing the jaws in closed position.

1,752,892. MOTOR CONTROL. JOHN C. CUMBERLAND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 18, 1926. Serial No. 109,844. 11 Claims. (Cl. 172—289.)



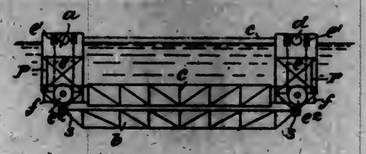
1. In combination in a system of motor control, line switch mechanism for the motor, motor speed regulating means, master switch mechanism for controlling said line switch mechanism to start and stop the motor, electro-responsive means controlled by the master switch mechanism for insuring immediate response of said speed regulating means to effect deceleration of the motor, and electro-responsive time element means under the control of said master mechanism for maintaining said line switch mechanism closed to insure continued operation of said motor at low speed for a predetermined time interval after operation of said master switch mechanism to effect deceleration of said motor.

1,752,893. HAIRPIN. EDWARD D. DAVIS, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed July 25, 1928. Serial No. 295,289. 6 Claims. (Cl. 132—50.)



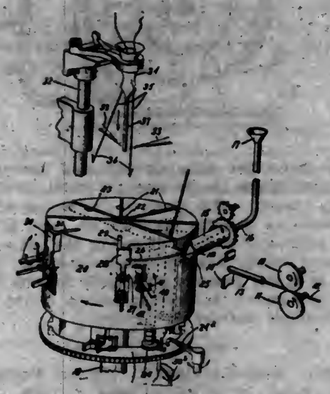
1. A clip hair pin of the character described, comprising a loop portion and hair-clasping members extending therefrom and having portions thereof in adjacent relation, at least one of said members having lock-engaging corrugations and at least one of said members having a superficially roughened inner surface adapted to engage individual hairs of the clasped locks.

1,752,894. FLOATING DOCK FOR WATER AIRCRAFT. PAUL DSEN, Kiel-Dietrichsdorf, Germany, assignor to the Firm Howaldtswerke Aktiengesellschaft, Kiel-Neumuhlen-Dietrichsdorf, Germany. Filed May 22, 1928, Serial No. 279,827, and in Germany May 3, 1927. 4 Claims. (Cl. 114—0.5.)



1. Floating dock for water aircraft comprising a liftable bottom member, shallow floating sides, vertically extending guide means operatively connecting said bottom member with said sides, transverse members connecting said sides below the maximum depth of submergence of said bottom member, and lifting gear disposed on said sides and operatively connected with said liftable bottom member.

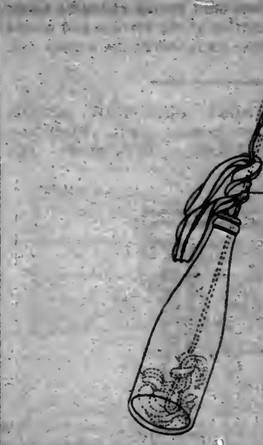
1,752,895. METHOD AND APPARATUS FOR MOUNTING FILAMENTS. HENDRIK DE JONG, Eindhoven, Netherlands, assignor to General Electric Company, a Corporation of New York. Filed Nov. 1, 1927, Serial No. 230,336, and in the Netherlands Dec. 1, 1926. 19 Claims. (Cl. 176—3.)



1. The method of mounting filaments on the support wires of incandescent lamps and similar devices which consists in positioning and holding a plurality of straight support wires in a holder with one end of each wire projecting from the holder, placing the filament transversely of said projecting ends of the support wires, bending said projecting ends about the filament, and inserting the other ends of all of said positioned support wires simultaneously in the glass arbor of a stem.

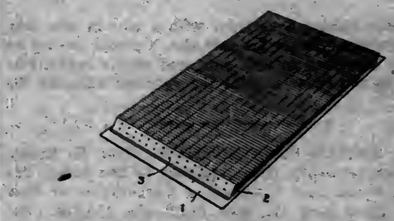
1,752,896. CLOTH HOLDER. WALTER H. DRUBNER, St. Paul, Minn. Filed Aug. 30, 1926. Serial No. 132,414. 1 Claim. (Cl. 15—141.)

A holder including, a shank and a handle secured to the upper end thereof, the other end being bent to form an elongated loop, the sides of the loop being formed into opposite arcuations with a narrow passage between the



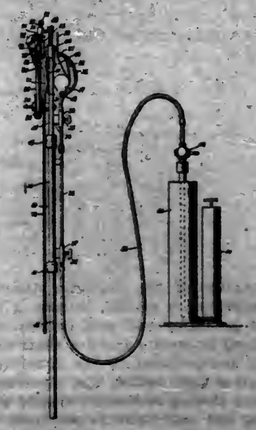
opposite upper and lower arcuations, and the free end of the wire bent to form a hook extending in proximity to the opposite side of the loop.

1,752,897. PLAITER. MARGARET D. DICKMAN, Duluth, Minn. Filed Apr. 20, 1929. Serial No. 356,830. 3 Claims. (Cl. 223—40.)



1. A plaiter of the class described composed of a plurality of overlapping perforated plait forming elements for the purpose described.

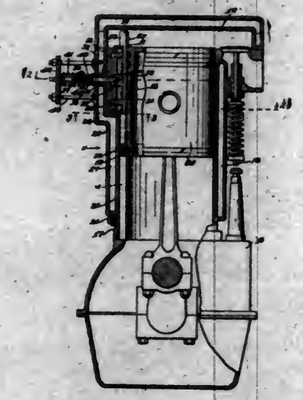
1,752,898. PAPER-HANGING MACHINE. MICHAEL J. DI GIACOMO, Wilmington, Del. Filed Mar. 14, 1929. Serial No. 346,895. 8 Claims. (Cl. 216—6.)



1. A paper hanging machine comprising, in combination, a supporting member, a paper supply roll carrier

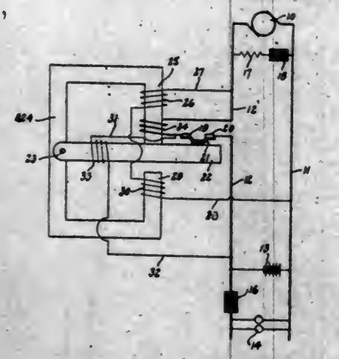
mounted on said member, means pivotally mounted on said member on an axis normal to the plane of the paper to press paper against a surface, said means yieldable about said pivot to follow irregularities of the surface and means to apply adhesive to the paper as it leaves the supply roll.

1,752,899. COUNTER-THRUST PRESSURE MOTOR. CLARENCE G. EDWARDS, Los Angeles, Calif. Filed Apr. 11, 1928. Serial No. 269,087. 13 Claims. (Cl. 123—173.)



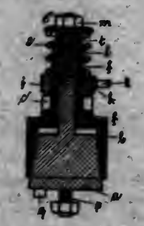
1. A motor having a cylinder with a slot in one side, a cover forming a closure for said slot, a piston having an obstruction operating in said slot, and means operatively connected to the cover to cool the cylinder adjacent the said slot.

1,752,900. SWITCH CONSTRUCTION. CARL W. EISENMANN, Nebraska City, Nebr., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed June 17, 1926, Serial No. 116,544. Renewed Aug. 16, 1929. 8 Claims. (Cl. 171—314.)



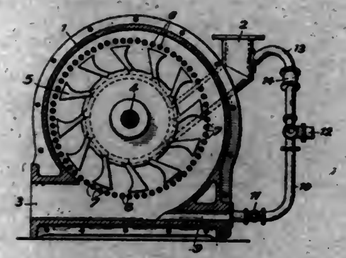
1. In apparatus of the character described, in combination, a generator, a storage battery, a switch for connecting said generator and said battery, electromagnetic means arranged to exert a tractive effort upon said switch substantially proportional to the generator voltage and tending to close said switch, and electromagnetic means for opposing a closing movement of said switch including an energizing coil responsive to generator voltage and an energizing coil responsive to the difference between generator voltage and battery voltage.

1,752,901. ROWING APPARATUS FOR GYMNASTIC EXERCISES. JULIUS FALKENBURG, Neuwied-on-the-Rhine, Germany. Filed June 25, 1927, Serial No. 201,497, and in Germany May 25, 1927. 2 Claims. (Cl. 272—72.)



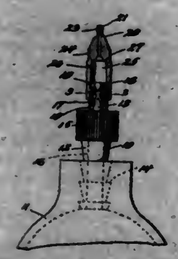
2. A rowing apparatus for gymnastic exercises, comprising a friction-resistance brake, said brake characterized by two interfitting friction cones the outer of said cones having an enlarged tubular extension, teeth formed on said enlarged extension, a ring having teeth in its lower edge slidably mounted on said tubular extension above said enlarged portion, and a ball bearing on the top end of said tubular extension.

1,752,902. DEVICE FOR DISINTEGRATING AND CONVEYING MATERIALS. AUGUST FARNER, Kusnacht-Zurich, Switzerland. Filed Aug. 15, 1927. Serial No. 213,026. 4 Claims. (Cl. 83—11.)



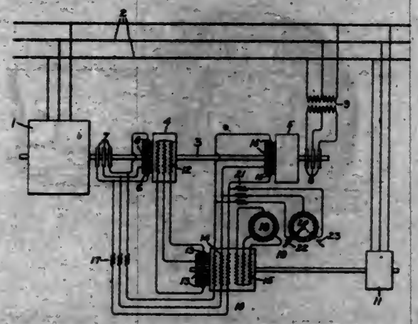
1. A device for disintegrating and conveying materials, comprising a blower having a casing provided with a delivery branch, a fan rotor in the casing whose blades are formed as crushing members, an anvil grid of separately removable bars surrounding the rotor, said grid and rotor being mounted excentrically to the casing, means to supply pressure air to said delivery branch and means to connect the delivery branch to the eye of the rotor to admit pressure air thereto.

1,752,903. NEEDLE DRIER. PHILIP WESLEY FLAGGE, High Point, N. C. Filed May 3, 1929. Serial No. 360,280. 10 Claims. (Cl. 34—26.)



1. A drier for tubular instruments, comprising means for passing the drying fluid from the interior of said tubular instruments out through both ends thereof.

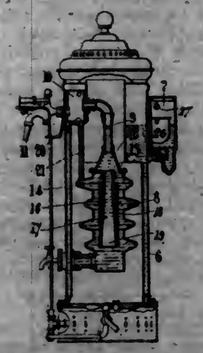
1,752,904. SYSTEM OF INDUCTION-MOTOR CONTROL. EUGEN HANDSCHIN, Baden, Switzerland, assignor to General Electric Company, a Corporation of New York. Filed Aug. 15, 1928, Serial No. 299,847, and in Germany Sept. 1, 1927. 6 Claims. (Cl. 172—274.)



1. The method of operating induction motors which consists in supplying to the secondary windings thereof an excitation voltage made up of two components, one component being substantially equal to the no-load secondary voltage of the induction motor at any speed, the second component supplying an additional excitation corresponding to the output torque of the motor, and reducing said second component to zero at synchronous speed.

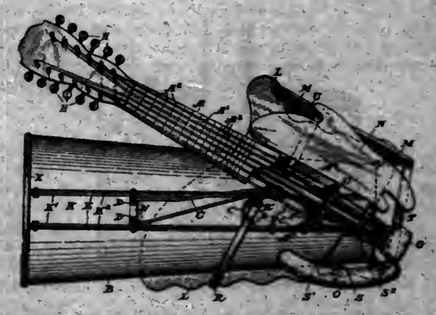
2. In combination an induction machine, an exciter connected in cascade with the rotor of said machine, means for causing said exciter to supply a voltage having two components one of said components being equal to the no-load secondary voltage of the induction machine at any speed, the second component being proportional to and determining the torque of said machine, and means for eliminating said second component at synchronous speed of the induction machine.

1,752,905. WATER BOILER. HAROLD HARGREAVES, Burnley, England, assignor to Jackson Boilers Limited, Leeds, England, a British Company. Filed Dec. 30, 1926, Serial No. 158,042, and in Great Britain Apr. 13, 1926. 1 Claim. (Cl. 126—350.)



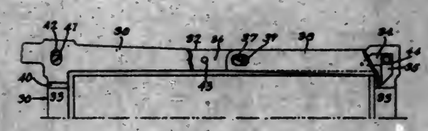
In apparatus of the class described, a boiler comprising an outer water jacket and an interiorly arranged boiling chamber, an expansion pipe leading upwardly from said boiling chamber, a collector into which the expansion pipe discharges, said collector being provided with a tap, and a duct of restricted capacity connecting the lower portion of the collector to the boiling chamber and means to supply said outer water jacket with water.

1,752,906. STRINGED INSTRUMENT. JOHAN EMIL HILLESBRANDT, Brooklyn, N. Y. Filed July 21, 1928. Serial No. 294,393. 5 Claims. (Cl. 84—294.)



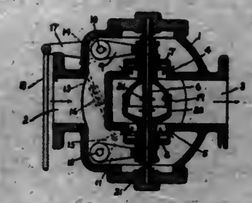
1. A stringed musical instrument comprising a metal resonator closed at one end thereof, a neck having a keyboard connected thereto adjacent said closed end and extending at an angle to the median line of said resonator, and a base-plate held in spaced relation to said resonator.

1,752,907. MOLDING FLASK. JAMES F. HINES, Lakewood, Ohio. Filed Jan. 2, 1926. Serial No. 78,795. 4 Claims. (Cl. 22—111.)



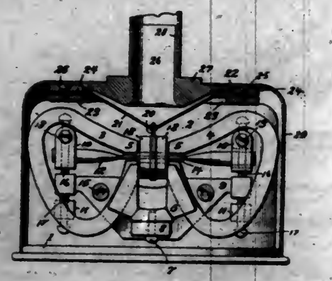
1. A flask comprising a polygonal shell having sand strip means on certain sides thereof each comprising means arranged, when advanced into the mold space, to extend into said space to a greater extent adjacent the ends of the side than centrally of said side.

1,752,908. BALANCED VALVE. PAUL HÖSEL, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Feb. 17, 1928, Serial No. 255,181, and in Germany Mar. 1, 1927. 4 Claims. (Cl. 277—12.)



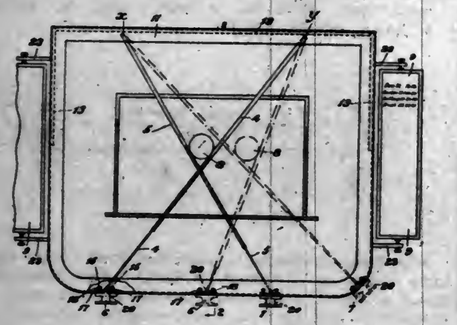
1. In a valve structure, a valve casing, walls in the casing which define oppositely-arranged valve seats, valve disks for said seats, means for moving said valve disks simultaneously toward and away from said valve seats, and balancing pistons for said valve disks.

1,752,909. LOUD-SPEAKER. CHARLES A. HOXIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 12, 1922. Serial No. 588,088. 34 Claims. (Cl. 179—114.)



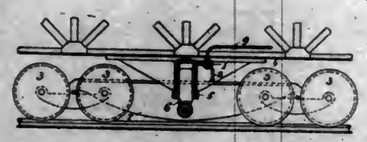
1. A sound reproducing device comprising a diaphragm actuating element consisting of a tubular member rigidly supported at its ends and flattened at its middle portion.

1,752,910. DEVICE FOR CARRYING MAPS. GEORGE PERCIVAL KENT, Grove Park, London, England. Filed Apr. 22, 1929, Serial No. 357,128, and in Great Britain Mar. 3, 1928. 6 Claims. (Cl. 88—39.)



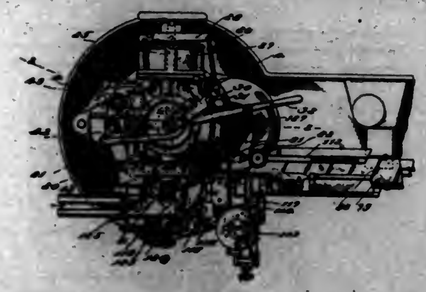
1. A device for holding maps comprising a frame having parallel transparent sheets, a pair of telescopic cross bars maintained in pivotal and adjustable engagement with the frame to provide adjacent to their points of intersection a support for a lens.

1,752,911. HANGAR FOR AIRSHIPS. OTTO KRELL, Berlin-Dahlem, Germany. Filed June 30, 1928, Serial No. 289,486, and in Germany Apr. 1, 1927. 9 Claims. (Cl. 244—2.)



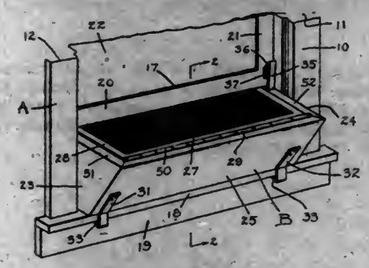
1. In a rotatable movable hangar for dirigibles, intermediate hydraulic members, consisting of a cylinder with reciprocating piston, inserted between the wheel truck and the supporting plate at the underside of the hangar platform, a hydraulic accumulator (pressure equaliser) in which a constant pressure is maintained, and pipes for connecting all said cylinders with said accumulator and one another.

1,752,912. CAN-CLOSING MACHINE. ALFRED L. KRONQUEST, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 15, 1926. Serial No. 155,017. 30 Claims. (Cl. 113—24.)



1. A can closing machine comprising a continuously rotating carrier, a series of cooperating rotating upper and lower chucks mounted on said carrier, seaming mechanism associated with each pair of cooperating chucks, means for raising and lowering the lower chuck for clamping and releasing the can body and can end, said means for raising and lowering the lower chuck including toggle levers adapted to move past dead center when the chuck is raised, whereby said toggle levers hold the chuck raised independent of the actuating means for the toggle levers, and actuating means for positively moving said toggle levers toward and away from dead center.

1,752,913. WINDOW VENTILATOR. HANNAH H. LEE, St. Paul, Minn., assignor of one-third to Frances R. Markert, St. Paul, Minn. Filed Dec. 10, 1927. Serial No. 239,121. 2 Claims. (Cl. 98—99.)

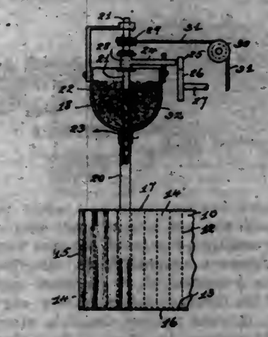


2. A ventilator for application to a double hung window comprising a case adapted to be inserted within the opening formed upon raising the lower sash, said case being open at the top, a perforate closure for said opening hinged to the case and having the movable edge thereof disposed beneath the lower sash, and means for simultaneously attaching the said case to said lower sash and restraining said closure from opening.

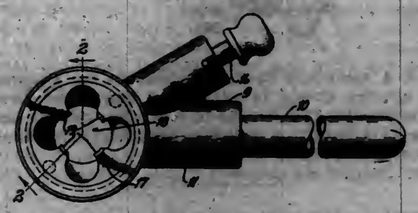
1,752,914. CORK-FILLED FABRIC AND PROCESS OF MAKING SAME. HUGO LEIBS, Baltimore, Md. Filed Oct. 22, 1926. Serial No. 143,502. 2 Claims. (Cl. 154—2.)

2. The process of producing an insulated cork-filled fabric consisting in stitching plural plies of fabric together to form a series of parallel passages closed at the bottom but open at the top, then slipping the plural ply fabric over the lower end of a tube until the tube-end terminates adjacent to the lower closed end of one of the parallel passages, feeding granular cork through the tube

to the lower closed-end of the passage to prevent frictional contact between the ingoing cork and the passage wall and causing the feeding of the cork into the passage to force the fabric from the tube as the filling of the passage progresses to effect uniform filling, then stitching across the filling ends of the parallel passages to close the latter and finally stitching the filled passages in a crosswise direction to confine the cork in cells.



1,752,915. THREAD-CUTTING DEVICE. TIDEMAN M. LILLEBERG, Chicago, Ill., assignor to The Nye Tool & Machine Works, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1928. Serial No. 272,110. 1 Claim. (Cl. 10—124.)



A thread-cutting device comprising a head having a cylindrical portion, an outwardly extending flange at one end of said portion having peripheral screw threads, an operating means journalled on said cylindrical portion and coacting therewith, a die block entirely exteriorly of said head having its base in contact with the outer side wall of said flange, whereby said operating member and die block are on opposite sides of the flange to aid in reinforcing the same, a ring surrounding said flange and screw threaded thereto, said ring extending outwardly beyond the flange and overlapping the die block whereby said flange and die block are both peripherally reinforced, said die-block having a tapered peripheral face, said ring also extending inwardly and having a tapered clamping face corresponding to and engaging the tapered face of the die-block to clamp the latter against the flange, and a pin connection detachably holding the die-block against rotation.

1,752,916. SOLUTIONS OF THE ACTIVE PRINCIPLE FROM ANIMAL ORGANS AND THE PROCESS OF PREPARING THE SAME. WILLI LUDWIG, Hochst-on-the-Main, and OTTO SCHAUMANN, Wiesbaden, Germany, assignors to Winthrop Chemical Company Inc., New York, N. Y., a Corporation. Filed Oct. 6, 1927, Serial No. 224,516, and in Germany Oct. 15, 1926. 7 Claims. (Cl. 167—74.)

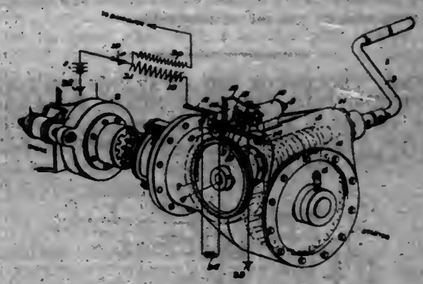
2. The process of preparing efficacious and well endurable solutions of the active principle from animal organs, which process consists in treating the respective crude extracts obtained in the usual manner with diethyline and fractionally precipitating from the extract so prepared the ballast substances by means of water.

6. As new products, solutions of the active principle from animal organs in diethyline and water being free from any ballast-substances and capable of being diluted to any extent with water without showing any precipitation, said products possessing a very high efficacy and the property of being well endurable.

1,752,917. DIELECTRIC SUBSTANCE. ALAN R. LUKENS, Wyoming, Ohio, assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Apr. 12, 1928. Serial No. 681,743. 4 Claims. (Cl. 106—2.)

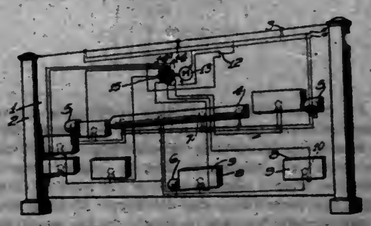
3. A molded article for use in the presence of electrolytic action comprising bitumen with finely divided acid resistant mineral matter and organic fibre, said organic fibre being in proporton of 10% to 15% of the mass by weght, and uniformly dispersed in the bitumen and coated thereby to an extent comparative to colloidal mixture.

1,752,918. IGNITION SYSTEM. CHARLES MARCUS, New York, N. Y., assignor to Eclipse Machine Company, Elmira Heights, N. Y., a Corporation of New York. Filed Nov. 12, 1927. Serial No. 232,927. 5 Claims. (Cl. 123—179.)



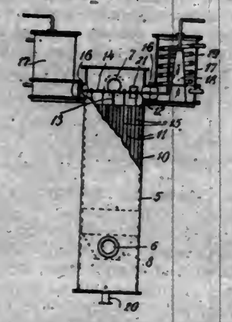
1. In combination with an engine starter, a battery, means including a cam mounted on and actuated by said starter, contacts controlled by said cam, an induction coil having the primary thereof in circuit with said contacts, and a switch for placing said battery in circuit with said primary and contacts.

1,752,919. ADVERTISING APPARATUS. THOMAS J. MCCLEAVE, San Diego, Calif. Filed June 26, 1926. Serial No. 118,711. 2 Claims. (Cl. 40—130.)



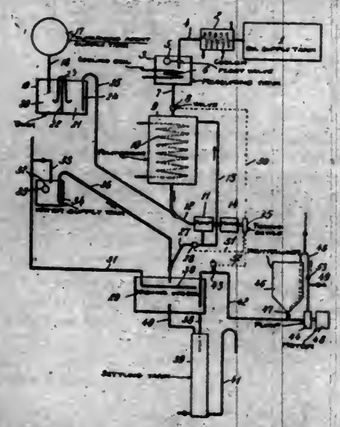
2. In an advertising apparatus of the class described, a scenic display having readily replaceable light emitting advertising portions arranged therein, an illuminating compartment arranged at the back side of said scenic display behind each of said light emitting portions, and means for variously, independently, and intermittently illuminating said compartments.

1,752,920. ELECTRICAL PRECIPITATOR. GREGORY EDWARD MCCLOSKEY, South Orange, N. J., assignor to The Barrett Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 10, 1927. Serial No. 167,388. 2 Claims. (Cl. 183—7.)



1. In an electrical precipitator, a shell having an inlet and an outlet for gases, two sets of electrodes therein and a casing spaced laterally from the shell and forming a chamber, the shell having an opening below the top thereof affording communication with the chamber and the bottom of the casing being in the plane of the bottom of the opening, whereby liquid condensed in the chamber is permitted to drain into the shell, an insulator in the chamber, and a bus-bar supported on the insulator and connected to one set of electrodes.

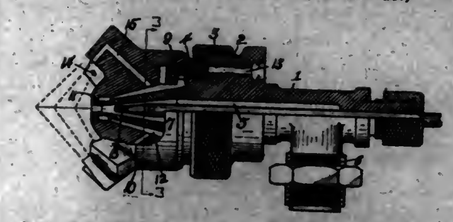
1,752,921. PROCESS OF AND APPARATUS FOR POLYMERIZING OILS. STUART P. MILLER, Philadelphia, Pa., assignor to The Barrett Company, a Corporation of New Jersey. Filed Jan. 23, 1925. Serial No. 4,141. 18 Claims. (Cl. 260—7.)



7. In combination, a mixing device, a plurality of measuring tanks in communication with said mixing device, means for permitting the discharge of said measuring tanks into said mixing device, a supply line in communication with a discharge line for said mixing device, a valve for permitting the discharge of said mixing device and supply line and a single means controlling said discharge means and valve.

14. The process of polymerizing oil which comprises periodically introducing a definite amount of polymerizable oil and a definite amount of a polymerizing agent and agitating said oil and agent for a definite length of time, the introduction of the polymerizing agent being automatically initiated and controlled by the agitation of the oil.

1,752,922. SPRAY HEAD. GODFREY A. MUELLER, Point Place, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 21, 1927. Serial No. 185,884. 4 Claims. (Cl. 91—45.)



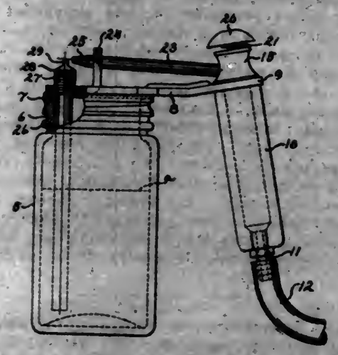
1. A spray-head having inner and outer nozzles for discharging liquid and air respectively, said outer nozzle having a plurality of sets of opposed supplemental air discharge passages adapted to be selectively placed in register with a source of air pressure supply, with the passages of the different sets relatively angled to discharge their air streams against the main stream at different points therealong to effect a flattening of such stream.

1,752,923. SPRAY HEAD. GODFREY A. MUELLER, Point Place, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 21, 1927. Serial No. 185,885. 11 Claims. (Cl. 91—45.)



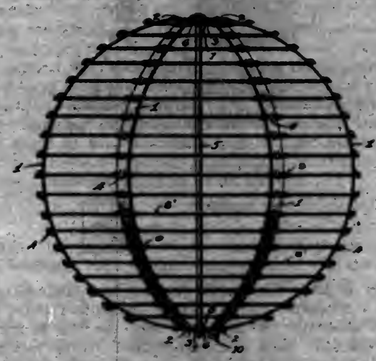
1. A spray-head having provision for the discharge of a spraying stream therefrom, and nipples for directing supplemental fluid streams in converging relation against the main stream, said nipples being angularly adjustable to vary the angles of convergence.

1,752,924. SPRAYING DEVICE. GODFREY A. MUELLER, Point Place, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 29, 1928. Serial No. 257,833. 5 Claims. (Cl. 91—45.)



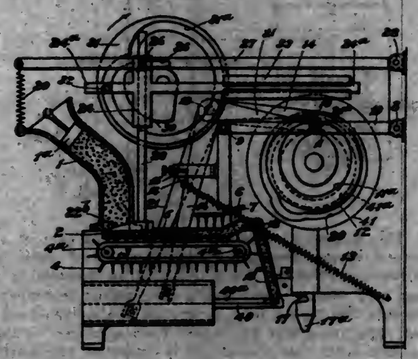
1. The combination with a receptacle for containing material to be sprayed, of a material discharge conduit leading therefrom and having a discharge nozzle, an arm secured to the top of the receptacle and having an opening in its outer end portion, a compressed air conduit, a plug having a threaded connection with the conduit and extending through said opening and provided with an outlet passage, and an air discharge nozzle leading from said passage and directed across the material discharge nozzle, said plug and conduit having cooperating surfaces to clamp them to the edge of the opening in the arm, said opening being long enough to permit adjustment of said air nozzle and conduit toward and away from the material discharge nozzle.

1,752,925. RADIOANTENNA. LEO F. NOIROT, OTTO G. NOIROT, and GEORGE C. RUPERT, Peoria, Ill. Filed Oct. 21, 1927. Serial No. 227,805. 3 Claims. (Cl. 250—33.)



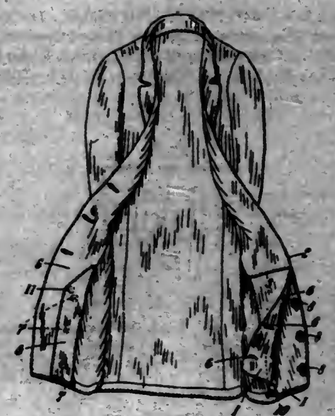
1. An antenna structure including a series of strips circularly curved in the direction of their lengths, a member at each end of the strips to which the same are secured in radiating spaced relation, a series of ears struck up from the strips at their outer sides along the lengths thereof in spaced relation, and a winding of wire mounted upon the structure lodged against said ears, the windings of said wire being insulated from said strips and from each other.

1,752,926. BRUSH-MAKING MACHINE. EDWARD BAILEY PAGE, Norwich, England. Filed June 28, 1928, Serial No. 288,978, and in Great Britain July 18, 1927. 5 Claims. (Cl. 300—7.)



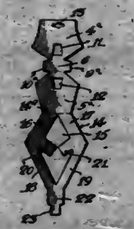
1. An automatic bristle feeding device for brush making machines, comprising a bristle feed hopper, a downwardly extending feed channel for the bristles, means for feeding the bristles from the hopper to the downwardly extending feed channel, a horisontally moving picker, a vertically reciprocating filling nozzle, and means for reciprocating the same, and means for reciprocating the picker horisontally below the lower end of the downwardly extending feed channel so as to convey a knot of bristles from the picker to the vertically reciprocating filling nozzle.

1,752,927. WEARING APPAREL. ADOLPHE ALIX PERSON, Oxford, England, assignor of one-half to Elliston & Cavell Limited, Oxford, England, a Company of Great Britain. Filed Oct. 29, 1928, Serial No. 315,778, and in Great Britain Jan. 12, 1928. 1 Claim. (Cl. 2—85.)



A garment of the extending skirt type with a divided front, having one edge of the divided front formed, adjacent its lower edge, with a narrow plait, which latter extends upwards for a short distance and is secured to the inner surface of the garment by a horizontal line of stitching at a point adjacent the lowermost coat fastening, a short narrow strip attached adjacent the lower edge of the opposite divided front and means for interengaging the said strip with the plait, and securing the plait and the strip to the edges of the garment carrying them when same are not in use.

1,752,928. PROCESS OF AND BLANK FOR USE IN MAKING SLIDERS FOR SEPARABLE FASTENERS. GEORGE R. PRENTICE, Berlin, Conn. Filed Apr. 22, 1927. Serial No. 185,875. 27 Claims. (Cl. 113—116.)

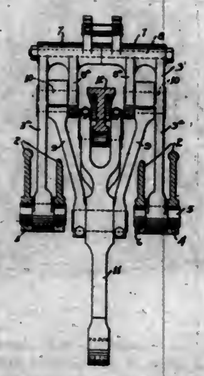


1. That process of making a slider of the class described which comprises as steps preparing a sheet metal blank having parts shaped appropriately to constitute front and rear wings, a neck, and a flat rivet member, bending the blank at the junctions of the neck and wings to bring the wings into substantially parallel relation, disposing the flat surface of the rivet member in a plane which is substantially perpendicular to the wings and parallel to the longitudinal axis of the slider, and causing the rivet member to unite the wings at a point spaced from the neck.

21. A blank for use in making a one-piece slider body for use with separable fasteners of the class described,

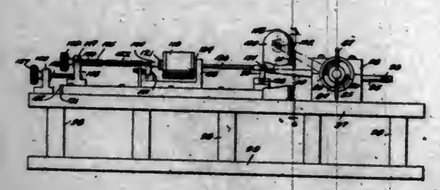
said blank consisting of a unitary piece of sheet material having wing portions united by a relatively narrow neck, an extension united to the free end of one wing, and a rivet member integral with said extension at a point intermediate the ends of the latter.

1,752,929. LOCOMOTIVE VALVE GEAR. JAY D. PURDY, Swanton, Ohio, assignor to The Pilliod Company, Swanton, Ohio, a Corporation of Ohio. Filed June 18, 1929. Serial No. 370,542. 3 Claims. (Cl. 121—168.)



1. In a locomotive valve gear, a gear frame having pairs of laterally spaced parallel side bars, a reverse yoke having vertically disposed arms, means pivotally connecting each arm to one pair of side bars, a pair of shorter arms integral with said reverse yoke, each shorter arm being spaced inwardly from one of said vertically disposed arms, a pair of radius bars, and means pivotally connecting each radius bar to an adjacent shorter and vertically disposed arm.

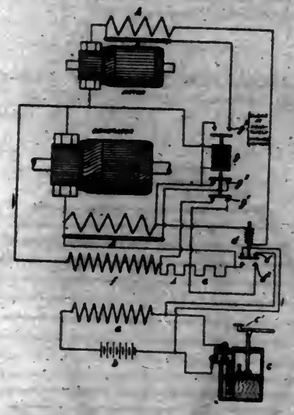
1,752,930. ELECTRIC SWITCH. PHILIP POLLOCK QUAYLE, Chevy Chase, Md. Filed June 14, 1927. Serial No. 198,862. 9 Claims. (Cl. 200—106.)



1. A switch comprising a shaft, an arm carried by said shaft, a terminal interposed in a circuit and adapted to be electrically engaged by said arm, balanced springs coupled to the ends of said shaft, and a latch to hold said arm under the tension of said springs.

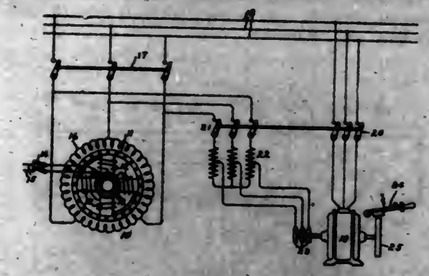
1,752,931. GAS ELECTRIC DRIVE. FRANK E. QUERNER, Teaneck, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 11, 1926. Serial No. 140,764. 11 Claims. (Cl. 290—14.)

1. In a drive for motor vehicles, in combination, an engine, a generator driven thereby, a motor and means operable upon a predetermined excess voltage to weaken the motor field and upon a predetermined minimum voltage to strengthen the field, whereby the engine speed is maintained within a predetermined range dependent upon the voltage off of the motor.



10. In a drive for motor vehicles in combination, an engine, a generator driven thereby, series and shunt fields for the generator, a motor, a field for the motor and means operable upon a predetermined excess voltage to weaken the motor field and generator shunt field and strengthen the generator series field, and upon a predetermined minimum voltage to strengthen the first two and weaken the last, whereby the engine speed is maintained within a predetermined range dependent upon the voltage of the motor.

1,752,932. STARTING SYNCHRONOUS MOTORS. ALEXANDER R. STEVENSON, Jr., Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 3, 1925. Serial No. 12,921. 4 Claims. (Cl. 172—280.)



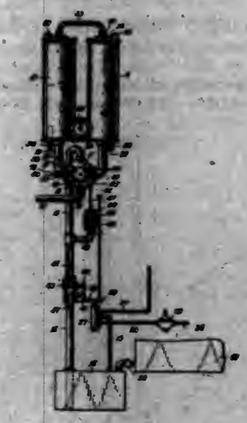
1. The method of starting an alternating current synchronous motor having direct current field poles and amortisseur windings which consists in connecting the motor to a source of substantially constant frequency to accelerate the motor to a predetermined subsynchronous speed, then energizing the motor from a source having a frequency such that the motor is operated substantially synchronously at said predetermined speed, then exciting the direct current poles of the motor to lock the same in step with said second source, then increasing the frequency of said second source until the motor is accelerated to substantially synchronous speed, with respect to said first source, and then reconnecting the motor with the field poles excited to said first source to operate the motor at synchronous speed.

3. The combination of an alternating current supply source of substantially constant frequency, an alternating current synchronous motor having direct current field poles and relatively high resistance amortisseur windings for supplying a relatively high torque for starting the motor under load and a lower torque for accelerating the motor under load to a sub-synchronous speed, a source of direct current for exciting said field poles, field switch mechanism for controlling the excitation of said field poles, line switch mechanism for connecting the motor to said source of substantially constant frequency to start and accelerate the motor under load to the said sub-synchronous speed with the direct current field poles unexcited and to operate the motor at synchronous speed when accelerated thereto with the direct current field poles excited, frequency changing means, switch mechanism for connecting said means to the source of substantially constant frequency and to said motor with the direct current field poles excited to lock the synchronous motor in step with said frequency changing means at said sub-synchronous speed, and means for controlling said frequency changing means to gradually increase the frequency supplied to said motor and thereby accelerating same from the said sub-synchronous to synchronous speed with the direct current field poles excited.

1,752,933. IMMERSION WAX. FREDERICK W. SULLIVAN, Jr., Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Feb. 17, 1928. Serial No. 255,189. 4 Claims. (Cl. 134—15.)

3. The method of prolonging the life of an immersion wax bath comprising adding to a bath of paraffin wax from about 0.05% to about 0.5% of an organic aromatic compound of the class including beta naphthol, pyrogallol, diphenylamine, gallic acid, hydroquinone and paraphenylenediamine.

1,752,934. LIQUID-DISPENSING ARRANGEMENT. WILLIAM S. TOWNSEND and WALTER H. PARKER, Rochester, Pa., assignors, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed Feb. 19, 1926. Serial No. 89,285. 15 Claims. (Cl. 221—100.)

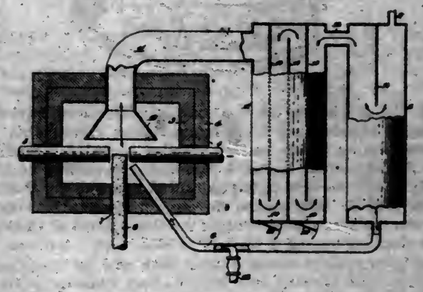


1. In liquid dispensing apparatus, the combination of a measuring container, a liquid supply line for supplying liquid to said container, means for normally reducing the pressure of the supplied liquid at a given point in the supply line, means for controlling the supply of liquid to said container, and means responsive to increased pressure on the low pressure side of said point for causing operation of said controlling means.

1,752,935. ARTIFICIAL FUEL. JOSEPH A. WYLER, Allentown, Pa., assignor to Trojan Powder Company, a Corporation of New York. Filed Jan. 9, 1928. Serial No. 245,627. 3 Claims. (Cl. 44—7.)

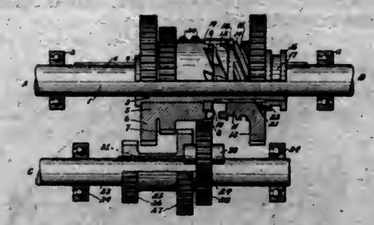
1. An artificial infusible fuel comprising a solidified mixture of alcohol and nitrostarch.

1,752,936. PROCESS FOR THE MANUFACTURE OF ANHYDROUS ALUMINUM CHLORIDE. WRAY ROBERT AUSTIN and JAMES NORMAN SMITH, Toronto, Ontario, Canada, assignors to Farley G. Clark, Toronto, Canada. Filed July 7, 1923. Serial No. 649,999. 16 Claims. (Cl. 23—95.)



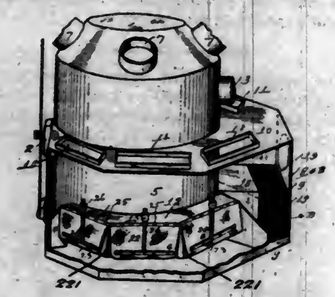
3. The process of making anhydrous aluminum chloride, which comprises heating in a furnace a charge comprising an aluminic material, carbon and chlorine, there being a localized zone within the furnace heated to the volatilization temperature of the carbon and into which the charge is fed.

1,752,937. AUTOMATIC CLUTCH MECHANISM. DAVID A. BARNETT, New Haven, Conn., assignor to Heany Laboratories, Inc., New Haven, Conn., a Corporation of Connecticut. Filed Feb. 24, 1922. Serial No. 538,875. 2 Claims. (Cl. 74—57.)



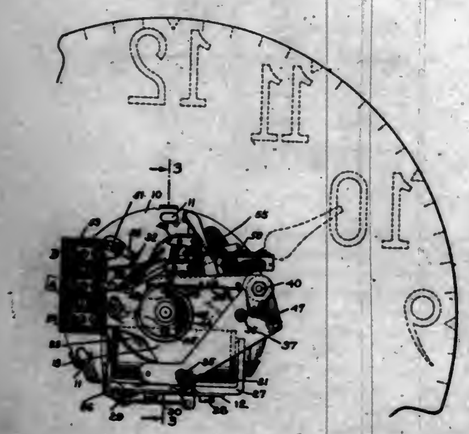
1. In a power transmission mechanism, a shaft, a sleeve slidably and non-rotatably mounted upon said shaft, a clutch member rotatably mounted on said sleeve, a constantly rotating shaft adjacent said first shaft, selective means depending on the position of said sleeve on said first shaft for driving said clutch member at different speeds with respect to said constantly driven shaft, a second clutch member non-rotatably mounted on said sleeve but adapted to have a limited axial movement thereupon toward and away from said first clutch member, said clutch members being adapted to engage each other, whereby said second clutch member is driven by said first clutch member when in engagement, and means to cause said clutch members to separate when said first shaft tends to rotate faster than said first clutch member and to cause the engagement of said clutch members when said first shaft tends to rotate slower than said first clutch member.

1,752,938. AIR-HEATING FURNACE. CHRISTIAN BECKER, Walker Township, Kent County, and FRANK KLEINHEKSEL, Flint, Mich. Filed June 13, 1928. Serial No. 285,028. 8 Claims. (Cl. 126—110.)



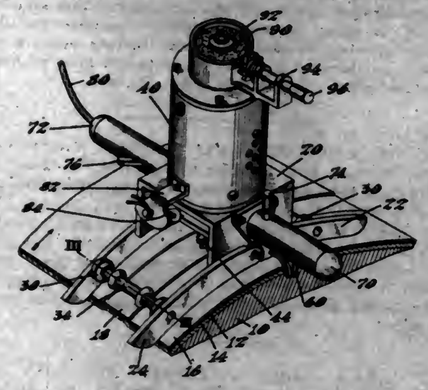
1. An air heater of the character described having a heating element, an open-bottom casing surrounding the same forming an air heating chamber provided with warm air discharge pipe means, a base casing extending horizontally about the first casing and forming a cold air chamber with cold air inlet means thereto, an intermediate casing within the base casing venting into the bottom of the heating chamber having a vertical outside wall, a top wall for said intermediate casing joining with said main casing, a bottom wall beneath said intermediate chamber provided with an air intake therethrough from said cold air chamber to the heating chamber, a normally open flexible valve means suspended in contact with the outer wall of the said intermediate casing and projecting beneath said outside wall and the flexible lower edge adapted to close against the outer wall of the base casing to shunt off the cold air chamber from the heating chamber, an air chute, and fan means for forcing air from said cold air chamber into said heating chamber and thus closing the said valve means by ar pressure therein to compel forced circulation through the heating chamber.

1,752,939. SECONDARY CLOCK. JAMES W. BAYCE, Bloomfield, N. J., assignor to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed June 25, 1925. Serial No. 39,459. 6 Claims. (Cl. 58—26.)



1. A secondary clock having driving mechanism, an impulse magnet, synchronizing control means, a minute shaft, and comprising in combination, a supporting structure which comprises a front plate and a rear plate, means for supporting the impulse magnet between the plates for operating the minute shaft from said impulse magnet, said minute shaft extending rearwardly beyond the rear plate, two contact cams carried on said minute shaft in accessible position beyond the rear plate, said synchronizing control means comprising one arm pivotally mounted in accessible position rearwardly of the rear plate and carrying two contact points and coacting with one of the cams and a second arm also disposed rearwardly of the rear plate and coacting with the other of said cams and carrying a switch blade, and another plate secured to the rear plate for pivotally supporting said arms.

1,752,940. PROCESS AND TOOL FOR SURFACING BLANKET CYLINDERS. ALBERT E. CILLEY, Melrose, Mass. Filed July 3, 1928. Serial No. 290,131. 18 Claims. (Cl. 144—119.)



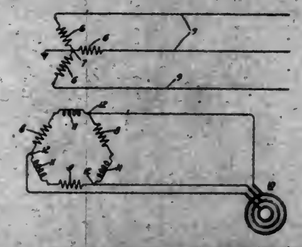
1. A bolster cutting tool comprising a driven cutter, spaced shoes disposed on either side of the cutter, curved to fit the contour of the roll to be operated upon, and serving to locate the cutter with reference to the surface thereof, and means disposed between said shoes for positioning the tools as a whole with reference to a bolster in the roll.

1,752,941. LIQUID-DISPENSING APPARATUS. ANDREW W. CLEARY, Rochester, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed Apr. 7, 1927. Serial No. 181,647. 18 Claims. (Cl. 21—100.)



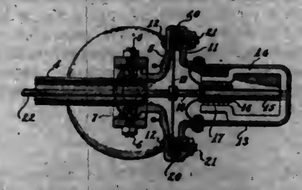
1. In liquid dispensing apparatus of the class described, the combination of a vertically adjustable liquid level controlling conduit having a laterally movable handle, measuring stops adapted to be selectively engaged by said handle, and a laterally movable member mounted on said apparatus independently of said handle for holding said handle against a measuring stop.

1,752,942. PROTECTION OF ELECTRIC SYSTEMS. GEORGE G. CREE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 9, 1928. Serial No. 253,180. 10 Claims. (Cl. 171—97.)



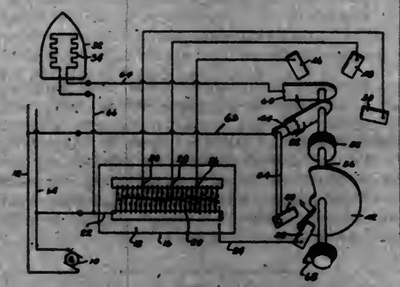
1. In combination with a transformer having windings connected in star with the neutral grounded and windings connected in delta, an impedance device comprising a plurality of mutually inductively related windings connected alternately in series with the delta connected windings.

1,752,943. ELECTRICAL REPRODUCING DEVICE. FRANK L. DYER, Montclair, N. J. Filed Dec. 22, 1924. Serial No. 757,488. 4 Claims. (Cl. 179—100.41.)



1. In an electrical reproducing device the combination of an arm, a needle arm pivoted to the same at one end, a substantially aperiodic flat spring mounted at the other end of the arm, said spring being adapted to maintain the parts in normal position, connections for transmitting vibrations reciprocally between the needle arm and said spring and telephone transmitter mechanism operated by the vibration of the needle arm, substantially as set forth.

1,752,944. MEANS FOR AND METHOD OF CONTROLLING ALTERNATING CURRENTS. AUGUST D. ETZEN, New York, N. Y. Filed Apr. 24, 1928. Serial No. 272,554. 7 Claims. (Cl. 171—97.)



1. In a current controller for alternating currents, an auto-transformer having incoming and outgoing terminals and intermediate taps, conductors for positively connecting the incoming terminal to one main of the source of supply and to one lead of a work circuit, and a unitary switch mechanism having means for connecting the other lead of said work circuit to the other main, and then successively connecting said other lead to said taps one at a time, and means connecting the outgoing terminal of said auto-transformer with the second main substantially simultaneously with the connection of the first tap and maintaining the connection between said outgoing terminal and second main during the connection of said other lead with said other taps.

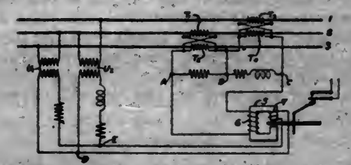
1,752,945. OIL COMPOSITION, ETC. WALTER W. EVANS, New Rochelle, N. Y., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1927. Serial No. 221,623. 6 Claims. (Cl. 87—9.)

1. An oil or grease composition comprising an animal or vegetable oil or fat and a small quantity of an alkylene diaryl diamine.

1,752,946. OIL COMPOSITION, ETC. WALTER W. EVANS, Longmeadow, Mass., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Sept. 23, 1927, Serial No. 221,623. Divided and this application filed Dec. 26, 1928. Serial No. 328,628. 4 Claims. (Cl. 87—9.)

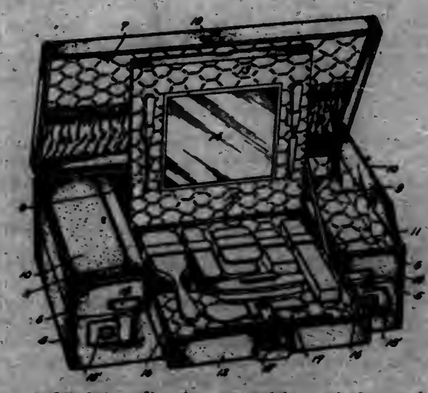
3. A mineral oil or grease which is intended for use under conditions tending to accelerate deterioration which contains an alkylenediaryldiamine to resist such deterioration.

1,752,947. PROTECTIVE SYSTEM. VLADIMIR GENKIN, Marseille, France. Filed Dec. 23, 1924, Serial No. 757,620, and in Belgium Mar. 21, 1924. 4 Claims. (Cl. 175—294.)



1. In a polyphase system, the combination with an electro-responsive device, of means for energizing said device from said circuit in accordance with symmetrical phase-sequence components of voltage and also of current free of the zero-current component, including a plurality of voltage transformers in line-to-line relation and a plurality of current transformers connected in reverse relationship to neutralize the zero component.

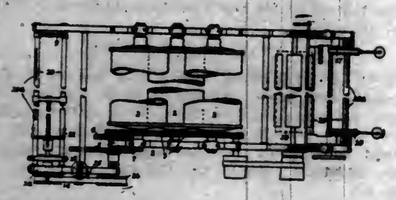
1,752,948. FITTED TRAVELING BAG. ROBERT HERRMANN, New York, N. Y. Filed Feb. 9, 1927. Serial No. 166,997. 4 Claims. (Cl. 190—51.)



1. A fitted traveling bag comprising a body, an intermediate portion hinged to the body and coextensive there-

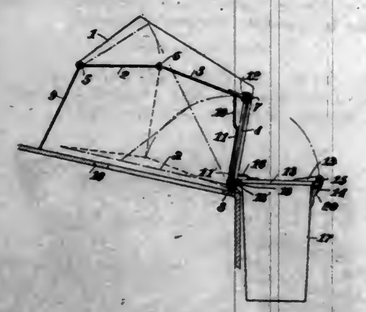
with, a unitary cover hinged to the intermediate portion and coextensive therewith the intermediate portion having a centrally disposed open-topped slideway, and a removable toilet case, having a cover, slidable in and out of said guideway and removable therefrom as a unit.

1,752,949. FINISHING MACHINE. FLORENT HINNEKENS, Paterson, N. J., assignor to Van Vlaanderen Machine Company, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 12, 1928. Serial No. 318,885. 2 Claims. (Cl. 34—48.)



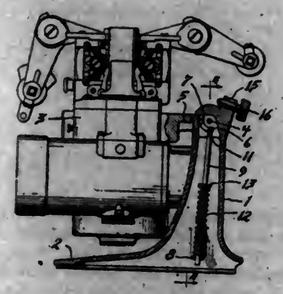
1. A finishing machine of the class in which the goods are passed therethrough first in size-receiving relation to a size-applying means and then around the surfaces of a plurality of heated substantially cylindrical elements whose axes are parallel having two pairs of scales arranged one relatively forward of said means and the other aft of said elements and with the scales in each pair on opposite sides of a common plane at right angles to said axes and all the scales extending transversely of said plane and all having markings consecutively spaced from said plane and at equal intervals from each other and the markings on each scale having indices reading in regular progression from said plane and those on any one scale identical to those on any other scale.

1,752,950. REFUSE-HANDLING APPARATUS. KARL HIRSCHNER, Weidenau-on-the-Sieg, Germany, assignor to the Firm Schmidt & Melmer, Weidenau-on-the-Sieg, Germany. Filed Dec. 17, 1925, Serial No. 76,091, and in Germany Jan. 2, 1925. 13 Claims. (Cl. 220—98.)



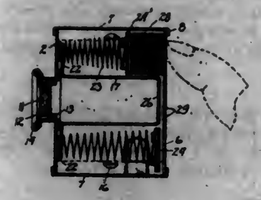
1. In a refuse handling apparatus, comprising a collecting cart and a refuse transfer bin consisting of a bin body having a hinged closure lid, the combination of a foldable cart hood including a normally vertical orificed plate pivoted at its lower edge to said cart, means at the lower edge of said orificed plate for pivotally engaging an upper portion of the bin body, whereby the bin may be swung upwardly to position the lidded end thereof in said orifice, and means for automatically pivotally engaging another portion of the bin body as the bin is swung further to invert the same.

1,752,951. PICTURE-PROJECTING MACHINE. ALBERT S. HOWELL, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 17, 1928. Serial No. 300,229. 4 Claims. (Cl. 248—47.)



1. In a picture projecting machine the combination with a supporting member provided with a hollow standard and a supported member pivotally mounted on said standard on an axis transverse thereto, of spring means within said standard and yieldably urging said supported member in one direction with respect to said supporting member, and manually controlled adjusting means for operating said supported member in the opposite direction with respect to said supporting member.

1,752,952. DISPLAY DEVICE. RUDOLPH JELINEK, Chicago, Ill. Filed Oct. 4, 1928. Serial No. 310,282. 2 Claims. (Cl. 40—78.)



1. A device of the character described, comprising a casing, a plurality of compartments in said casing, a package connecting said compartments, one compartment containing a stack of pictures, means for permitting access to the end picture for manual removal of said end picture through said passage to the other compartment, and means for holding a picture in said passage in display position, said compartments holding the pictures in identical stack formation but in inverse order.

1,752,953. METHOD OF MANUFACTURING SPECTACLE FRAMES FROM TORTOISE-SHELL AND SIMILAR VALUABLE MATERIAL. ERNST KÄHNE, Rathenow, Germany, assignor to the Firm Theodor Kähne & Söhne, Rathenow, Germany. Filed Apr. 5, 1929, Serial No. 352,881, and in Germany Nov. 18, 1927. 3 Claims. (Cl. 18—51.)

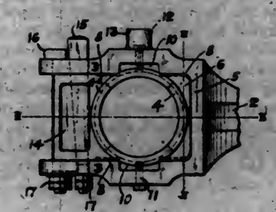
1. The herein described method of manufacturing spectacle frames, which consists in cutting an elongated blank

from a plate comprising a bridge portion and the rim portions disposed in a plane, bending the rim portions into



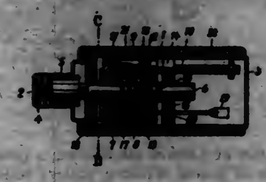
circular form and uniting the ends thereof at a point spaced from the bridge portion, and bending the bridge portion into the form of the bridge.

1,752,954. LOCOMOTIVE CONNECTING ROD. JULIUS KINDERVATER, Brooklyn, N. Y. Filed Feb. 26, 1926. Serial No. 90,999. 2 Claims. (Cl. 287—93.)



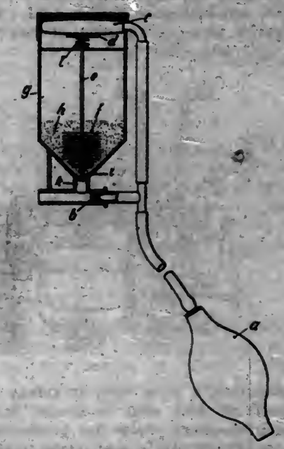
1. A locomotive connecting rod having a pair of spaced longitudinally extending arms at one end thereof provided with oppositely disposed transverse channels; a sectional bearing block comprising side sections disposed in said channels, an outer section, and an inner section, said inner section supported on said rod; means for securing said side sections in fixed relation to each other; means for securing said outer section in fixed relation to said side sections; and a floating sectional bushing in the bearing block, comprising means for preventing axial movement thereof relative to said bearing block.

1,752,955. CARTRIDGE CUT-OUT. THEO LANG, Munich, Germany, assignor to the Firm Hans Trinkl Uhren- und Apparatefabrik G. m. b. H., Augsburg, Bavaria, Germany. Filed Aug. 7, 1925, Serial No. 48,828, and in Germany Aug. 11, 1924. 11 Claims. (Cl. 200—116.)



1. A cartridge having contacts at opposite ends thereof and a cut-out therein including a spring actuated contact bolt, a spring actuated locking hook for securing said bolt in contact position, a block of insulating material in which said contact bolt is guided, and a heating wire wound around said block of insulating material and controlling said locking hook.

1,752,956. APPARATUS FOR SPRAYING PULVERULENT MATERIAL. RUDOLF LEX, Cologne, Germany, assignor of one-half to Karl Zeyen, Cologne, Germany. Filed May 19, 1928, Serial No. 279,043, and in Germany Apr. 21, 1927. 7 Claims. (Cl. 221—61.)



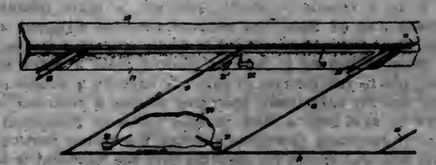
1. A sprayer, comprising a container having an outlet port, a movable plunger within said container and having means normally closing said port, air supply means communicating with said outlet port, means operated by said air supply means for moving said plunger thereby to uncover said port, and means for restoring the plunger to port-closing position.

1,752,957. ELECTRICAL CONNECTION. IRA E. MCCABE, Chicago, Ill. Filed Jan. 17, 1929. Serial No. 333,035. 4 Claims. (Cl. 173—259.)



1. An electrical connection for lead wires comprising a post provided at one end with an upstanding flange having a portion of the flange cut away and having a slot formed in the flange adapted to receive a terminal lug, and a binding screw adapted to secure a terminal lug, when so inserted, to the post.

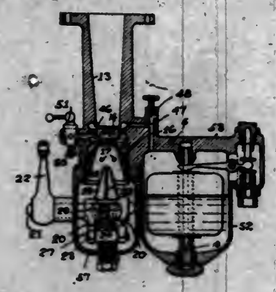
1,752,958. RAILROAD SYSTEM FOR LEVEE CONSTRUCTING. ROBERT H. MCWILLIAMS, Memphis, Tenn. Filed July 11, 1928. Serial No. 291,849. 14 Claims. (Cl. 104—26.)



1. The combination in a railroad system for levee construction, of a track extending along the levee adjacent

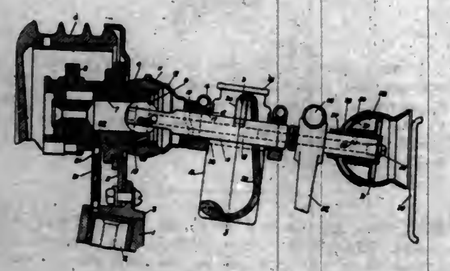
the top of the same, an approximately parallel track adjacent the levee, a track connecting the first and second tracks, power means in connection with said connecting track for elevating a train, a fourth track adjacent the third track also connecting the first and second tracks, and means in connection with said fourth track for keeping a train under control while being lowered along the same.

1,752,959. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. FRANCIS MONIER, Neuilly-sur-Seine, France. Original application filed Oct. 31, 1922, Serial No. 598,084, and in France Nov. 5, 1921. Divided and this application filed Oct. 15, 1924. Serial No. 743,649. 2 Claims. (Cl. 261—72.)



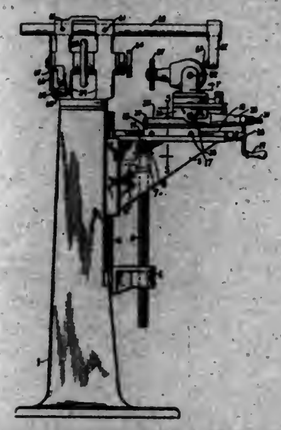
1. In combination, a carburetor, an intake pipe, a fuel chamber associated with said carburetor and normally closed to the atmosphere, means for producing points of greater and less depression in said intake pipe, means for conducting fuel from said chamber to the point of greater depression of said intake pipe, means forming a communicating passage leading from the space above the liquid level in said chamber to a point of less depression in said intake pipe, correcting devices for admitting a small quantity of outside air into said intake pipe between said points of depression for varying the depression therein, and means for adjusting the capacity of said correcting devices.

1,752,960. MAGAZINE LUBRICATING MEANS FOR VEHICLE PARTS. CORNELIUS T. MYERS, Avenel, N. J. Filed May 9, 1924. Serial No. 711,962. 9 Claims. (Cl. 184—7.)



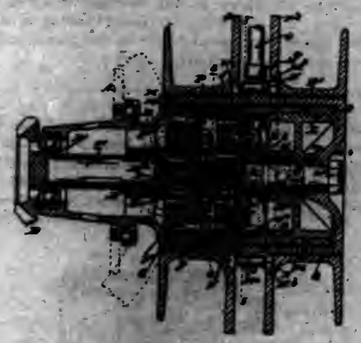
9. In a vehicle, a wheel pivot pin, a brake operating means and at least one support therefor adjacent said pin, the combination with said brake operating means, of a member having a passage leading from a point near said pin to the interior of said one support, a hollow control rod for said brake operating means, a reservoir carried by said rod, a wick in said reservoir positioned to convey lubricant therefrom through the hollow portion of said rod, and means for insuring that the lubricant is conveyed to the brake operating means and to the passageway of said member leading to the point adjacent said pin.

1,752,961. UNIVERSAL GRINDER. EDD C. OLIVER, Adrian, Mich. Filed Apr. 7, 1927. Serial No. 181,722. 6 Claims. (Cl. 51—166.)



1. In apparatus of the character described, a standard, a table vertically adjustable on the side of the standard, a head secured to the standard and having a part extending over the table adapted to hold the work to be ground, a swivel base movable horizontally on the table parallel to the longitudinal axis of the work to be ground, a table movable horizontally on the swivel base, a second swivel base movable in a horizontal plane at a right angle to the movement of the horizontally movable table, a U shaped bracket mounted in vertical position on the second swivel base, an electric motor pivotally mounted in the said bracket to swing on a horizontal axis and provided with an extending shaft, a grinding wheel secured to the said shaft, manually operable means for turning the work while being ground, an index plate adapted to be turned with the work and provided with a series of apertures arranged in a circle about the center thereof, and a spring pressed dog adapted to engage in the said apertures to limit rotation of the work.

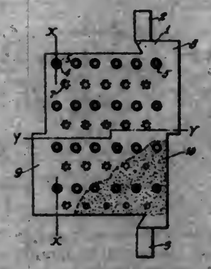
1,752,962. WINCH ATTACHMENT FOR TRACTORS. RALPH B. OTWELL, Detroit, Mich., assignor to Detroit Harvestor Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 2, 1927. Serial No. 230,508. 6 Claims. (Cl. 254—166.)



1. In a pulley and clutch mechanism, a rotatable driving sleeve, a pair of spaced winding pulleys slidably mounted on the sleeve, a flange extending outwardly from the sleeve for disposition between the pulleys, a plurality of laterally

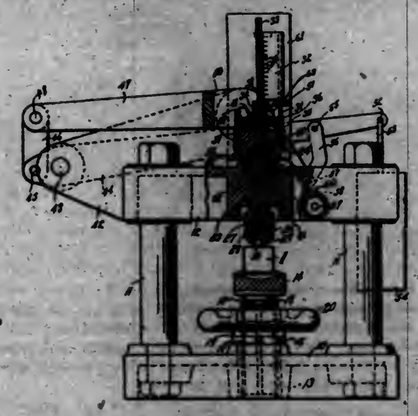
extending driving pins projecting in opposite directions from the sides of said flange, the opposed faces of the pulleys having spaced arcuate shaped grooves arranged circumferentially for receiving the respective pins, a shoulder at one end of each groove against which the respective pin engages, and means for manually shifting the pulleys alternately into engagement with the lateral pins to selectively rotate the pulleys simultaneously with the sleeve.

1,752,963. GRID FOR CHEMICAL STORAGE BATTERIES. PARISINO PETTINELLI, Savona, Italy. Filed Apr. 30, 1928. Serial No. 274,152. 4 Claims. (Cl. 136—51.)



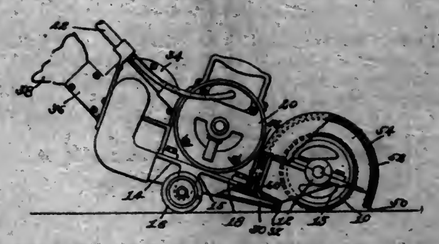
1. As a new article of manufacture, a storage battery grid embodying a sheet metal plate both faces of which are coated with active material, said plate being provided with integral staggered perforated bosses positioned alternately on opposite sides of the plate and extending through said coating to form keys whereby the coating is retained on said plate, said plate being bent intermediate its ends to cause each end portion of the plate to overlie the other end portion thereof with the bosses which extend from the inner face of each overlying portion bearing against the corresponding face of the other overlying portion to accurately space said portions apart.

1,752,964. MEASURING DEVICE. MAURICE N. PRANGE, Detroit, Mich., assignor to Jesse B. Kincaid, Detroit, Mich. Filed Sept. 28, 1925. Serial No. 59,182. 7 Claims. (Cl. 265—12.)



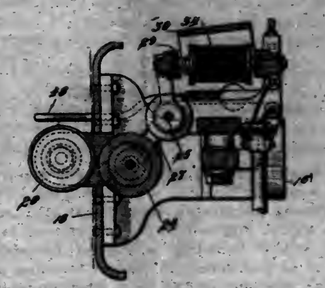
1. In a measuring device, a supporting table and a work support located beneath said table, a work-engaging means including an element slidably mounted in said table, a second element sleeved upon the lower end of the element aforesaid and capable of limiting movement relative thereto upon engagement with the workpiece, indicating mechanism carried by the first mentioned element, and a rod slidably mounted in said first mentioned element, and displaceable by said second element for actuating said indicating mechanism.

1,752,965. FLOOR-FINISHING MACHINE. ALEXANDER ROBERTSON, Atlantic, Mass. Filed June 7, 1928. Serial No. 283,615. 4 Claims. (Cl. 51—176.)



1. A floor finishing machine having, in combination, a frame, a floor finishing member rotatably mounted upon the frame, motor driven means for rotating said member about its own axis, and a suction device mounted upon the frame and provided with suction nozzles disposed immediately in front and in the rear of said floor finishing member and adjacent the floor.

1,752,966. CLOTH GUIDING AND STRETCHING DEVICE. ETHELBERT A. RUSDEN, Nayatt, R. I., assignor to The Textile-Finishing Machinery Company, Providence, R. I., a Corporation of Rhode Island. Filed May 6, 1929. Serial No. 360,714. 15 Claims. (Cl. 26—66.)

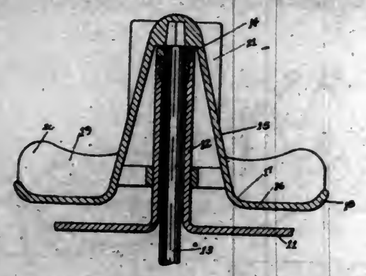


2. In a web stretching machine, a pair of opposed guide roll units, each unit comprising a pair of nip rolls arranged to engage the margins of the material on opposite surfaces thereof, said rolls being mounted to be relatively moved to and from web nipping position, electromagnetic means for relatively moving said rolls to control nipping position, a source of relatively high voltage alternating current, means converting said current into a low voltage direct current, means connecting said electromagnetic means in the direct current circuit, a feeler member positioned to be engaged by the edge of the cloth, and switch means in said electromagnetic circuit responsive to the movement of said feeler for controlling the energizing or deenergizing of said electromagnetic means.

1,752,967. WASHING-MACHINE AGITATOR. THEODORE SIMMONS, Mount Vernon, N. Y., assignor to Altorfer Brothers Company, East Peoria, Ill., a Corporation of Illinois. Filed May 27, 1926. Serial No. 111,983. 5 Claims. (Cl. 259—101.)

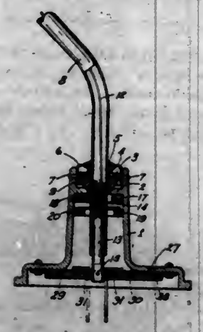
1. In a washing machine the combination with a container of an agitator supported within said container and having a conical wall, a bottom portion and an out-

wardly curved connection therebetween, ribs extending radially along said bottom, ribs extending vertically along



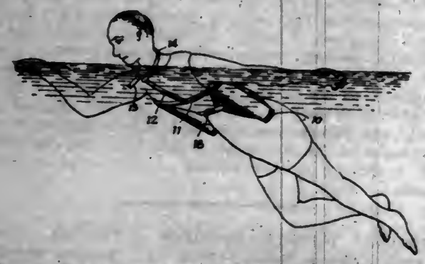
said wall and spaced vertically from said radial ribs, the width of said vertical ribs decreasing from the top thereof downwardly.

1,752,968. LOCK. ANTHONY R. SMITH, Elyria, Ohio, assignor to Steel and Tubes, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 28, 1928. Serial No. 265,325. 16 Claims. (Cl. 70—127.)



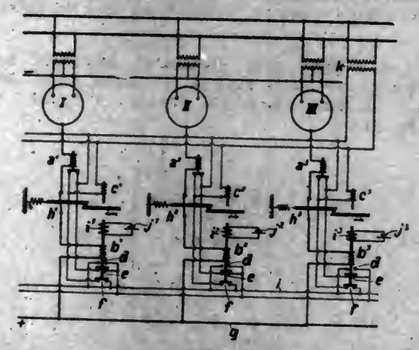
1. Automobile gear shifting apparatus comprising gear shifting means, a housing, a gear shifting lever pivoted in the housing for pivotal movement at all times, and an electrical switch disposed within and secured to the housing, the switch including a contact breaking member adapted to be maintained in contact breaking position in all pivotal positions of the lever when suitably engaged by said lever.

1,752,969. SWIMMER'S BUOY. WILSON R. DENBO, Jackson, Mich. Filed July 12, 1928. Serial No. 292,200. 2 Claims. (Cl. 9—21.)



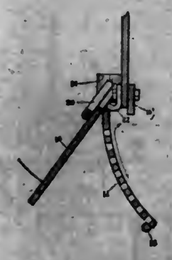
2. A swimmer's buoy comprising spaced apart wings, air tubes secured to the wings, an adjusting strap connecting the wings at the rear and an adjusting strap connecting the wings at the front of the buoy for definitely positioning the tubes beneath the arm pits and in longitudinal alignment of the body of the wearer.

1,752,970. ELECTRICAL PROTECTIVE APPARATUS. WERNER WALTY, Ennetbaden, Switzerland, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Feb. 12, 1926, Serial No. 87,853, and in Germany Feb. 16, 1925. 6 Claims. (Cl. 175—294.)



1. In combination, an electric supply line, a plurality of current sources connected in parallel to said circuit, a circuit breaker for each of said sources for disconnecting the same from said line, overload relay means associated with each circuit breaker for tripping the same in response to excess current flow from the respective source to said line, and a reverse current relay means associated with each of said circuit breakers for preventing tripping of the circuit breakers associated with the sources to which no reverse current flow takes place, said relay means being so arranged that in absence of reverse current flow through any one of said circuit breakers, overload in any of said circuit breakers will cause the same to be tripped.

1,752,971. FEED GRINDER. CHARLES D. AMMON and ELMER W. WILCOX, Lincoln, Nebr.; said Wilcox assignor to said Ammon. Filed Jan. 29, 1929. Serial No. 335,918. 6 Claims. (Cl. 83—11.)

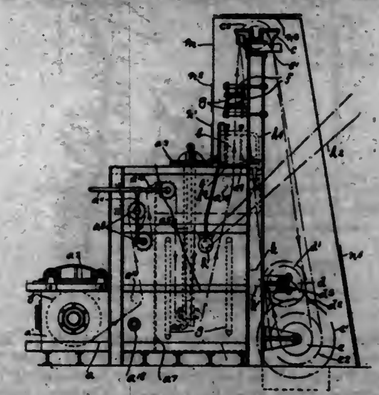


1. A grinder including a comminutor and a screen within a casing, said casing being provided with an opening for the insertion and withdrawal of said screen, and a hinged closure for the opening of said casing, said closure being adapted to exert a leverage action on said screen during the closing movement thereof.

1,752,972. IMPREGNATING PAPER FOR INSULATION OF ELECTRIC CABLES AND APPARATUS THEREFOR. CHARLES JAMES BEAVER, Bowdon, England, assignor to W. T. Glover and Company Limited, Manchester, England. Filed Mar. 16, 1929, Serial No. 347,700, and in Great Britain Mar. 7, 1928. 1 Claim. (Cl. 91—46.)

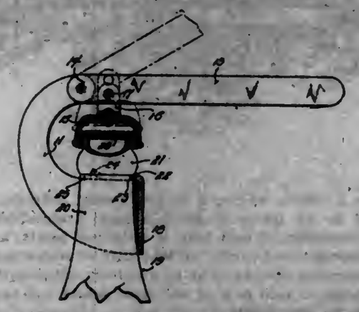
Apparatus for the purpose of impregnating a long strip of fibrous material with electrically insulated material,

comprising a tank adapted to contain the impregnating material in a liquid form and to be hermetically sealed, means for producing and maintaining a vacuum in such tank, a slot being formed in the exit end of such a tank adapted for passing a strip of material out of the tank, a supplemental tank disposed above said first mentioned tank and communicating therewith through said slot and



adapted to contain a quantity of the insulating material, a pump adapted to pump liquid from the main tank into the supplemental tank, an overflow from the supplemental tank discharging through an adjustable valve into the main tank and means for drawing the paper from a drum through the said liquid and out of the main tank via the slot and supplemental tank.

1,752,973. BOTTLE CAPPER. SELWYN R. BLACKSTONE, Milwaukee, Wis., assignor, by mesne assignments, to Blackstone Inventions, Inc. Filed Feb. 14, 1929. Serial No. 339,907. 10 Claims. (Cl. 226—84.)



8. In a bottle capper the combination of a bottle neck receiver, comprising a piece of sheet metal bent intermediate its ends to form a saddle for embracing the bottle neck, an inturned flange at the top of said saddle forming a bottle neck seat, the bottom of said saddle being arranged for contact with the bottle, a pair of spaced arms extending upwardly from said saddle, a capping die, and a member rockably connected with said arms and die for effecting a capping pressure.

1,752,974. CABLE. CHARLES R. BOGGS, Waban, Mass., assignor to Simplex Wire and Cable Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 27, 1928. Serial No. 328,741. 5 Claims. (Cl. 173—267.)



2. A cable which comprises an insulated conductor, a non-metallic armor tape wound helically about the conductor with the convolutions thereof overlapping, the tape having a crown extending lengthwise along one edge, the crowned portion of each convolution overlying a portion of the adjacent convolution.

1,752,975. FORCE-FEED LUBRICATING DEVICE. IRVING COWLES, Chicago, Ill., assignor to Union Bank of Chicago, trustee, Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1927. Serial No. 221,198. 5 Claims. (Cl. 184—7.)



1. A lubricant measuring device of the type defined comprising a casing equipped with a reciprocable spring-held fluid pressure responsive valve element adapted to shut off flow through said casing following discharge of a substantially measured volume of lubricant therefrom, a pipe fitting connecting said casing with lubricant supply piping and a threaded sleeve in said fitting adjustable axially of said casing and affording a stop against which said valve element is normally held by said spring, said adjustable member determining the operative stroke of said valve-element.

1,752,976. FLEXIBLE CONDUIT ASSEMBLY AND METHOD OF MAKING SAME. IRVING COWLES, Detroit, Mich., assignor to Union Bank of Chicago, trustee, Chicago, Ill., a Corporation of Illinois. Filed Jan. 30, 1929. Serial No. 336,072. 3 Claims. (Cl. 285—84.)



1. A flexible conduit comprising a flexible hose portion and a metallic coupling including means lying within the bore of the hose maintaining the latter in substantially normal condition against contracting pressure on the surrounding hose wall, a coupling body and an outer shell element rigid with said body, said shell element and said means defining an annular chamber having an end wall against which the hose end abuts, said annular chamber including a substantially cylindrical mouth portion of a length approximating the thickness of the hose wall and of less diameter than the outer diameter of the hose and

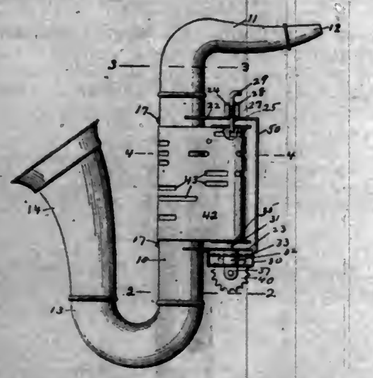
said chamber including an inner tapered portion terminating at said end wall and of larger diameter than said mouth portion.

1,752,977. BOXING GLOVE. FRANK DIETERLE, Utica, N. Y., assignor to Ken Wel Sporting Goods Co., Inc., Utica, N. Y., a Corporation of New York. Filed Nov. 26, 1929. Serial No. 409,925. 7 Claims. (Cl. 2—18.)



1. A boxing glove comprising an unobstructed palm portion, an end portion secured thereto and a finger grip disposed within the interior of the glove and being secured therein at a point at approximately the junction of the palm portion and the end portion.

1,752,978. TOY. HENRY O. DROTNING, New York, N. Y. Filed Apr. 12, 1929. Serial No. 354,560. 11 Claims. (Cl. 84—93.)



1. In a toy, a casing shaped like a saxaphone and having a straight portion in which is a series of aligned holes, a series of cells within the casing having openings registering with the respective holes, reeds in the cells, means for movably supporting a perforated sheet on the casing adjacent the holes, and means operable in one position for moving the sheet to cause the perforations to register with selected holes to allow wind in the casing to vibrate the reeds appurtenant with selected holes and movable in another position for rewinding the sheet.

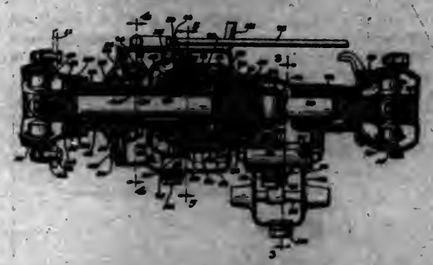
1,752,979. RETURN APPARATUS. WILLIAM EHRHART, Lancaster, Pa. Filed June 8, 1928. Serial No. 283,821. 5 Claims. (Cl. 107—6.)

1. Apparatus of the character stated comprising feeding mechanism, an endless conveyor travelling in one direction to receive material fed, a second conveyor travelling in an opposite direction to receive un-used material from the first mentioned conveyor, an endless chain carrying a plurality of buckets for conveying un-used ma-



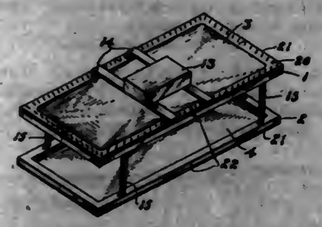
terial from the last mentioned conveyor back to said feeding mechanism, and means operatively connected between said chain and buckets for always maintaining the open ends thereof in a direction facing said feeding mechanism.

1,752,980. AUXILIARY TRANSMISSION. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Apr. 24, 1929. Serial No. 357,647. 7 Claims. (Cl. 74—84.)



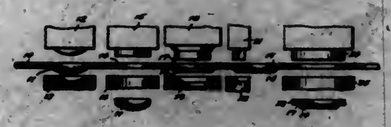
1. In a vehicle having a pair of spaced universal joints secured to its frame member, a main transmission disposed forwardly of said pair of universal joints, a torque tube disposed rearwardly of said pair of universal joints and supported thereby, and an auxiliary transmission disposed between said pair of universal joints and supported entirely by said joints.

1,752,981. SOUND REPRODUCER. EDWARD FREUND, Long Beach, N. Y. Filed Apr. 12, 1929. Serial No. 354,537. 13 Claims. (Cl. 181—31.)



1. A sound reproducer having in combination, a pair of cone-shaped fabric diaphragms, said diaphragms being joined together at the apexes of the cones, two frames between which said cones are held taut, and struts between said frames for securing same in spaced relation.

1,752,982. METHOD OF PRODUCING SPRING RINGS. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Original application filed July 6, 1926, Serial No. 120,672. Divided and this application filed Dec. 27, 1926. Serial No. 157,258. 6 Claims. (Cl. 10—86.)



4. The method of manufacturing split spring rings from flat sheet metal, consisting in forming the ring opening in the sheet, and imparting a non-flat cross-sectional shape to an annular portion of the ring before blanking from the sheet, transversely cutting the ring area to produce a split before blanking from the sheet, and blanking the ring in annularly spaced relation to said non-flat portion.

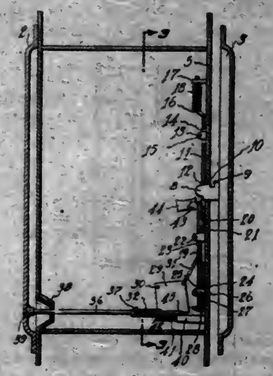
1,752,983. CASTER. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 5, 1927. Serial No. 237,660. 10 Claims. (Cl. 16—39.)



1. In a support, a floor engaging element including a pintle, pintle receiving means adapted to be secured to a furniture leg or the like, a split spring ring adapted to be expanded and contracted, ring supporting means carried by said pintle receiving means having an annular pocket opening outwardly, and means carried by said ring and interlockingly engaged in said pocket and whereby said ring is rotatably retained with respect to said supporting means, said ring being adapted to retain said pintle with respect to said pintle receiving means.

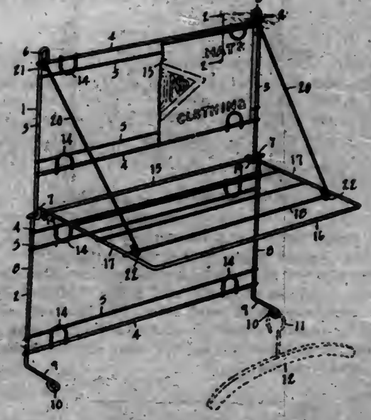
1,752,984. PARCEL RECEIVER. ROBERT F. W. HESS, Detroit, Mich. Filed June 9, 1928. Serial No. 284,210. 7 Claims. (Cl. 232—1.)

1. A parcel receiver comprising a box having doors in opposite walls thereof, a keeper carried by one of said doors, a latch slidably supported adjacent said door and adapted to engage said keeper, a device adapted to lift said latch from said keeper, linkage operable by the other door for operating said device, said linkage including two relatively slidable members, means for locking one of said members to the end of the other, and means for establishing a slip connection between said members,



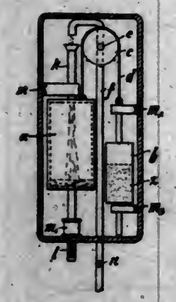
whereby the two members may be caused to move together, or one freely of the other to impart no motion to said device.

1,752,985. DISPLAY RACK. JAMES COOPER HUFFMAN, Battle Creek, Mich. Filed Jan. 7, 1929. Serial No. 330,747. 9 Claims. (Cl. 211—106.)



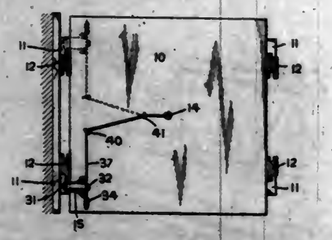
1. In a structure of the class described, the combination of top and bottom frame members each comprising end members and spaced pairs of longitudinal bars, the outer of said pairs of longitudinal bars being disposed in spaced relation to the ends of the end members, the upper ends of the end members of the top frame being conformed to provide suspending loops, the lower ends of said top frame end members terminating in forwardly turned eyes, a supporting rod secured to the upper ends of the end members of the bottom frame and engaged with the eyes on the lower ends of the end members of the upper frame, U-shaped panel holders secured in opposed pairs to the outer of the pairs of longitudinal bars with their bight ends in overlapping relation to the inner longitudinal bars, a shelf comprising end members and longitudinal bars secured thereto, the rear ends of said shelf end members terminating in eyes engaged with said connecting rod, and struts having eyes at their inner ends engaging one of the longitudinal bars of the upper frame and hooks at their outer ends engageable with one of the longitudinal bars of the shelf.

1,752,986. AUTOMATIC CISTERN FOR LIQUIDS. OTTO GRABTZER, Zurich-Zollikon, Switzerland. Filed Jan. 19, 1929, Serial No. 333,734, and in Switzerland Jan. 21, 1928. 4 Claims. (Cl. 219—38.)



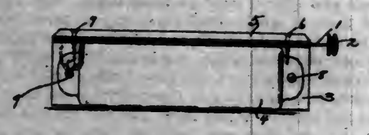
1. An automatic cistern for liquids, comprising a movable liquid container, a counterweight connected therewith, a liquid supply pipe, an electrical heater arranged between said container and said pipe, a valve associated with said pipe for controlling the flow of liquid therethrough, and means operating to close or open said valve on movement of said container due to the filling or emptying thereof.

1,752,987. SAFETY CATCH. ISAK HANSEN, New Rochelle, N. Y. Filed Feb. 12, 1929. Serial No. 339,321. 3 Claims. (Cl. 187—86.)



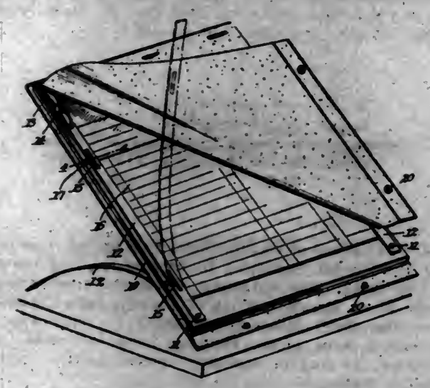
2. A safety catch for a lift comprising a housing, a bolt extending therethrough, said bolt having a head and a shoulder adjacent said head, a grip member carried on said shoulder, a second shoulder and a lever carried thereon, means associated with said lever for holding said grip member in operative position and additional means associated with said lever for moving said grip member to an inoperative position.

1,752,988. HARMONICA. WILLIAM J. HAUSSLER, Brooklyn, N. Y. Filed Aug. 27, 1927. Serial No. 215,826. 3 Claims. (Cl. 84—377.)



1. A harmonica having a body portion having a recess and provided with chambers opening into the front wall thereof, reeds associated with the said chambers, a metal plate having perforations corresponding to the openings of the said chambers and secured to the open face of the said body, said plate having an elongated slot at one end thereof, a slide mounted upon the said metal plate, guide means holding the said slide upon the front face of the body portion, said slide having an opening therein which registers with the said elongated slot, and a spring located in said recess in the said body, said spring having a portion thereof extending through said elongated slot and engaging the said slide, said slide having openings adapted to register with said chambers.

1,752,989. WRITING BOARD. CHARLES C. HENNESSY, Indianapolis, Ind. Filed June 20, 1927. Serial No. 200,143. 7 Claims. (Cl. 281—44.)



1. The combination of a substantially flat elongated body, rivets extending through the body in spaced relation adjacent one extremity of the same, a pair of curved flexible straps held in place by each rivet one strap being located on each side of the body, and fastening elements located in spaced relation at the other extremity of the body for securing the free ends of the flexible straps against the body, substantially as set forth.

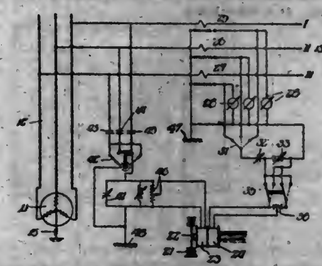
1,752,990. WEATHER STRIPPING. GEORGE E. JEANDHEUR, Great Neck, N. Y. Filed Jan. 4, 1929. Serial No. 330,203. 15 Claims. (Cl. 20—69.)



1. A weather stripping comprising an elongated elastic body portion, means disposed longitudinally within the same serving to neutralize longitudinally the elastic qualities of said body portion, and means carried by and on said first-named means for preventing longitudinal movement of said first-named means relative to said body portion, substantially as specified.

1,752,991. APPARATUS FOR DETECTING GROUNDS. JAKOB KOPELIOWITSCH, Baden, and JOSEF STOECKLIN, Zurich, Switzerland, assignors to A. G. Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Dec. 8, 1926, Serial No. 152,881, and in Germany Dec. 11, 1925. 2 Claims. (Cl. 175—183.)

1. The combination with an alternating-current transmission line having two line phases operating at relatively low frequencies and having a grounding choke coil connected to a neutral point between said line phases, of a device for ascertaining a ground on one of said lines; said device comprising means for deriving a harmonic current component of a particular frequency corresponding to the intensity of the harmonic currents flowing in the faulty line phase, and means for deriving a harmonic current component of the same frequency corresponding to the harmonic voltages between said faulty line phase and the other line phase, said means being arranged to cause the phase angle between said harmonic current



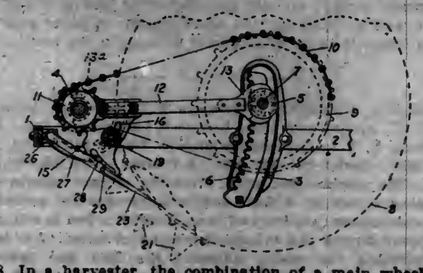
components to be different than 90°, and means for actuating said device in response to the additive or subtractive effect of said harmonic current components.

1,752,992. DISK WHEEL. HARRY W. KRANZ, Cleveland, Ohio, assignor, by mesne assignments, to The Cleveland Welding Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 3, 1924. Serial No. 741,829. 3 Claims. (Cl. 301—11.)



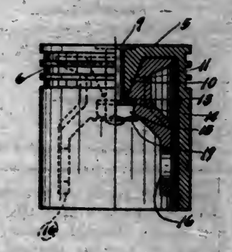
1. The combination with a disk having a channeled periphery and provided with an outwardly projecting shoulder at one point at the outer edge of said channeled periphery, of a demountable tire carrying rim having a relatively deep central inwardly projecting portion adapted to seat in the channel of the periphery and spaced clamps connected to the disk and adapted to engage the inwardly projecting portion of the rim and tension the same upon the wheel body.

1,752,993. SCRAPER FOR HARVESTER MAIN WHEELS. ROBERT C. LIVESAY, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 25, 1927. Serial No. 178,288. 8 Claims. (Cl. 280—158.)



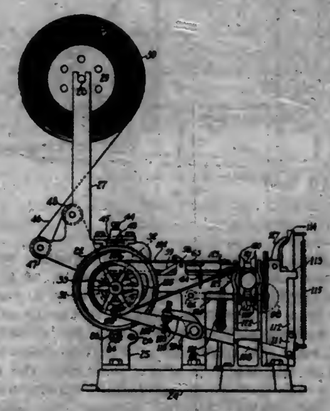
8. In a harvester, the combination of a main wheel, a frame supported thereon and adapted to be raised or lowered, means operable to raise or lower the frame, a scraper supported on the frame and means actuable by raising or lowering the frame to hold said scraper against the tread surface of the wheel, with substantially unvarying pressure irrespective of the raising or lowering of the frame.

1,752,994. PISTON. HOWARD MALLOY, Alma, Mich. Filed May 10, 1928. Serial No. 276,604. 1 Claim. (Cl. 74—108.)



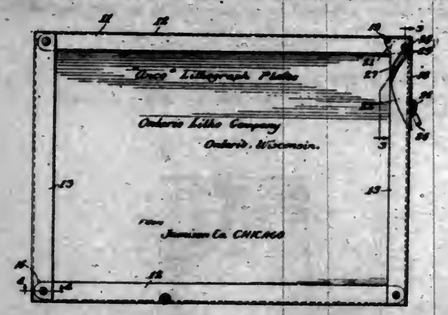
A piston comprising a core formed with a centrally disposed depression, and spaced apart legs having bearings formed therein, a self centering shell mounted on said core, and formed with a centrally disposed conical shaped shoulder adapted to snugly fit in said depression, a bolt for securing the shell on the core, the lower end of said core being counterbored to accommodate a lock washer and nut, and a plate detachably secured to the core for preventing displacement of said nut.

1,752,995. CYLINDER-FORMING MACHINE. WILSON R. MYERS and BERNHARD O. OPITZ, Portland, Oreg., assignors, by mesne assignments, to Ice Cream Smack Corporation, a Corporation of Delaware. Filed Mar. 1, 1927. Serial No. 171,702. 14 Claims. (Cl. 92—36.)



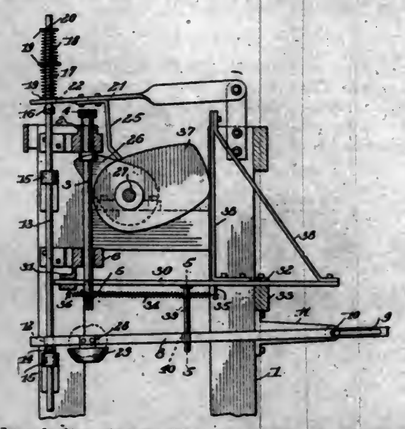
1. A machine for making paper cylinders having, in combination, a pair of cutoff rolls for feeding a web of paper and partially cutting same into required lengths; a rotatable mandrel around which said partially severed sheet can be wound; presser rolls adapted to bear against said mandrel while paper is being wound thereon; web means for feeding said paper toward said mandrel and adapted to release said paper as soon as it is held by said presser wheels; a crimping arm for turning an over-hanging edge of paper inwardly against said mandrel; a recessed head in one end of said mandrel beyond which said paper projects; a bottom forming head for turning said inturned edge against said recessed head; and means for removing the formed cylinder from said mandrel.

1,752,996. PACKAGE. ERNEST C. PAGEL, Chicago, Ill., assignor, by mesne assignments, to Signode Steel Strapping Company, a Corporation of Delaware. Filed June 22, 1925. Serial No. 38,657. 7 Claims. (Cl. 206—60.)



1. A shipping frame for goods of the class described, comprising four channel members pivotally connected together with the end of one channel member engaging between the side flanges of another channel member, the ends of the inner channel member or members being rounded whereby said frame can be knocked down for bringing all of said frame members into substantial parallelism, and means for fastening said frame over the goods.

1,752,997. FRUIT-PARING MACHINE. JOHN W. PRABB, Rochester, N. Y. Filed Feb. 20, 1928. Serial No. 255,510. 4 Claims. (Cl. 146—51.)

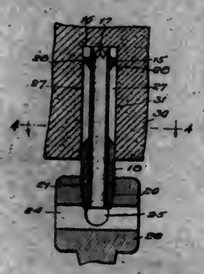


1. In a fruit paring machine, the combination with relatively rotary holding and paring elements, of a feeding device embodying a fruit support having a rectilinear movement from a receiving position to one in alinement with the holding element and means for actuating the support toward the holder in a relatively transverse direction while the holder is alined therewith, the bud and stem axis of the fruit being maintained substantially parallel to that of the holding element throughout the operation.

1,752,998. METHOD OF REPLACING HALOGEN GROUPS IN ORGANIC COMPOUNDS BY AMINO GROUPS. KARL H. T. PFISTER, Tacony, Pa., assignor to Rohm & Haas Company, a Corporation of Delaware. Filed Dec. 23, 1925. Serial No. 77,268. 5 Claims. (Cl. 260—130.5.)

1. The process which comprises the steps of fusing an aromatic organic compound containing at least one halogen atom and at least one nitro group not in the meta position to such halogen atom, and causing the fused compound to react with a substance of the urea type.

1,752,999. ANCHORING DEVICE. JOHN H. PHILLIPS, Chicago, Ill. Filed May 29, 1925. Serial No. 33,774. 2 Claims. (Cl. 85—2.4.)

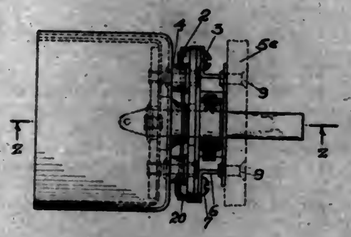


2. An anchor device comprising a tubular shell having drill teeth formed at one end thereof and having external pipe threads cut in the other end thereof, the initial portion of said threaded end being tapered to frictionally engage a chuck and the toothed end being weakened to permit expansion thereof.

1,753,000. WOOD PRESERVATION. HAROLD W. WALKER, Edgewood Arsenal, Md. Filed Oct. 26, 1925. Serial No. 65,038. 1 Claim. (Cl. 99—12.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

A process for treating wood comprising impregnating the wood only with arsenic trioxide carried in an aqueous solution of ammonia, withdrawing the excess solution from the wood, heating and drying the impregnated wood and recovering the ammonia evolved.

1,753,001. CONDENSER. MORRIS H. BENNETT, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 7, 1927. Serial No. 203,899. 6 Claims. (Cl. 175—41.5.)

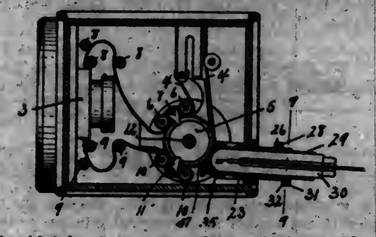


1. In a vernier condenser, a stator comprising a single semi-cylindrical element, a rotor plate within said stator and similarly formed, a frame member on which said stator is mounted, a shaft carrying said rotor, a bearing on said rotor shaft comprising a conical bushing mounted thereon, a spring member on said frame member having a conical seat, and a collar on the shaft on the opposite side of said frame for maintaining said bushing in the seat.

1,753,002. CAMERA. THEODORE WILLARD CASE, Auburn, N. Y., assignor to Case Research Laboratory, Inc., Auburn, N. Y., a Corporation of New York. Filed Aug. 22, 1924. Serial No. 733,560. 8 Claims. (Cl. 88—16.2.)

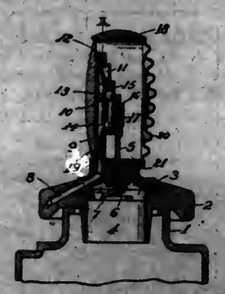
1. The combination with a moving picture camera including a casing, a feed and take-up sprocket mounted for continuous rotation and around which a film is adapted to move during the taking of moving pictures, of a tube penetrating the casing adjacent the feed and take-up sprocket, a lamp within the tube, means for varying the

light rays emanating from said lamp in accordance with sound waves, a jaw holder block mounted on the inner



end of said tube, jaws mounted on said jaw holder block and forming between them a narrow slot for the passage of light rays from said lamp to said film.

1,753,003. RADIATOR CAP. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio. Filed July 5, 1927. Serial No. 203,414. 6 Claims. (Cl. 110—109.)



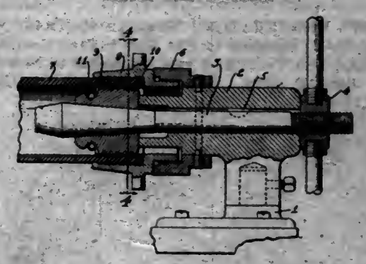
1. In combination with an internal combustion motor, a thermostat actuated by the temperature of the cooling fluid thereof, a valve moved by said thermostat, and a sound responsive device actuable by the passage of atmospheric air and controlled by said valve.

1,753,004. DISPLAY DEVICE. LAWRENCE S. GEER, New York, N. Y., assignor to Gustav H. Frommann, Concord, N. Y. Filed May 7, 1928. Serial No. 275,654. 13 Claims. (Cl. 211—156.)



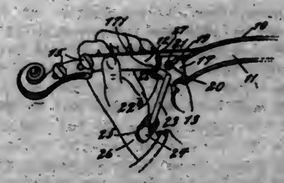
1. A device of the character described comprising a transverse member, a foldable supporting member movably connected at one end to the front of said transverse member to move on a vertical axis, and cooperating means on said transverse member and at the other end of said supporting member for locking said members together in adjusted position, substantially as specified.

1,753,005. METHOD OF UNITING TUBULAR MEMBERS. FRANK R. GRADY, Caldwell, N. J., assignor to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 5, 1926. Serial No. 127,250. 3 Claims. (Cl. 29—88.2.)



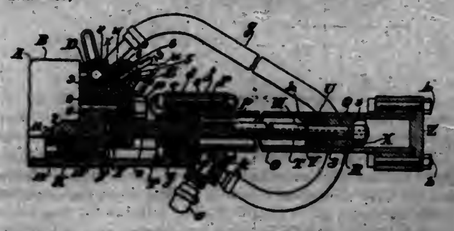
1. The method of uniting tubular members which comprises disposing a portion of one tubular member between a metal ring and a second tubular member having annular recesses, forcing the metal ring laterally against the first mentioned tubular member by pressure applied at spaced intervals whereby the ring becomes corrugated and forces the first mentioned tubular member against the recessed portion of the second tubular member.

1,753,006. WRIST SUPPORT. HENRY HAAF, Mount Vernon, N. Y. Filed Jan. 13, 1928. Serial No. 246,412. 4 Claims. (Cl. 84—328.)



1. A wrist support for a violin having a portion formed for attachment to the neck of a violin, means for attaching said support to the neck of the violin, and a bracket projecting from said support and extending in a direction from the instrument to engage the wrist of the player when the violin and the arm and hand of the player are held in correct positions.

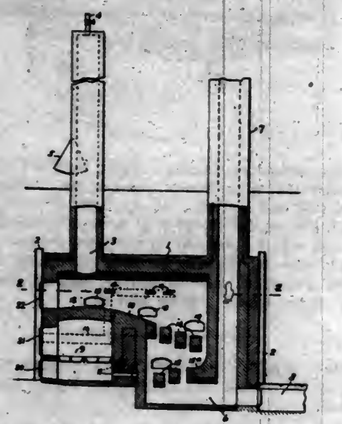
1,753,007. DRILL-FEEDING DEVICE. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 17, 1927. Serial No. 233,856. 8 Claims. (Cl. 121—9.)



1. The combination with a rock drill having a back head and a shell, of a piston rod secured to the back head and having a piston thereon, a feeding cylinder secured to the shell, a supply passage in the piston rod to convey pressure fluid to the rearward end of the feeding cylinder, a fluid supply line in constant communication with the cylinder forwardly of the piston, a throttle valve in the back head controlling the pressure fluid to the drill, means for ad-

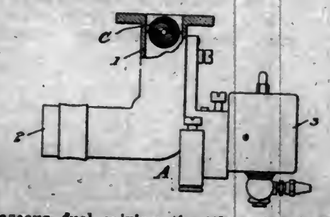
mitting a source of fluid supply to said throttle valve, and a second throttle valve in the back head adapted to selectively communicate said first mentioned throttle valve with the supply passage in the pisten rod or to communicate the said supply passage with the atmosphere.

1,753,008. INCINERATOR. HERBERT HEITMAN, Woodhaven, N. Y., assignor to The Fred'k Page Contracting Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1929. Serial No. 335,427. 5 Claims. (Cl. 110—17.)



1. In an incinerator the combination of an enclosed chamber having through the front portion of its roof a charging inlet arranged to exclude air and having at the lower part of its rear portion a stack flue, a fire box arranged at the front portion of the chamber beneath the inlet, a bridge wall between the flue and fire box, a series of spaced arches spanning the fire box and providing a platform over the fire box for primary heating and combustion and a second series of spaced arches spanning the stack flue and providing a circuitous path over the stack flue for secondary heating and complete combustion, and a duct for the introduction of secondary air into the interior of the chamber above the arches to aid complete combustion.

1,753,009. MIXING THROTTLE VALVE. HARRY W. HESS, Los Angeles, Calif., assignor to Carburetor Control Company, Los Angeles, Calif., a Corporation of California. Filed Feb. 9, 1927. Serial No. 166,958. 2 Claims. (Cl. 48—180.)

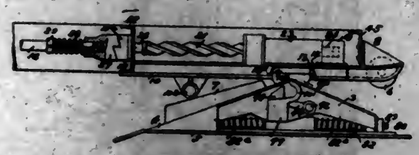


1. A gaseous fuel mixing throttle valve including a spherical member provided with a central plane member, and spirally arranged vanes extending from said central plane member.

1,753,010. MOLDABLE COMPOSITION. ADAM HOCHE, Lynn, Mass., assignor to Litmo Adhesive & Products Company, Lynn, Mass., a Corporation of Massachusetts. Filed Oct. 11 1922. Serial No. 593,881. 11 Claims. (Cl. 106—22.)

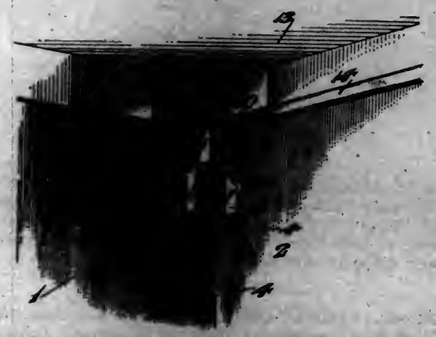
1. A composition moldable under heat and pressure comprising cupra-ammonium, a resinous body and a filler.

1,753,011. TRACTOR TRAILER. CHARLES H. LAND, Detroit, Mich., assignor of one-half to William H. Wilson, Detroit, Mich. Filed Oct. 17, 1928. Serial No. 312,992. 14 Claims. (Cl. 280—33.1.)



13. In a tractor-trailer combination, wherein the trailer is coupled to the tractor in superposed relation to the latter; a fifth wheel adapted to effect the coupling relation, comprising a lower non-rockable skid member, having a permanent upwardly inclined guide member surface of wedge-shape form, attached to the frame of the tractor; an upper fifth wheel member carried by the trailer, tiltable in transit upon the apex of the wedge-shape portion of the lower fifth wheel member of the tractor; and means for coupling the upper and lower fifth wheel members together to effect a coupling relation between the tractor and trailer.

1,753,012. BRACKET FOR CABINETS. ALBERT H. LEVENE, Newark, N. J., assignor to De Luxe Metal Furniture Company, a Corporation of Pennsylvania. Filed July 10, 1926. Serial No. 121,510. 1 Claim. (Cl. 248—19.)



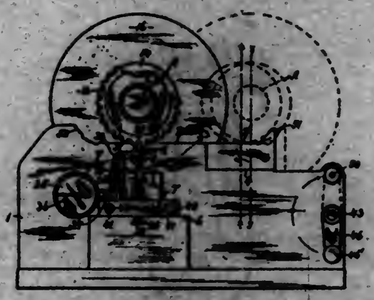
A reversible shelf locking clip comprising a vertical body portion, bottom, oppositely disposed lugs integral with and extending at right angles to said body portion, a hook member integral with said body portion and extending above one of said lugs, an upper lug integral with and extending at right angles to one side of said body portion, said upper lug being oppositely disposed with respect to the bottom lug on that side of said body portion, and an upper, set back, flange integral with and extending at right angles to the top of said body portion.

1,753,013. CONDUCTOR-HOLDING CLIP. ELMER S. LINDMARK, New York, N. Y. Filed Mar. 31, 1928. Serial No. 266,443. 2 Claims. (Cl. 173—251.)



1. A conductor-holding clip comprising a flat blade having a penetration end, a spring tongue having one of its ends secured to said blade near said penetration end, said tongue extending toward the other end of the blade and diverging from the latter, the free end of said tongue being turned toward said blade to provide a seat cooperable with the opposed part of the blade to hold a conductor, and an insulating strip lying against the side of said blade toward said tongue and having one end bent upon itself to receive the conductor, said other end of said blade being clinched around the other end of said insulating strip.

1,753,014. GEAR-TESTING MACHINE. CHARLES H. LOGUE, Syracuse, N. Y., assignor of one-half to Conrad O. Hersam, Philadelphia, Pa. Filed Aug. 22, 1928. Serial No. 301,300. 7 Claims. (Cl. 73—51.)



1. The herein described method of testing the accuracy of gear teeth comprising rolling the gear in mesh with a master tooth and bringing it to rest out of engagement with the master tooth, then moving the gear bodily without rotating it in the direction of rolling motion a distance corresponding to the distance between the centers of adjacent gear teeth on the pitch circle of the gear, and then re-rolling the gear into mesh with the master gear along said pitch circle.

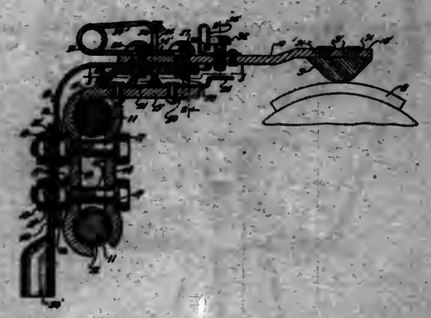
1,753,015. PRECIPITATING SYSTEM. ALEXANDER GRANT MCGREGOR, London, England. Filed May 4, 1928. Serial No. 275,082. 10 Claims. (Cl. 75—18.)



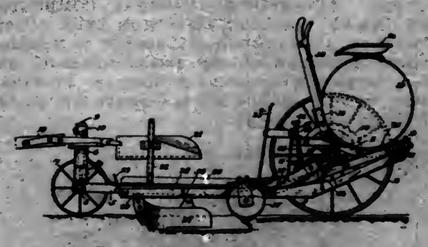
9. A process for the precipitation of metals from liquids by contact with a precipitating body wherein successive batches of precipitating body are disposed in series in graduated age, the liquid is passed first to the oldest batch of precipitating body and thence successively through batches of decreasing age to the newest batch thereof, and as precipitation progresses fresh batches of precipitating body are disposed at one end of the series and old batches cut out from the other whereby each batch is progressively treated with solution of increasing strength.

1,753,016. ELECTRIC SWITCH. EARL F. MEKELBURG, Milwaukee, Wis., assignor to Union Electric Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 11, 1927. Serial No. 167,444. 1 Claim. (Cl. 200—166.)

An electric switch, comprising a supporting means having a pair of contacting portions, a right-angular clamping arm engaging said contacting portions and having an outwardly extending tongue at one end thereof, the outer end portion of said tongue being formed with opposed recesses, a cooperating clamping arm also engaging said contacting portions, a fulcrum strip mounted on said right-angular clamping arm and having a stop portion at the outer end thereof, a lever arm having one end portion pivotally carried between said fulcrum strip and said clamping arm, and provided with downwardly extending guide lugs engaging in said opposed recesses in the outwardly extending tongue to prevent lateral and endwise movement of the lever arm, an upstanding link clamped between said fulcrum strip and said clamping arm, contact mechanism carried by said lever arm, a spring removably interposed between a portion of the link member and the contact mechanism for yieldingly holding the contact mechanism in an inner position, an independent contact lug carried at the outer end of said contact mechanism, a terminal member, conducting means, one end thereof being connected to said contact mechanism, and a common means for bringing the clamping arms into clamping engagement with the supporting means, and for securing the terminal member to one end portion of the conducting means.



1,753,017. TRANSPLANTER. THEODORE H. OPPENHEIM, Coldwater, Ohio, assignor to The New Idea Spreader Company, Coldwater, Ohio, a Corporation of Ohio. Filed May 18, 1928. Serial No. 278,796. 14 Claims. (Cl. 111—62.)



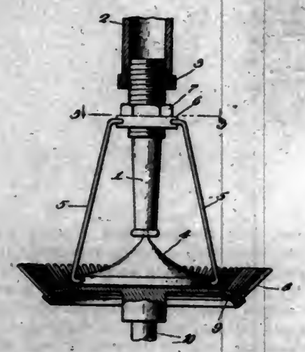
1. In a transplanter, the combination of a main frame comprising a pair of side members, front and rear ground wheels for the main frame, a furrow-opener disposed behind the front wheels and between said side members, a sub-frame connected to the main frame and to which the furrow-opener is secured, devices in front of the rear wheels and behind and spaced from the furrow-opener for pushing the soil around the roots of plants deposited into the furrow, a frame connected at the rear end thereof to the main frame and to the front end of which said devices are secured, and a seat mounted on one of the side members between the front and rear wheels for carrying an operator in a position so he may drop the plants between the side members and deposit them directly into the furrow between said opener and devices.

1,753,018. TREATING VULCANIZED OILS. ALLEN F. OWEN, Jackson Heights, N. Y., assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Oct. 1, 1926. Serial No. 139,019. 7 Claims. (Cl. 134—17.)

2. The method of incorporating factice into an aqueous dispersion of rubber which comprises dispersing the factice in a water miscible liquid and mixing the dispersion of factice with an aqueous dispersion of rubber.

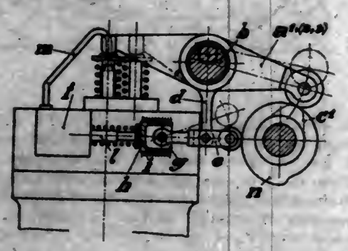
7. As a new product, a latex containing dispersed factice.

1,753,019. MEANS FOR SPRAYING LIQUIDS. HARRY W. PAGE, Wauwatosa, Wis. Filed Oct. 1, 1927. Serial No. 223,477. 4 Claims. (Cl. 299—63.)



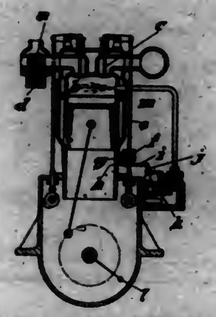
1. In a liquid spraying mechanism, a stationary conical table, means for discharging water upon the same, an annular beater in the form of a frustum of a cone having its long axis coincident with the corresponding axis of the table surrounding the table, means for rotating said beater, and means adjusting the beater and the table relatively to each other in the direction of length of the central axis of the table.

1,753,020. REVERSIBLE INTERNAL-COMBUSTION ENGINE OF THE FUEL-INJECTION TYPE. GUSTAV PIELSTICK, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Oct. 8, 1925, Serial No. 61,246, and in Germany Oct. 20, 1924. 7 Claims. (Cl. 123—41.)



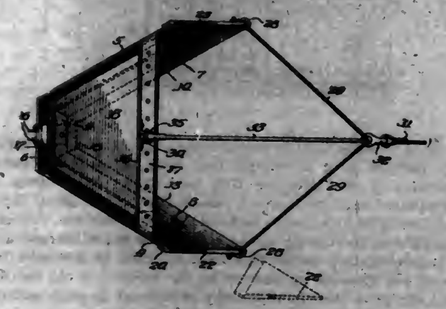
1. In an internal combustion engine of the character described, a cylinder, valve mechanism including inlet and exhaust valves therefor, means for operating said valve mechanism, pumping means having a pump plunger for supplying fuel to the said cylinder and controlling the time of fuel injection, operating means for said fuel-pumping means including forward and reverse cams for driving said pump plunger, and means for simultaneously varying the operative functioning of the valve mechanism and the fuel-pumping means to effect forward or reverse operation of the said engine.

1,753,021. PROCESS AND APPARATUS FOR STARTING INTERNAL-COMBUSTION ENGINES. WILHELM RIEHM, Augsburg, Germany, assignor to the Firm: Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Apr. 11, 1925, Serial No. 22,827, and in Germany Apr. 15, 1924. 8 Claims. (Cl. 123—182.)



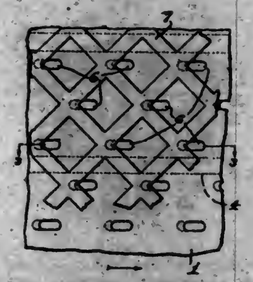
1. The process of starting a high-pressure internal combustion engine of the constant-pressure-cycle type operating on heavy fuel with self ignition which comprises the steps of cranking the engine with cylinder compression relieved and at the same time heating the suction air, and then switching on the usual compression when a suitable speed is attained.

1,753,022. SCRAPER. WILLIAM K. ROBBINS, Chicago, Ill., assignor, by mesne assignments, to Ira J. Wilson, Chicago, Ill. Filed Feb. 21, 1924. Serial No. 694,236. 10 Claims. (Cl. 37—147.)



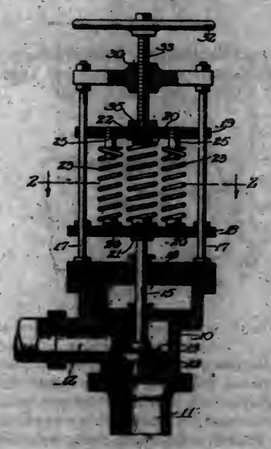
1. The combination, with a scraper body comprising forwardly diverging side walls connected at their rear ends by a transverse rear wall, the bottom of said scraper between said side and rear walls remaining substantially open, of drag means connected with the forward ends of said side walls, a member rigidly attached to said body near the forward end thereof, and a rigid link providing an adjustable thrust connection between said member and said drag means for retaining said scraper in its operative position.

1,753,023. CENTRIFUGAL BASKET. EUGENE ROBERTS, Hastings, N. Y., assignor to The Western States Machine Company, Salt Lake City, Utah, a Corporation of Utah. Filed Apr. 6, 1928. Serial No. 268,064. 3 Claims. (Cl. 210—76.)



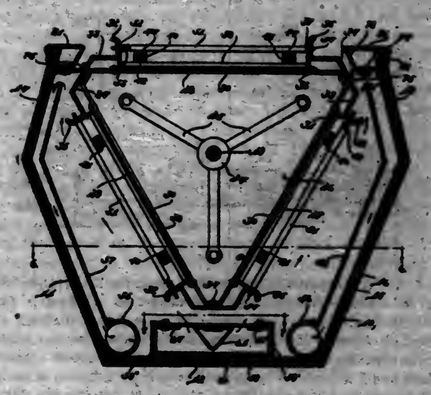
1. A centrifugal basket whose peripheral wall is provided with elongated openings extending in the circumferential direction of the basket, the rear walls of said slots having their inner edges forwardly offset in relation to the outer edges thereof whereby accumulation of the sticky content of the liquid against said wall is prevented.

1,753,024. VARIABLE PRESSURE OR RELIEF VALVE. FREDERICK J. RODS, Chicago, Ill., assignor to Marquette Tool & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1927. Serial No. 186,272. 4 Claims. (Cl. 137—53.)



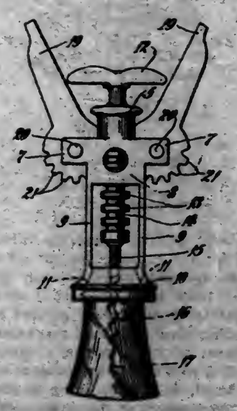
1. A valve, a member connected with the valve and movable therewith, a second member co-operating with the first said member and spaced therefrom, guides upon which said members are movable, a plurality of resilient resistance pressure creating elements independent of each other and disposed between said members, said elements being freely accessible exteriorly of the valve casing and of different stress or strain creating capacity, some of said elements being normally inactive with respect to the valve, a support connected with the said guides, and an adjusting element connected with the support and engaging the second said member for moving it towards the first said member for successively rendering the said elements active with respect to the valve whereby the resistance of the valve may be varied at will.

1,753,025. CURTAIN DRIER AND STRETCHER. CLAUDE L. ROOSEVELT, Detroit, Mich. Filed May 28, 1928. Serial No. 281,010. 3 Claims. (Cl. 34—17.)



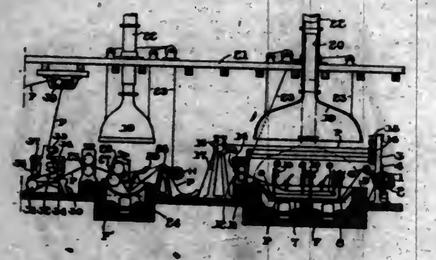
1. In a curtain stretcher and drier: an outer casing; fluid distributing means in said casing at the lower side thereof and communicating, exteriorly thereof, through an opening; outlet conduits in said casing communicating with the interior of said casing, adjacent the upper side thereof; a curtain supporting member rotatably mounted in said casing; and means for sealing said casing at the sides of said supporting member for preventing escape of fluid therefrom.

1,753,026. CORK EXTRACTOR. DOMINICK ROSATI, Chicago, Ill. Filed Oct. 29, 1928. Serial No. 315,646. 2 Claims. (Cl. 65—49.)



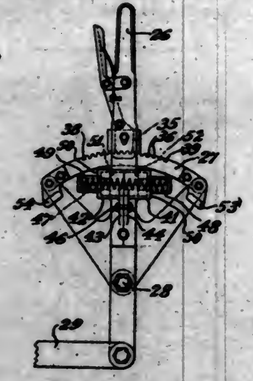
1. A stopper puller comprising a tubular body having an elongated bore at one end and an alining socket at the opposite end that is adapted to engage a bottle neck, an integral rotatable member having means to rotate the same on its upper end and having a stopper entering screw at its lower portion, said member being provided with integral transverse parallel ribs intermediate said means and screw, the ribbed portion of said member having free longitudinal and rotational movement in the bore of said body, and oppositely disposed toothed elements journaled on said body and entering the bore thereof to engage said ribs for withdrawing a stopper.

1,753,027. APPARATUS FOR MAKING ASPHALT ROOFINGS. EIKICHI SAKUMA, Tokyo Fu, Japan. Filed Feb. 24, 1928, Serial No. 256,791, and in Japan Mar. 14, 1927. 4 Claims. (Cl. 91—46.)



3. In combination, an open topped coating tank adapted to contain melted asphalt, means to conduct a fabric web through said tank, means to support said sheet after passing through the tank in position above the hot asphalt, a ventilating hood over the tank and above the supported sheet, and means to raise and lower said hood, said hood being normally spaced from the tank to provide for the admission of drying air.

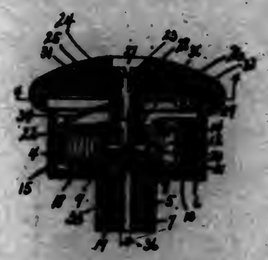
1,753,028. LOCOMOTIVE VALVE GEAR. CHARLES J. SCUDDER, Scranton, Pa. Filed Sept. 23, 1927. Serial No. 221,580. 1 Claim. (Cl. 121—142.)



The combination with a locomotive valve gear including a reverse lever for varying the cut off of the valves, and a quadrant for the reverse lever having notches for latching said lever so as to hold it at desired points of cut off, of yieldable abutments carried by the reverse lever and extending forwardly and rearwardly thereof for resisting movement of the lever in a direction to effect maximum cut off, a stop for each abutment secured to each end of the quadrant, said stops being so located as to be engaged during movements of the lever toward lengthened cut off positions and to yieldingly position the lever at desired normal cut off, said quadrant being blank for positions of cut off longer than the desired normal operating cut off.

1,753,029. CIRCUIT CLOSER. WILLIAM SPARKS and LLOYD ELMER JOHNSON, Jackson, Mich., assignors to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed May 18, 1926. Serial No. 109,908. 5 Claims. (Cl. 201—48.)

2. A circuit closer including a casing, an insulation lining within the casing, a resistance within the lining, a cap secured to the casing for rotary and axial movement, a disk contact secured on the under surface of the cap, a contact finger electrically connected to the disk contact and extending below it and rotatable with the cap to vary its position with respect to the resistance, said contact finger being also movable with the cap dur-

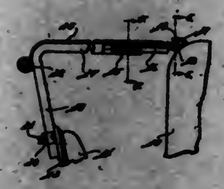


ing axial movement of the latter to close the circuit at various points along said resistance, and the said disk contact adapted to be brought into circuit closing relation with the casing by further depression of the cap to short circuit the resistance.

1,753,030. PHENOL-CARBOHYDRATE RESIN AND METHOD OF MAKING SAME. JAMES MCINTOSH, Norristown, Pa., assignor, by mesne assignments, to Continental-Diamond Fibre Company, Newark, Del., a Corporation of Delaware. Original application filed Aug. 12, 1920, Serial No. 403,125. Divided and this application filed Jan. 22, 1924, Serial No. 687,877. Renewed Jan. 27, 1930. 18 Claims. (Cl. 260—2.)

1. A synthetic resin consisting of a hard, dense, lustrous, infusible, insoluble resinous solid constituting the final product of the reaction of a phenol and starch.

1,753,031. DETACHABLE VEHICLE TOP. HOMER STACKS, Detroit, Mich. Filed Aug. 30, 1928. Serial No. 302,926. 1 Claim. (Cl. 296—99.)



In a detachable seat top of the class described adapted for use with a vehicle body having a fixed top and a seat back positioned rearwardly thereof: a transversely extending member mounted on the upper surface of said fixed top adjacent its rear side formed substantially U-shaped in cross section and opening toward the rear; a plurality of spaced studs projecting upwardly from the upper surface of the lower side of said member; a rearwardly projecting supporting member at the opposite ends of said transversely extending member; and a curtain supporting member telescoping with said rearwardly projecting members; and a curtain stretchable over said members, said curtain being secured at its forward edge to said studs, the edge of said curtain lying in the channel of said U-shaped member.

1,753,032. DOLL. CHARLES STEIN and WILLIAM M. HELLER, Atlantic City, N. J. Filed Dec. 6, 1928. Serial No. 324,172. 8 Claims. (Cl. 46—40.)

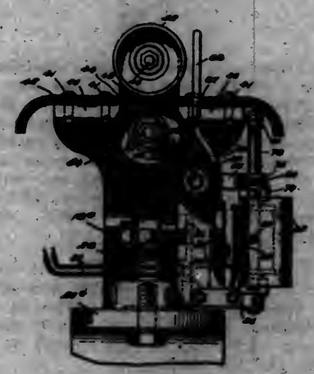
1. An arrangement for dancing figures comprising two bodies joined together in dancing posture each with flexible legs, ending in feet, and means for suspending

such figures for rotation about a vertical axis and imparting up and down movement to them, the feet being



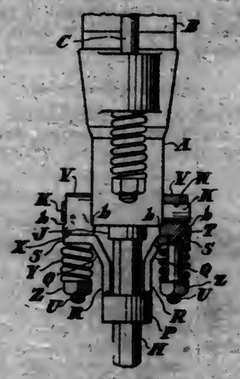
free to contact with a horizontal surface and the suspending means permitting bodies and legs to turn and sway together.

1,753,033. AUTOMATIC STRETCHING AND GUIDING APPARATUS. ANTONIO A. M. TAVEIRA, Providence, R. I., assignor to The Textile-Finishing Machinery Company, Providence, R. I., a Corporation of Rhode Island. Filed Sept. 15, 1928. Serial No. 306,107. 19 Claims. (Cl. 26—66.)



1. An automatic stretching and guiding apparatus for web material in open form, comprising a frame extending transversely of the travel of said material, a pair of guide roll standards mounted on said frame to be near each edge of said material, manually operable means to adjustably space said standards from each other on said frame, means to adjust the angularity of said standards from the perpendicular to the direction of material travel obliquely towards said direction of travel, an upper guide roll rigidly mounted on ball bearings on the upper end of each standard adapted to extend towards the center line of material travel over said material, means to raise each upper guide roll from normal position including an eccentric bushing attached to each roll shaft and a lock nut for securing each eccentric bushing in set position, a shaft pivotally mounted on ball bearings on each standard parallel to each upper guide roll and offset from the plane thereof having sets of lever arms projecting forwardly and rearwardly from each side thereof, a lower rubber covered weighted guide roll mounted on ball bearings on each set of forwardly projecting lever arms in substantially the plane of mounting of each upper guide roll and adapted to extend under said material, an armature mounted on each set of rearwardly projecting lever arms, an electromagnet rigidly mounted on each standard below said armature, a guider plate mounted on each standard parallel to the direction of material travel having a central slot therein for the nip of the upper and lower guide rolls, a balancing weighted electromagnet protective casing also mounted on each set of rearwardly projecting lever arms, means attached to each set of rearwardly projecting lever arms adapted to abut the lower edge of the guider plate to limit the drop of the lower guide roll comprising a plurality of rods adjustably mounted on said lever arms, each set of rearwardly projecting lever arms and attachments being slightly less in weight than each forwardly projecting set of lever arms and lower weighted guide rolls to normally permit each lower guide roll to drop to a position out of contact with the upper guide roll, a source of high voltage alternating current, a rectifier-transformer unit connected to said source of high voltage alternating current and to each respective electromagnet to transform said current into a low voltage direct current, an electric contact switch connected to said rectifier transformer unit and to each electromagnet, including a fixed contact and a resilient contact member having a feeler finger mounted on the outer end thereof adapted on contact of the web material therewith to break the switch connection to deenergise the respective electromagnet to permit said opposite expanding guide roll unit to align the material and draw the material away from said feeler finger to permit it to spring back to again close the switch to complete the circuit to energise the electromagnet to again raise the lower guide roll in nipping position to expand the cloth.

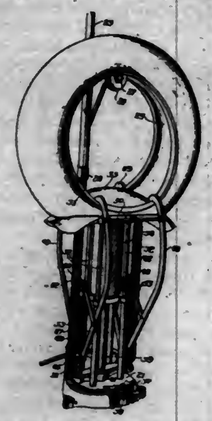
1,753,034. STEEL RETAINER. FLOYD H. THOMAS, Milan, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 21, 1927. Serial No. 241,557. 1 Claim. (Cl. 121—32.)



In a steel retainer for rock drills, the combination of a front head provided with flat surfaces on opposite sides of its front end, cylindrical trunnions disposed on the flat surfaces, a drill steel in the front head having a collar, bearing blocks pivoted on the trunnions and having surfaces bearing against the flat surfaces of the front head, bolts integral with the bearing blocks and extending forwardly of the trunnions, a yoke for partly embracing the drill steel forwardly of the collar and having a pair of side arms for attaching said yoke to the front head, said yoke and side arms being formed from a sheet metal blank, said side arms extending rearwardly from the ends of the yoke, outwardly extending flanges on the ends of the side arms and having apertures to receive the bolts, straight portions on the side arms adjacent the yoke and parallel to the drill steel adapted to slidably engage the

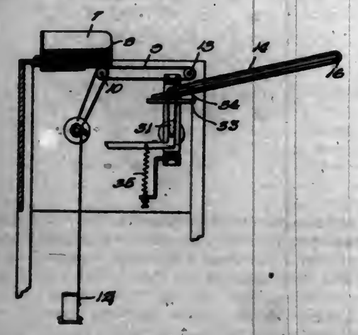
collar to prevent accidental oscillation of the yoke from the retaining position, shoulders on the bearing blocks to engage the end of the front head for holding the yoke in the retaining position, and springs on the bolts to absorb the blows of the drill steel against the yoke.

1,753,035. TIRE-CASING SPREADER. GAILARD E. WEAVER and EDWARD W. KELLEY, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed July 16, 1927. Serial No. 206,358. 10 Claims. (Cl. 154—9.)



1. In a tire-casing spreader, the combination of a pair of oppositely-facing tire-casing spreader-hooks, a first means to support a tire-casing with the gap between its margins in substantial register with the ends of said hooks, a second means to cause said casing and hooks to approach one another relatively and to cause such hooks to enter said gap and engage the margins of the tire-casing, and a third means tending to hold said hooks in register with said gap and controlled by the deformation resistance offered by the casing to cause said hooks to separate and spread the casing on further action of said second means.

1,753,036. MAIL-SORTING APPARATUS. TIMOTHY W. WILLIAMSON and ROBERT R. GENTRY, Hollywood, Tenn. Filed Apr. 20, 1928. Serial No. 271,681. 5 Claims. (Cl. 214—11.)



1. A mail sorting apparatus of the class described comprising a conveyor adapted to initially receive the mail, a discharge conveyor arranged to receive the mail from the discharge end of said first named conveyor, means for pivotally mounting the receiving end of said discharge conveyor for vertical swinging movement, means for pivotally supporting said first named means for horisontal swinging movement, an operating lever adapted for effecting either a vertical or horisontal movement of said conveyor, a control arm engageable with said lever for regulating the vertical adjusting movement of the conveyor, and a keyboard for said control arm having a plurality of manually actuated keys adapted for selectively moving the arm in a predetermined manner with respect to said lever whereby to control the extent of adjustment thereof.

1,753,037. AXLE FOR SELF-PROPELLED VEHICLES. BERTIS H. URSCHEL, Bowling Green, Ohio, assignor to Urschel Engineering Company, Bowling Green, Ohio, a Corporation of Ohio. Filed Mar. 7, 1928. Serial No. 259,799. 2 Claims. (Cl. 301—124.)



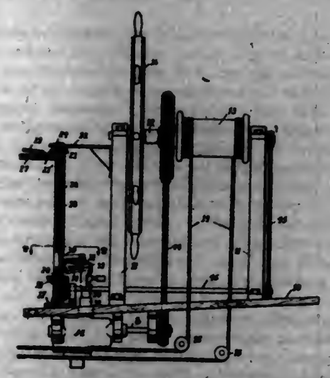
1. An axle for a vehicle comprising a tubular member having oblong end portions, the major axis of the end portions extending substantially vertically, the top and bottom sides of the end portions being cylindrical in form and the sides of the end portions being substantially plane, the top and bottom having holes and bearing members fitting the said holes and the inner surfaces of the said sides of the end portions.

1,753,038. SLIDE-WAY FOR WINDOW PANES. DESIRE H. VAN HOVE, Royal Oak, Mich. Filed July 12, 1928. Serial No. 292,092. 2 Claims. (Cl. 296—145.)



1. A slideway for a window pane comprising a sheet metal body of channel cross section, the outer edges of the arms of said body member being directed inwardly, a tubular rubber cushion disposed longitudinally on the inner side of one arm of said body member against the inwardly directed portion at its outer edge, and a felt covering for said body member arranged over said cushion member, the edges of said covering being folded rearwardly over the outer side of the arms of said body member and lapped upon the web thereof.

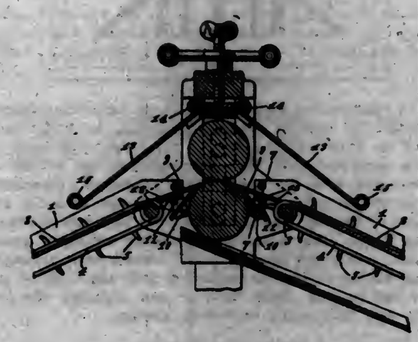
1,753,039. STEERING GEAR. LLOYD VAN HORN ARMSTRONG, Upper Montclair, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 2, 1928. Serial No. 297,033. 4 Claims. (Cl. 114—16.)



4. A follow up control apparatus for imparting predetermined angular movements to a driven shaft, of a power

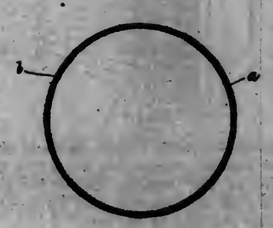
shaft connected to said driven shaft and a reversible motor for driving the same, a manually operative rotary valve for said motor adapted to control the directional movements of the same; a plate on said valve having a slot therein and means slidable in said slot responsive to minute directional movements of the driven shaft for automatically closing the valve.

1,753,040. SAFETY ATTACHMENT FOR WRINGERS. JOHN BEITLER, Brentwood, Pa. Filed Apr. 21, 1928. Serial No. 271,827. 3 Claims. (Cl. 68—32.)



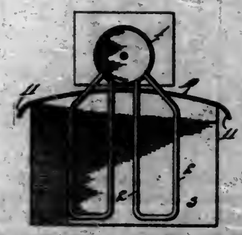
1. In combination with a wringer, means for conveying clothes to the wringer, means for conveying clothes from the wringer, means for driving both conveying means from one of the rolls of the wringer, guards attached to the upper part of the wringer, one at each side thereof and extending outwardly and downwardly over the inner portions of the conveying means, members bridging the space between the upper ends of the conveying means and the lower roll of the wringer and means for yieldingly supporting the members with their upper portions against the lower roll of the wringer.

1,753,041. GROMMET FOR PNEUMATIC TIRES. PIERRE MARCEL BOURDON, Paris, France, assignor to Michelin et Cie., Clermont-Ferrand, France, a Corporation of France. Filed July 25, 1928, Serial No. 295,220, and in France Aug. 1, 1927. 1 Claim. (Cl. 140—111.)



A bead reinforcement for pneumatic tires having a circularly curved wire therein with its ends approaching each other, a connecting sleeve open at its opposite ends and adapted to freely and slidably receive the ends of the wire to permit of the free flexing of the wire in the expansion and contraction of the ring formed by the wire, said sleeve adapted to maintain the free ends of the wire in alignment during the relative movement of the ends of the wire.

1,753,042. REFRIGERATION COIL. CHARLES MANDELL BRENNER, Shreveport, La. Filed Apr. 12, 1929. Serial No. 354,683. 6 Claims. (Cl. 62—95.)



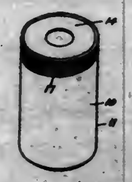
1. The combination with a refrigerating unit including a boiler with refrigerant containing tubes depending therefrom, of a drip protector for said tubes mounted between said boiler and the upper portions of said tubes, and spanning the space between the tubes and projecting over and beyond them.

1,753,043. ELECTRIC MEASURING INSTRUMENT. HOWARD BUTLER, Four Oaks, England. Filed Mar. 23, 1928, Serial No. 264,186, and in Great Britain Apr. 1, 1927. 1 Claim. (Cl. 171—95.)



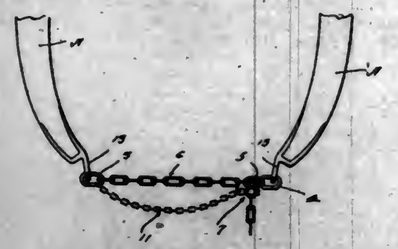
An instrument for indicating electric battery charge comprising in combination a movable indicator, electromagnetic means adapted to actuate said indicator, a dial relative to which the said indicator moves to indicate the condition of the battery, means whereby definite conditions, as low, medium and fully charged conditions, of the battery are indicated by the position of the indicator relative to the dial, suppression means associated with said indicator adapted to withhold the indicator against movement until a predetermined battery condition has been reached, said electro-magnetic operating means for said indicator comprising a moving iron fixed to the movable indicator, a fixed iron, an actuating coil adapted to be placed in circuit with the battery being tested and adapted to create a magnetic field about said irons when current passes through said coil and so similarly magnetize by induction the irons, whereby they repel one another and actuate the indicator to an extent depending on the condition of the said battery, an automatically operating compensating winding included in the wiring of the instrument and adapted to enable the instrument to register the true condition of the battery irrespective of the boosting of the voltage due to excessive rate of charging, said compensating winding being placed concentrically with respect to the said actuating coil and being such that the magnetic field set up thereby when an electric current flows through it opposes the magnetic effect of the actuating coil on the indicator.

1,753,044. RECEPTACLE FOR USE IN MANICURING. GENE GORDON CULVER, St. Louis, Mo. Filed May 22, 1929. Serial No. 365,069. 6 Claims. (Cl. 132—73.)



6. In a manicuring implement of the character described, a receptacle for the tip of the finger adapted to receive a treating fluid and having in a wall thereof an opening defined by a flexible resilient margin having engagement with the inserted finger perfecting the seal of the receptacle, and a removable cap for the receptacle having means for sealing the receptacle to prevent the escape of fluid therefrom.

1,753,045. HAME CONNECTER. ALBERT J. ELLIS, Bolton, N. C. Filed Apr. 15, 1929. Serial No. 355,277. 2 Claims. (Cl. 54—26.)



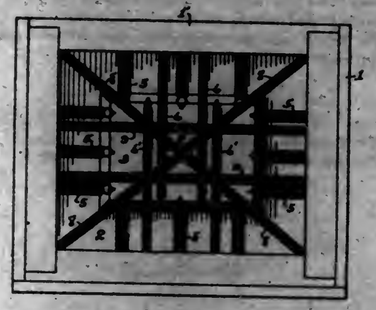
1. In a structure of the class described, in combination, a pair of complemental hame sections provided at their lower ends with eyes, open links detachably connected with said eyes, a chain connected at one end with one link, a ring connected with the remaining link, the free end of said chain being adapted to extend down through said ring, and a keeper adapted for detachable engagement with the free end portion of said chain, together with a secondary retaining chain for said keeper connected to one of the links.

1,753,046. FUSE. ALFRED L. EUSTICE, Chicago, Ill. Filed Dec. 1, 1921. Serial No. 519,159. 17 Claims. (Cl. 200—121.)



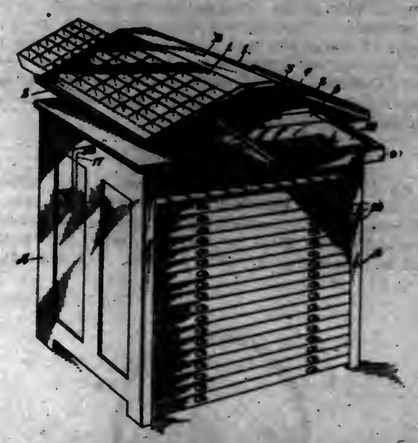
1. An electric fuse comprising a substantially closed receptacle having a sight opening and a fusible element mounted within said receptacle, said fusible element having a plural odd number of restricted portions, the central one of which is located substantially symmetrically with the remainder of said restricted portions, said central restricted portion being located directly in front of said sight opening to be readily visible through said sight opening.

1,753,047. SHOCK ABSORBER. HERBERT FROMM, Hamburg, Wis. Filed Apr. 5, 1929. Serial No. 352,856. 3 Claims. (Cl. 155—50.)



1. In combination with a seat and its supporting frame, a plurality of tension springs connecting an under portion of the seat with the sides of the frame, a number of springs connected with the central part of the bottom of the seat and with the sides of the frame and forwardly and rearwardly extending springs connected with the under face of the seat and with the front and rear portions of the frame, the latter springs being arranged above the last mentioned springs, and transversely arranged springs having their ends connected with the sides of the frame and passing under the seat and engaging the forwardly and rearwardly extending springs.

1,753,048. ADJUSTABLE TOP FOR TYPE CABINETS. MERRITT W. HAYNES, Cranford, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 10, 1928. Serial No. 325,015. 4 Claims. (Cl. 276—44.)

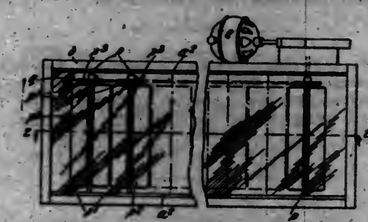


1. The combination with a type cabinet, of a separate top above the cabinet, means for adjusting the top vertically relative to the cabinet, means for securing the top at any desired adjustment, and an inclined drawer movable through one end of the top.

1,753,049. ILLUMINATIVE ADVERTISING APPARATUS. JACK DAVID HENDERSON, London, England, assignor to Moving Colour Signs Limited, London, England, a British Company. Filed Apr. 2, 1929, Serial No. 351,966, and in Great Britain June 26, 1928. 8 Claims. (Cl. 40—130.)

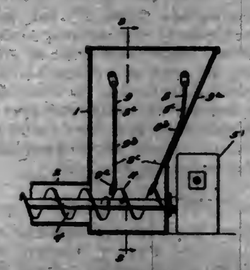
1. An advertising sign consisting of a stencil through which light passes to illuminate it, means for reflecting

the light, a plurality of rotatable spindles, strips of transparent coloured material supported on said spindles



and arranged in the path of the light, and means for rotating said spindles to cause rotation of said strips so as to repeatedly change the colour of said sign.

1,753,050. STOKER ATTACHMENT. ROBERT H. S. HUGHES, Baltimore, Md. Filed Apr. 6, 1929. Serial No. 353,189. 4 Claims. (Cl. 110—110.)



1. In a stoker, a fuel hopper having sheet metal walls, a fire pot, a pipe leading from the former to the latter, a screw conveyer in the hopper and pipe and means for vibrating one of the hopper walls at one side of the axis of the conveyer comprising a resilient member secured to said wall and extending downwardly through the hopper into position to be moved and tripped by the convolutions of the conveyer, said member, while being moved to the tripping position, adapted to put said wall under strain.

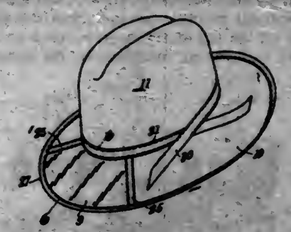
1,753,051. ASSEMBLY UNIT. HUGO JUNKERS, Dessau, Germany. Filed May 28, 1929, Serial No. 366,634, and in Germany June 8, 1928. 2 Claims. (Cl. 144—288.)



1. An assembly unit comprising a templet of plane lattice work, means on said templet for securing thereto members of the structure to be assembled, said means being adapted to be displaced transversely with respect to said templet, a gauge on each one of said means, and means on said templet for checking the proper position of said gauges.

1,753,052. HAT. JAMES LAKE, Jr., Brooklyn, N. Y. Filed Sept. 18, 1929. Serial No. 393,384. 3 Claims. (Cl. 2—175.)

1. The process of manufacturing a visor hat, which comprises forming an upstanding flange at the inner curved edge of a segmental visor piece, securing said visor piece down over the brim of the hat with the



upstanding flange bearing against and secured to the base of the crown and then removing the underlying portion of the brim beneath the attached visor piece.

1,753,053. APPARATUS FOR LEARNING CORRECT BOW WORK FOR STRINGED INSTRUMENTS. JOSEPH BRAUNSTEIN-LOSKANT, Basel, Switzerland. Filed Feb. 2, 1929, Serial No. 337,046, and in Switzerland Mar. 3, 1928. 2 Claims. (Cl. 84—283.)



1. An apparatus for learning correct bow work for stringed musical instruments, consisting of a single bridge member to be adapted on the belly thereof, having deep longitudinal grooves for the strings and ribs between said grooves and in the ribs between said grooves notches situated in the same transverse line above the bottom of said grooves so as to constitute a transverse guide path for the bow running at right angle to the strings, in order to compel the pupil to guide the bow correctly.

1,753,054. CASE AND CONTAINER. SIEGFRIED G. MARSHUTZ and PHILLIP SOCKETT, Los Angeles, Calif., assignors to The Atlas Leather Products Corporation, Los Angeles, Calif., a Corporation of California. Filed Mar. 5, 1929. Serial No. 344,205. 4 Claims. (Cl. 206—5.)

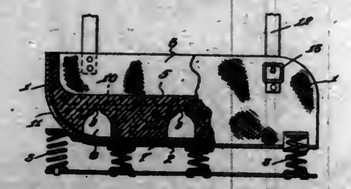


1. In a case, the combination of a flap provided with one element of co-operative fastening means; a strip fitted within said case and provided intermediate its ends with a recess; a block snugly fitted into and spanning said recess, said strip and block being adapted to be received in said case so that said block will be positioned in rear of the case fastening means when the flap is closed.

1,753,055. KNEE PAD. ROY MATHESON, Hollis, Okla. Filed Apr. 2, 1928. Serial No. 266,763. 1 Claim. (Cl. 2—24.)

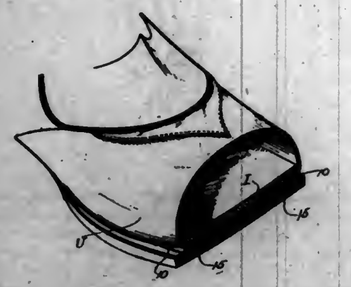
A device of the class described comprising a member of trough shape with one end closed, a frame connected with

the bottom of said member, a plurality of coil springs having their upper ends connected with the frame, a flat frame connected with the lower ends of the springs, straps connected with the member for fastening the same to the knee portion of the leg of the user, a resilient pad in the member, said pad having openings in its bottom portion



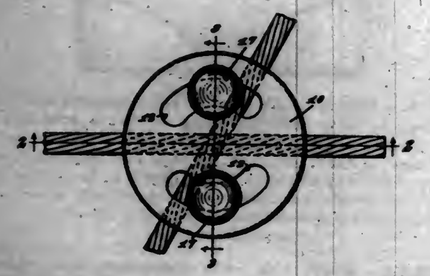
forming air chambers and said pad having transverse and longitudinal passages therein connected with the chambers and passing through the edges of the pad and the trough-shaped member having slots in its walls for exposing the outer ends of the passages whereby air can be drawn into the chambers and expelled therefrom while the device is in use.

1,753,056. SHOE WELT. CHARLES H. MERROW, Brockton, Mass. Filed July 1, 1929. Serial No. 375,119. 1 Claim. (Cl. 36—78.)



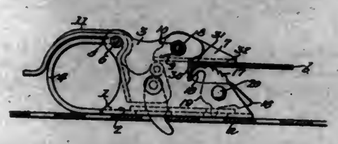
A shoe welt comprising a unitary strip of material having when applied to the shoe an outer visible extension and an inner invisible extension of different thicknesses, the outer extension being of uniform thickness throughout its width and being the thinner, each of said extensions being free from laminæ, one face of the strip being plane, the opposite face of the strip at the invisible extension and adjacent the junction of the extensions having a stitch-receiving groove.

1,753,057. CLAMP. MARION C. MORRIS, Rosemary, N. C. Filed Aug. 5, 1929. Serial No. 383,493. 2 Claims. (Cl. 24—135.)



1. A clamp for intersecting lines comprising a pair of gripping elements, said elements having line receiving grooves and central depressions to accommodate the intersecting portions thereof, and means establishing connection between said elements to bind the immediate and intersecting portions of the lines therebetween.

1,753,058. TOGGLE. CHARLES S. MORRISON, Elkins Park, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 10, 1928. Serial No. 298,785. 5 Claims. (Cl. 24—250.)

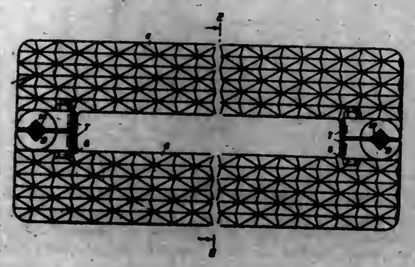


1. The combination in a toggle of a body portion, a pair of spaced jaws carried by and movable toward said body portion and movable toward each other to grip a sheet of material between the jaws, and a stop carried by one of said jaws and extending toward the other of said jaws, said stop being movable with said jaws toward said body portion and adapted when said jaws are in the material gripping position to prevent the gripped material from engaging the body portion of the toggle.

1,753,059. PRODUCTION OF PHOTOGRAPHIC IMAGES. HUMPHREY DESMOND MURRAY, London, England, assignor of one-half to Norton and Gregory Limited, London, England. Filed Sept. 14, 1929, Serial No. 392,744, and in Great Britain July 14, 1928. 4 Claims. (Cl. 95—88.)

1. A process for preventing deterioration of diazotypes which comprises treating the diazotype paper after exposure with an alkali hypophosphite.

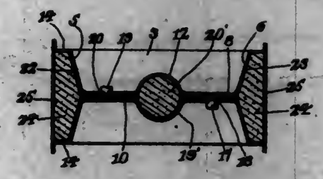
1,753,060. SHIP'S PILOT LADDER. ANDREW MYERSTUEN, Seattle, Wash. Filed May 8, 1928. Serial No. 276,174. 1 Claim. (Cl. 228—58.)



As a new article of manufacture a step for a ladder, said step being channelled upon its under side and having its upper surface roughened to constitute a tread, angular bracket members integral with said step, each bracket member being provided with a groove adapted to receive one of the supporting side members of the ladder and with means coacting with the groove to lock the side members against movement with respect to the bracket.

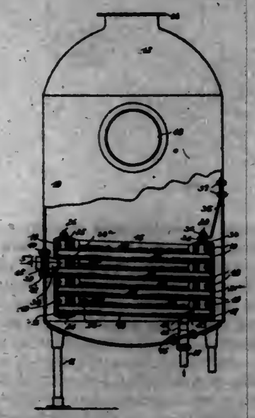
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1,753,061. MOLD. GEORGE E. NAGEL, Columbus, Ohio. Filed May 18, 1929. Serial No. 362,699. 7 Claims. (Cl. 25—121.)



4. A mold comprising a pair of oppositely disposed abutting sections of like form and each including a body portion closed at its rear and open at its front and formed of side and end walls, said walls inclining outwardly from their inner towards their outer ends, a laterally extending flange integral with the outer ends of said walls and co-extensive with said body portions, the closed rear of said body portion formed with an outwardly directed bridge piece connecting the side walls thereof together, said bridges coacting to provide a molding chamber and the walls and flange of one body portion coacting with the walls and flange of the other body portion to provide side and end molding cavities, said molding chamber opening into said side molding cavities, said closed rear of said body portion having coacting means for retaining said sections in abutting engagement.

1,753,062. LIQUID-PROCESSING APPARATUS. EDGAR B. NICHOLS and ULYSSES G. TODD, Rochester, N. Y., assignors to The Pfaudler Co., Rochester, N. Y., a Corporation of New York. Filed Jan. 27, 1926. Serial No. 84,048. 10 Claims. (Cl. 257—205.)



4. A liquid processing apparatus comprising a liquid container, a series of horiontal curved pipe lengths in the lower portion of said container and having openings through the ends thereof, certain of said pipe lengths being curved in opposite directions from certain other pipe lengths, seats formed about said openings, means comprising a tie rod passed through said openings for detachably securing said pipe length seats together with said openings in communication with one another to form headers at opposite ends of said pipe lengths, and supply and discharge connections communicating with said headers respectively, and extended through the walls of said container.

1,753,063. CONCRETE FOOT FOR WOODEN POLES. FRITZ NITZSCHE, Karlsruhe, Germany. Filed Jan. 14, 1924. Serial No. 686,171. 4 Claims. (Cl. 72—84.)



1. A concrete supporting base for wooden poles, comprising a two part foot, means connecting the parts of the foot so that they form a single post, the foot being formed as a hollow body.

1,753,064. ELECTRICAL PLUG AND SOCKET. WILLIAM NONNENMAN, St. John, New Brunswick, Canada. Filed Mar. 22, 1928. Serial No. 263,757. 2 Claims. (Cl. 173—343.)



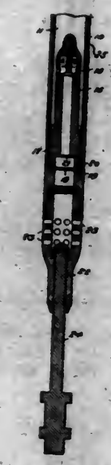
1. In an electric plug and socket, a socket provided with longitudinal chambers having lateral recesses forming inwardly facing shoulders and with longitudinal contacts having lateral ears extending into the recesses and engaging the shoulders, and a plug slidable and turnable in the socket and provided with contacts having lateral ears for engaging the shoulders of the socket and the ears of the socket contacts when the plug is turned in said socket.

1,753,065. CRUTCH ATTACHMENT. THOMAS E. PAYNE, Toledo, Ohio. Filed July 26, 1929. Serial No. 381,231. 2 Claims. (Cl. 135—53.)



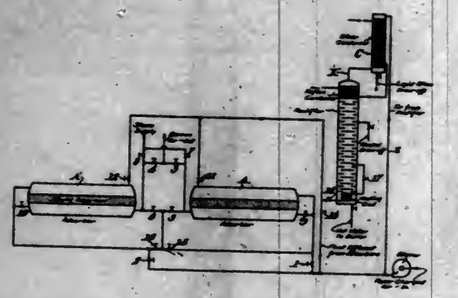
1. An attachment for a crutch comprising a ferrule, a pair of tubular telescopic members, the upper one of which is detachably connected with the ferrule, a tip on the lower end of the other member, spring means for resisting movement of the lower telescopic member in the upper one and a second pair of telescopic members placed within the first pair and enclosing the spring and forming an air chamber.

1,753,066. FORMATION SAMPLER. GERALD A. POOLE and SCOTT G. FORNEY, Fort Worth, Tex., assignors to Gulf Production Company, Houston, Tex., a Corporation of Texas. Filed Apr. 20, 1929. Serial No. 356,766. 7 Claims. (Cl. 166—1.)



1. In a device of the character described, the combination of a tubular member having a chamber therein, an outlet valve through which air may be exhausted from the chamber, an automatically operable inlet valve for said chamber, a breakable closure in the bore of said tubular member normally preventing access of fluids through said member to said inlet valve and chamber, and a plunger loose in said member for rupturing said closure upon impact against the bottom of a well.

1,753,067. RECOVERY OF ADSORBABLE SUBSTANCES. ARTHUR B. RAY, Bayside, and GEORGE T. FELBECK, Mount Vernon, N. Y., assignors to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed May 26, 1926. Serial No. 111,800. 4 Claims. (Cl. 252—4.)



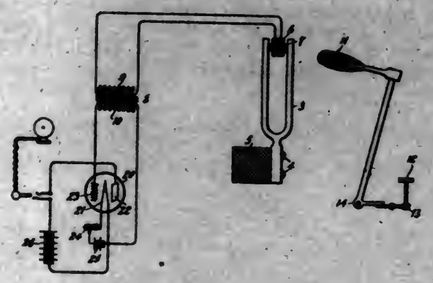
1. The process of recovering condensible vapor from a mixture containing non-condensible gas, which comprises flowing the mixture through a bed of solid absorbent and a gas space adjacent thereto, whereby condensible vapor is taken up by the absorbent; interrupting the current; clearing said gas space of non-condensible gas by flowing condensible vapor through said space, but not through the absorbent; and then distilling vapor from the absorbent into said space, and withdrawing it from said space substantially free from non-condensible substances.

1,753,068. AIRSHIP. HUGH J. ROSS, Cliffwood, N. J. Filed May 14, 1929. Serial No. 362,944. 9 Claims. (Cl. 244—6.)



1. An airship of the class described comprising a fuselage, gas bags on the fuselage, motor driven propellers to the sides of the fuselage, means for rockably mounting the motor driven propellers on vertical axis and for controlling the same from the interior of the fuselage, motor driven propellers on the upper rear part of the fuselage and mounted on vertical axis, and means associated therewith for controlling them from interiorly of the fuselage, a motor with a front propeller mounted on the front top of the fuselage and having its axis inclined upwardly and forwardly.

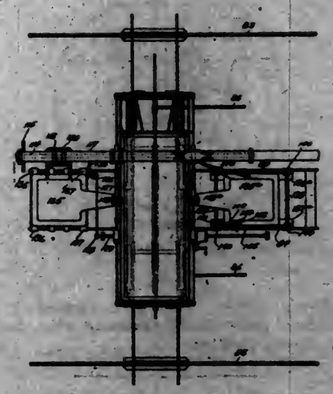
1,753,069. METHOD OF AND APPARATUS FOR EMPLOYING TUNING FORKS TO GENERATE AUDIO FREQUENCY CURRENT AS A MEDIUM FOR SOUND. MAX SCHUMM, Port Jefferson, N. Y. Filed July 5, 1928. Serial No. 290,502. 3 Claims. (Cl. 84—409.)



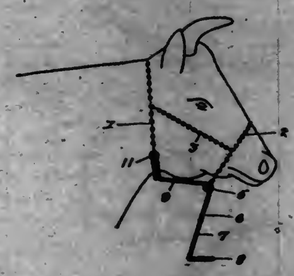
1. The method of producing a musical note which consists in vibrating a magnetised tuning fork whose period of vibration corresponds to the period of vibration of the desired note to vary the reluctance of a magnetic circuit including said tuning fork and the core of an electromagnet thereby generating an electric current in the winding of said magnet, the frequency and amplitude of said current being dependent upon the period of vibration of the tuning fork, in amplifying the current thus generated, and in applying the current thus amplified to the terminals of the winding of an electro-mechanical sound reproducer to reproduce the musical note emitted by the tuning fork.

1,753,070. PANEL-ASSEMBLING APPARATUS. WALTER M. SCHWARTZ, ALMA J. HARRISON, and JOHN L. FAGAN, Philadelphia, Pa., assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 1, 1928. Serial No. 274,809. 15 Claims. (Cl. 219—4.)

1. In a panel assembling apparatus, the combination of a frame adapted to receive the elements of a panel in definite relation to each other, a secondary carriage for supporting said frame, a primary carriage for supporting said secondary carriage, means for moving said secondary carriage relative to said primary carriage and to said welding units, and means for moving said primary carriage relative to said welding units whereby the assembled panel elements may be welded together at predetermined points.



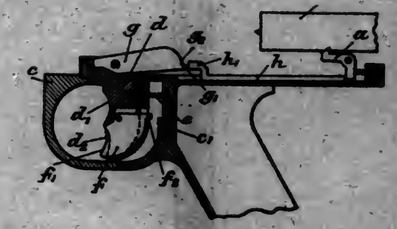
1,753,071. COW POKE. CORTS J. SPENCER, Dundee, N. Y. Filed Aug. 6, 1928. Serial No. 297,790. 1 Claim. (Cl. 119—141.)



A cow poke designed to be attched to the nose band and throat strap of a halter, formed from a metal rod which is rounded upon itself to provide an eye for the reception of the halter nose band and to provide arms which extend at opposite angles from said eye, the depending arm having its end extending at an outward angle to provide a finger and the horizontal arm having its end bent to provide a laterally extending arched portion which comprises inner and outer members that have their ends rounded to provide eyes to be adjustably engaged by the throat strap of the halter, and the remainder of said latter arched portions being in contact with each other.

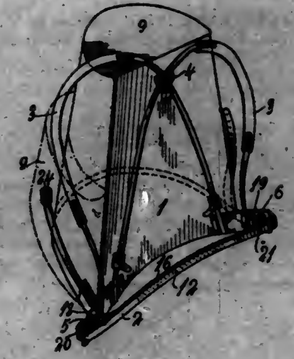
1,753,072. TRIGGER APPARATUS FOR THE SINGLE AND CONTINUOUS FIRE OF AUTOMATIC FIREARMS. LOUIS STANGE, Sommerda, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Duesseldorf-Derendorf, Germany, a Corporation of Germany. Filed June 14, 1929, Serial No. 370,894, and in Germany Nov. 9, 1928. 5 Claims. (Cl. 42—8.)

1. In a trigger apparatus of automatic firearms in combination a breech piece, a spring actuated sear for locking said breech piece, a trigger member for single fire movably arranged in a guard, a second trigger member for



continuous fire also arranged movably in said guard, means for connecting said trigger members with said sear and means for locking said sear in its withdrawn position.

1,753,073. BUCKET AND EQUIPMENT FOR CARRYING SAME. EINAR TRÖPTEN, Sulitjelma, Norway. Filed Sept. 25, 1928, Serial No. 308,231, and in Norway Aug. 5, 1927. 3 Claims. (Cl. 224—11.)



1. In combination with a bucket to be carried on the back, a carrying equipment comprising a single strap member, one holding member attached at the upper part of the bucket, a holding member attached at each side of the lower part of the bucket for receiving said strap member to be held thereby in such a manner that the middle portion of the strap extending between the said lower holding members takes the character of a hip-band for the bucket carrying equipment, another strap connected with said middle portion of the carrying strap and means for fastening said last mentioned strap to opposite ends of the lower portion of the bucket.

1,753,074. TRIP CASING SPEAR. GODFRIDUS HENDRIKUS CLERKX VAN KEULEN, The Hague, Netherlands, assignor to De Bataafsche Petroleum Maatschappij, The Hague, Netherlands. Filed Sept. 17, 1928, Serial No. 306,565, and in the Netherlands June 19, 1928. 7 Claims. (Cl. 294—86.)

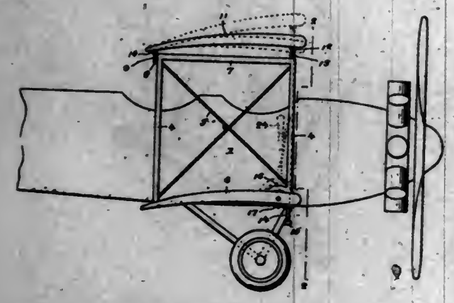
1. In a trip casing spear, the combination of a central wedge-shaped body, gripping slips adapted to be forced radially outwards by upward movement of said body, an annulus adapted to exert upward pressure upon the slips and keep the same in inoperative position, a spring adapted to exert upward pressure upon the said annulus, means for locking said annulus against axial movement relative

to said body, a central push bar adapted to exert downward pressure upon said annulus so as to displace it



against the action of said spring and cause it to be tripped, and means operable from above whereby downward pressure can be exerted upon said bar.

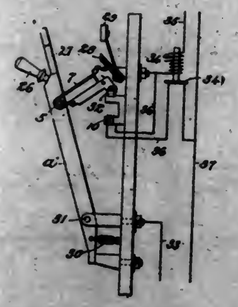
1,753,075. AEROPLANE WING. CHARLES W. VINCENT, Kingston, Pa. Filed Nov. 2, 1929. Serial No. 404,340. 1 Claim. (Cl. 244—12.)



Substantially rectangular skeleton frames removably secured to the sides of an aircraft, lower supporting wings fixed to the frames, upper control wings having their rear ends hingedly secured to the frames, bars movable through the front elements of the frames and pivotally secured to the control means and having lower rack surfaces, said bars having headed ends for limiting the movement thereof through the frames, toothed wheels having shafts journaled through the frames, an operating lever for each of the shafts arranged in the cockpit of the aircraft, segmental racks and hand operated pawls for the levers engageable with the racks, and said levers having socket ends to receive the inner ends of the shafts therein.

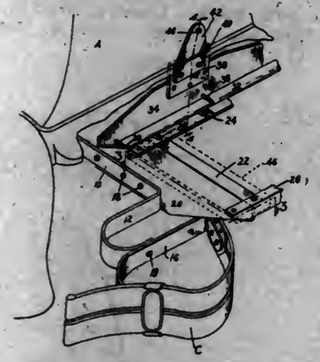
1,753,076. SWITCH-ACTUATING MECHANISM. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Original application filed Dec. 8, 1926, Serial No. 153,304. Divided and this application filed Feb. 9, 1929. Serial No. 338,717. 8 Claims. (Cl. 175—337.)

1. A switch-operating mechanism comprising a relatively long operating lever, a holding magnet and an armature for the magnet pivoted adjacent the free end of the lever and having a sliding connection with a part on the free end of the lever whereby the rocking movements of the lever are imparted to the armature, said lever and armature each adapted to swing toward the pivotal axis of the other when said lever is moved to



switch closing position, said part adapted to lie close to the fulcrum point of the armature when the lever is in switch-closing position.

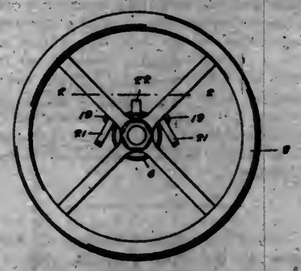
1,753,077. TRUNK AND LUGGAGE RACK. WILLIAM W. WILSON, Sioux City, Iowa, assignor to Karl-Keen Manufacturing Company, Inc., a Corporation of Delaware. Original application filed Sept. 16, 1929, Serial No. 392,960. Divided and this application filed Oct. 19, 1929. Serial No. 400,876. 9 Claims. (Cl. 293—55.)



1. In combination with an automobile having a pair of rearwardly extending bumper supporting arms, a carrying rack comprising a pair of side plates secured to said arms and extending upwardly therefrom, transverse means of connection between said plates to serve as the carrier, a brace rod extending between said bumper supporting arms, an intermediate supporting element connected to the automobile body and extending in opposite directions therefrom towards the ends of said brace rod whereby the carrier is braced and supported through the medium of said brace rod and connection with the intermediate portion of the automobile body.

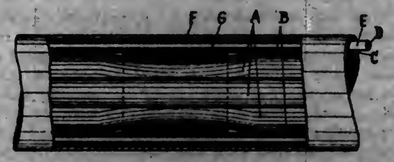
1,753,078. SWITCH FOR DIRECTIONAL SIGNALS. ELMER L. YOCUM, Shamokin, and RALPH T. WARDROP, Bear Gap, Pa. Filed Mar. 6, 1929. Serial No. 344,812. 1 Claim. (Cl. 200—59.)

In a motor vehicle, a switch casing located on the steering column thereof adjacent the steering wheel, a switch in the casing comprising upper and lower members, rods on which the members slide, spring means for forcing the members toward each other, a bridging member carried by the lower member, a pair of contacts bridged by said member when the lower member is depressed, a block arranged between the two members, a shaft passing through the casing and connected with the block adjacent one end of the block, a handle connected with the outer end of the shaft and extending upwardly when the



switch is in closed position and a depending part on the steering wheel for engaging the handle when the wheel is turned to cause the same to move the switch to open position.

1,753,079. SUBMARINE CABLE WITH PRESSURE-PROTECTING COVERING. GEORG ZAPF, Riehlerwall, Cologne, Germany, assignor to Felten & Guilleaume Carlswerk Actiengesellschaft, Cologne-Mulheim, Germany. Filed Sept. 12, 1928, Serial No. 305,542, and in Germany Oct. 31, 1927. 3 Claims. (Cl. 173—266.)



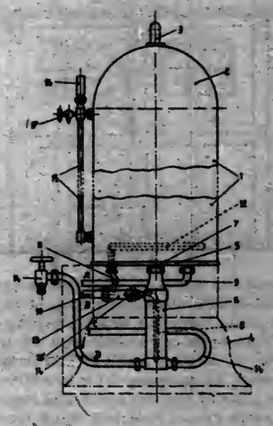
1. A submarine cable having a pressure protecting covering constituted by profile wires or strips forming a tube and means between the core of the cable and the said pressure protecting covering for increasing the friction between them.

1,753,080. OPTICIAN'S PLIERS. ARTHUR J. ZWILLING, Valley Stream, and JACOB FAIST, Glendale, N. Y. Filed Mar. 26, 1927. Serial No. 178,686. 1 Claim. (Cl. 81—3.6.)



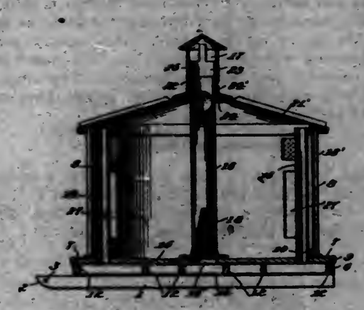
In combination, an optician's pliers comprising a pair of pivoted jaw members including handle portions and coacting jaws, said jaws having coacting longitudinal grooves, V-shaped in cross section, formed in the respective cooperating jaw faces, and having a plurality of pairs of coacting grooves extending transversely from said longitudinal grooves to opposite sides of said jaw members, the meeting side portions of the jaw members opposite each pair of transverse grooves presenting a closed wall at the juncture of the latter with said longitudinal grooves, whereby the plier jaw members include a plurality of right angular grooves for selective use with eye-glass bridge-pieces of different length, each of said right angular grooves including a longitudinal portion adapted to receive the shank of an eye-glass bridge-piece with four point contact and another portion of said bridge-piece with rounded engaging surfaces, to firmly grip said bridge-piece on closing said jaws.

1,753,081. AUTOMATIC APPARATUS FOR THE RAPID PRODUCTION OF AERATED WATER. CARLO DENOSSI, Turin, Italy. Filed Nov. 14, 1927, Serial No. 233,189, and in Italy Nov. 26, 1926. 2 Claims. (Cl. 225—21.)



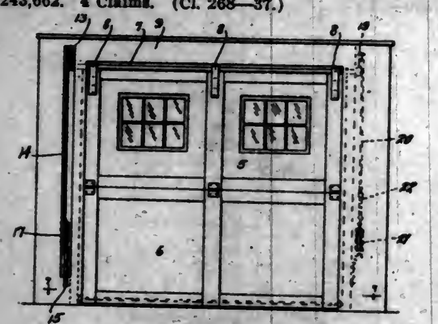
1. An automatic apparatus for the rapid production of aerated water comprising in combination, a vessel for the water to be aerated, a hollow base for said vessel, an aerator located in said base and permanently connected with the bottom of said vessel, a tube provided with capillary holes axially arranged within the aerator, a gas supply conduit connected with said tube, a controlling valve in the gas conduit, a conduit for feeding the water to be aerated to said vessel, a valve in the water conduit, a conduit for the direct delivery of the aerated water, a distributing cock, in the last named conduit and a conduit provided with a control valve for filling the bottles, said valves being in alinement on one side of said base.

1,753,082. BROODER HOUSE. ELMER C. DICKEY, Kokomo, Ind. Filed June 16, 1927. Serial No. 199,245. 7 Claims. (Cl. 119—21.)



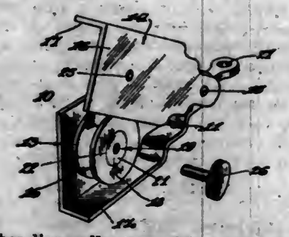
1. A brooder house of the character described, comprising a plurality of sled runners, a metallic pan fixedly seated upon said runners, a series of joists disposed upon said pan, a flooring secured to the joists, an annular housing supported by said flooring, and a plurality of air inlets disposed within the housing adapted to receive fresh air from below the flooring and discharge the air near the upper part of the housing.

1,753,083. DOOR-OPERATING MECHANISM. ALFRED C. FARR, Upland, Ind., assignor of one-fourth to No-Greef Products, Incorporated, Muncie, Ind., a Corporation of Indiana. Filed Dec. 30, 1927. Serial No. 243,662. 4 Claims. (Cl. 268—37.)



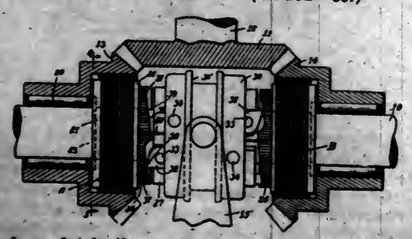
1. In a device of the class described comprising a vertically suspended door mounted for upward swinging movement, a rock shaft journaled to a supporting structure at the opposite side edges of the door and fixedly secured to the upper edge of the door, a bell crank carried at one end of said rock shaft, an operating lever operatively connected to one of the arms of the bell crank and means connected with the opposite arm of said bell crank for securing the door in uppermost position.

1,753,084. CLOTHESLINE PULLEY. ADOLPH KAPPEL, Brooklyn, N. Y. Filed Oct. 31, 1927. Serial No. 230,063. 3 Claims. (Cl. 254—197.)



1. A clothes line pulley comprising a housing open at one end embodying a pair of coacting pivotally connected sections, a bearing extending inwardly from one of said sections and having a threaded bore therein, a pulley wheel rotatably mounted on said bearing, the other of said sections having an opening therein for registry with said threaded bore when said sections are in a closed position, and a threaded stud passing through said opening and coacting with said threaded bore for maintaining said sections in a closed position.

1,753,085. CLUTCH. JUEL L. PETERSON, Rockford, Ill., assignor to Rockford Drilling Machine Co., Rockford, Ill., a Corporation of Illinois. Filed Sept. 28, 1927. Serial No. 222,558. 9 Claims. (Cl. 192—69.)



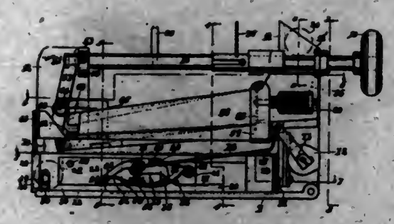
1. In a clutch, the combination with a shaft, of clutch discs on said shaft arranged for cooperation with other clutch discs, actuating means shiftable relative to the shaft to bring the discs together in clutched relation, a pressure plate for pressing the discs together, a ring between the pressure plate and the actuating means for operating the plate from the actuating means, and a pivoted lever disposed for operation by the actuating means arranged to be swung to a clutch engaging position so that a part thereof bears against the ring to press the discs into clutched relation, said ring having a spiral cam face on the side thereof facing the lever, whereby in the turning of the ring any undesired clearance between the lever and the ring is arranged to be taken up to compensate for wear in the clutch.

1,753,086. CORN SHAVER. GEORGE G. NIEDOMANSKI, Washington, D. C. Filed July 23, 1927. Serial No. 207,927. 1 Claim. (Cl. 30—23.)



A corn shaver comprising a substantially rectangular holder formed from a single piece of material and including a bottom wall having an opening therein, spaced parallel side walls and end walls disposed between the side walls, one of said end walls extending upwardly and rearwardly, a wedge-shaped element located within the holder and extending from one edge of the opening to the upper edge of the other end wall, and a non-flexible cutting blade located within the holder and secured to the upper inclined face of the wedge-shaped element.

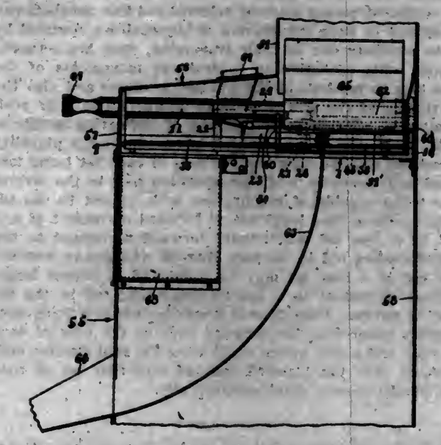
1,753,087. COIN-CONTROLLED MECHANISM. CLIFTON W. NIXON, New York, N. Y. Filed June 7, 1926. Serial No. 114,112. 14 Claims. (Cl. 194—92.)



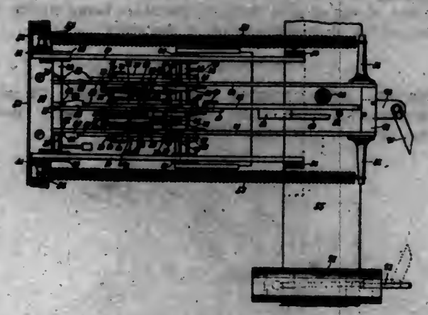
1. Coin-controlled mechanism including an operating shaft having a coin passageway; a coin-carrier having a coin-seat; a chute for conducting the coin from said passageway to said coin-seat; locking means for the coin-carrier arranged to be controlled thereby and to be held in released position upon the lodgment of a coin in said coin-seat; and an operative connection between said operating shaft and said carrier.

1,753,088. VENDING APPARATUS. CLIFTON W. NIXON, New York, N. Y. Filed June 7, 1926. Serial No. 114,113. 10 Claims. (Cl. 312—67.)

5. In vending apparatus, a supporting frame; a movable operating shaft and a fixed shaft carried thereby; a delivery frame forming an open pocket mounted near one end to slide and swing on said fixed shaft; resilient means for positioning said delivery frame; and means on the operating shaft for establishing an operative connection with said delivery frame, substantially as described.



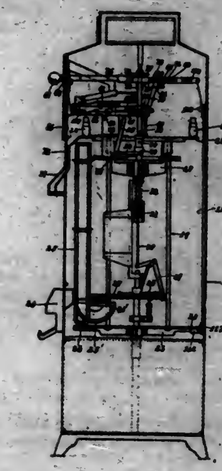
1,753,089. CONTROL MECHANISM FOR COIN-CONTROLLED MACHINES. CLIFTON W. NIXON, New York, N. Y., assignor to Nixon Vending and Change Making Machines, Inc., New York, N. Y., a Corporation of Delaware. Filed June 7, 1927. Serial No. 197,075. 25 Claims. (Cl. 294—78.)



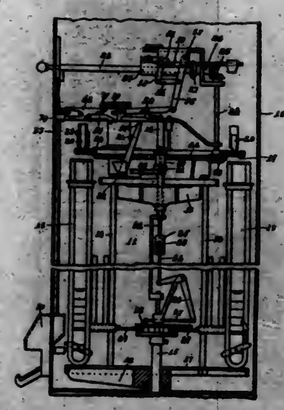
1. Control mechanism of the kind set forth comprising a movable carrier structure; and power transmission means supported thereby including a coin clamping slide and means for varying the position of the slide relatively to the carrier structure consequent upon movement of the carrier structure.

1,753,090. VENDING AND CHANGE-MAKING MACHINE. CLIFTON W. NIXON, New York, N. Y., assignor to Nixon Vending and Change Making Machines, Inc., New York, N. Y., a Corporation of Delaware. Filed June 7, 1927. Serial No. 197,076. 22 Claims. (Cl. 194—2.)

17. In a machine of the kind set forth, means for locking a magazine structure against turning movement comprising a keeper device on the structure; a pivoted spring tensioned lever having means for interlocking with said keeper device and tending normally to effect an interlocking action with said keeper device; a second pivoted spring tensioned lever arranged to cooperate with the first and tending normally to arrest the interlocking tendency thereof; and means for moving the second lever in a direction to permit the first lever to be called into action.



1,753,091. CONTROLLING MECHANISM FOR DISPENSING MACHINES. CLIFTON W. NIXON, New York, N. Y. Filed July 11, 1928, Serial No. 291,824, and in Great Britain July 18, 1927. 18 Claims. (Cl. 194—72.)

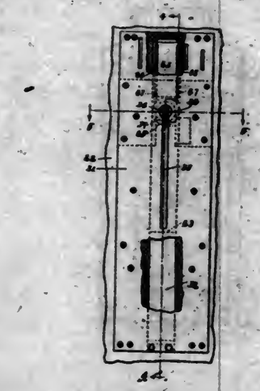


1. In a machine of the character described, an actuating mechanism, a transmission connecter in the form of a carrier, means affording a separable connection for operating said carrier by said mechanism, and means dependent for its action upon the operation of said carrier for separating said separable connection whereby entirely to release said carrier from the control of said mechanism.

1,753,092. HANDLE-CONTROLLED SLOT CLOSURE. CLIFTON W. NIXON, New York, N. Y. Filed June 21, 1928, Serial No. 287,154, and in Great Britain July 13, 1927. 12 Claims. (Cl. 312—35.)

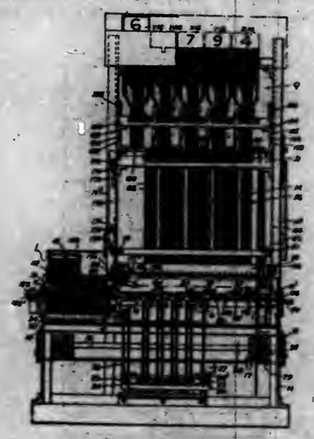
1. In a machine of the character described, consisting of a retaining structure having an elongated opening in which an operating element is arranged for movement, a plate slidably associated with said retaining structure, and

a disk on said operating element having rotary association with said plate, said plate and disk being controlled by



said operating element and arranged to keep said opening closed irrespective of the position of said operating element therein.

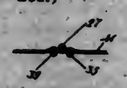
1,753,093. CALCULATING MACHINE. CHARLES DONOVAN ROWLEY, London, and WILLIAM JACKSON, Brighton, England, assignors to The Autokal Syndicate Limited, London, W. I., England, a British Company. Filed July 9, 1925, Serial No. 42,608, and in Great Britain July 28, 1923, and July 17, 1924. 72 Claims. (Cl. 235—61.)



22. A calculating machine for performing multiplication comprising in combination, a plurality of sets of individually movable indicating members which as a whole occupy a fixed position relative to other parts of the apparatus the sets being arranged in groups adapted to function respectively for the several denominations in the indication of partial products, a plurality of sets of rod-like members which can slide individually in the direction of their length and also be swung in a direction transverse to their length, these sets of rod-like members being arranged in a plurality of groups functioning with respect to different denominations, means comprising sets of cams operative to effect a swinging of selected rod-like members, means for moving the sets of rod-like members and the sets of cams relatively so that the cam sets will be positioned adjacent to and capable of being successively operative on the several groups of rod-like members, means for traversing the sets of rod-like members into positions so successively adjacent to the groups of indicating members that selected rod-like members which have been swung by cam operation can register with and when caused to slide can impart movement to indicating members, and key-actuated means whereby selected rod-like members can be caused to slide irrespective of the position occupied by these members due to their traversing, such key-actuated means being operative to control the movements of the cam sets in relation to the rod-like members and also the traversing of the sets of rod-like members and their positioning in relation to the groups of indicating members.

38. In a calculating machine in combination a plurality of sets of rod-like members the rods of each set being longitudinally movable, and corresponding rods in the several sets being capable of registration with respect to the adjacent rods so that longitudinal forward movement of any rod in a rear set will impart forward movement to the corresponding rod in advance thereof, and means whereby any rod in a rear set may be positioned to impart longitudinal movement to a non-corresponding rod in the set next in advance thereof, said means including a transverse member connecting the forward ends of the rods of each rear set and a cam operative to move the said member endwise, so that the forward ends of said rear set of rods are simultaneously displaced laterally.

1,753,094. PAPER CLIP. GUIDO M. SACERDOTE, Bayside, N. Y. Filed Dec. 27, 1927. Serial No. 242,746. 19 Claims. (Cl. 24—261.)



1. A device of the class described, formed from a single piece of metallic wire bent to form two clamping members and an extensible head composed of two members, each connecting one of the sides of one of said clamping members to the opposite side of the other, the sides of each clamping member being in close proximity with corresponding sides of the other, at least part of the clamping portion of one of said clamping members being within the plane of the clamping portion of the other.

1,753,095. ATTACHMENT FOR PIPESTEMS. CHARLES SCHEER, Silverton, Colo. Filed May 13, 1927. Serial No. 191,169. 1 Claim. (Cl. 131—12.)

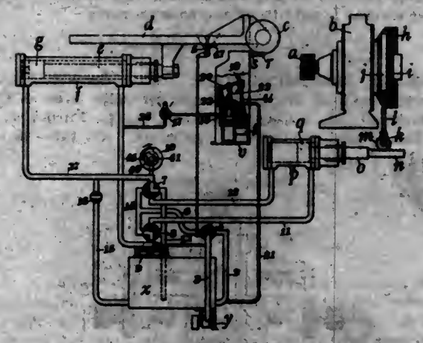


The combination with a mouth piece for a smoking pipe, said mouth piece being provided with an enlarged portion at its outer end, and with a channel extending across the bore of the mouth piece, of a resilient cup-shaped member surrounding and frictionally engaging the enlarged portion, leaving openings into the cup from the ends of the channel, the inner walls of the cup-shaped member being spaced from portions of the mouth piece adjacent to the enlarged portion.

1,753,096. METAL CUTTING AND GRINDING MACHINE. JOHN WILDSMITH SHARRY, Handsworth, Birmingham, England, assignor to The Gear Grinding Company Limited, Birmingham, England. Filed Oct. 5, 1926, Serial No. 139,697, and in Great Britain Nov. 13, 1925. 7 Claims. (Cl. 51—233.)

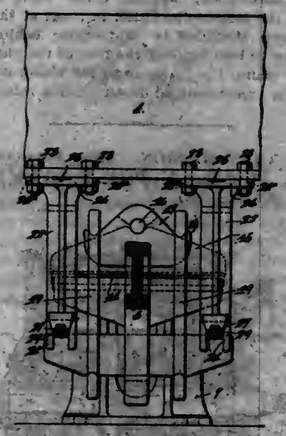
1. A machine of the kind described comprising a plurality of reciprocable members, tool holding and work

holding mechanisms alternately operated by said reciprocable members, a plurality of fluid motors for alternately reciprocating said members, one motor for each member, conduit for supplying fluid under pressure alternately to said motors, a rotary distributing valve in said conduit



for alternately connecting said motors to reciprocate said members, fluid operated means for rotating said valve and escapement means operable by said members alternately for releasing said valve and permitting its actuation by said fluid operated means.

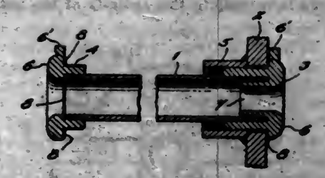
1,753,097. RAILWAY-TRACK SCALE. MORTON HULL STARR, Rutland, Vt., assignor to The Howe Scale Company, Rutland, Vt., a Corporation of Vermont. Filed Dec. 10, 1927. Serial No. 239,167. 2 Claims. (Cl. 265—71.)



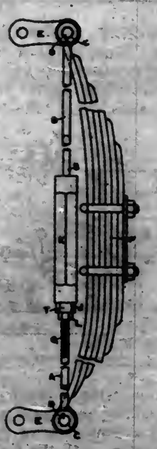
1. In a railway track scale, the combination of a bridge including a beam, and a suspension therefor including a main lever, independent bridge supporting posts depending from the beam and suspended from the main lever, means for adjustably and rigidly securing the posts to the beam, and separate means for independently adjusting the posts vertically relative to the lever.

1,753,098. FLUE BUSHING. JOSEPH C. TATAREK, Jamestown, N. Dak. Filed Sept. 12, 1925. Serial No. 56,094. 1 Claim. (Cl. 285—53.)

In combination with a flue sheet having a plain hole therein and an internally threaded sleeve surrounding the hole and fastened to the inner face of the sheet, the internal diameter of said sleeve being of smaller diameter than the hole, a bushing passing through the hole and externally threaded to engage the sleeve, a flue extending into the bushing and threaded thereto, said bushing having an exterior head, the outer face of which is rounded to be engaged by a beading tool, a wrench engaging projection on said head and a tubular extension formed integral with the head and passing into the end of the flue.



1,753,099. SHOCK-ABSORBING DEVICE FOR MECHANICALLY-PROPELLED VEHICLES. JOHN WILLIAM TURNER, HARVEY WOOD, and EDGAR MANN, Halifax, England. Filed Sept. 10, 1927, Serial No. 218,748, and in Great Britain Sept. 23, 1926. 2 Claims. (Cl. 267—28.)

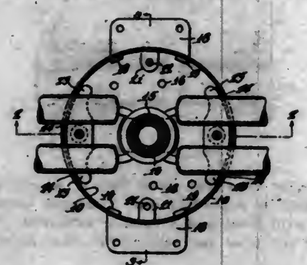


2. A vehicle shock absorber comprising, in combination, a leaf spring, two rods, respectively, connected to opposite ends of the leaf spring, one of said rods having a threaded end portion, and the other having a plunger connected thereto, a casing or barrel having one end engaging said threaded rod, and its other end loosely surrounding said plunger and the other of said rods, a variable means of resistance in the form of two coil springs having different torsional strength confined between said plunger and one end of the casing for absorbing normal and excessive shock imparted to the leaf spring, yieldable means confined between the other end of said casing and said plunger for absorbing the expansive movement of the plunger, said casing being bodily rotatable to adjust the axial length of the rods, and a nut connected to said threaded rod and engaging the outer adjacent end of said casing for maintaining the latter in axial adjusted position.

1,753,100. COMBINATION OUTLET BOX. ERICH WALTER, Atlantic City, N. J. Filed Feb. 6, 1926. Serial No. 86,537. 1 Claim. (Cl. 247—21.)

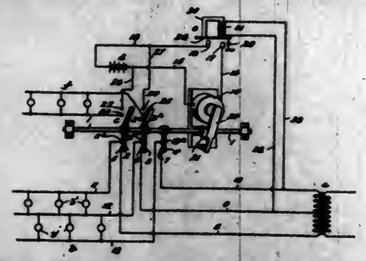
An outlet box comprising a body having a marginal wall provided at diametrical opposite portions with two remote slots and an intermediate slot, said marginal wall of the box adapted to be extended through a building

wall to which the box is to be attached, plates secured in recesses of the building wall and positioned diametrically opposite each other, each of said plates having ears at its opposite ends and provided with a central ear intermediate the end ears, the central intermediate ear extending through the intermediate slot radially of the box and pro-



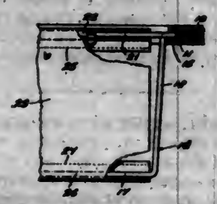
vided with means for attaching a suspending fixture canopy thereto, the end ears passing through the remote slots and being bent over in opposite directions to hold the box rigid in position in the building wall, while an edge of the plate between the ears engages with the outer surface of the wall of the box.

1,753,101. EMERGENCY ELECTRIC-LIGHTING SYSTEM. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed Feb. 20, 1928. Serial No. 255,776. 2 Claims. (Cl. 171—97.)



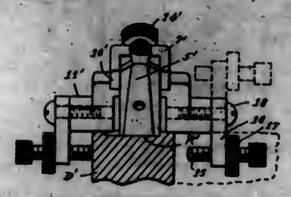
1. The combination with a main current source, an auxiliary current source and main and auxiliary house lighting systems, of a double throw switch normally connecting said main system with the main current source, a magnet adapted, when energized, to move said switch to disconnect the main system from the main current source and connect the auxiliary system with the auxiliary current source, a circuit from the latter source including the coil of said magnet, and a relay controlled by current from the main current source adapted to close the circuit of the magnet when the main current fails and to open the magnet circuit when the current from the main current source is restored.

1,753,102. AWNING. HAROLD E. WILLIAMS, Carthage, Mo. Filed Aug. 23, 1926. Serial No. 131,081. 2 Claims. (Cl. 156—15.)



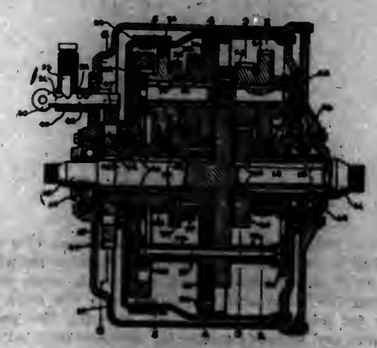
1. In a vehicle sun and rain shield of the non-collapsible type, a frame comprising a tubular back member, and a single rod bent to form a front member substantially parallel to said back member, and rearwardly extending resilient side members, the rear portions of said side members being bent outwardly, then upwardly, and then inwardly, to provide a pair of vertical glass run engaging members and a pair of spaced opposed inturned ends which are slidably received within said tubular back member; and a cover secured to said front and back members.

1,753,103. RECESSING TOOL. JOHN HERBERT ABRAMSON, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a Corporation of Illinois. Filed Dec. 8, 1928. Serial No. 324,656. 4 Claims. (Cl. 145—26.)



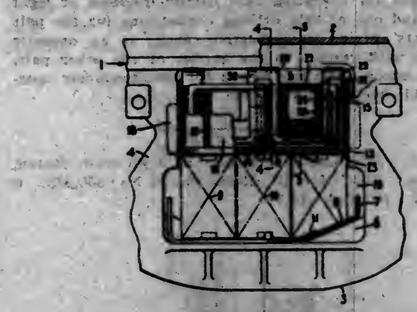
1. A tool for the purposes described comprising a chisel, and a guide frame adjustably and detachably mounted on the chisel, said frame having a part extending therefrom, the free end of which is arranged to ride on the surface of the work adjacent the place to be cut whereby to insure smooth and uniform cutting, and said frame having portions arranged to engage opposite sides of the chisel to keep the frame in proper relation thereto, the adjustable detachable connection between the frame and chisel comprising a screw adjustably threaded in the chisel and extending from the face thereof, said frame having a keyhole slot provided therein for detachable engagement therein of said screw, the said frame being arranged to fulcrum on the face of the chisel in front of said slot, and another screw threaded in said frame behind said slot and arranged to bear against the face of the chisel whereby not only to clamp the frame onto the chisel but maintain the same in a predetermined depth guiding relation thereto.

1,753,104. TRANSMISSION. ZENO ALEXANDER, Kansas City, Mo. Filed June 17, 1929. Serial No. 371,540. 10 Claims. (Cl. 74—84.)



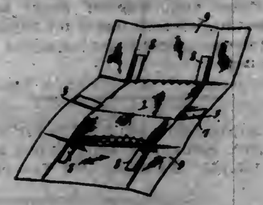
1. A transmission comprising driving and driven members, an epicyclic gear train operatively connecting the two to provide for relative changes of speed between the same, an inert member operatively connected with an element of said train to be accelerated by it beyond the speed of either member upon any relative change of speed between the two, and means to arrest the movement of said element in one direction but permit it in the other.

1,753,105. RAILWAY TRUCK. DONALD S. BARROWS, Rochester, N. Y. Filed June 14, 1928. Serial No. 285,471. 15 Claims. (Cl. 105—187.)



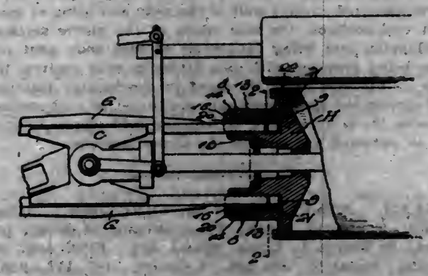
1. A railway truck having a side frame formed with compression and tension members, bolster guide columns connecting intermediate portions of said members, springs disposed between said columns, a spring cap associated with said frame and formed with pockets adjacent and between the columns thereof, swinging means suspended in said pockets, and a bolster supported on said swinging means and adapted to move laterally thereon.

1,753,106. SURGICAL DRESSING. CLARENCE W. BARTH, Newburgh, N. Y. Filed Feb. 10, 1928. Serial No. 253,386. 3 Claims. (Cl. 128—268.)



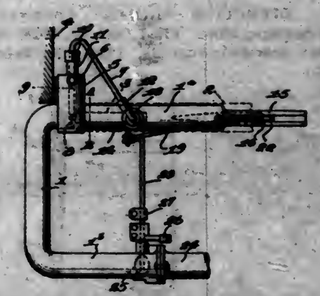
1. A surgical dressing comprising a multiply body of gauze, means for securing such body in position over a wound including a plurality of relatively narrow members permanently connected to the body and projecting from two opposite edges thereof, one face of each of said projecting portions being provided with an adhesive coating, and a readily detachably covering for the adhesive coated faces of said projecting portions, for the purpose described.

1,753,107. CROSSHEAD-GUIDE ANCHOR. CLARENCE JAMES BLACK, North Little Rock, Ark. Filed May 12, 1928. Serial No. 277,309. 1 Claim. (Cl. 287—103.)



An assemblage of the class described comprising a body having an elongated socket of rectangular cross section, said body being formed also with transversely alined slots opening through two opposed sides of said socket, a third side of said socket being beveled and disposed in outwardly diverging relation with the fourth side thereof, a block of rectangular cross-section having a longitudinal groove in one side, said groove having a dove-tail shaped inner end, a bar having one end snugly received in said groove, the extremity of said end of the bar being of dove-tail shape for interlocking engagement with the dove-tail shaped inner end of the groove and interlocked with said block, said block and bar end being disposed in said socket with said bar end in contact with said fourth side of said socket, the side of said block opposite said groove being beveled and contacting with said beveled third side of said socket, said beveled side of said block being provided with an outwardly facing shoulder near the inner ends of said slots, and a transverse wedge in said slots abutting said shoulder to hold said block snugly in the socket.

1,753,108. CARBURETOR. AAGE NIELS BONDESEN, Copenhagen, Denmark. Filed Nov. 30, 1925. Serial No. 72,354. 1 Claim. (Cl. 261—52.)

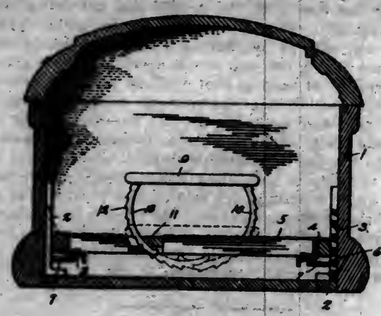


A petrol carburetor for internal combustion engines, comprising a U-shaped carburetor pipe having one branch for the inlet of fuel and air, provided with an elongated slot for arrangement against and alongside the exhaust pipe of the engine so that part of the surface of the pipe is exposed to the interior of the branch, an inlet jet for fuel opposite the slot, an inlet for air, a valve body to control said air inlet, the other branch of said pipe being arranged to be connected to the motor inlet manifold and being provided with a mixture throttle valve, said air valve and said mixture throttle valve being operatively connected together so that when the air and throttle valves are open motor suction draws fuel through the inlet as a fine spray and atomizes same and also draws in air which together with the fuel is heated due to the exposed surface of the exhaust pipe, the said interconnected valve body and throttle providing a means whereby the supply of air is regulated to conform with the consumption of fuel, and said branch having a baffle arranged therein opposite the elongated slot, and against which baffle the fuel impinges, thus being further atomized before passing through the carburetor pipe to the motor.

1,753,109. ADJUSTABLE COT AND HEADREST FOR BURIAL CASKETS. JAMES B. COLE, Memphis, Tenn. Filed Nov. 12, 1928. Serial No. 318,844. 1 Claim. (Cl. 27—12.)

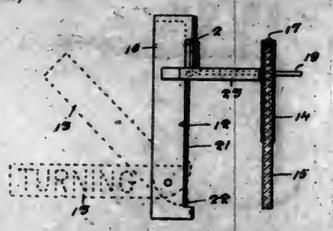
The combination with a casket, of supporting plates, a cot mounted for up and down adjustment between the plates, means carried by the cot for engaging the plates to support the cot at a desired elevation within the casket, said means and plates cooperating to permit upward movement of the cot relative to the casket but to prevent downward movement of said cot, a head rest, opposed arcuate

toothed strips pivotally connected to the head rest and slidable within one end portion of the cot, and means cooperating with the toothed strips for supporting the



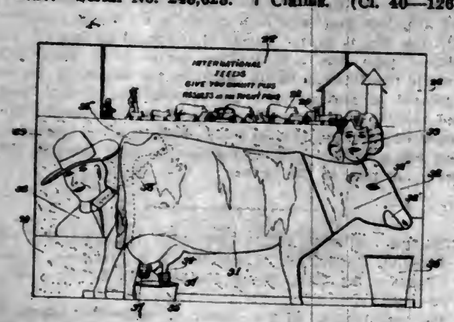
head rest at a desired elevation relative to the cot, said strips being foldable toward each other and within the cot when the head rest is lowered.

1,753,110. DIRECTION SIGNAL. CONWAY DARNEY, Crystal Springs, Miss. Filed Oct. 31, 1928, Serial No. 316,208. Renewed Aug. 24, 1929. 4 Claims. (Cl. 116—52.)



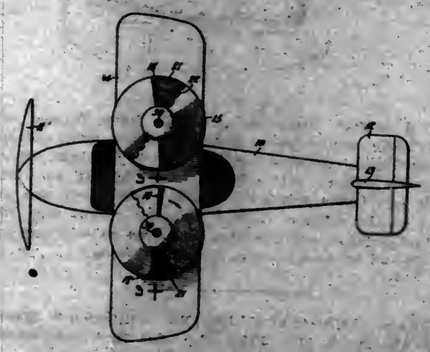
1. In a direction signal for automobiles, a signal device, a housing for said device, means to attach the housing to the outside of an automobile, a pivotally mounted operating rod having one end operatively connected with the signal device and its opposite end extending into the automobile, and means included in the housing to limit pivotal movement of the operating rod in opposite directions to regulate the degree of movement of the signal device and provide different signals.

1,753,111. DEVICE FOR DEPICTING RURAL SCENES. CHARLES S. DERNBACH, Wausau, Wis. Filed Dec. 30, 1927. Serial No. 243,623. 7 Claims. (Cl. 40—126.)



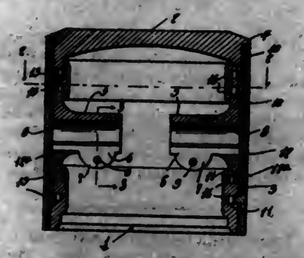
1. In a device for depicting rural scenes a pair of sidewise opposed, travelling endless carriers, one provided with means to represent spaced vehicles and the other provided with means to stimulate live stock and a person, a travelling endless carrier disposed at right angles with respect to the other of said carriers and provided with advertising matter, driving connections for the first mentioned carriers, means operated from one of said driving connections for operating that carrier disposed at right angles, and one of said driving connections for the pair of carriers driving its respective carrier in an opposite direction with respect to the carrier of the other pair, and a common operating means for simultaneously operating said driving connections.

1,753,112. AIRPLANE. GEORGE R. ENGLEDOW, Raton, N. Mex. Filed Mar. 27, 1929. Serial No. 350,383. 0 Claims. (Cl. 244—15.)



1. A device of the character described, including a rotating apertured disk, deflector means associated adjacent the apertures thereof, means for adjusting the size of said apertures, and means for adjusting the angle of said deflector means.

1,753,113. RINGLESS SELF-EXPANDING PISTON. GEORGE FLOYD, Portsmouth, Ohio. Filed July 29, 1926. Serial No. 125,765. 2 Claims. (Cl. 74—108.)



1. A piston comprising a hollow cylindrical body provided with circumferential grooves in its lateral wall, a sleeve mounted on said wall of the body and being of more than two sections, the side edges of the sleeve sections overlapping and being tangential of said body said sections being provided with ribs fitting in said grooves, the ends of the ribs being arranged in overlapping relation, and corrugated spring elements positioned in said grooves between the bottom walls thereof and said ribs and exerting an outward pressure on the sleeve sections.

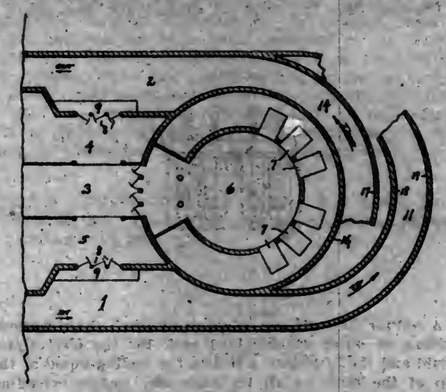
1,753,114. SEWING-MACHINE THREADER. ALLAN MCC. FLUHARTY, Miami, Fla., assignor of fifteen per cent to George L. Dixon, Miami, Fla. Filed Aug. 22, 1928. Serial No. 301,360. 4 Claims. (Cl. 112—225.)

1. In a sewing machine, a needle-threader comprising a swingably mounted bar having at the end thereof a semi-conically shaped member, a plate hingedly connected to the bar and provided with a semi-conically shaped member adapted to be alined with the first mentioned semi-conically shaped member to provide a guide for a thread to the eye of a needle, the hinged plate being movable away from the bar to form a space between the semi-conically shaped members for releasing the thread after



the needle has been threaded, and cooperating means on the bar and hinged plate for gripping the needle and for aligning the thread guide with the eye of said needle, the means on the hinged plate being movable away from the means on the bar to release the thread from the threader and the bar from the needle when the hinged plate is moved away from the bar.

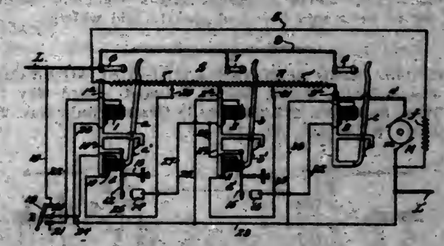
1,753,115. RAMP STRUCTURE. WILLIAM F. GOODRICH, Detroit, Mich. Filed Mar. 5, 1928. Serial No. 259,065. 7 Claims. (Cl. 20—1.18.)



1. A pair of ramps, comprising substantially continuously non-intersecting spirally arranged surfaces oppositely inclined and having spaced parallel axes within the curvatures of the ramps.

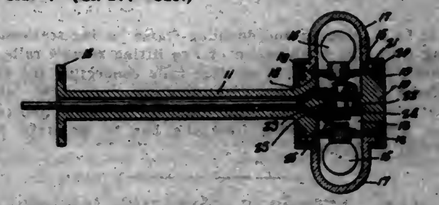
1,753,116. ELECTRIC-MOTOR STARTER. WILLIAM T. HOLMES, Baltimore, Md.; Daisy N. Holmes, executrix of said William T. Holmes, deceased, assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed Jan. 7, 1928. Serial No. 245,156. 5 Claims. (Cl. 172—288.)

1. The combination with a supply circuit, of a motor starter comprising a starting resistance, main and auxiliary contactors, magnets for closing the contactors, said magnets having circuits independent of the armature circuit of the motor, a relay comprising a switch member adapted to close the circuit of the magnet of the auxiliary contactor and a magnet having windings in parallel with



part of the resistance for controlling the movement of said member, said main contactor adapted to normally hold said member close to the relay magnet and to release said member and connect the same to the supply circuit when said main contactor closes.

1,753,117. SIGNAL DEVICE. ROBERT HOSKING, Berkley, Va. Filed Jan. 4, 1929. Serial No. 330,247. 1 Claim. (Cl. 177—329.)



In a signal lamp, a body having an opening therethrough, means to mount the body, an electric bulb extending outwardly from the opening at each end of the body, a globe for the bulb, an annular rib extending within the body opening at right angles to the axis of said opening, insulated plates secured upon opposite sides of the rib, binding posts extending through the plates and providing securing means for said plates, a conductor wire secured to one end of each post, and a spring contact secured to the other end of each post for engagement by each of the bulbs.

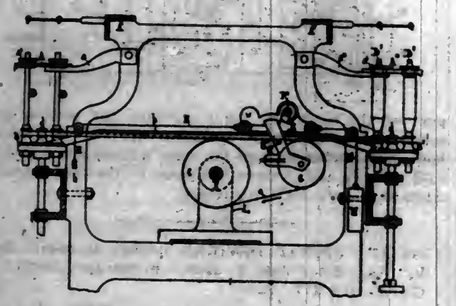
1,753,118. CONTROLLING PRESSURE GAUGE. SVEN A. F. JOHANSSON and ARVID O. DAHLSTRÖM, Stockholm, Sweden. Filed July 20, 1927, Serial No. 207,236, and in Sweden Apr. 23, 1927. 1 Claim. (Cl. 50—8.)



A pressure controlling gauge having a body and an air inlet and an air outlet, a valve controlling said inlet, a piston having a bore and air passage opening into said bore from the opposite ends of said piston, a spring having one end engaging said piston, an internally threaded cylinder engaging the opposite end of said spring, a regulating element rotatably mounted in one end of said body, a threaded extension on said regulating element cooperating with said threaded cylinder, a valve in each end of said piston bore normally closing said air passages, a spring extending between said valves for seating the same, a spindle connecting one of said piston valves with said inlet valve, a stem on the second of said piston valves projecting from said piston, and a whistle in said regulating

element having a projecting end adapted to engage the said stem of said second piston valve and unseat the same when the pressure in said body rises to a predetermined point and moves said piston against the action of the spring engaging the one end of the piston, said inlet valve being thereby moved to permit only a negligible amount of air to enter said bore and operate said whistle.

1,753,119. RING SPINNING AND DOUBLING FRAME. JAMES JOLLY, Deane, Bolton, England. Filed May 11, 1928, Serial No. 277,056, and in Great Britain Nov. 29, 1927. 9 Claims. (Cl. 118—47.)

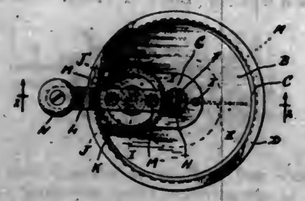


3. In a spinning and doubling frame having stationary ring rails, the combination of two lifting spindle rails, a plurality of transverse carriage rails connecting the two spindle rails, carriages traversing the transverse rails, one to each rail, a bar connecting the carriages, and tension pulleys suspended from the bar to maintain the driving bands taut.

1,753,120. DYESTUFFS CONTAINING CHROMIUM. HANS KIMMERER, Mannheim, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 13, 1928, Serial No. 269,875, and in Germany May 14, 1927. 3 Claims. (Cl. 260—12.)

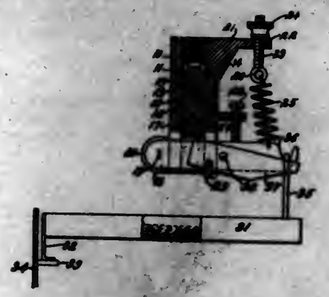
1. As new articles of manufacture, chromiferous dyestuffs fast to washing, milling and light, which are the chromium compounds of the azo-dyestuffs from diazotized o-aminonaphthols and sulfo-phenyl-methyl-pyrazolones.

1,753,121. MIXING BOWL. ROBERT M. KERR, Detroit, Mich., assignor to Detroit Dental Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 25, 1929. Serial No. 349,841. 2 Claims. (Cl. 259—108.)



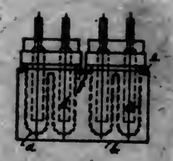
1. In a mixing bowl comprising a flexible bowl proper having a flaring mouth, a rigid cover forming a re-enforcement for said bowl and having a flaring portion for fitting within said mouth, a mixing blade beneath said cover of a contour substantially corresponding to that of the inner wall of the bowl, a shaft on which said blade is mounted projecting upward through said cover, a crank handle eccentric to said shaft and a step-up gearing from said crank handle to said shaft arranged parallel to the plane of said cover and within the recess formed by said flaring flange.

1,753,122. WATER FOUNTAIN. REUBEN KIELSMEIER, Baldwin Park, Calif. Filed Nov. 16, 1928. Serial No. 319,917. 5 Claims. (Cl. 137—68.)



1. An automatic valve comprising a valve body having inlet and exhaust ports at its ends, a valve member carried within the inlet port, said body having a communicating passage between the ports, a stem for the valve extending through the passage into the exhaust port, a block mounted within the exhaust port, a movable arm adapted to retain the block in juxtaposition to the stem, an operating lever carried by the arm to actuate the block to unseat the valve, and a water pan suspended from the lever for actuating the lever and adapted to move said arm when the lever is moved a predetermined amount to permit seating of the valve.

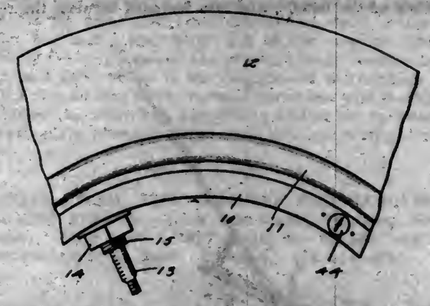
1,753,123. CELL FOR ELECTROLYZING SOLUTIONS OF ALKALI CHLORIDES. EDOUARD KREBS, Oslo, Norway. Filed May 4, 1927, Serial No. 188,795, and in Germany Mar. 15, 1926. 1 Claim. (Cl. 204—58.)



A cell for electrolyzing solutions of alkali chlorides comprising an outer unsubdivided tank for the electrolyzed liquid and the hydrogen, a trough for sealing liquid at the top of the tank on all its sides and trough extending across the tank and connected to the aforesaid trough, and electrolyzing units in the tank each consisting of an anode carrying cell top, a cathode and a diaphragm adjacent thereto, said cathode and diaphragm folded to form two adjacent pockets in which two anodes are supported from said top, said units being supported by the trough in the gas space of the outer tank.

1,753,124. AUTOMOBILE TIRE LOCK. JOSEPH LAURO, South Miami, Fla., assignor of one-half to Raphael Ragozzino, Miami, Fla. Filed Aug. 21, 1928. Serial No. 301,137. 3 Claims. (Cl. 70—90.)

1. In combination with a rim, a tire having a tube projecting therethrough, a securing element engaging said tube, locking means carried by the rim, means operable to place the locking means in and out of engagement with



said tube consisting of a locking member, relatively movable slides, and levers connected to said locking member and to said slides.

1,753,125. GARTER. MAX LEDERMAN, New York, N. Y. Filed Aug. 23, 1928. Serial No. 301,597. 1 Claim. (Cl. 241—6.)



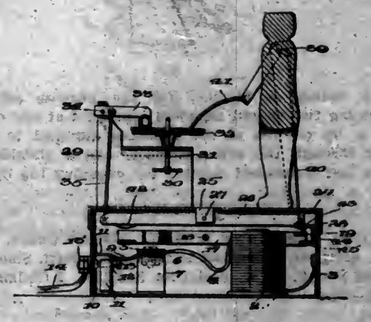
A garter, including a substantially rectangular body of cloth having concave sides, a stud connected with said body near each of two of the corners of the body, hose supporting members connected to the opposite corners of the body, an encircling band connected to one corner of the body and disengageably connected to the stud at the opposite corner, and a shirt-holding member connected to each of said studs, extending in an opposite direction to the hose supporting members, each of said shirt-holding members having means for gripping part of the shirt, for preventing the shirt from moving upward.

1,753,126. GUIDE DEVICE. ARTHUR LEE LIGON, Fort Stockton, Tex. Filed Feb. 23, 1928. Serial No. 256,369. 7 Claims. (Cl. 308—3.)



1. A guide device for reciprocating members comprising a guide yoke formed to provide spaced parallel guide members interconnected at one of the ends thereof and supported at their interconnected ends from one side of a reciprocating member, and a fixed part engaged by said guide member for reciprocating movement relative thereto.

1,753,127. ELECTRIC TOY. ARD L. MACKLIN, Detroit, Mich. Filed Apr. 22, 1927. Serial No. 185,861. 8 Claims. (Cl. 46—49.)

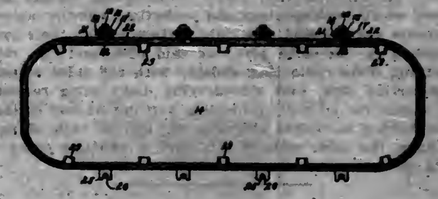


3. An electric toy including a casing, electro-magnetic actuating means mounted in said casing, a cover removably mounted on the casing, a movable figure carried by the cover, an armature carried by the cover in position to be actuated by the electro-magnetic actuating means, and means positively connecting said armature with the movable figure.

1,753,128. METHOD OF RECOVERING ALKALI. RALPH H. MCKEE, New York, N. Y. Filed Oct. 24, 1924. Serial No. 745,712. 4 Claims. (Cl. 23—48.)

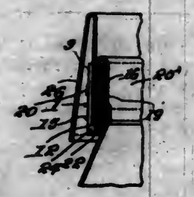
3. A process of the character described which comprises removing the excess water by filtration from a mixture of black ash residue and calcium carbonate sludge, and passing the resulting product through a heated zone.

1,753,129. DETACHABLE CONNECTION AND CLAMP. WILLIAM M. MOLDEN, Lake Charles, La., assignor of one-half to Earl C. Reid, Lake Charles, La. Filed Apr. 4, 1928. Serial No. 267,376. 1 Claim. (Cl. 121—194.)



A seal for the oil pans of engine crank cases comprising a channel member seated upon its closed side on the upper edge of the pan to accommodate the depending flange of the crank case within its open side, a packing carried within the open side of the channel engaging said flange, and spouts formed upon the inner side walls of the channel to drain the lubricant from the flange and packing within the pan.

1,753,130. COLLAR BUTTON. DANIEL NACHTIGAL, Hibbing, Minn. Filed May 31, 1929. Serial No. 367,545. 3 Claims. (Cl. 24—100.5.)



1. A button or fastener for the purpose set forth, comprising two spaced members connected at one of their ends, a lip on one of the members designed to be received through the other member, and a slidable latch on the last mentioned member for engaging the lip.

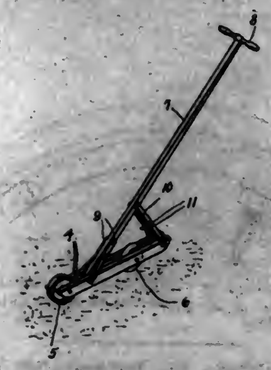
1,753,131. RESILIENT WHEEL. GEORGE ORBIN, Smock, Pa., assignor of one-half to Nick Franchetti, Smock, Pa. Filed Nov. 9, 1928. Serial No. 318,233. 2 Claims. (Cl. 152—28.)



2. A resilient wheel comprising a hub-carried disk having openings spaced outwardly from its center and spaced apart circumferentially, coiled compression springs disposed within said openings and projecting laterally beyond opposite sides of said disk, said springs having their axes disposed in the same plane as said disk, and two rim-carrying disks contacting slidably with the sides of said hub-carried disk, said rim-carrying disks being recessed to receive the laterally projecting portions of said springs and having shoulders abutting one end of each of said springs, the other ends of said springs abutting edges of said openings.

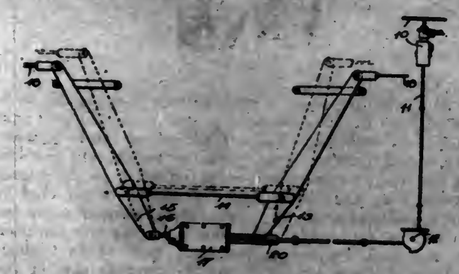
1,753,132. EDGE TRIMMER. ADAM RUEBEL, Ithaca, N. Y. Filed May 21, 1928. Serial No. 279,397. 1 Claim. (Cl. 97—227.)

In a lawn edging implement of the class described, a frame embodying a pair of spaced parallel runners, a surface engaging roller rotatably mounted between the forward ends of the runners, a rotary cutting disc mounted between the intermediate portions of the runners, an upwardly and rearwardly inclined handle fastened at its lower ends between the runners at a point intermediate the roller and cutting disc, together with a downwardly and rearwardly inclined brace fastened to the intermediate portion of the handle, and also fastened between the rear



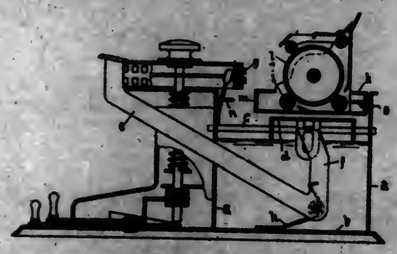
ends of the runners at a point in rearwardly spaced relation from the cutting disc, whereby the rear ends of the runners may be urged into ground engaging contact constituting a guide for the cutting disc.

1,753,133. HAND BRAKE. WILLIAM H. SAUVAGE, New York, N. Y., assignor, by mesne assignments, to Royal Railway Improvements Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 9, 1925. Serial No. 7,960. 31 Claims. (Cl. 188—198.)



28. In combination with the foundation brake rigging of a railway vehicle having truck brake levers and cylinder levers, a manually actuated regulator positioned at approximately one end of the car, and connecting means from said regulator to one of said cylinder levers.

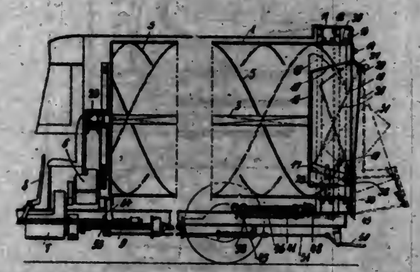
1,753,134. FEED DEVICE FOR THE CARRIAGE OF TYPEWRITING MACHINES. MAX SCHMID, Nuremberg, Germany. Filed Jan. 15, 1929, Serial No. 332,648, and in Germany Apr. 13, 1928. 1 Claim. (Cl. 197—89.)



A feed device for the carriage of typewriting machines in which the platen is moved for printing the types towards

the types arranged on an endless rubber band or the like, comprising in combination with the machine frame the type disc and the platen, a paper carriage having perforations in its front and rear longitudinal walls, a front wedge pin, and a rear wedge pin on the machine frame opposite the long sides of the paper carriage co-operating with said perforations in the long side of the carriage in such a manner that at the forward movement said carriage is shifted the width of a perforation and at the backward movement the distance between two adjacent perforations.

1,753,135. DOOR FOR VEHICLES FOR REMOVING HOUSE REFUSE. PAUL SCHUBERTH, Augsburg, Germany. Filed June 1, 1927, Serial No. 195,643, and in Germany Oct. 21, 1926. 4 Claims. (Cl. 214—67.)



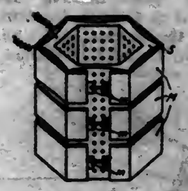
2. In power driven vehicles for removing house refuse, comprising a rotatable drum, a lid suspended, so that it bears against the rear open end of said drum, a conical projection on said lid, an outer closing wall on said lid forming a closed hollow space in the said conical projection of said lid and having an aperture, a door suspended in said aperture so that it can be pressed into said hollow space in the lid, a packing ring on the inner side of said closing wall of the lid, a sliding ring on the rear end of said drum the outer edge of said packing ring fixed on the lid and its inner edge turned towards said sliding ring of said drum, means for raising the inner edge of said packing ring, and means for pressing said lid against the open end of said drum.

1,753,136. MOUNTING DEVICE FOR SEED PLANTERS. PETER SCRIMGER, Detroit, Mich. Filed Jan. 20, 1926. Serial No. 82,433. 3 Claims. (Cl. 111—89.)



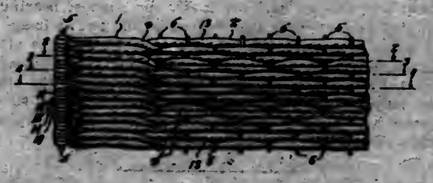
1. In a device of the character described, the combination with a planter having an upwardly extending pivotally mounted operating lever adapted to be reciprocated to discharge seeds therefrom, of a vehicle having an axle and wheels, a cam rotatable with said wheels, a rock shaft, means for supporting said rock shaft from the axle of said vehicle, means for oscillating said rock shaft as said cam rotates, an arm fixed on said rock shaft, a support pivotally arranged on the extremity of said arm, said planter held pivotally by said support to swing back on engaging the ground and adapted to be moved up and down by the movement of said rock shaft, a fixed crossbar against which the operating rod rests and which forces said rod forward as the planter swings back to discharge seeds therefrom, and spring means for tending to hold said planter in a vertical position.

1,753,137. ELECTROSTATIC LOUD-SPEAKER. GEORG SEIBT, Berlin-Schoneberg, Germany. Filed Aug. 8, 1927, Serial No. 211,544, and in Germany Aug. 12, 1926. 7 Claims. (Cl. 179—111.)



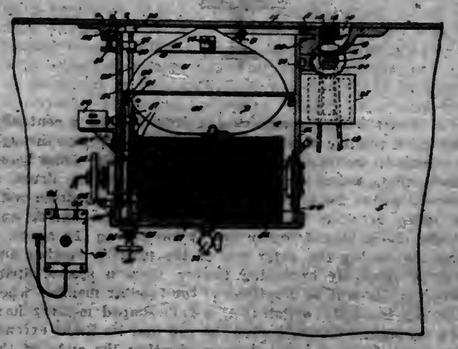
1. An electrostatic loud speaker, comprising a fixed prism, and vibrating coverings covering the external faces of said fixed prism.

1,753,138. PADDING WITH SELVEDGE. EUGENE N. SITTON, La France, S. C. Filed May 20, 1929. Serial No. 364,593. 3 Claims. (Cl. 139—383.)



1. A padding for use on the rollers of ironing machines comprising a thickly woven padding formed of warp threads, a plurality of weft strands arranged one over the other with a plain weave, said strands having an end portion of substantial length through which no warp threads cross to provide an end portion of less thickness than the main body of the padding, the ends of the respective weft threads each being looped, and having a single warp strand extending through said loop.

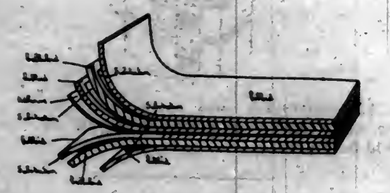
1,753,139. SIGNAL AND COMMUNICATION MECHANISM FOR SUNKEN SUBMARINES. HERMAN C. STANGER, Fort Ann, N. Y. Filed July 13, 1928. Serial No. 292,431. 9 Claims. (Cl. 114—16.5.)



1. In combination with a submarine, of a casing in the submarine, a reel and a buoy housed in the casing, a cable wound about the reel and connected with the buoy, a cover

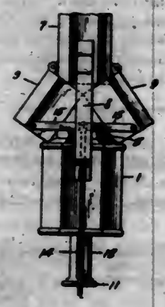
for the casing forming part of the wall of the submarine, means for hingedly mounting the cover, chain and sprocket means for opening and closing the cover, rods rotatably mounted in the casing and accessible interiorly thereof and threadedly engageable with the cover to lock the same in a closed position, means for limiting the upward and downward sliding movement of the rod.

1,753,140. MULTICOLOR CINEMATOGRAPH AND OTHER FILMS. JOHN EDWARD THORNTON, London, England, assignor to John Owden O'Brien, Manchester, England. Filed May 5, 1924, Serial No. 711,255, and in Great Britain May 18, 1923. 5 Claims. (Cl. 88—16.4.)



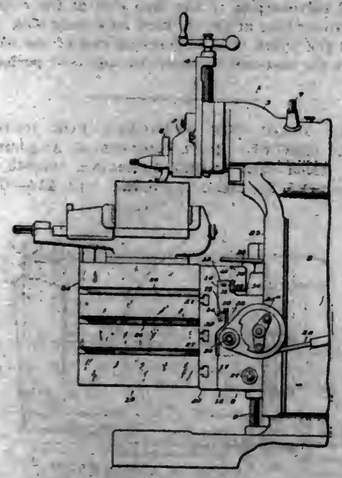
1. A multi-color picture-positive having four component images in two half pictures and comprising two thin transparent supports of half thickness, one support bearing a half picture containing two component images, an image in one color upon each side of said support, and the other support bearing a half picture containing two component images, an image in one color upon each side of the other thin support, the two transparent supports being superimposed with the two half pictures assembled and disposed within one picture area and cemented together.

1,753,141. GAS BURNER. FLOYD WYATT, Whittenberg, Tex. Filed Dec. 26, 1928. Serial No. 328,561. 3 Claims. (Cl. 158—99.)



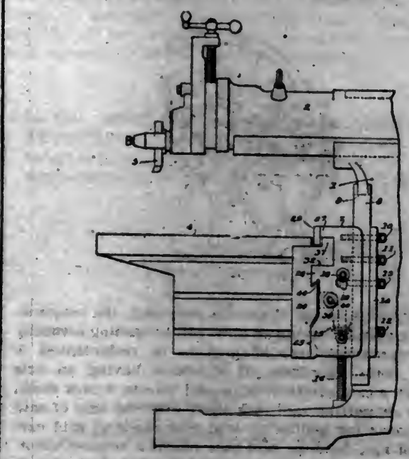
3. A gas burner comprising a drum having a centrally arranged tubular part passing longitudinally therethrough to form an air passage, the inner end of the drum being perforated, means for introducing gas into the drum, a barrel, means for connecting the barrel to the drum with a space between the adjacent ends of the barrel and drum, doors hinged to the barrel for closing the space, a cap for closing the outer end of the tubular member and having inwardly extending fingers thereon spaced apart whereby air will be admitted to the tubular member when the cap is partly withdrawn, a yoke-shaped member having its bight connected with the cap and its limbs extending over the doors and links connecting the ends of the limbs with the doors whereby the doors and cap will be moved to open position when the yoke-shaped member is pulled outwardly.

1,753,142. GUIDE RAIL FOR SHAPING MACHINE WORKTABLES. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Jan. 9, 1925. Serial No. 1,384. 8 Claims. (Cl. 90—38.)



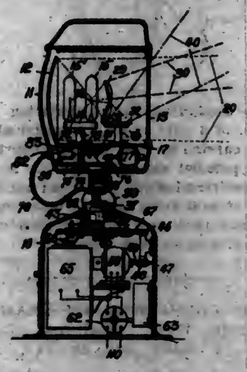
8. In a shaper having a reciprocating tool-carrying ram and a work-table, the combination comprising a cross-rail having at its upper edge a solid undivided guide plate and at its lower edge a thrust bearing plate, said guide plate affording, at its top, bottom and rear sides, bearing surfaces adapted respectively to support the weight of the worktable and to prevent outward and upward movement thereof and said thrust bearing plate preventing inward movement of the lower part of said table; and a screw shaft located wholly at one side of said guide plate and between the guide plate and said thrust bearing plate for moving the table along the rail.

1,753,143. SHAPING-MACHINE WORK-TABLE CROSS-RAIL GUIDE. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Oct. 29, 1927. Serial No. 229,542. 12 Claims. (Cl. 90—38.)



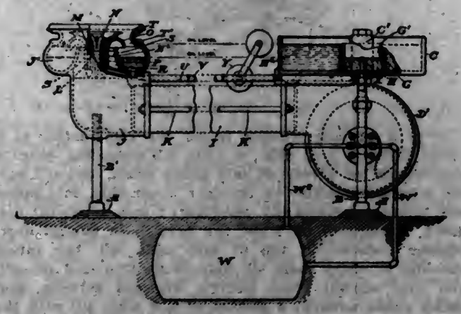
2. A machine tool combining a cross-rail; a table horizontally adjustable therealong, said rail comprising a lower substantially vertical bearing plate, a horizontally projecting ledge affording above the centerline of said table a relatively wide table seat, and an overhanging member projecting downwardly toward said ledge; a portion on said table engaging said bearing plate, said table also having portions adapted to rest upon said table seat and to project upwardly behind and engage said overhanging member.

1,753,144. UNATTENDED BEACON. PRESTON R. BASSETT, Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., a Corporation of New York. Filed June 20, 1928. Serial No. 646,651. 8 Claims. (Cl. 240—1.)



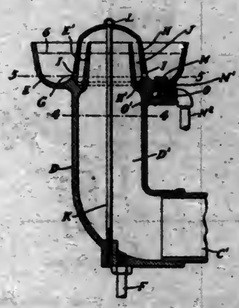
1. In a beacon, a source of light, means for reflecting all of the light at the rear of said source to form a beam, and a plurality of condensers for utilising various portions of the light at the front of said source to project a plurality of beams at progressively increasing angles to said first beam.

1,753,145. OIL FEEDING AND BURNING APPARATUS. ALBERT E. GRANT, New York, N. Y., assignor to Grant Heat Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 11, 1928. Serial No. 253,581. 4 Claims. (Cl. 158—92.)



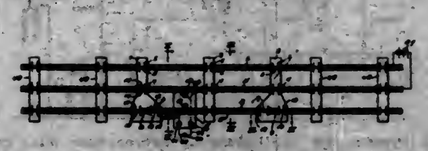
1. A device of the character described comprising a motor, an air pump and two oil pumps driven thereby, a large burner and a small burner located adjacent thereto which serves to generate heat and also as a pilot light for the large burner, a chamber for oil in communication with the large burner and a chamber for oil in communication with the small burner; the level of the oil in said first chamber being maintained above that of the level in the second named chamber, one of said pumps acting to supply oil to both of said chambers and one acting to return the surplus oil from said chambers to the source of supply.

1,753,146. OIL-BURNING APPARATUS. ALBERT E. GRANT, New York, N. Y., assignor to Grant Heat Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 15, 1928. Serial No. 261,740. 6 Claims. (Cl. 158—92.)



3. A burner-head of the character described comprising a casing having a central passage for air extending to the top thereof, and having an uncovered annular combustion chamber for oil surrounding said passage, the top edge of which is located in alignment with the upper end of said air passage, a cap covering said central passage the inner sides of which contribute to form an annular passage for air leading to said annular chamber near the lower end thereof; said construction embodying a plurality of oil passages leading thru the bottom of said annular chamber into same, and porous heat-refractory material thru which the oil must pass located in said passages to serve as wicks and serving to prevent sudden excessive quantity of oil from flowing into said combustion chamber.

1,753,147. TOY TRACKAGE. LEVIN GESSFORD HANDY, Mountain View, N. J. Filed Sept. 18, 1926. Serial No. 136,359. 9 Claims. (Cl. 246—31.)

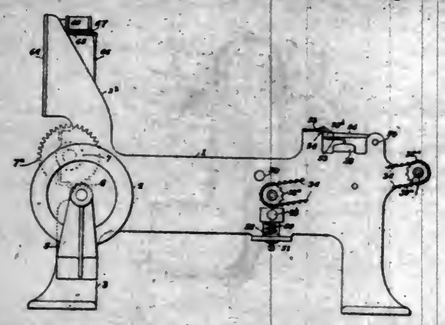


1. As an article of manufacture, an electric toy track section intended to be attached to or removed from track forming relation with the other electric toy track sections in the usual manner, said section being made up of spaced wheel bearing rails and an intermediate insulated third rail with cross ties by which all of the rails are mechanically connected together for unitary handling, all of the rails having means at their ends by which they may be readily mechanically connected in track forming relation with adjacent ends of other toy track sections, and one of the wheel bearing rails having a portion of its length electrically connected by means of said cross ties with the other wheel bearing rail but having another portion of its length insulated from the first portion and from said other wheel bearing rail adapted thereby to serve as a contact to be engaged by the wheels of a passing train for controlling a shunt circuit in parallel with the train circuit.

1,753,148. PERFORATING MACHINE AND THE LIKE. ROBERT HEAD, Yonkers, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed July 29, 1924. Serial No. 728,856. 19 Claims. (Cl. 164—115.)

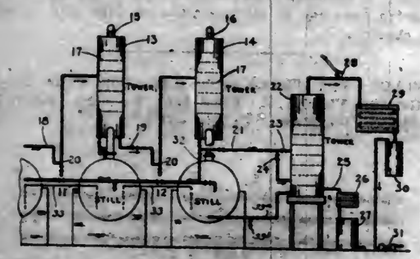
6. In combination, means for supporting and driving a perforated master record, a conically pointed selector

finger, said perforations of the master record and said conical point being of such relative size that the point can pass well into but not wholly through said perforations, said conically pointed selector finger being supported to trail longitudinally along the traveling record



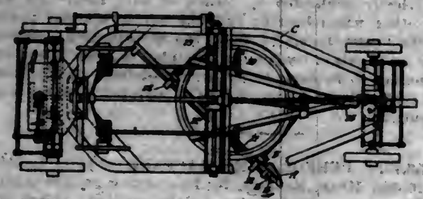
in contact therewith and, as it trails, to be movable to enter and exit from successive aligned perforations in said master record and also to be freely movable laterally in following said record to enable said conical point to enter fully into the several perforations of said record so as to be in effect supported thereby.

1,753,149. DISTILLATION OF HYDROCARBONS. HENRY H. HEWETSON, Elizabeth, N. J., assignor to Standard Oil Development Company, New York, N. Y., a Corporation of Delaware. Filed June 25, 1923. Serial No. 647,515. 8 Claims. (Cl. 196—99.)



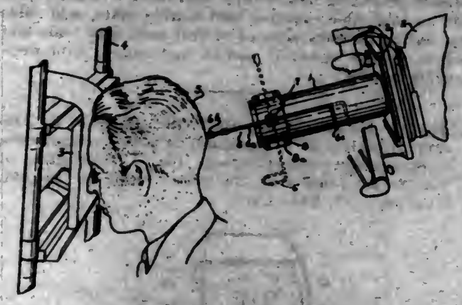
6. Process for distillation of hydrocarbon oils, comprising flowing an oil through a series of distilling zones, passing vapor from each zone to a corresponding rectification zone wherein liquid and vapor fractions are produced, passing the liquid fractions to the next rectification zone and rectifying the liquid therein.

1,753,150. DITCH CUTTER FOR GRADERS. DANIEL C. HINDS, Sioux Falls, S. Dak., and ORVILLE Q. HINDS, Chicago, Ill., assignors to Ryan Manufacturing Corporation, Chicago, Ill., a Corporation of Illinois. Filed Apr. 23, 1926. Serial No. 104,059. 5 Claims. (Cl. 37—143.)



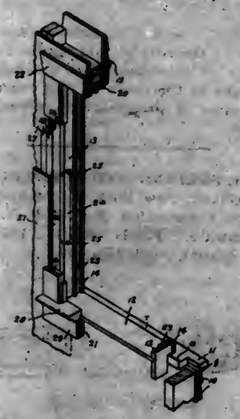
1. A ditch shaper for graders including a plowing member of suitable marginal shape with upper and lower cutting edges, and means for detachably securing it against the front face of a reversible mold board at an end thereof so as to use either cutting edge.

1,753,151. X-RAY CENTERING DEVICE. SIDNEY ISRAEL, Houston, Tex. Filed Mar. 5, 1929. Serial No. 344,167. 9 Claims. (Cl. 250—94.)



8. In X-ray apparatus, the combination with an X-ray confining tube, of a pair of pins diametrically disposed on and rotatably carried by said tube, a centering device having a pair of parallel side bars slidable in said pins one end of said bars terminating in an end bar slidable on the lower surface of said tube, and the other end of said bars terminating in a knob centrally disposed with respect to the longitudinal axis of said tube.

1,753,152. BUILDING WINDOW FRAME. JOHN G. JONSON, Seattle, Wash. Filed Apr. 17, 1926. Serial No. 102,614. 2 Claims. (Cl. 20—11.)



1. In a building window frame, the combination of a pulley stile on each side; a main sill extending beneath and beyond the bottom of said pulley stiles, said sill having a raised shoulder on the rear upper side, said upper side sloping downwardly outwardly; and a sub-sill disposed as respects its front end portion in partial overlapping position on top of said main sill, the raised shoulder of which main sill extends up into said sub-sill, and said sub-sill being entirely disposed between said pulley stiles, whereby a portion of said main sill with the raised shoulder extends laterally beyond said pulley stiles, so that water is prevented from entering rearwardly of said shoulder on that portion of the main sill disposed laterally of said pulley stiles.

1,753,153. APPARATUS FOR THE WINDING OF ENDLESS BANDS. LUDWIG KOLM, Berlin, Germany, assignor to Aktiengesellschaft "Kolmag," Glarus, Switzerland. Filed Dec. 29, 1928, Serial No. 329,102, and in Germany Feb. 18, 1928. 6 Claims. (Cl. 88—18.7.)

1. A device for winding an endless longitudinally perforated band formed into a multi-layered roll having a looped portion extending from the inner to the outer periphery thereof, comprising, a feed sprocket having teeth adapted to engage said perforations, means supporting said sprocket for freely suspending said roll therefrom with the teeth thereof engaging said perforations, where-



by rotation of said sprocket feeds said band by positive action and rotates said roll to simultaneously unreel and reel said band, band directing means positioned in spaced relation to the outer periphery of said roll for returning said band thereto, and guide means for maintaining in alignment the band layers constituting said roll.

1,753,154. HEADLESS SET SCREW. MARTIN L. MARTUS, Woodbury, Conn. Filed Feb. 24, 1927. Serial No. 170,519. 2 Claims. (Cl. 85—1.)



1. A headless expandible set screw of the character described including a solid lower end portion having a portion of its peripheral surface tapered and the remainder thereof threaded, a socket in its upper end portion, a longitudinal slot in the side of the screw opening and extending only to the depth of the socket, and an inner annular tapered top end portion surrounding the open end of the socket and adapted to be expanded into locking engagement with its seat by the correspondingly tapered end portion of a similar screw when positioned thereagainst, either one of said screws being capable of use as a set-screw or as a locking member.

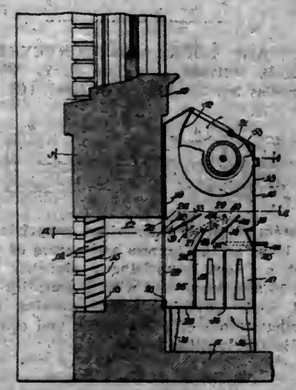
1,753,155. SHIP'S WHISTLE. CHESTER B. MILLS, Brooklyn, N. Y., assignor, by mesne assignments, to Sperry Gyroscope Company, Inc., a Corporation of New York. Filed Sept. 25, 1924. Serial No. 739,787. 11 Claims. (Cl. 116—4.)

1. A signal for ships and the like comprising a sound-producing mechanism adapted to be actuated by fluid under pressure for producing sound without visibility, a source of fluid under pressure, means adapted to become visible when mixed with said fluid under pressure, means whereby said fluid under pressure may be supplied to said mechanism and to said first means in the same operation,



and means whereby said fluid under pressure is effective upon said first means during only a portion of the time that said fluid is effective to operate said mechanism.

1,753,156. HEATING AND VENTILATING APPARATUS. GERALD E. OTIS, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed May 25, 1927. Serial No. 193,979. 8 Claims. (Cl. 257—137.)

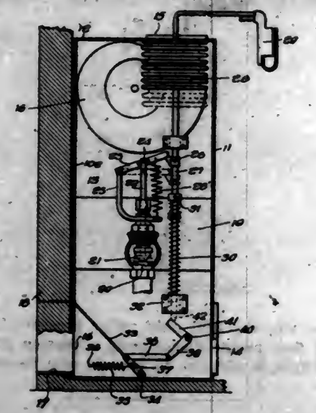


3. A heating and ventilating apparatus adapted to be placed within a room to be heated, and including in combination, a housing having top and bottom walls and front and rear walls, said housing having a partition extending upwardly from the bottom wall thereof and dividing said housing into separate compartments, said bottom wall being provided with an inlet communicating with said chamber, and the other compartment being provided with an inlet communicating with outside air at atmospheric temperature, said partition terminating short of the top of said housing and defining a mixing chamber; a source of heat supply in said heating compartment; interconnected dampers for controlling the passage of air through said compartments; and a suction fan associated with an outlet in the top wall of said housing for inducing discharge of the air passing through said housing into said room.

1,753,157. HEATING AND VENTILATING APPARATUS. GERALD E. OTIS, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed Feb. 4, 1929. Serial No. 337,367. 11 Claims. (Cl. 236—38.)

1. In an apparatus of the character described, the combination with a housing having a recirculating inlet for

indoor air and an inlet for outdoor air, and an outlet through which said air is discharged into an indoor compartment; heating means arranged within said housing; and co-ordinated regulating mechanism for controlling



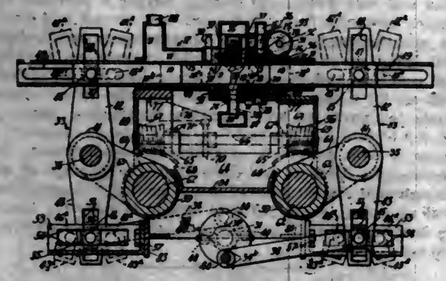
said heating means, said indoor air inlet, and said outdoor air inlet, said means serving upon operation to restrict the heat output of the heating means and the ingress of recirculated air coincidentally with the admission of outdoor air into said housing.

1,753,158. AIR LOCK AND CONVEYER SYSTEM. WILLIAM D. PHILIPS, Brooklyn, N. Y. Filed May 13, 1926. Serial No. 108,990. 8 Claims. (Cl. 34—12.)



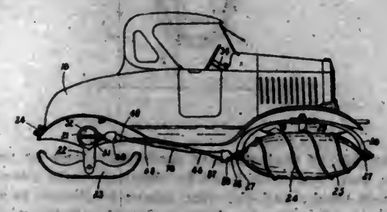
1. A system of the kind described comprising a treating room, air locks at the ingress and egress of the treating room, each air lock comprising a plurality of compartments out of alignment and with a plurality of self closing doors, and conveying means passing through the plural compartments of the air lock and converging into proximity in the treating room.

1,753,159. INTERNAL-COMBUSTION ENGINE. BURNHAM C. STICKNEY, Hillside, N. J. Filed Oct. 23, 1926. Serial No. 143,580. 13 Claims. (Cl. 123—48.)



3. An internal combustion engine including a crank-shaft, a plurality of pairs of pistons, the pistons of each pair working in a cylinder extending transversely of the crank-shaft, each cylinder having midway thereof an explosion chamber, means including a set of levers of the first order on each side of the engine for connecting the pistons on said side to the crank-shaft, swingable arms upon which said sets of levers are fulcrumed, said arms enabling the fulcrums of the levers to be shifted to change the lengths of piston-strokes, a rotatable hub on each side of the engine connecting all the arms on said side, a shaft extending transversely of said hubs and having worms meshing with worm-segments on said hubs, and means including a pinion on said shaft, a rack meshing therewith, and a handle or lever connected to the rack for revolving said shaft at will.

1,753,160. AUTO SLED. SAMUEL N. STOWELL, Yuba City, Calif., assignor of one-fourth to Esther A. E. Rattray, Marysville, Calif. Filed Mar. 5, 1929. Serial No. 344,397. 1 Claim. (Cl. 180—8.)



In an auto sled of the character described, comprising in combination a chassis; runners supporting the rear end of said chassis; rotatably journalled drums supporting the forward end of said chassis; a differential housing supported from the rear end of said chassis; a transverse shaft journalled in said housing; a main drive shaft connecting from a motor and having one end geared to transmit driving power to said transverse shaft; a stub drive shaft supported in each end of said housing; a telescopic drive shaft connection intermediate its respective drum and its respective stub drive shaft and having a universal connection therewith; a clutch mechanism carried at each end of said transverse shaft; a drive connection between the stationary portion of each of said clutch members and its respective stub drive shaft; a movable portion of each of said clutch members being mounted in reciprocal keyed relationship to said transverse shaft and normally in engaged position and a means for reciprocating last said portions individually without disengaging the other of said portions.

1,753,161. PEN-POINT ALLOY. JOHN E. WOODWARD, Brooklyn, N. Y., assignor to Messrs. Kastenhuber & Lehrfeld, New York, N. Y., a Partnership consisting of Charles F. Kastenhuber, William F. Lehrfeld, and Hugo R. Lehrfeld. Filed Dec. 19, 1927. Serial No. 241,278. 5 Claims. (Cl. 75—1.)

5. An alloy comprising 5–15% of a metal of the tungsten group; 1 to 5% of a metal of the nickel group; 5–15% of platinum; and 70–85% of osmium.

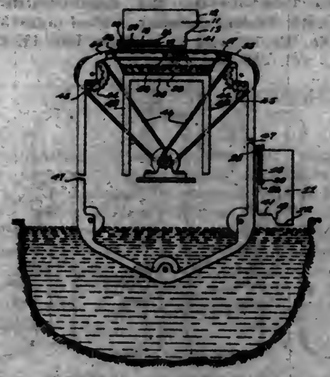
1,753,162. ALLOY. JOHN E. WOODWARD, New York, N. Y., assignor to Kastenhuber & Lehrfeld, New York, N. Y., a Partnership of Charles F. Kastenhuber, William F. Lehrfeld, and Hugo R. Lehrfeld. Original application filed Dec. 19, 1927, Serial No. 241,278. Divided and this application filed May 22, 1929. Serial No. 365,232. 4 Claims. (Cl. 75—1.)

4. An alloy comprising 10–20% of a metal of the tungsten group; 2–8% of a metal of the nickel group; and 70–85% osmium.

1,753,163. WATER HOIST. THOMAS C. SPELLING, New York, N. Y. Filed Dec. 12, 1928. Serial No. 325,622. 14 Claims. (Cl. 198—143.)

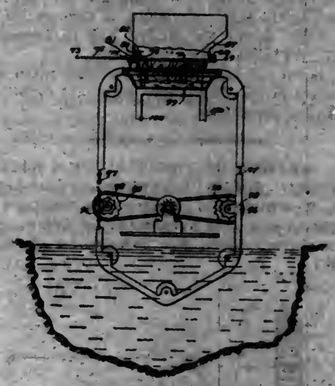
1. In an apparatus of the character described, the combination with a container having horizontal slots in

the sides thereof and an open bottom portion, of a sliding door for the bottom portion, and means for operating the sliding door through the slots in the sides of the container including pivoted catches near the path of movement of the container, substantially as and for the purpose described.



8. In a machine of the character described, a container for liquids, the forward end of the container being formed with relatively upper and lower openings, and flexible flap valves for said openings, one arranged to open inwardly and the other outwardly, substantially as and for the purpose described.

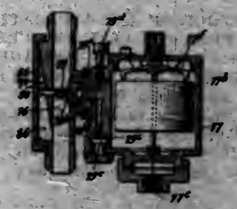
1,753,164. WATER HOIST. THOMAS C. SPELLING, New York, N. Y. Filed Feb. 25, 1929. Serial No. 342,658. 17 Claims. (Cl. 198—143.)



1. In an apparatus of the character described, a container for liquids having an open discharge portion and a slotted end wall, and a sliding closure for the discharge portion adapted to move through said slotted end wall in opening the discharge portion, in combination with sealing means at the slotted end portion of the wall cooperatively related to the sliding closure to prevent leakage therebetween.

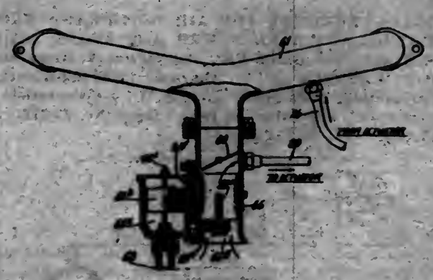
8. In an apparatus of the character described, a container for liquids having a bottom discharge opening, a closure therefor, and means adapted to be controlled by the liquid discharging from the container for directing said discharging liquid to the intended zone of escape.

1,753,165. APPARATUS FOR OPERATING SUCTION-ACTUATED DEVICES IN CONNECTION WITH THE SUCTION PASSAGES OF INTERNAL-COMBUSTION ENGINES. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed Mar. 16, 1925, Serial No. 15,732. Renewed Jan. 5, 1929. 12 Claims. (Cl. 123—127.)



1. The combination with an internal combustion engine, provided with a suction passage, a main carburetor for the engine communicating therewith and a throttling valve for said passage, of a suction actuated device comprising an actuator cylinder, a piston therein and controlling valve mechanism, an air connection extending from the actuator cylinder to said suction passage, means for preventing interference with the operation of the engine, or stalling it if idling, by the operation of the suction actuated device, comprising a separate and independent carburetor for the air withdrawn from the suction actuated device located in said air connection and provided with a float chamber, a float and liquid fuel control valve connected therewith, the space above the liquid in the float chamber being in communication with the atmosphere, a jet nozzle connected with said float chamber for supplying fuel to the air passing through said air connection and means for equalising the pressure on the discharge orifice of the jet nozzle and in said float chamber to prevent flooding the separate carburetor and the air connection, when the suction actuated device is not in operation.

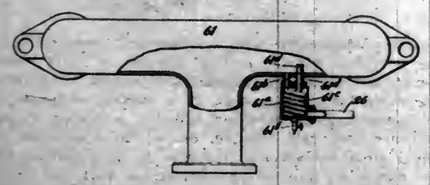
1,753,166. METHOD OF AND APPARATUS FOR OPERATING SUCTION-ACTUATED DEVICES IN CONNECTION WITH THE SUCTION PASSAGES OF INTERNAL-COMBUSTION ENGINES. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed May 5, 1925, Serial No. 28,104. Renewed July 13, 1929. 10 Claims. (Cl. 123—198.)



1. The combination with an internal combustion engine provided with a suction passage for supplying an explosive mixture to the engine cylinders, means for supplying the normal charge forming explosive mixture to said passage, and a throttle valve for controlling said passage, of a suction actuated device connected with said suction passage between the throttle valve when in normal, closed, or partially closed operative position, and

the engine cylinders, and provided with a higher pressure fluid inlet, means for delivering a portion of said explosive mixture to said inlet to effect the operation of the suction actuated device, and for withdrawing the said mixture through the connection between the suction actuated device and said portion of the suction passage when the throttle valve is in position to produce rarification therein.

1,753,167. METHOD OF AND APPARATUS FOR OPERATING SUCTION-ACTUATED DEVICES IN CONNECTION WITH THE SUCTION PASSAGES OF INTERNAL-COMBUSTION ENGINES. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed June 16, 1925. Serial No. 37,407. Renewed July 13, 1929. 12 Claims. (Cl. 123—198.)



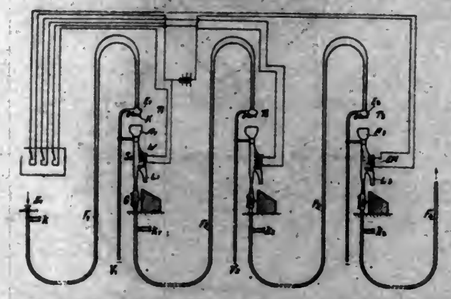
1. The combination with an internal combustion engine, provided with a suction passage communicating with the engine cylinder, or cylinders, a carburetor connected thereto for supplying the normal charges for the engine cylinders at all speeds, a throttle valve for controlling said passage, a suction actuated device, and a suction pipe connecting it with said passage, of a receptacle interposed between said suction pipe and the said suction passage, and a capillary medium within said receptacle for holding said liquid fuel collected from said suction passage, and effecting the carburetion of the air withdrawn from the suction actuated device before it reaches the suction passage to prevent interference with the operation of the engine or stalling it if idling, by the operation of the suction actuated device, said capillary medium having portions projecting from the upper end of said receptacle into a portion of said suction passage adjacent to the engine cylinder, or cylinders, and a portion projecting from the lower end of said receptacle into a vertically disposed portion of said suction passage, adjacent to the carburetor, for collecting liquid fuel from the charge forming mixture and automatically draining said receptacle of excess liquid fuel so collected thereby in excess of its ability to hold the same.

1,753,168. FUELIZER FOR AIR WITHDRAWN FROM SUCTION-ACTUATED POWER ACTUATORS. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Filed May 28, 1925. Serial No. 33,375. 21 Claims. (Cl. 261—69.)



1. Means for carbureting air withdrawn from a suction operated power actuator to the suction passage of an internal combustion engine acting as a source of suction, comprising a hollow body having an air passage therethrough, a fuel supply inlet to said hollow body, a valve for controlling said inlet, and a diaphragm member constructed to pass quantities of air ineffectual to affect the operation of the engine if unfuelized, said diaphragm flexed only by abnormal quantities of air traversing said air passage to directly open said fuel valve.

1,753,169. TUBULAR POSTAL SECTION. WILHELM HÖHNE, Berlin-Charlottenburg, Germany, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Filed Jan. 31, 1929. Serial No. 336,538, and in Germany Dec. 11, 1925. 17 Claims. (Cl. 243—6.)

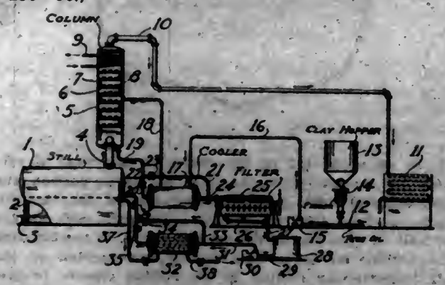


1. A tubular despatch system comprising a plurality of separate sections, separate means at the points of division of the sections for supplying actuating fluid to each of said sections, the adjacent ends of said sections being so arranged that a carrier moves from one section into the succeeding section in one direction under the force of inertia alone, and switches at the division points of said sections for deflecting a carrier from said sections, said switches being located in said sections adjacent the admission ends thereof.

1,753,170. PROCESS FOR INTRODUCTION OF IODINE INTO PYRIDINE DERIVATIVES. GERD KOCHENDÖRFER, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold & Silver Scheideanstalt, vormals Roessler, Frankfort-on-the-Main, Germany, a Corporation. Filed Feb. 1, 1926, Serial No. 85,387, and in Germany Jan. 24, 1925. 6 Claims. (Cl. 260—42.)

1. Process for the iodation of an α-substituted pyridine, which consists in reacting iodine with said pyridine under weakly alkaline conditions.

1,753,171. METHOD OF TREATING OILS WITH FINELY-DIVIDED SOLID MATERIAL. NATHANIEL E. LOOMIS, Westfield, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed June 12, 1928. Serial No. 284,850. 4 Claims. (Cl. 196—96.)



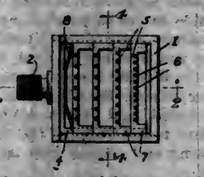
1. The method of treating crude oil, with or without a preliminary topping, which comprises introducing a mixture of crude oil and clay into the mid-portion of a group of rectifying zones, withdrawing liquid bottoms containing suspended decolorizing clay from the said group of rectifying zones, filtering said liquid bottoms to separate clay therefrom, conducting the filtered bottoms into a body of oil maintained at a temperature at which hydrocarbon vapors are evolved and conducing the evolved vapors into the said group of rectifying zones at or near the lower portion thereof.

1,753,172. CONSTRUCTION OF CLOSED VEHICLE BODIES. THOMAS PAUL LOHERMAN, Detroit, Mich. Filed Dec. 15, 1926. Serial No. 155,000. 1 Claim. (Cl. 296—137.)



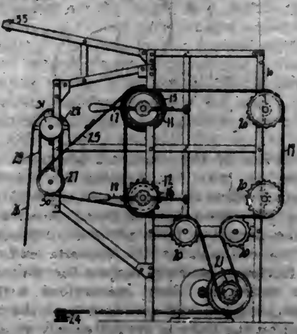
In combination with a roof frame and a deck covering therefor; a channel bearing member mounted on said roof frame; a flexible retaining member secured to the edge of said deck cover and engageable in said channel and removable from said channel only upon deformation from its normal shape; and a metallic reinforcing member embedded in said retaining member and normally resisting deformation of said retaining member from its normal shape and locking said retaining member against removal from said channel.

1,753,173. PRINTING CHASE. PAUL M. POPE, New York, N. Y., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed July 20, 1927. Serial No. 207,051. 5 Claims. (Cl. 101—391.)



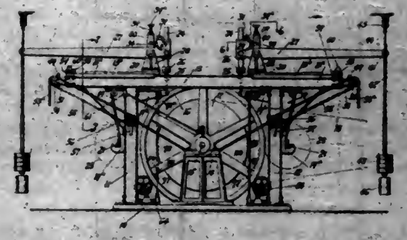
1. A printing chase comprising a rectangular frame having inner walls of equal length, the exterior of said frame being provided with means to support the chase in a fixed position in a printing machine, and each of the inner walls of said frame being straight from end to end thereof, but shaped from top to bottom to receive and support type bars of a length to extend from one inner wall to the opposite inner wall whereby said type bars may extend across said chase and be supported thereon in any position in either of two directions.

1,753,174. STRIP-PULLING DEVICE. RONALD F. RUSSELL, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 6, 1927. Serial No. 211,216. 2 Claims. (Cl. 242—55.)



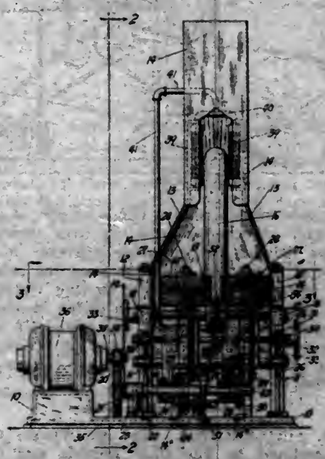
2. In combination with a strip material carrying liner, means for removing a strip from said liner by imparting intermittent jerks to the strip material to break adhesion thereof to the liner, means for passing said liner adjacent said strip removing means, and means operated by the passage of the liner for rotating said strip removing means.

1,753,175. TIRE-TESTING MACHINE. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 27, 1924. Serial No. 702,344. 40 Claims. (Cl. 73—51.)



1. A tire-testing machine comprising a rotary drum, a mounting for a tire normally holding the tire away from the drum, means for urging the tire relatively against the surface of the drum, and means adapted to be actuated by movement of the tire to release the first means when the tire bodily moves a predetermined distance relatively toward the drum.

1,753,176. METHOD AND APPARATUS FOR DRYING ARTICLES. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 4, 1924. Serial No. 753,853. 8 Claims. (Cl. 34—26.)

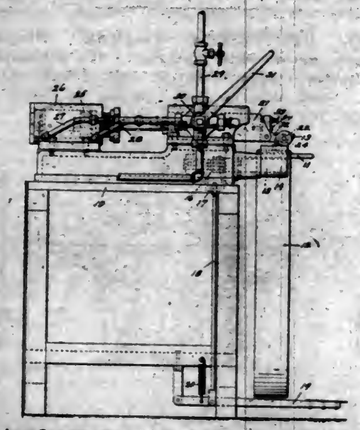


1. That method of drying articles of torus shape which comprises rotating the articles while directing one blast of air against their outer peripheries and other blasts of air over their sides.

1,753,177. BENDING MACHINE. WILLIAM C. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 18, 1926. Serial No. 136,288. 6 Claims. (Cl. 153—25.)

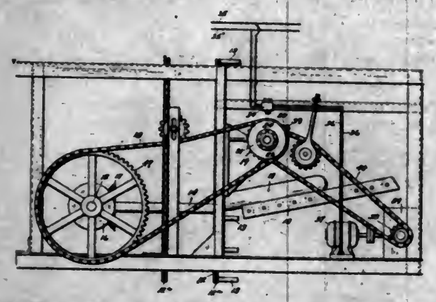
1. Apparatus for bending valves on tubes, said apparatus comprising means for supporting a tube therein,

means for clamping the valve in fixed position on the support, said means comprising arms movable into valve embracing relation, a bending roller provided with valve



embracing flanges movable over the support, said support and said roller being adjustable relatively toward and from each other and toward and from the clamping arms.

1,753,178. SAFETY CLUTCH FOR TIRE CONVEYERS. FREDERICK H. TENNEY, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 3, 1926. Serial No. 99,486. 4 Claims. (Cl. 192—129.)



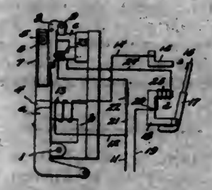
1. The combination with a tire conveyer, of an elevating conveyer arranged to pick up tires therefrom and means for driving the elevating conveyer including a prime mover, a friction clutch between the prime mover and the elevating conveyer, the driving clutch member having a cam thereon, the driven clutch member having a radially movable pin therein, and means for cutting off power to the prime mover adapted to be actuated by movement of the pin outwardly by the cam due to relative rotation of the clutch members.

1,753,179. CONNECTER. ROY O. WEATZ, Cleveland, Ohio, assignor to The Ohio Electric and Controller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 16, 1925. Serial No. 2,783. 2 Claims. (Cl. 173—363.)



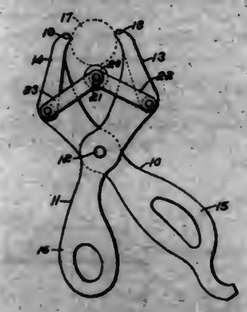
1. A connecter of the character set forth comprising a pair of telescoping shells adapted to be detachably connected together, an insulating sleeve positioned within each of said shells, a contact support positioned within one of said sleeves and having a bore therein, a spring secured in said bore and projecting from said support, a contact member carried by the said spring, a plurality of flexible conductors connecting said contact member and contact support, a contact member positioned within the other of said sleeves and adapted to engage the first mentioned contact member when the shells are connected, means for securing said sleeves against relative movement within said shells and means for detachably connecting said shells together.

1,753,180. SWITCH-ACTUATING MECHANISM. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed Dec. 8, 1926. Serial No. 153,304. 5 Claims. (Cl. 175—375.)



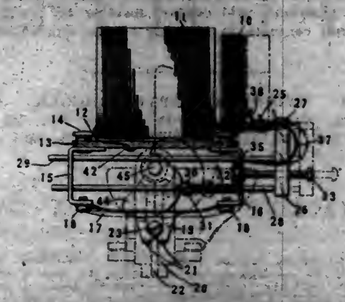
3. An alternating current switch operating mechanism comprising a main magnet, a holding magnet, an operating lever movable to closed position by the main magnet, a holding armature movable to closed position by said operating lever and adapted to hold the latter in closed position while the holding magnet is energized, a normally open switch for closing the circuit of the main magnet, a magnet for closing said switch, a circuit including the coils of the latter magnet and of the holding magnet, and means for opening and closing said latter circuit.

1,753,181. FUSE TONGS. HAROLD D. GRINNELL, Pittsfield, Mass., assignor to The G. C. A. Manufacturing Company, Pittsfield, Mass., a Corporation of Massachusetts. Filed Sept. 26, 1928. Serial No. 308,406. 2 Claims. (Cl. 81—3.8.)



1. In a device of the character described, in combination, a pair of jaws for gripping an object and auxiliary gripping means carried on and operated by the jaws for moving the object into gripping position, said auxiliary means including links pivotally connected to each other at one end and at the opposite end to opposite jaws and having a bearing surface for contact with the object, the links and their connections with the jaws being so proportioned and arranged that the bearing surface carried by the links is approximately at all times the same distance from the points of engagement of the jaws with the object as the said points of engagement are from each other.

1,753,182. VARIABLE COUPLING DEVICE. LLOYD A. HAMMARLUND, Rockville Center, N. Y., assignor to The Hammarlund Manufacturing Company, Inc., a Corporation of New York. Filed Nov. 28, 1927. Serial No. 236,199. 5 Claims. (Cl. 171—119.)



1. A construction of the character described comprising two end brackets, two insulating strips connecting said brackets, a coil having one wall supported between said strips and a yoke connecting said brackets opposite said strips.

1,753,183. CASTER. WILFRED G. JOHNSON, Elyria, Ohio, assignor to The Colson Company, Elyria, Ohio, a Corporation of Ohio. Filed Dec. 17, 1927. Serial No. 240,698. 3 Claims. (Cl. 16—39.)



1. In a caster mechanism, a caster wheel, a mounting therefor comprising a bearing, a caster stem swivelly supported by the bearing on the mounting, said stem having an upper threaded portion, a shoulder on the stem portion disposed adjacent the bearing, a collar adapted to be seated on the shoulder, a second collar disposed on the threaded end of the stem, said collars both having convergingly tapered outer surfaces and a pair of expander elements interposed between the tapered surfaces of the collars, each of said elements comprising a resilient sheet metal stamping having a perforated central portion adapted to be telescoped over the stem end and a plurality of integral wings extending from the same side of the central portion in like angular relation thereto, the ends of the wings of one of said collars of each of said elements adapted to be cammed outwardly by the tapered outer surfaces of a different one of said collars, said expander elements being disposed between the collars with their central portions pressed together by the longitudinal pressure exerted on the ends of the wings by the collars, said stem, said collars and said elements adapted to be projected within the tubular leg of an article of furniture and to have the ends of the wings pressed outwardly by the collars upon rotation of the stem, one of said collars being held against longitudinal movement in a direction away from the other collar.

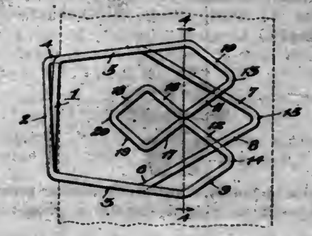
1,753,184. TREATMENT OF GUAYULE, ETC. DAVID SPENCE, Norwalk, Conn., assignor to Intercontinental Rubber Company, New York, N. Y., a Corporation of Delaware. Filed May 8, 1926. Serial No. 107,830. 21 Claims. (Cl. 18—50.)

1. The method of treating guayule or other rubber-bearing plants, etc., which comprises subjecting the same after harvesting and before treatment for the extraction of rubber therefrom to the action of a stabilising agent which will prevent the deterioration of the rubber in the plants.

1,753,185. EXTRACTION OF RUBBER FROM GUAYULE, ETC. DAVID SPENCE, Norwalk, Conn., assignor to Intercontinental Rubber Company, New York, N. Y., a Corporation of Delaware. Filed May 12, 1926. Serial No. 108,700. 18 Claims. (Cl. 18—50.)

1. The improved method of extracting rubber from guayule and other rubber-bearing plants, etc., which comprises subjecting the plants to mechanical extraction of the rubber therefrom in the presence of stabilising agents.

1,753,186. BILL HOLDER. LAWRENCE E. BAER, Attleboro, Mass., assignor to Baer & Wilde Company, Attleboro, Mass. Filed July 18, 1929. Serial No. 379,147. 1 Claim. (Cl. 24—261.)

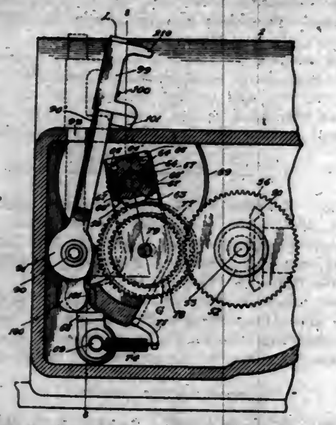


A bill holder formed of a single piece of wire bent to form a pair of jaws and a pair of bases which latter centrally intersect one another, the sides of one of the jaws being extended to form a V-shaped free end therefor and the sides of the other jaw being bent to form a free end for the latter composed of a pair of spaced V-shaped members, the V-shaped end of the first named jaw extending beyond said free end of the second jaw and having its extremity disposed in registry with the space between said V-shaped members, the sides of the said V-shaped end of the first jaw extending across the spaces between the legs of the V-shaped members, the inner legs of the V-shaped members being extended toward the bases of the jaws and formed with a finger tip rest and open clamping member.

1,753,187. WINDING MACHINE. MARTIN B. GROUT, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 1, 1925. Serial No. 40,823. 12 Claims. (Cl. 74—58.)

1. A machine of the character described including a rotatable shaft, a transverse shaft and a plurality of pinions secured to said transverse shaft, means connecting said rotatable shaft and said transverse shaft for rotating said transverse shaft, a plurality of hangers pivotally supported on said transverse shaft, gears rotatably supported by said hangers engaging said pinions and adapted to be driven by said pinions, a second transverse shaft, a plurality of gears rotatably supported on said

second shaft, and means including a slidably supported lever adapted to be moved into engagement with said



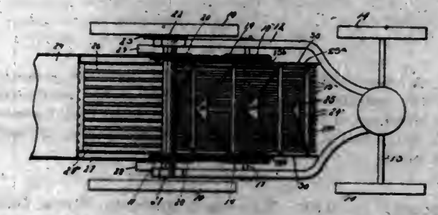
hangers for moving the gears supported by said hangers into engagement with said gears on said second transverse shaft for driving the same.

1,753,188. VARIABLE RESISTANCE. JOHN L. HOWIE, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1926. Serial No. 155,357. 8 Claims. (Cl. 201—55.)



7. A device including a resistance member provided with conducting contacts molded therein, a phenol condensation product fused with said resistance member and said contacts to form a unitary cup-shaped supporting member, and a contact member having one end composed of a plurality of depending legs adapted to engage associated mechanism for maintaining said contact member in its adjusted positions, said contact member for variably engaging said contacts to variably change the effective resistance.

1,753,189. CYLINDER POTATO DIGGER. GEORGE BACKER, Shamokin Dam, Pa. Filed Nov. 23, 1927. Serial No. 235,191. 3 Claims. (Cl. 55—59.)



1. A potato digger comprising a frame, traction wheels supporting the rear of said frame, guide wheels supporting the front of said frame, a shaft adjustable substantially vertically in said frame, a cylinder revolubly mounted on the shaft and including hubs, spokes radiating therefrom, cross bars at the outer ends of the spokes and strips mounted in spaced relation on said bars, scoops mounted on the cross bars and projecting from the cylinder, and means to transmit motion from the traction wheels to the cylinder.

CARNEGIE LIBRARY OF ATLANTA

Patents Nos. 1,753,190 to 1,754,215

THE

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Designs	81—No.	80,872 to No.	80,952, inclusive.
Patents	1,026—No.	1,753,190 to No.	1,754,215, inclusive.
Total	1,327		

Adjudicated Patents

(C. C. A. Ohio.) Fulton patent, No. 971,838, for process of making tubular metal walls, *Held* infringed. *Bishop & Babcock Mfg. Co.* v. *Fulton Co.*, 37 F. (2d) 293.

(C. C. A. Mich.) Rousso patent, No. 1,157,046, for towel cabinet, *Held* valid and infringed. *Rousso* v. *First Nat. Bank*, 37 F. (2d) 281.

(D. C. Ill.) Gans patent, No. 1,195,923, for water-softening apparatus, claims 1 to 5 *Held* invalid. *Permutit Co.* v. *Graver Corporation*, 37 F. (2d) 285.

(C. C. A. Mich.) Olson patent, No. 1,295,578, for towel cabinet, claim 1 *Held* invalid, claims 3 and 5 *Held* not infringed. *Rousso* v. *First National Bank*, 37 F. (2d) 281.

(C. C. A. Pa.) Kissock reissue patent, No. 16,896, for process of making alloy steel, *Held* invalid. *Kissock* v. *Duquesne Steel Foundry Co.*, 37 F. (2d) 249.

Classification Bulletin No. 61

Classification Bulletin No. 61 Jan. 1 to Dec. 31, 1929, is now available and may be purchased from the Superintendent of Documents, Government Printing Office, at 10 cents a copy.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,629,496, J. Fraser, Foot-actuated valve, decided March 8, 1930, claims 1 and 3.

Pat. 1,633,152, W. Witte, Process of finishing fabrics and to the fabric and composition, decided February 18, 1930, claims 1, 2, 3, 4, 5, 6, and 7.

Pat. 1,671,728, L. E. La Brie, Brake shoe, decided February 17, 1930, claims 1, 2, and 9.

Pat. 1,717,083, H. B. Arnold, Carrier signal system, decided February 17, 1930, claims 1, 2, 3, and 5.

Final decision in interference has been rendered against the following trade-mark:

T. M. 257,884, Wheat flour, W. E. Fuller, doing business as Walter E. Fuller Flour Company, Boston, Mass. Registered June 18, 1929. Decided March 18, 1930.

Interviews with Examiners

RULE 18. Interviews with Examiners concerning applications and other matters pending before the Office must be had in the Examiners' rooms at such times, within office hours, as the respective Examiners may designate; in the absence of the Primary Examiners, with the assistant in charge. Interviews will not be permitted at any other time or place without the written authority of the Commissioner. Interviews for the discussion of pending applications will not be had prior to the first official action thereon.

NOTICE

COPYING CLAIMS FROM PATENTS

Counsel prosecuting applications for patents are advised that in presenting any claim or claims copied or substantially copied from a previously issued patent there must be added a clear statement setting forth the origin of the claim or claims and the identifying data of the patent, since otherwise counsel may be deemed to be seeking, obviously improperly, to obtain a claim or claims to which the applicant is not entitled under the law without an interference, or the Examiner may be led into making an action different from what he would have made had he been in possession of all the facts. Examiners are directed to promptly call the personal attention of the Commissioner to any failure of counsel to follow the above indicated procedure.

THOMAS E. ROBERTSON,
Commissioner.

Condition of Applications Under Examination at Close of Business March 28, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,670; Trade-Mark Division, 1,537. Oldest new case, May 17, 1929; oldest amended, May 10, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	July 22	Aug. 14	1,328
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	July 2	July 8	2,028
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	July 10	Oct. 14	1,540
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Sept. 3	Sept. 3	1,215
106*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	July 2	July 5	1,520
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	May 23	May 10	2,260
106	7. JARBOE, C. G., Optics; Photography	June 11	June 11	2,564
133	8. HENRY, O. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	July 8	Oct. 1	1,601
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Sept. 4	Sept. 11	1,478
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 3	July 27	1,515
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Oct. 6	Oct. 19	973
380	12. PIERCE, P. P., Machine Elements	Aug. 31	Sept. 5	1,461
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling	July 3	July 1	1,639
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	June 20	June 20	1,473
220	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	June 5	June 10	3,040
242*	16. SPENCER, C. J., Telegraphy; Telephony	July 12	Sept. 21	1,266
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 10	July 1	1,636
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	July 30	Aug. 5	1,470
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	June 27	July 1	2,178
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Aug. 5	Aug. 5	1,602
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 18	Oct. 26	861
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	July 8	Aug. 30	1,673
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	June 7	June 17	1,220
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 3	June 12	1,338
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 5	July 26	1,561
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	June 5	July 24	1,253
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 20	June 10	1,632
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 2	Aug. 2	2,065
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Oct. 12	Oct. 7	757
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	July 6	Dec. 2	1,233
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	July 11	July 11	2,570
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 21	Aug. 22	1,796
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	June 3	June 7	2,662
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	July 17	Aug. 1	1,184
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Sept. 6	Oct. 1	1,859
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	July 15	July 30	2,372
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	June 24	July 1	2,160
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	June 10	June 11	2,086
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 5	June 3	2,089
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	June 11	Sept. 14	3,087
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Aug. 1	Aug. 8	1,418
223*	42. CUTTING, H. O., Electric Signaling	Aug. 3	Sept. 3	1,632
134*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	June 7	June 8	2,379
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	May 30	May 31	2,367
370	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	May 22	June 12	2,495
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 1	Aug. 8	1,681
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	June 1	July 2	2,609
212*	48. ROEPKE, O. B., Electricity, General Applications	June 26	July 3	1,395
230	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Sept. 17	Sept. 28	1,180
222	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	June 17	July 1	2,920
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	July 1	July 1	2,350
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Aug. 5	Aug. 9	2,619
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Oct. 9	July 19	1,320
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	June 19	June 19	2,832
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	Nov. 23	Nov. 23	450
	{Designs	†Mar. 3	†Mar. 14	425
260	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	June 19	June 24	2,448
267*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 13	July 17	1,277
270*	58. DOWELL, E. F., Abrading; Typewriting	May 17	May 24	1,506
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	June 10	June 10	2,976
218*	60. GLASS, E. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	June 27	July 1	2,405
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	June 3	June 7	2,009
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	July 3	July 9	2,814
108	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—{Trade-Marks	†Feb. 28	†Mar. 11	1,379
	{Labels and Prints	†Feb. 28	†Mar. 14	188

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

SLATTERY *v.* LARNER

No. 2,149. Decided December 30, 1930

[36 F. (2d) 298]

1. INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS. *Held* that the claims in issue when properly constructed do not read upon the disclosure of the L. application and that S. is entitled to the award of priority.

2. SAME—ISSUE—CONSTRUCTION OF CLAIMS. "It is true that an applicant need not at the time of filing application, necessarily be conscious of every function which his device can perform in order to claim it, and in interference proceedings 'claims should be given as broad a meaning as their terminology will reasonably permit.' *Sherman* v. *Hagemann*, 301 O. G. 1052, 51 App. D. C. 378. But this principle should not, we think, be stretched so as to apply to a case where there is such manifest difference in structures, and claims, as appears to exist in the instant case."

APPEAL from the Patent Office. Reversed.

Mr. W. T. Estabrook and *Mr. A. J. Hudson* for Slattery.

Mr. F. A. Bower for Larner.

GARRETT, *J.*:

This is an interference case in which Slattery has appealed from the action of the Board of Patent Appeals on October 8, 1927, affirming a decision of the Examiner of Interferences according priority in favor of Larner to an invention relating to "valves, particularly hydraulic valves of the pressure operated plunger type."

The devices involved in the controversy appear to be contemplated as being for use in water pipes or conduits of large dimensions, some of as much as 14 feet in diameter, installed in filtering plants, irrigation plants, hydroelectric plants and other hydraulic works.

The pertinent history of the actions out of which the issues grew is that on July 22, 1919, Larner filed an application, No. 312,559, making certain claims. On June 1, 1920, Slattery filed application which ripened into Patent 1,483,991 on February 19, 1924, while the Larner application was still pending. On January 19, 1925, Larner copied as claims the five counts which are in issue, same being taken from the Slattery patent and added to his original application of July 22, 1919. On March 17, 1925, Larner filed application containing the claims as a division of the earlier application, it being a duplicate of the specifications and drawings of the parent application, and this divisional application was substituted in the interference.

The counts in issue are five in number and correspond to Slattery's claims 1, 2, 4, 5, and 6. No. 1 reads as follows:

In combination with a conduit, a valve comprising a casing, a hollow member within the casing having a plunger, means for shifting said plunger to open and close the valve, and means independent of the means for opening and closing the valve and extending to the exterior of the valve for maintaining within said hollow member substantially the same pressure that exists on the nose of the plunger.

The other four counts cover the same structure in slightly different language, and it is not deemed necessary to quote them verbatim. Count 4 is apparently broader than the others in that it does not contain the word "independent," and No. 5 speaks specifically of an "equalizing pipe." Otherwise, the meaning of all the counts seems to be identical.

The assignments of error, in substance, submit two general questions: First, whether Larner had the right to make the claims forming the counts of the interference, and, second, whether he was estopped by any of the facts shown, or by law, from making said claims.

The primary matter within the jurisdiction of this court is, of course, that of priority. The proofs of dates of conception and reduction to practice sustain the statement that the dates of Larner are prior to those of Slattery. This Slattery concedes, and did the dates constitute the only element to be considered, the question would be entirely answered and in Larner's favor. But there is a second element of the first factor, as we have stated the issues, and that is the insistence that Larner did not have—

> a sufficient basis in the specification of his application * * * to support the subject matter of the claims * * * when said claims are made in Larner's application.

The contention upon the latter point revolves about the question of whether the pipe 34, shown in the Slattery drawing, so differs in its functioning or in its application to the functions performed, from pipe 12, shown in the Larner drawing, as to preclude it being covered by the Larner specification while being covered in the Slattery specification.

The Board of Appeals in its decision describes the respective structures and their functioning as follows:

> The invention of both parties relates to hydraulic valves of the pressure operated plunger type. Slattery moves his plunger 17 to open or closed position by hydraulic pressure applied to the piston 23 in a cylinder 22 located in the chamber A of the valve. Slattery provides an "equalizing pipe 34" which the specification states is "to maintain the same pressure on the inner side of the valve plunger as exists on the nose of the plunger."
>
> Larner's valve has a similar plunger 5 movable by hydraulic pressure but his means for moving it differs specifically from that of Slattery. The Larner specification states—
>
> "The main valve 5, is operated by control valves 10 and 11, for example, in either of two ways. Ports or connections 8 and 9, are either connected to a drain or otherwise discharge against atmospheric pressure; or they are connected to an independent pressure system carrying a pressure higher than that in the main valve. In the first case the plunger 5, is moved to open position by exhausting the chamber 6, through port 8, and is closed by exhausting chamber 7, through port 9. In the second case the plunger is moved to open position by admitting higher pressure to chamber 7, through port 9, and is closed by admitting higher pressure to chamber 6, through port 8. The valves 10 and 11, are normally

closed, and they are alternately opened to move the plunger, but as soon as the plunger has completed its stroke they are closed.

"Larner has a pipe 12 similar to Slattery's pipe 34 connecting the valve chamber with the conduit beyond the closing position of the plunger. The question in controversy involves the structure and function of this by-pass pipe."

The Board then continues:

Slattery contends first, that the pipe 12 of Larner is not independent but a part of his means for opening and closing the valve. It is true that during the movement of the plunger the size of the chamber in the valve back of the plunger changes and there is flow of water through the pipe 12 into or out of said chamber. The same is likewise true of appellant's pipe 34. Moreover, Larner does not describe his pipe 12 as a part of his means for opening and closing his valve. In our opinion the term independent as used in the counts is as applicable to Larner's pipe 12 as it is to Slattery's pipe 34.

Slattery further contends that Larner's pipe 12 does not have the function of "maintaining within said hollow member substantially the same pressure that exists on the nose of the plunger," as called for in the count. Larner's specification states that his pipe 12 is provided to prevent the pressure on the nose of the plunger from becoming lower than in the chamber 6 when the valve is open which would result in closing the valve. The Law Examiner has carefully analyzed this matter. He finds that in both Larner's and appellant's devices there will be a flow of water in the pipe when the plunger is opened or closed and a temporary disturbance of the pressure in the devices of both parties. We agree with his conclusion that the term "maintains * * * substantially the same pressure * * *" in the claim is to be construed broadly and is properly applicable to Larner's device as well as that of appellant.

It seems to us that in so holding, the tribunals in the Patent Office have failed to give recognition to a difference in the functioning of the structures, or in the application of the pipes to the functions intended to be performed by the structures, which difference we think is entitled to recognition in Slattery's favor. This difference lies in the fact that in Slattery's structure the pipe 34 is a "means independent of the means for opening and closing the valve, etc." as claimed in typical count 1, supra, while in the Larner structure the pipe 12 is connected to an operating chamber.

The effect of this independent means in operation appears to be that of maintaining within the hollow member in which the valve is constructed substantially the same pressure as that which exists on the nose of the plunger, this being accomplished by reason of the fact that one end of the pipe 34 in Slattery's structure is connected to the exterior of the valve, while the relatively corresponding end pipe 12 in Larner's structure is connected with a chamber in the valve itself. The Slattery arrangement thus equalizes the pressure and affects the opening and closing of the valve in a manner different from the operation applied by the Larner arrangement.

We feel assured from the record in the case that at the time of filing his parent application appellee did not contemplate or expect the performance of the same function in the same way by his pipe 12, as Slattery expected from his pipe 34. The Larner specifications and claims do not specifically disclose any such purpose, while those of Slattery appear to us clearly to do so. It is true that an applicant need not at the time of filing application, necessarily be conscious of every function which his device can perform in order to claim it, and in interference proceedings "claims should be given as broad a meaning as their terminology will reasonably permit." *Sherman* v. *Hagemann*, 301 O. G. 1052, 51 App. D. C. 373. But this principle should not, we think, be stretched so as to apply to a case where there is such manifest difference in structures, specifications, and claims, as appears to exist in the instant case.

Under this view of the case it does not appear to be necessary that we should pass upon the question of estoppel raised in the second part of Slattery's contention as we have stated it, supra.

For the reasons given the decision of the Board of Patent Appeals is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

MORGAN *v.* DRAKE, HUBBELL, AND CONRADSON.

No. 2,781. Decided December 30, 1929

[36 F. (2d) 511]

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIMS. Record reviewed and *Held* to establish that M. has no right to make the claims in issue in his reissue application since the invention claimed was not disclosed in his original patent, and that he is not entitled to the award of priority.

APPEAL from the Patent Office. Affirmed.

Mr. C. T. Hawley for Morgan.

Mr. G. H. Kennedy, jr., for Drake et al.

GARRETT, *J.*:

This is a three-party interference proceeding involving alleged "useful improvements in grinding machines," being machines particularly for the grinding of internal surfaces.

On February 3, 1921, appellant filed an application in the Patent Office seeking a patent which was granted April 28, 1925, being No. 1,535,831, and on January 20, 1926, he filed an application for a reissue of No. 1,535,331, presenting therein claims corresponding to certain claims in a patent issued to one Prentice Conradson on April 21, 1925, being Patent No. 1,534,301, and prayed that an interference be declared between said Conradson patent and his (Morgan's) reissue application. At the time of the filing of this Morgan reissue application the Conradson patent was already involved in an interference proceeding with a pending application of Conradson's co-appellees, Alden M. Drake and Roy D. Hubbell, Serial No. 528,118, filed January 9, 1922. On March 8, 1926, following the filing of Morgan's reissue application the interference No. 53,010 was reformed and Morgan was added as a third party.

November 2, 1926, the Law Examiner rendered a decision dismissing the motions of Drake & Hubbell and Conradson to dissolve the interference and on December 1, 1926, the Commissioner denied a petition by them to exercise his supervisory authority. No testimony was taken in the case and on January 29, 1927, the Examiner of Interferences rendered his final decision awarding priority of invention to Myles Morgan, the senior party, and appellant herein. The junior parties thereupon appealed to the Board of Appeals, who, on December 12, 1927, rendered a decision reversing the Examiner of Interferences and denying priority of invention

to Morgan. The matter thus comes before us upon appeal from the decision of the Board of Appeals.

The counts of interference as set forth in the official declaration are as follows:

1. A grinding machine having, in combination, a carriage having an idle position and a position in which it reciprocates, a piston and cylinder unit for moving said carriage, a control valve connected to a source of pressure fluid and to said piston and cylinder unit, a valve operating device, means on said carriage for moving said device when the carriage is in its reciprocating position to automatically reverse said valve and effect reciprocation of said carriage, and means on the carriage for operating said device when the carriage is at its idle position to move said valve to its natural or inactive position and thereby stop reciprocation of said carriage.

2. A grinding machine having, in combination, a slidably mounted carriage, pressure fluid means for reciprocating said carriage including a control valve, a lever for operating said valve, and a stop on said carriage arranged to engage said lever and move said valve to neutral position to discontinue the movement of said carriage.

3. A grinding machine having, in combination, a reciprocatory carriage having an idle position and an operative position, pressure fluid means for moving said carriage including a control valve, an operating device for said valve, means on said carriage to actuate said operating device when the carriage approaches its idle position to move the valve to neutral position, and separate means on said carriage which automatically comes into operative relation to said operating device in the movement of said carriage from idle to operative position for automatically reciprocating said operating device to reverse said control valve and thereby effect continuous reciprocation of said carriage in its operative position.

4. A machine of the character described having, in combination, a carriage having an operative position and an idle position remote from said operative position, and mechanism arranged to reciprocate the carriage in its operative position, to return the carriage to its idle position and to automatically stop the carriage at its idle position.

It was the opinion of the Board of Appeals of the Patent Office that the original Myles Morgan patent failed to disclose the subject matter of his reissue claims and that he, therefore, had no right to make said claims, and in so holding the Board reversed the finding of the Law Examiner upon that question. It is essential that we pass upon this in determining the issue of priority. If Morgan had no right to make the claims in his reissue application, because their features were not properly disclosed, as required in the administration of the patent laws, in the patent upon which the reissue was filed then he can not be given priority. Obviously it is not necessary in interference cases to consider dates of conception and reduction to practice until it has been definitely determined that the thing conceived and reduced to practice is so similar in structure to the thing which it is sought to have declared an interference as that both conceptions read upon the count.

Section 4916 of the Revised Statutes, U. S. C. A., Title 35, section 64, provides:

Whenever any patent is wholly or partly inoperative or invalid, by reason of a defective or insufficient specification * * * if the error has arisen by inadvertence, accident or mistake and without any fraudulent or deceptive intention, the Commissioner shall * * * cause a patent for the same invention and in accordance with the corrected specification to be reissued * * * but no new matter shall be introduced into the specification, nor in the case of a machine patent shall the model or drawings be amended except each by the other.

The words, "the same invention" used in the statute, supra, received a construction by the Supreme Court of the United States in the case of *Parker & Whipple Co.* v. *Yale Clock Co.*, 41 O. G. 811, 123 U. S. 100, which has since been uniformly followed. Walker on Patents 5th ed. p. 299, section 233, discussing this decision says that it established the meaning of the phrase "the same invention" to be:

Whatever invention was described in the original Letters Patent, and appears therein to have been intended to be secured thereby * * *. Therefore, no reissue claim can stand any longer upon a model alone, nor even alone upon a drawing of an original patent, and indeed, neither models, drawing nor descriptions, nor all of them together, can support a reissue claim except where the description in the original Letters Patent shows that the invention covered by that claim was intended to be secured in the original.

The issue in this case has been rendered somewhat complex by the fact that in the patent specifications of Myles Morgan, No. 1,535,831, reference was made to certain prior patent applications of his father, Ralph L. Morgan, and with his reissue application Myles Morgan filed several drawings which did not appear with those of his original upon which Patent No. 1,535,831, was granted, but are substantially reproductions of drawings in the Ralph Morgan application. The original Myles Morgan patent shows one sheet of drawings containing four figures; his reissue application shows four sheets containing eleven figures. These seven extra figures are taken from the Ralph L. Morgan application. The specifications in the reissue application have likewise been added to by the inclusion of matter explanatory of these seven figures, which added specification matter covers eight pages of the record.

It is insisted by appellant that these additional drawings taken from the Ralph L. Morgan application (which as we understand it matured into Patent No. 1,633,557) and the added pages in the specifications, presented no "new substantive matter", but constituted—

merely an amplification of the disclosure of certain old elements, not in themselves new with Myles Morgan nor specifically claimed by him, but entering as old elements into the new combinations of the counts in issue, and included in the Myles Morgan invention and disclosure by specific reference to the Ralph Morgan application, now patented, and also by necessary implication.

Appellees, however, construe this act as being an introduction of new matter such as is expressly forbidden by the words of the statute:

No new matter shall be introduced into the specification, nor in the case of a machine patent, shall the model or drawings be amended, except each by the other.

They insist that by accepting this added matter, Rule 88 of the Patent Office, based upon the statute, and the statute itself were violated, and that it was error—

to indicate as allowable in said reissue application any claims that are dependent on said drawings for a disclosure of the said subject matter.

The Law Examiner, after saying:

The primary examiner held that the details contained in another case (evidently the Ralph Morgan patent) referred to in the patent application (of Myles Morgan) were in substance in the application,

adds:

Conceding that Myles Morgan is entitled to the benefit of the references to Ralph Morgan * * *. Recourse to the added description and illustration is * * * permissible to ascertain the functions of stop 78.

The Board of Appeals, however, says in its decision:

It is also our view that the additional drawings and amplified specifications appearing in the reissue application constitute new matter in the application. If there had been a clear indication in the original (Myles) Morgan patent that the invention of the interference counts was sought to be protected in the patent but was imperfectly illustrated and described that fact might justify the additional illustration and description. But we think there was no lack of illustration and description in the

original (Myles Morgan) patent of the invention which appears to have been intended to be secured by the patent. (Words in parenthesis inserted by us.)

The effect of this holding by the Board, stated in general terms, would appear to be that drawings and supplemental specification matter can be taken from other applications and patents for use in a reissue application but only in cases where the patent upon which the reissue application is based clearly discloses that the very subject matter (in this instance of the interference counts) was sought to be protected in the patent, and the sole function of such added matter is to supply defects in illustration and description. We think this a proper limitation. To give the added matter any broader scope or function would be to expand the statute beyond its purpose and intent.

The subject matter of the interference count must clearly have been disclosed in the patent upon which the reissue application is based, and it must clearly appear that the reissue applicant sought to secure protection of this particular subject matter in his original application just as he seeks it in the reissue application, and that his original patent failed to give this full protection for some one or more of the specific reasons which the statute mentions, such as inadvertence, accident, mistake, or other ground, recited in R. S. 4916, U. S. C. A., section 64.

This we think is the indisputable meaning of the statute, and this interpretation follows the doctrine of *Parker & Whipple Co.* v. *Yale Clock Co.*, supra, which doctrine is stated in numerous other cases many of them to be found cited in the "Notes of decision" under 35 U. S. C. A., section 64.

We do not mean to hold that the reissue provision of the law should be harshly construed or unduly limited, but, upon the other hand, neither the patent tribunals nor the courts have authority to expand or amplify these provisions beyond their plain meaning naturally construed.

Applying this rule to the facts of the instant case it does not appear to us that appellant can prevail. That which is sought in the reissue application does not seem to us to be—

> the same invention described in his original Letters Patent, and appearing therein as intended to be secured thereby.

Even if the supplemental matter contained in the drawings taken from the Ralph L. Morgan patent and the specifications based thereon were admitted as proper, we should still be of this same conclusion, under the facts appearing in the case.

We quote at length from the decisions of the Board of Appeals:

> As previously noted the interference counts originated in the Conradson patent and ordinarily the patent would be considered in reaching a conclusion as to the meaning and scope of the counts. The Conradson construction, however, is quite complicated while the Drake and Hubbell construction is relatively simple and readily understood. Since no question is raised as to the reading of the counts on the Drake and Hubbell construction with the same meaning that they have in the Conradson patent, the meaning and scope of the counts will be determined by a brief reference to the Drake and Hubbell disclosure.
>
> Count 1 includes first a carriage having an idle position and a position in which it reciprocates. The carriage is shown in Figures 1 and 2, the idle position being that in which the stop 48 is effective, the position in which the carriage reciprocates being that measured or limited by the stops 46 and 47, all of the stops being shown in Figure 2. The count then recites a piston and cylinder unit for moving the carriage. This feature is shown in Figure 1. The control valve next included in count 1 is designated 8 connected to a shaft 28 on the outer end of which is a lever 34 capable of movement in various directions and releasably interlocked with another lever 40 extending into the path of travel of the stops 46, 47, 48. During the normal operation of the device alternate engagement of the upper end of lever 40 by stops 46 and 47 on the carriage will as stated in the count automatically reverse the valve and effect reciprocation of the carriage. However, if it is desired to allow travel of the carriage to the so called idle position where it may be stopped, lever 34 is disengaged from lever 40 manually and the carriage allowed to advance so as to bring the latter lever into the field of stop 48 with consequent actuation of valve lever 34 by contact therewith of pin 50 carried by lever 40. The actuation of lever 34 in the manner indicated moves valve 8 into a neutral or inactive position and thereby stops reciprocation of the carriage.
>
> Count 2 does not include the means for controlling the movement of the carriage in the position in which it reciprocates but includes a lever controlled valve brought into neutral position to stop the movement of the carriage, the lever being actuated by a stop on the carriage.
>
> Counts 3 and 4 are drawn along lines generally similar to counts 1 and 2, count 3 being like count 1 and count 4 like count 2. All of the counts include definite limitations to stopping the carriage and counts 1 and 3 recite in greater or less detail the general organization of the carriage reciprocating and controlling mechanism.
>
> Coming now to a consideration of the Morgan reissue application and the grounds of appeal generally stated above it is our conclusion that if the question of same invention is to be determined by a comparison of the claims of the original Morgan patent with the interference counts the invention of the patent and that of the interference issue is not the same. • • • The three claims of the original Morgan patent are directed to the combination of a reciprocating table, a work-holding head and a cover or guard for the head so mounted and connected that the cover will be automatically opened when the table moves to retracted position. Claims 1 and 2 of the patent are limited solely to the combination just referred to. They do not include either directly or by implication the stopping of the table. Claim 3 is generally the same as claims 1 and 2 in so far as the specific limitations to cover or guard construction are concerned. Claim 3 in addition to the limitations as to cover or guard construction specifies a limiting stop for determining the retracted position of the reciprocating tables. As above noted there is in claim 3 no limitation to stopping the table and the stop broadly included might be a reversing stop for effecting reciprocation of the table. The decision of the Law Examiner states on page 6 thereof that if the validity of the Morgan reissue application were dependent on claiming more than is described and claimed in the original patent the earlier leading cases relating to the issues would justify a holding that such reissue as is presented here, if granted, would be invalid. But the Law Examiner suggests that later decisions of the courts are more liberal and are controlling here. The Law Examiner cites in support of this conclusion the cases of *In re Briede*, 1906 C. D., 677 and *In re Heroult*, 1907 C. D., 521. It is sufficient to note here that in both the cited cases there was a clear disclosure of the subject matter claimed and in one of them it was held that the invention claimed in the reissue was in substance and effect the same invention as that claimed in the original patent. In the original Morgan patent the essential and vital element of all the claims was the cover or door. In the claims of the Morgan reissue application with which we are concerned there is no hint of this vital and essential element but a distinctly different combination is claimed. Touching the disclosure of the original Morgan patent aside from the claim we fail to find any basis for the claims of the reissue application involved in interference. • • • The only construction shown and described in the original Morgan patent which remotely relates to the invention involved in interference, under the interpretation placed on the patent by counsel for Morgan, is the stop 73 mounted on the carriage and described in line 99 and following of page 1 of the specification of the original Morgan patent. • • • It will be noted that the matter just quoted does not state that the contact of the stop 73 with the arm 74 stops the movement of the work table. Not only is this true but there is no explanation of the manner in which the parts function. • • • Morgan realised when he filed the reissue application that there was no sufficient basis in the original patent for the claims copied from the Conradson patent. Three sheets of drawings were added to the single sheet constituting the illustration of the original patent and the specification of the reissue was correspondingly amplified. The added drawings correspond to certain of the drawings of the Ralph L. Morgan application • • •. The amplification of the specification of the original Morgan patent included a detailed description of the mechanism for controlling the reciprocation of the work-table and also specific statements that contact of stop 73 with arm 74 on lever W stops the movement of the work-table. • • • The drawings of the reissue application do not disclose except by implication the relation of the stop 73 to the stops which control the ordinary reciprocation of the work-table. • • • We note a distinction between a mere disclosure of an invention and an indication that the invention was intended to be protected by the patent. Even if it be admitted that the invention of the claims under consideration can be spelled out of the specification and drawing of the original patent, and we think it cannot, that is not the same thing as an indication that the patent sought to protect the invention in question. • • • It is our view that lines 11 to 25, page 2, of the original Morgan patent describe automatic reversal of the carriage. No good reason is seen why stop 73 will function differently from stop 76. • • • In any event there is too much uncertainty about the operation of the stop 73 of the Morgan reissue application to justify an award of priority in favor of Morgan. Where a party seeks through a reissue application to secure in award of priority over a regularly issued patent or an application clearly disclosing the subject matter in controversy there should be no uncertainty as to the nature of the disclosure of the reissue application. In our judgment certainty of disclosure of the subject matter in issue is not present in the Morgan application.

From our examination of the various drawings, claims and specifications we see no error in the Board's findings of fact and we think they have correctly stated the applicable law and have properly distinguished the instant case from the authorities cited by appellant.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE PRICE AND RIPSCH

No. 2,206. Decided December 30, 1929

[36 F. (2d) 482]

PATENTABILITY—AIR-DRIVEN IMPLEMENT.

Claims for an air-driven implement or tool: *Held* patentable over the prior art since the complete structure as claimed is not shown by any of the patents cited nor the modification of any one of them to obtain that structure suggested by the others.

APPEAL from the Patent Office. Reversed.

Mr. H. A. Toulmin and *Mr. H. A. Toulmin, Jr.*, for Price and Ripsch.

Mr. T. A. Hostetler and *Mr. Howard S. Miller* for the Commissioner of Patents.

GARRETT, *J.*:

This is an appeal from the Board of Patent Appeals affirming the decision of the Examiner rejecting claim 7 of appellant's application for patent for air-driven implements or tools, which decision of the Board was rendered February 23, 1928.

The claim in issue reads:

> In an implement of the character described, a rotor comprised of a solid shaft and a rotor body carried thereby, and having a series of longitudinal air chambers in the body, each chamber having an inlet and one or more outlet ports, and having also a series of piston chambers, a piston in each chamber, and a port between each piston chamber and air chamber, and a series of lubricant chambers and reservoirs with ports between them.

The Board cited as references: Darlington, 1,041,040, October 15, 1912; Mills et al., 1,053,055, February 11, 1913; Hauer, 1,102,742, July 7, 1914, Overly 1,104,070, July 21, 1914; Gressle et al., 1,322,107, November 18, 1919.

In its decision the Board states that the patents to Darlington and Mills are merely cited to show other motors having lubricating chambers to supply lubricant to the rotor and that these are not as pertinent as the other patents cited. The Board also found that no lubricating means are disclosed in the patent to Overly; no lubricant chambers called for by the claim of Hauer, and that the rotor of Gressle et al. has a series of lubricant chambers which are independent of each other but not connected with ports between them.

The analytical statement of the claim in issue, made in the brief of appellant asserts the presence of the following elements:

A. Solid shaft.
B. A rotor body having:
1. A series of longitudinal air chambers.
2. An inlet port for each air chamber.
3. One or more outlet ports for each air chamber.
4. A series of piston chambers.
5. A piston in each chamber.
6. A port between each piston chamber and air chamber.
7. A series of lubricant chambers.
8. A series of reservoirs.
9. Ports between the lubricant chambers and the reservoirs.

The Solicitor for the Patent Office during argument supplied the court with a reading which was prepared to show the elements identified in appellant's disclosure and the references. This reading we quote in full:

> After each element the first parentheses contain the reference numeral identifying the element in appellant's disclosure and the second parentheses the corresponding reference numeral of the reference patent.
>
> Claim 7. In an implement of the character described a rotor (4) (4 of Hauer) comprised of a solid shaft (21) (*shaft in bushing 11 of Hauer*) and a rotor body (4) (4 of Hauer) carried thereby, and having a series of longitudinal air chambers (27) (13 of Hauer, Fig. 5), in the body, each chamber having an inlet (28) (left end of 13 of Hauer, Fig. 5, unnumbered) and one or more outlet ports (29) (14, 14 of Hauer), and having also a series of piston chambers (30) (8 of Hauer, Fig. 2) a piston (31) (7 of Hauer) in each chamber, and a port (32) (25 of Hauer) between each piston chamber and air chamber, and a series of lubricant chambers (37) and reservoirs (39) (23 of Gressle et al. are both chambers and reservoirs) with ports (38) (no corresponding element in reference but held uninventive between them. (Italics ours.)

It will be noted that we have italicized the words "shaft in bushing 11 of Hauer" in the foregoing quotation. This element seems to be a pivotal feature of the controversy, and unless it can be held to be identical, in the sense of the patent law, with the "solid shaft" of appellant we do not find in any of the references any anticipation of said shaft.

The language of the Hauer specification relative to this element is:

> The rotary motor member may be mounted upon a shaft; but I preferably form said member with front and rear journals integrally therewith of less diameter than the body thereof as shown. A motor journal bearing member 9 is seated in one part of the casing 3 and a removable bushing 10 is preferably provided to carry the rear journal of the rotary motor member; and a removable bushing 11 seated in an opening in the head of the other part of said casing is provided to carry the front journal of said rotary motor member. Said front journal portion projects through said head and is screw-threaded at 12 to attach a tube cleaner or other tool to be driven.

No one of the Hauer claims uses the word "shaft," and the member called for in them as the one upon which the rotary motor is mounted (being evidently the member or part bearing in the bushing) is otherwise designated and described. The only place in the specifications or claims where the word shaft occurs is as quoted, supra.

In the specifications of appellant we find the following relative to the shaft claimed in No. 7:

> Referring now to the rotor we would state that it is composed of a central shaft 21 having at each end a ball-bearing ring 22 mounted to rotate on the balls 23 held in ball races 24 secured in any convenient manner, respec-

tively, in the handle section 1 and the driven shaft section 3 as best seen in Figures 1 and 5. This shaft 21 may be integral with the rest of the rotor or be a separate shaft, fitted firmly in the body 4 of the rotor and held by a key 21^a.

The Board of Appeals held:

To connect Gressle's rotor with a solid shaft as shown in Hauer and connect the lubricant chambers with each other by passages not disclosed in Gressle would not, in our opinion, involve invention. Or, stating it in another way, to introduce into Hauer or Overly the lubricating chambers of Gressle would not involve invention.

In answer to this finding of the Board of Appeals, appellant argues:

'Suppose the alleged solid shaft of Hauer were introduced into the rotor body of Gressle, what would the resulting structure be? It is noted that the shaft of Gressle is hollow, and through this hollow shaft the actuating fluid is fed. Suppose that this shaft were solid, as the alleged Hauer shaft, there would be no possible means of providing the rotor with actuating fluid. All means of fluid access to the rotor would be absolutely destroyed. It seems that this substitution, suggested by the Board, would reduce the Gressle device to a mass of unrelated parts, and would render the suppositious structure absolutely inoperative and worthless.

Suppose, for instance, that the shaft of Hauer were not solid, and in fact, it is not solid, and it were introduced into the rotor body of Gressle. In this case, if the rotor shaft is integral with the rotor, the result would be the Hauer device, but if the shaft and the rotor are not integral there would be produced another Gressle device without the Gressle means to control the admission of air to the rotor; there would be no flat sides on the rotor shaft. In neither case would appellant's device be produced.

A close analysis of the claim 7 shows that it calls for a rotor containing a solid shaft, the rotor body having the nine separate and distinct cooperating features as given, supra, and the claim is drawn to the structure of a rotor which includes the features that are essential to make it operable including means for lubrication.

The solid-shaft feature of the claim does not appear in any of the references cited. Its only suggested equivalent is an element contained in the Hauer patent and referred to in the brief in behalf of the Commissioner as "the part bearing in the bushing." It does not seem to us, from our understanding of the functioning of the machine, that this element is the mechanical equivalent of the shaft of the claim.

We think it is correctly stated by appellants that the complete structure set out in the claim is not shown by any of the patents cited, nor does it appear that the structure of one can be so modified by substituting features or elements in the structure of the other as to produce the machine claimed by appellants. It does not seem to us that the element referred to as the one "bearing in the bushing" of the Hauer patent could be substituted for the shaft of the claim or vice versa so as to produce an operative device, without further and very material modification.

An examination of the drawings and specifications leads us to the conclusion that appellants have produced a rotor body mounted on a solid shaft which body has features or parts in combination for lubrication and operation not shown in the references cited and containing invention as expressed in the claims, for which patent should be allowed.

The decision of the Board of Patent Appeals is therefore reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE NISSEN

No. 2,175. Decided December 30, 1929

[36 F. (2d) 434]

PATENTABILITY—METHOD OF KNITTING STOCKINGS AND KNITTED STOCKING BLANK.

Claims for a method of knitting stockings with low sole sides and for a knitted stocking blank *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. B. G. Foster for Nissen.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from the decision of the Board of Appeals rejecting the claims of appellant, nine in number, six of which are method claims and three product claims. They relate to stockings and the method of making the same.

Claims 1 and 7 are illustrative of the two groups of claims and read as follows:

1. The method of knitting stockings with low sole sides, which consists in knitting a flat full-fashioned leg blank with opposite heel reenforcements, knitting spaced heel extensions to said reenforcements, knitting to the inner side edges of said heel extensions spaced sole-heel sections that taper outwardly and knitting a foot top section to and between the said sole sections.

7. A knitted stocking blank comprising a flat knitted leg having reenforcements in its opposite lower corners and outwardly extending heel extensions joined to the lower edges of said reenforced corners, sole strips knitted to the lower edges of said heel extensions and having their inner rear corners joined to the inner lower corners of the heel reenforcements, the rear portions of said sole strips tapering forwardly and outwardly, and a foot top section knitted to and between the sole sections and to the lower end of the leg between the reenforcements.

The references cited are: Gee, 924,605, June 8, 1909; Landenberger, 1,111,658, September 22, 1914; Smith, 1,120,419, December 8, 1914.

Appellant's application discloses a stocking and method of making the same in which the heavy sole of a full-fashioned stocking can be made low at the sides while at the same time the heel and toe are properly reinforced at the points of wear.

Appellant, in carrying out the claimed method, knits a full-fashioned leg blank with opposite heel reenforcements and spaced heel extensions. These spaced heel extensions are then bent outward, so that the inner edges of the extensions will be in line with the lower end of the leg section proper and then knitting to the lower edge of the leg section a foot top, and sole-heel sections to the spaced heel extensions above mentioned. The sole-heel sections taper outwardly and downwardly, producing the low sole sides referred to in claim 1. Toe sections are knitted as extensions of the sole-heel sections and the latter sections increase in width as they approach the toe sections, the foot top section being correspondingly lowered. Claims 1 to 6 inclusive are directed to the method, while claims 7, 8 and 9 are for the stocking produced by the method of the preceding claims.

In its decision the Board of Appeals said, with regard to the method claims:

Generally speaking, a stocking having reinforced heel, sole and toe portions with low sides similar to that claimed here is disclosed in the patent to Smith cited by the Examiner, the particular part relied on being that disclosed in Figure 6 of the drawing of the patent. In the patent the stocking is produced by circular as distinguished from flat full fashioned knitting.

* * * * * * *

The Landenberger patent discloses a flat full fashioned stocking leg blank with opposite heel reinforcements and spaced heel extensions in all substantial respects like that disclosed in appellant's Figure 1. The patent also shows a sole, toe and foot top knitted to the leg and heel blank, but the manipulative steps employed in the knitting are not disclosed.

The Gee patent discloses in Figures 4, 5 and 6 the manner in which sole-heel, foot top and toe portions are connected to a leg and heel-blank and the specification of the patent states, see line 21 and following of page 3, that the heel web may be knit with heavy or reinforced yarn. We think it is not unwarranted to assume that both Gee and Landenberger would knit the heel, sole and toe portions of stockings with reinforced yarn. In any event it is our view that patentability of the claims on appeal can not be predicated on reinforcing any part of a stocking where reinforcement may be found necessary.

With respect to the method claims appellant contends that the various steps recited therein are not disclosed in the prior art. It is our view that, aside from the manipulation of the yarn to produce the low sole sides, the steps employed by appellant are the conventional steps in flat full fashioned knitting and are disclosed in the patents to Landenberger and Gee. We do not think it is material to the pertinency of the Gee patent as a reference that the leg portion of the stocking blank is knitted by circular knitting. Gee recognizes, see line 123 and following page 3 of the specification, that it is common practice to knit stocking blanks on flat knitting machines. For special reasons the patentee, in the disclosed embodiment of the invention, preferred to knit the leg portion of the stocking on a circular machine. There is a clear disclosure in the Gee patent of the steps of swinging outward the heel cheeks 12^a, 12^b and knitting to them the foot and toe sections 23, 23 with a foot top 22 knitted to the lower edge of that part of the leg blank between the heel cheeks. The Gee patent also discloses the seaming of the various portions of the stocking together from the toe to the top of the leg portion along a longitudinal median line. As heretofore noted there is a suggestion in the Gee patent of the employment of reinforcing yarn in the heel portion of the stocking and we again express our belief that in the present development of the art of knitting stockings there is nothing inventive in reinforcing any part of a stocking where it may be found necessary or desirable.

If any question exists as to the fact that the steps of appellant's method, aside from those employed to produce the low sole sides, are conventional, reference may be had to the publication "Full-Fashioned Knitting Machines," copyright 1920, pages 11 and 12 of the publication. A copy of the publication may be found in Division 21 of this Office. So far as the limitation in the method claims to the step which results in the production of low sole sides is concerned we think that limitation is responded to by the Smith patent and particularly Figure 6 of the patent with the description relating thereto. The description is contained between line 90 of page 3 and line 4 of page 4. It seems to us to be uninventive to apply the low sole side feature of the circular knit stocking of Smith to a flat full fashioned stocking blank such as would be produced by the processes of the Gee and Landenberger patents. The steps in claims 5 and 6 of increasing the width of the sole strips and decreasing the width of the foot top section as the toe section is approached were features included in the claims appealed in companion case Serial No. 467,550 although the language of the claims in the two cases is not the same. We think the method claims 1 to 6 inclusive were properly rejected as lacking invention over the prior art.

Appellant does not dispute in his brief, nor did he upon the argument, that the various steps of his method, aside from those employed to produce the low sole sides, are conventional as found by the Board of Appeals, but he does contend that he is the first person who has ever shown to the knitting art how to produce low soles in full-fashioned hosiery, and that while low soles are old in the prior art in circular-knitted hosiery, it nevertheless involves invention to produce them in full-fashioned hosiery.

This is the sole question before us so far as the method claims are concerned. The Board found upon this question that the Smith patent disclosed the low sole side feature both in the specification and drawings in a circular-knit stocking; that in the Landenberger and Gee patents the steps employed by appellant are disclosed except as to the manipulation of the yarn to produce the low sole sides, and that as to such manipulation the method as explained in the Smith patent suggests the method found to be lacking in the Landenberger and Gee patents.

Appellant contends that the Smith patent carries no such suggestion; that it discloses an entirely different method of manufacturing which could not be applied to the flat-knitting methods of Landenberger and Gee. We are unable to adopt this view. The Smith patent clearly discloses the method of producing low sole sides in circular knitting. The Board of Appeals held that, applying the method of Smith in producing the low sole sides to the methods of Gee and Landenberger in producing full-fashioned stocking blanks would not constitute invention, and that such combination is substantially what is covered by appellant's application, so far as method of production of low sole sides is concerned.

We agree with this conclusion of the Board.

As to the article claims, 7, 8, and 9, we agree with the Board that they lack invention over the stocking shown in the Smith patent. The distinction between the two articles lies in method rather than structure. While these claims describe the article as a knitted stocking blank, if there be no invention in the completed stocking, merely calling the article a blank, because the final step toward completion has not been taken, does not bring it within the scope of invention.

The decision of the Patent Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,025,822, W. H. Millspaugh, Paper-making machine; 1,163,251, same, Paper making, D. C., W. D. Mich. (S. Div.), Doc. 2229, *The Guardian Trust Co. et al.* v. *Bryant Paper Co.* Dismissed without prejudice Feb. 4, 1930.

1,163,251. (See 1,025,822.)

1,163,251, W. H. Millspaugh, Paper making; 1,163,253, same, Paper-making machine, D. C., W. D. Mich. (S. Div.), Doc. 2228, *The Guardian Trust Co. et al.* v. *Kalamazoo Vegetable Parchment Co.*; Doc. 3387, *The Guardian Trust Co. et al.* v. *Port Huron Sulphite & Paper Co.* Both dismissed without prejudice Feb. 3, 1930.

1,163,253. (See 1,163,251.)

1,172,808, 1,249,129, 1,255,896, 1,336,570, Lathrop and Paulson, Can-washing machine; 1,247,692, same, cover-applying mechanism for can-washing machines; 1,249,130, same, Feeding mechanism for can-washing machines; 1,525,304, same, Solution process; 1,444,929, C. F. McEwan, Can-reversing mechanism; 1,649,073, same, Can conveying, inverting, and discharging mechanism; 1,445,776, H. D. Lathrop, Can-inverting means, filed Jan. 28, 1930, D. C., N. D. N. Y., Doc. 1822, *H. D. Lathrop* v. *Kendall-Lamar Corp.*

1,217,128, L. White, Method of providing substitutes for structures, filed Feb. 1, 1930, D. C., S. D. N. Y., Doc. E 52/16, *L. White* v. *Goldberger-Roabin Co., Inc.*

1,242,872, 1,357,521, C. Saunders, Self-serving store; 1,297,405, same, Price-tagging means, filed Jan. 28, 1930, D. C., N. D. Tex. (Fort Worth), Doc. E 597, *Piggly Wiggly Corp.* v. *Help-Self-y Co.*

1,247,692. (See 1,172,808.) 1,249,129. (See 1,172,808.)

1,249,130. (See 1,172,808.) 1,255,896. (See 1,172,808.)

1,297,405. (See 1,242,872.)

1,307,733 (*a*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, lubricating means, D. C., S. D. N. Y., Doc. E 46/139, *Alemite Mfg. Corp.* v. *H. Blumenkoff.* Decree for plaintiff Feb. 4, 1930.

1,307,733 (*b*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, Lubricating apparatus, D. C., S. D. N. Y., Doc. E 51/135, *Alemite Mfg. Corp.* v. *N. Rockmore et al.* Decree for plaintiff Feb. 1, 1930.

1,307,734. (See 1,307,733 (*a*) and (*b*).)

1,313,080, L. H. Ensten, Knitted cap, C. C. A., 2d Cir., Doc. 10746, *L. H. Ensten et al.* v. *S. Ascher & Co., Inc.* Decree affirmed (notice Feb. 3, 1930).

1,315,492, Healy and Healy, Radiator hanger, D. C., Minn. (4th Div.), Doc. E 553, *D. L. Healy et al.* v. *American Plumbing & Heating Co. et al.* Dismissed Feb. 4, 1930.

1,336,570. (See 1,172,808.) 1,357,521. (See 1,242,872.)

1,444,929. (See 1,172,808.) 1,445,776. (See 1,172,808.)

1,475,980. (See 1,307,733 (*b*).)

1,525,304. (See 1,172,808.)

1,595,426, T. B. Slate, Refrigerating apparatus, C. C. A., 2d Cir., Doc. 10433, *American Patents Development Corp.* v. *Carbide Corp. of America.* Decree reversed (notice Feb. 3, 1930).

1,632,208, Watson and Culver, Lens, D. C., S. D. Ohio (W. Div.), Doc. E 602, *United Kingdom Optical Co., Ltd., et al.* v. *G. M. Stannard et al.* Patent held valid and infringed (notice Feb. 4, 1930).

1,634,705, H. M. Bridges, Drainer, filed Jan. 31, 1930, D. C., W. D. Mich. (S. Div.), Doc. 2316, *The Silex Co.* v. *The Javet Co., Inc.*

1,649,073. (See 1,172,808.)

1,687,370, J. R. La Vigne, Suspender-end loop, filed Feb. 5, 1930, D. C., S. D. N. Y., Doc. E 52/23, *The Waterbury Buckle Co.* v. *A. Klaristenfeld (Metropolitan Sys-pender Co.).*

1,706,944, L. H. Wessel, Machine for refining paper and pulp, filed Feb. 3, 1930, D. C., S. D. Ohio (W. Div.), Doc. E 654, *Hermann Mfg. Co.* v. *The Black Clawson Co.*

1,725,787, G. H. Ellis, Building construction, filed Feb. 3, 1930, D. C., Minn. (4th Div.), Doc. 1579, *The Insulite Co.* v. *Reserve Supply Co.*

Re. 16,566, E. S. Ward, Bathing shoe, filed Feb. 4, 1930, D. C., S. D. N. Y., Doc. E 52/22, *E. S. Ward* v. *Miller Rubber Co.*

Des. 72,989, P. Cricchio, Tray; Des. 73,068, same, Candlestick, D. C., S. D. N. Y., Doc. E 45/269, *Sun Rise Lamp Mfg. Co., Inc.*, v. *Aljac Lighting Fixture Co., Inc.* Decree for plaintiff Feb. 4, 1930.

Des. 73,068. (See Des. 72,989.)

Disclaimers

1,562,119.—*Lewis C. Myers*, Freeport, and *George F. Handley*, Glendale, N. Y. TYPEWRITING MACHINE. Patent dated November 17, 1925. Disclaimer filed March 25, 1930, by the assignee, *Royal Typewriter Company, Inc.*

Hereby disclaims the following claims, to wit:

"23. In a typewriting machine embodying type bars which occupy an oblique position when at the printing point and an abutment for limiting the movement of said bars to such position, the combination of a carriage having case shift movement, supports therefor, a platen supported by said carriage and means for mounting said supports for adjustment as a unit in an oblique direction independent of the case shift movement to afford full impressions of the type bars on the platen.

"24. In a typewriting machine embodying type bars which occupy an oblique position when at the printing point and an abutment for limiting the movement of said bars to such position, the combination of a carriage, having case shift movement, supports therefor, a platen supported by said carriage, and means for adjusting said supports as a unit in an oblique direction independent of the case shift movement to afford full impressions on the type bars on the platen."

"28. In a typewriting machine, the combination of swinging type bars which occupy an oblique position when at the printing point, a platen mounted for case shift movement, supports therefor, and means for mounting said supports on the main frame of the machine for adjustment as a unit in an oblique direction independent of the case shift movement to afford full impressions of the type bars.

"29. In a typewriting machine, the combination of swinging type bars which occupy an oblique position when at the printing point, a platen mounted for case shift movement, supports therefor, and means for adjusting said supports on the main frame of the machine as a unit in an oblique direction independent of the case shift movement to afford full impressions of the type bars.

"30. In a typewriting machine, the combination of swinging type bars which occupy an oblique position when at the printing point, a platen mounted for case shift movement, supports therefor, means for adjusting said supports on the main frame of the machine as a unit in an oblique direction independent of the case shift movement to afford full impressions of the type bars, and means for holding the supports in adjusted position."

1,692,661.—*Marsden O. Hutto*, Detroit, Mich. COMBINED ABRASIVE AND CARRIER. Patent dated November 20, 1928. Disclaimer filed March 26, 1930, by the assignee, *Hutto Engineering Company, Inc.*

Hereby enters this disclaimer to all of the claims of said specification, which disclaimer is in the following words, to wit: hereby disclaims as to each of the said claims any and all abrasive and holder assemblies except wherein the stone is permanently positioned by the self-hardening material or solder in the holder with the working face or abrading surface in the position referred to in each claim by a form or mold casting operation and the self-hardening material or solder is employed in a substantial amount so as to form a spacer between all the adjacent surfaces of the stone and the holder.

1,706,627.—*Albert D. McGibbon*, Plainville, Conn. ELECTRIC SWITCH. Patent dated March 26, 1929. Disclaimer filed March 19, 1930, by the assignee, *The Trumbull Electric Manufacturing Co.*

Hereby enters this disclaimer as to the subject matter of claims 6 and 7 of said patent except as the said claims are construed to cover a construction in which the stationary contacts and the movable switch member are located on the front of the insulating body and the crank is mounted at the rear of the body with a connector passing through the body from the front to the rear.

Interference Notice

U. S. PATENT OFFICE, *Washington, Mar. 19, 1930.*

Washoff Products Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of George A. Hornbecker, 99 Wheeler St., Waterville, Conn., for registration of a trade-mark and trade-mark registered October 28, 1924, No. 190,851, to Washoff Products Company, Lima, Ohio, and a notice of such declaration sent by registered mail to said Washoff Products Company, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Washoff Products Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 8, 1930

[VOL. 393. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 292,760. TENNESSEE MINERAL PRODUCTS CORPORATION, Spruce Pine, N. C. Filed Nov. 22, 1929.

MINPRO FELDSPAR

No claim is made to the word "Feldspar" except as associated with the other feature of the mark.
For Ground Feldspar.
Claims use since 1925.

Ser. No. 294,735. THE MICHIGAN CITY TANNING COMPANY, Michigan City, Ind. Filed Jan. 13, 1930.

CORDOLUX

For Leather.
Claims use since Nov. 1, 1928.

Ser. No. 295,369. CARL FREUDENBERG, INCORPORATED, Boston, Mass. Filed Jan. 30, 1930.

Odin

For Leather.
Claims use since 1922.

Ser. No. 295,727. DICKINSON FUEL COMPANY, Charleston, W. Va. Filed Feb. 7, 1930.

EVERHOT

For Coal.
Claims use since Oct. 15, 1929.

Ser. No. 295,860. NORTHWESTERN LEATHER COMPANY TRUST, Boston, Mass. Filed Feb. 10, 1930.

NOWESCO

For Leathers.
Claims use since on or about October, 1926.

Ser. No. 295,861. NORTHWESTERN LEATHER COMPANY TRUST, Boston, Mass. Filed Feb. 10, 1930.

RUSSIDE

For Leathers.
Claims use since on or about October, 1926.

Ser. No. 295,905. MICHAEL MILLER FUR DYEING CORPORATION, New York and Brooklyn, N. Y. Filed Feb. 11, 1930.

FUCHIA

For Fur Skins.
Claims use since Oct. 3, 1929.

Ser. No. 296,252. BACMO-POSTMAN CO. INC., New York, N. Y. Filed Feb. 20, 1930.

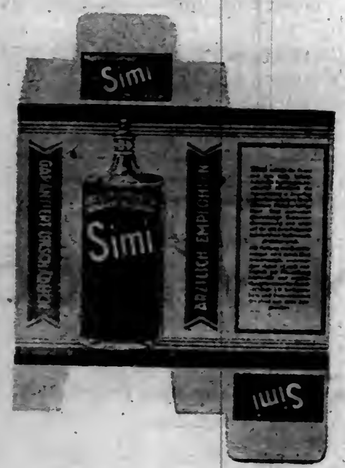
DOVELLE

For Glove Leather,
Claims use since about January, 1925.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 268,266. BERLINER COSMETISCHES LABORATORIUM BERZINSKI & RICHTER, Berlin, Germany. Filed June 19, 1928.



No claim is made to the outline of the carton or to any of the wording appearing on the drawing except the word "Simi." No claim is made to the representation of the bottle shown on the drawing apart from the rest of the features shown.

For Skin Balm, Perfumes, and Complexion Lotions, Creams, and Powders.

Claims use since Mar. 11, 1927.

Ser. No. 279,191. ANTHONY M. ODOM, Jr., doing business as Hemostat Products Co., Jackson, Miss., assignor to Minnie May La Grove, Blackwell, Okla. Filed Feb. 11, 1929.

Hemostat

No claim being made to the word "Hemostat" apart from the mark shown on the drawing.

For Preparation for Use in Operations for Tonsilitis and Adenoids, for Cuts of All Kinds, Teeth Extractions, Bleeding Gums, Bleeding or Oozing Surfaces, and Hemorrhages of the Bowels and Bladder.

Claims use since June 15, 1928.

Ser. No. 279,512. PETER WENNER, Bozeman, Mont. Filed Feb. 16, 1929.

Wenner Piles Preparation



The portrait shown on the drawing is that of the applicant and no claim being made to the words "Piles Preparation" apart from the mark shown on the drawing.

For Preparation for Piles in Liquid and Capsule Form.

Claims use since Aug. 1, 1927.

Ser. No. 283,420. THE SILICA GEL CORPORATION, Baltimore, Md. Filed May 2, 1929.

SILICA GEL

The word "Silica" apart from the mark as shown is disclaimed.

For Hard, Solid, Vitreous Adsorbent Material Consisting of Dried Silicic Acid.

Claims use since Dec. 31, 1928.

Ser. No. 284,075. MYRURGIA S. A., Barcelona, Spain. Filed May 15, 1929.

MORISCA

For Perfumes and Face Powder.

Claims use since June, 1917.

Ser. No. 286,939. KARLSRUHER PARFÜMERIE- & TOILETTE-SEIFEN-FABRIK F. WOLFF & SOHN G. M. B. H., Karlsruhe, Germany. Filed July 11, 1929.



No claim is made to the exclusive right to the use of the word "Pine" apart from the mark shown.

For Toilet Preparations, Toilet Water, and Bath Salts.

Claims use since 1906.

Ser. No. 287,683. EUGENE VON SCHALLERN, doing business as Schallern's Drug Store and Von Schallern Drug Co., Ripon, Wis. Filed July 25, 1929.

VON SCHALLERN'S



ORANGE BROMO

No claim is made herein to the words "Von Schallern's" nor to the words "Orange Bromo" except in connection with the trade-mark as shown.

For Effervescent Powdered Salt for the Relief of Headache, Neuralgia, and Sour Stomach, and as an Aid to Digestion.

Claims use since Jan. 1, 1929.

Ser. No. 287,744. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed July 27, 1929.

Vanillose

For Odoriferous and Aromatic Chemicals Used in the Preparation of Perfumes and Flavoring Extracts.

Claims use since about March, 1929.

Ser. No. 289,046. JOHN SALVO, doing business as F. J. Salvo & Son, St. Louis, Mo. Filed Aug. 26, 1929.

NORTH POLE

The trade-mark as used and as illustrated in the drawing consists of a black background bordered with red, including the initial letters "N" and "P," the remaining letters of the mark being white.

For Antifreeze Mixture for Automobiles.

Claims use since Sept. 1, 1928.

Ser. No. 289,068. LOUIS FEINSTEIN, doing business as Scientific Research Laboratories, Los Angeles, Calif. Filed Aug. 27, 1929.

UVALE

For Digestive Tonic.

Claims use since Aug. 12, 1929.

Ser. No. 290,026. KOTEX PHARMACAL COMPANY, Maspeth, N. Y. Filed Sept. 20, 1929.

KOTEX

For Vaginal Suppositories and Antiseptic.

Claims use since Oct. 23, 1928.

Ser. No. 290,286. ABRAHAM KAHANE, Winnipeg, Manitoba, Canada. Filed Sept. 26, 1929.

Fluid-d'or

The word "Fluid" is disclaimed except in the association shown.

For Chemical Preparations: Pine-Needle-Extract Bath Tablets Used for Invigorating and Stimulating Effect and to Relieve Rheumatism, Sciatica, and Insomnia; Medicated Foot-Bath Tablets Used to Relieve Burning and Tired Sensation in Feet and Excessive Perspiration; Assorted Odors of Perfumed Bath Tablets Used for Invigorating and Stimulating Effect and to Relieve Rheumatism, Sciatica, and Insomnia; Disinfecting Solution Used for General Disinfecting Purposes.

Claims use since Jan. 1, 1927.

Ser. No. 291,586. THE SILICA GEL CORPORATION, Baltimore, Md. Filed Oct. 25, 1929.

SILICA GEL

The word "Silica" apart from the mark as shown is disclaimed.
For Hard Solid Vitreous Adsorbent Material Consisting of Dried Silicic Acid.
Claims use since Aug. 1, 1929.

Ser. No. 291,631. MODERN PHARMACAL CO. INC., New York, N. Y. Filed Oct. 26, 1929.

PERFO KOLA

No claim being made to the exclusive use of the word "Kola" apart from the mark as shown in the drawing.
For Tonic and Preparation for the Treatment of Nervous Diseases and Indigestion.
Claims use since December, 1928.

Ser. No. 291,918. FRIEDA HEMPEL INC., New York, N. Y. Filed Nov. 2, 1929.

FRIEDA HEMPEL

For Cosmetics—Namely, Toilet Creams, Toilet Lotions and Astringents, Face Powder, Liquid Face Powder, Dusting Powder, Lip Sticks, Preparations for Darkening the Eyelashes and Eyebrows, Rouges.
Claims use since Aug. 1, 1929.

Ser. No. 291,938. NATHANIEL J. SEGAL, doing business as Jend Drug Company, Baltimore, Md. Filed Nov. 2, 1929.

U-CO

For Digestive Compound, Mouth Wash, Pile Ointment, Laxative Pills, Drawing Salve, Liquid for the Hair, Nasal Oil, a Medicine to Relieve Itching of the Skin from Poison Oak and Ivy Poisoning, Mineral Oil for Lubricating the Intestines for Treatment for Constipation, Liniment for Relieving Muscular Aches and Pains, Eye Wash, Skin Lotion, Diarrhea Medicine, and Tonic Pills.
Claims use since July 1, 1929.

Ser. No. 293,171. THEODORE ALTERSON, doing business as Alterson Laboratory, New York, N. Y. Filed Dec. 3, 1929.



In the drawing the shading represents the color green.
For Medicinal Preparation for Treatment of Stomach Disorders.
Claims use since about Sept. 10, 1929.

Ser. No. 293,448. HUBERT B. ROUSH, doing business as Roush Drug Company, Humeston, Iowa. Filed Dec. 9, 1929.

ZOOM

For Inhalant for the Treatment of Head Colds, Hay Fever, Nasal Catarrh, Asthma, Sinus and Bronchial Affections.
Claims use since Nov. 4, 1929.

Ser. No. 293,774. GULF STATES CHEMICAL CO., INC., Harlingen, Tex. Filed Dec. 17, 1929.



The word "Brand" which is shown in the drawing as part of the trade-mark is hereby disclaimed as being part of the trade-mark.
For Agricultural Insecticides Such as Bordeaux Mixture, Tomato Dust, Oil Emulsion, Lime Sulphur Solution, Sulphur, Calcium Arsenate, etc.
Claims use since Jan. 1, 1927.

Ser. No. 293,970. HOLLYWOOD LABORATORIES, INC., Iowa City, Iowa, and Hollywood, Calif. Filed Dec. 21, 1929.



The words "Crème" and "Hollywood" are disclaimed apart from the other features of the mark constituting the drawings.
For Skin Cream.
Claims use since Oct. 21, 1929.

Ser. No. 294,305. STABAVITE SYNDICATE LIMITED, London, England. Filed Jan. 3, 1930.

RUFLI

For Medicinal Preparations for the External Treatment of Rheumatism, Arthritis, Lumbago, Sciatica, Chilblains, and Kindred Uric-Acid Complaints.
Claims use since Aug. 2, 1929.

Ser. No. 295,108. SUTE MATSU ENDO, doing business as Royal Laboratories, Honolulu, Territory of Hawaii. Filed Jan. 21, 1930.

RL

For Hairdressing.
Claims use since March, 1922.

Ser. No. 295,281. E. R. SQUIBB & SONS, New York, N. Y. Filed Jan. 27, 1930.

CORIS

For Mouth Wash.
Claims use since Jan. 22, 1930.

Ser. No. 295,669. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Baking Soda, Baking Powder, Starch, Starch Tablets, Borax, Ammonia, Blueing, Chlorate of Lime, Fly Spray, Disinfectants, Witch-Hazel, Peroxide of Hydrogen, Salt, Potash, Bay Rum, Cream of Tartar, and Tooth Paste.
Claims use since Oct. 26, 1926.

Ser. No. 295,672. MOE GOLDMAN, doing business as Kake-O-Lax Products, Atlanta, Ga. Filed Feb. 6, 1930.

KAKE-O-LAX

No claim is made to the word "Kake" apart from the mark as shown.
For Laxatives Made in Cake or Cookie Form.
Claims use since Nov. 1, 1929.

Ser. No. 295,723. BALDAUF DRUG COMPANY, Milwaukee, Wis. Filed Feb. 7, 1930.

Superbo

For Compound to be Used in the Treatment of Chapped Hands, Face, and Lips, for Liquid Shampoo, Talcum Powder, Aftershaving Lotion, Cold Cream, and Tooth Paste.
Claims use since Dec. 15, 1918.

Ser. No. 295,851. INTERNATIONAL GAS PRODUCTS, INC., Monroe, La. Filed Feb. 10, 1930.

SUPER BLACK

No claim is made to the word "Black" apart from the mark shown in the drawing.
For Carbon Black to be Used for General Purposes.
Claims use since Dec. 30, 1929.

Ser. No. 295,853. ANDERS LANDOREN, Yonkers, N. Y. Filed Feb. 10, 1930.

NO-PYR-OL

For Antirheumatism Oil.
Claims use since Jan. 7, 1930.

Ser. No. 295,893. EGYPTIAN PRODUCTS CO., Newark, N. J. Filed Feb. 11, 1930.

RA-BRAND

No right to registration is claimed on the word "Brand" apart from the mark shown on the drawing.
For Hair-Coloring Preparation and Hair-Shampoo Preparation.
Claims use since Nov. 9, 1929.

Ser. No. 295,921. APOTHECARIES HALL COMPANY, Waterbury, Conn. Filed Feb. 12, 1930.

MONT BLANC

For Laundry Blue, Soda Used as a Laundry Detergent, and Stripper Used for Stripping Colors from Clothes.
Claims use since 1924.

Ser. No. 295,935. THE DAUG PRODUCTS CO., INC., Long Island City, N. Y. Filed Feb. 12, 1930.

Dermacol

For Skin Lotion.
Claims use since May 12, 1913.

Ser. No. 295,973. CLARA BELLE ATKIN, Duluth, Minn. Filed Feb. 13, 1930.

Kansoil

For Preparation for Use in Growing Hair.
Claims use since January, 1930.

Ser. No. 296,279. LABORATOIRE DE PHARMACOLOGIE, INC., New York, N. Y. Filed Feb. 20, 1930.

GÉLODELBIASE

For Ampoules Containing Magnesia in Assimilable Form Used as a General Biological Stimulant.
Claims use since Feb. 10, 1930.

Ser. No. 296,281. LEWIS BROS., INC., New York, N. Y. Filed Feb. 20, 1930.

VITALIS

Applicant is the owner of registered Trade-Mark No. 181,584.
For Hair Tonic.
Claims use since Nov. 15, 1929.

Ser. No. 296,299. J. EARL THAYER, doing business as O-Tas-O Products Company, Sidney, Nebr., and Denver, Colo. Filed Feb. 20, 1930.

OTASO

For Preparation for Use in Treating Head Colds, Chest Colds, Hay Fever, and Nasal Catarrh or Sinus Trouble.
Claims use since Oct. 1, 1929.

Ser. No. 296,304. HENRY N. WILHELM, Memphis, Nebr. Filed Feb. 20, 1930.

MAN-O-WAR

For Compounds Used for External Application to Horses for Relief of Fistula and Pole-Evil.
Claims use since Feb. 17, 1930.

Ser. No. 296,426. HARRY KESSINGER, doing business as The Harry Kessinger Company, Houston, Tex. Filed Feb. 24, 1930.

Arvotane

For Laxative Preparation in Tablet Form.
Claims use since Oct. 26, 1929.

Ser. No. 296,439. PHARMACAL MANUFACTURING CO., Cleveland, Ohio. Filed Feb. 24, 1930.

NOREA

For Pyorrhea Solution.
Claims use since January, 1930.

Ser. No. 296,479. JOHN R. CALDWELL, doing business as The Pioneer Products Co., Steubenville, Ohio. Filed Feb. 25, 1930.

Ex-Z-mol

For Ointment for the Treatment of Skin Diseases.
Claims use since May 12, 1922.

Ser. No. 296,543. NORTH AMERICAN DYE CORPORATION, Mount Vernon, N. Y. Filed Feb. 26, 1930.

Dywhite

For Bluing.
Claims use since about Feb. 14, 1930.

Ser. No. 296,555. THERMATOMIC CARBON COMPANY, Pittsburgh, Pa. Filed Feb. 26, 1930.

P-33

For Carbon Black Used for Various Industrial Purposes and Especially for Compounding with Rubber.
Claims use since Oct. 4, 1926.

Ser. No. 296,597. JAMES W. HILL, doing business as J. W. Hill, Memphis, Tenn. Filed Feb. 27, 1930.



The lining on the heart appearing on the drawing indicates the color red.
For Ointments for the Treatment of Piles.
Claims use since Feb. 19, 1930.

CLASS 11

Inks and Inking Materials

Ser. No. 295,507. CLYDE DEAN, doing business as Dean Ink Company, Chicago, Ill. Filed Feb. 3, 1930.

E-Z RITE

For Writing Ink.
Claims use since Mar. 1, 1929.

CLASS 12

Construction Materials

Ser. No. 294,558. AMERICAN ASPHALT TILE CORPORATION, New York, N. Y. Filed Jan. 9, 1930.

HANOTILE
Asphalt Tile Flooring
Built like a Highway ~ for Wear

No claim being made to the exclusive use of the words "Asphalt Tile Flooring Built Like a Highway for Wear" apart from the mark as shown in the drawing.
For Asphalt Flooring and Roofing Materials.
Claims use since Jan. 2, 1930.

Ser. No. 295,642. SAWYER GOODMAN COMPANY, Marinette, Wis. Filed Feb. 5, 1930.

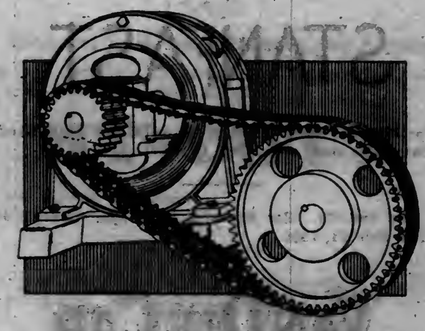
SATINETTE

For Hardwood Flooring.
Claims use since Jan. 22, 1930.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 249,075. LINK-BELT COMPANY, Chicago, Ill. Filed May 16, 1927.



No claim is made to the representation of the machine shown apart from the mark as shown. The background in the drawing is shaded to indicate the color red.
For Chains, Chain Belts, and Parts Thereof.
Claims use since Jan. 1, 1927.

Ser. No. 291,902. ROBERT BARTHOLOMEW, doing business as The Bartholomew Manufacturing Company, Scotch Plains, N. J. Filed Nov. 2, 1929.

Little Cherub

For Metal Nursing-Bottle Warmers.
Claims use since Oct. 7, 1929.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 293,921. FIFTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed Dec. 20, 1929.

CENTER FREE

The words "Center Free" are disclaimed apart from the mark shown.
For Steel Bars of Various Shapes and Sizes, Forgings and Blocks, Discs, and Pieces of Steel.
Claims use since Dec. 7, 1929.

Ser. No. 295,282. STANDARD BRAKE SHOE & FOUNDRY COMPANY, Pine Bluff, Ark. Filed Jan. 27, 1930.

STANFAST

For Finished Steel Castings—Namely, Cast-Steel Bands.
Claims use since about Jan. 1, 1930.

Ser. No. 296,379. ZIV STEEL & WIRE CO., Chicago, Ill. Filed Feb. 21, 1930.

VANDIECAR

For Tool and Die Steel.
Claims use since Jan. 10, 1930.

CLASS 15

Oils and Greases

Ser. No. 284,482. "YACCO" S. A. F., Paris, France. Filed May 21, 1929.

YACCO

For Lubricating Oils and Greases.
Claims use since Dec. 20, 1920.

Ser. No. 293,499. WEST INDIA OIL COMPANY, Bayonne, N. J. Filed Dec. 10, 1929.



No claim is made to the representation of a candle and container, the representation of the package, or to the printed language appearing in the drawing with the exception of the word "Ideal."
For Candles.
Claims use since Nov. 30, 1929.

Ser. No. 295,670. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Candles.
Claims use since Oct. 26, 1926.

CLASS 16

Paints and Painters' Materials

Ser. No. 284,335. E. F. HIGGINS LABORATORIES, INC., Brooklyn, N. Y. Filed May 20, 1929.

NACRETONE

For Base-Coat Lacquers, Finishing Lacquers, and Lacquer Thinners.
Claims use since July 17, 1928.

Ser. No. 292,201. CRAFTEX COMPANY, Boston, Mass. Filed Nov. 9, 1929.



For Painters' Wall Sizings, Painter's Colorings and Glazes, Interior and Exterior Texture Paint for Walls and Woodwork, Water Paint, Oil Paint, Plastic Paint, a Powder for Mixing with Water to Produce a Water or Plastic Paint, and a Paste for Mixing with Water to Produce a Water and Plastic Paint.
Claims use since Oct. 20, 1927.

Ser. No. 292,756. STONE & TAR PRODUCTS CO., Brooklyn, N. Y. Filed Nov. 22, 1929.

PAINT-POINT PRODUCTS

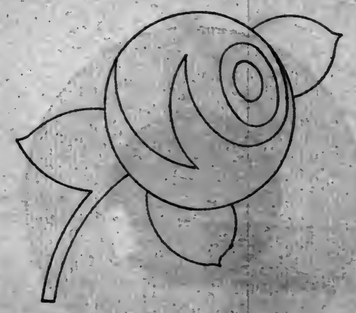
No claim is made to the words "Paint Point Products" apart from the mark shown on the drawing.
For Paints in Dry Form.
Claims use since about Oct. 1, 1929.

Ser. No. 293,234. RICH ART COLOR CO., INC., New York, N. Y. Filed Dec. 4, 1929.

RICH ART

For Artists' Materials—Namely, Show-Card Colors, Air-Brush Colors, Oil Colors in Tubes, Fabric Colors, Oils, and Varnishes.
Claims use since Sept. 1, 1926.

Ser. No. 294,851. GAUT-BLANCAN & CIE., Paris, France. Filed Jan. 3, 1930.



For Artists' Dry Colors, Colors in Oil, and Water Colors.
Claims use since Dec. 15, 1920.

CLASS 17

Tobacco Products

Ser. No. 294,995. ROSS TOBACCO COMPANY, Louisville, Ky. Filed Jan. 20, 1930.

PLANET

For Leaf Tobacco.
Claims use since about 1919.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 295,809. PERIN-WALSH CO., Boston, Mass. Filed Feb. 8, 1930.

WALSHWELD

For Truck Bodies.
Claims use since Feb. 18, 1929.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 276,074. GENERAL DRY BATTERIES, INC., Cleveland, Ohio. Filed Nov. 30, 1928.

HY-DUTY

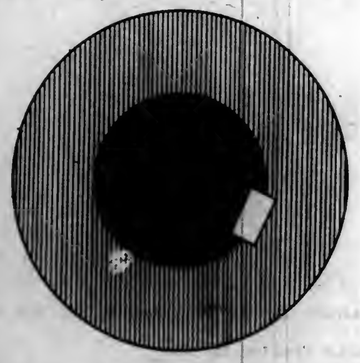
For Electric Batteries.
Claims use since about Nov. 18, 1927.

Ser. No. 293,149. OPERADIO MANUFACTURING COMPANY, St. Charles, Ill. Filed Dec. 2, 1929.

JACK HORNER

For Radio Speakers.
Claims use since on or about June 1, 1929.

Ser. No. 293,211. CROCKER-WHEELER ELECTRIC MANUFACTURING COMPANY, Ampere, N. J. Filed Dec. 4, 1929.



The annular field is lined to indicate red. The central field is lined to indicate black.
For Electric Generators and Electric Motors and Starters for the Motors.
Claims use since May 1, 1901.

Ser. No. 295,055. LILLIAN SCHWARTZ, Philadelphia, Pa. Filed Jan. 21, 1930.



The drawing is lined for orange and yellow.
For Storage Batteries.
Claims use since Dec. 14, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 294,899. WILLIAM HENRY STOREY, Southend-on-Sea, England. Filed Jan. 17, 1930.

SORRY

For Board Game.
Claims use since May 21, 1929.

Ser. No. 295,828. BERT B. BARRY AND ASSOCIATES, Chicago, Ill. Filed Feb. 10, 1930.

PINOCCHIO

For Dolls.
Claims use since Apr. 23, 1929.

Ser. No. 296,863. SOUTH BEND BAIT CO., South Bend, Ind. Filed Feb. 21, 1930.

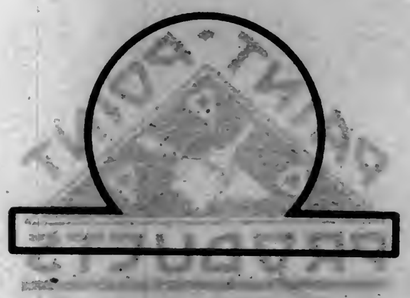
550

For Fishing Reels.
Claims use since on or about May 1, 1928.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 284,593. THE UNITED STATES AIR COMPRESSOR COMPANY, Cleveland, Ohio. Filed May 24, 1929.



For Unitary Articles for Spraying Purposes, Including a Compressor, a Tank, and a Spraying Apparatus; Unitary Articles for Power Washing Equipment, Including a Pump and a Spraying Apparatus; Unitary Articles for Car-Greasing Equipment, Including a Compressor, a Tank, and a Grease Gun; and Unitary Articles for Vehicle Display Purposes, Including a Turntable and a Motor for Operating the Same.
Claims use since March, 1925.

Ser. No. 288,453. MARTIN E. GREENHOUSE, Philadelphia, Pa. Filed Aug. 13, 1929.

AERO

For Safety-Razor Blades.
Claims use since July 1, 1929.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 292,071. HYDE MANUFACTURING COMPANY, Southbridge, Mass. Filed Nov. 6, 1929. Under section 5b of the act of 1905 as amended in 1920.

I. P. HYDE

For Wall-Paper Trimmers, Parts Thereof; Paper-Trimming Outfits, Shears, Casing, and Corner Knives; Palette and Hacking Knives, Curve Cutters for Stencils and General Purposes, Glass Cutters, Base Trimmers, Glaziers' Chisels, Scrapers for Mouldings and for General Purposes, Floor Scrapers, Spatulas, Plastering and Pointing Trowels, Painters' Time Savers or Guards, Hammers, Seam and Smoothing Rollers, Pounce Wheels, Extension Brush Holders.
Claims use since Aug. 22, 1928.

Ser. No. 292,626. WILHELM FRIEDRICHS, Reinickendorf-Ost, near Berlin, Germany. Filed Nov. 20, 1929.

Francotyp

For Postal Franking Machines, Parcel-Post Stamping Machines, Taxation Stamping Machines, Insurance Stamping Machines, Envelope Sealers, and Dating and Numbering Machines.
Claims use since 1924.

Ser. No. 292,743. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill. Filed Nov. 22, 1929. Under section 5b of the act of 1905 as amended in 1920.

SATTLEY

For Internal-Combustion Engines.
Claims use since 1909.

Ser. No. 293,785. "NIESO" STAHL-UND METALLWARENFABRIK GEBR. NIEPENBERG, Wald-Solingen, Germany. Filed Dec. 17, 1929.



For Safety-Razor Blades.
Claims use since 1922.

Ser. No. 294,304. THE HOGGSON & PETTIS MANUFACTURING COMPANY, New Haven, Conn. Filed Jan. 2, 1930.



For Card or Ticket Punch.
Claims use since on or about 1919.

Ser. No. 294,398. WILLIAM W. PEAVYHOUSE, doing business as Blue Grass Pinless Clothesline Machine, Lexington, Ky. Filed Jan. 4, 1930.

BLUE GRASS

For Machines for Making Pinless Clotheslines.
Claims use since June, 1928.

Ser. No. 294,722. GARBER TOOL CO., INC., Garber, Okla. Filed Jan. 13, 1930.



For Rotary Rock-Bit Cones.
Claims use since Jan. 9, 1930.

Ser. No. 295,249. BOB MANUFACTURING COMPANY, Minneapolis, Minn. Filed Jan. 27, 1930.

OILITER

For Oil-Dispensing Devices in the Nature of a Combined Rack and Semimechanical Display Stand for Use in the Display and Sale of Oil in Separate Containers.
Claims use since Oct. 1, 1927.

Ser. No. 295,250. BOB MANUFACTURING COMPANY, Minneapolis, Minn. Filed Jan. 27, 1930.

SERV-OIL-LITER

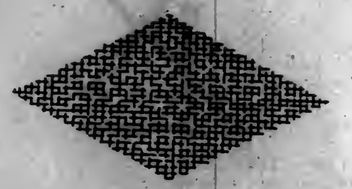
The word "Oil" apart from the mark shown is disclaimed.
For Oil-Dispensing Devices in the Nature of a Combined Rack and Semimechanical Display Stand for Use in the Display and Sale of Oil in Separate Containers.
Claims use since July 1, 1929.

Ser. No. 295,291. BIRD MACHINE COMPANY, South Walpole, Mass. Filed Jan. 28, 1930.

CENTRIFINER

For Pulp and Paper Making Machinery.
Claims use since Dec. 31, 1929.

Ser. No. 295,405. UTILITY MANUFACTURING CO., INC., Baltimore, Md. Filed Jan. 30, 1930.



The drawing is stippled for yellow.

For Ice Picks, Kitchen Forks, Cake Turners, Spatulas, Potato Mashers, Egg Whips, Egg Beaters, Kitchen Spoons, Strainer Spoons, Basting Spoons, Batter Spoons, Stirring Spoons, Mixing Spoons, Apple Corers, Kitchen Trowels, Pan Scrapers and Kettle Scrapers.

Claims use since Jan. 15, 1930.

Ser. No. 295,826. BALDWIN TOOL WORKS, Parkersburg, W. Va. Filed Feb. 10, 1930.



The printed matter is on blue and red grounds, respectively, as represented by characteristic lining for each color on the drawing. No claim is made for the other words than "Baldwin's" except in association with said word or name.

For Shovels, Spades, Scoops, Telegraph Spoons, Hand-Operated Ditching Tools, Snow Pushers, Sidewalk Scrapers, Post-Hole Diggers, Tool Handles.

Claims use since Nov. 15, 1923.

Ser. No. 295,827. BALDWIN TOOL WORKS, Parkersburg, W. Va. Filed Feb. 10, 1930.

JUMBO

For Shovels, Spades, Scoops, Telegraph Spoons, Hand-Operated Ditching Tools, Snow Pushers, Sidewalk Scrapers, Post-Hole Diggers, Tool Handles.

Claims use since about Jan. 24, 1930.

Ser. No. 295,929. DECATUR PUMP COMPANY, Decatur, Ill. Filed Feb. 12, 1930.



For Pumps and Pumping Units Consisting of a Pump Frame and Support, Pump, Electric Motor, Storage Tank, Control Switch, and Strainer and Parts Thereof Except Electric Motors.

Claims use since about Feb. 4, 1930.

Ser. No. 295,930. DECATUR PUMP COMPANY, Decatur, Ill. Filed Feb. 12, 1930.

TORNADO

For Pumps and Pumping Units Consisting of a Pump Frame and Support, Pump, Electric Motor, Storage Tank, Control Switch, and Strainer and Parts Thereof Except Electric Motors.

Claims use since about Feb. 4, 1930.

Ser. No. 295,970. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y. Filed Feb. 12, 1930.

MULTI-V-DRIVE

The lining in the drawing indicates shading only. No claim is made for the words "Multi" and "Drive" apart from the mark as shown.

For Power Transmission Machinery, Comprising Belt Drives Consisting of Rotary Sheaves Having Flexible Belts Cooperating Therewith to Transmit Rotary Motion from One Sheave to the Other.

Claims use since September, 1929.

Ser. No. 296,228. THE FARMERS' STONE-PICKING MACHINE COMPANY, Baltimore, Md. Filed Feb. 19, 1930.



Applicant hereby disclaims the right to the words "Baltimore, Maryland, U. S. A." as a part of its aforesaid trade-mark.

For Stone-Picking Machines.

Claims use since Dec. 2, 1929.

Ser. No. 296,323. WILLIAM DEMUTH & COMPANY, New York, N. Y. Filed Feb. 21, 1930.



No claim being made to the words "Removes Caps" and "Pulls Corks" apart from the mark shown in the drawing.

For Combination Bottle Opener and Corkscrew.

Claims use since Feb. 10, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 295,804. NATIONAL WASHBOARD COMPANY, Chicago, Ill. Filed Feb. 8, 1930.

KING COTTON

For Washboards.

Claims use since 1927.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 294,095. TEC-ART STUDIOS, INC., Los Angeles, Calif. Filed Dec. 26, 1929.



The lining upon the drawing indicates shading.

For Motion-Picture and Sound-Producing Film.

Claims use since Nov. 15, 1929.

Ser. No. 295,255. DESIGN MFG. CO. INC., Rochester, N. Y. Filed Jan. 27, 1930.

Art-Craft

For Optical Frames.

Claims use since May 3, 1929.

CLASS 27

Horological Instruments

Ser. No. 287,985. WESTERN CLOCK COMPANY, Peru, Ill. Filed Aug. 1, 1929.

Ben Bolt

For Clocks and Watches.

Claims use since June 19, 1929.

Ser. No. 296,413. ETNA WATCH COMPANY, New York, N. Y. Filed Feb. 24, 1930.

VARSITY

For Time Recorders, Clocks, and Watches.

Claims use since Nov. 1, 1929.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 295,675. E. F. HIGGINS LABORATORIES, INC., New York and Brooklyn, N. Y. Filed Feb. 6, 1930.

Vesta

For Imitation Pearls and Imitation-Pearl Necklaces.

Claims use since Nov. 2, 1929.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 295,724. BLUEBIRD DIAMOND SYNDICATE, Chicago, Ill. Filed Feb. 7, 1930.

BLUEBELL

For Diamond Rings.
Claims use since Jan. 28, 1930.

Ser. No. 295,813. SHUTTLES BROS. & LEWIS, Dallas, Tex. Filed Feb. 8, 1930.

RINGOLOVE

For Wedding Rings, Dinner Rings, Engagement Rings, and Other Finger Rings of Precious Metal.
Claims use since Apr. 1, 1929.

CLASS 31

Filters and Refrigerators

Ser. No. 279,930. HUGO JUNKERS, Dessau, Germany. Filed Feb. 26, 1929.



For Refrigerating Machines and Apparatus and Parts Thereof—Namely, Water, Oil, Vapor, Air and Gas Coolers, Steam and Vapor Condensers, Coolers, Condensers.
Claims use since May 28, 1924.

Ser. No. 296,067. LIQUID COOLER CORPORATION, Detroit, Mich. Filed Feb. 15, 1930.

TEMPRITE

For Mechanically-Refrigerated Water Coolers and Beverage Coolers, Cabinets and Fixtures Therefor, and for Parts of Said Coolers, Cabinets, and Fixtures.
Claims use since on or about Sept. 1, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 295,339. LUCIEN A. MARSH, doing business as L. A. Marsh Manufacturing Co., San Francisco, Calif. Filed Jan. 29, 1930.

CENTER SCORE

For Bridge Tables.
Claims use since on or about Dec. 10, 1929.

CLASS 33

Glassware

Ser. No. 248,813. CONTAINER SALES COMPANY, INC., New York, N. Y. Filed May 11, 1927.



No claim is made to the words "Air Tite" apart from the mark as shown in the drawing.
For Jars Composed of Glass with Metal Tops.
Claims use since Apr. 23, 1927.

Ser. No. 294,651. B. TOMBY & CO. INC., New York, N. Y. Filed Jan. 10, 1930.



For Glassware—Namely, Tableware.
Claims use since Sept. 19, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 293,518. CHANTIERS NAVALS & CHAUDRONNERIES DU MIDI, Marseille, France. Filed Dec. 11, 1929.

PRUDHON-CAPUS

For Steam Boilers, Superheaters, Furnaces, and Funnels for Steam Boilers, and Waste-Gas-Feed Heaters.
Claims use since July, 1912.

Ser. No. 294,630. GAS AND ELECTRIC HEATER CO., La Porte, Ind. Filed Jan. 10, 1930.



For Gas and Electric Water-Supply Heaters.
Claims use since June 1, 1929.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 294,400. RAYBESTOS-MANHATTAN, INCORPORATED, Bridgeport, Conn. Filed Jan. 4, 1930.

Raybestos

For Fan Belts, Refrigerator Belts, Radiator Hose, Car-Washer Hose, Air Hose, Windshield-Wiper Hose, Welding Hose, Generator Tubing, and Hand-Pump Tubing.
Claims use since on or about Oct. 1, 1929.

Ser. No. 295,562. DEMPSTER MILL MANUFACTURING COMPANY, Beatrice, Nebr. Filed Feb. 4, 1930.

DEM-BLAK

The word "Blak" is disclaimed apart from the mark as shown.
For Cup Leathers for Pumps.
Claims use since May, 1927.

CLASS 37

Paper and Stationery

Ser. No. 292,773. EMPIRE PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1929.



For Bond, Ledger, and Writing Papers.
Claims use since January, 1914.

Ser. No. 293,111. SAMUEL SCHULTZ, Philadelphia, Pa. Filed Nov. 30, 1929.



For Wall Paper.
Claims use since Mar. 1, 1923.

Ser. No. 294,264. A. KICKBUSCH GROCERY CO., Wausau, Wis. Filed Dec. 31, 1929.



For Writing Paper, Wrapping Paper, and Toilet Paper.
Claims use since Oct. 14, 1929.

Ser. No. 296,260. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Feb. 20, 1930.

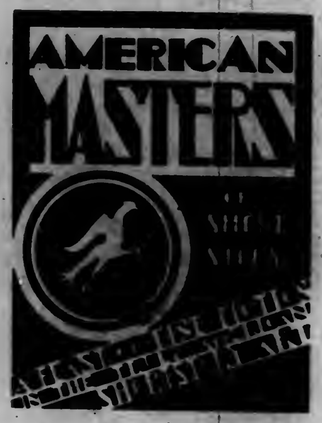
PARIAN

For Mineral-Coated Paper Suitable for Printing.
Claims use since May, 1915.

CLASS 38

Prints and Publications

Ser. No. 291,359. H. STEWART SAR, doing business as American Masters Press, Hollywood, Calif. Filed Oct. 21, 1929.



"Of Short Story" and "A Feast of Fine Fiction in the Truly American Short Story Art" is disclaimed apart from the mark shown in the drawing.
For Publications (Magazine) Generally Published Monthly, but Also at Other Periods.
Claims use since Aug. 1, 1929.

Ser. No. 295,105. THE WESTERNER PUBLISHING COMPANY, Salt Lake City, Utah. Filed Jan. 22, 1930.

The Westerner

For Magazine Published Periodically.
Claims use since May 25, 1929.

Ser. No. 295,534. RACKLIFF & CO. INCORPORATED, New York, N. Y. Filed Feb. 3, 1930.

BANKING TRENDS

For Magazines.
Claims use since Jan. 6, 1930.

Ser. No. 295,563. GOOD STORY MAGAZINE COMPANY, INC., New York, N. Y. Filed Feb. 4, 1930.



The trade-mark sought to be registered is limited to the color blue.
For Monthly Magazine.
Claims use since Jan. 27, 1930.

Ser. No. 295,600. BEVERLY HALL CORPORATION, Beverly Hall, Quakertown, Pa. Filed Feb. 5, 1930.

The Secret Schools

For Periodicals.
Claims use since January, 1905.

Ser. No. 295,721. THE ABENDPOST COMPANY, Chicago, Ill. Filed Feb. 7, 1930.

Abendpost

For Daily Newspaper.
Claims use since Sept. 2, 1889.

Ser. No. 295,722. THE ABENDPOST COMPANY, Chicago, Ill. Filed Feb. 7, 1930.

Sonntagpost

For Sunday Newspaper.
Claims use since Mar. 5, 1899.

Ser. No. 295,866. CHARLES M. RICHTER, Chicago, Ill. Filed Feb. 10, 1930.

Up to Date Homes

For Magazine.
Claims use since Feb. 3, 1930.

Ser. No. 295,913. THE ASSOCIATED PRESS, New York, N. Y. Filed Feb. 11, 1930.

COLONEL GILFEATHER

For Daily Publications of Strips and Panels Consisting of Comic Features.
Claims use since Jan. 21, 1930.

Ser. No. 295,914. THE ASSOCIATED PRESS, New York, N. Y. Filed Feb. 11, 1930.

SCORCHY SMITH

For Daily Publications of Strips and Panels Consisting of Comic Features.
Claims use since Jan. 21, 1930.

Ser. No. 295,915. THE ASSOCIATED PRESS, New York, N. Y. Filed Feb. 11, 1930.

HOMER HOOPEE

For Daily Publications of Strips and Panels Consisting of Comic Features.
Claims use since Jan. 21, 1930.

Ser. No. 295,916. THE ASSOCIATED PRESS, New York, N. Y. Filed Feb. 11, 1930.

MODEST MAIDENS

For Daily Publications of Strips and Panels Consisting of Comic Features.
Claims use since Jan. 21, 1930.

Ser. No. 295,917. THE ASSOCIATED PRESS, New York, N. Y. Filed Feb. 11, 1930.

GLORIA

For Daily Publications of Strips and Panels Consisting of Comic Features.
Claims use since Jan. 21, 1930.

Ser. No. 295,918. THE ASSOCIATED PRESS, New York, N. Y. Filed Feb. 11, 1930.

ROLLO ROLLINGSTONE

For Daily Publications of Strips and Panels Consisting of Comic Features.
Claims use since Jan. 21, 1930.

Ser. No. 296,045. BENJAMIN, HILL & CO., New York, N. Y. Filed Feb. 15, 1930.

THE FINANCIAL DIARY

For Monthly Periodicals.
Claims use since Feb. 1, 1929.

Ser. No. 296,308. MERCHANTS' MINUTE MEN OF AMERICA, Shreveport, La. Filed Feb. 21, 1930.

MMM

For Bulletins and Pamphlets Published from Time to Time.
Claims use since Dec. 2, 1929.

Ser. No. 296,447. PAUL ROBINSON, Belleville, N. J. Filed Feb. 24, 1930.

ETTA KETT

For Newspaper Cartoons.
Claims use since Jan. 1, 1926.

Ser. No. 296,507. WALDO LYON, Traverse City, Mich. Filed Feb. 24, 1930.



For Booklets, Pamphlets, Real Estate and Financial Publications.
Claims use since Feb. 17, 1930.

Ser. No. 296,536. MANUFACTURERS RECORD PUBLISHING COMPANY, Baltimore, Md. Filed Feb. 26, 1930.

DAILY CONSTRUCTION BULLETIN

For Daily Newspaper.
Claims use since Feb. 10, 1930.

Ser. No. 296,622. WORZALLA PUBLISHING CO., Stevens Point, Wis. Filed Feb. 27, 1930.

Cultura

For Monthly Magazine.
Claims use since December, 1924.

Ser. No. 296,678. THE LOUISVILLE TIMES, Louisville, Ky. Filed Mar. 1, 1930.

Gimme a Match

For Newspaper Section.
Claims use since Dec. 1, 1926.

Ser. No. 296,741. GOOD STORY MAGAZINE COMPANY, INC., New York, N. Y. Filed Mar. 3, 1930.

Astonishing Stories

For Monthly Magazine.
Claims use since Feb. 25, 1930.

Ser. No. 296,742. GOOD STORY MAGAZINE COMPANY, INC., New York, N. Y. Filed Mar. 3, 1930.

Gangland

For Monthly Magazine.
Claims use since Feb. 25, 1930.

Ser. No. 296,743. GOOD STORY MAGAZINE COMPANY, INC., New York, N. Y. Filed Mar. 3, 1930.

MOBS

For Monthly Magazine.
Claims use since Feb. 25, 1930.

CLASS 39

Clothing

Ser. No. 275,286. THE F. & R. LAZARUS & COMPANY, Columbus, Ohio. Filed Nov. 14, 1928.

Dick and Dotty STOCKINGS



The word "Stockings" as shown in the drawing is disclaimed apart from the mark as shown.
For Children's Hose.
Claims use since Aug. 1, 1926.

Ser. No. 277,021. RICE-NEUMAN CO., Milwaukee, Wis. Filed Dec. 20, 1928.

Betty Rose

For Ladies' Hosiery and Knitted Underwear.
Claims use since Oct. 15, 1928.

Ser. No. 282,305. LUSTIG'S, Youngstown, Ohio. Filed Apr. 12, 1929.

LUSTIG'S CO-ED FOOTWEAR

No claim is made to the exclusive use of the word "Footwear."
For Boots and Shoes Made of Leather or Fabric or of a Combination of Leather and Fabric.
Claims use since Feb. 1, 1928.

Ser. No. 283,067. TRIANGLE RAINCOAT CO., INC., New York, N. Y. Filed Apr. 26, 1929.

TOPTEX

For Raincoats.
Claims use since February, 1929.

Ser. No. 284,242. MASTER SHIRT & BLOUSE CO., Philadelphia, Pa. Filed May 18, 1929.

MASTERLOOM

For Men's and Boys' Dress and Negligee Shirts, Boys' Blouses, and Men's and Boys' Nightshirts and Pajamas.
Claims use since June 15, 1928.

Ser. No. 291,880. S. H. KRESS & CO., New York, N. Y. Filed Nov. 1, 1929.

Milady

For Ladies' Garters.
Claims use since Oct. 2, 1929.

Ser. No. 292,493. H. L. FRIEDLEN & COMPANY, Chicago, Ill. Filed Nov. 16, 1929.

Security CHICAGO AVIATION TOGS

The words "Aviation Togs" and the word "Chicago" are disclaimed apart from the mark as shown.
For Flying Suits, Leather Coats, Leather Vests, Leather Trousers, Helmets.
Claims use since on or about Aug. 1, 1929.

Ser. No. 293,469. JULIUS HENDEL, doing business as Hendel Manufacturing Co., New London, Conn. Filed Dec. 10, 1929.

TRADE MARK HEMCO Running Pants

Applicant disclaims all exclusive use of the words "Running Pants" and "Trade Mark" as printed in the accompanying drawing.
For Athletic Running Pants for Men.
Claims use since Jan. 1. 1928.

Ser. No. 293,779. WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed Dec. 17, 1929.

Louise Thaden

The trade-mark consists of the signature of the well-known aviatrix.
For Ladies' Aviation Outfits—Namely, Coats, Dresses, Helmets, and Leather and Fabric Gloves.
Claims use since Dec. 1, 1929.

Ser. No. 293,812. JAMES E. DONAVAN, Millis, Mass. Filed Dec. 11, 1929.

DONAVANS POLICEMAN AND FIREMAN SHOE BUNION & CORN PROTECTOR

No claim is made under the statute to any of the wording on the drawing except "Donavans" unless used in connection with the mark shown.
For Boots and Shoes Principally of Leather and Boots and Shoes of a Combination of Leather and Fabric.
Claims use since about Feb. 1, 1917.

Ser. No. 293,839. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Dec. 18, 1929.

ANN-X Shoe Shop

Applicant disclaims use of the words "Shoe Shop," except in the association shown.
For Men's, Women's, Boys' and Girls', and Children's Boots, Shoes, Slippers and Footwear of Leather, Fabric, Canvas, Rubber, Felt, or Satin.
Claims use since Nov. 1, 1929.

Ser. No. 294,843. BROWN SHOE COMPANY, INC., St. Louis, Mo. Filed Jan. 16, 1930.

TEMPO

For Shoes Made of Leather, Cloth, Canvas, or Combinations Thereof.
Claims use since Dec. 16, 1929.

Ser. No. 294,949. BENJAMIN SCHAENGOLD, Cincinnati, Ohio. Filed Jan. 18, 1930.



Applicant disclaims the right to the exclusive use of the geographic term "The Clifton."
For Hats Intended for the Use of Men.
Claims use since May 1, 1928.

Ser. No. 294,950. BENJAMIN SCHAENGOLD, Cincinnati, Ohio. Filed Jan. 18, 1930.



For Hats Intended for the Use of Men.
Claims use since May 1, 1928.

Ser. No. 295,157. HA-BER-SAN MANUFACTURING CORP., New York, N. Y. Filed Jan. 24, 1930.

Golden Prince

For Men's and Boys' Dress and Negligee Shirts, Pajamas, and Underwear.
Claims use since Mar. 1, 1928.

Ser. No. 295,158. HA-BER-SAN MFG. CORP., New York, N. Y. Filed Jan. 24, 1930.

BOYFRIEND

For Boys' Shirts, Pajamas, and Blouses.
Claims use since Dec. 2, 1929.

Ser. No. 295,179. INDIANAPOLIS GLOVE COMPANY, Indianapolis, Ind. Filed Jan. 24, 1930.

Red Apple
SPECIAL

The word "Special" is hereby disclaimed apart from the mark as shown.
For Gloves.
Claims use since Apr. 1, 1929.

Ser. No. 295,184. LIONDALE SHIRT COMPANY, INC., New York, N. Y. Filed Jan. 24, 1930.

STYLSET

For Men's and Boys' Dress and Negligee Shirts, Pajamas, and Collars.
Claims use since Nov. 4, 1929.

Ser. No. 295,205. BROWNING, KING & CO., New York, N. Y. Filed Jan. 25, 1930.

Tri-VALUE

For Neckties, Hosiery, Negligee Shirts, Pajamas, Men's Underwear, and Collars.
Claims use since Jan. 18, 1930.

Ser. No. 295,252. J. W. CARTER COMPANY, Nashville, Tenn. Filed Jan. 27, 1930.

DAD-JR

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.
Claims use since Jan. 2, 1930.

Ser. No. 295,415. BAKER-MOIRE COMPANY, Dallas, Tex. Filed Jan. 31, 1930.

Skylark

For Hosiery.
Claims use since Jan. 14, 1930.

Ser. No. 295,689. OGDEN-UTAH KNITTING COMPANY, Ogden, Utah. Filed Feb. 6, 1930.



For Women's, Misses', and Children's Ready-to-Wear Frocks or Outer Garments—Namely, House Dresses, Street Dresses, Evening Dresses, Aprons, and Smocks.
Claims use since Nov. 1, 1928.

Ser. No. 296,089. VAN RAALTE COMPANY, New York, N. Y. Filed Feb. 15, 1930.

Flextoe

For Hosiery.
Claims use since Jan. 30, 1930.

Ser. No. 296,178. ENDICOTT JOHNSON CORPORATION, New York, N. Y. Filed Feb. 18, 1930.

ENDWELL

For Hosiery.
Claims use since about Feb. 10, 1930.

Ser. No. 296,199. REAL SPORT CLOTHING CO., Philadelphia, Pa. Filed Feb. 18, 1930.

EZ-ON

For Breeches, Riding Breeches, Service Breeches, and Sport Breeches.
Claims use since Jan. 6, 1930.

Ser. No. 296,200. REAL SPORT CLOTHING CO., Philadelphia, Pa. Filed Feb. 16, 1930.

MASTERSEAM

For Breeches, Riding Breeches, Service Breeches, and Sport Breeches.
Claims use since Nov. 1, 1926.

Ser. No. 296,272. PAUL GUENTHER, INC., New York, N. Y. Filed Feb. 20, 1930.

Paul Guenther

The drawing represents a facsimile representation of the signature of Paul Guenther, president of the applicant corporation.
For Hosiery.
Claims use since July, 1929.

Ser. No. 296,284. THOMAS MILLS, INC., High Point, N. C. Filed Feb. 20, 1930.

GRAND
PA

For Hosiery.
Claims use since Nov. 15, 1929.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 276,756. AMERICAN TRADE MARK CORPORATION, New York, N. Y. Filed Dec. 15, 1928.

Vulcanart
THE MODERN MARKING METHOD

Applicant disclaims the phrase "The Modern Marking Method" without prejudice to its trade rights.
For Transfer Patterns.
Claims use since Aug. 1, 1928.

Ser. No. 276,757. AMERICAN TRADE MARK CORPORATION, New York, N. Y. Filed Dec. 15, 1928.



Applicant disclaims the phrases "The Modern Marking Method" and "Trade Mark."
For Transfer Patterns.
Claims use since Aug. 1, 1928.

Ser. No. 293,206. ARTISTIC NOVELTY CO., INC., New York, N. Y. Filed Dec. 4, 1929.



No registration rights are claimed herein to the initials "N. Y." apart from the mark as shown.
For Ornamental Appendages and Trimmings, Not of Precious Metal, for Garments, Millinery, Shoes, Lamps, and Fabrics, Consisting of Pearls, Beads, Buttons, Rhinestones, Imitation Stones and Jewels, Chains, Spangles, Buckles, Slides, Rings, Clasps, and Similar Ornaments.
Claims use since 1920.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 289,264. CARAFIOL-SILVERMAN GARMENT CO., St. Louis, Mo. Filed Sept. 3, 1929.

CIRCE CANTON

No exclusive claim being made to the word "Canton."
For Canton Fabric.
Claims use since Apr. 1, 1929.

Ser. No. 296,588. DUPLAN SILK CORPORATION, New York, N. Y. Filed Feb. 27, 1930.

KASH-RAY

For Piece Goods of Silk and Rayon and Mixtures Thereof.
Claims use since Jan. 30, 1930.

Ser. No. 296,662. MITCHELL WING COMPANY, Cambridge, Mass. Filed Feb. 28, 1930.



For Apron Duck in the Piece for Laundry Machines.
Claims use since Feb. 7, 1930.

Ser. No. 296,680. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpapak

For Pile Fabrics, in the Piece.
Claims use since Feb. 17, 1930.

Ser. No. 296,681. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpadoe

For Pile Fabrics, in the Piece.
Claims use since Feb. 17, 1930.

Ser. No. 296,682. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpatwil

For Pile Fabrics, in the Piece.
Claims use since Feb. 17, 1930.

Ser. No. 296,683. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpatop

For Pile Fabrics, in the Piece.
Claims use since Feb. 17, 1930.

Ser. No. 296,684. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpaflece

For Pile Fabrics in the Piece.
Claims use since Feb. 17, 1930.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 296,685. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpakid

For Pile Fabrics in the Piece.
Claims use since Feb. 17, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 294,211. THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Dec. 30, 1929.



No claim is made to the exclusive use of the word "Brand" nor to the words "Double Pointed—Tapered—Flat Tooth Picks, Polished White Birch" apart from the mark as shown in the drawing.
For Toothpicks.
Claims use since June, 1921.

Ser. No. 295,810. GEORGE H. PORTER, doing business as Queen Manufacturing Company, Falconer, N. Y. Filed Feb. 8, 1930.

"Queen Quality"

The descriptive word "Quality" being disclaimed apart from the mark shown on the drawing.
For Dental Waxes.
Claims use since January, 1929.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 280,823. CHESTER BROWN, Asheville, N. C. Filed Mar. 16, 1929.

KOKO

For a Cola-Flavored Carbonated Beverage Sold as a Soft Drink.
Claims use since Jan. 5, 1928.

Ser. No. 295,577. ELIAS SHEINKER, doing business as W. Sheinker & Son, New York, N. Y. Filed Feb. 4, 1930.

TRU-BURB-N BOUQUET

No claim being made to the exclusive use of the word "Bouquet" apart from the mark as shown in the drawing.
For Flavoring Medium for Nonalcoholic Beverages and Syrups.
Claims use since Apr. 1, 1923.

Ser. No. 295,865. JOS. POELLINGER, doing business as Huron Beverage Co., Huron, S. Dak. Filed Feb. 10, 1930.

POELLINGER'S JUICE

The word "Juice" forms a part of the mark only in connection with the other features thereof.
For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since June, 1929.

Ser. No. 296,438. MILTON PAUL, doing business as International Extract Co., New York, N. Y. Filed Feb. 24, 1930.

VINMOUTH

For True Fruit and Imitation Flavoring Extracts for Flavoring Nonalcoholic, Noncereal, Maltless Beverages.
Claims use since Nov. 1, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 289,586. KAUF & RINDERSPACHER CO., Hastings, Nebr. Filed Nov. 2, 1926.



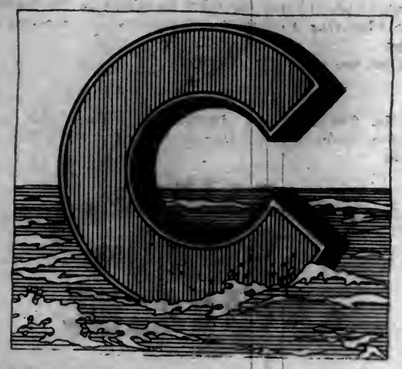
For Pork, Beef, Dressed Fowl, Mutton, Veal, and Lamb; Cheese, Pepper, Mustard, Cinnamon, and Cloves.
Claims use since Jan. 1, 1917.

Ser. No. 264,902. W. A. PATTON, Catlettsburg, Ky. Filed Apr. 16, 1928.

Patton's Pride

For Fresh Apples.
Claims use since 1922.

Ser. No. 266,790. E. A. COUTURE, Modesto, Calif. Filed May 22, 1928.



The drawing is lined for the colors red and blue.
For Fresh Grapes.
Claims use since August, 1925.

Ser. No. 266,867. SOPHIA MAIER, Chicago, Ill. Filed May 23, 1928.



No claim is made to the word "Sweets" apart from the mark as shown.
For Candy.
Claims use since Jan. 1, 1928.

Ser. No. 271,535. D'ARRIGO BROS. Co., Boston, Mass., and San Jose, Calif. Filed Aug. 25, 1928.



The portrait forming a part of the drawing in this case is that of Andrew D'Arrigo, the infant son of Stephen D'Arrigo, the member of this copartnership who signed this application.
For Fresh Broccoli, Fresh Prickly Pears, and Fresh Tomatoes.
Claims use since July 1, 1928.

Ser. No. 274,108. THE JOHN C. GROUB COMPANY, doing business as The Jay C. Stores, Seymour and Mitchell, Ind. Filed Oct. 22, 1928.

The Jay C Stores

For Wheat Flour and Coffee.
Claims use since July 1, 1928.

Ser. No. 277,625. HARRISON AND ROSS, Tucson, Ariz. Filed Jan. 5, 1929.



Every Bite a Delight

No claim being made to the words "Every Bite a Delight" and the representation of an ice-cream sucker apart from the mark shown on the drawing.
For Ice-Cream Suckers.
Claims use since Oct. 21, 1928.

Ser. No. 282,075. JOHN L. WADDELL, doing business as Sunnymede Farms, Highland Park, Ill., and Bismarck, Mo. Filed Apr. 8, 1929.

Sunnymede

For Eggs, Dressed Poultry; Fresh, Powdered, and Evaporated Milk; Butter, Cream, and Buttermilk.
Claims use since August, 1928.

Ser. No. 284,202. THE REHNSTROM BROS. Co., Cincinnati, Ohio. Filed May 17, 1929.

Rosebud

For Mayonnaise, Salad Dressing, Sandwich Spread, Tartar Sauce, French Dressing, Mustard.
Claims use since May 1, 1928, on mayonnaise, salad dressing, sandwich spread, and tartar sauce, and since Apr. 29, 1929, on mustard.

Ser. No. 287,520. BEACON FISHERIES COMPANY, Boston, Mass. Filed July 23, 1929.

BEECO

For Fresh Fish and Fillets.
Claims use since June 15, 1929.

Ser. No. 287,927. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y. Filed July 31, 1929.

BEVEX

For Bouillon Cubes and Bouillon in Powdered Form.
Claims use since Jan. 16, 1929.

Ser. No. 287,966. HAHNE & COMPANY, Newark, N. J. Filed Aug. 1, 1929.



For Canned, Glassed, Preserved, and Candied Fruits; Fresh Citrous and Deciduous Fruits; Sweets Consisting of Cakes, Cookies, and Candies; Preserves Consisting of Jams, Jellies, Marmalades, Fruit Butter; Condiments Consisting of Pickles, Mustard, Meat Sauce, Pickled Onions, Chowchow, Chili Sauce, Mayonnaise, French Dressing, Thousand Island Dressing, Russian Dressing, Oil Dressing, Mustard Dressing, Horse-Radish; Canned Goods Consisting of Tongue, Chicken, Sardines, Fish Paste, Meat Paste, Anchovies, and Fishes; Stuffed Oranges, Stuffed Dates, Stuffed Figs, Raisins, Salted Assorted Nuts, Unsalted Assorted Nuts, Pecans, Walnuts, Butternuts, Brazil Nuts, Hickory Nuts, Peanuts, Chestnuts, Almonds, Filberts, in the Shell.
Claims use since on or about May 28, 1929.

Ser. No. 289,280. H. WALTER KLEINSCHMIDT, doing business as Lido Sweet Shop, Maywood, Ill. Filed Sept. 3, 1929.

The CORN CRIB

For Buttered Pop Corn, Dried Pop Corn, Roasted Peanuts, Salted Peanuts.
Claims use since Oct. 20, 1928.

Ser. No. 289,757. JOHN H. MCNERCH, Middleboro, Mass. Filed Sept. 13, 1929.



Use of the word "Farm" is disclaimed except in connection with the trade-mark shown.
For Eggs and Fresh Vegetables.
Claims use since July, 1926.

Ser. No. 292,298. TWIN CITY MILK PRODUCERS ASSOCIATION, St. Paul, Minn. Filed Nov. 9, 1929.



Applicant disclaims the descriptive word "Special" apart from the other features of the mark.
For Spray Powder Milk.
Claims use since Jan. 1, 1929.

Ser. No. 294,050. AMERICAN NUT COMPANY, Indianapolis, Ind. Filed Dec. 26, 1929.



For Edible Nuts Salted or in Their Natural State (but Shelled)—Namely, Almonds, Pecans, Filberts, Peanuts, Cashews, and Lovenuts.
Claims use since Nov. 25, 1929.

Ser. No. 294,195. HENRY W. VON DAMM, doing business as F. H. Von Damm, Brooklyn, N. Y. Filed Dec. 28, 1929.

Old Dutch

No claim is made for the words "Old Dutch" apart from the mark shown in the drawing.
For Birdseeds, Turtle Food, Poultry, and Stock Feeds, and Pigeon Feeds.
Claims use since Jan. 1, 1929.

Ser. No. 294,808. JOHN F. JELKE COMPANY, Chicago, Ill. Filed Jan. 2, 1930.

QUEEN GOLD

For Oleomargarine.
Claims use since Nov. 15, 1929.

Ser. No. 294,676. MEXICAN GULF PACKING CO. INC., Pascagoula, Miss. Filed Jan. 11, 1930.

MEXICAN GULF

Applicant disclaims the words "Mexican Gulf" except in the precise relation and association in which the same appear herein.

For Canned Shrimp and Canned Oysters.
Claims use since Dec. 13, 1929.

Ser. No. 294,993. THE PANIPLUS COMPANY, Wilmington, Del. Filed Jan. 20, 1930.



For Whole-Wheat Flour.
Claims use since on or about Dec. 9, 1929.

Ser. No. 295,555. BURKI & CIE., Bern, Switzerland. Filed Feb. 4, 1930.



No claim being made to the exclusive use of the words "Swiss Cheese Aged with Neuchatel Wine Made in Switzerland by, Berne, Switzerland" apart from the mark as shown.

For Cheese.
Claims use since August, 1928.

Ser. No. 295,613. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND, TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, Winnipeg, Manitoba, Canada. Filed Feb. 5, 1930.



For Teas and Coffees.
Claims use since July, 1918.

Ser. No. 295,614. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND, TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, Winnipeg, Manitoba, Canada. Filed Feb. 5, 1930.



The shading lines indicate the color red.
For Teas and Coffees.
Claims use since July, 1918.

Ser. No. 295,615. THE GOVERNOR AND COMPANY OF ADVENTURERS OF ENGLAND, TRADING INTO HUDSON'S BAY, doing business as Hudson's Bay Company, Winnipeg, Manitoba, Canada. Filed Feb. 5, 1930.



The shading lines indicate the color blue.
For Teas and Coffees.
Claims use since July, 1918.

Ser. No. 295,761. RED SUN PRODUCTS COMPANY, Chicago, Ill. Filed Feb. 7, 1930.



For Malt Syrup.
Claims use since July 16, 1926.

Ser. No. 296,202. SCHINDLER'S PEANUT PRODUCTS, INC., Washington, D. C. Filed Feb. 18, 1930.

Tub-O-Nuts

No claim is made to the word "Nuts" apart from the mark as shown.

For Salted Peanuts.
Claims use since Mar. 1, 1929.

Ser. No. 296,346. EARL R. HARTSUCH, doing business as Hartsuch, Chicago, Ill. Filed Feb. 21, 1930.



No claim is made to the words "French Salad Dressing, Made by, Chicago, 8 Fluid Ounces," and "Shake It Thoroughly" apart from the mark. The drawing is lined to indicate the colors blue and yellow.

For Salad Dressing.
Claims use since about June 1, 1925.

Ser. No. 296,306. STARR FRUIT PRODUCTS CO., Portland, Oreg. Filed Feb. 21, 1930.

WESTSAIL

For Canned Fruits.
Claims use since Jan. 20, 1930.

Ser. No. 296,419. GRISTEDE BROS., INC., New York, N. Y. Filed Feb. 24, 1930.

Garden of India

For Tea.
Claims use since 1929.

Ser. No. 296,421. JOHN D. HAMILTON CO., Tacoma, Wash. Filed Feb. 24, 1930.

TALKIE

For Candy.
Claims use since Feb. 6, 1930.

Ser. No. 296,424. H. Jevne Co., Los Angeles, Calif. Filed Feb. 24, 1930.

RICHMAID

For Bakery Products—Namely, Cakes, Cookies, Bread, Pies, Rolls, Doughnuts, Cream Puffs, Crackers, Fig Bars, Pretzels.
Claims use since on or about Feb. 15, 1930.

Ser. No. 296,577. Brown & Haley, Tacoma, Wash. Filed Feb. 27, 1930.

PURPLE & GOLD

For Candy.
Claims use since Jan. 1, 1917.

Ser. No. 296,578. Buena Vista Mills, Buena Vista, Va. Filed Feb. 27, 1930.

HOT SUPPER

For Wheat Flour.
Claims use since July 16, 1923.

Ser. No. 296,594. Heintz-Merkle & Co., Inc., Philadelphia, Pa. Filed Feb. 27, 1930.

Taste Tells

For Potato Grills.
Claims use since Dec. 23, 1929.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 294,197. Webster Rubber Company, Sabbatus, Me. Filed Dec. 28, 1929.

Rainbow

For Rubber Doilies.
Claims use since about Sept. 21, 1929.

Ser. No. 294,639. Lamicel Products Inc., New York, N. Y. Filed Jan. 10, 1930.

LAMICEL

For Laminated Sheets Consisting of Two or More Sheets of Cellulose and Fibrous Material, Single Sheets of Cellulose and Fibrous Material or Such Laminated Sheets with a Backing of Paper or Cloth, Having in Many Cases Decorative or Ornamental Designs; These Sheets When Properly Cut and Formed May be Used in Making Up Various Articles Such as Lamp Shades, Artificial Flowers, Table Covers, Doilies, Box Covers, Backgrounds for Framed Pictures; Hangings, Wall Paper, Etc.
Claims use since Dec. 27, 1929.

Ser. No. 294,915. Columbus Coated Fabrics Corporation, Columbus, Ohio. Filed Jan. 18, 1930.

SATINESQUE

For Pyroxylin-Coated Fabrics Used as a Substitute for Leather and as Wall Coverings.
Claims use since Jan. 14, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 8, 1930

269,387. TOY BLOCKS. Appleton Wood Products Co., Appleton, Wis.
Filed October 26, 1929. Serial No. 291,604. PUBLISHED JANUARY 21, 1930. Class 22.

269,388. TALLIES, PLACE CARDS, SCORE CARDS, AND TALLY HOLDERS. The Buzza Company Inc., Minneapolis, Minn.
Filed October 21, 1929. Serial No. 291,320. PUBLISHED JANUARY 21, 1930. Class 37.

269,389. MAGAZINE PUBLISHED PERIODICALLY. Good Story Magazine Company, Inc., New York, N. Y.
Filed October 12, 1929. Serial No. 291,030. PUBLISHED JANUARY 28, 1930. Class 38.

269,390. REGISTERS FOR HOLDING AND FEEDING A PLURALITY OF WORK-SHEET STRIPS TO BE WRITTEN UPON THEREIN BY HAND. Autographic Register Company, Hoboken, N. J.
Filed October 11, 1929. Serial No. 290,928. PUBLISHED JANUARY 28, 1930. Class 37.

269,391. WRITING AND PRINTING PAPER, PAPETERIES, ETC. Strathmore Paper Company, Mittineague, Mass.
Filed October 10, 1929. Serial No. 290,913. PUBLISHED JANUARY 28, 1930. Class 37.

269,392. BOTTLE HOLDERS FOR NURSING BOTTLES. Paul E. Allen, Chicago, Ill.
Filed October 7, 1929. Serial No. 290,731. PUBLISHED JANUARY 21, 1930. Class 44.

269,393. CERTAIN GAMES, TOYS, AND SPORTING GOODS. L. Bamberger & Co., Newark, N. J.
Filed September 27, 1929. Serial No. 290,297. PUBLISHED NOVEMBER 26, 1929. Class 22.

269,394. CERTAIN NAMED PAINT PRODUCTS. National Tank Seal Company, Tulsa, Okla.
Filed September 3, 1929. Serial No. 289,286. PUBLISHED JANUARY 28, 1930. Class 16.

269,395. PAINTS AND PAINT PIGMENTS. Odell Wilson, Auburn, Calif.
Filed August 19, 1929. Serial No. 288,736. PUBLISHED JANUARY 28, 1930. Class 16.

269,396. THERAPEUTIC LAMPS. United Products Company, St. Louis, Mo.
Filed August 5, 1929. Serial No. 288,149. PUBLISHED JANUARY 28, 1930. Class 44.

269,397. PARCHMENT WRAPPING PAPER. The Patterson Parchment Paper Co., Passaic, N. J.
Filed July 29, 1929. Serial No. 287,841. PUBLISHED JANUARY 21, 1930. Class 37.

269,398. CERTAIN NAMED PAINT PRODUCTS. The Pep Boys—Manny, Moe & Jack, doing business as Varsity Products Co., Philadelphia, Pa.
Filed July 6, 1929. Serial No. 286,715. PUBLISHED JANUARY 28, 1930. Class 16.

269,399. PACKAGED CONFECTIONERY—NAMELY, CANDIES AND CUBE SUGAR. Harold S. Vinson, doing business as Crystal Studio, Ottumwa, Iowa.
Filed November 25, 1929. Serial No. 292,915. PUBLISHED JANUARY 28, 1930. Class 46.

269,400. EDIBLE OILS—NAMELY, OLIVE OIL. Coen Companies Inc., Los Angeles, Calif.
Filed November 25, 1929. Serial No. 292,866. PUBLISHED JANUARY 21, 1930. Class 46.

269,401. CANNED CORN. Northland Canning Company, Cokato, Minn.
Filed November 23, 1929. Serial No. 292,822. PUBLISHED JANUARY 28, 1930. Class 46.

269,402. COMPOUND OF CORN SYRUP AND WEST INDIA MOLASSES. Mangels-Herold Company, Inc., Baltimore, Md.
Filed November 23, 1929. Serial No. 292,816. PUBLISHED JANUARY 21, 1930. Class 46.

269,403. CANNED FRUITS AND VEGETABLES, CANNED FISH, CANNED TOMATO PURÉE, AND CANNED HOMINY. Vincennes Packing Corporation, Vincennes, Ind.
Filed November 22, 1929. Serial No. 292,766. PUBLISHED JANUARY 28, 1930. Class 46.

269,404. ALIMENTARY PASTE PRODUCTS, ESPECIALLY NOODLES, MACARONI, AND SPAGHETTI, IN CONVENTIONAL FORMS AND VARYING DESIGNS AND SHAPES. The Pfaffman Egg Noodle Company, Cleveland, Ohio.
Filed November 22, 1929. Serial No. 292,748. PUBLISHED JANUARY 21, 1930. Class 46.

269,405. CREAMS AND FONDANTS FOR CONFECTIONS, CANDIES, CAKES, ETC., FLOUR MIXTURES FOR DOUGHNUTS, CAKES, ETC. J. W. Allen & Co., Chicago, Ill.
Filed November 22, 1929. Serial No. 292,702. PUBLISHED JANUARY 21, 1930. Class 46.

269,406. MALT SYRUP. Louis Slunecko, Jr., doing business as Slunecko Food Products, Chicago, Ill.
Filed November 21, 1929. Serial No. 292,686. PUBLISHED JANUARY 21, 1930. Class 46.

269,407. FRESH POTATOES. J. L. Robinson, doing business as National Produce, Kansas City, Mo.
Filed November 11, 1929. Serial No. 292,289. PUBLISHED JANUARY 28, 1930. Class 46.

269,408. SAUSAGE AND SCRAPPLE. Paul M. Adams, doing business as Ralph and Paul Adams, Bridgeville, Del.
Filed November 7, 1929. Serial No. 292,086. PUBLISHED JANUARY 28, 1930. Class 46.

269,409. CANNED RAW OYSTERS. H. W. Sockwell & Sons, Maurice River, N. J.
Filed October 21, 1929. Serial No. 291,362. PUBLISHED JANUARY 28, 1930. Class 46.

269,410. WOMEN'S AND MISSES' READY-TO-WEAR APPAREL—NAMELY, CLOAKS, SUITS, DRESSES, STOCKINGS, LEATHER AND FABRIC SHOES, HATS, BLOOMERS, CHEMISES, BRASSIÈRES, AND SLIPS. Three Sisters, Inc., New York, N. Y.
Filed October 5, 1929. Serial No. 290,723. PUBLISHED JANUARY 21, 1930. Class 39.

269,411. WOMEN'S AND MISSES' READY-TO-WEAR APPAREL—NAMELY, CLOAKS, SUITS, DRESSES, STOCKINGS, LEATHER AND FABRIC SHOES, HATS, BLOOMERS, CHEMISES, BRASSIÈRES, AND SLIPS. Three Sisters, Inc., New York, N. Y.
Filed October 4, 1929. Serial No. 290,674. PUBLISHED JANUARY 21, 1930. Class 39.

269,412. FRESH GRAPES AND FRESH CITRUS FRUITS. M. N. Jensen, Orange Cove, Calif.
Filed October 1, 1929. Serial No. 290,467. PUBLISHED JANUARY 21, 1930. Class 46.

269,413. IMITATION WHIPPED CREAM. Sylvan M. Bates, doing business as Bates Whip-to-Cream Co., Huntington Park, Calif.
Filed October 3, 1929. Serial No. 290,538. PUBLISHED JANUARY 21, 1930. Class 46.

269,414. COFFEE. L. PIMPAO & Co., Elizabeth, N. J.
Filed October 2, 1929. Serial No. 290,521. PUBLISHED JANUARY 28, 1930. Class 46.

269,415. WOMEN'S HATS. JESSE MEYER, Jersey City, N. J.
Filed October 1, 1929. Serial No. 290,473. PUBLISHED JANUARY 21, 1930. Class 39.

269,416. CHOCOLATE CANDIES. KEMP SISTERS, New York, N. Y.
Filed September 27, 1929. Serial No. 290,314. PUBLISHED JANUARY 28, 1930. Class 46.

269,417. CANNED SLICED AND CRUSHED PINEAPPLE AND PINEAPPLE JUICE USED FOR FOOD-FLAVORING PURPOSES. HAWAIIAN CANNERIES COMPANY, LTD., Kapaa, Kauai, Territory of Hawaii.
Filed September 26, 1929. Serial No. 290,252. PUBLISHED JANUARY 21, 1930. Class 46.

269,418. FRESH VEGETABLES—NAMELY, TOMATOES. BOON CASWELL & TINDEL, Tyler, Tex.
Filed September 10, 1929. Serial No. 289,569. PUBLISHED JANUARY 28, 1930. Class 46.

269,419. MALT SYRUP. THE BACHRACH-FELD CO., doing business as Old Colonel Malt Co., Cincinnati, Ohio.
Filed September 9, 1929. Serial No. 289,493. PUBLISHED JANUARY 21, 1930. Class 46.

269,420. CANNED SLICED AND CRUSHED PINEAPPLE AND PINEAPPLE JUICE USED FOR FOOD-FLAVORING PURPOSES. HAWAIIAN CANNERIES COMPANY, LTD., Kapaa, Kauai, Territory of Hawaii.
Filed August 21, 1929. Serial No. 288,804. PUBLISHED JANUARY 21, 1930. Class 46.

269,421. CANNED SLICED AND CRUSHED PINEAPPLE AND PINEAPPLE JUICE USED FOR FOOD-FLAVORING PURPOSES. HAWAIIAN CANNERIES COMPANY, LTD., Kapaa, Kauai, Territory of Hawaii.
Filed August 21, 1929. Serial No. 288,802. PUBLISHED JANUARY 21, 1930. Class 46.

269,422. CANNED SLICED AND CRUSHED PINEAPPLE AND PINEAPPLE JUICE USED FOR FOOD-FLAVORING PURPOSES. HAWAIIAN CANNERIES COMPANY, LTD., Kapaa, Kauai, Territory of Hawaii.
Filed August 21, 1929. Serial No. 288,800. PUBLISHED JANUARY 21, 1930. Class 46.

269,423. HERRINGS PRESERVED IN BRINE. ALEXANDER WOOD & SON, Peterhead, Scotland.
Filed July 22, 1929. Serial No. 287,516. PUBLISHED JANUARY 28, 1930. Class 46.

269,424. SHELLED AND UNSHELLED NUTS OF ALL KINDS AND CONFECTIONS — NAMELY, ALL KINDS OF CANDIES. GEORGE M. MEATH, Kansas City, Mo.
Filed July 27, 1929. Serial No. 287,762. PUBLISHED JANUARY 28, 1930. Class 46.

269,425. ICE CREAM AND ICE-CREAM SUCKERS. GOOD HUMOR CORPORATION OF AMERICA, Cleveland, Ohio.
Filed July 12, 1929. Serial No. 286,986. PUBLISHED JANUARY 28, 1930. Class 46.

269,426. CANDY. E. J. BRACH & SONS, Chicago, Ill.
Filed June 17, 1929. Serial No. 285,704. PUBLISHED JULY 30, 1929. Class 46.

269,427. CANDY. REID, MURDOCH & Co., Chicago, Ill.
Filed June 6, 1929. Serial No. 285,172. PUBLISHED JANUARY 28, 1930. Class 46.

269,428. TABLE SYRUP. EARL ALBERT TYLER, doing business as Tyler Products Co., Pawtucket, R. I.
Filed November 18, 1929. Serial No. 292,560. PUBLISHED JANUARY 28, 1930. Class 46.

269,429. FLAVORING EXTRACT FOR CONFECTIONERY, BAKING, AND FOODS. RALPH PICHEL, doing business as The Old Servitor Distributing Co., Hartsdale, N. Y.
Filed November 15, 1929. Serial No. 292,460. PUBLISHED JANUARY 28, 1930. Class 46.

269,430. FLAVORING EXTRACT FOR CONFECTIONERY, BAKING, AND FOODS. RALPH PICHEL, doing business as The Old Servitor Distributing Co., Hartsdale, N. Y.
Filed November 14, 1929. Serial No. 292,418. PUBLISHED JANUARY 28, 1930. Class 46.

269,431. FRESH DECIDUOUS FRUITS, FRESH CITRUS FRUITS, FRESH CANTALOUPES, FRESH WATERMELONS, FRESH BERRIES, FRESH GRAPES, AND FRESH VEGETABLES. SCOBEL & DAY, INC., New York, N. Y.
Filed November 11, 1929. Serial No. 292,291. PUBLISHED JANUARY 28, 1930. Class 46.

269,432. HEALTH-BUILDING NONCEREAL AND MALTLESS NONALCOHOLIC BEVERAGE. PAUL SCHREIBER AND SON, New York, N. Y.
Filed November 25, 1929. Serial No. 292,908. PUBLISHED JANUARY 28, 1930. Class 45.

269,433. APPARATUS FOR REMOVING WALL PAPER, CONSISTING IN A PORTABLE STEAM-GENERATING BOILER CONNECTED BY HOSE TO A WALL APPLICATOR. MILLER MANUFACTURING COMPANY, Elkhart, Ind.
Filed November 25, 1929. Serial No. 292,886. PUBLISHED JANUARY 28, 1930. Class 23.

269,434. KNOCKDOWN ENDLESS-BELT PORTABLE CONVEYORS FOR STATIONARY INDUSTRIAL USES. CLARENCE R. CLAGHORN, Baltimore, Md.
Filed November 25, 1929. Serial No. 292,865. PUBLISHED JANUARY 28, 1930. Class 23.

269,435. ELECTRIC LANTERNS. DELTA ELECTRIC COMPANY, Marion, Ind.
Filed November 23, 1929. Serial No. 292,797. PUBLISHED JANUARY 14, 1930. Class 21.

269,436. TABLE HOLLOW WARE OF BASE METAL PLATED WITH PRECIOUS METAL. FRIEDMAN SILVER CO., INC., Brooklyn, N. Y.
Filed November 18, 1929. Serial No. 292,724. PUBLISHED JANUARY 14, 1930. Class 28.

269,437. GINGER ALE. HIGRADE BOTTLING COMPANY, doing business as Higrade Products Co., Braddock, Pa.
Filed November 21, 1929. Serial No. 292,667. PUBLISHED JANUARY 28, 1930. Class 45.

269,438. PUMPS; PUMPING UNITS, WHICH INCLUDE A PUMP SUPPORT, PUMP, ELECTRIC MOTOR, STORAGE TANK, CONTROL SWITCH, AND STRAINER. DECATUR PUMP COMPANY, Decatur, Ill.
Filed November 20, 1929. Serial No. 292,620. PUBLISHED JANUARY 28, 1930. Class 23.

269,439. BINOCULARS. C-ALL-SCOPE CORPORATION, New York, N. Y.
Filed November 20, 1929. Serial No. 292,612. PUBLISHED JANUARY 28, 1930. Class 26.

269,440. IGNITION APPARATUS FOR INTERNAL COMBUSTION ENGINES—NAMELY, SPARK PLUGS. ROBERT BOSCH MAGNETO COMPANY, INC., Long Island City, N. Y.
Filed November 19, 1929. Serial No. 292,574. PUBLISHED JANUARY 14, 1930. Class 21.

269,441. RADIO RECEIVING SETS. GAMBLE STORES, INCORPORATED, Minneapolis, Minn.
Filed November 16, 1929. Serial No. 292,495. PUBLISHED JANUARY 14, 1930. Class 21.

269,442. AUTOMATIC WEIGHING SCALES, BALANCE WEIGHING SCALES, AND AUTOMATIC BALANCE WEIGHING SCALES. VOGEL AND HALKE, Hamburg, Germany.
Filed November 13, 1929. Serial No. 292,378. PUBLISHED JANUARY 21, 1930. Class 26.

269,443. REAMERS, REAMER PILOTS, REAMER GUIDES, ETC. EVANS FLEXIBLE REAMER CORPORATION, Chicago, Ill.
Filed November 4, 1929. Serial No. 291,968. PUBLISHED JANUARY 28, 1930. Class 23.

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269,444. RADIO RECEIVING SETS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed November 1, 1929. Serial No. 291,868. PUBLISHED JANUARY 14, 1930. Class 21.

269,445. GASOLINE AND LUBRICATING OIL AND GREASE. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 29, 1929. Serial No. 291,721. PUBLISHED JANUARY 28, 1930. Class 15.

269,446. ELECTRIC BATTERIES, ELECTRIC FLASH LIGHTS, FLASH-LIGHT CASES, AND RADIO ELECTRON TUBES. BRIGHT STAR BATTERY COMPANY, Hoboken, N. J.
Filed November 22, 1929. Serial No. 292,714. PUBLISHED JANUARY 14, 1930. Class 21.

269,447. OZONE-GENERATING MACHINES. HYMAN ROSENFELD, New York, N. Y.
Filed October 26, 1929. Serial No. 291,639. PUBLISHED JANUARY 14, 1930. Class 21.

269,448. WOOD-WIND, BRASS, REED, AND STRING ORCHESTRAL INSTRUMENTS. CARL FISCHER INC., New York, N. Y.
Filed October 17, 1929. Serial No. 291,158. PUBLISHED JANUARY 14, 1930. Class 36.

269,449. ELECTRICAL ADVERTISING SIGNS. CREW-LEIDGEN, INC., Muskegon and Muskegon Heights, Mich.
Filed October 14, 1929. Serial No. 291,049. PUBLISHED JANUARY 14, 1930. Class 21.

269,450. HANDKERCHIEFS. HARRY S. COHEN, Hartford, Conn.
Filed October 3, 1929. Serial No. 290,551. PUBLISHED JANUARY 28, 1930. Class 42.

269,451. ZYLOPHONES. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed September 13, 1929. Serial No. 289,787. PUBLISHED JANUARY 28, 1930. Class 36.

269,452. CERTAIN ARTICLES IN THE NATURE OF TOYS. THE ULLMAN MANUFACTURING COMPANY, Long Island City, N. Y.
Filed November 27, 1929. Serial No. 293,015. PUBLISHED JANUARY 28, 1930. Class 22.

269,453. NONALCOHOLIC, NONCEREAL, MALTLESS CORDIALS. BELMONT PRODUCTS COMPANY, Fort Wayne, Ind.
Filed December 12, 1929. Serial No. 293,569. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,454. DENTIFRICES, TALCUMS, SACCHARINE, ETC. THE SYDNEY ROSS CO., Newark, N. J.
Filed December 7, 1929. Serial No. 293,382. PUBLISHED JANUARY 21, 1930. Class 6.

269,455. DENTIFRICES, TALCUM POWDERS, QUININE, ETC. THE SYDNEY ROSS CO., Newark, N. J.
Filed December 7, 1929. Serial No. 293,381. PUBLISHED JANUARY 21, 1930. Class 6.

269,456. TALKING MACHINES AND PARTS THEREOF. GEBRÜDER SCHARF, Berlin, Germany.
Filed September 12, 1929. Serial No. 289,694. PUBLISHED JANUARY 14, 1930. Class 36.

269,457. ELECTRIC-LIGHTING UNITS PARTICULARLY ADAPTED FOR USE IN MOTION-PICTURE-PROJECTION MACHINES. HALL & CONNOLLY, INC., New York, N. Y.
Filed July 19, 1929. Serial No. 287,894. PUBLISHED JANUARY 28, 1930. Class 26.

269,458. LINIMENT FOR USE IN THE TREATMENT OF CROUP, COLDS, AND HOARSENESS. SHIELDS CROUP LINIMENT CO., Minier, Ill.
Filed November 9, 1929. Serial No. 292,231. PUBLISHED JANUARY 28, 1930. Class 6.

269,459. WASHING FLUID. I'M ALONE PRODUCTS COMPANY, New York, N. Y.
Filed November 9, 1929. Serial No. 292,195. PUBLISHED JANUARY 28, 1930. Class 4.

269,460. PERIODICAL. NATIONAL FEDERATION OF BUSINESS AND PROFESSIONAL WOMEN'S CLUBS, INC., New York, N. Y.
Filed November 4, 1929. Serial No. 292,000. PUBLISHED JANUARY 28, 1930. Class 38.

269,461. FISHING RODS. G. H. MANSFIELD & Co. INC., Canton, Mass.
Filed November 4, 1929. Serial No. 291,991. PUBLISHED JANUARY 21, 1930. Class 22.

269,462. POLISH AND CLEANER FOR FURNITURE, AUTOMOBILES, AND OTHER PAINTED AND VARNISHED SURFACES. THE REX-LIN CORPORATION, Chicago, Ill.
Filed November 1, 1929. Serial No. 291,891. PUBLISHED JANUARY 14, 1930. Class 16.

269,463. STEEL CASTINGS. THE FARRELL-CHEEK STEEL FOUNDRY CO., Sandusky, Ohio.
Filed November 1, 1929. Serial No. 291,860. PUBLISHED JANUARY 21, 1930. Class 14.

269,464. FACE POWDER IN LOOSE AND CAKE FORM AND ROUGE. LUCIEN LELONG, INC., Chicago, Ill.
Filed October 28, 1929. Serial No. 291,676. PUBLISHED JANUARY 21, 1930. Class 6.

269,465. DAILY NEWSPAPER. PERTH AMBOY EVENING NEWS CO., Perth Amboy, N. J.
Filed November 29, 1929. Serial No. 293,066. PUBLISHED JANUARY 21, 1930. Class 38.

269,466. BRICK. EMMETT V. POSTON, Springfield, Ill.
Filed May 8, 1929. Serial No. 283,696. PUBLISHED JANUARY 28, 1930. Class 12.

269,467. READY-MIXED PAINT. THE CHARLES MOSER COMPANY, Cincinnati, Ohio.
Filed May 6, 1929. Serial No. 283,579. PUBLISHED JUNE 18, 1929. Class 16.

269,468. TWEEZERS FOR REMOVING HAIR. THE KURLASH COMPANY INC., Rochester, N. Y.
Filed May 4, 1929. Serial No. 283,505. PUBLISHED JANUARY 21, 1930. Class 44.

269,469. FINGER RINGS AND MOUNTINGS THEREFOR. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y.
Filed April 20, 1929. Serial No. 282,707. PUBLISHED JANUARY 14, 1930. Class 28.

269,470. DRAPES, DRAPERIES, TABLE COVERS, ETC. PARA RUBBER CO., Newark, N. J.
Filed April 17, 1929. Serial No. 282,566. PUBLISHED JANUARY 28, 1930. Class 50.

269,471. BOYS' DRESS SHIRTS AND BLOUSES. CHARLES GREENBERG, New York, N. Y.
Filed April 17, 1929. Serial No. 282,551. PUBLISHED AUGUST 13, 1929. Class 39.

269,472. APPLE BUTTER, BACON, CANNED BERRIES, ETC. GEORGE W. SIMMONS CORPORATION, New York, N. Y., assignor to George W. Simmons Corporation, a Corporation of Missouri.
Filed April 9, 1929. Serial No. 282,145. PUBLISHED JANUARY 28, 1930. Class 46.

269,473. NURSERY STOCK—NAMELY, APPLE TREES. COLUMBIA & OKANOGAN NURSERY COMPANY, Wenatchee, Wash.
Filed March 26, 1929. Serial No. 281,344. PUBLISHED JANUARY 28, 1930. Class 1.

269,474. MEDICINAL PREPARATION. CYNTHIA BROWN'S INDIAN COMPOUND CO., Denison, Iowa.
Filed March 18, 1929. Serial No. 280,880. PUBLISHED JANUARY 21, 1930. Class 6.

269,475. CANNED FRUITS AND VEGETABLES, OLIVES, JAMS, ETC. R. M. BUCHANAN, doing business as Norris-Buchanan Co., Evanston, Ill.
Filed March 14, 1929. Serial No. 280,669. PUBLISHED JANUARY 28, 1930. Class 46.

269,476. ICE-CREAM CONES. THE MARYLAND BAKING COMPANY, doing business as Midwest Cone Co., Inc., Baltimore, Md.
Filed February 28, 1929. Serial No. 280,061. PUBLISHED JANUARY 28, 1930. Class 46.

269,477. ICE-CREAM CONES. THE MARYLAND BAKING COMPANY, doing business as National Cone Company, Baltimore, Md.
Filed February 28, 1929. Serial No. 280,079. PUBLISHED JANUARY 28, 1930. Class 46.

269,478. ICE-CREAM CONES. THE MARYLAND BAKING COMPANY, doing business as Midwest Cone Co., Inc., Baltimore, Md.
Filed February 28, 1929. Serial No. 280,078. PUBLISHED JANUARY 28, 1930. Class 46.

269,479. VARNISH. ALFRED PEATS COMPANY, Chicago, Ill.
Filed February 25, 1929. Serial No. 279,877. PUBLISHED JUNE 4, 1929. Class 16.

269,480. HOSIERY. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed February 20, 1929. Serial No. 279,651. PUBLISHED APRIL 16, 1929. Class 39.

269,481. MULCH PAPER. INTERNATIONAL PAPER COMPANY, New York, N. Y.
Filed November 27, 1929. Serial No. 292,094. PUBLISHED JANUARY 21, 1930. Class 37.

269,482. MEN'S DRESS AND WORK SHIRTS. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed November 25, 1929. Serial No. 292,881. PUBLISHED JANUARY 21, 1930. Class 39.

269,483. MEDICINAL PREPARATION FOR THE TREATMENT OF SYPHILIS. GEORGE GABRIEL ULMER, doing business as Ulmer Laboratories, Minneapolis, Minn.
Filed November 23, 1929. Serial No. 292,840. PUBLISHED JANUARY 21, 1930. Class 6.

269,484. MEDICINAL PREPARATION FOR THE TREATMENT OF SYPHILIS. GEORGE GABRIEL ULMER, doing business as Ulmer Laboratories, Minneapolis, Minn.
Filed November 23, 1929. Serial No. 292,839. PUBLISHED JANUARY 21, 1930. Class 6.

269,485. MEDICINAL PREPARATION FOR THE TREATMENT OF SYPHILIS. GEORGE GABRIEL ULMER, doing business as Ulmer Laboratories, Minneapolis, Minn.
Filed November 23, 1929. Serial No. 292,838. PUBLISHED JANUARY 21, 1930. Class 6.

269,486. MEDICINAL PREPARATION FOR THE TREATMENT OF SYPHILIS. GEORGE GABRIEL ULMER, doing business as Ulmer Laboratories, Minneapolis, Minn.
Filed November 23, 1929. Serial No. 292,837. PUBLISHED JANUARY 21, 1930. Class 6.

269,487. MEN'S AND BOYS' SUITS, TOPCOATS, OVERCOATS, JACKETS, VESTS, TROUSERS, AND KNICKERS. THE HILTON COMPANY, INC., Newark, N. J.
Filed November 23, 1929. Serial No. 292,805. PUBLISHED JANUARY 21, 1930. Class 39.

269,488. CHEMICAL MIXTURES AND COLOR MIXTURES. GEORGE E. BARNHART, New Brighton, Pa.
Filed November 23, 1929. Serial No. 292,783. PUBLISHED JANUARY 28, 1930. Class 12.

269,489. WORK SHIRTS, FLANNEL SHIRTS, AND OVERALLS. WILSON F. SNELBAKER, doing business as The Snelbaker Manufacturing Co., Mechanicsburg, Pa.
Filed November 22, 1929. Serial No. 292,753. PUBLISHED JANUARY 21, 1930. Class 39.

269,490. MOUTH ASTRINGENT, ANTISEPTIC GARGLE, AND DEODORANT. ISIDORE GREENBERG, Brooklyn, N. Y.
Filed November 21, 1929. Serial No. 292,664. PUBLISHED JANUARY 21, 1930. Class 6.

269,491. COMPOUND FOR TREATMENT OF COLD SORES, RINGWORM, ITCH, ETC. HENDERSON & SKIPWORTH, San Francisco, Calif.
Filed November 18, 1929. Serial No. 292,567. PUBLISHED JANUARY 21, 1930. Class 6.

269,492. SALVE OR OINTMENT OF WITCH-HAZEL. LANMAN & KEMP, INC., New York, N. Y.
Filed November 18, 1929. Serial No. 292,540. PUBLISHED JANUARY 21, 1930. Class 6.

269,493. LINIMENT FOR EXTERNAL USE IN THE TREATMENT OF RHEUMATISM, NEURALGIA, GOUT, SCIATICA, PAINS IN THE NECK AND CHEST, DISLOCATIONS, BRUISES, INSECT BITES, AND BURNS. LANMAN & KEMP, INC., New York, N. Y.
Filed November 18, 1929. Serial No. 292,537. PUBLISHED JANUARY 21, 1930. Class 6.

269,494. RUBBERIZED FABRICS—I. E., FABRICS TREATED WITH A RUBBER COATING. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed November 8, 1929. Serial No. 292,190. PUBLISHED JANUARY 28, 1930. Class 50.

269,495. ASPHALT EMULSION. THE FLINTKOTE COMPANY, Boston, Mass.
Filed November 7, 1929. Serial No. 292,099. PUBLISHED JANUARY 28, 1930. Class 12.

269,496. CHEMICAL PREPARATION USED FOR KILLING WEEDS. CHIPMAN CHEMICAL ENGINEERING COMPANY, INC., Middlesex, N. J.
Filed November 6, 1929. Serial No. 292,065. PUBLISHED JANUARY 21, 1930. Class 6.

269,497. REFRACTORY CEMENT. THE INLAND FIRE BRICK COMPANY, Cleveland, Ohio.
Filed November 1, 1929. Serial No. 291,874. PUBLISHED JANUARY 28, 1930. Class 12.

269,498. RUBBER AND COMPOSITION SLABS FROM WHICH SOLES AND HEELS MAY BE CUT FOR BOOTS AND SHOES. ESSEX RUBBER COMPANY INC., Trenton, N. J.
Filed October 15, 1929. Serial No. 291,084. PUBLISHED JANUARY 28, 1930. Class 1.

269,499. COMPOUNDED UNVULCANIZED RUBBER IN THE FORM OF SHEETS AND ROLLS FOR USE IN THE MANUFACTURE AND REPAIR OF RUBBER ARTICLES AND UNCURED SHEET RUBBER WITH VULCANIZED BACKING. THE FEDERAL RUBBER COMPANY, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass.
Filed August 23, 1929. Serial No. 288,908. PUBLISHED JANUARY 28, 1930. Class 1.

269,500. CERTAIN NAMED FOODS. THE JANSZEN COMPANY, Cincinnati, Ohio.
Filed May 3, 1928. Serial No. 265,844. PUBLISHED OCTOBER 16, 1928. Class 46.

Filed September 24, 1926. Serial No. 237,652. PUBLISHED NOVEMBER 9, 1926. Class 32.

269,501. MATTRESSES, PILLOWS, CUSHIONS, AND BOX SPRINGS. BURTON-DIXIE CORPORATION, Chicago, Ill.

269,502. DRY CLEANER. APEX MOTOR FUEL COMPANY, doing business as Apex Laboratories, Chicago, Ill.
Filed March 18, 1926. Serial No. 228,792. PUBLISHED JULY 5, 1927. Class 4.

269,503. MEN'S, WOMEN'S, AND CHILDREN'S FOOTWEAR—NAMELY, SHOES, SLIPPERS, MULES, AND SPATS OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF, AND HOSE. WETHERBY-KAYSER SHOE CO., Los Angeles, Calif.
Filed March 16, 1926. Serial No. 228,730. PUBLISHED JUNE 15, 1926. Class 39.

269,504. CERTAIN NAMED MEDICINAL PREPARATIONS. EARL WILDMAN, doing business as Bell Chemical Works, Bellevue, Ky.
Filed August 25, 1924. Serial No. 201,870. PUBLISHED NOVEMBER 11, 1924. Class 6.

269,505. FACE CREAM. FLORIAN, INC., Detroit, Mich.
Filed December 18, 1928. Serial No. 276,937. PUBLISHED JANUARY 21, 1930. Class 6.

269,506. SHEEVE BLOCKS. BUCKHOUT BOAT CORPORATION, Poughkeepsie, N. Y.
Filed December 15, 1928. Serial No. 276,768. PUBLISHED JANUARY 28, 1930. Class 23.

269,507. MALT SYRUP. FRANK L. BRZOSKA, doing business as Detroit Malt Extract Co., Dayton, Ohio.
Filed November 30, 1928. Serial No. 276,064. PUBLISHED JANUARY 28, 1930. Class 46.

269,508. READY-MIXED PAINTS. L. FRANCIS CASSOFF, doing business as The Central Paint and Varnish Works, Brooklyn, N. Y.
Filed November 20, 1928. Serial No. 275,555. PUBLISHED JANUARY 28, 1930. Class 16.

269,509. LUBRICATING OILS AND LUBRICATING GREASES. THE PENNZOIL COMPANY, Los Angeles, Calif.
Filed November 13, 1928. Serial No. 275,288. PUBLISHED FEBRUARY 26, 1929. Class 15.

269,510. ENAMELED WARE. COLUMBIAN ENAMELING & STAMPING CO., Terre Haute, Ind.
Filed October 20, 1928. Serial No. 274,037. PUBLISHED JANUARY 7, 1930. Class 13.

269,511. MUSTARD DRESSING AND MAYONNAISE DRESSING. JOSEPH DALPHOND, doing business as Dalphond Products Company, Pelham, N. H.
Filed October 12, 1928. Serial No. 273,742. PUBLISHED JANUARY 21, 1930. Class 46.

269,512. CANNED FISH, SHELLFISH, PRESERVED FISH, ETC. COMPANIA DE PRODUCTOS MARINOS, SOCIEDAD ANONIMA, Ensenada, Lower California, Mexico.
Filed September 11, 1928. Serial No. 272,287. PUBLISHED DECEMBER 10, 1929. Class 46.

269,513. LUBRICATING AND PENETRATING OIL. EMEROL MANUFACTURING CO., New York, N. Y.
Filed August 13, 1928. Serial No. 270,961. PUBLISHED OCTOBER 30, 1928. Class 15.

269,514. LOOSE-LEAF BLANK BOOKS. SALES EQUIPMENT COMPANY, Detroit, Mich.
Filed August 8, 1928. Serial No. 270,758. PUBLISHED MARCH 12, 1929. Class 37.

269,515. WATERPROOFING COMPOUND FOR TREATING CONCRETE, BRICK, PLASTER, STONE, MORTAR, ETC. THE CON-TEX CORPORATION, New York, N. Y.
Filed May 28, 1929. Serial No. 284,720. PUBLISHED JANUARY 28, 1930. Class 12.

269,516. TOMATO CATSUP AND CANNED CORN, PEAS, BEANS, AND TOMATOES. CHARLES E. MEYER & CO., doing business as Freeport Sales Co., Freeport, Ill.
Filed May 27, 1929. Serial No. 284,660. PUBLISHED AUGUST 20, 1929. Class 46.

269,517. REMOVABLE SANITARY PADS FOR DIAPERS AND THE LIKE. DOWNER PRODUCTS COMPANY, Sioux City, Iowa.
Filed May 27, 1929. Serial No. 284,658. PUBLISHED JANUARY 28, 1930. Class 44.

269,518. COTTON AND RAYON THREADS. INDEPENDENT THREAD MILLS, INCORPORATED, Chicago, Ill.
Filed May 20, 1929. Serial No. 284,342. PUBLISHED AUGUST 13, 1929. Class 48.

269,519. BRICK. EMMETT V. POSTON, Springfield, Ill.
Filed May 11, 1929. Serial No. 283,893. PUBLISHED JANUARY 28, 1930. Class 12.

269,520. DOUBLE EXTRACT OF WITCH-HAZEL. LANMAN & KEMP, INC., New York, N. Y.
Filed November 18, 1929. Serial No. 292,538. PUBLISHED JANUARY 21, 1930. Class 6.

269,521. CANDIES. HAROLD E. RICHMOND, Mount Carmel, Conn.
Filed November 30, 1929. Serial No. 293,109. PUBLISHED JANUARY 28, 1930. Class 46.

269,522. CASTING GOLD FOR DENTAL USE. SPICO SMELTING AND REFINING CO., Minneapolis, Minn.
Filed December 7, 1929. Serial No. 293,886. PUBLISHED JANUARY 21, 1930. Class 44.

269,523. BOARDS USED IN GAMES PLAYED WITH CARDS. THE BISHOP PRODUCTS COMPANY, Cleveland, Ohio.
Filed December 9, 1929. Serial No. 293,404. PUBLISHED JANUARY 21, 1930. Class 22.

269,524. ELECTRIC TOY IRONS AND ELECTRIC TOY COOKING RANGES. METROPOLITAN MFG. & ELECTRIC CO., Chicago, Ill.
Filed December 4, 1929. Serial No. 293,227. PUBLISHED JANUARY 21, 1930. Class 22.

269,525. TABLE GAME OF SKILL AND CHANCE. ERNEST O. ROARK, Kansas City, Mo.
Filed November 29, 1929. Serial No. 293,072. PUBLISHED JANUARY 28, 1930. Class 22.

269,526. PHOTOGRAPHIC CAMERAS. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed December 11, 1929. Serial No. 293,522. PUBLISHED JANUARY 28, 1930. Class 26.

269,527. HATRACKS. HENRY R. AUSTIN, doing business as Austin Novelty Co., Wollaston, Mass.
Filed December 11, 1929. Serial No. 293,511. PUBLISHED JANUARY 28, 1930. Class 32.

269,528. MOTION-PICTURE PHOTOPLAYS. UNIVERSAL PICTURES CORPORATION, New York, N. Y.
Filed December 10, 1929. Serial No. 293,495. PUBLISHED JANUARY 28, 1930. Class 26.

269,529. SEWING MACHINES. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y.
Filed December 10, 1929. Serial No. 293,463. PUBLISHED JANUARY 28, 1930. Class 23.

269,530. SPECTACLE FRAMES. RIGGS OPTICAL COMPANY, CONSOLIDATED, Chicago, Ill.
Filed December 9, 1929. Serial No. 293,451. PUBLISHED JANUARY 28, 1930. Class 26.

269,531. BEVERAGES AND SIRUPS, EXTRACTS, ETC., FOR MAKING THE SAME. PEOPLES BOTTLING COMPANY INC., Akron, Ohio.
Filed December 7, 1929. Serial No. 293,378. PUBLISHED JANUARY 28, 1930. Class 45.

269,532. RAZORS, SAFETY-RAZOR BLADES, TABLE KNIVES OF BASE METAL, KITCHEN KNIVES, POCKETKNIVES, AND SCISSORS. JOSEPH RODGERS & SONS LIMITED, Sheffield, England.
Filed December 6, 1929. Serial No. 293,349. PUBLISHED JANUARY 28, 1930. Class 23.

269,533. PNEUMATIC-TIRE CASINGS AND TUBES FOR PNEUMATIC TIRES. CORLISS ANDERSON TIRE CORPORATION, New York, N. Y.
Filed December 6, 1929. Serial No. 293,312. PUBLISHED JANUARY 28, 1930. Class 35.

269,534. INNER TUBES FOR TIRES. AARON MEYEROWITZ, doing business as The Brooklyn Tire Exchange, Brooklyn, N. Y.
Filed December 4, 1929. Serial No. 293,228. PUBLISHED JANUARY 28, 1930. Class 35.

269,535. RADIOSPEAKERS. OPERADIO MANUFACTURING COMPANY, St. Charles, Ill.
Filed December 2, 1929. Serial No. 293,150. PUBLISHED JANUARY 14, 1930. Class 21.

269,536. BOTH FIXED AND VARIABLE RESISTANCES. COMPO MFG. CO., Chicago, Ill.
Filed December 2, 1929. Serial No. 293,131. PUBLISHED JANUARY 14, 1930. Class 21.

269,537. RADIO RECEIVING SETS AND KITS, PARTICULARLY SHORT-WAVE SETS AND KITS. PILOT RADIO & TUBE CORPORATION, Brooklyn, N. Y.
Filed November 29, 1929. Serial No. 293,067. PUBLISHED JANUARY 14, 1930. Class 21.

269,538. CANNED FRUITS, CANNED VEGETABLES. RIONA PRODUCTS CO. INC., McAllen, Tex.
Filed December 17, 1929. Serial No. 293,792. PUBLISHED JANUARY 28, 1930. Class 46.

269,539. CANNED FISH. S. ISENBERG, INC., New York, N. Y.
Filed December 11, 1929. Serial No. 293,582. PUBLISHED JANUARY 28, 1930. Class 46.

269,540. SPRAY POWDER MILK. TWIN CITY MILK PRODUCERS ASSOCIATION, St. Paul, Minn.
Filed November 9, 1929. Serial No. 293,357. PUBLISHED JANUARY 28, 1930. Class 46.

269,541. COMPOUNDED UNVULCANIZED RUBBER IN THE FORM OF SHEETS AND ROLLS FOR USE IN THE MANUFACTURE AND REPAIR OF RUBBER ARTICLES AND UNCURED SHEET RUBBER WITH VULCANIZED BACKING. THE FEDERAL RUBBER COMPANY, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass.
Filed August 23, 1929. Serial No. 288,907. PUBLISHED JANUARY 28, 1930. Class 1.

269,542. COMPOUNDED UNVULCANIZED RUBBER IN THE FORM OF SHEETS AND ROLLS FOR USE IN THE MANUFACTURE AND REPAIR OF RUBBER ARTICLES. UNCURED SHEET RUBBER WITH VULCANIZED BACKING. THE FEDERAL RUBBER COMPANY, Chicago, Ill.; Cudahy, Wis.; and Chicopee Falls, Mass.
Filed August 23, 1929. Serial No. 288,906. PUBLISHED JANUARY 28, 1930. Class 1.

269,543. BAKERY PRODUCTS—NAMELY, BREAD, BRAN BREAD, BUNS, COOKIES. LOWENBERG BAKERY, Ottumwa, Iowa.
Filed June 26, 1929. Serial No. 286,184. PUBLISHED OCTOBER 29, 1929. Class 46.

269,544. SOAPS. ROBERT M. FROEHLICH, doing business as Right-O Products Company, New York, N. Y.
Filed November 26, 1929. Serial No. 292,930. PUBLISHED JANUARY 28, 1930. Class 4.

269,545. CAST-IRON CASTINGS. ROBBINS & MYERS, INC., Springfield, Ohio.
Filed November 23, 1929. Serial No. 292,827. PUBLISHED JANUARY 14, 1930. Class 14.

269,546. SHAMPOO PREPARATION FOR THE TREATMENT OF LICE, FLEAS, AND EAR MITES ON ANIMALS AS WELL AS FOR CLEANING FURS. WILLIAM COOPER & NEPHEWS, INCORPORATED, Chicago, Ill.
Filed November 22, 1929. Serial No. 292,718. PUBLISHED JANUARY 28, 1930. Class 6.

269,547. CERTAIN LACQUER PRODUCTS. VALENTINE & COMPANY, New York, N. Y.
Filed November 21, 1929. Serial No. 292,691. PUBLISHED JANUARY 28, 1930. Class 16.

269,548. MEDICINE FOR TUBERCULOSIS, ANEURIA, SYPHILIS, BLOOD DISORDERS, AND THE INTESTINAL TRACT. THOMAS F. O'REILLY, Cincinnati, Ohio.
Filed November 21, 1929. Serial No. 292,682. PUBLISHED JANUARY 28, 1930. Class 6.

269,549. METAL ALLOYS. THE HAYNES STELLITE COMPANY, Kokomo, Ind.
Filed November 18, 1929. Serial No. 292,602. PUBLISHED JANUARY 28, 1930. Class 14.

269,550. COPPER AND BRASS INGOTS. SOUTH BEND SMELTING & REFINING CO., South Bend, Ind.
Filed November 18, 1929. Serial No. 292,555. PUBLISHED JANUARY 28, 1930. Class 14.

269,551. LIQUID FERTILIZERS. ALBERT NEMETH, Brooklyn, N. Y.
Filed November 18, 1929. Serial No. 292,544. PUBLISHED JANUARY 28, 1930. Class 10.

269,552. SOLVENT FOR CLEANING BATH FIXTURES AND ALL ENAMEL SURFACES. WESTERN CHEMICAL CO., Kansas City, Mo.
Filed November 16, 1929. Serial No. 292,513. PUBLISHED JANUARY 28, 1930. Class 4.

269,553. READY-MIXED PAINTS AND VARNISHES. GAMBLE STORES, INCORPORATED, Minneapolis, Minn.
Filed November 16, 1929. Serial No. 292,494. PUBLISHED JANUARY 28, 1930. Class 16.

269,554. MAGAZINES OR PERIODICALS. AMERICAN OPTICAL COMPANY, Southbridge, Mass.
Filed November 16, 1929. Serial No. 292,478. PUBLISHED JANUARY 21, 1930. Class 38.

269,555. IRON, STEEL, ALLOY STEEL, AND STEEL WIRE. NATIONAL STEEL COMPANY, Chicago, Ill.
Filed November 15, 1929. Serial No. 292,456. PUBLISHED JANUARY 21, 1930. Class 14.

269,556. FLOOR DRESSING. MASURY-YOUNG COMPANY, Charlestown, Mass.
Filed November 15, 1929. Serial No. 292,454. PUBLISHED JANUARY 21, 1930. Class 16.

269,557. METAL ALLOYS. THE HAYNES STELLITE COMPANY, Kokomo, Ind.
Filed November 15, 1929. Serial No. 292,450. PUBLISHED JANUARY 28, 1930. Class 14.

269,558. ARCHITECTURAL DRAWINGS, TRACINGS, AND PRINTS THEREOF. INDIANA LIMESTONE COMPANY, Bedford, Ind.
Filed November 13, 1929. Serial No. 292,360. PUBLISHED JANUARY 28, 1930. Class 38.

269,559. DENTURES. JOHN V. AMENTA, doing business as Master Dental Company, Chicago, Ill.
Filed November 13, 1929. Serial No. 292,350. PUBLISHED JANUARY 28, 1930. Class 44.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

269,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTALES CANNING CO., Portales, N. Mex. Filed Dec. 28, 1929. Serial No. 294,178.

PORTALES

For Canned Tomatoes.
Claims use since 1923.

269,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE AMERICAN MOLASSES CO. OF NORTH CAROLINA, Wilmington, N. C. Filed Nov. 1, 1929. Serial No. 291,861.

COVINGTON'S EXTRA FANCY

For Molasses.
Claims use since Jan. 1, 1919.

269,562. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. GREENBAUM TANNING COMPANY, Milwaukee, Wis., and Chicago, Ill. Filed June 12, 1929. Serial No. 285,457.

HAMPTON SIDES

For Leather.
Claims use since Jan. 3, 1929.

269,563. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LOGAN CO., Louisville, Ky. Filed Apr. 11, 1929. Serial No. 282,244.

LOC-KRIMP MESH

For Lock-Crimp-Mesh Grilles.
Claims use since Jan. 1, 1929.

269,564. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE P. M. FRANK DISINFECTING CO., New York, N. Y. Filed Apr. 5, 1929. Serial No. 281,906.

KLEER-PIPE

For Drainpipe Solvent and Pipe Cleaner for Removing Obstructions from Waste Pipes, Sinks, Closets, Drainpipes, and the Like.
Claims use since Feb. 6, 1929.

269,565. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE FREDERICK IRON & STEEL COMPANY, Frederick, Md. Filed Mar. 19, 1929. Serial No. 280,999.

RIDDELL

For Automatic Stokers.
Claims use since Feb. 1, 1929.

269,566. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) STANDARD FUEL ENGINEERING COMPANY, Detroit, Mich. Filed Mar. 16, 1929 Serial No. 280,861.

STANDARD

For Gas and Oil Fired Heat-Treating Furnaces.
Claims use since May 1, 1914.

269,567. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) KILLGLARE CORPORATION, Washington, D. C. Filed Feb. 27, 1929. Serial No. 280,026.

Neverglare

For Glare Shields for Automobile Headlights.
Claims use since Feb. 23, 1929.

269,568. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE E. DAVIDSON COMPANY, Indianapolis, Ind. Filed Feb. 27, 1929. Serial No. 279,993.

POSTERPLAK

For Portable Advertising Display Boards.
Claims use since Feb. 1, 1929.

269,569. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT A. BOICE, doing business as The Boice Medicine Co., Washington, D. C. Filed Feb. 25, 1929. Serial No. 279,828.

—DR. BOICE'S—
PRESCRIPTION TABLETS

For a Medicinal Preparation in the Form of Tablets for Constipation, Biliousness, Flatulence, and Gas in the Stomach.
Claims use since Jan. 1, 1925.

269,570. (CLASS 38. PRINTS AND PUBLICATIONS.) WILSON W. CROOK, doing business as Crook Advertising Agency, Dallas, Tex. Filed Feb. 28, 1929. Serial No. 279,785.

COMIK-ADS

For Comic Advertisements.
Claims use since Feb. 9, 1929.

269,571. (CLASS 2. RECEPTACLES.) EGG SAVER PACKAGE COMPANY, Bordentown, N. J. Filed Feb. 7, 1929. Serial No. 278,985.

EGG SAVER

For Cardboard Flats or Pads for Use in Egg Cases.
Claims use since Feb. 10, 1927.

269,572. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS RUSCONI, Fresno, Calif. Filed Dec. 27, 1928. Serial No. 277,257.

RUSCONI'S

No claim is made to the lining on the drawing, which indicates purple and blue.
For Fresh Grapes.
Claims use since Sept. 1, 1928.

269,573. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RUFUS M. DORSETT, Chicago, Ill. Filed Dec. 5, 1928. Serial No. 276,808.

Dorsetts

For Permanent-Hair-Waving Machines and Hair Curlers Used in Connection with Such Machines.
Claims use since Oct. 1, 1928.

269,574. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) UNIVERSAL PERMANENT WAVE MACHINE CO., Chicago, Ill. Filed July 30, 1928. Serial No. 270,860.

MODERN

For Apparatus for Permanently Waving Hair and for Accessories for Use with Such Apparatus Comprising Electrical Heaters, Hair-Waving Pads Used in the Process of Permanently Waving Hair, Curlers, Tubes, Flannel Strips, Permanent-Waving Machines, Clips, Scalp Protectors, and Bobbins.
Claims use since July 5, 1928.

269,575. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULIUS SCHMID, INC., New York, N. Y. Filed Nov. 2, 1927. Serial No. 256,989.

OXFORD

For Rubber Combs.
Claims use since Oct. 15, 1927.

269,576. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEY-MILLER COMPANY, Beaumont, Tex. Filed Feb. 11, 1930. Serial No. 295,901.

HEAVY DUTY LOGGING RATION

For Stock Feed.
Claims use since July 1, 1924.

LABELS

REGISTERED APRIL 8, 1930

37,312.—*Title:* FARM KING. For Cut Green Beans. THE ANTHONY WHOLESALE GROCERY COMPANY, Anthony, Kans. Published November 1, 1929.

37,313.—*Title:* ORINE FOR THE MOUTH. For Liquid Mouth Preparation. Dr. M. G. BERNHEIM, doing business as Orine Manufacturing Co., Chicago, Ill. Published August 25, 1929.

37,314.—*Title:* BURTON'S IMPROVED STANDARD WEIGHT. For Irish Poplin. BURTON BROTHERS & Co. INC., New York, N. Y. Published February 1, 1930.

37,315.—*Title:* BURTON'S FINER LIGHTER WEIGHT. For Irish Poplin. BURTON BROTHERS & Co. INC., New York, N. Y. Published February 1, 1930.

37,316.—*Title:* DO 645—BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published January 6, 1930.

37,317.—*Title:* DO 644—BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published January 6, 1930.

37,318.—*Title:* DO 649—BUTTER. For Butter. WILLIAM DOANE, St. Louis, Mo. Published January 6, 1930.

37,319.—*Title:* OINTMENT NO. 29 NESRIN. For Medicinal Preparation. THE DRUG PRODUCTS CO. INC., Long Island City, N. Y. Published March 1, 1930.

37,320.—*Title:* AIR MAIL. For Candy. GREEN BROS. Co., Springfield, Mass. Published February 15, 1930.

37,321.—*Title:* KAMPFS HERBAL TONIC. For Herbal Tonic. WILLIAM E. KAMPFMUELLER, Cincinnati, Ohio. Published January 22, 1930.

37,322.—*Title:* PROTEIN S. M. A. For Food Product for Infants. THE LABORATORY PRODUCTS COMPANY, Cleveland, Ohio. Published December 1, 1929.

37,323.—*Title:* MEDAL OF HONOR. For Cigars. MEDAL OF HONOR CIGAR CO., INC., New York, N. Y. Published January 15, 1930.

37,324.—*Title:* LEMO-RINS. For Shampoo Treatment. NASSOUR BROS., Los Angeles, Calif. Published January 1, 1930.

37,325.—*Title:* PEXIDE POWDERED SOAP. For Powdered Soaps. PECK'S PRODUCTS CO., St. Louis, Mo. Published January 15, 1930.

37,326.—*Title:* RADIO. For Soap. THE R & G SOAP Co., St. Louis, Mo. Published November 25, 1929.

37,327.—*Title:* UTAH SWEETHEART CELERY. For Celery. SALT LAKE COUNTY CELERY GROWERS' ASSOCIATION, Salt Lake City, Utah. Published September 10, 1929.

37,328.—*Title:* VOSINE. For a Mouth Wash and Gargle. SAMPSON & BURNHAM COMPANY, Lynn, Mass. Published December 14, 1929.

PRINTS

REGISTERED APRIL 8, 1930

12,469.—*Title:* JADE, OLD AS THE HILLS AND GREEN AS THE HILLS, WAS THE LUCKY STONE OF THE ANCIENTS . . . For Jewelry and Silverware. BLACK, STARR & FROST-GORHAM, INC., New York, N. Y. Published March 1, 1930.

12,470.—*Title:* FANCY VENEERS. For Veneers. RUSSELL FORTUNE, INCORPORATED, Indianapolis, Ind. Published February 1, 1930.

12,471.—*Title:* ROYAL HAWAIIAN KOA. For Veneers. RUSSELL FORTUNE, INCORPORATED, Indianapolis, Ind. Published January 1, 1930.

12,472.—*Title:* FRENCH MAID, VACUUM PACKED COFFEE. For Coffee. FRENCH MAID COCOLAT COMPANY, INC., New York, N. Y. Published February 24, 1930.

12,473.—*Title:* SO GOOD IN THEMSELVES . . . SO ATTRACTIVE WHEN SERVED THIS NEW WAY. For Baked Beans. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published March 1, 1930.

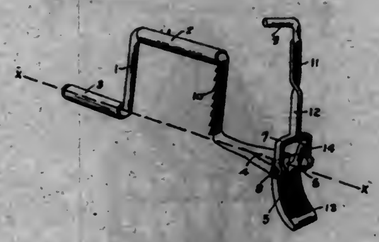
12,474.—*Title:* STYLE TWINS. For Hats. TRULY WARNER CO. INC., New York, N. Y. Published September 1, 1928.

12,475.—*Title:* OMEGA. For Watches. J. R. WOOD & SONS, New York, N. Y. Published December 31, 1928.

REISSUES

APRIL 8, 1930

17,636. WIRE-TWISTING DEVICE. PETER BIGHETTI, San Francisco, Calif. Filed Nov. 18, 1929. Serial No. 406,968. Original No. 1,698,689, dated Jan. 8, 1929. Serial No. 257,849, filed Feb. 29, 1928. 9 Claims. (Cl. 140—118.)



1. A mechanic's tool comprising a carpenter's brace frame with a shank at the forward end thereof, a wire clamping jaw operatively mounted on said shank, an operating handle extending from said jaw, and ratchet means on said brace frame adapted to engage said handle to hold said jaw in clamped position, and clamping means on said shank cooperating with said jaw adapted to kink said wire in clamping the same.

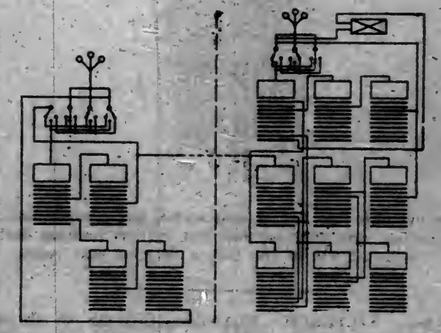
17,637. EMERGENCY HEATER. WILLIAM ALLEN BROWN, Philadelphia, Pa. Filed Dec. 15, 1926. Serial No. 326,392. Original No. 1,620,432, dated Mar. 8, 1927, Serial No. 45,536, filed July 23, 1925. 10 Claims. (Cl. 219—45.)



7. In a combined convection heater and lighting lamp, a support, a vertically disposed heating unit carried by said support, a flue surrounding and assembled in spaced relation with said heating unit to directly heat the air substantially throughout the length of said flue, and an electric light mounted in proximity to said flue, said unit and light being so assembled and controlled as to give heat or light or both, simultaneously or independently.

17,638. AUTOMATIC TELEPHONE SYSTEM. HERBERT M. FRIENDLY, Chicago, Ill. Filed Aug. 24, 1927. Serial No. 215,247. Original application filed Feb. 17, 1921, Serial No. 445,761. Renewed Nov. 8, 1926. Original No. 1,627,844, dated May 10, 1927. 121 Claims. (Cl. 179—27.)

1. In a telephone system, a calling station, means under the control of said calling station for extending a talking connection to a called station, means for then extending the connection to include a second called station, and



means whereby either called station can thereafter disconnect the other from said connection with the calling station.

17,639. FLEXIBLE TRANSMITTING DEVICE. GEORGE P. LUCKEY, Lancaster, Pa., assignor, by mesne assignments, to American Cable Company, Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 7, 1929. Serial No. 345,121. Original No. 1,427,829, dated Sept. 5, 1922, Serial No. 528,554, filed Jan. 11, 1922. 11 Claims. (Cl. 74—39.)



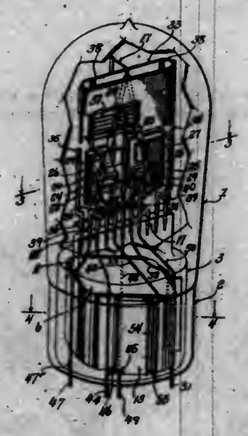
1. In a flexible transmitting device, a casing comprising longitudinally extending members of a material adapted to offer substantial resistance to compression in the direction of the axes of said members, and means constraining said members against relative displacement other than relative longitudinal movement when the casing is bent.

17,640. ELECTRON-DISCHARGE DEVICE. ARISTOTE MAVROGENIS, Milwaukee, Wis. Filed June 7, 1929. Serial No. 369,252. Original No. 1,638,499, dated Aug. 9, 1927, Serial No. 78,876, filed Jan. 2, 1926. 27 Claims. (Cl. 250—27.5.)

1. A unitary electron discharge device including an evacuated vessel having a relatively large hollow neck,

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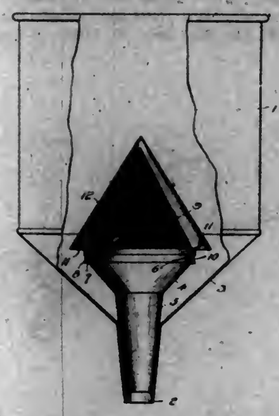
said device including an audion, a thermionic rectifier, and a thermionic current limiting device all mounted within



the evacuated portion of said vessel, and a condenser cooperating with said rectifier and current limiting device and mounted within the hollow neck of said vessel.

17,641. FILTERING FUNNEL. CHARLES R. OWENS, Washington, D. C. Filed Feb. 14, 1930. Serial No. 428,524. Original No. 1,739,559, dated Dec. 17, 1929, Serial No. 342,228, filed Feb. 23, 1929. 1 Claim. (Cl. 210—157.)

A filtering element for funnels of the type including a body having an outlet, and an upwardly flared section immediate the outlet and body, said filtering element including a spout having a sealing cooperation with said outlet of the funnel, an upwardly flaring portion extending from the upper end of the spout, said flaring portion extending in spaced parallel relation to the flared section of the funnel to thereby provide a relatively deep downwardly and inwardly inclining sediment trap open only at the upper end, a conical screen carried by the flaring portion of the filtering element, and a hood of



conical form supported to overlie and cover the screen other than at the lower end of the hood, the plane of the exterior of the hood being substantially at right angles to the flaring section of the funnel whereby the incoming liquid is directly intercepted by the flaring section of the funnel and directed therefrom to and beneath the hood and through the screen without disturbing the material in the comparatively deep sediment trap.

DESIGNS

APRIL 8, 1930

80,872. GRILLE. GEORGE W. ACKERMAN, New York, N. Y. Filed Nov. 16, 1929. Serial No. 33,475. Term of patent 14 years.



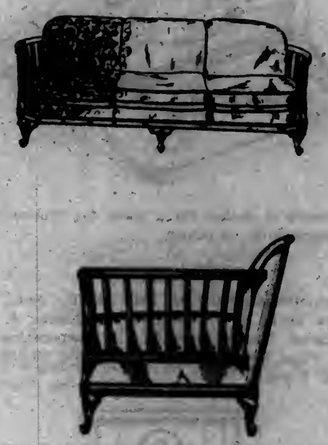
The ornamental design for a grille substantially as shown.

80,873. COMBINED AIRPLANE AND THERMOMETER. FRANK ALESSI, Brooklyn, N. Y., assignor to Vincenzo Nava, Brooklyn, N. Y. Filed Jan. 8, 1930. Serial No. 34,014. Term of patent 14 years.



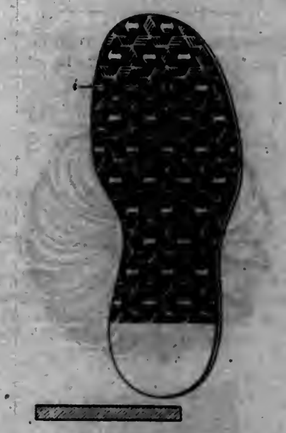
The ornamental design for a combined airplane and thermometer, substantially as shown.

80,874. DAVENPORT OR LIKE ARTICLE. OTTO ANDREAS ANDERSON, Chicago, Ill., assignor to Zangerle & Peterson Company, a Corporation of Illinois. Filed Dec. 4, 1929. Serial No. 33,645. Term of patent 3½ years.



The ornamental design for a davenport or like article, as shown and described.

80,875. SHOE SOLE. ALLAN S. BANNISTER, Providence, R. I., assignor to Revere Rubber Company, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 3, 1929. Serial No. 33,628. Term of patent 14 years.



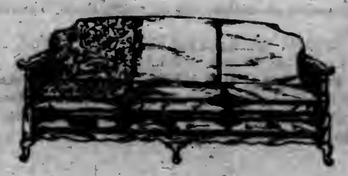
The ornamental design for a shoe sole as shown.

80,876. SHOE SOLE. ALLAN S. BANNISTER, Providence, R. I., assignor to Revere Rubber Company, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 3, 1929. Serial No. 33,629. Term of patent 14 years.



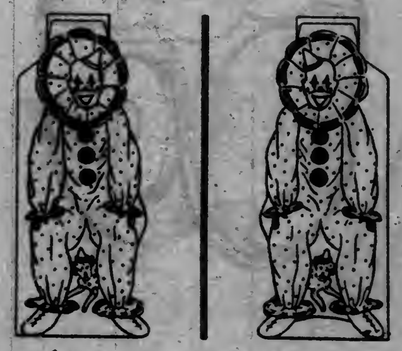
The ornamental design for a shoe sole as shown.

80,877. DAVENPORT OR LIKE ARTICLE. WILLIAM FREDERICK CHRISTIANSEN, Chicago, Ill., assignor to The Zangerle and Peterson Company, a Corporation of Illinois. Filed Dec. 16, 1929. Serial No. 33,801. Term of patent 3½ years.



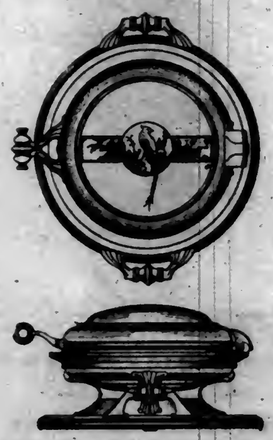
The ornamental design for a davenport or like article, as shown and described.

80,878. TOY WHISTLING CLOWN. ARCHIBALD D. COWAN, Fulton, Ill., assignor to Patent Novelty Company, Fulton, Ill., a Corporation of Illinois. Filed Jan. 13, 1930. Serial No. 34,123. Term of patent 3½ years.



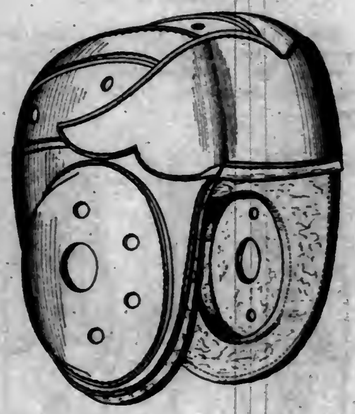
The ornamental design for a toy whistling clown, as shown.

80,879. WAFFLE IRON. FREDERICK J. CROSS and HOWARD H. SCHOTT, Rochester, N. Y., assignors to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed July 22, 1929. Serial No. 32,166. Term of patent 3½ years.



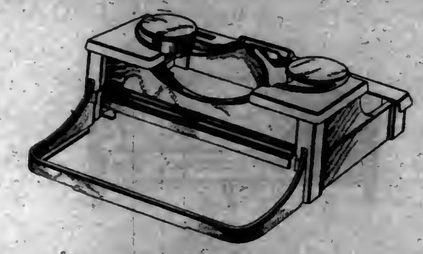
The ornamental design for a waffle iron, substantially as shown.

80,880. FOOTBALL HELMET. ARTHUR DICKMAN, Cincinnati, Ohio, assignor to The P. Goldsmith Sons Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 29, 1929. Serial No. 33,582. Term of patent 7 years.



The ornamental design for a football helmet substantially as shown.

80,881. A MASK FOR TYPEWRITING MACHINES. BERNARD J. DOWD, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 11, 1930. Serial No. 34,098. Term of patent 14 years.



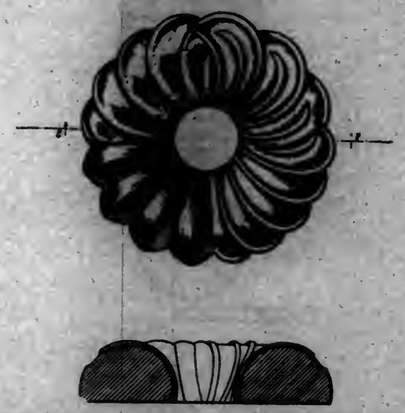
The ornamental design for a mask for typewriting machines, substantially as shown.

80,882. RADIOCABINET OR THE LIKE. NOEL S. DUNBAR, New York, N. Y., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Dec. 29, 1928. Serial No. 29,454. Term of patent 7 years.



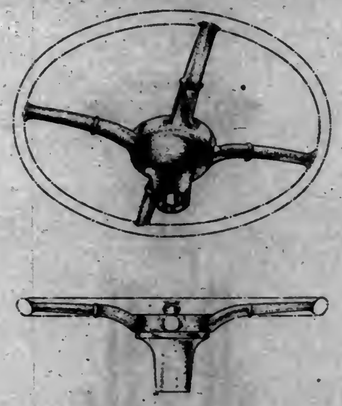
The ornamental design for a radiocabinet or the like, as shown.

80,883. CONFECTION. MAURICE DUSHEK, Chicago, Ill. Filed Aug. 29, 1929. Serial No. 32,618. Term of patent 7 years.



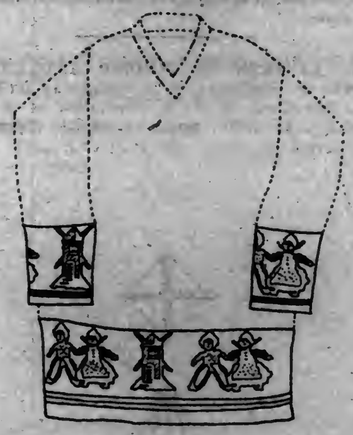
The ornamental design for a confection as shown.

80,884. HUB FOR STEERING WHEEL. HARLEY J. EARL, RALPH W. PEW, and JOHN J. TJAARDA, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 8, 1929. Serial No. 31,972. Term of patent 14 years.



The ornamental design for a hub for steering wheel, substantially as shown.

80,885. SWEATER OR ARTICLE OF SIMILAR NATURE. AUGUST EGERER, Great Neck, N. Y., assignor to S. Augstein & Co., New York, N. Y. Filed Dec. 20, 1929. Serial No. 33,871. Term of patent 7 years.



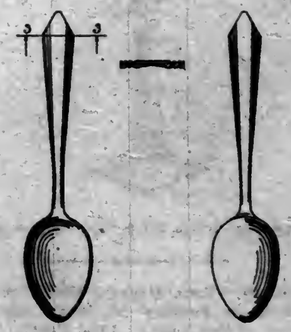
The ornamental design for a sweater, or article of similar nature, as shown.

80,886. RADIOPANEL. HAROLD F. ELLIOTT, Camden, N. J., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Sept. 20, 1929. Serial No. 32,807. Term of patent 14 years.



The ornamental design for a radiopanel as shown.

80,887. SPOON OR ANALOGOUS ARTICLE. ALFRED J. FLAUDER, Bridgeport, Conn., assignor to Weidlich-Sterling Spoon Co., Bridgeport, Conn., a Partnership consisting of Louis Weidlich, Frank B. Weidlich, and William Weidlich. Filed Nov. 20, 1929. Serial No. 33,504. Term of patent 7 years.



The ornamental design for a spoon or analogous article substantially as shown.

80,888. INSECT REPELLENT. JOHN GLOVER, Chicago, Ill. Filed July 18, 1929. Serial No. 32,107. Term of patent 14 years.



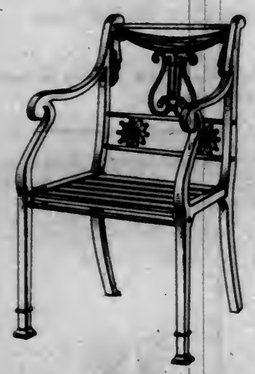
The ornamental design for an insect repellent, substantially as shown.

80,889. CIGAR LIGHTER. SAMUEL E. GUINN, Johnson City, Tenn. Filed Apr. 12, 1929. Serial No. 30,868. Term of patent 3½ years.



The ornamental design for a cigar lighter, as shown.

80,890. CHAIR. EMIL HAUSER, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J., a Corporation of New Jersey. Filed Feb. 6, 1930. Serial No. 34,421. Term of patent 7 years.



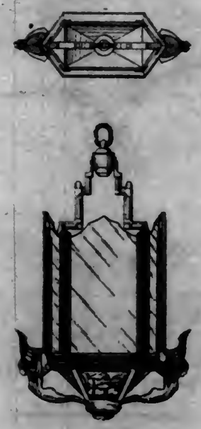
The ornamental design for a chair, as shown.

80,891. SETTEE OR SIMILAR ARTICLE. EMIL HAUSER, New York, N. Y., assignor to Marcy Foundry Co., Perth Amboy, N. J., a Corporation of New Jersey. Filed Feb. 6, 1930. Serial No. 34,422. Term of patent 7 years.



The ornamental design for a settee or similar article, as shown.

80,892. CHANDELIER OR SIMILAR ARTICLE. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1930. Serial No. 34,220. Term of patent 3½ years.



The ornamental design for a chandelier or similar article as shown.

80,893. LANTERN OR SIMILAR ARTICLE. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1930. Serial No. 34,221. Term of patent 3½ years.



The ornamental design for a lantern or similar article as shown.

80,894. LIGHTING FIXTURE OR SIMILAR ARTICLE. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1930. Serial No. 34,223. Term of patent 3½ years.



The ornamental design for a lighting fixture or similar article as shown.

80,895. GEM SETTING. HARRY G. KAUFMAN, New York, N. Y. Filed Nov. 11, 1929. Serial No. 33,401. Term of patent 7 years.



The ornamental design for a gem setting as shown.

80,896. GEM SETTING. HARRY G. KAUFMAN, New York, N. Y. Filed Nov. 11, 1929. Serial No. 33,402. Term of patent 7 years.



The ornamental design for a gem setting as shown.

80,897. GEM SETTING. HARRY G. KAUFMAN, New York, N. Y. Filed Nov. 11, 1929. Serial No. 33,403. Term of patent 7 years.



The ornamental design for a gem setting as shown.

80,898. GEM SETTING. HARRY G. KAUFMAN, New York, N. Y. Filed Nov. 11, 1929. Serial No. 33,404. Term of patent 7 years.



The ornamental design for a gem setting as shown.

80,899. COAT. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 24, 1930. Serial No. 34,273. Term of patent 3½ years.



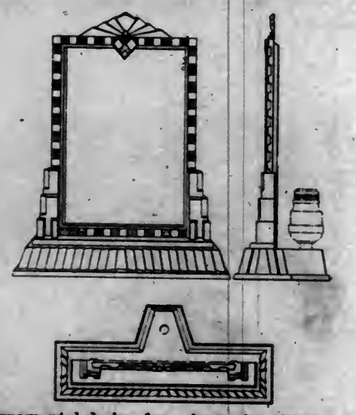
The ornamental design for a coat substantially as shown and described.

80,900. COAT. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 1, 1930. Serial No. 34,373. Term of patent 3½ years.



The ornamental design for a coat substantially as shown and described.

80,901. FRAME FOR PICTURES, MIRRORS, AND THE LIKE. JACK MANOIL, Brooklyn, N. Y. Filed Jan. 18, 1930. Serial No. 34,184. Term of patent 3½ years.



The ornamental design for a frame for pictures, mirrors and the like as shown.

80,902. BOTTLE. GEORGE N. MAS, Washington, D. C., assignor, by mesne assignments, to Jesse T. Dowling and G. Ridgely Sappington, trustees. Filed May 2, 1927. Serial No. 21,815. Term of patent 14 years.



The ornamental design for a bottle, as shown.

80,903. LAVATORY. JOSEPH R. MAYHEW, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed Jan. 14, 1930. Serial No. 34,124. Term of patent 7 years.



The ornamental design for a lavatory, substantially as shown.

80,904. TOY. ERNEST S. MILES, Media, Pa. Filed Aug. 10, 1929. Serial No. 32,374. Term of patent 3½ years.



The ornamental design for a toy, as shown.

80,905. SHOE. CHARLES MORALI, New York, N. Y., assignor to Delman, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 24, 1929. Serial No. 33,911. Term of patent 3½ years.



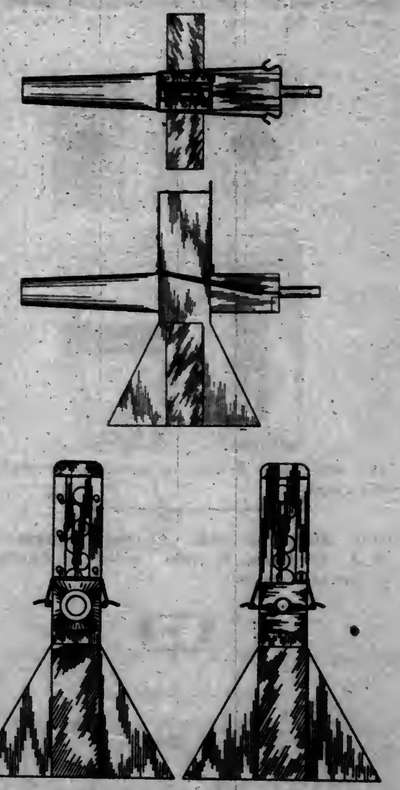
The ornamental design for a shoe as shown.

80,906. TICKING. BENJAMIN S. NASH, Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed July 24, 1929. Serial No. 32,176. Term of patent 7 years.



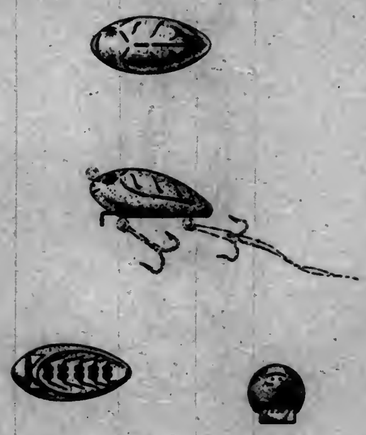
The ornamental design for ticking substantially as shown.

80,907. TOY MACHINE GUN. MERRILL R. PATTISON, Seattle, Wash. Filed Dec. 26, 1929. Serial No. 33,920. Term of patent 7 years.



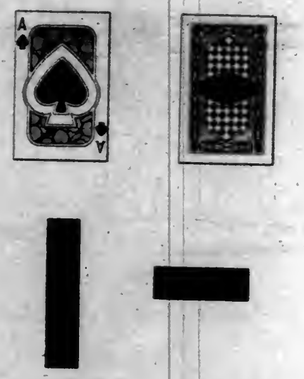
The ornamental design for a toy machine gun, as shown.

80,908. ARTIFICIAL BAIT. UE C. PEMBERTON, Seffner, and JOSEPH B. JOHNSON, Tampa, Fla. Filed Nov. 4, 1929. Serial No. 33,336. Term of patent 7 years.



The ornamental design for an artificial bait as shown.

80,909. CARTON OR SIMILAR CONTAINER. FREDERICK W. PETERSON, Brooklyn, N. Y., assignor to Horton Sweets Co. Inc., Ridgefield, N. J., a Corporation of New York. Filed Oct. 29, 1928. Serial No. 28,085. Term of patent 3½ years.



The ornamental design for a carton or similar container as shown.

80,910. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Jan. 31, 1930. Serial No. 34,363. Term of patent 7 years.



The ornamental design for a shoe buckle, as shown.

80,911. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Dec. 4, 1929. Serial No. 33,636. Term of patent 3½ years.



The ornamental design for a lighting fixture, or article of similar nature, as shown.

80,912. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Dec. 4, 1929. Serial No. 33,637. Term of patent 3½ years.



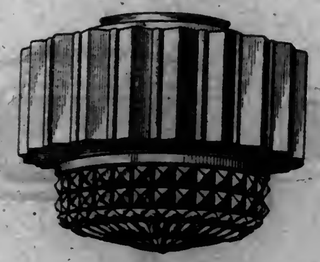
The ornamental design for a lighting fixture or article of similar nature, as shown.

80,913. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Dec. 12, 1929. Serial No. 33,765. Term of patent 3½ years.



The ornamental design for a lighting fixture or article of similar nature, as shown.

80,914. GLOBE FOR LIGHTING FIXTURES. ISIDOR M. SCHAFFER, Brooklyn, N. Y., assignor to Max Schaffer Co., Inc., a Corporation of New York. Filed Feb. 6, 1930. Serial No. 34,441. Term of patent 3½ years.



The ornamental design for a globe for lighting fixtures substantially as shown.

80,915. REAR CORNER LIGHT FOR AN AUTOMOTIVE VEHICLE. WILLIAM SCHNELL and WILFRED H. HOLLINDALE, Detroit, Mich., assignors to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 7, 1929. Serial No. 33,368. Term of patent 7 years.



The ornamental design for a rear corner light for an automotive vehicle substantially as shown.

80,916. DECORATIVE TOY POODLE DOG. ANNA SOFF, Brooklyn, N. Y. Filed Mar. 26, 1929. Serial No. 30,626. Term of patent 3½ years.



The ornamental design for a decorative toy poodle dog, as shown.

80,917. JAR OR SIMILAR CONTAINER. WALTER D. TEAGUE, Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind., a Corporation of Indiana. Filed Jan. 27, 1930. Serial No. 34,312. Term of patent 14 years.



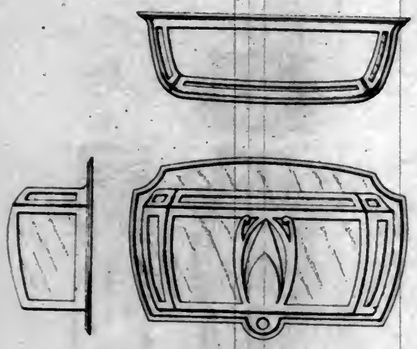
The ornamental design for a jar or similar container as shown.

80,918. JAR OR SIMILAR CONTAINER. WALTER D. TEAGUE, Forest Hills, N. Y., assignor to Turner Glass Corporation, Terre Haute, Ind., a Corporation of Indiana. Filed Jan. 27, 1930. Serial No. 34,313. Term of patent 14 years.



The ornamental design for a jar or similar container as shown.

80,919. CONTAINER FOR USE IN AUTOMOBILE INTERIOR FITTING OR SIMILAR ARTICLE. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 34,037. Term of patent 7 years.



The ornamental design for a container for use in automobile interior fitting or similar article as shown.

80,920. CONTAINER FOR USE IN AUTOMOBILE INTERIOR FITTING OR SIMILAR ARTICLE. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 34,038. Term of patent 7 years.



The ornamental design for a container for use in automobile interior fitting or similar article as shown.

80,921. CONTAINER FOR USE IN AUTOMOBILE INTERIOR FITTING OR SIMILAR ARTICLE. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 34,039. Term of patent 7 years.



The ornamental design for a container for use in automobile interior fitting or similar article as shown.

80,922. CONTAINER FOR USE IN AUTOMOBILE INTERIOR FITTING OR SIMILAR ARTICLE. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 34,040. Term of patent 7 years.



The ornamental design for a container for use in automobile interior fitting or similar article as shown.

80,923. CONTAINER FOR USE IN AUTOMOBILE INTERIOR FITTING OR SIMILAR ARTICLE. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 34,041. Term of patent 7 years.



The ornamental design for a container for use in automobile interior fitting or similar article as shown.

80,924. CONTAINER FOR USE IN AUTOMOBILE INTERIOR FITTING OR SIMILAR ARTICLE. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Jan. 7, 1930. Serial No. 34,042. Term of patent 7 years.



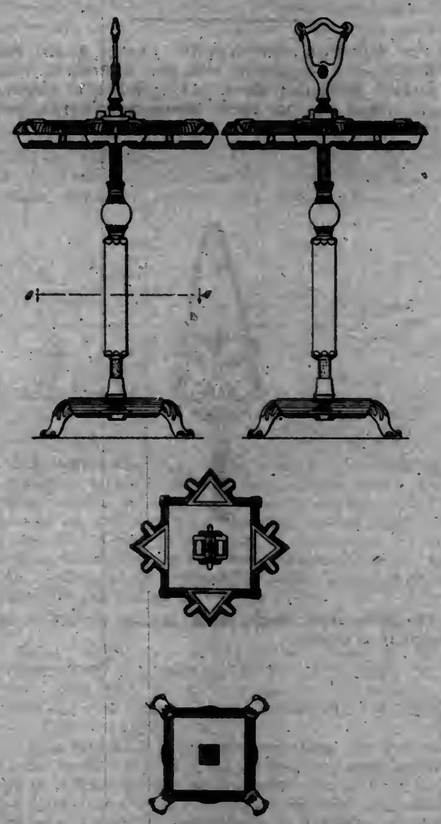
The ornamental design for a container for use in automobile interior fitting or similar article, as shown.

80,925. SMOKING STAND OR SIMILAR ARTICLE. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 20, 1930. Serial No. 34,195. Term of patent 7 years.



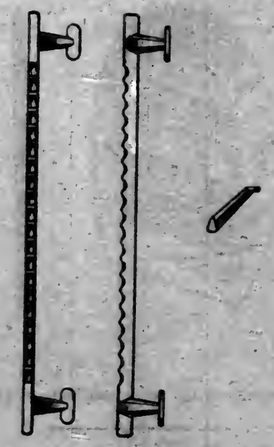
The ornamental design for a smoking stand or similar article, substantially as shown.

80,926. SMOKER'S STAND. CHAUNCEY E. WALTMAN, Chicago, Ill., assignor to I. Teger, doing business as Imperial Lamp Mfg. Co., Chicago, Ill. Filed Jan. 22, 1930. Serial No. 34,217. Term of patent 3½ years.



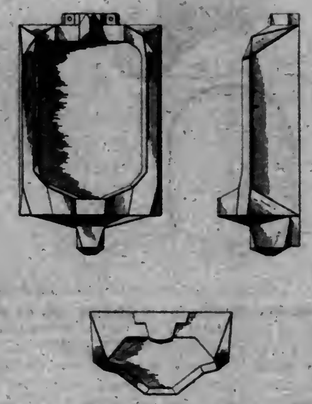
The ornamental design for a smoker's stand as shown.

80,927. GRASP BAR. MAXIMILIAN STANISLAW WEBER, Chicago, Ill. Filed May 15, 1929. Serial No. 31,240. Term of patent 14 years.



The ornamental design for a grasp bar as shown.

80,928. URINAL. PERRY COKE SMITH, Bronxville, N. Y., assignor to The Trenton Potteries Company, Trenton, N. J., a Corporation of New Jersey. Filed Dec. 2, 1929. Serial No. 33,609. Term of patent 14 years.



The ornamental design for a urinal, as shown.

80,929. SHOE SOLE. CECIL C. TUCKER, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed June 26, 1929. Serial No. 31,835. Term of patent 7 years.



The ornamental design for a shoe sole as shown.

80,930. BATHING CAP. HARRY A. BAUMAN, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 4, 1930. Serial No. 34,400. Term of patent 14 years.



The ornamental design for a bathing cap as shown.

80,931. RADIOCABINET. FRANK C. BURTON, Chicago, Ill., assignor to Grisby-Grunow Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1929. Serial No. 32,888. Term of patent 7 years.



The ornamental design for a radio cabinet as shown.

80,932. TAG FOR CONTAINERS. LEON A. DANCO, Fairfield, Conn., assignor to McKesson & Robbins, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 12, 1929. Serial No. 33,019. Term of patent 14 years.

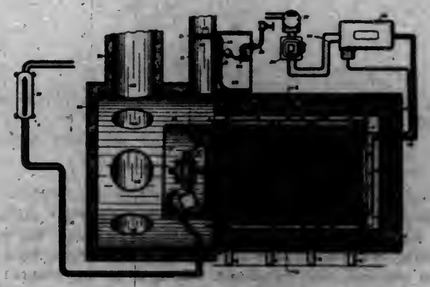


The ornamental design for a tag for containers substantially as shown.

PATENTS

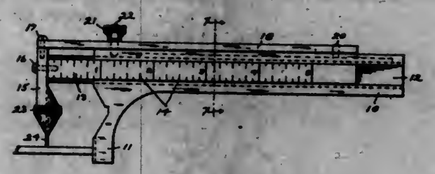
GRANTED APRIL 8, 1930

1,753,190. AUTOMATIC ELECTRIC-HEATING APPARATUS. FRANK W. ANDREWS, Fort Wayne, Ind. Filed Mar. 18, 1929. Serial No. 347,938. 6 Claims. (Cl. 219—39.)



1. In an apparatus for generating and transferring heat the combination of a fluid containing receptacle having a central elongated passage therethrough, a heat-absorbing fluid in said receptacle, means for heating said heat-absorbing fluid, a plurality of tubes extending across said central passage and having open communication with said fluid in said receptacle, means for passing a heat-absorbing fluid through said passage in said receptacle, a means for conducting said heat-absorbing fluid thus passed to a place to be heated.

1,753,191. COMBINATION RULE GAUGE. THOMAS L. B. ARMSTRONG, Poughkeepsie, N. Y. Filed Dec. 15, 1928. Serial No. 326,366. 2 Claims. (Cl. 33—42.)



1. A combination rule gauge, comprising a body portion formed with a headed end and provided with a longitudinal groove in the body thereof, an arm slidably mounted in said groove, a marking member detachably secured to the end of said arm, a rod secured to said marking member in a detachable manner and to said body portion in an adjustable manner, and means for locking the same in an adjusted position.

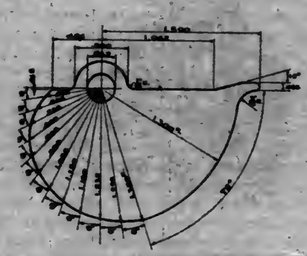
1,753,192. HEATING APPARATUS. JOHN E. BELL, Brooklyn, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed Dec. 19, 1922. Serial No. 607,781. 6 Claims. (Cl. 122—481.)

1. In a furnace housing wall comprising a row of side by side brickwork pillars spaced apart to form vertical slots in a lower portion of said wall open at their inner edge to the interior of the furnace chamber, said pillars carrying a part of the weight of the housing wall above said pillars, superheater elements comprising vertically disposed straight elongated tube portions arranged one in each of said slots, each of said tube portions being encased in metallic sections which unite to substantially fill the width of the slots, a metal bar at the rear of



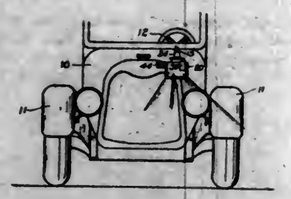
each slot comprising a portion closing the outer edge of the slot, connections between the casing elements and the bars, and external casing providing an enclosed space between said bar portions and the casing, and a packing of refractory material in said space.

1,753,193. CONDENSER. MORRIS H. BENNETT, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 23, 1926. Serial No. 143,573. 4 Claims. (Cl. 175—41.5.)



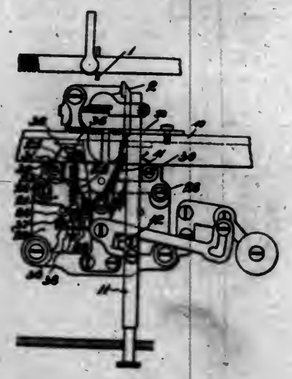
1. A variable electrical condenser having stator plates and rotor plates arranged to cooperate with the stator plates, said rotor plates each having its peripheral edge formed to a compound curve such as to give the condenser substantially a straight line frequency characteristic over one part of the angular movement of the rotor where the capacities are small and to give said condenser a characteristic according to some other law over another part of its angular movement, where the capacities are large, said compound curve forming a plate area substantially equal to the area formed by the equivalent straight line frequency curve for the angular and the capacity ranges of the condenser.

1,753,194. STEERING RANGE FOR AUTOMOBILES. CHARLES W. ANDERSON, Milan, Ohio. Filed Mar. 22, 1929. Serial No. 349,065. 2 Claims. (Cl. 240—7.1.)



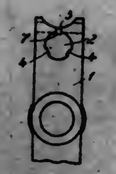
1. In combination, a motor vehicle, having a hood and a steering wheel, a lamp casing mounted adjacent the forward and upper part of the hood and substantially in alignment with the center of the steering wheel, said casing having a reflector therein, a lamp positioned within the casing, a reflector having an opening directly above the lamp, and said casing having a hollow extension projecting upwardly therefrom, and having an opening at the top thereof whereby light may be emitted vertically from said extension, a lense carried by the casing at the forward end of said reflector, and a shield carried by the casing outside the lens and acting to direct some of the rays of light downwardly and across the front of the hood.

1,753,195. SPEED-CONTROLLING MEANS FOR TYPEWRITER CARRIAGES. ERNEST WILLIAM BACHE and JOHN GRICE, West Bromwich, England, assignors to George Salter and Company Limited, West Bromwich, England. Filed Apr. 20, 1928, Serial No. 271,604, and in Great Britain June 21, 1927. 4 Claims. (Cl. 197—64.)



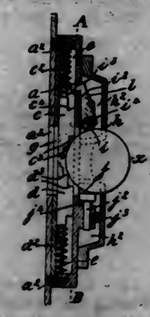
1. In a typewriting machine, the combination with a spring-driven paper-carriage, of a vertical shaft geared to the said paper-carriage, an escapement wheel, a sleeve slidably keyed to the shaft, a clutch member on the sleeve adapted to connect the paper-carriage to the escapement wheel when the sleeve is lowered, a second clutch member on the sleeve, a gear-wheel loose on the said shaft but adapted to be connected thereto by the second clutch member only when the sleeve is raised to disconnect the paper-carriage from the escapement wheel, a worm-wheel in driven connection with the said gear-wheel on the shaft, and a speed-controlling wormed shaft meshing with and adapted to be rotated by the said worm-wheel.

1,753,196. INTERNAL-COMBUSTION ENGINE. ERNST BECKER, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Apr. 17, 1928, Serial No. 270,694, and in Germany Apr. 27, 1927. 4 Claims. (Cl. 74—38.)



4. A divided crank-shaft having at least at one end of its crank-pin a detachable connection with the pertaining crank-arm, said connection comprising a boss at said pin end, said crank-arm having a boring adapted to receive said boss and being split at its end in axial direction of said boring, said boring having two axially directed keys protruding from its periphery and being integral with the crank-arm, said keys being spaced apart substantially 120° and being symmetrically disposed opposite the split portion of the crank-arm, said boss having two corresponding key ways adapted to engage said keys, and means for clamping the split arm portion together.

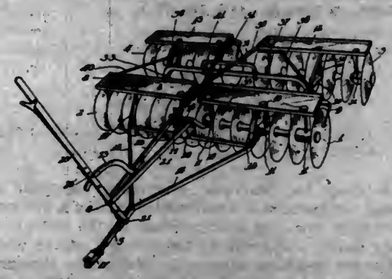
1,753,197. COIN-IN-THE-SLOT MACHINE. WILLIAM HENRY BEDDARD, Small Heath, England. Filed Apr. 3, 1928, Serial No. 266,931, and in Great Britain Apr. 13, 1927. 7 Claims. (Cl. 194—102.)



1. In a coin-in-the-slot machine, the combination with a coin entrance proper and movable pieces normally covering said entrance proper and slidable to open the entrance by the edge pressure of the coin thereagainst, of diameter testing devices arranged in front of said pieces and associated therewith to allow only the correct diameter coin to pass.

1,753,198. DISK HARROW. JOSEPH E. BODA, Moline, Ill., assignor, by mesne assignments to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a Corporation of Delaware. Filed Jan. 22, 1928. Serial No. 614,181. 13 Claims. (Cl. 55—83.)

1. A frameless tandem disk harrow having right and left front gangs, right and left rear gangs, draft connections for the front gangs, means for angling the front gangs, a pivotal draft connection between the right gangs, a pivotal draft connection between the left gangs, a spac-



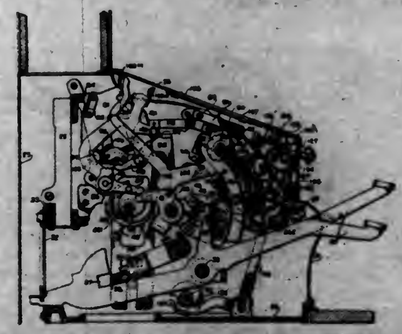
ing bar between said draft connections, an angling connection between the right gangs, and a angling connection between the left gangs.

1,753,199. FUELING SYSTEM. THEODORE BOSSARD, Salt Lake City, Utah, assignor to Bossard Products Company, Inc., a Corporation of Utah. Filed Apr. 16, 1928. Serial No. 270,231. 1 Claim. (Cl. 261—72.)



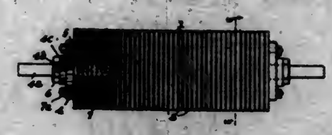
In a fueling system comprising a float chamber, in which a float controls the level of the liquid therein, mounted with the lower end thereof below the level of the bottom of the fuel supply tank; screens made of woven metal, carried in said float chamber with one portion thereof submerged in fuel at all times; pipes connecting said screens with a carburetion device one of which pipes is of smaller diameter to be used as an idling pipe; and another pipe completely surrounding the first mentioned pipes carrying preheated air over said pipes and discharging it within the float chamber where it is used to mix with the gas vapors and carried through the first mentioned pipes to the carburetion device and thence to the engine.

1,753,200. CASH REGISTER. RAYMOND B. RICH, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed Aug. 27, 1924. Serial No. 734,498. 16 Claims. (Cl. 235—130.)



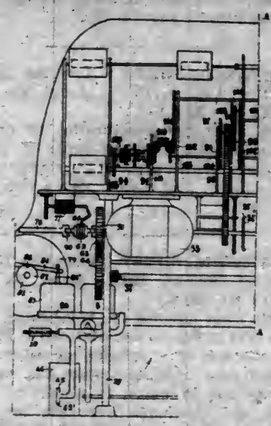
1. In a cash register, the combination with a plurality of printing totalisers, a printing mechanism common to both printing totalisers for printing the totals therefrom, means under the control of a lock for printing from one totalizer and a supplemental lock acting jointly with the first mentioned lock for controlling the printing from the remaining totaliser.

1,753,201. FABRIC-RUBBING ROLLER. PAUL EDLICH, Delawanna, N. J. Filed Mar. 29, 1928. Serial No. 265,618. 9 Claims. (Cl. 26—27.)



1. A fabric rubbing roller comprising a core and a rubbing body consisting of a series of leaves penetrated by and flexible with respect to the core and held to rotate therewith without compression of the series lengthwise of the axis of the roller.

1,753,202. WEIGHING AND RECORDING MACHINE. JULES GOETZMANN, Paris, France. Filed Apr. 30, 1926. Serial No. 105,682, and in France May 11, 1925. 11 Claims. (Cl. 265—7.)



1. An automatic balance for indicating and recording the weight, the unit price and the total price of goods placed on the scale of the balance, as well as for recording the number of weighings and indicating the amount of takings obtained within a definite time, said balance comprising a beam pivoted intermediate its ends, one of the arms of said beam being arranged to support the goods to be weighed and the other arm being provided with a weight pan for supporting additional counterbalancing weights, said latter arm including two parallel rods, a poise adapted to travel along said rods, nut and screw mechanism connected to said poise for shifting the same, an electric motor for operating said screw, means controlled by the movement of said beam for automatically starting and stopping said motor, means controlled by the movement of said poise for reversing said motor, a revolution counter operatively associated with said screw and graduated to indicate the weight of the goods placed on said scale, means operated by said poise at the end of its travel in one direction for placing additional counterbalancing weights upon said weight pan to permit the carrying out of the weighing operation, said reversing means operating automatically to return said poise along said screw the required distance to complete the weighing operation, the movements of said beam upon removal of the weighed goods operating automatically, through control of said motor, to return said poise to starting position, means for removing said additional weights as said poise returns to starting position, means for de-energizing said motor when said poise reaches its starting position, and total-price, unit-price and recording mechanism associated with said revolution counter.

1,753,203. ADVERTISING DEVICE. BERNHARD HOETGER, Worpswede, near Bremen, Germany. Filed Mar. 15, 1929, Serial No. 347,250, and in Germany Jan. 23, 1929. 8 Claims. (Cl. 40—32.)

1. In an advertising device consisting of a number of cooperative units, each unit comprising a turnable slat of triangular cross section at each of its ends, turning pivots for the said slats, an apron carrying advertising matter passing over said slats, catch pins carried at the ends of the slats near the points of the triangular cross section, a resilient member having a hooked end to grip and move said catch pins, and means to move said resilient member so as to turn said slats and thereby advance the apron upon the slats by another step.

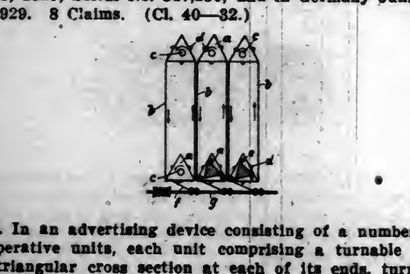
1,753,204. STENCIL SHEET. SHINJIRO HORII, Tokyo, Japan. Filed Aug. 4, 1927. Serial No. 210,728. 2 Claims. (Cl. 41—38.6.)

1. A stencil sheet for stencilization by pressure, comprising a base of thin Japanese paper of the maximum felting and grease-proofing qualities, consisting of highly hydrated bast fibres, and coated with a coating material impermeable to ink.

1,753,205. STENCIL SHEET. SHINJIRO HORII, Tokyo, Japan. Filed Dec. 31, 1927. Serial No. 244,049. 3 Claims. (Cl. 41—38.6.)

1. A stencil sheet adapted for stencilizing by pressure, comprising a base of fibrous material coated with a coating material, consisting of a solution of esters of polysaccharides, other than cellulose acetate and starch acetate, which are insoluble in water, in admixture with a tempering agent, and aluminum hydroxide, the latter being dispersed in the solution forming a homogeneous suspensoid.

1,753,206. DIE-SINKING OR ENGRAVING MACHINE. JOHN E. JOHNSON, Aurora, Ill. Filed Nov. 19, 1928. Serial No. 320,420. 1 Claim. (Cl. 90—13.2.)



In a mechanism of the class described, the combination of a horizontally movable carriage, a support for the same, means for guiding the carriage in a horizontal plane, a tool-supporting member pivotally mounted on the carriage and movable upward and downward upon a horizontal axis, a tool rotatively mounted on and movable with said pivoted tool-supporting member, a guiding stylus on and movable with said pivoted tool-supporting member and adapted to engage a pattern for guiding the tool with respect to the material to be operated upon, and driving means on and movable with said carriage and connected with the tool, for rotating the same.

1,753,207. CLASP FOR JEWELRY. JACQUES KREISLER, New Rochelle, N. Y. Filed Aug. 8, 1928. Serial No. 298,336. 9 Claims. (Cl. 24—77.)



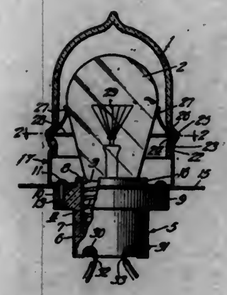
1. A clasp for bracelets, comprising separable slide and snap members, said slide member having a flat bottom portion with inwardly bent portions at the sides to frictionally embrace opposite marginal edges of the bracelet and further yieldable means to frictionally engage the mid transverse portion of the bracelet between the first means.

1,753,208. BRAKE SHOE. LUDGER E. LA BRIE, South Bend, Ind., assignor to Bendix Brake Company, South Bend, Ind., a Corporation of Illinois. Filed Dec. 5, 1928. Serial No. 323,612. 7 Claims. (Cl. 188—250.)



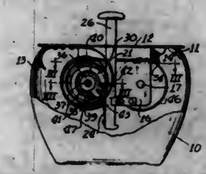
1. A channel-shaped brake shoe comprising two parts, each with a radial portion and a circumferential flange, the two circumferential flanges being superposed and the two radial portions being of unequal width and forming the sides of the channel.

1,753,209. LAMP AND LAMP HOOD AND CONNECTION FOR ELECTRIC SIGNS. WILLIAM L. LAIB, Oak Park, Ill. Filed Sept. 24, 1928. Serial No. 308,059. 5 Claims. (Cl. 240—128.)



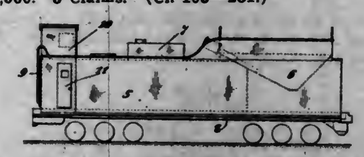
1. In a device of the class described, the combination of a glass lamp hood having an annular rim adapted to encircle a lamp bulb, a cup-shaped hood-supporting member having an annular rim in engagement with the annular rim of said hood, means on the engaged rim portions of said hood-supporting member and hood, for securing the same in engagement with each other, and resilient means attached to the inner side of the annular rim portion of the hood and supported by the same in engagement with a hood-encircled peripheral portion of such lamp bulb, and adapted to resist the rotation of the hood and hood-encircled lamp bulb relatively to each other.

1,753,210. WASTE RECEPTACLE. HERBERT J. MELVILLE, Chicago, Ill. Filed Dec. 5, 1927. Serial No. 237,702. 3 Claims. (Cl. 131—51.)



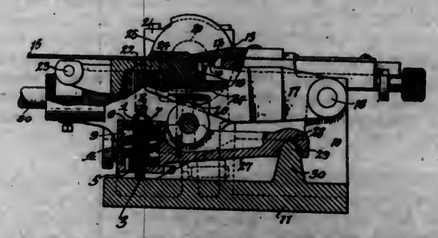
1. The combination with confronting rolls, relatively fixed shafts for carrying said rolls, means for yieldably supporting said rolls in confronting relation, means for actuating said rolls to extrude refuse therethrough and simultaneously effect the extinguishment thereof, and ratchet means operatively associated with said actuating means to impart intermittent movement in one direction to said rolls responsive to said actuating means.

1,753,211. LOCOMOTIVE TENDER. JOHN E. MUHLFELD, Scarsdale, N. Y. Filed Jan. 21, 1929. Serial No. 372,560. 5 Claims. (Cl. 105—231.)



1. A tender for locomotives comprising an extended under frame, a tender body supported upon said extended under frame, and a cabin at the rear end of the tender body affording a compartment for housing members of the train crew.

1,753,212. FOLDING MACHINE. FREDERICK E. MUNSCHAUER, Buffalo, N. Y., assignor to Niagara Machine and Tool Works, Buffalo, N. Y., a Corporation of New York. Filed July 3, 1928. Serial No. 290,242. 4 Claims. (Cl. 153—16.)



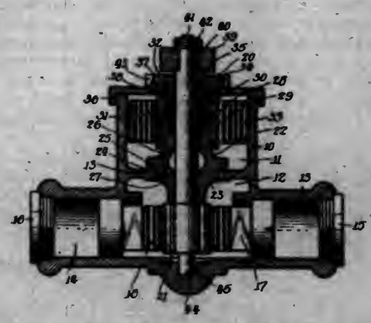
1. A folding machine including a folding blade; a folding bar adapted to bend material around said blade; a clamping jaw which is adapted to move toward and from said blade and which is pivotally connected with said folding bar; a rotary cam turning with said folding bar; an abutment engaged by said cam; an arm supporting said abutment and pivoted at one of its ends and provided at its opposite end with a pocket; a lower screw nut capable of vertical movement in said pocket but held against turning; an adjusting screw working in said nut and resting on a fixed part; a follower adjustably mounted in the upper part of said pocket; and a spring interposed between said nut and follower.

1,753,213. RADIO AERIAL. EMIL NEINFELDT, St. Paul, Minn. Filed Feb. 6, 1928. Serial No. 252,202. 1 Claim. (Cl. 250—33.)



A radio aerial comprising a globular wire cage, an electroconductive column with base means adapted to be attached to a fixed object, said cage mounted concentric about the upper part of said column and comprising a series of wires radiating from the upper part of the column, each wire in semi-circular formation and in a vertical plane, each said wire extending inwardly at its lower part and fixed to the column, and each wire extending outwardly from said lower fixed part thence downwardly and inwardly in open loop formation and its extremity in proximity to said column, said lower fixed part comprising an integral horizontal flange on the column formed with a perimetral groove to be engaged by the lower parts of the wires and a ring arranged to hold said wires in the groove.

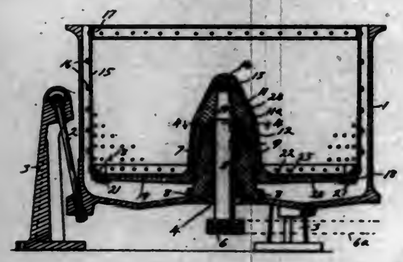
1,753,214. DOORCHECK. DAVID R. LASIER, Chicago, Ill., assignor to Norton-Lasier Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1928. Serial No. 284,158. 1 Claim. (Cl. 16—62.)



In a closing and checking device of the type having an integrally formed casing constituting a fluid cylinder and a spring compartment, the combination of an apertured partition dividing said casing into said cylinder and spring compartment, and an apertured outside wall for substantially closing said spring compartment, disposed in opposed relation to said partition, a spindle and bearing assembly extending through said spring compartment with the one end of said spindle extending beyond said wall and the other end of said spindle extending beyond said partition and into said cylinder, said spindle and bearing assembly being mounted in the aperture of said partition and extending into the aperture of said wall but spaced from and out of supporting contact therewith, said spindle

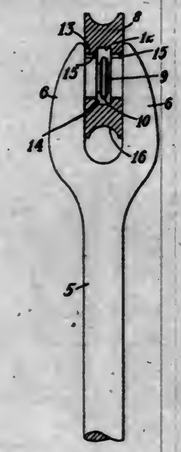
and bearing assembly having spaced bearing surfaces located adjacent said outside wall and adjacent said partition respectively and having sealing means located between said bearing surfaces.

1,753,215. EXTRACTOR. ALFRED PARTLOW, Lincoln Park, Mich., assignor to Vorclone Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 31, 1928. Serial No. 266,408. 26 Claims. (Cl. 210—76.)



13. An extractor basket having an opening at its bottom for the discharge of its contents, and comprising a hinged door controlling said opening, means for normally holding said door closed and drive means for said basket carried by said door.

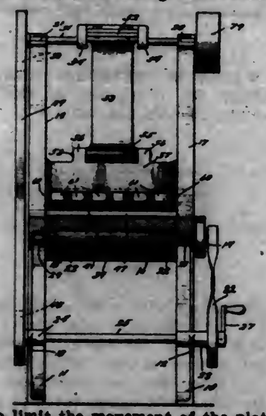
1,753,216. GUY ROD AND METHOD OF MAKING IT. CHARLES L. PEIRCE, Jr., Pittsburgh, Pa., assignor of one-half to Hubbard and Company, a Corporation of Pennsylvania. Filed May 1, 1929. Serial No. 359,578. 9 Claims. (Cl. 29—148.)



1. A guy rod having a bifurcated end, a stub shaft formed on the inner surface of each furcation, a weld joining said stub shaft to form a single cross member and a cable receiving annulus having spaced bearing faces formed in the bore thereof for engaging said cross member on opposite sides of said weld.

1,753,217. DOUGH-CUTTING MACHINE. TADEUSZ PIEKOS, West Lynn, Mass., assignor of one-half to Scepan Baczewski, Lynn, Mass. Filed Apr. 20, 1928. Serial No. 271,421. 2 Claims. (Cl. 107—26.)

1. In a dough cutting machine, a cutter head comprising a plurality of circular cutting members arranged concentric to each other in spaced relation and having screw threaded engagement with the head to be readily removable, movable plates of a shape to substantially fit the spaces between the concentric cutters, and each plate having a hollow stud, pins having heads retained in the



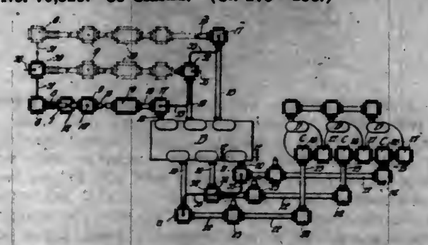
hollow studs to limit the movement of the plates, springs beneath the plates for normally urging the plates toward the cutting edges of the members to free from the members the objects cut thereby, and fillers in the openings in the studs to preserve the continuity of the surface of the plates.

1,753,218. SNAP-FASTENER SOCKET. DANIEL I. REITER, New York, N. Y. Filed July 12, 1928. Serial No. 292,219. 1 Claim. (Cl. 24—218.)



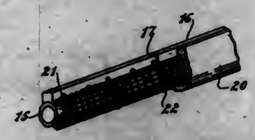
A snap fastener socket comprising a resilient stud-engaging wire, and a holder and attaching element therefor consisting of a single piece of metal having a closed, flat-bottomed central, cup-like portion of relatively large diameter to serve as a thumb-piece support, and sounding device, pointed marginal prongs spaced in a circular series about said cup-like portion to serve as attaching means, and inturned prongs alternating with certain of said attaching prongs to serve as a part of the means whereby the stud-engaging wire is retained in the holder and attaching element.

1,753,219. BUS AND SWITCH STATION. ALLEN M. ROSSMAN, Chicago, Ill., assignor, by mesne assignments, to Rossman Patents, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed Nov. 20, 1925. Serial No. 70,819. 35 Claims. (Cl. 175—298.)



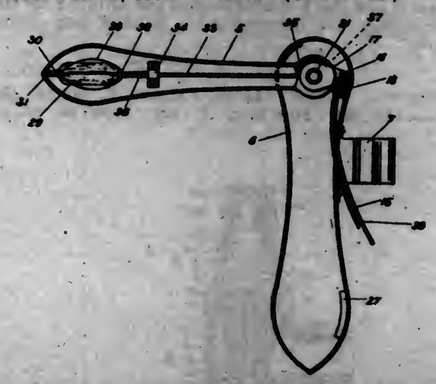
15. A multi-phase alternating current bus and switch station comprising a compact, permanent network of single phase power conductors and apparatus, all live power conducting parts being continuously sheathed in a grounded fluid tight metal sheath.

1,753,220. TRACK FOR USE IN FURNACES. LLOYD J. STANBERY and NELSON T. BRANCH, Toledo, Ohio, assignors to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Feb. 4, 1929. Serial No. 337,481. 8 Claims. (Cl. 263—6.)



1. A track for use in furnaces comprising a rail, a support for the rail having a passage for cooling medium extending lengthwise thereof, and a heat-insulating jacket encasing the rail except for the work contacting portion thereof.

1,753,221. AUTOMOBILE SIGNAL. ERNST TELTZ, Chicago, Ill. Filed Oct. 3, 1927, Serial No. 223,650. Renewed Feb. 10, 1930. 1 Claim. (Cl. 116—53.)



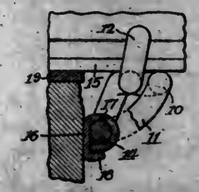
In a device of the class described in combination with a vehicle a semaphore arm, a housing for said arm adapted to be fastened to the vehicle, the arm being pivotally mounted in its housing, an actuating lever, a housing therefor mounted adjacent the driver's seat of the vehicle, the lever being pivotally supported in said housing, a segment also pivotally mounted in said housing and adapted to be engaged and to be pivoted by said actuating lever, a cable, one end of said cable being fastened to the segment and the other end to the semaphore arm, means on the actuating lever for engaging the segment and for moving it in one direction, means in the semaphore housing for urging the semaphore arm and the segment connected therewith into neutral position and means on the housing for the actuating lever for preventing accidental movement of said lever.

1,753,222. MOTION-PICTURE-PROJECTING DEVICE. ANDREW J. TIMONEY, New York, N. Y., assignor of one-half to Harold Williams and Gus Durkin, New York, N. Y. Filed May 6, 1929. Serial No. 360,894. 1 Claim. (Cl. 88—24.)



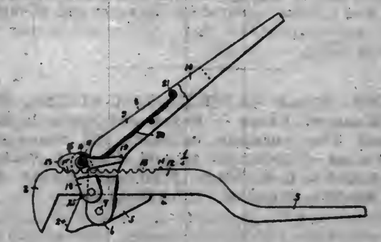
In combination with the optical system of a motion picture machine for projecting film having decentered images, an attachment comprising a combined prismatic and cylindrical lens positioned intermediate the objective lens and the gate of the machine, said combined lens serving to shift projected images to the center of a screen and spread the images laterally to cover the entire screen.

1,753,223. RAIL ANCHOR. ARNOLD H. TOLD, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1928. Serial No. 329,545. 11 Claims. (Cl. 238—330.)



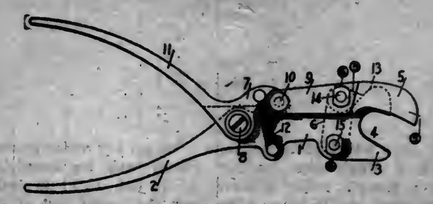
1. A spring-clamp rail anchor comprising a cross-bar having integral flange-engaging portions, and a separate foot-piece mounted on the cross-bar having a flat tie-abutting face of extended area, the anchor being adapted to be sprung into position on the rail base with said tie-abutting face spaced substantially below the bottom of the rail base and in front of the cross-bar and the flange-engaging portions.

1,753,224. WRENCH. CLINTON DE WITT WAGNER, Cedar Rapids, Iowa. Filed May 31, 1929. Serial No. 367,550. 6 Claims. (Cl. 81—79.)



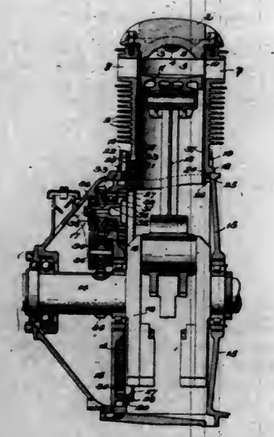
1. A wrench of the character described comprising a shank having a fixed jaw, a lever handle having an angular bifurcated portion straddling the first shank, a slidable jaw pivoted between the bifurcated portion of said lever and a fulcrum in line of said shank to which said lever is pivoted, links connected to said fulcrum, and carrying adjusting means for said slidable jaw.

1,753,225. PRUNING SHEARS. FRANK L. WALTER, Dayton, Ohio; Margaret M. Walter executrix of said Frank L. Walter, deceased. Filed Feb. 26, 1925. Serial No. 11,709. 3 Claims. (Cl. 30—11.)



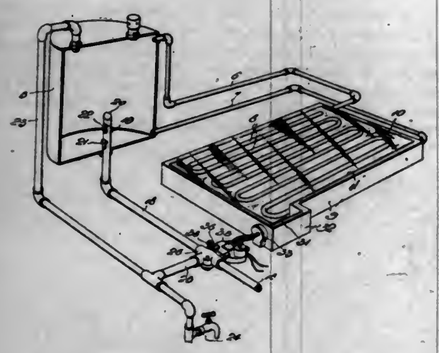
1. Shears of the character described comprising a member having a part forming a work support, a blade to cooperate with said work support, a link to connect said blade with said member, eccentric pivot pins for connecting said link with said blade and said member, said pivot pins being adjustable to adjust said blade with relation to said work support, and means for actuating said blade.

1,753,226. INTERNAL-COMBUSTION ENGINE. RAYMOND WARR, Ithaca, N. Y. Filed May 24, 1927. Serial No. 193,939. 14 Claims. (Cl. 123—55.)



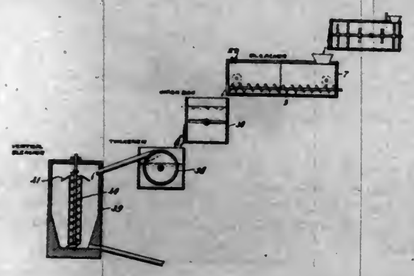
1. A radial engine having a sleeve valve in each cylinder, each valve having a flat and a conical cam surface and gear teeth on its inner end, a driving gear in the crank case in mesh with said gear teeth and having a conical roller surface in engagement with said conical cam surfaces, and a guide mounted on the inner end of each cylinder and engaging said flat cam surface of the corresponding valve.

1,753,227. SOLAR WATER-HEATING SYSTEM. HENRY A. WHEELER, FRANK J. BENTZ, and JAMES L. MASON, Miami, Fla., assignors, by direct and mesne assignments, of three-fourths to said Frank J. Bents and one-fourth to L. E. Bents. Filed Aug. 22, 1928. Serial No. 301,370. 9 Claims. (Cl. 126—271.)



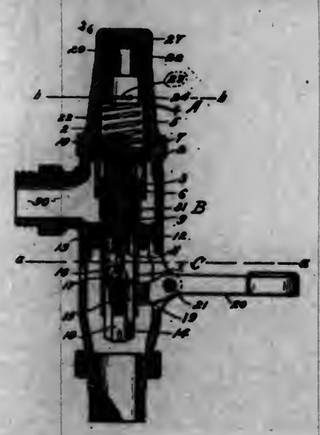
1. In a water heating system, a closed hot water storage tank, a supply pipe leading to said tank for supplying water thereto under pressure while hot water is being discharged, a discharge pipe from the upper end of the tank through which hot water may be discharged, means for preventing flow of water to the tank through said supply pipe, conducting means for permitting discharge of hot water from the tank by gravity when said flow-preventing means is closed, and a valve for then admitting air to the tank and for later venting said tank while refilling.

1,753,228. METHOD OF AND APPARATUS FOR BLEACHING PAPER PULP. ROBERT B. WOLF, New York, N. Y., and RAYMOND P. HILL, Glen Rock, N. J. Filed Oct. 23, 1928. Serial No. 314,439. 19 Claims. (Cl. 8—2.)



1. The method of bleaching paper pulp which comprises advancing a substantially non-fluid and quiescent mass of pulp and bleaching reagent and agitating the mass periodically, and discharging the bleached pulp continuously.

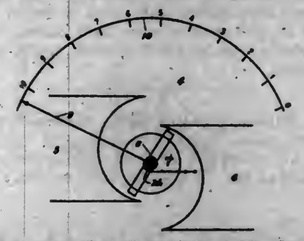
1,753,229. FLUSH VALVE. ALFRED E. WOLFF, Kansas City, Mo. Filed Sept. 27, 1927. Serial No. 222,891. 4 Claims. (Cl. 137—93.)



1. A valve of the character described, comprising a sectional body portion, means for removably connecting the sections, a rotatable valve housing within the body portion, said body portion having a groove defining a passage-way, said valve housing having a tapered slot adapted to register with the groove to establish communication between the valve housing and valve body to allow liquid to pass into the valve housing, a valve operating in the valve housing and manually controlled means for moving the valve member to control the amount of liquid passing through the valve body.

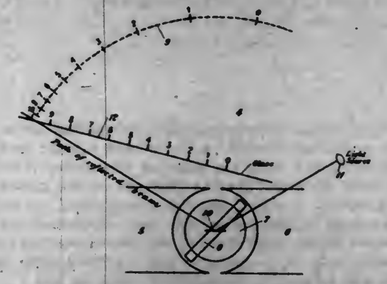
1,753,230. METER. FRED H. BEST, Westfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 25, 1928. Serial No. 257,018. 2 Claims. (Cl. 179—175.)

1. A meter having a movable coil through which flows a current to be measured, a pointer associated with the coil, a scale having uniform graduations throughout corresponding to transmission units which are logarithmic functions of the current to be measured, said scale being arranged along arcs subtending the angle of movement of said coil, and pole pieces positioned up either side of the coil, said pole pieces being so arranged with respect to the coil and being so shaped as to provide an air gap through which the coil moves and which air gap varies



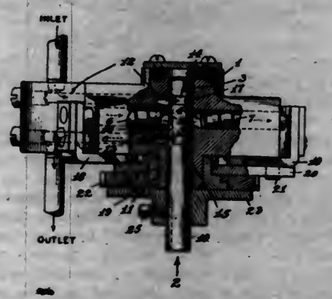
in such a manner that the pointer will move a substantially uniform distance at any part of the scale in response to a change in current corresponding to a transmission unit.

1,753,231. METER FOR TRANSMISSION TESTING. FRED H. BEST, Westfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 25, 1928. Serial No. 257,019. 4 Claims. (Cl. 179—175.)



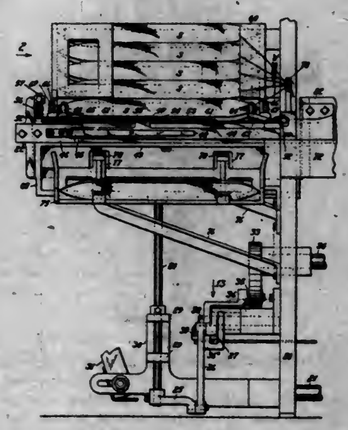
1. A meter having a rotatable coil through which flows current to be measured, an indicator movable with said coil, a source of light projecting rays centered on the indicator, and a scale having substantially uniform graduations, said scale being positioned in such angular relation to the normal position of the indicator that the beam of light emanating from said indicator will increase in its degree of movement per scale unit as its deflection is advanced along the scale until a maximum movement of the light beam is obtained at its most advanced position.

1,753,232. PUMP. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Chemical Engineering Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 30, 1926. Serial No. 98,475. 4 Claims. (Cl. 103—174.)



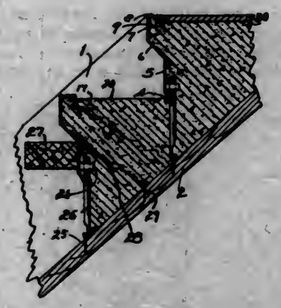
1. A pump including: a casing, a pump chamber therein, a valve chamber intersecting the pump chamber and dividing it into two portions, a rotating valve in said valve chamber, two oppositely reciprocating pistons one for each portion of the pump chamber, a yoke connecting the two pistons, an eccentric, a connecting member between the eccentric and the yoke, a rotating member surrounding a concentric portion of the eccentric, and transmission means surrounding the valve to drive the rotating valve and the eccentric from the rotating member.

1,753,233. SHUTTLE-CHANGING LOOM. AUGUSTIN J. CHEVRETTE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 8, 1927. Serial No. 196,878. 11 Claims. (Cl. 139—289.)



1. In a shuttle-changing loom, a lay, a stationary shuttle magazine located approximately in vertical alignment above the normal position of the running shuttle when the lay is at back center, a drop box frame having an upper regular shuttle box and a lower auxiliary shuttle box, weft-controlled mechanism to raise and lower said boxes, the lowest shuttle in said magazine being positioned substantially in said regular shuttle box when the latter is raised and at back center, and being removed from said magazine in a substantially horizontal forward direction by forward movement thereof in unison with said lay and effected thereby.

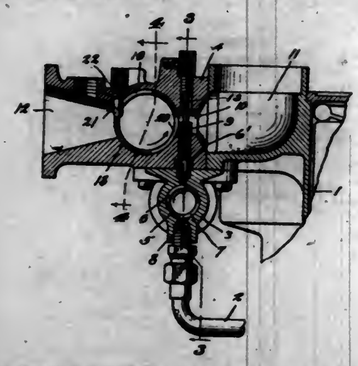
1,753,234. METAL RISER AND NOSING FOR CONCRETE STEPS. SETH A. COPE, San Francisco, Calif. Filed Sept. 12, 1927, Serial No. 218,918. Renewed Sept. 10, 1929. 1 Claim. (Cl. 72—96.)



A device of the class described comprising a sheet metal strip having a portion of the bottom edge bent backwardly, a vertical portion, a portion bent forwardly at an

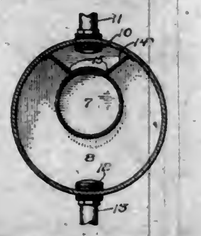
angle therefrom, a second vertical portion, a horizontal portion bent back from said second vertical portion, a portion bent down from said horizontal portion, a series of holes in said bent down portion adapted to receive reinforcing wires, a plurality of clips fixed to said angle portion, holes in said clips to receive reinforcing wires, a pair of threaded nuts fixed to said first vertical portion, threaded bolts in said nuts, said bolts adapted to extend to the bottom board of a stair frame, and means to attach the lower ends of said bolts to said bottom board.

1,753,235. CARBURETOR. RALPH A. DUFF, Nebraska City, Nebr. Filed May 10, 1924. Serial No. 712,387. 1 Claim. (Cl. 261—47.)



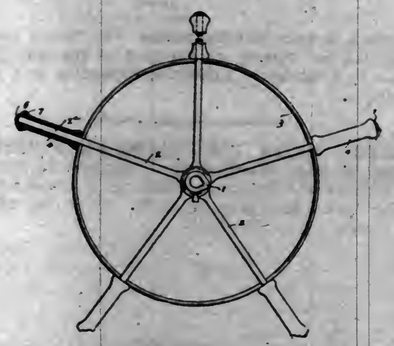
A carburetor including a body having a fuel intake port, an air inlet, and an outlet for communication with an intake manifold, there being a restricted passage between the air intake and the outlet, valved means for spraying fuel across the current of air flowing through the passage, a sleeve valve mounted for rotation between said passage and the outlet, there being opposed slots in the valve movable into and out of register with the passage and outlet respectively thereby to control the flow of fuel to the outlet, means outside of the carburetor body for limiting the rotation of the valve to full closed or open position, there being a notch in one wall of the outlet slot in the valve adapted to be positioned to permit flow of mixture through the valve when the valve is in full closed position, thereby to allow idling of an engine supplied by the carburetor, and a pin adjustable into and out of the notch when the valve is in full closed position, thereby to control the flow of mixture through the notch to the outlet when the valve is in full closed position, the inlet slot of the valve having a reduced extension for maintaining communication between the restricted passage and the interior of the valve when the valve is in full closed position.

1,753,236. LIQUID-COOLING SYSTEM. DAVID H. EBINGER, Columbus, Ohio, assignor to The D. A. Ebinger Sanitary Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 11, 1927. Serial No. 232,698. 4 Claims. (Cl. 62—141.)



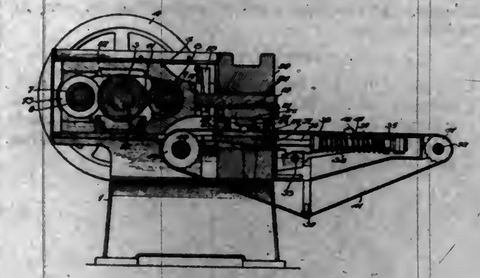
1. In a cooling device, a casing open at one end, a detachable closure for the open end of said casing, a cooling unit carried by said closure and situated longitudinally within said casing, the longitudinal axis of said cooling unit being situated above the longitudinal axis of said casing, a liquid intake in the top of said casing above said cooling unit, and a liquid outlet at the bottom of said casing below said cooling unit, said intake and outlet being disposed in substantially registering vertical planes.

1,753,237. WHEEL STRUCTURE. ERNEST E. EINFELDT, Davenport, Iowa, assignor to French & Hecht, Incorporated, a Corporation of Iowa. Filed Dec. 29, 1927. Serial No. 243,281. 5 Claims. (Cl. 74—33.)



2. In a wheel structure, the combination of a hub, spokes connected thereto, a rim seated against and connected integrally with the sides of the spokes inward of their outer ends and leaving portions of the spokes projecting beyond the rim, handles surrounding the projecting portions of the spokes and seated against the rim, and heads on the outer ends of the spokes bearing against the outer ends of the handles and confining them on the spokes and in positive engagement with the rim.

1,753,238. COMPRESSING MACHINE. LOUIS E. ENDSLEY and EDWARD V. CORFF, Chicago, Ill., assignors to Grip Nut Company, Chicago, Ill., a Corporation of Illinois. Filed June 9, 1922. Serial No. 566,955. 14 Claims. (Cl. 10—72.)



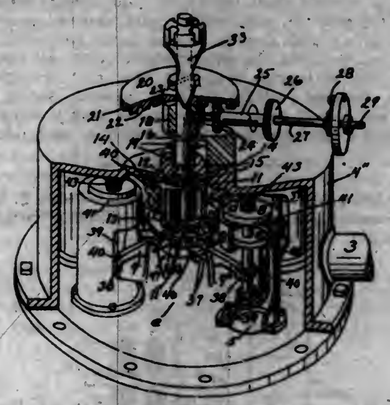
3. In a device of the kind described, a compression block, a cooperating wedge member therefor, and means for positively reciprocating said wedge member, in combination with a cooperating anvil member, means for vertically lifting the anvil member a distance measured by the thickness of the article operated upon, resilient means for so operating the lifting member, positive means for retracting the lifting member, a conveyor arranged to deliver the articles between the block and the anvil, and means for operating the conveyor with a step by step movement.

1,753,239. CAP STRUCTURE FOR COLLAPSIBLE TUBES. FREDERICK L. FOX, Washington, D. C. Filed May 3, 1926. Serial No. 106,845. 18 Claims. (Cl. 221—60.)



1. In combination, a collapsible tube for containing fluent material having a neck formed with a ring-shaped discharge opening, a closure cap slidably carried by said neck and having a discharge opening in concentric relation to said ring-shaped discharge opening in the neck, and means for seating the closure cap on the neck, to close said ring-shaped discharge opening against communication with the opening in said cap.

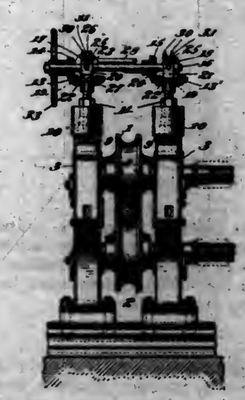
1,753,240. FLUID-DISTRIBUTING APPARATUS. WARREN HOWELL and GARDNER SHERBURNE, Pasadena, Calif. Filed Aug. 28, 1926. Serial No. 132,236. 8 Claims. (Cl. 137—78.)



1. The combination with a meter, of a chamber connected to receive fluid passing through the meter, and provided with a series of outlets to discharge such fluid from the chamber; valves for said outlets respectively; means to yieldingly hold the valves closed; valve opening means operated by the meter and adapted to open the valves successively, and to hold one valve open while reaching position to open a succeeding valve; and snap action means to open the succeeding valve just before the valve opening means leaves the preceding valve free to be automatically closed.

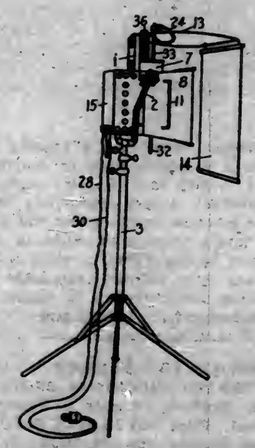
1,753,241. WELDING-ROLL SCREW DOWN. JOHN J. KENNEDY, Pomeroy, Pa., assignor to Bethlehem Steel Company. Filed Dec. 11, 1926. Serial No. 154,113. 2 Claims. (Cl. 80—58.)

1. A screw down for a rolling mill comprising roll adjusting screws, separate transmission connections between the screws and a control shaft, the control shaft being journaled in bearings movably mounted on the adjusting screws, a cam rotatably mounted on one of said bearings, and engaging a support on one of the adjusting



screws, whereby rotation of said cam elevates said bearing to disengage the control shaft and one of the adjusting screws.

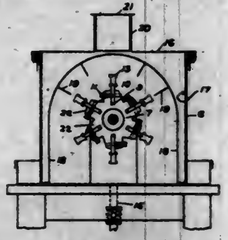
1,753,242. ARC LAMP. LAWRENCE C. LEOTY, Dayton, Ohio. Filed Feb. 26, 1925. Serial No. 11,745. 9 Claims. (Cl. 176—51.)



1. In an arc lamp, separate supporting devices for two carbons, one of said devices comprising a clutch to engage its carbon and support the same normally in spaced relation to the other carbon, a solenoid having a coil connected in circuit with said carbons and a core slidably mounted in said coil so that the vibrations imparted thereto by an alternating current passing through said coil will vary as the magnetic strength of said coil varies and means for so connecting said core with said clutch that the vibrations imparted to said core when said coil has substantially its full magnetic strength will not affect said clutch but the vibrations imparted to said core when said magnetic strength of said coil has decreased to a predetermined extent will actuate said clutch to gradually feed its carbon toward said other carbon.

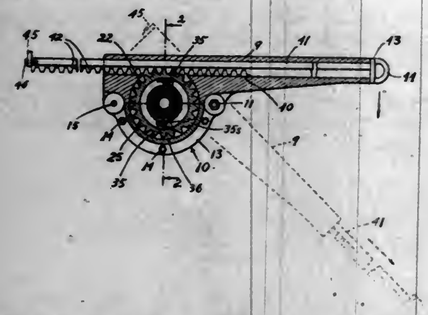
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1,753,243. MATRIX-CLEANING MACHINE. DANIEL L. LIDDLE, Washington, D. C. Filed Feb. 6, 1928. Serial No. 252,320. 3 Claims. (Cl. 141—1.)



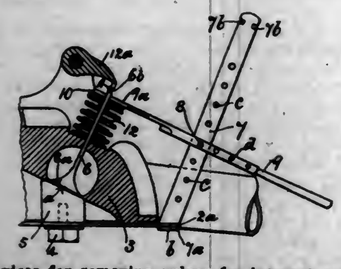
1. In a matrix cleaning machine, a rotatable shaft, a spider on the shaft, bars on the spider, screws removably holding the bars in place, means for holding matrices on the bars, a tank for holding a fluid below the shaft, and means for rapidly rotating the shaft.

1,753,244. UNSCREWING ATTACHMENT FOR DRILL PIPE. ARTHUR E. MARTOIS, Compton, and ROBERT D. PEARSON, Los Angeles, Calif. Filed Feb. 16, 1929. Serial No. 340,624. 2 Claims. (Cl. 81—57.)



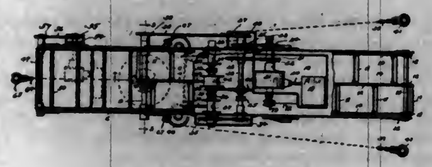
2. A pipe wrench comprising a housing adapted for mounting upon a rotatable pipe, or coupling, gripping means adapted to grip said pipe or coupling and comprising a gear-wheel, a rack operatively engaging said gear-wheel, and a hollow handle within which said rack is slidable, said handle forming an extension of said housing and said rack having a portion which projects beyond said housing and is at all times accessible for the purpose of attaching means thereto to impart a combined traction and swinging force to said rack.

1,753,245. DEVICE FOR REMOVING THE VALVES FROM INTERNAL-COMBUSTION ENGINES. DANIEL NEAL, Otley, England, assignor to James Whitehead, Otley, England. Filed July 18, 1928, Serial No. 293,757, and in Great Britain Aug. 16, 1927. 1 Claim. (Cl. 29—86.3.)



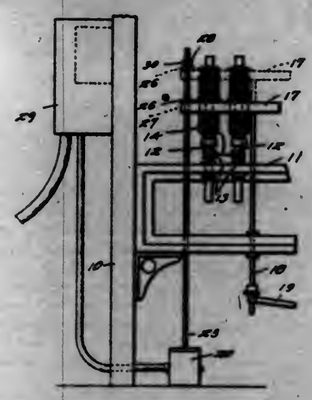
In devices for removing valves for internal combustion engines, a base piece having adjusting slots as described, a block mounted to be adjusted along one slot, a lever-support formed to be adjusted along the other slot in the base piece, said lever-support having a series of openings formed in it to permit the adjustment of the hand lever thereon, a hand lever having bifurcations at one end and a handle at the other end with a series of pivotal openings to permit the adjustment of said hand lever and means for pivoting said lever upon its support.

1,753,246. LOADING MACHINE. NORTON A. NEWDICK, Columbus, Ohio, assignor to The Coloder Company, Columbus, Ohio, a Corporation of Delaware. Filed Jan. 19, 1927. Serial No. 162,142. 6 Claims. (Cl. 198—11.)



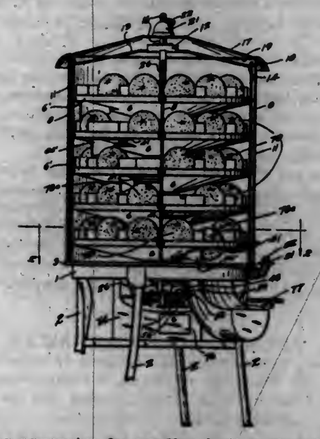
1. In a loading machine, a portable base unit, a gathering conveyor connected with said base unit, a delivery conveyor carried by said base unit and having the forward portion thereof arranged beneath the discharge end of said gathering conveyor in receiving relation with respect thereto, a pedestal casting arising from said base unit, a vertical shaft carried by said delivery conveyor and turnable in said casting, said casting being provided with a guide opening, a motor driven reel mounted on said base unit and the cable connected with said reel and extending rearwardly from the base unit through the guide opening provided in said pedestal casting, the rear end of said cable being connected with a rearwardly disposed anchor mounted independently of said machine.

1,753,247. SPINNING STOP MOTION. FLOYD T. NOAH, Greensboro, N. C. Filed Feb. 16, 1929. Serial No. 340,591. 4 Claims. (Cl. 118—5.)



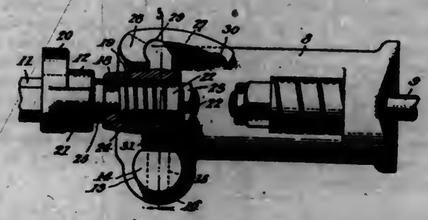
1. In a spinning machine stop motion, the combination with the motor driven spindles and the vertically movable traverse thereof, of an electric circuit including said motor, a switch in the circuit including contact members, a reciprocable member normally bridging the contacts to maintain the circuit, and means on the traverse for engaging and moving the reciprocable member to break the circuit and stop the machine.

1,753,248. FRUIT-VENDING APPARATUS. HARRY G. NUTT, Altadena, Calif., assignor, by mesne assignments, to Selector Corporation, Salt Lake City, Utah, a Corporation of Utah. Filed Feb. 8, 1928. Serial No. 252,889. 8 Claims. (Cl. 312—94.)



1. In an apparatus for vending fruit, a plurality of fixed supporting members disposed one above another and inclined downwardly toward the center thereof, and a plurality of fruit conveying devices each provided with a plurality of impelling elements defining fruit-receiving compartments above the respective supporting members and operable to move fruit placed in said compartments around above said supporting members, each of said supporting members being provided with one opening of sufficient size to permit passage of a fruit therethrough, said conveying devices being adapted to permit fruit so moved over one of said openings to fall therethrough, and said openings in successively higher supporting members being successively displaced, in the direction of movement of the impelling elements, by an angular distance equal to the angular distance between successive compartments of said fruit impelling elements.

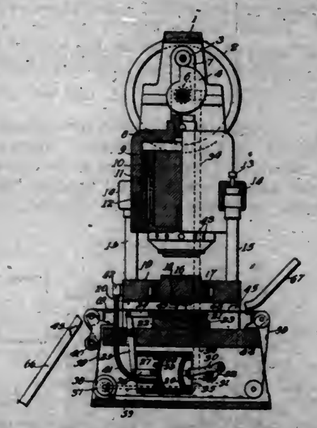
1,753,249. TOOL RETAINER. GUSTAV C. PEARSON, Denver, Colo., assignor to Gardner-Denver Company, Denver, Colo., a Corporation of Delaware. Filed Mar. 14, 1929. Serial No. 347,126. 5 Claims. (Cl. 121—32.)



1. The combination with a tool holder, of a swinging carrier, a pivotal mounting for the carrier, and on which it has a yielding mounting, a device with which the carrier yieldingly interfits to hold it in different positions, and a tool retainer movable with the carrier and having a yielding mounting thereon.

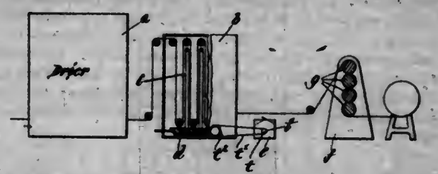
1,753,250. DEFLECTING MACHINE. WILLIAM E. SHARP and GEORGE F. SANDSTROM, Chicago, Ill., and GEORGE H. RIDLON, South Whitley, Ind.; said Sandstrom and Ridlon assignors to said Sharp. Filed Mar. 5, 1925. Serial No. 13,280. 19 Claims. (Cl. 10—72.)

3. In a device of the kind described, a suitable frame provided with a vertically movable ram slidably mounted therein, means for raising said ram and permitting it to fall, adjustable means for cushioning the fall of the ram, and a hammer member carried by the ram, said hammer member being adjustable longitudinally of the ram, in combination with a cooperating block adjustably mounted in the frame, means for resiliently maintaining the block



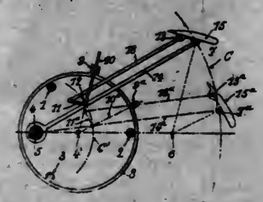
in its adjusted elevated position, an anvil piece arranged below the block, means for actuating said anvil piece to bring a nut placed thereon in snug contact with the block, a feed chain for bringing the nuts one by one in position upon the anvil piece to be operated upon, and means for actuating the feed chain in synchronism with the raising of the ram.

1,753,251. METHOD AND APPARATUS FOR FINISHING FABRICS. IVAR L. SJÖSTRÖM, North Andover, Mass., assignor to Manufacturers' Machine Company, North Andover, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1925. Serial No. 60,825. 15 Claims. (Cl. 26—47.)



1. In the process of finishing cloth by drying with heat, and calendering the combination with said process of the step of continuously cooling and dampening the cloth in the course of the passage of the cloth from the drying medium to the calender.

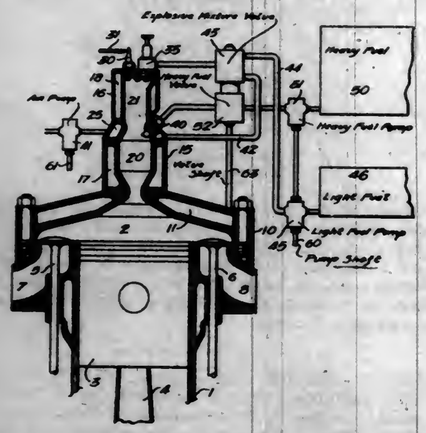
1,753,252. TURBINE-WHEEL PROPELLER AND MOTOR. CARL BRUNO STRANDGREN, Le Vesinet, France. Filed Feb. 17, 1928, Serial No. 255,160, and in France Feb. 25, 1927. 5 Claims. (Cl. 170—25.)



1. A turbine wheel for working in a fluid in relative motion thereto, comprising in combination a rotary mem-

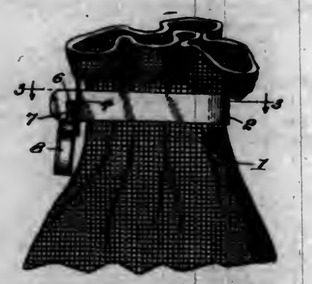
ber, a number of oscillating members pivoted to said rotary member about axes parallel to the axis of rotation of said rotary member, rigid members extending in a substantially radial direction and respectively pivoted to said oscillating members, cross-members respectively pivoted to said rotary member and to said rigid members, guide members rigidly secured to said cross-members respectively and rotary guiding means cooperating with said guide members respectively and whereby the axes of the latter are caused to constantly intersect at a single point.

1,753,253. INTERNAL-COMBUSTION ENGINE AND METHOD OF OPERATING SAME. ADOLPH A. TACCHELLA, Berkeley, Calif., assignor to Theodore E. Hammond, Los Angeles, Calif. Filed Sept. 4, 1923. Serial No. 660,961. 9 Claims. (Cl. 123—31.)



1. A method of burning a gaseous mixture to produce power, which comprises: producing a definite volume of compressed air substantially free from fuel gas or fuel vapor; vaporizing heavy fuel to produce a definite volume of heavy fuel vapor under pressure and adjacent to said compressed air; producing a definite volume of explosive mixture from a fuel having a materially lower flash point than said heavy fuel; and blowing said heavy fuel vapor into said compressed air by exploding said explosive mixture.

1,753,254. LOCKED LAUNDRY BAG. GEORGE F. THAXTON, Savannah, Ga. Filed Apr. 6, 1928. Serial No. 268,004. 1 Claim. (Cl. 24—30.5.)

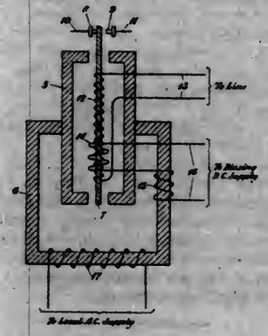


The combination with a mesh laundry bag, of means for sealing the mouth thereof, said means comprising a substantially U-shaped clasp formed from spring metal, the free ends of the arms of the clasp being normally engaged and exerting a tension toward each other, said substantially U-shaped clasp being designed to be arranged about the mouth of the bag, a metallic plate having a centrally disposed slot therein for receiving the free ends of the arms, said free ends having openings therein to receive the hasp of a lock to retain the plate on the arms and a key for said lock and said lock and key having corresponding identification indicia thereon.

1,753,255. PROCESS OF PRODUCING CELLULAR BUILDING MATERIAL. GEORGE MILLER THOMSON, Caledonia, Ontario, Canada, assignor, by mesne assignments, to Canada Gypsum and Alabastine, Limited, Paris, Ontario, Canada. Filed Dec. 20, 1926. Serial No. 156,060. 3 Claims. (Cl. 82—73.)

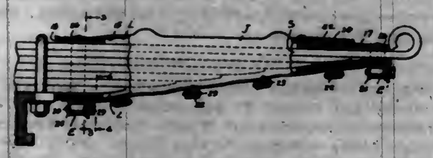
1. A process of making cellular building material comprising hydrating calcined gypsum, and homogeneously distributing throughout said hydrated mass bubbles of substantially uniform size by mechanical agitation in a way to preclude the incorporation therein of volumes of air from the atmosphere other than those admitted to form said uniform bubbles during the mixing process.

1,753,256. ALTERNATING-CURRENT RELAY. VAUGHN P. THORP, Riveredge, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 16, 1924. Serial No. 693,313. 4 Claims. (Cl. 175—335.)



4. A relay comprising a divided yoke, an extension for magnetically connecting the divided portions of the yoke, an armature movably mounted between the portions of the yoke, a coil associated with the said extension, a second coil associated with said extension, means independently associated with each coil for independently impressing thereon alternating currents in phase with each other for creating an operating flux and a polarizing flux in said yoke and armature, said fluxes coacting to cause said armature to move in the same direction during both the positive and negative half cycles of alternating current wave, and means serially connected in circuit with said extension and armature for biasing said armature to its spacing contact.

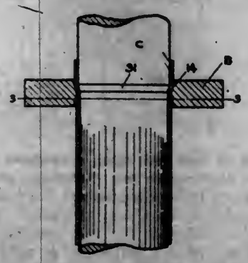
1,753,257. SPRING BOOT. ALFRED R. ULP, Pasadena, Calif. Filed Jan. 18, 1927. Serial No. 161,860. 9 Claims. (Cl. 267—37.)



6. In a spring boot, flexible members adapted to house a portion of a spring, and clamping elements embracing

the members and comprising straps each having one end secured to one of the members, and a device for coiling the opposite end to constrict the strap into clamping relation to the members, said device comprising a frame, a shaft journaled in the frame and having heads on its ends, a portion of the shaft being split to receive the strap ends and to permit a reduction in the diameter of one of the heads to allow it to be passed through and locked in a portion of the frame, a ratchet wheel fixed on the shaft and a pawl pivoted on the frame having a protuberance engaging the members in a manner to utilize the expansive action of the members in maintaining the pawls in a position to lock the wheel against rotation in one direction.

1,753,258. METHOD OF FORMING AND KNURLING METAL BODIES. OSCAR U. ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 16, 1923. Serial No. 632,331. 3 Claims. (Cl. 205—8.)



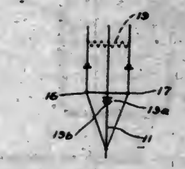
2. The method of forming a tubular body fluted over a portion of its length, having two inside and two outside diameters of approximately the same thickness throughout its length in a single operation, which comprises placing a blank having substantially the larger diameter, on a mandrel, forcing the smaller end of said mandrel and a portion of said blank through a fixed, gently tapering die provided with a toothed bore, whereby the section of the blank passing through the die is reduced and fluted, leaving the upper blank portion of the original inside and outside diameters untouched by said die.

1,753,259. IMPERVIOUS COMPRESSED-FLUID CONTAINER. ARTHUR C. BADGER, Newton, Mass. Original application filed Feb. 13, 1924, Serial No. 692,468. Divided and this application filed Oct. 21, 1925. Serial No. 64,047. 5 Claims. (Cl. 220—3.)



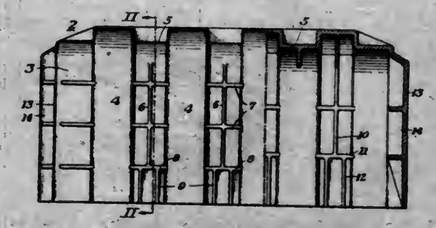
1. A gas container or cartridge adapted to serve as a source of fluid pressure containing a compressed charge of matter which is a gas at ordinary atmospheric temperature and pressure, composed of an originally separate metal body and cover which have been integrally and homogeneously welded together with the charge inside them and conjointly forming an imperforate shell completely enveloping such charge.

1,753,260. RADIOTUBE. CHARLES FREDERICK WILLIAM BATES, Cleveland Heights, Ohio. Filed June 16, 1927. Serial No. 199,192. 14 Claims. (Cl. 250—27.)



14. The combination with a radio tube having a base, an envelope and electrodes within the envelope including a filament, three terminals at the top of the envelope, two of which are joined to opposite ends of the filament, the third terminal being joined to a mid-point of the filament, and means including a source of direct current in series between the third terminal and the mid-point of the filament for balancing out pulsations in the filament voltage, and additional means for balancing out pulsations, comprising a high resistance connecting said first two terminals and having its mid-point connected with the third terminal.

1,753,261. ANNEALING BOX. ARTHUR M. CAPPER, Pittsburgh, Pa., assignor to Duquesne Steel Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Mar. 9, 1928. Serial No. 260,809. 1 Claim. (Cl. 263—49.)

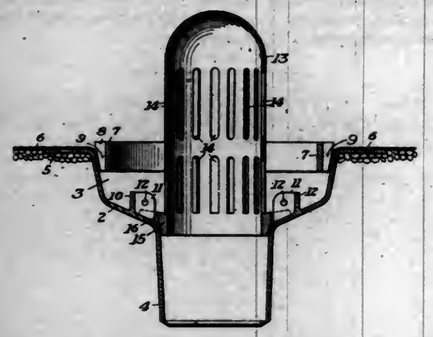


An annealing box having alternate reversely arranged channel portions formed in its walls and having a bracing structure between some of the alternate channels, said bracing structure including a vertical web terminating in a transverse web spaced above the bottom of the box, and a plurality of parallel webs out of alinement with said vertical web extending from said transverse web to the bottom of the box.

1,753,262. ROOF DRAIN. JOHN C. CROMWELL, Columbus, Ohio, assignor, by mesne assignments, to The Testite Company, a Corporation. Filed Aug. 19, 1924. Serial No. 732,898. 1 Claim. (Cl. 182—31.)

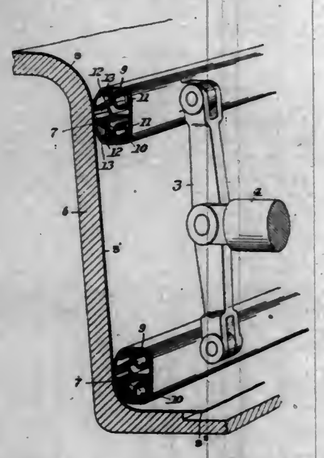
In a roof drain, a drainage cup adapted to be embedded in a roof and formed with a lower portion for

cooperation with a drain pipe, upwardly projecting lugs formed in the bottom of said cup, a strainer having a



lateral projecting flange shaped to cooperate with said lugs, and means cooperating with said lugs for holding the strainer in position.

1,753,263. WELDING APPARATUS AND METHOD OF WELDING. JOHN C. CROMWELL, Columbus, Ohio, assignor to The Steel Sanitary Company, Alliance, Ohio, a Corporation of Ohio. Filed Mar. 18, 1927. Serial No. 176,568. 8 Claims. (Cl. 113—59.)



1. In a welding apparatus, a plurality of relatively movable welding sections, each having a continuously extending welding slot formed therein, and means for maintaining said sections in cooperative relationship to the article to be welded, with the sections in abutting end to end relationship to provide a continuous substantially uniform welding zone throughout the entire length thereof.

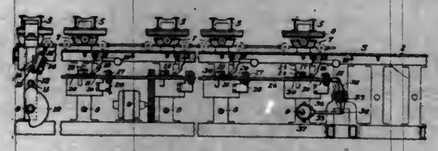
1,753,264. SCREEN AND HANGER THEREFOR. ELMER A. DAVIS, Detroit, Mich. Filed June 25, 1926. Serial No. 118,436. 4 Claims. (Cl. 156—14.)

3. In a screen frame of the class described comprising side and end rails having a transversely extending slot formed in the edge of a pair of opposite rails: a bar slidably mounted on each of said rails, an operating link swingably connected at one end to said bar and provided at its opposite end with a longitudinally extending slot terminating at one end in an enlarged opening, a pair of head bearing supporting members adapted for mounting in a window frame in spaced relation, said enlarged opening in said operating link permitting the entry of said head therethrough and said elongated slot in said operating link preventing the passage of said head therethrough, said bar having an elongated slot adjacent each and communicating with a transversely extending slot, said transversely extending slot registering with the transversely



extending slot in said rail upon movement of said bar a predetermined distance in one direction, said transversely extending slots being adapted for the reception of said supporting members, said longitudinally extending slots in said bar being adapted for the reception, upon movement of said bar in one direction, of said head bearing supporting members for locking said frame on said supporting members.

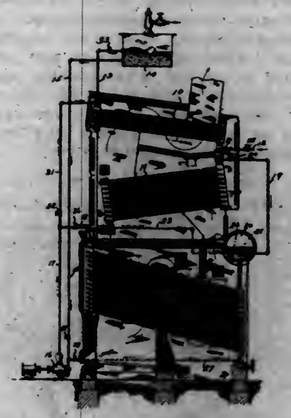
1,753,265. BLOCK-PRINTING MACHINE AND METHOD OF OPERATING THE SAME. DANIEL S. HOLT, New Brunswick, N. J., assignor to Armstrong Cork Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed Sept. 23, 1927. Serial No. 221,449. 60 Claims. (Cl. 101—199.)



1. In a block printing machine through which material to be printed is intermittently advanced in sections and having a plurality of printing heads to be controlled, a normally operative latch mechanism for holding each of such heads inoperative, a common releasing mechanism for operating the several latches, an electromagnet for each such head for selectively causing the releasing mechanism to release the latches controlling the operation of the several heads, and a selector for controlling the magnets adjustable to selectively prevent the printing on any one or more sections in the material in the machine.

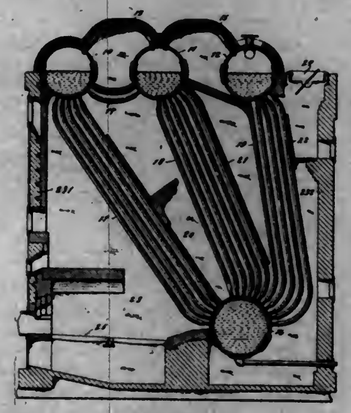
1,753,266. STEAM BOILER AND ECONOMIZER AND METHOD OF OPERATING THE SAME. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 25, 1922. Serial No. 546,671. 18 Claims. (Cl. 122—406.)

1. The method of operating a steam boiler and its economizer connected thereto, which consists in normally feeding water forwardly through the economizer to the boiler without circulation, and in circulating the water by gravity between the boiler and enonomizer in the direction opposite to that in which it normally flows during a layover period when the temperature of the gases passing over the economizer is subnormal and while the water in the boiler is hot.



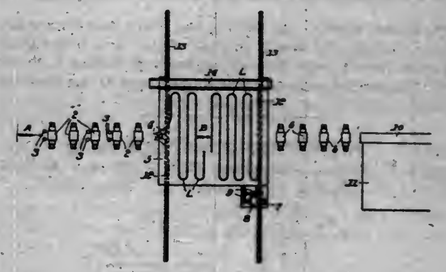
2. In combination, a steam boiler, an economizer, a feed-water inlet connected to the economizer and a connection between the boiler and the economizer arranged to permit water from the feed-water inlet to pass through the economizer into the boiler in the normal operation of the boiler, and valved connections between the boiler and the economizer, said connections operating when the valved connections are open, to permit hot water from the boiler to flow from the boiler to and through the economizer and back to the boiler in a direction the reverse of the flow of water in the normal operation of the system, the connections between the economizer and the boiler being made to the boiler below the normal water level therein.

1,753,267. STEAM BOILER. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Dec. 19, 1924. Serial No. 756,867. 3 Claims. (Cl. 122—302.)



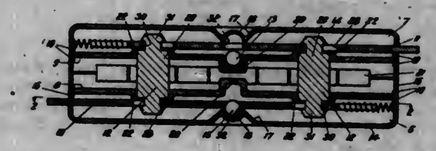
1. In a high pressure steam boiler, two spaced drums each provided with openings, a bank of water tubes the ends of which are adapted to enter the openings of the respective drums in a plurality of circumferential and longitudinal rows, the portions of the drums entered by said tubes being of substantially uniform thickness, each tube being reduced in external diameter at one end at least where it enters the drum sufficient in extent lengthwise of the tube to permit sufficient movement of the reduced end of the tube through its opening in the associated drum to permit of the insertion of the opposite end of the tube in its opening in the associated drum and its removal therefrom, the intermediate portions of the tubes being relatively large to provide a relatively small gas flow area therebetween.

1,753,268. ROLLING MILL. LANE JOHNSON, Ingram, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 21, 1928. Serial No. 294,373. 2 Claims. (Cl. 80—46.)



1. In combination with spaced-apart mill stands arranged in alinement, a traveling support between the mill stands, the support being movable out of the path of the material issuing for one of the mill stands, and a run-out trough adapted to lie between said mill stands and extend from one to the other thereof, the run-out trough being movable into alinement with the mill stands substantially simultaneously with the movement of the traveling support out of alinement therewith.

1,753,269. RECEPTACLE FOR RAZOR BLADES. FREDERICK W. KIRSTEN, Blue Island, Ill. Filed July 16, 1927, Serial No. 206,298. Renewed Nov. 6, 1929. 5 Claims. (Cl. 206—16.)

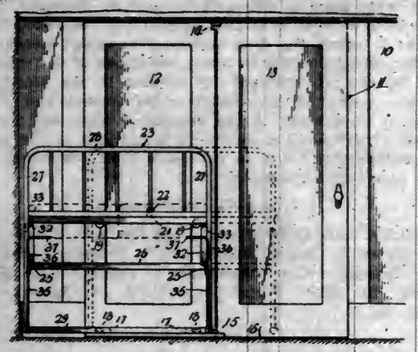


1. In a receptacle for safety razor blades two box like halves, means common to said halves for holding safety razor blades in a certain position in said receptacle, and means in each half for engaging said first mentioned means and for preventing accidental movement of said halves relative to each other.

1,753,270. DOOR BED. CHARLES F. KOLB, Chicago, Ill. Filed June 27, 1924. Serial No. 722,668. 1 Claim. (Cl. 5—171.)

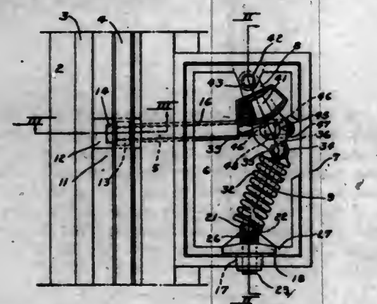
In a structure of the kind described, the combination of a support and a frame member laterally movable thereon, a pair of spaced apart grooved rollers fixed to the support, a downwardly facing channel member secured to

said frame member and having one of its flanges engaged with said grooved rollers, a device on said support between said rollers and engaging with the top web of



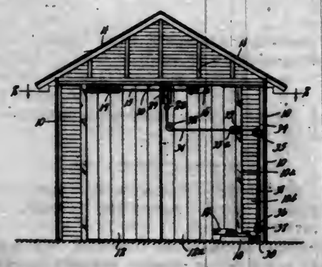
said channel member for holding the frame member against lateral tipping, and means on said support and frame member respectively near the bottom ends providing a thrust receiving bearing between said support and frame member.

1,753,271. SWITCH-THROWING MECHANISM. CLARENCE C. KOENS, Johnstown, Pa. Filed May 4, 1927. Serial No. 188,664. 11 Claims. (Cl. 246—318.)



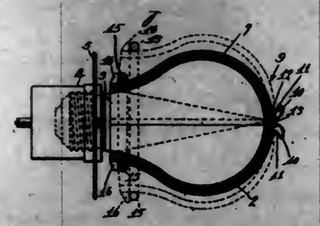
1. In a spring toggle mechanism, a frame comprising a guide, a toggle element, supporting means for the toggle element cooperating with said guide and having a detent therein, and a pin cooperating with said detent and a portion of said supporting means for preventing relative movement therebetween.

1,753,272. DOOR-OPERATING DEVICE. EMIL KROHN and VICTOR A. LILLQUIST, Duluth, Minn., assignors of one-third to Axel W. Bjorklund, Minneapolis, Minn. Filed June 27, 1927. Serial No. 201,902. 5 Claims. (Cl. 268—62.)



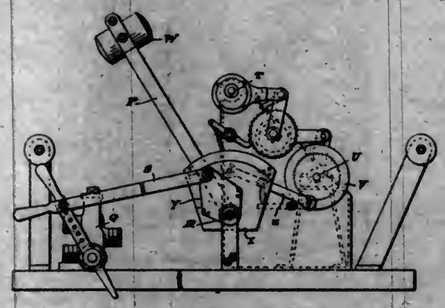
1. A door operating device having in combination with a wall, and a pair of oppositely swinging doors hinged thereto, a bracket secured to one of said doors and projecting inwardly therefrom, a link connecting said bracket to the other door, a bracket secured to said last mentioned door, a guide member extending through said wall adjacent the pintle axis of said last mentioned door and having its inner end curved toward the free end of said doors when in closed position, said guide member having a guide channel therein, a flexible member comprising freely revoluble spaced rollers connected together by freely swinging links extending through said guide channel, a bracket secured to said last mentioned door having an end thereof extending into said guide channel and secured to one end of said flexible member, and manually operated means disposed at some distance from said door at the outer side thereof connected to said flexible means for pulling and pushing upon the same for closing and opening said doors respectively.

1,753,273. LAMP HOOD FOR ELECTRIC LAMPS. WILLIAM L. LAIB, Oak Park, Ill. Filed July 21, 1926. Serial No. 123,979. 1 Claim. (Cl. 240—100.)



In a lamp hood of the class described, the combination of a pair of cup-shaped hood members formed of glass of a suitable color and adapted to permit the passage of rays of light therethrough, said pair of hood members having peripheral marginal portions normally in abutting engagement with each other, said pair of hood members forming a sectional lamp hood having an open end and a closed end, for enclosing a lamp bulb, an integral hinge member on and projecting from the end marginal portion of each of said cup-shaped hood members respectively, at the closed end of the hood said projecting hinge member being of identical form and having diverging outer end portions normally spaced apart and adapted to permit relative movement of said cup-shaped hood members, a metallic connecting hinge member on and forming a flexible connection between said hinge members, and resilient connecting means on and adapted to form a yielding connection between the opposed open end portions of said cup-shaped hood members.

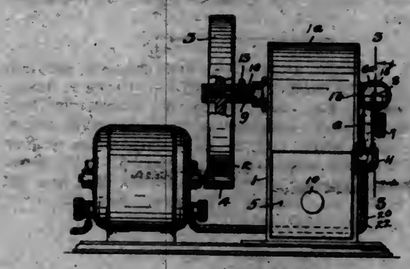
1,753,274. VALVE-OPERATING MECHANISM FOR WATER-GAS PLANTS. JAMES LOWE, Auckland, New Zealand. Filed Apr. 8, 1927, Serial No. 181,980, and in New Zealand Jan. 20, 1927. 5 Claims. (Cl. 137—144.)



1. A mechanism for periodically controlling the automatic operation of a gas generating plant including, in

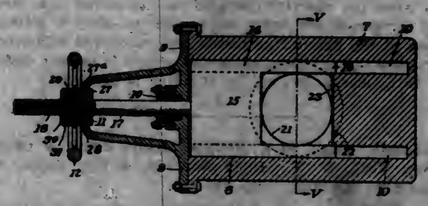
combination, a control valve, a pivotally mounted lever connected thereto, reduction gearing including pawl and ratchet mechanism for actuating said lever for a portion of its movement, and a weight carried by said lever for actuating the same for the remaining portion of its movement to effect a rapid opening and closing of said valve at periodic intervals.

1,753,275. ATTACHMENT FOR PENCIL SHARPENERS. OLOF A. NARVESUD, Minneapolis, Minn. Filed Oct. 11, 1926. Serial No. 141,001. 2 Claims. (Cl. 200—52.)



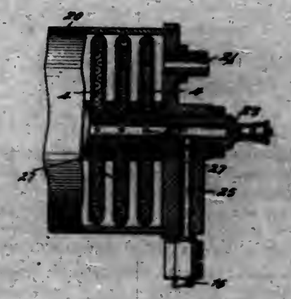
1. An attachment for a motor driven pencil sharpener having an opening in which the pencil is inserted to be sharpened, comprising a bracket having a barrel portion, an arm extending from said barrel portion having an apertured lug, means extending through said lug for attaching said bracket to said sharpener, said bracket having a portion extending laterally from said barrel portion, a plunger slidably mounted in said portion and connected to one terminal of the motor, a member disposed in said portion and connected to the other terminal of the motor and spaced slightly from said plunger, a coiled spring disposed in said portion normally holding said plunger in position spaced from said last mentioned member, said plunger projecting into said barrel whereby when a pencil is inserted in said barrel said plunger will be moved longitudinally and will engage said last mentioned member to close the motor circuit and start the motor and said circuit will be opened when said pencil is withdrawn.

1,753,276. VALVE FOR WELLS. THOMAS QUINN and JOHN F. AITES, Rimersburg, Pa. Filed June 15, 1927. Serial No. 198,910. 2 Claims. (Cl. 251—59.)



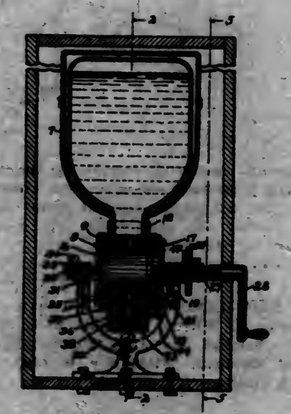
1. A valve structure comprising a valve gate having a guiding projection thereon, substantially an entire outer edge of the gate and projection lying in the same plane, said structure having a chamber therein for the reception of the valve gate, and a pocket formed in a wall of the chamber and extending in the direction of movement of the valve gate, said projection sealing the pocket against the admission of dirt when the valve gate is in its open position.

1,753,277. PREPARED AUTOMOTIVE-ENGINE FILTER CLOTHING. ERNEST J. SWENTLAND, Hazleton, Pa. Filed Dec. 6, 1923. Serial No. 678,897. 10 Claims. (Cl. 210—204.)



1. A prepared filter, for use with an internal combustion engine, comprising a filter element having a preformed bed of filter aid rubbed into the filtering surface thereof.

1,753,278. LIQUID-DISPENSING APPARATUS. ROBERT WESTBERG and ERZA TIMM, Oakland, Calif., assignors of one-third to Paul R. Lindale, San Francisco, Calif. Filed May 2, 1925. Serial No. 27,403. 5 Claims. (Cl. 221—106.)

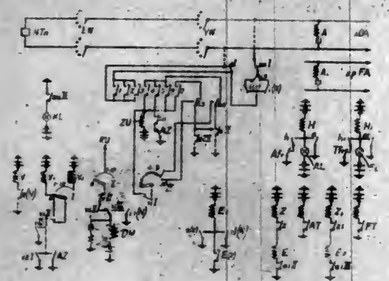


4. In a liquid vending apparatus, a container for liquid, a cock provided with a horizontally disposed hollow vending plug rotatable about its axis and carrying said container, a shaft on said plug, and a fixed support engaging said shaft whereby said cock and container may be rotated about said valve axis to a position in which a major portion of said container is below the level of said valve axis.

1,753,279. TELEPHONE SYSTEM. OTTO ANDERS, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed July 11, 1927, Serial No. 204,681, and in Germany July 23, 1926. 13 Claims. (Cl. 179—27.)

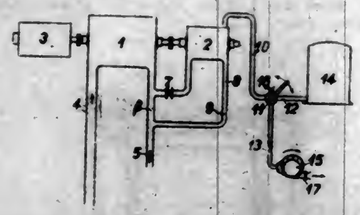
1. In a telephone system, an automatic switch, a calling device for controlling the operation of said switch,

means for connecting said calling device to said switch, and means operative independent of the operation of said switch and responsive to a setting operation of said



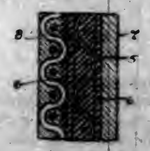
calling device under certain predetermined conditions, providing said setting operation is to a particular position, for preventing the operation of said switch.

1,753,280. COMPRESSOR APPARATUS. ADOLF BAUMANN, Baden, and ADOLF MEYER, Kusnacht, near Zurich, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Feb. 19, 1926, Serial No. 89,272, and in Germany Apr. 6, 1925. 12 Claims. (Cl. 230—1.)



1. Compressing apparatus comprising the combination with a rotary compressor, of a vacuum chamber, means for closing the compressor against influx of air, and means for putting the compressor into communication with the vacuum chamber.

1,753,281. BAG MANUFACTURE. EDWIN O. BARSTOW and ARTHUR C. WHITE, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corportion of Michigan. Filed Nov. 9, 1925. Serial No. 67,785. 2 Claims. (Cl. 229—55.)



2. A moisture-proof bag made from a sheet including an intermediate layer of scrim impregnated with pitch, and a layer of burlap and one of paper, not thus impregnated, adherent to the outer and inner sides, respectively, of said intermediate layer.

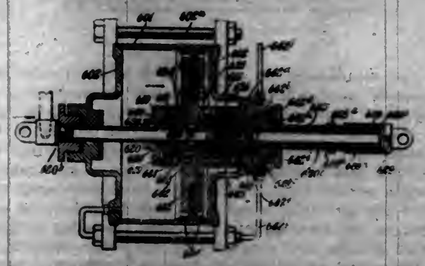
1,753,282. TRAFFIC-SIMULATING TOY. SAMUEL I. BERGER, Newark, N. J. Filed July 14, 1928. Serial No. 292,662. 12 Claims. (Cl. 104—173.)

1. A toy of the class described, including a platform having a slot therein, movable members on the platform, an endless cable beneath the platform, a pair of pulleys around which the cable runs, means connecting the mov-



able members to the cable through said slot, means for driving one pulley, and yielding means mounting the other pulley.

1,753,283. POWER ACTUATOR FOR BRAKE MECHANISM OF AUTOMOTIVE VEHICLES. CALEB S. BRAGG, Palm Beach, Fla., and VICTOR W. KLIESRATH, Port Washington, N. Y., assignors to Bragg-Kliesrath Corporation, Long Island City, N. Y., a Corporation of New York. Original application filed Mar. 5, 1925, Serial No. 13,183. Divided and this application filed Aug. 30, 1926, Serial No. 132,868. Renewed June 22, 1928. 15 Claims. (Cl. 121—41.)



2. In a power actuator, the combination with a cylinder closed at both ends, a piston in said cylinder, controlling valve mechanism for the actuator located in said piston, and means for connecting the cylinder with a source of suction and with a source of higher pressure fluid under the control of said valve mechanism, of an auxiliary suction passage connected with the cylinder on both sides of the piston, an auxiliary valve controlling said auxiliary suction passage, and provided with a part extending into the cylinder in position to be engaged by the piston when in retracted position, to open and hold said auxiliary valve in open position, a valve actuating part extending through the piston, an operator operated device connected therewith, and a retracting spring interposed between the valve actuating part and the piston, and so calibrated that when the operator operated part is moved in a direction to operate the valve mechanism to effect a working stroke of the piston, the piston will be moved sufficiently to release the auxiliary valve and permit it to seat, before the valve mechanism of the actuator is actuated.

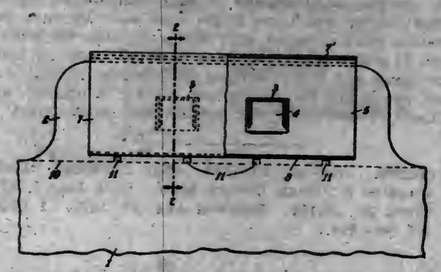
1,753,284. HEEL FOR SHOES. DAVID BERTRAM CROPP, New York, N. Y. Filed Nov. 21, 1927. Serial No. 234,841. 2 Claims. (Cl. 36—35.)



1. In an article of foot wear, a skeletonized heel composed of compressible material and comprising an open U-shaped member conforming to the desired contour and provided with a free open space within the limits of said member, the inner surface of said open U-shaped member being beveled from the shoe-contacting face to

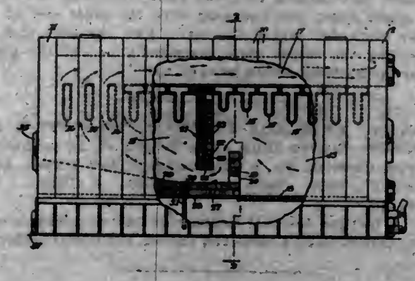
the wear or tread surface, the surface of said bevel facing the wear or tread face of said heel and of such a pitch that the compression and expansion of the material of said member expels any accumulation of matter from within the open portion of said U-shaped member, and one end of said open U-shaped member being prolonged and extended beyond the other end of said member to produce at one end of the heel an arch-supporting projection.

1,753,285. INDEX TAB FOR RECORD GUIDES. ELMER W. DAVIS, Newton, Mass., assignor, by mesne assignments, to Remington Rand Inc., Buffalo, N. Y., a Corporation of Delaware. Filed Jan. 9, 1929. Serial No. 331,197. 13 Claims. (Cl. 129—16.8.)



1. A record guide comprising a body member having a tab extending therefrom, a clip secured to said tab, and a transparent sheath disposed on said clip and cooperating therewith to form pockets to receive index cards or inserts, said clip and sheath lying outside the general outline of said body member.

1,753,286. FURNACE. JAMES RUSSELL DOHERTY, Oak Park, Ill. Filed Aug. 1, 1927. Serial No. 209,861. 2 Claims. (Cl. 122—225.)



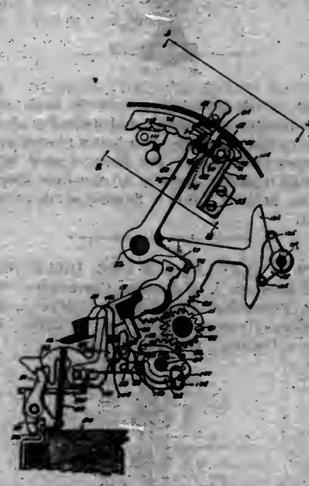
1. In a furnace, a combustion chamber in the front portion thereof, a grate in said chamber, a bridge wall upstanding from the rear of said grate, a water curtain rearwardly of said bridge wall and depending therebelow to provide a baffle, air conducting means associated with said water curtain and discharging air therefrom below the top level of said bridge wall, and a secondary combustion chamber to the rear of said water curtain and said bridge wall, there being apertures in said bridge wall beneath the lower level of said water curtain to admit the passage of combustion vapors directly to said secondary combustion chamber.

1,753,287. METHOD AND MEANS FOR APPLYING RADIUM EMANATION. GIOACCHINO FAILLA, New York, N. Y. Filed May 15, 1925. Serial No. 30,450. 6 Claims. (Cl. 174—177.)



1. Apparatus for applying radium emanation comprising a capillary tube having walls containing a sufficient quantity of heavy metal to reduce the primary beta radiation with another material to reduce the secondary beta radiation while passing the hard gamma radiation, the ends of said tube being sealed to retain radium emanation in the bore of the tube.

1,753,288. CASH REGISTER. FREDERICK L. FULLER, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Original application filed Nov. 19, 1918, Serial No. 263,125, and in Great Britain Sept. 12, 1919. Divided and this application filed Apr. 27, 1926. Serial No. 104,989. 35 Claims. (Cl. 235—130.)

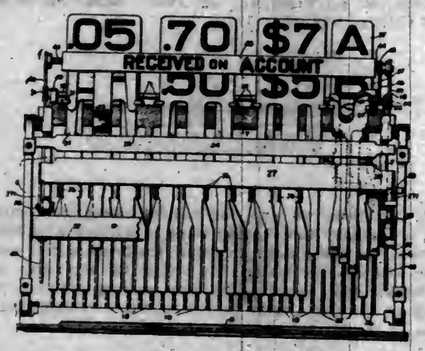


1. In a cash registering machine, of the type having a cash drawer and means for releasing the drawer when the machine is operated, a control lever and means connected thereto so constructed and arranged that when the lever is in one position the machine may be operated when the drawer is open and when the lever is in the second position the machine is locked against operation until the drawer is closed, while movement of the lever to a third position effects the opening of the drawer.

1,753,289. CASH REGISTER. FREDERICK L. FULLER, Ilion, N. Y., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Original application filed Nov. 19, 1918, Serial No. 263,125, and in Great Britain Sept. 12, 1919. Divided and this application filed Apr. 28, 1926. Serial No. 105,065. 24 Claims. (Cl. 235—28.)

1. In a cash register, the combination with a plurality of amount keys, indicators therefor, a series of special

keys, each operable in conjunction with a plurality of said amount keys, and a plurality of indicators operated by the



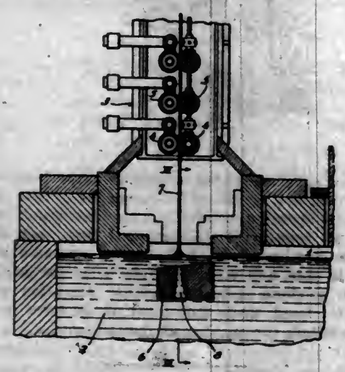
special keys for obscuring and exposing the amount indicators and designating which special key has been operated.

1,753,290. TOOTHBRUSH. LYNUS O. GRAVES, Tabernash, Colo. Filed Nov. 30, 1928. Serial No. 322,658. 3 Claims. (Cl. 15—135.)



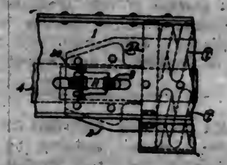
1. A tooth brush comprising a brush back; two parallel rows of bristles arranged longitudinally of said back, the bristles in the opposite rows being placed at an angle so as to cross each other; the back of said brush being provided with a cavity opening to the face thereof under said crossing bristles; and a flexible strip covering said paste cavity.

1,753,291. APPARATUS FOR DRAWING SHEET GLASS. HOWARD L. HALBACH, Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Apr. 4, 1928. Serial No. 267,241. 4 Claims. (Cl. 49—17.)



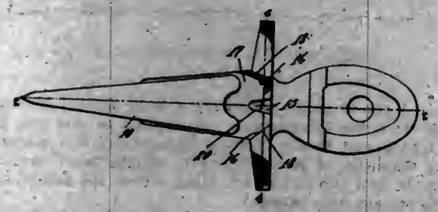
4. The combination with a drawing tank communicating at one end with a melting tank and a machine for drawing a glass sheet continuously from the drawing tank with the plane of the sheet transverse to such drawing tank, of a draw bar extending transversely of the bath beneath the sheet with a longitudinal vertical slot therethrough, said bar having its top surface inclined upwardly from the side of the bar remote from the melting tank to its other side.

1,753,292. POSITIVELY-LOCKED COUPLER CROSS KEY. ALBERT P. HOUSHOLDER and HENRY M. KELLY, St. Louis, Mo. Filed Aug. 27, 1926. Serial No. 131,870. 2 Claims. (Cl. 85—7.)



1. A locking device for a coupler cross key, said cross key being provided with an aperture near one of its ends, said locking device comprising a rigid member adapted to seat in said aperture, and having portions adapted for location longitudinally of said aperture at opposite sides thereof which are longer than said aperture, said member being provided with bifurcated ends, the arms of each of said ends being adapted to extend above and below the upper and lower surfaces, respectively, of said cross key, and means for locking said member in position with respect to said cross key, substantially as described.

1,753,293. GUARD FINGER AND LEDGER PLATE. CHARLES F. HOVER, Conrad, Mont. Filed June 5, 1925, Serial No. 35,194. Renewed Aug. 27, 1929. 1 Claim. (Cl. 56—311.)



A guard finger having a ledger plate seat having rearwardly converging underbeveled side walls, a ledger plate on the seat having its rear end formed with rearwardly converging and beveled side walls engaged beneath the side walls of the seat, said rear end of the ledger plate having a notch the innermost portion of which normally lies forwardly of the seat to permit introduction of a ledger plate prying tool, and resilient means carried by the guard finger and engaging with the other end of the ledger plate for urging the latter into the seat and for projecting the ledger plate rearwardly out of the guard finger upon lifting action by such tool.

1,753,294. FUEL FOR INTERNAL-COMBUSTION ENGINES. ROBERT JOHN, Long Branch, N. J., assignor to Arjon Chemical Co., a Corporation of New Jersey. Filed July 27, 1926. Serial No. 125,830. 4 Claims. (Cl. 44—9.)

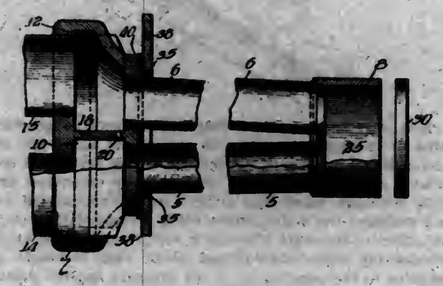
1. A fuel for internal combustion engines comprising a hydro-carbon having dissolved therein antimonytrichloride.

1,753,295. METHOD OF FORMING RADIATOR ELEMENTS. JOHN KARMAZIN, Detroit, Mich. Filed May 7, 1925. Serial No. 28,538. 8 Claims. (Cl. 113—118.)



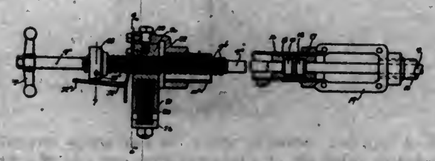
1. The method of making a radiator comprising the step of forming tubular projections from and integral with a metal strip whose width is approximately equal to the length of a finished element by forming successive depressions at each side of the center in diverging directions and cutting said strip into radiator elements of the same width as the thickness of the radiator to be formed.

1,753,296. HEATER COIL. CHARLES C. MCDERMOTT, Chicago, Ill. Filed Mar. 10, 1926. Serial No. 93,776. 1 Claim. (Cl. 22—203.)



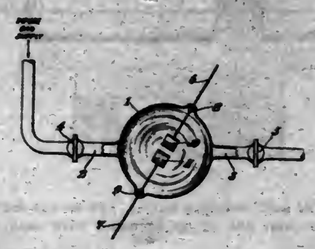
The method of joining a tube to a head member which comprises supporting the tube as an insert in the mold for the head member, melting the material of the head member at a temperature below but near the melting temperature of the material of the tube, pouring the molten head member material into the mold and directly upon the inserted part of the tube and casting the head member directly upon the tube to produce a substantially integral and substantially homogeneous joint between the head member and the tube without distorting the interior of the tube.

1,753,297. THROTTLE-OPERATING MECHANISM. NEAL T. MCKEE, Bronxville, N. Y., assignor to American Throttle Company, Inc., New York, N. Y. Filed Sept. 30, 1927. Serial No. 223,041. 8 Claims. (Cl. 137—139.)



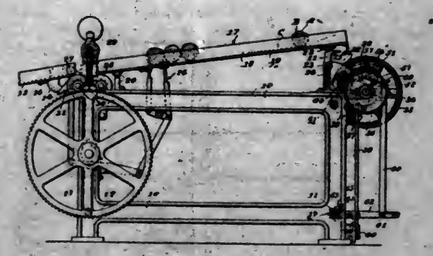
1. In a locomotive having valve means located at the smoke-box end of the boiler to control steam flow from the boiler, means to operate said valve means comprising in combination a rod for operating said valve means and extending back from it to the cab, a member associated with said rod and extending from a point near the front end of the boiler to the cab, its front end being rigidly secured relatively to the boiler and its remaining portions being free to expand and contract independently of the boiler, the rear portion of the rod being jointed to the main portion to permit rotary but not longitudinal movement between the two, said rear portion being provided with a screw thread and means to rotate it, the member having a corresponding segmental thread less than 180 degrees; and resilient means normally tending to keep the two threads in engagement and when compressed to permit their disengagement and a consequent free longitudinal movement of the rod.

1,753,298. PURIFYING RARE GASES. RICHARD E. MESSER, Jersey City, N. J., assignor to New Process Metals Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 3, 1927. Serial No. 158,580. 6 Claims. (Cl. 204—31.)



1. Apparatus for purifying rare gases having in combination a container holding the gases during purification, two misch metal electrodes therein and means causing an electric discharge to take place in the gases in the container between said electrodes.

1,753,299. RUBBER-TUBE-TRIMMING MACHINE. WILLIAM NICHOLAS, Bridgeport, Conn., assignor to The Black Rock Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Original application filed July 18, 1923, Serial No. 652,267. Divided and this application filed June 5, 1925. Serial No. 35,144. 20 Claims. (Cl. 164—69.)

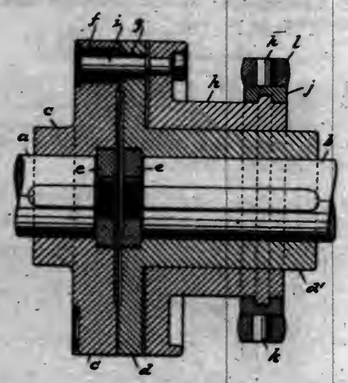


1. In a trimming machine, means for trimming the ends of rubber tubes or the like upon mandrels, and including a pair of cutting knives, a rotatable cylindrical support adapted to support and rotate said tubes in epicyclic rolling contact therewith, means adapted to support the ends of said mandrels, and having adjustable means adapted to receive different sized mandrels, and means for moving said supporting means about the axis of said roll to move said tubes into and out of relation with said cutting knives.

1,753,300. DISCONNECTING COUPLING. ARVID PATTERSON, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a Corporation of New Jersey. Filed Mar. 5, 1927. Serial No. 172,940. 2 Claims. (Cl. 192—67.)

1. A coupling for rotary members comprising coupling halves fixedly carried by said members respectively and provided with apertures arranged to be brought into

alignment, a flexible bushing in the aperture in one of said coupling halves, a pin slidably mounted in the aperture

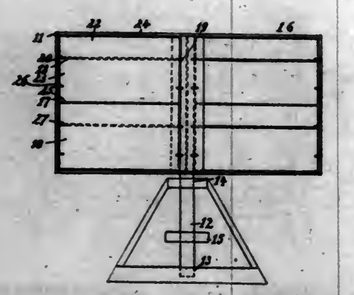


in the other of said coupling halves, and means for sliding said pin into and out of engagement with said flexible bushing.

1,753,301. TESTING METALLIC COATINGS. KARL PITSCHNER, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Dec. 22, 1926, Serial No. 156,510. Renewed May 16, 1928. 13 Claims. (Cl. 23—230.)

9. A process of producing a record of the presence of holes in material in sheet form on a base of different material which comprises applying to said sheet a vehicle detachable therefrom and carrying a substance reactive to one of said materials.

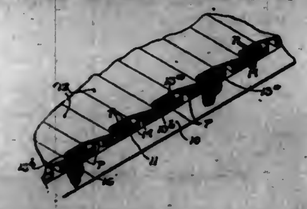
1,753,302. WIND ROTOR. KARL RAMM, New Britain, Conn. Filed Sept. 21, 1926. Serial No. 136,824. 3 Claims. (Cl. 170—27.)



1. In a wind rotor, a vane mounted for swinging between the vertical wind-resisting position and the horizontal inactive position and having a supporting pintle at the outer end, a strut structure opposed to the outer edge portion of said vane and provided with a bearing for said pintle, the part of said strut structure on the wind or air pressure contacting face of said vane being relatively extended for the purpose of enhancing the wind or air pocket effect of the strut structure in cooperation with the adjacent edge portion of the vane.

1,753,303. ROOFING. RICHARD S. REYNOLDS, Louisville, Ky., assignor to United States Foil Company, Louisville, Ky. Filed Oct. 26, 1925. Serial No. 64,887. 1 Claim. (Cl. 108—17.)

A roofing strip adapted to be made in rolls comprising a pliable but relatively thick treated fabric body portion, and a relatively thin metallic sheet of the same width as said body and adhering to the surface of said body portion, said body portion and said sheet having parallel longitudinal complemental scores providing edge sections adapted to be articulated to interlock with the adjacent articulated edge sections of strips of like material to effect a weatherproof joinder therebetween, the texture of the laminated and scored strip being such that when fasteners are being inserted through said overlapping and interlocking edge sections, said body portion may be unarticulated or in angular position in relation to said edge section so as to uncover the interlocked edge section of contiguous strips, the material of said body extending over such fasteners when said strip is in its articulated and laid position, the body portion being treated with a material effective to create a hermetic seal of said strips at the interlocking edges thereof and about said fasteners responsive to the application of the pressure applied thereto during laying.

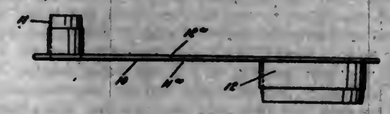


1,753,304. WALL BED. NEIL SINCLAIR, Oakland, Calif., assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif., a Corporation of California. Filed July 18, 1927. Serial No. 206,483. 18 Claims. (Cl. 5—170.)



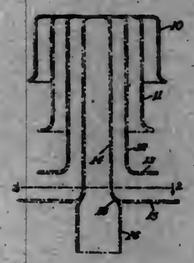
1. A wall bed, means by which the wall bed is vertically pivoted to swing out of a doorway from one side of a wall to the other side, a door for said doorway, means by which the door is carried by the bed structure and is laterally shiftable thereon.

1,753,305. TIRE-FLAP HOLE MEASURING AND CUTTING PUNCH. HERBERT J. SPALDING, Akron, Ohio. Filed Mar. 8, 1928. Serial No. 260,109. 1 Claim. (Cl. 164—80.)



A device for locating and punching a valve hole in a strip of material to form a tire flap, comprising a flat shank, and a punch mounted on the shank adjacent one end thereof, said punch projecting from one face of the shank, said shank being provided with a marking on the other face thereof for locating the punch with respect to the end of the strip.

1,753,306. METAL WHEEL MANUFACTURE. ERNEST H. ARNOLD, Cleveland, Ohio. Filed June 22, 1925, Serial No. 38,718. Renewed Aug. 31, 1929. 10 Claims. (Cl. 29—174.)



1. The method of forming a tubular metal spoke for a vehicle wheel which comprises shaping a thin metal disc by a series of successive drawing operations into a product comprising a cylindrical body having an open end surrounded by a peripheral flange, and a closed end, deforming said flange into a hollow, prismatic extension of said cylinder, tucking in the stock at the sides of the said prismatic extension lateral of the wheel, along lines longitudinal of the spoke while supporting the said extension within and without the same, pressing the sides of the tucks together to thereby reduce the hub end of the body and reinforce it without deforming the sides thereof.

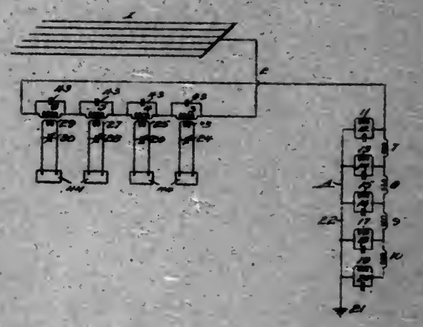
1,753,307. METAL SPOKE AND ITS MANUFACTURE. ERNEST H. ARNOLD, Cleveland, Ohio. Filed Dec. 10, 1925, Serial No. 74,509. Renewed Aug. 30, 1929. 11 Claims. (Cl. 29—174.)



1. A tubular metal wheel spoke having an open-end enlarged extension head rectangular in cross section, the corners of the head being reinforced by inturned plaits of its own material.

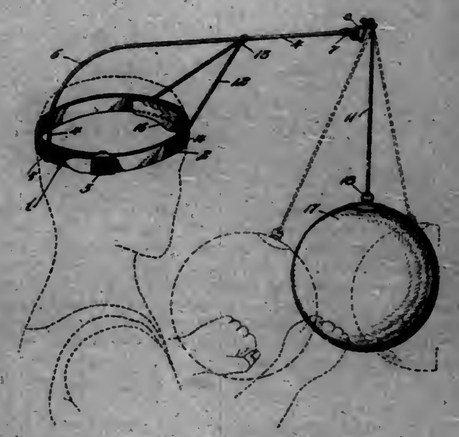
6. The method of making a metal vehicle wheel spoke comprising, providing a tubular body with an open-end enlarged extension therefrom on an axis in alinement with that of the said body, tucking in the material of the said extension on four lines spaced in pairs in said extension longitudinal of the spoke and to varying depth decreasing from the open end outwardly, and exerting inward pressure at the external surfaces of the extension between the lines of each pair and between the pairs and on substantially longitudinal planes to result in a hub end of the spoke having uniform width transverse of the wheel but tapered inwardly in the plane of the wheel.

1,753,308. RADIO RECEIVING SYSTEM. LOUIS COHEN, Washington, D. C., assignor, by mesne assignments, to Federal Telegraph Company, a Corporation of California. Filed Oct. 2, 1925. Serial No. 60,120. 4 Claims. (Cl. 250—9.)



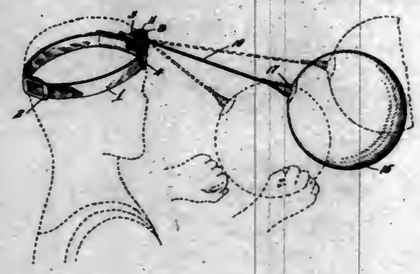
1. In a multiplex radio receiving system comprising an antenna-ground circuit, a circuit system connected in series with the said antenna, said circuit system consisting of a number of sections, each section comprising a series of inductance and a pair of tuned circuits, each tuned circuit including an inductance shunted by a condenser, said tuned circuits all being connected together and disposed in series in said antenna and ground circuit to effect a multiple tuning of the antenna, a plurality of separate receiving circuits associated with the said antenna and independent of the aforesaid sections, each of said receiving circuits being adjusted for resonance for one of the frequencies within the range of frequencies for which the antenna system is tuned, and separate detectors and amplifiers associated with each of said receiving circuits.

1,753,309. EXERCISING APPARATUS. HENRY O. COSTELLO, Providence, R. I. Filed Jan. 23, 1928. Serial No. 248,817. 4 Claims. (Cl. 272—76.)



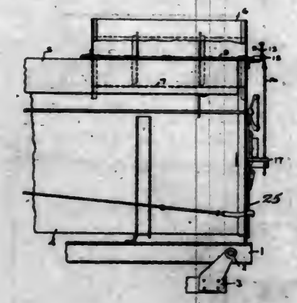
1. An exercising apparatus comprising a frame having a band to be secured to the head of the user and provided with an arm extending to a point forwardly of and above the user, and an inflated ball resiliently supported from said forwardly extending arm.

1,753,310. EXERCISING BALL AND SUPPORT THEREFOR. HENRY O. COSTELLO, Providence, R. I. Filed Jan. 3, 1929. Serial No. 330,098. 7 Claims. (Cl. 272—76.)



7. In a device of the character described, a flexible head-band adapted to be secured to the head of the user, a longitudinally extensible elastic member, an inflated ball secured to one end of said longitudinally extensible elastic member, and means for securing the opposite end of said longitudinally extensible elastic member substantially directly to the said head-band at a point above and between the eyes of the user, whereby the ball upon being struck by the user will move outwardly from the face of the user and be returned directly towards the face of the user and substantially along the line of vision of the user through longitudinal elongation and contraction of said longitudinally extensible elastic member.

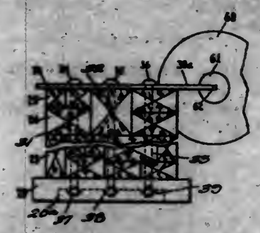
1,753,311. PORTABLE CONCRETE MIXER. REGINALD A. DADDISMAN, San Francisco, Calif., assignor to Barrymore Concrete Mixer Corporation, San Francisco, Calif., a Corporation of California. Filed Nov. 7, 1927. Serial No. 231,414. 3 Claims. (Cl. 88—73.)



1. In a concrete mixer of the portable type, an open top mixing trough longitudinally arranged on a motor truck, a cement bin only mounted above one end of and extending across the trough leaving the remainder of the trough unobstructed and readily available for the dumping therein of rock and sand, and means for discharging the contents of the cement bin into the trough, said trough provided with a discharge gate for closing during the mixing of concrete therein.

1,753,312. INTERNALLY-CLAMPED COMPOSITE PIEZO-ELECTRIC ACOUSTIC DEVICE. ALEXANDER MCLEAN NICOLSON, New York, N. Y., assignor, by mesne assignments, to Federal Telegraph Company, a Corporation of California. Filed Jan. 11, 1927. Serial No. 160,359. 7 Claims. (Cl. 179—110.)

1. An acoustic device comprising, in combination, a composite piezo-electric device comprising a plurality of chemically and optically similar piezo-electric crystals, means for clamping said crystals in a single entity, said clamping means passing internally through said plurality of crystals, said crystals being so arranged that piezo-



electric torsional vibrations of said individual components may be integrated, and an acoustic diaphragm secured to said composite device at a point of maximum piezo-electric response in a manner such that torsional vibration of said device effects vibrations of said diaphragm.

1,753,313. NONINTERLINKING NUT-LOCK WASHER. HARRY G. NORWOOD, Baltimore, Md., assignor to The Positive Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed May 8, 1928. Serial No. 276,058. 3 Claims. (Cl. 151—36.)



3. In a spring lock washer having a transverse split along a diameter of the washer and the ends, adjacent the split, offset a predetermined amount in opposite directions to give the spring effect, said ends being tapered and ending in enlarged portions which are bent bodily at the end of the taper in a direction opposite to that of the offset so that the ends overlap or intercept the opening between the ends of said offset portions, each of said enlarged portions having gripping edges on opposite sides of the washer.

1,753,314. HAIRDRESSING DEVICE. LOUIS M. NOTO, Chicago, Ill. Filed Nov. 28, 1928. Serial No. 322,469. 4 Claims. (Cl. 132—38.)



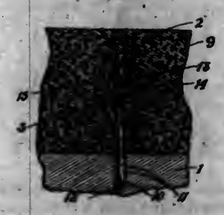
1. The herein described hair dressing device comprising an inherently resilient split clamping band and a longitudinally extending elastic strap element detachably secured cooperatively on the outer face of said band and being constantly under tension and normally in yieldable contact throughout with said band when applied.

1,753,315. VANITY CASE. GASTON PARENT, Paris, France. Filed Feb. 2, 1929. Serial No. 337,129. 6 Claims. (Cl. 132—83.)



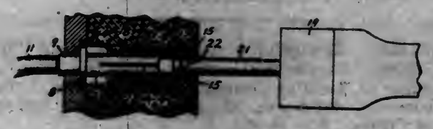
6. A vanity case comprising a rear portion having a partial lower front wall, a main compartment connected to said partial wall, said main compartment being held perpendicular to said rear portion, an insert located in and connected to said main compartment, a cover hingedly connected to said main compartment, guide flanges connected to the underside of said main compartment, a lower slidable compartment having means adapted to cooperate with said guide flanges, said lower compartment having a lateral partition near the rear wall thereof to form a pocket for holding a receptacle, a lipstick receptacle adapted to be located in said pocket, one of the side walls of said lower compartment having an opening adapted to permit the entry of said receptacle, said lipstick receptacle having a longitudinal slot and a lipstick holder slidably mounted therein, said holder having a guide pin projecting through said slot, the bottom wall of said lower compartment having a recess adapted to receive said pin, the bottom of said lower compartment being substantially flush with the bottom of said rear portion, the said cover when in the closed condition being substantially flush with the top of said rear portion.

1,753,316. CONTRACTION-JOINT STAKE. ROBERT R. ROBERTSON, Chicago Heights, Ill. Filed May 18, 1929. Serial No. 364,166. 17 Claims. (Cl. 94—17.)



1. A contraction joint stake comprising a channel cross sectioned body cut to afford a tapered tip at one end and having the opposite end bent over upon itself and offset with a portion of the bent over section projecting beyond one side of the body portion of the stake to afford a wing member.

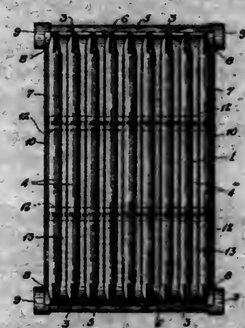
1,753,317. QUICK-BREAK SWITCH. EDWARD M. ROTHEN, New York, N. Y., assignor to Russell & Stoll Company, New York, N. Y., a Corporation of New York. Filed Dec. 2, 1926. Serial No. 152,105. 1 Claim. (Cl. 173—363.)



A switch consisting of a plug, provided with a groove therein, a fixed tube for receiving said plug, a sleeve slidable on said fixed tube, a flange on said sleeve to rengaging within said groove and a spring carried by said sleeve and tending to move the same from connection with said plug.

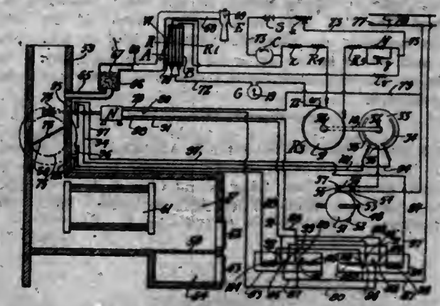
1,753,318. HEAT-EXCHANGE APPARATUS. CLARENCE E. SAFFORD, Cleveland, Ohio, assignor to Alton H. Greeley, Cleveland, Ohio. Filed May 12, 1925. Serial No. 29,680. 8 Claims. (Cl. 257—189.)

2. In a heat exchange apparatus, the combination of a pair of sides folded, bent and welded to produce parallel corrugations being substantially semi-cylindrical between their ends, the ends of said inner portions of the corrugations being curved outwardly until they constitute parallel flanges at the closed ends of said corrugations, the length of the end edges of the sides remaining the same, and trough-shaped strips united to and bridging the spaces between the flanges, the side edges of the sheets being



united and bent to form troughs which extend between the ends of said trough-shaped strips, and coupling members united to said sides at the meeting points of said troughs.

1,753,319. CONTROL OF PROPORTIONS OF COMPONENTS OF GASEOUS MIXTURES. WILLIAM R. SCHOFIELD, Jr., and ROBERT D. MILNER, Philadelphia, Pa., assignors to Leeds & Northrup Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 7, 1924. Serial No. 697,484. 12 Claims. (Cl. 236—1.)



1. A control system comprising means responsive to the thermal conductivity of a mixture of fluids, control mechanism controlled by said means, a member controlling the proportion to each other of the fluid components of said mixture, a motive device controlling said member and controlled by said control mechanism, and means for periodically interrupting the operation of said motive device.

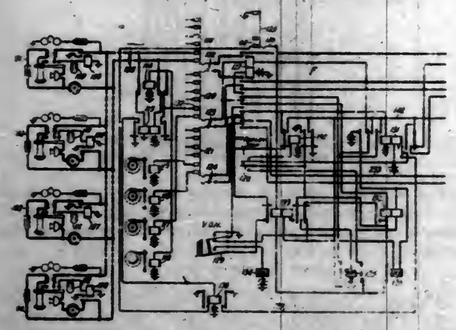
1,753,320. TOY. BERNICE SQUIER and BLANCHE SQUIER, Battle Creek, Mich. Filed Feb. 4, 1929. Serial No. 337,223. 2 Claims. (Cl. 46—45.)



2. In a toy, the combination of a body element including integral leg parts, said body element comprising a casing of flexible material and a filling of fibrous material, bearing blocks arranged at the lower end of said leg parts and enclosed within said casing and partially

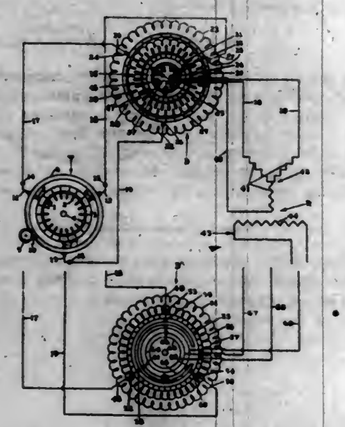
embedded in said filling material, said casing and bearing members having alined holes therein, spindles arranged through said alined holes, and rollers on the ends of said spindles.

1,753,321. TELEPHONE-EXCHANGE SYSTEM. RAY L. STOKELY, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1927. Serial No. 210,535. 10 Claims. (Cl. 179—9.)



1. In a telephone system, a party line, relays, one at each of two substations, said relays being responsive to current of opposite polarity, operating circuits for said relays, the operating circuit of one relay including one side of the line and the operating circuit of the other relay including the other side of the line, and circuits closed by said relays in operating for applying potential to the side of the line opposite the side over which the relay is operated.

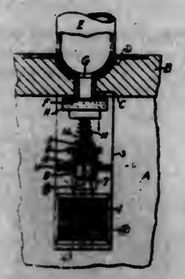
1,753,322. PHASE-CHANGING APPARATUS. HARRY L. TANNER, Brooklyn, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Dec. 9, 1924. Serial No. 754,738. 5 Claims. (Cl. 172—288.)



1. In a phase changing apparatus, a polyphase stator, polyphase leads connected therewith, a rotor having suitable windings and commutating means connected with said windings, a set of brushes connected with said polyphase leads and coacting with the commutating means so that current supplied through said leads will turn said rotor, a second set of brushes coacting with said commutating means for supplying polyphase current therefrom and means for producing relative displacement between the sets of brushes to change the phase relations between the currents supplied to and delivered by the brushes.

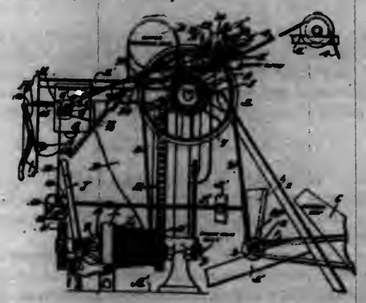
5. In a phase changing apparatus, a polyphase stator, polyphase leads connected therewith, a rotor having a plurality of windings, a plurality of commutating means severally connected to said windings, input brushes connecting said leads with said commutating means, output brushes coacting with another of said commutating means, and means for producing relative displacement between said input and output brushes to change the phase relations between them.

1,753,323. MAGNETIC ACTION FOR PIPE ORGANS. HARRY F. WATERS, St. Louis, and VERNIE ROY BROWN, University City, Mo., assignors to Magnetic Organ Action Company, University City, Mo., a Corporation of Missouri. Filed Oct. 17, 1928. Serial No. 312,986. 8 Claims. (Cl. 84—339.)



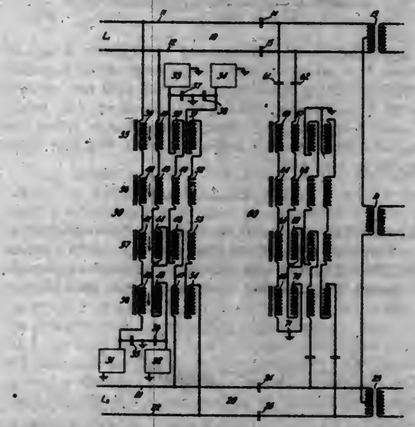
8. A valve action for pipe organs comprising an electro-magnetic element provided with a core adapted to be magnetized on energization of said electro-magnetic element, a support for said electro-magnetic element, an arm extended from said support, an armature movable through an opening formed through said arm and having a flange spaced apart from said arm, said support and said arm being magnetically connected with each other and said elements being magnetically connected to said electro-magnetic element, whereby, said support and said arm constitute the magnetic return of the electro-magnetic element and are, therefore, magnetized when the electro-magnetic element is energized, said armature on energisation of the electro-magnetic element being attracted first by said core and then by said arm attracting said flange, a rod extended from said armature, a valve mounted on said rod, and a guide member for said rod.

1,753,324. AUTOMATIC CONCRETE-MIXING MACHINE. GEORGE EVANS WEBB, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Aug. 13, 1928. Serial No. 299,318. 18 Claims. (Cl. 88—73.)



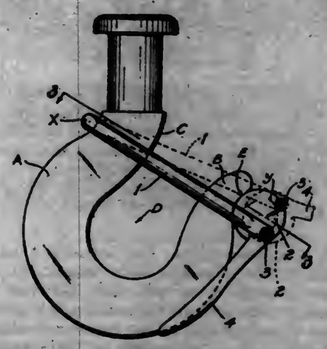
1. In a concrete mixing machine of the class described, the combination with a mixing drum and charging and discharging means therefor, of control instrumentalities for automatically causing the operation of both the said means, operative connections between the control instrumentalities and charging means whereby the operation of said control instrumentalities is rendered dependent on said charging means, and means associated with the charging means operable from the control instrumentalities for automatically initiating action of the charging means, said automatic means being movable out of operative position whereby operation of the charging means is rendered non-automatic.

1,753,325. RETARDATION-COIL SYSTEM. HORACE WHITTLE, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1928. Serial No. 250,163. 7 Claims. (Cl. 179—3.)



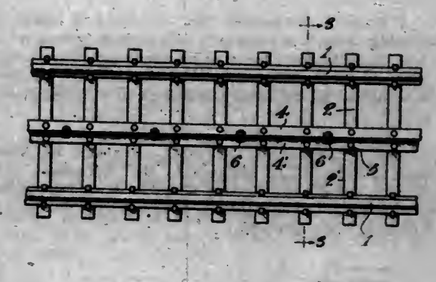
1. In a phantomed telephone system, a pair of side circuits, means for simultaneously superposing alternating current signals and direct current signals on said circuits, and means to aid in separating said signals comprising a retardation coil associated with each line wire of each side circuit, said retardation coils each having portions of their windings disposed on a plurality of common cores to produce the same flux linkage for changes of current in any of said coils, the windings on certain of said cores being reversed to neutralise inductive coupling between the coils.

1,753,326. SAFETY GUARD FOR HOOKS AND THE LIKE. JOHN C. YINGLING, Belleville, Ill. Filed Dec. 28, 1927. Serial No. 242,062. 6 Claims. (Cl. 24—241.)



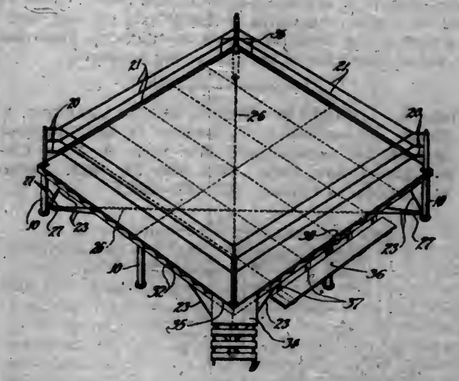
1. A safety guard for hooks and the like comprising a yoke loosely mounted on a hook and arranged to embrace portions of the jaws of said hook in a manner to cause said yoke to be removably extended across the throat of the hook to prevent accidental passage through said throat of the element engaged by the hook, a seat formed on a jaw of the hook, means comprising a cam rotatably attachd to an end of said yoke and arranged in contact with said seat whereby said yoke may be rigidly attached to said hook to prevent accidental displacement thereof with respect to the throat of the hook, and a handle associated with said cam to permit convenient movement thereof, said handle being shaped to correspond to the contour of a portion of the hook to permit said handle to contact closely with said hook portion.

1,753,327. INDUSTRIAL RAILWAY TRACK. GEORGE D. BALDWIN, New York, N. Y. Filed Apr. 28, 1929. Serial No. 357,366. 5 Claims. (Cl. 238—10.)



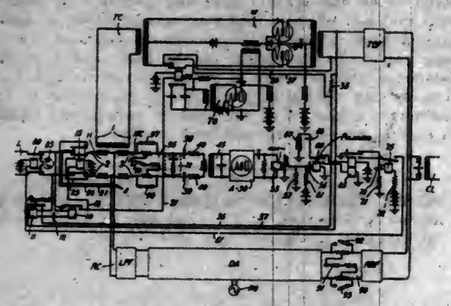
1. In a railway track a longitudinal section comprising a rail, supporting members fastened to said rail, a rigid means connecting the ends of said supporting members and adapted to be fastened to a similar member.

1,753,328. KNOCKDOWN FIGHT RING. LEW BARNES, Chicago, Ill. Filed Feb. 15, 1929. Serial No. 340,078. 7 Claims. (Cl. 272—8.)



1. A device of the kind described comprising a plurality of hollow standards having lateral flanges at their upper ends, a platform formed in knock-down sections resting upon said flanges, posts telescopically mounted in said standards and extending above said platform, and guard-ropes stretched between said posts.

1,753,329. ELECTRIC SIGNALING SYSTEM. HAROLD S. BLACK, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 16, 1927. Serial No. 219,907. 11 Claims. (Cl. 179—2.5.)



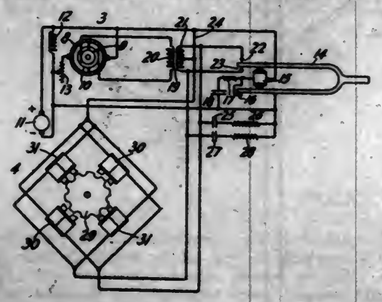
1. A network comprising four circuits and means for connecting them in biconjugate relationship, means in one of said circuits for transmitting messages therethrough to said connecting means, and signal means, responsive to call signals, in the circuit conjugate to said one circuit.

1,753,330. METERING DEVICE. HERBERT E. BRAGG, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1928. Serial No. 307,756. 3 Claims. (Cl. 171—95.)



1. In combination a direct reading voltage indicator comprising a gas filled reservoir a pair of electrodes located therein, a calibrated scale on said reservoir one of said electrodes constituting a central axis for said reservoir, and means exclusive of said electrodes for producing an initial ionization of the gas in said reservoir.

1,753,331. CONSTANT-SPEED DRIVE. ALLISON A. CLOKEY, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,463. 4 Claims. (Cl. 172—293.)



2. A device to be driven at a constant speed with minimum hunting in combination with driving means comprising a driving machine mechanically coupled to the device, an impulse motor also coupled to the device, a source of current to establish the speed of said device, and connections whereby said source supplies current to said driving machine to control the speed thereof and to said impulse motor to drive it.

1,753,332. SPECIAL TILE FOR DRIP LEDGE. THOMAS G. COGHLAN, Elizabeth, N. J. Filed Jan. 27, 1927. Serial No. 163,907. 3 Claims. (Cl. 110—40.)



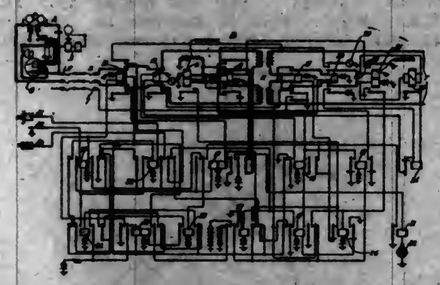
1. In a furnace, a stoker adapted to support a bed of fuel thereon and extending adjacent a wall of the furnace, and a ledge extending from the wall over said bed of fuel and spaced a substantial distance thereabove, the lower face of said ledge sloping downwardly away from the wall, whereby slag running down the wall will fall from said ledge on to said bed.

1,753,333. WELT. DAVID P. CUMMINGS, Newton Center, Mass. Original application filed June 6, 1927, Serial No. 196,771. Divided and this application filed Jan. 2, 1929. Serial No. 329,924. 5 Claims. (Cl. 36—78.)



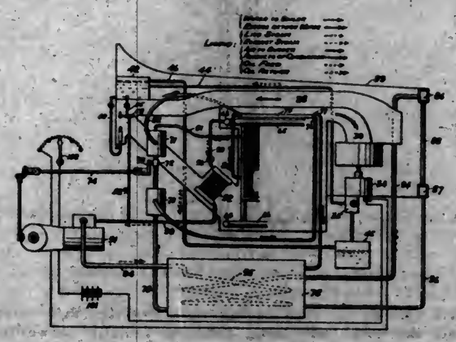
1. A welt comprising a narrow strip of pile fabric having a woven body with long pile fibres woven into said body and impregnated throughout with a permanently flexible binder and compacted to extend in angular relation to the plane of said woven body, and having a surface coating coherent with said binder.

1,753,334. TELEPHONE SYSTEM. THOMAS V. CUBLEY, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 10, 1928. Serial No. 276,653. 12 Claims. (Cl. 179—6.6.)



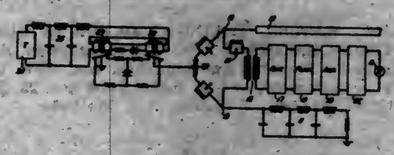
1. In a telephone system, two stations, a coin collect and refund device associated with one of said stations, means for establishing a connection between said stations, means responsive to the establishing of said connection for actuating said device to refund coins deposited therein, and means responsive to the release of said connection for actuating said device to collect coins deposited therein.

1,753,335. STEAM-POWER PLANT. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Co., Wilmington, Del., a Corporation of Delaware. Filed Apr. 18, 1921. Serial No. 460,996. 1 Claim. (Cl. 122—3.)



In a power plant, a furnace, a boiler arranged to be heated by the products of combustion from the furnace, a heat interchanger arranged to be heated by the products of combustion from the furnace and comprising two tubes, one of which is of relatively small cross-section and the other of which is of relatively large cross-section, joined together in external surface contact with each other, and means for causing liquid to flow from the supply through the larger tube of said heat interchanger into the boiler and for causing fluid to flow from said boiler through the smaller tube of said heat interchanger to the liquid supply, whereby the liquid entering the boiler is heated both by the fluid leaving the boiler and by the products of combustion.

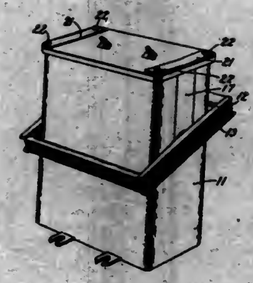
1,753,336. DUPLEX TELEGRAPH SYSTEM FOR LOADED CABLES. JOHN J. GILBERT, Douglaston, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1927, Serial No. 244,025. Renewed July 12, 1929. 13 Claims. (Cl. 178—68.)



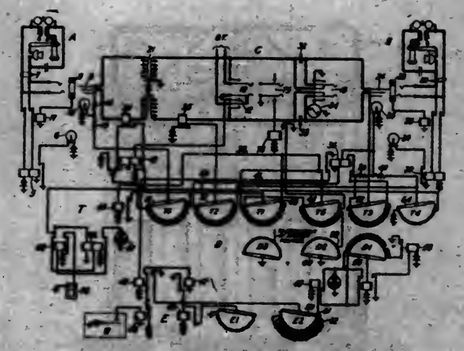
1. The method which comprises converting impulses of frequency corresponding to a given dot signaling frequency supplied by a telegraph transmission system into revised impulses of greater average time between voltage changes and containing useful energy of frequency at about the dot signaling frequency, and impressing said revised impulses upon the signaling conductor.

1,753,337. ADJUSTABLE INDUCTANCE COIL. FREDERICK J. GIVEN, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 11, 1928. Serial No. 291,746. 4 Claims. (Cl. 171—342.)

1. A variable balanced inductance coil having a plurality of winding sections, and a short-circuited coil of wire mounted for angular movement with respect to said coil in the field of said coil and symmetrically with respect to said winding sections, to vary the inductance of said winding sections simultaneously in the same proportion.



1,753,338. TELEPHONE-EXCHANGE SYSTEM. ALFRED E. HAGUE, West Orange, and GEORGE H. PETERSON, Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 9, 1928. Serial No. 276,248. 21 Claims. (Cl. 179—51.)

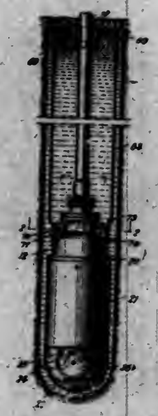


1. In a telephone exchange system, a plurality of lines terminating at a central office, a plurality of link circuits thereat for interconnecting said lines, signaling devices for said link circuits, a plurality of selector switches for actuating said signaling devices, and means controlled jointly by the operator and the subscriber on a connected line for actuating said selector switches to effect the operation of said signaling devices a predetermined period of time after the response of a subscriber to a connection between said lines.

1,753,339. EARTH-BORING MACHINE. JOHN K. HENCKEN, Brooklyn, N. Y. Filed June 16, 1928. Serial No. 285,839. 11 Claims. (Cl. 255—4.)

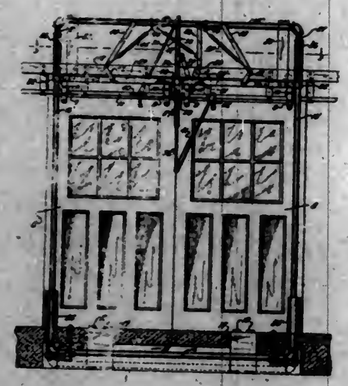
1. In an earth boring machine, an impact delivering unit comprising a rotatable member having an impact delivering

element pivotally connected thereto, means for actuating said rotatable element whereby said impact delivering



hammer is rotated about the axis of said rotatable member, and actuating means for bodily moving said unit about a perpendicular axis.

1,753,340. GARAGE-DOOR OPERATOR. ADAM HERR, Sheboygan, Wis. Filed July 11, 1927. Serial No. 204,947. 2 Claims. (Cl. 268—40.)



1. A garage door operator, comprising door sliding levers, a rectangularly shaped vertically movable intermediate member surrounding a door opening connected at its upper portion to said levers for moving the same, and a depressible track mounted in a drive-way and supported at one point by a lower portion of said intermediate member to lower the same upon being depressed, said track extending in the path of travel of a vehicle.

1,753,341. BRAIDER BOBBIN. ANTHONY HLAVAC, Chicago, Ill., assignor to Eber J. Hubbard, Berwyn, Ill. Filed Apr. 24, 1929. Serial No. 357,757. 6 Claims. (Cl. 242—118.)

1. A braider bobbin comprising a hub, end disks secured thereto, a reinforcing plate applied against the outer face of each disk, said disks and plates having registering axial openings, a core extending through said openings, and a wide tooth extending from each plate into its opening,



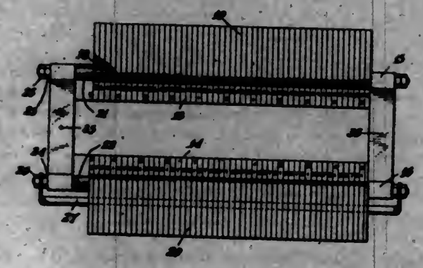
said core at its ends having slots receiving said teeth and the core ends being deflected radially outwardly against the outer faces of said plates.

1,753,342. REEL. EBER J. HUBBARD, Berwyn, Ill. Filed Feb. 25, 1928. Serial No. 256,653. 2 Claims. (Cl. 242—77.)



1. A spool or reel comprising a barrel and non-metallic heads secured thereto, and a sheet metal reinforcing tire structure for each head in the form of a narrow cylindrical band having inner and outer flanges extending radially to clamp against the inner and outer faces of the head adjacent to the head periphery, there being grooves in the head adjacent to its periphery to receive the flange ends whereby to secure the tire structure against radial displacement.

1,753,343. MASTER TESTING CARD FOR JACQUARD KNITTING MACHINES. FRANK HUG, Brooklyn, N. Y., assignor to Franklin Knitting Mills, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 22, 1924. Serial No. 751,570. 8 Claims. (Cl. 66—156.)



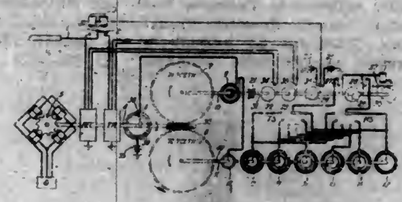
1. A master testing device for jacquard knitting machines and the like, comprising, in combination, a substantially rectangular frame comprising end and side members, and a set of testing fingers pivotally mounted on each of said side members.

1,753,344. METHOD OF PRODUCING DRAWINGS. KARL K. KNECHT, Evansville, Ind. Filed June 1, 1926. Serial No. 112,932. 1 Claim. (Cl. 35—12.)



The method of producing a drawing composed of a series of lines whose length and direction follow a predetermined plan and whose delineation will produce a complete drawing, consisting in placing a ruler or straight-edge in successively differing positions on a sheet or chart having a blank surface provided with an indexed starting point and also flanked by irregularly placed indexed points or location, successive ones of the irregularly placed indexed points being intersected by the ruler or straight-edge while lying across said blank part, drawing a line of predetermined length and position on the blank surface from the indexed starting point on the blank surface when the ruler or straight-edge is thus used, and continuing this procedure, using other ones of the irregularly placed indexed points in conjunction with a terminus of the previously drawn line as the work advances, until the drawing has been completed on the blank surface of the sheet or chart.

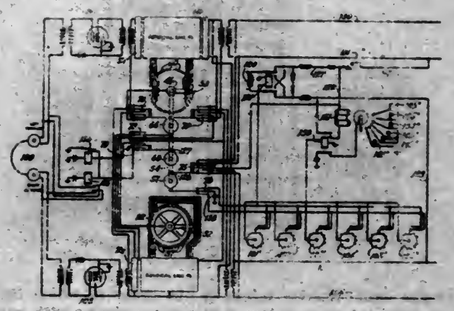
1,753,345. TIMING CIRCUIT. WILLIAM A. KNOOP, Hempstead, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 9, 1928. Serial No. 260,444. 12 Claims. (Cl. 178—2.)



1. In a time switch comprising two normally open contacts in series in an electric circuit, the method of closing said circuit at long intervals which comprises closing one of said contacts periodically and closing said other contacts periodically at a time rate slightly different from that at which said first contacts are closed and at such a rate that the time between successive simultaneous closures is greater than the time between successive closures of each contact.

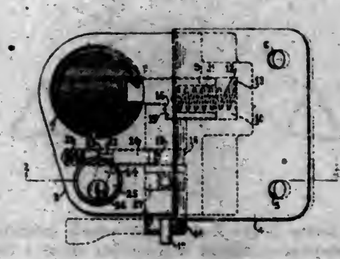
1,753,346. SOUND-RANGING SYSTEM. GEORGE R. LUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 19, 1928. Serial No. 646,804. 5 Claims. (Cl. 177—386.)

1. A submarine sound ranging system comprising a pair of telephone transmitters, a pair of line circuits, with which said transmitters are associated, a telephone receiver connected to the opposite end of each line circuit, two artificial lines adapted to be connected in said line circuits between the receivers and transmitters each having units of different values, and a manually operated switching mechanism for varying the number of units to



be included in said line circuits and having means operated by the movement of the said mechanism to interchange said artificial lines with relation to said line circuits.

1,753,347. LOCKING DEVICE FOR AUTOMOTIVE VEHICLES AND THE LIKE. GEORGE J. MEUER, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed Mar. 1, 1924. Serial No. 698,160. 4 Claims. (Cl. 70—127.)

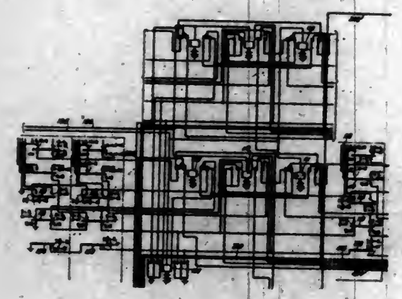


1. The combination with a latch movable into and out of locking engagement with a steering column, of a switch adapted upon given movement of a part thereof in opposite directions respectively to make and break an ignition circuit, said make and break being effected with a snap action, and common operating means for said latch and said switch comprising a member having a plurality of cam surfaces adapted upon given movement thereof to effect proportionate movement of said latch and disproportionate movement of said switch part, said movements of said parts being correlated to insure locking positioning of said latch prior to breaking of said ignition circuit.

1,753,348. MONITORING SYSTEM. JAMES B. NEWSOM, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 4, 1928. Serial No. 274,994. 26 Claims. (Cl. 179—27.)

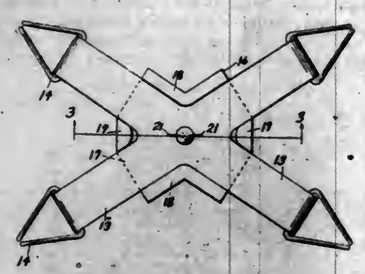
21. In a registering system, a registering device comprising a plurality of registers, means for setting said registers, a plurality of transfer relays, means responsive to the seizure of said registering device for operating all

of said transfer relays, and means responsive to the repeated operation of said setting means to successively de-



energize said transfer relays in the order in which they were operated to associate said setting means with each of said registers in turn.

1,753,349. TRACTION DEVICE. GEORGE W. PERKS, Akron, Ohio, assignor to John R. Gammeter, Akron, Ohio. Filed Feb. 1, 1927. Serial No. 165,091. 4 Claims. (Cl. 152—14.)

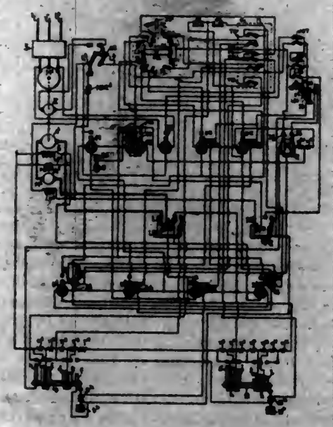


4. A traction device for vehicle wheels comprising an element adapted to extend transversely about a tire, said element being of flexible, resilient, non-metallic, strain-resisting material constructed in the shape of a cross, a metal cleat secured on the element, said cleat comprising a backing plate mounted under the element and projections on the plate extending beyond the traction surfaces of the element, and means for securing said cleat on the element.

1,753,350. NICKEL-PLATING APPARATUS. ALFRED B. SCHUPP, Richmond Hill, N. Y., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Dec. 18, 1925. Serial No. 76,164. 6 Claims. (Cl. 204—5.)

1. In a coating apparatus, the combination with a plurality of tanks including partitions between them of a carriage for conducting the objects to be coated through the tanks, an object support depending from the carriage, a double rail track supporting the carriage, wheels on the carriage running upon the rails of said track, a fixed rack between the rails of said track, a gear mounted on the carriage above the rack, and engageable with the rack for lifting the object support over the partitions between adjacent tanks and a guide at either side of said rack for bringing said pinion into register therewith.

1,753,351. MOTOR-CONTROL SYSTEM FOR ELEVATORS AND THE LIKE. EDWIN W. SEECKS, South Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer, Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 29, 1926. Serial No. 157,789. 11 Claims. (Cl. 172—152.)



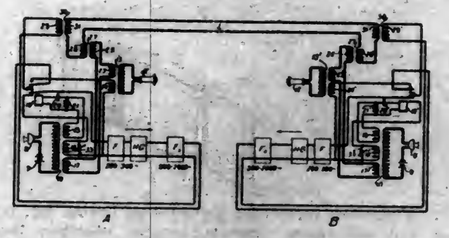
1. In combination, a reciprocating carrier, a motor for driving said carrier, means operable at any point in the line of travel of said carrier for initiating operation of said motor in reverse directions selectively, said means being also operable to initiate stopping of the motor, and means thereafter operable automatically in accordance with the position of the carrier to effect stopping of the motor by plugging, whereby the same is stopped with said carrier accurately positioned at a preselected point in its line of travel.

1,753,352. HAND OR ANGLE PIECE FOR DENTAL PURPOSES. HANS STARK, Berlin-Charlottenburg, Germany, assignor to Deutsche Gold- und Silberscheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Filed Apr. 25, 1929, Serial No. 358,041, and in Germany Apr. 24, 1928. 7 Claims. (Cl. 32—11.)



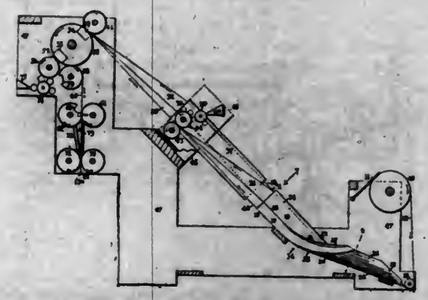
1. In a hand piece or angle piece for clamping drilling and grinding tools, particularly for dental purposes, a driven shaft having a driven gear thereon, and a driving shaft having a driving gear meshing with the driven gear, one of said shafts being free to move transversely of its own axis whereby the driving gear and the driven gear will automatically adjust themselves to favorable relative positions upon rotation.

1,753,353. ELECTRICAL SYSTEM FOR SECRET TRANSMISSION. JOHN C. STEINBERG, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 18, 1927. Serial No. 226,857. 12 Claims. (Cl. 179—1.)



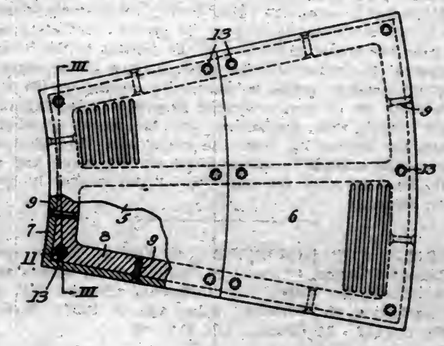
1. In a signaling system, a source of message waves, means for generating from said message waves noise waves having harmonics of said message waves, means for combining said noise waves with said message waves, and means at a distant receiving point for neutralising said noise waves while retaining the message waves.

1,753,354. PAPER-BAG-MAKING MACHINE. BURNHAM C. STICKNEY, Hillside, N. J. Filed Nov. 26, 1927. Serial No. 235,784. 16 Claims. (Cl. 93—18.)



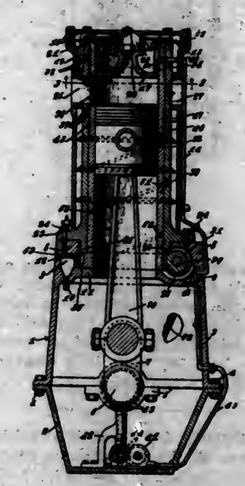
1. A former for longitudinally fluting a paper web, including superposed co-operative members between which the web is drawn lengthwise, and from which it is delivered in narrowed fluted condition, said former having a relatively broad intake portion and a relatively narrow riffled delivery portion, one of said superposed members having at its intake portion means for supporting the incoming web in smooth condition, each of said members having between its intake and delivery ends a set of web-fluting riffles placed diagonally of the general direction of travel of the web and extending towards the delivery portion of the former, the other of said superposed members provided with riffles complementary to the aforesaid riffles, and means for supporting said members with the riffles of each member protruding into the corresponding depressions of the other member, and with one member slightly spaced from the other so that all of said riffles co-operate to form a constricted undulatory web-guiding passage permitting free advance of the web.

1,753,355. SCREEN STRUCTURE. SAMUEL BLAINE STINE, Osceola Mills, Pa. Filed Apr. 10, 1928. Serial No. 268,864. 5 Claims. (Cl. 209—399.)



1. Screen structure adapted for relative rotative movement with respect to a scraper, comprising an outer screen portion, and an inner screen portion of greater thickness than the outer portion.

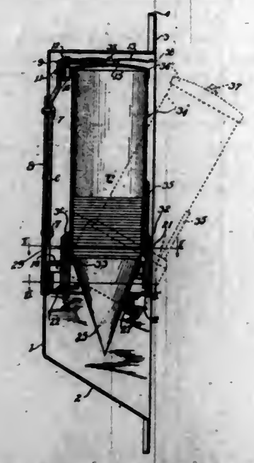
1,753,356. ROTARY SINGLE SLEEVE-VALVE MOTOR. EDWARD E. THISLER, Harrodsburg, Ky. Filed May 7, 1928. Serial No. 275,822. 1 Claim. (Cl. 123—80.)



In an internal combustion engine, a crank case having a worm chamber and provided with an oil outlet leading from the chamber to the interior of the crank case, a cylinder on the crank case, a cap on the cylinder and having an extension prolonged into the cylinder and spaced from the inner cylinder wall, a single sleeve valve journaled in the cylinder and extended at one end into the space between the inner cylinder wall and the outer surface of the extension, the inner surface of said end of the valve being in direct contact with the outer surface of the extension, and the outer surface of the valve being in direct contact with the inner cylinder wall, the valve having a port and being provided on its outer surface with oil-holding grooves disposed about the port, the valve being supplied on its inner surface with end and intermediate sets of circumferential grooves located on opposite sides of the said oil-holding grooves, the valve being equipped on its outer surface with a spiral groove extended from the intermediate set of circumferential grooves to the worm cham-

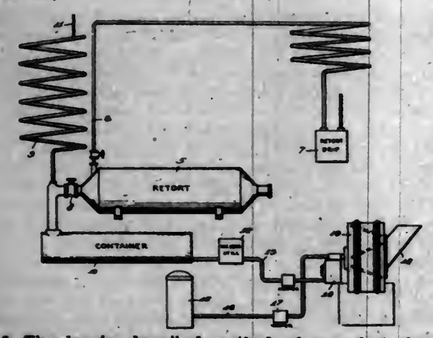
ber, a conduit having one end in communication with the interior of the crank case, the opposite end of the conduit discharging between the inner wall of the cylinder and the outer surface of the valve and into the end set of circumferential grooves, the valve having a transverse opening in the midst of the end set of grooves and carrying oil from the last-specified end of the conduit to the inner surface of the valve and the outer surface of the extension, the conduit having a branch discharging on the intermediate set of circumferential grooves and having another branch that discharges into the worm chamber, means for forcing oil from the crank case through the pipe to the conduit, a worm wheel on the valve, and a worm meshing with the worm wheel and located in the worm chamber.

1,753,357. CUP DISPENSER. ANDREW C. WOOD and RUDOLPH BARBS, Chicago, Ill., assignors, by mesne assignments, to Vortex Cup Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 1, 1927. Serial No. 180,112. 11 Claims. (Cl. 312—48.)



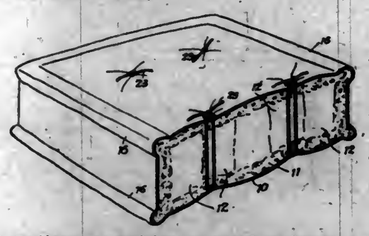
1. A cup dispenser comprising a housing adapted to be projected through a recess in a supporting wall and secured thereto, of a bracket mounted in said housing, a cup container pivotally supported on said bracket, and latch means on said bracket adapted to removably engage the container to hold the same in a dispensing position within said housing.

1,753,358. METHOD OF MANUFACTURING MEAT CURE. ERNEST H. WRIGHT, Kansas City, Mo. Filed Nov. 22, 1927. Serial No. 235,022. 7 Claims. (Cl. 99—1.)



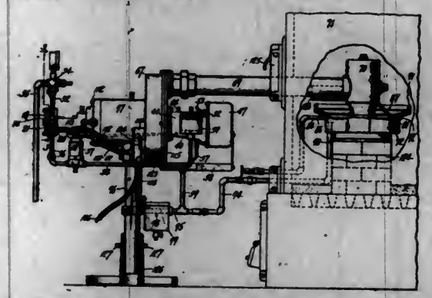
6. The herein described method of manufacturing a meat cure product, which consists of atomising the condensate resulting from the distillation of wood and forcibly discharging the same upon salt crystals, while agitating the salt in suspension.

1,753,359. MATTRESS. MICHAEL BECHIK, Memphis, Tenn. Filed Aug. 24, 1928. Serial No. 301,727. 2 Claims. (Cl. 5—355.)



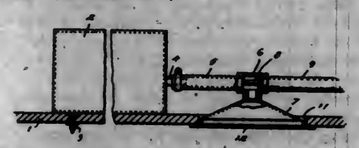
1. A mattress comprising an envelope having top, bottom and side fabric elements, parallel relatively inextensible straps at the top and bottom of the mattress extending across the mattress and secured at their ends to the lateral extremities of the adjacent cover elements, eyelets arranged in pairs laterally spaced from each other and more widely spaced from adjacent pairs said eyelets securing the straps to the cover elements the straps being slack between the pairs of eyelets, between the eyelets of each pair and between the sides of the mattress and the adjacent eyelets, and cords passed through opposed pairs of eyelets and tied at the outside of the mattress, substantially as set forth.

1,753,360. LIQUID-FUEL BURNER. JOHN MURTON BROWN, Irvington, N. J., assignor to Crystal Oil Burner Corporation, Irvington, N. J., a Corporation of New Jersey. Filed Apr. 9, 1928. Serial No. 268,429. 16 Claims. (Cl. 158—53.)



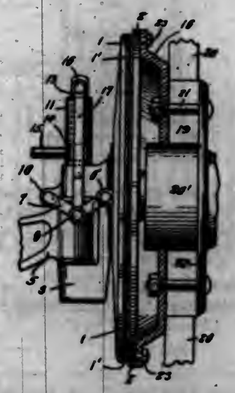
1. Combustion apparatus of the type described which comprises a burner having upwardly and outwardly directed burner ports arranged about a central axis and a retort mounted centrally above said burner, said retort having a central outlet pipe projecting from said burner upwardly into said retort, an inlet in a vertical wall of said retort, and a partition extending from said vertical wall above said inlet to said outlet pipe.

1,753,361. FIRE ALARM. JOHN S. CAWTHON, Beech Bluff, Tenn. Filed June 27, 1929. Serial No. 374,217. 3 Claims. (Cl. 116—106.)



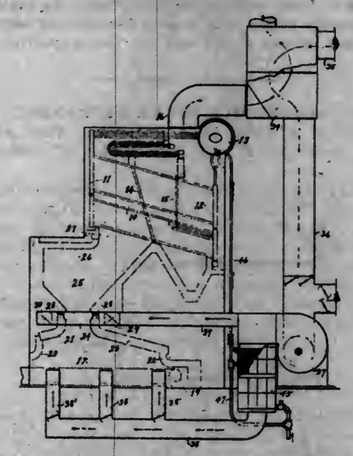
1. An alarm, comprising a compressed air receptacle, a combustible conduit connected and in communication at one end with the receptacle and having the other end closed, and sound means in the conduit adjacent the receptacle designed to be acted upon by air passing therethrough following rupture of the conduit, to create an audible signal.

1,753,362. BRAKE MECHANISM. STUART H. CLAPP, Washington, D. C., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1925. Serial No. 17,029. 27 Claims. (Cl. 188—194.)



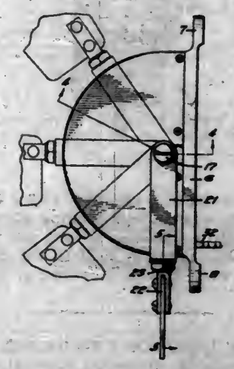
1. In a brake mechanism, including an axle, a wheel, a primary disk, means for mounting the primary disk for axial but nonrotatable movement, a secondary disk rotating with the wheel, and a series of toggles to move the primary disk into frictional contact with said secondary disk.

1,753,363. FURNACE AND METHOD OF OPERATING THE SAME. THOMAS G. COGHLAN, Elizabeth, and EINAR A. JOHNSEN, Mountain Lakes, N. J. Original application filed July 21, 1925, Serial No. 44,957. Divided and this application filed June 5, 1926. Serial No. 113,856. 15 Claims. (Cl. 122—1.)



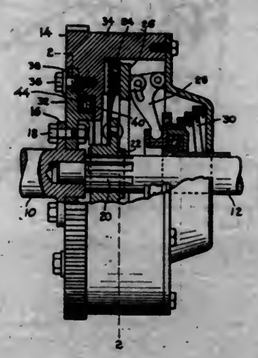
1. The method of operating a boiler furnace having a fuel grate in its lower part, which comprises heating all of the combustion air to a high temperature, dividing the heated air into two streams, reducing the temperature of one stream by transferring some of its heat to the boiler feed water, supplying the air of reduced temperature beneath the grate and supplying the heated air from the other stream to the gases rising from the fuel on the grate at a point above the grate.

1,753,364. SIGNAL DEVICE. DANIEL P. CORCORAN, Gridley, Calif. Filed June 25, 1929. Serial No. 373,490. 6 Claims. (Cl. 116—39.)



1. A signal device comprising a base, an indicator adapted to move pivotally on said base to any one of a plurality of selected positions, and means for revolving said indicator on its own axis during said pivotal movement.

1,753,365. FLYWHEEL. JOHN F. DAUKUS, Detroit, Mich. Filed Apr. 9, 1928. Serial No. 268,410. 4 Claims. (Cl. 74—6.)

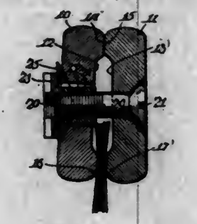


3. A fly wheel having a shaft portion and a weighted peripheral female clutch portion secured to the shaft portion to rotate therewith by yielding connections adapted to permit the weighted peripheral clutch portion to lag resistingly a limited distance, and rigid connections determining the extent of such lag.

1,753,366. BINDER FOR DOWN-HANGING SHEETS. HAROLD L. DE LISLE, Chicago, Ill. Filed Dec. 30, 1927. Serial No. 243,630. 8 Claims. (Cl. 129—167.)

1. A binder for down-hanging sheets comprising a pair of long and thin strip-like members face to face and formed trough-like interiorly in the longitudinal direction and

having fulcruming surfaces at their upper edge portions and binding surfaces at their lower edge portions respectively, and a plurality of bolts carried by one of said members intermediate the top and bottom edge portions thereof and projecting transversely of said members, with a nut on each of said bolts bearing against the other one of said



members for drawing the members toward each other for clamping sheets between said binding surfaces, at least one of said members extending at each end thereof beyond the sheet material normally held in the device whereby the device as a whole may be supported at its opposite end portions.

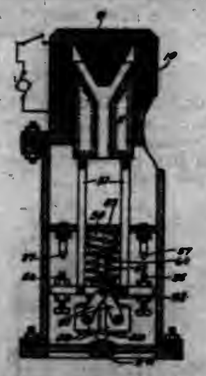
1,753,367. LEG REST FOR THE DRIVERS OF MOTOR CARS. HOWARD B. DICKENS, Endicott, N. Y. Filed July 30, 1928. Serial No. 296,193. 2 Claims. (Cl. 155—171.)



1. In combination with a vehicle seat, a pair of supporting members pivoted to the underside of said seat and extending upwardly adjacent thereto, a rest member pivotally supported at the upper ends of said support members and swingable therewith into and out of rest position along side of said seat and substantially below the level of said seat in one position.

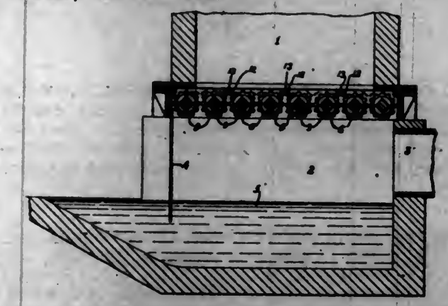
1,753,368. SUBAQUEOUS SOUND-PRODUCING DEVICE. ALARD DU BOIS-REYMOND, Plon, near Kiel, and WILHELM RUDOLPH, Kiel, Germany, assignors to Firm Signal Gesellschaft m. b. H., Kiel, Germany. Filed July 17, 1920, Serial No. 397,136, and in Germany Sept. 22, 1919. 7 Claims. (Cl. 177—386.)

3. A sound producing device comprising means for exerting a pull in a given direction, a reciprocating hammer provded with a surface adapted to be gripped, and means for operatively connecting said pulling means and said reciprocating hammer, including gripping means exerting a pressure normal to the motion of the pulling means, a



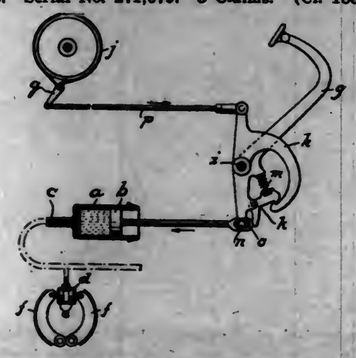
sound radiating means and means operated upon the release of the pulling means for forcing said hammer against said radiating means.

1,753,369. FURNACE GRATE. WILLIAM M. DUNCAN, Alton, Ill. Filed Sept. 17, 1926. Serial No. 136,052. 4 Claims. (Cl. 126—181.)



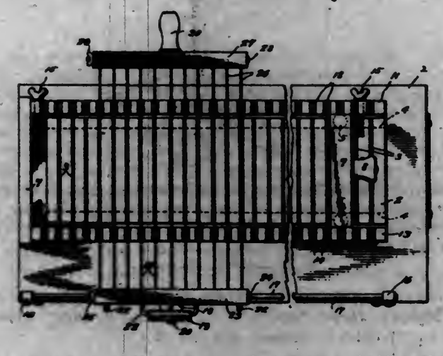
1. In a furnace grate, rotatable fuel-supporting members located adjacent to each other to form a grate, a driver whereby said adjacent members are rotated in opposite directions to force residual matter through the grate, and fuel-supporting baffles each located immediately above rising portions of two of the rotating fuel-supporting members.

1,753,370. AUTOMOBILE BRAKE MECHANISM. ELEUTHERE PAUL DU PONT, Montchanin, Del. Filed Apr. 21, 1928. Serial No. 271,679. 3 Claims. (Cl. 188—152.)



2. In combination, an hydraulic brake mechanism, a body of fluid arranged to actuate the brake mechanism when under pressure, means for exerting pressure on the body of fluid including a fluid displacing member and a manually operable lever connected thereto to move the member against the pressure of the fluid, a second brake mechanism, connections whereby the second brake mechanism may be actuated by manipulation of the lever, and means acting when the hydraulic brake mechanism is operative to render the connection inoperative upon manipulation of the lever.

1,753,371. BREAD SLICER. MICHAEL L. GEORGOPOULOS, West Palm Beach, Fla. Filed July 10, 1928. Serial No. 291,566. 5 Claims. (Cl. 146—189.)



1. A bread slicer having a slotted base, knife guides mounted on the base and having knife slots aligned with the first mentioned slots, and slicing knives mounted for sliding adjustment to a selected series of slots.

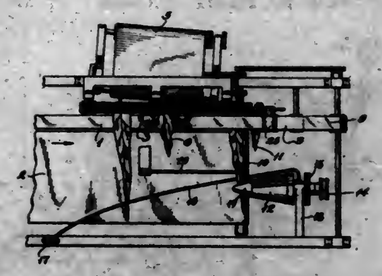
1,753,372. COMBINATION STOOL, LADDER, AND KITCHEN BLOCK. RICHARD G. GOSER, Alameda, Calif. Filed Mar. 26, 1928. Serial No. 264,597. 3 Claims. (Cl. 155—42.)



1. In a combination furniture of the character described, a stool comprising two side members and a top member, a series of steps supported by the two side members and leading to the top from in front, a block hinged to the rear edge of the top for swinging motion from a position on top of the stool to a concealed position between the sides of the same and a partition interconnecting the sides for bracing the same and for separating the steps from the block in its concealed position.

1,753,373. LEAF-HANDLING MACHINERY. JOSEPH GOUGH, Newark, N. J., assignor to Gough Stemming Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Aug. 15, 1927. Serial No. 212,912. 13 Claims. (Cl. 131—57.)

1. The combination with leaf stemming mechanism including means against which the blades of the leaves are bunched as the stems of the leaves are extracted and for conveying the leaves from the stemming station, of means for grasping and pulling leaves from said means for conveying the leaves, the means for grasping and pulling the leaves being located out of the path of the properly stemmed leaves but within the path of the remainder of the leaves.

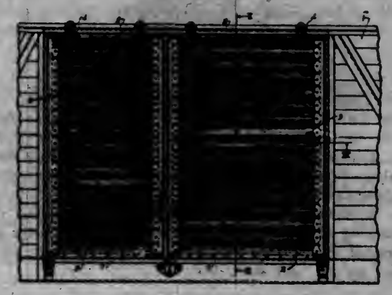


1,753,374. BOWL-HOLDING MEANS FOR LIGHTING FIXTURES. EDWIN F. GUTH, St. Louis, Mo. Filed June 13, 1928. Serial No. 284,930. 1 Claim. (Cl. 240—128.)



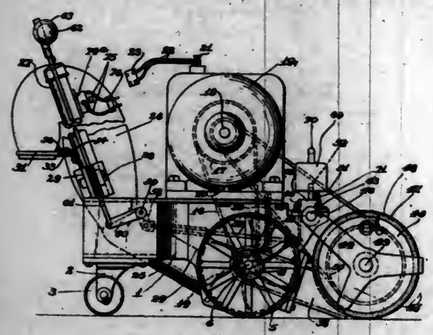
In a device of the character described, the combination, with a reflector and a bowl having a lip formed thereon, of a plurality of fixed lugs secured to the reflector to engage the lip of said bowl, there being an opening in the side of said reflector, a spring-actuated shaft mounted on the upper side of the reflector, the end of said shaft extending outwardly through said opening, thence downwardly and inwardly and forming a retaining clip, and having a spring mounted to hold said clip normally in engagement with said lip.

1,753,375. METAL CAR DOOR. FREDERICK C. HEINEN and WILLIAM W. DARROW, Chicago, Ill., assignors to Camel Company, Eau Claire, Wis., a Corporation of Illinois. Filed Feb. 6, 1926. Serial No. 86,896. 7 Claims. (Cl. 189—46.)



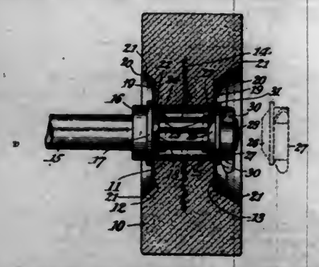
1. In a railway car door, a metal panel and sheaths enclosing the lateral margins of the panel, the outer margin of one sheath having an inwardly and forwardly bent flange, the outer margin of the other sheath having an outwardly and rearwardly directed flange.

1,753,376. FLOOR-SURFACING MACHINE. GEORGE T. HILLS, Chicago, Ill., assignor, by direct and mesne assignments, to Muskegon Manufacturing Company, Muskegon, Mich., a Corporation of Michigan. Filed Nov. 7, 1927. Serial No. 231,412. 8 Claims. (Cl. 51—176.)



1. A floor surfacing device comprising a framework, rollers supporting the same, a driving motor on said framework, a dust collecting fan pivotally supported on said framework, a dust collecting hood connected with said fan, a surfacing drum unit removably engaged on said framework and co-acting with said dust collecting hood, a steering post mounted on said framework, a control switch on said steering post, means for connecting the same with said motor, a control mechanism connected with said finishing drum unit, a control handle pivotally mounted on said steering post and connected with said control mechanism to cause the pressure of the drum unit on the floor to be varied depending upon the operation of said pivoted handle, and means mounted on said steering post and on said pivoted handle for regulating the maximum pressure of said finishing drum unit.

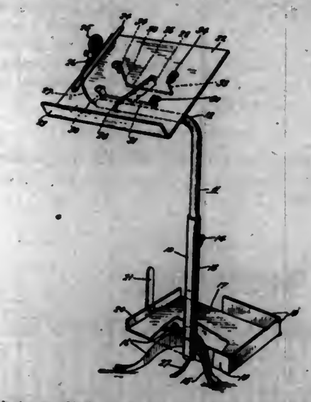
1,753,377. GRINDING WHEEL AND MEANS FOR MOUNTING THE SAME. THADDEUS A. JACKSON, Brooklyn, N. Y., assignor of one-half to William J. Skelly, New York, N. Y. Filed Jan. 28, 1928. Serial No. 250,243. 2 Claims. (Cl. 51—168.)



2. A grinding wheel having a central bore and opposite circular depressions provided with outwardly flaring straight circumferential walls, in combination with cheek plates shaped to intimately engage said walls and having conical sockets with central openings and unitary sleeves projecting inwardly from either end of said bore, an arbor and a clamping nut, each having a conical portion to fit said sockets and an extended circumferential flange bearing against the bottom of the recesses at the edge of said bore as shown and described.

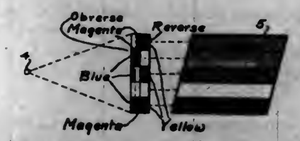
1,753,378. UTILITY STAND. LUTHER M. JONES, Chicago, Ill. Filed Jan. 16, 1928. Serial No. 247,080. 3 Claims. (Cl. 45—62.)

2. A utility stand comprising a standard, a lateral arm at the upper end thereof having a transverse recess intermediate its ends, a bar having one end seated in said recess and extended laterally from said arm, a U-shaped strap the ends of which are secured to said bar



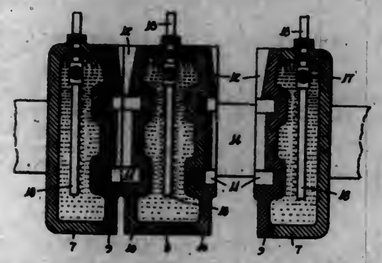
and the intermediate portion of which embraces said arm for clamping said bar to said arm, whereby said bar is immovably connected to said arm, and a table mounted on said bar.

1,753,379. COLOR PHOTOGRAPHY. WILLIAM V. D. KELLEY, Jersey City, N. J. Filed Nov. 9, 1925. Serial No. 67,734. 2 Claims. (Cl. 95—2.)



1. A photographic process which consists in forming a latent image in a light sensitized coating on one side of a transparent carrier, developing in acid diamidophenol, toning with an iron salt to a blue color and, after clearing with an aqueous bath of ammonium bromide and potassium bichromate, forming an image in the same coating and an image in a like coating on the other side of the transparent carrier and coloring said last formed images, one a magneta and the other a yellow, while preventing the coloring matter for one image from coming in contact with the other image.

1,753,380. CHILLING MOLD. JAMES P. LEARY, Baltimore, Md., assignor, by direct and mesne assignments, to The Process Casting Company, Baltimore, Md., a Corporation of Maryland. Filed July 6, 1928. Serial No. 290,826. 3 Claims. (Cl. 22—177.)



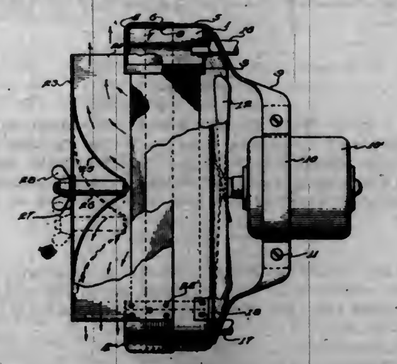
2. A chilling mold comprising a hollow section having a chill plate with a mold cavity therein, and a cold fluid supply pipe entering said section and having spray nozzles therein for directing jets of cold fluid against the back of said plate.

1,753,381. STORAGE-BATTERY ELECTRODE. SHERBURNE D. LEVINGS, Winnetka, Ill., assignor of one-third to Rufus N. Chamberlain and one-third to George R. Berger, Chicago, Ill. Filed May 11, 1926. Serial No. 108,218. 1 Claim. (Cl. 136—182.)



An electrode for storage batteries, comprising a portion having means for securing the electrode to the cover of a battery, a depending member integral with said portion and adapted to extend downwardly therefrom into the battery electrolyte, an insulated conductor cast into said portion, and a connector on said conductor, whereby said conductor may be readily disconnected from the circuit and said electrode may be removed from the cover.

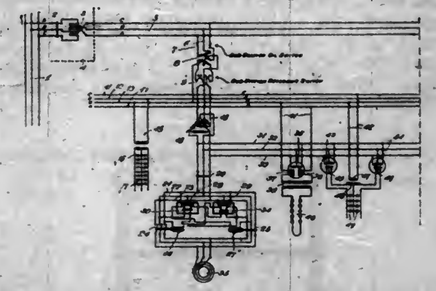
1,753,382. AUTOMOBILE BODY HEATER. DANIEL T. MACLEOD, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 26, 1929. Serial No. 335,223. 4 Claims. (Cl. 257—137.)



4. A space heater comprising a radiator core and spaced tanks having offsets in opposite sides thereof, a shell on said radiator core comprising complementary sections having registering offsets therein for holding said sections together, the offsets of said shell sections engaging the offsets of said radiator tanks for securing said shell to said tanks, a fan associated with one of said shell sections for forcing a current of air through said radiator core, a shield on the other shell section extending across the face of said core, and a baffle slidably mounted on said shield for selectively proportioning the flow of heated air toward respectively opposite sides of the radiator.

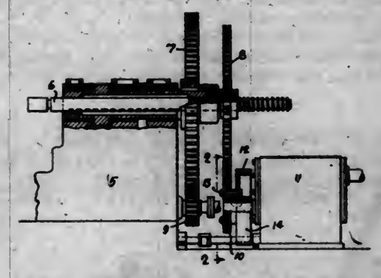
1,753,383. ELECTRICAL CONTROL SYSTEM. JOHN C. MCDONALD, New York, N. Y. Filed May 14, 1928. Serial No. 277,673. 2 Claims. (Cl. 171—97.)

1. In a power distribution and control system, a generator of polyphase current, a three wire distribution circuit connected to said generator, a four wire distribution circuit coupled with said three wire distribution circuit, a plurality of loads of different characteristics connected to selected phases of said four wire distribution circuit, means disposed between said generator and said three wire distribution circuit for reversing the sequence of the phase of the currents in said three wire distribution circuit, and independent means interposed between said three and four wire distribution circuits for reversing the



sequence of phase of the currents in certain of the phases of said four wire distribution circuit, while maintaining the continuity of at least one of the phases of said polyphase current independent of any change in condition of the other phase currents.

1,753,384. GEAR-BOX BRAKE. LOUIS G. MERRITT, Lockport, N. Y., assignor to Merritt Engineering & Sales Company, Inc., Lockport, N. Y., a Corporation of New York. Filed Nov. 4, 1926. Serial No. 146,133. 12 Claims. (Cl. 144—209.)



1. A power transmission for lathes, including means for driving a lathe spindle-rotating mechanism, toothed-gear means for driving a mechanism for axially shifting the lathe spindle, and means cooperating with said last-named driving means to retain the same against movement.

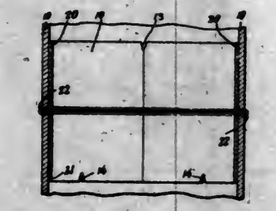
1,753,385. TOOTHBRUSH. ROBERT R. MYERS, Las Vegas, Nev., assignor to Clean-Be-Tween Tooth Brush Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 19, 1927, Serial No. 234,457, and in Germany Nov. 22, 1926. 1 Claim. (Cl. 15—176.)



In a holding device, adapted for use with a toothbrush having a stud for detachable engagement by said device, a tubular outer end portion, the inner end of the tubular portion opening into a nut-receiving aperture, a handle, a sleeve formed by said tubular portion and extending beyond said aperture, said sleeve being crimped about a portion of the handle for securement of the handle to said tubular portion, a stud clamping member having a stud-receiving opening in its outer end, and a rearwardly extending slot leading from said opening and adapted to engage in said tubular outer portion, whereby the size of the stud opening may be decreased in diame-

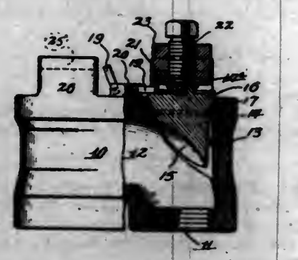
ter, a threaded stud formed on the inner end of said clamping member, and a nut disposed in the aperture of the tubular portion and engaging said threaded stud.

1,753,386. PIPE SLEEVE. HARRY PALTROWITZ, New York, N. Y., assignor to Altmar Steel Products Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 6, 1927. Serial No. 217,588. 1 Claim. (Cl. 285—197.)



The combination of a pair of pipe sections, a pipe sleeve provided with an equatorial portion extending between and abutted by the ends of said pipe sections, said equatorial portion being compressed between the ends of said pipe sections when said pipe sections are subjected to pressure endwise of the length thereof, said pipe sleeve being further provided with portions fitting into adjacent ends of said pipe sections, said last mentioned portions of the pipe sleeve being provided with notches and forcibly urged outwardly against the interior walls of the pipe sections by means of the endwise pressure exerted by said pipe sections when assembled upon the outside surface of said pipe sleeve at the equatorial portion thereof.

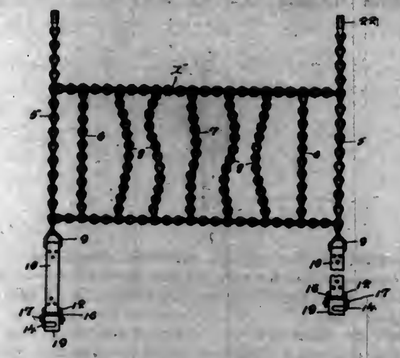
1,753,387. PIPE-BEND PLUG. ELWOOD K. PIERCE, Springfield, Ohio, assignor to The Ohio Steel Foundry Company, Lima, Ohio, a Corporation of Ohio. Filed Mar. 1, 1928. Serial No. 258,244. 3 Claims. (Cl. 137—76.)



1. In a pipe bend fitting having a curved inner passage, a plug closure having an inner surface curved to conform with and forming part of said curved passage, a locking piece for said plug engageable beneath upstanding portions of said fitting at opposite sides of said plug, and a hinged member on said fitting arranged to extend between said upstanding portions into interlocking engagement with said plug to position the latter in proper angular relation to said inner passage.

1,753,388. TIRE CHAIN. PETER SCHOLTUS, Detroit, Mich. Filed Mar. 19, 1928. Serial No. 262,670. 1 Claim. (Cl. 152—14.)

In a mud chain for a vehicle wheel with means for securing the chain thereto, said chain comprising side chains, cross chains secured to the ends of the side chains, equi-distantly spaced cross chains having their ends secured to the side chains between the cross chains first mentioned, the outermost chains of those second mentioned being of similar length, the intermediate cross chain being of a slightly greater length than the outermost cross



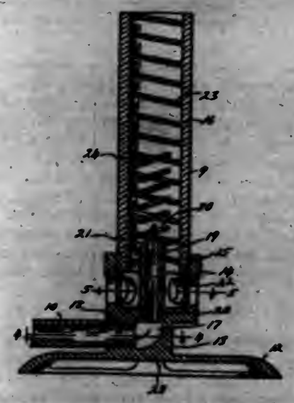
chains of those second mentioned, the remaining cross chains being arranged in pairs of the same length but of a greater length than the other cross chains, and the pairs of said remaining cross chains being disposed upon opposite sides of the intermediate cross chain.

1,753,389. BRIDGE FOR PIANOS. WILHELM SCHWECHTEN, Berlin-Lichterfelde, Germany. Filed Feb. 12, 1923, Serial No. 618,728, and in Germany Aug. 21, 1922. 6 Claims. (Cl. 84—212.)



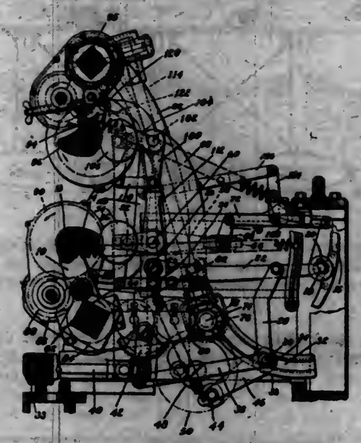
1. A device for a stringed musical instrument having a sound-board comprising a bridge having its mass substantially increased between the strings and the sound-board over that of a standard bridge to produce sounds of an improved timbre of tone, and strings bearing on said bridge.

1,753,390. FIRE KINDLER. FRANK A. TASCHNER, Detroit, Mich. Filed Oct. 27, 1927, Serial No. 228,984. Renewed Sept. 18, 1929. 4 Claims. (Cl. 158—10.)



1. A gas burner comprising a base, a flow pipe removably secured to the base, a nozzle carried by the base, a casing removably secured to the base and surrounding the upper extremity of the nozzle, a coil mounted within the casing and a second coil mounted on the nozzle interiorly of the first mentioned coil.

1,753,391. LAST LATHE. LAURENCE B. TOPHAM, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 15, 1928. Serial No. 299,690. 24 Claims. (Cl. 142—15.)



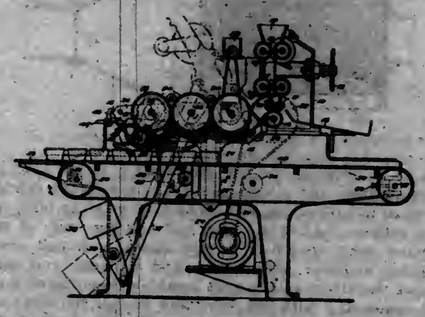
1. In a pattern copying machine, means for holding a block and a model, a tool, and a width grading mechanism arranged to co-operate with the model, the width grading mechanism being constructed and arranged to grade from a diameter of the model instead of from a radius comprised in the diameter.

1,753,392. EXCAVATING TOOTH. LESHER W. VAN BUSKIRK, Easton, Pa. Filed July 2, 1927. Serial No. 208,126. 3 Claims. (Cl. 37—142.)



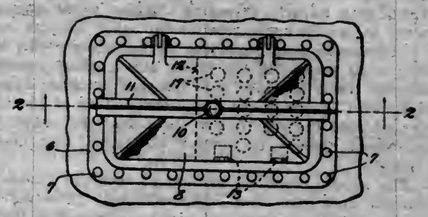
1. An excavating tooth tip having diverging wings and a rearwardly extending shank between the wings provided with contacting portions at its opposite sides to contact with the sides of a slot in a tooth base, said contacting portions terminating short of the juncture of said wings.

1,753,393. DOUGH-MOLDING MACHINE. FRANK H. VAN HOUTEN, Beacon, N. Y., assignor to Dutchess Tool Company, Beacon, N. Y., a Corporation of New York. Filed Sept. 17, 1926. Serial No. 136,121. 18 Claims. (Cl. 107—9.)



1. In a dough molding machine, the combination of a main frame, a series of drums journaled in said frame, a pressure plate carried by said main frame and having a dough supporting surface along which the dough travels while being operated upon by said drums, a shaft journaled in said frame, a gear on said shaft, a rack carried by the pressure plate and meshing with said gear, a rock arm fixedly mounted on said shaft, and a screw connected to said arm for rocking said shaft whereby the dough supporting surface of the pressure plate may be adjusted toward and from the peripheries of said drums.

1,753,394. THIEF-HOLE COVER. ORVILLE C. WATSON, Skiatook, Okla. Filed May 31, 1928. Serial No. 281,909. 1 Claim. (Cl. 220—57.)



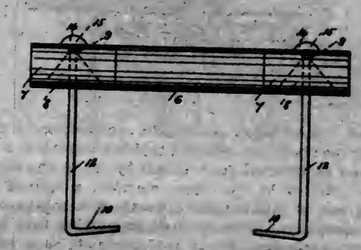
A sample supporting tray for tanks, including a body portion formed of a length of sheet metal perforated to permit liquid to pass therethrough, a hinge connected with the body portion at one edge thereof, means for securing the hinge to the tank, an arm pivotally connected with the body portion at one side thereof, means for adjustably securing the arm to the tank to support the body portion in a horizontal plane.

1,753,395. CLEANING COMPOUND. FREDERIC WILKES, Wilkinsburg, Pa. Filed Apr. 5, 1928. Serial No. 267,797. 1 Claim. (Cl. 87—5.)

A cleaning compound containing approximately:

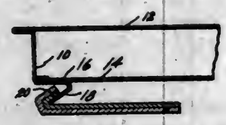
	Per cent
Silicate of soda	33
Saturated borax water	66
Ammonia	1

1,753,396. STORAGE-BATTERY CARRIER. JAMES J. WITKOWSKI and WILLIAM L. LEEPER, Albion, N. Y. Filed June 12, 1928. Serial No. 284,802. 3 Claims. (Cl. 16—114.)



1. A carrier, comprising a handle having a longitudinal slot in one end portion, said slot being open at its bottom and having a clutch socket at its top, a hook provided with a shank which is slidable vertically in the said slot and which has a head which suspends the hook from the handle, said shank having also a projecting clutch portion which normally engages with the said socket and prevents the hook from rotating while the head is resting on the handle, said shank being rotatable in said slot when said clutch portion is disengaged from said socket and a hook suspended from the other end portion of the handle.

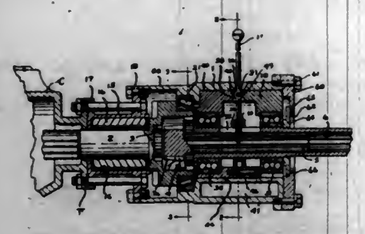
1,753,397. METHOD OF AND MEANS FOR FASTENING INTERIOR WALL PANELS TO AUTOMOBILE BODY FRAMES. HERBERT J. WOODALL and MEREDITH S. RANDALL, Detroit, Mich. Filed Oct. 31, 1927. Serial No. 229,828. 4 Claims. (Cl. 45—138.)



1. An automobile body wall structure including a frame provided with linearly extending angular panel supports disposed in spaced apart relationship, each support having a deformable leaf projecting normally outwardly angularly with respect to the frame and a panel superimposing the frame provided with inturned marginal flanges engaged over the angularly projecting leaves of the supports and held thereby toward the frame and outwardly with respect thereto to streach the panel taut across the frame.

3. The herein described method of securing panels to automobile door and other automobile body constructions having oppositely disposed and angularly extending leaves vertically disposed with respect to the door and operatively connected therewith one of which is deformable, the steps which comprise the positioning of a panel having inturned marginal flanges into interfitting relationship with said leaves and in subsequently bending the deformable angular leaf toward the frame structure and outwardly with respect to the panel to thereby draw the panel against the frame and stretch the panel across the frame.

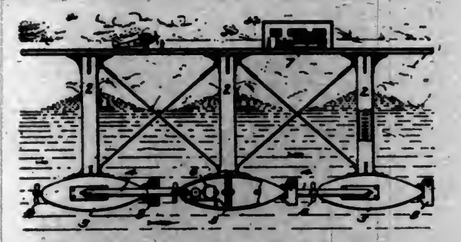
1,753,398. TRANSMISSION GEARING. CHARLES E. F. AHLM, Cleveland, and GEORGE M. SOULE, South Euclid, Ohio, assignors to Automotive Patent Holding Company, Cleveland, Ohio, a Corporation of Delaware. Filed Jan. 3, 1925. Serial No. 1,326. 6 Claims. (Cl. 74—58.)



1. In a transmission gearing in combination, a pair of rotatable members, one adapted to drive the other, a dental clutch and an internal gear carried by one of the members, a pinion carried by the other member, a splined sleeve carrying one of said rotatable members, a rolling bearing for the sleeve, an eccentric shell supporting said bearing and means extending within said eccentric shell comprising a pivoted lever for moving the eccentric to align the teeth of the pinion with the teeth of the clutch or gear and to subsequently cause the pinion to engage the clutch or gear.

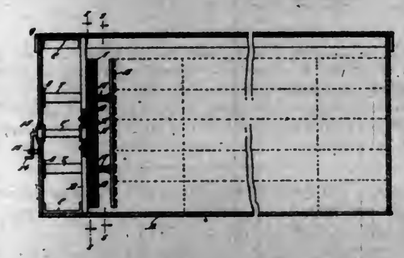
1,753,399. OCEAN-GOING WATER CRAFT. WILLIAM R. BLAIR, Washington, D. C. Filed June 26, 1929. Serial No. 373,828. 2 Claims. (Cl. 114—0.5.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

1. A sea going water craft comprising a plurality of supporting hulls, with propelling means, positioned in the water beneath the disturbed sea surface said hulls being arranged so that the propelling means of each hull will operate on water undisturbed by the propelling means



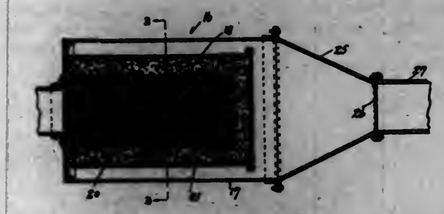
of the other hulls, struts extending upwards from each of said hulls to a position above the disturbed sea surface, and load carrying means supported by said struts.

1,753,400. PRESSING INSTALLATION FOR FREIGHT CARS. HOLMES BRYSON, Groveland, Fla. Filed Nov. 6, 1928. Serial No. 317,528. 3 Claims. (Cl. 105—369.)



1. In a press for box cars, a support within one end of the car, a gear frame anchored to said support, a plurality of gears within the frame, means extending through one end of the car for rotating the gears, a press board between the remote end of the car and said gear frame, and cooperating means between the press board and said gears to cause the reciprocatory movement of the board in reverse direction, during the reverse rotation of said gears.

1,753,401. SAFETY APPARATUS FOR OIL-STORAGE TANKS. HENRY J. BUCKING, San Francisco, Calif. Filed Nov. 24, 1926. Serial No. 150,558. 2 Claims. (Cl. 220—88.)



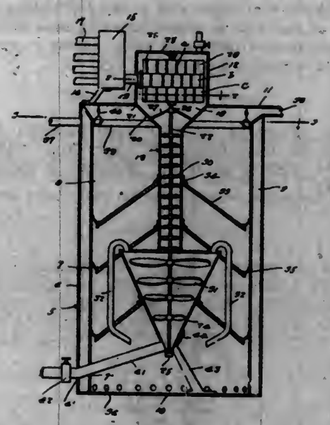
1. In a device of the type described, a casing having a screened inlet and a screened outlet, a screened cylinder mounted in said casing and connecting with the inlet end, said cylinder having a closed end and the wall of said cylinder being spaced from said casing, a second screen cylinder disposed withi said first cylinder and being spaced therefrom said second named cylinder having one end connecting with the inlet and having its other end closed by a screen, the space between the screened cylinders being filled with a fibrous material.

1,753,402. ELECTRIC MEASURING INSTRUMENT. MOSES E. CHENEY, Bayport, N. Y., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Oct. 20, 1927, Serial No. 227,899. Renewed Dec. 7, 1929. 8 Claims. (Cl. 171—95.)



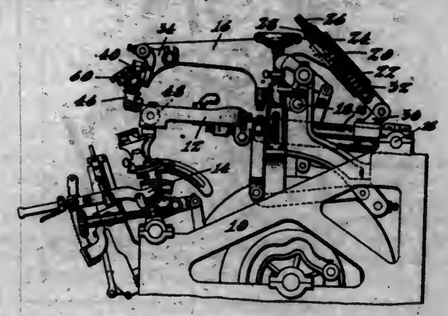
5. In an instrument of the character specified the combination of current coils arranged at an angle one to the other forming an open field between them with an armature positioned in said open field and a magnetic member adjacent said coils and armature and partially enveloping said coils, said magnetic member being arranged to form with said armature a path for the flux through said armature from each of said coils, said path substantially encircling said coils and open field.

1,753,403. OIL SEPARATOR. JOSEPH W. CUSHMAN, JOHN D. EVERETT, and CLINTON J. FARRELL, Vernon, Tex., assignors to John F. Merrick and W. A. Teague, Wichita County, Tex., R. E. L. Saner, said Farrell, and said Everett. Filed Mar. 30, 1929. Serial No. 351,398. 7 Claims. (Cl. 210—61.)



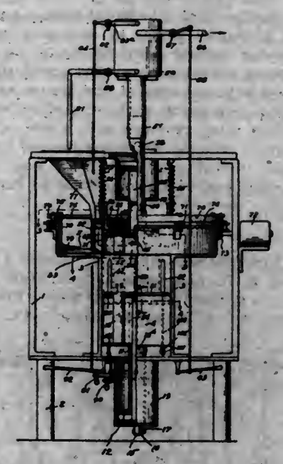
1. In a device of the class described, a cylindrical tank comprising a pair of spaced walls dividing the same into an inner and outer chamber, a receiving head formed on the top of the tank and provided with an opening, an intake funnel formed centrally of and depending from the top of the cylinder into said inner chamber and communicating with the opening in the receiving head, a trap formed on the lower end of said funnel, a shaft journaled in the funnel and extending into the head and trap, cutting blades on the shaft and located within the funnel and trap, a power wheel on the upper end of the shaft and adapted to rotate within said receiving head.

1,753,404. LEVELING MACHINE. HERMAN A. DAVENPORT, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 8, 1926. Serial No. 147,007. 14 Claims. (Cl. 12—34.)



1. In a leveling machine, a tool arranged to pass progressively over and off the heel-seat of a shoe by relative movement of the tool and the shoe, and means positively connected to said tool and arranged to engage the bottom of the shoe to support the tool at approximately the level of the heel-seat after it has passed therefrom, whereby the tool may return to the heel-seat without undue pressure on the edge of said heel-seat.

1,753,405. APPARATUS FOR MOLDING PLASTIC BLOCKS AND THE LIKE. GEORGE C. DEBAY, Los Angeles, Calif. Filed June 8, 1927. Serial No. 197,346. 18 Claims. (Cl. 25—103.)

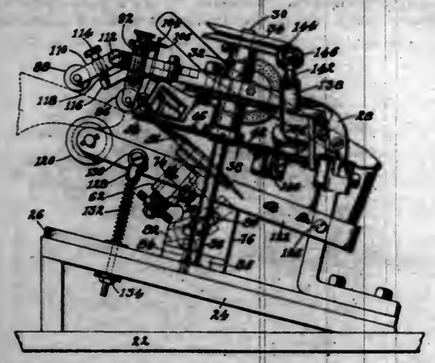


1. Apparatus of the character described comprising a mixing trough and a mold box adapted for movement in opposite directions relative to the mixing trough; the respective opposite movements of the mold box adapting it to receive plastic material from the mixing trough, and for convenient removal of the molded product from the mold box.

1,753,406. TRIMMING MACHINE. SIDNEY J. FINN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 9, 1928. Serial No. 298,594. 21 Claims. (Cl. 12—33.5.)

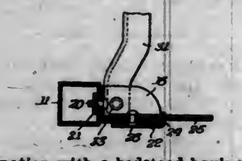
1. A machine of the character described comprising a flexible power-driven cutter the cutting edge of which ex-

tends lengthwise of its path of travel, and anti-friction rolls arranged to bear against opposite faces of said cutter



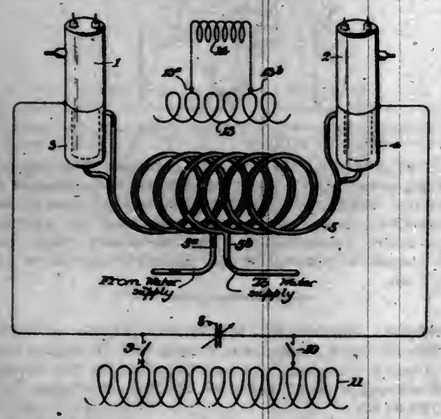
at points relatively to which the cutter moves and thereby to impart an abnormal curvature to the cutting edge of a work-engaging portion of the cutter.

1,753,407. BED-RAIL LOCK. STANLEY B. GAMBLE, Oakland, Calif. Filed Apr. 29, 1926. Serial No. 105,368. 2 Claims. (Cl. 5—294.)



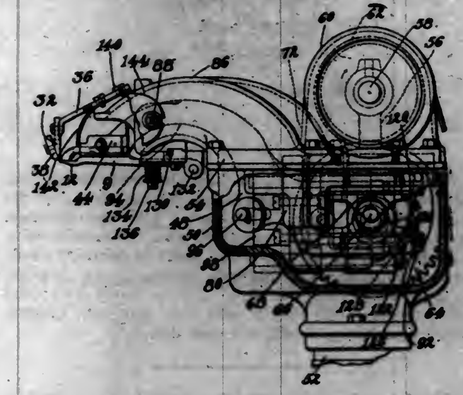
1. In combination with a bedstead having a post, a side rail therefor, a tongue carried by said post, one edge of said tongue being inclined with respect to the other edge thereof, a locking plate having a right angularly bent portion engageable with one edge of said tongue and an offset camming portion engageable with the inclined edge of said tongue, said rail being provided with a slot, a tongue on said bent portion lying in the plane thereof and forming a continuation thereof secured in said slot, and means extending through said camming portion for further securing said plate to the rail.

1,753,408. INDUCTANCE SYSTEM. LOUIS A. GEBHARD, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 22, 1928. Serial No. 327,988. 8 Claims. (Cl. 175—359.)



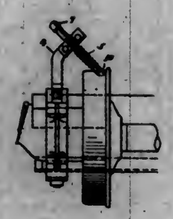
1. An inductance system comprising in combination a metallic member of helical form providing a double passage for the circulation of liquid and means provided at the electrical center of the inductance whereby said liquid may be admitted to said passage.

1,753,409. TACK-PULLING MACHINE. GEORGE GODDU, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 19, 1926. Serial No. 102,965. 38 Claims. (Cl. 12—16.)



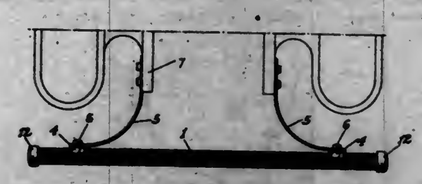
1. A tack pulling machine for successively withdrawing tacks arranged in a row in a boot or shoe having, in combination, tack pulling means comprising a jaw the forward end of which is sharpened to a single point to facilitate its insertion between successive closely spaced tacks in the row of tacks, and means for moving said jaw laterally of the row of tacks to insert said pointed end between successive tacks and then moving it away from the shoe in withdrawing a tack.

1,753,410. FLANGE OILING AND SAFETY DEVICE. GEORGE W. GRISMORE, Salt Lake City, Utah. Filed Sept. 26, 1928. Serial No. 308,469. 2 Claims. (Cl. 184—3.)



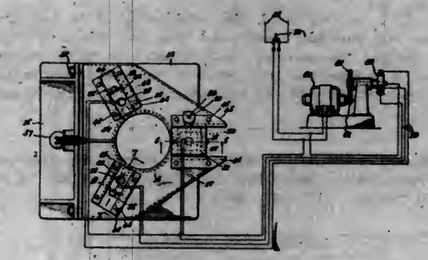
1. In a lubricator for wheel flanges, a tube supported above and at an angle with respect to the car wheel and directed toward the flange thereof, a spring influenced lubricant stick carried by the tube, movable therethrough and designed to contact with the flange of the wheel, a helical spring fixed on the tube, and a short compressible pipe screwed in the convolutions of the spring and disposed over the tube and projecting beyond the outer end thereof, and partly covering the projecting end of the lubricant stick.

1,753,411. RUBBER-COVERED SPRING BUMPER. CHARLES H. GUNN, Alameda, Calif. Filed Apr. 16, 1929. Serial No. 355,501. 5 Claims. (Cl. 293—55.)



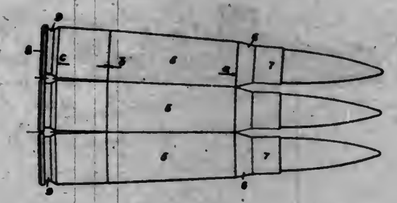
1. A bumper including a tubular body of resilient yieldable material, a stiffening bar mounted along the back of the body, and longitudinally spaced compression springs disposed in the body at intervals, between the bar and the front face of the body to resist inward deflection of said face.

1,753,412. ELECTRIC PACKER. MOSES A. HARRIS, Milford, Conn. Filed June 20, 1929. Serial No. 372,388. 9 Claims. (Cl. 259—72.)



1. In an electric packer, a plurality of vibrators extending in a circle at spaced intervals about the device to be packed and positioned to strike the sides of the device, and means for energizing said vibrators in circular sequence.

1,753,413. CARTRIDGE CASE. JULIAN S. HATCHER, Philadelphia, Pa. Filed Mar. 9, 1928. Serial No. 260,481. 7 Claims. (Cl. 102—16.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



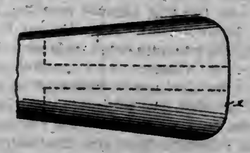
7. A cartridge case, including a body, a rim greater than any diameter of the body yet within the trace of the forward portion of the body.

1,753,414. STRAIGHTEDGE. JOSEPH WILLIAM HELTZEL, Warren, Ohio. Filed Aug. 13, 1925. Serial No. 49,998. 2 Claims. (Cl. 94—45.)



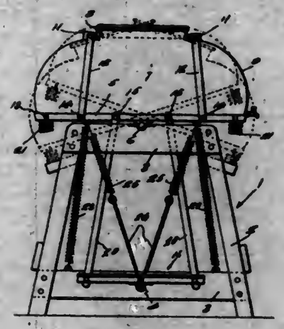
1. A straight edge for use in the building in concrete surfacing structures comprising a tubular metal member of angular cross-section adapted to be placed on the surface of plastic concrete, and a handle having one end connected to said member between the ends of and at right angles with said member, for manipulating said member over the surface of the concrete.

1,753,415. SHOE WITH INSTEP PADS. DONALD McKNIGHT HEPBURN, Philadelphia, Pa. Filed June 6, 1928. Serial No. 283,804. 3 Claims. (Cl. 36—54.)



1. A shoe comprising a pair of soft cushion pads supported one on each side of the "lacing slit" of the shoe, said pads being thinner at the outer edges than at the edges adjacent the lacing slit, and located so as to be longitudinally spaced when the shoe is laced and to rest on each side of the front bones of the instep, said pads arranged to hold the lace from exerting pressure on said front bones on the instep when the shoe is laced.

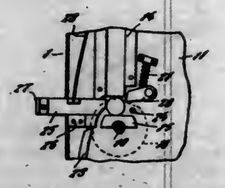
1,753,416. WASHING MACHINE. AVERY W. HIGGINS and SETH G. RUDD, Greensboro, N. C. Filed Oct. 20, 1928. Serial No. 313,854. 2 Claims. (Cl. 259—75.)



1. In a washing mechine, a stand, a substantially rectangular shaped frame mounted for movement on the stand, a closed receptacle having rounded end portions, means for securing the receptacle on the frame including pairs of links pivotally connected at their lower ends on the respective sides of the frame, locking bars mounted transversely between the upper ends of each pair of links and adapted to be forcibly engaged across the top of the receptacle, said locking bars being capable of swinging movement outwardly over the rounded ends of the receptacle to an inoperative position.

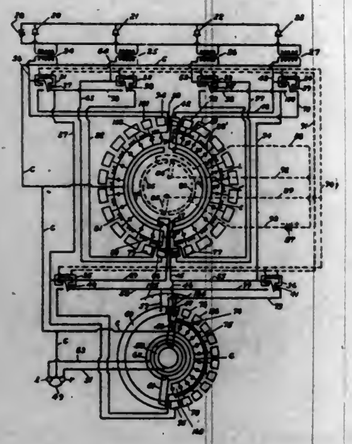
ATLANTA GA VOLUME

1,753,417. VENDING MACHINE. GEORGE HOPPE, Baltimore, Md. Filed Sept. 20, 1928. Serial No. 307,157. 1 Claim. (Cl. 194—61.)



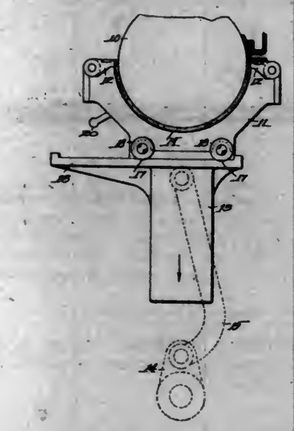
In a coin controlled locking means, a rotatable shaft, a disc secured on the shaft for rotation therewith and provided with a notch in its peripheral edge, said disc being formed with additional notches in its peripheral edge in a quadrant opposite the quadrant in which the aforementioned notch is located, a pivoted dog normally held in engagement with the first mentioned notch, a pawl normally held in engagement with one of the second mentioned notches, said elements cooperating to normally lock the shaft and the disc against rotation, a coin chute, the lower end thereof terminating adjacent the free end of the pivoted dog, a plate supported adjacent the disc below the lower end of the chute and to one side of the pivoted dog to provide a rest for a coin deposited in the chute, the free end of the pivoted dog being disposed in the path of movement of the coin when the same rests on the plate, a pin extending laterally from the disc and located adjacent the first mentioned notch for engagement with the coin, means for moving the coin along the plate to raise the pivoted dog to an inoperative position.

1,753,418. DIRECTION FINDING. BEVERLY R. HUBBARD, Higganum, Conn., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Apr. 18, 1927. Serial No. 184,826. 11 Claims. (Cl. 177—386.)



1. In a system for determining the direction of a source of wave energy a plurality of receivers of wave energy, a plurality of compensating paths for bringing the energy received by the several receivers into the same phase, said paths having adjustable compensating lengths and feeding the energy of each receiver into the beginning of the compensating length at the next adjacent receiver and indicating means to indicate when said energy is in phase.

1,753,419. SEPARABLE CASTING BOX FOR STEREOTYPE PRINTING PLATES. JOHN A. ISBELL, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Mar. 4, 1927, Serial No. 172,599. Renewed Aug. 14, 1929. 5 Claims. (Cl. 22—2.)



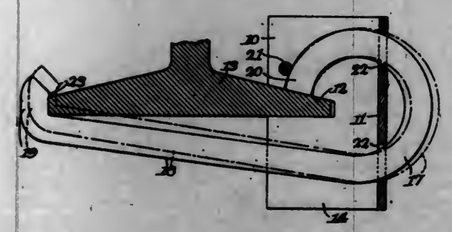
1. In a casting mold, the combination with two mold parts, one movable toward and from the other, of means for guiding the movable mold member to move substantially in a direction transverse to its first named motion to expose its interior at the side of the other mold part.

1,753,420. VEHICLE SPRING. JOSEPH N. JOHNSON, Irwin, Calif. Filed Feb. 23, 1926. Serial No. 90,129. 10 Claims. (Cl. 267—35.)



1. It will permit a greater vertical play or range than the usual type of spring.

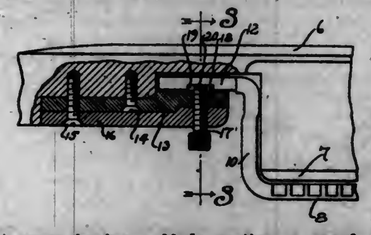
1,753,421. RAIL ANCHOR. LOUIS KADAR, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1929. Serial No. 340,746. 16 Claims. (Cl. 238—329.)



1. A rail anchor comprising a clip for gripping one of the rail base flanges, a spring loop adapted to extend about the same base flange and be compressed on installation to hold the clip in position, and a retaining bar for the spring loop adapted to engage the opposite base flange.

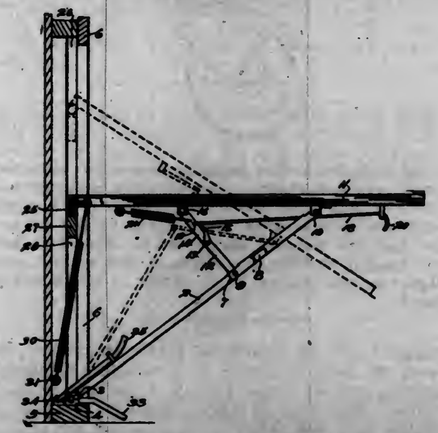
CARNEGIE LIBRARY OF ATLANTA

1,753,422. RAZOR. HARRY A. KAUFMANN, Highland Park, Mich. Filed Sept. 20, 1928. Serial No. 307,102. 9 Claims. (Cl. 30—12.)



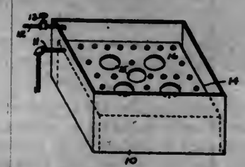
1. A razor having a blade portion, a guard for the blade edge swingable over the edge on either side thereof thru an arc of approximately 180°, means normally restricting said swinging movement to position the guard slightly off center of the blade edge, on either side thereof, and permitting the full swinging movement when abnormal pressure is applied thereto tending to swing it, said means being fixedly positioned longitudinally of the blade.

1,753,423. BUILT-IN FURNACE. LOUIS A. KROSCHEL, deceased, Los Angeles, Calif., by Ellena R. Kroschel, administratrix, Albany, Oreg. Substitute of application Serial No. 107,155, filed May 6, 1926. This application filed May 20, 1929. Serial No. 364,668. 3 Claims. (Cl. 45—51.)



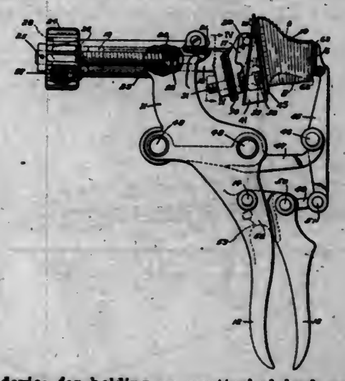
1. Wall furniture having, in combination, a set of guides, a board having trunnions sliding along in said guides, and a stabiliser connected to the board and having ends running in the guides and preventing side tilting of the board.

1,753,424. FLORIST'S WATER FOUNTAIN. CLEMENT J. LANTERNIER, Fort Wayne, Ind. Filed Apr. 5, 1929. Serial No. 352,787. 3 Claims. (Cl. 137—21.)



1. A water fountain comprising a tank, means to supply a flow of water through the tank at a controlled depth, and a removable support for water sprayers within the tank.

1,753,425. HEEL-CLAMPING DEVICE. LESTER S. MACDONALD, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Nov. 20, 1922. Serial No. 602,120. Divided and this application filed Feb. 8, 1928. Serial No. 251,682. 21 Claims. (Cl. 12—87.)



1. A device for holding an unattached heel comprising relatively movable jaws connected to each other in cooperative clamping relation and provided with plates one to engage the attaching face of a heel while the other engages the toplift face thereof, means carried by one of said jaws to adjust and maintain the plate thereof in various angular relations to the other one of said plates according to the wedge angle of the heel, and means for relatively moving said jaws to clamp the heel.

1,753,426. TIE-ROD FASTENING. STEPHEN PAUL, Lansing, Mich. Filed Mar. 22, 1926. Serial No. 96,593. 5 Claims. (Cl. 287—114.)



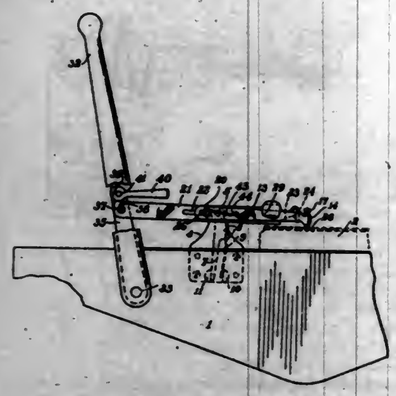
1. In a rod fastening of the character described, the combination with a rod having the end portion of the rod provided with a concave curving side, of a member having a passage for the rod, the said member having a cylindrical chamber formed in communication with the said passage and inclined thereto, a plug wedge movable lengthwise in the said chamber with respect to the rod, the end of the rod and one side of the wedge having curved surfaces in contact, and means for moving the plug wedge towards the end of the rod in contact with the wall of the chamber and end portion of the rod.

1,753,427. WADING TANK. JOHN H. PHILLIPS, Pittsburgh, Pa. Filed Aug. 26, 1927. Serial No. 215,584. 14 Claims. (Cl. 4—177.)



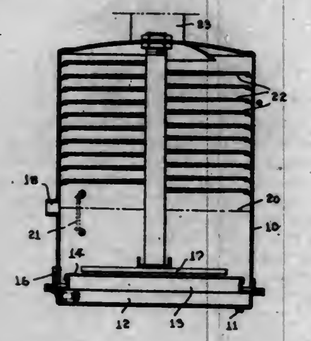
1. A tank structure comprising a flexible body portion, a framework therefor composed of pipe sections detachably connected, and means for detachably securing the said body portion to the framework, the framework extending from a plane above the upper edges of the body portions downwardly along the outer sides thereof.

1,753,428. INDEXING MECHANISM FOR CHASE PLATES AND PRINTING SEGMENTS. FRANK H. POEPPELMEIER, Dayton, Ohio, assignor to The Typographic Machines Company, Dayton, Ohio, a Corporation of Ohio. Filed Oct. 20, 1928. Serial No. 313,777. 10 Claims. (Cl. 276—3.)



1. In a device of the type described, a support, a chase plate on said support, a cam bar, means for imparting a forward and reverse movement to said cam bar, and an index pawl adapted to be actuated by said cam bar to index said chase plate.

1,753,429. APPARATUS FOR PRODUCING FOAM. JOHN A. RICB, Berkeley, Calif., assignor to The Bubblestone Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 26, 1926. Serial No. 144,389. 19 Claims. (Cl. 261—122.)



1. In an apparatus for continuously forming a comminuted foam, a container, means to supply a foaming liquid to such container, means to supply subdivided air below the surface of said foaming liquid, and walls forming a circuitous passage to transport foam actuated by the air supply means away from the liquid.

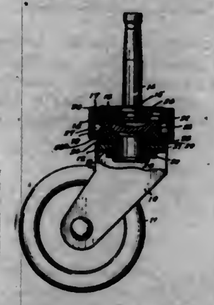
1,753,430. SHOCK ABSORBER. GEORGE GROSELLI, Dallas, Tex. Filed Apr. 14, 1928. Serial No. 270,053. 2 Claims. (Cl. 267—48.)

1. A vehicle spring attachment including a metal strip having U-shaped central bend and having its ends rolled to form eyes, a pair of U-shaped members having their closed ends received in said eyes, and having their free ends formed with eyes, sleeves between the last named eyes, bolts passed through the last named eyes, said sleeves being formed to engage one of the horizontal faces of a vehicle spring, and a screw threaded through



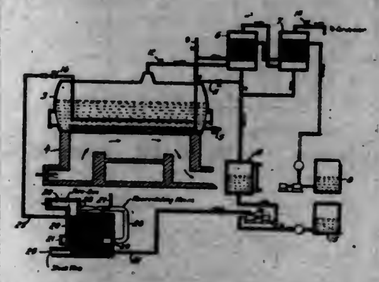
said U-shaped bend and engageable with the opposite horizontal face of the spring and having its head located at the open end of the U-shaped bend.

1,753,431. CASTER. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 14, 1929. Serial No. 339,802. 10 Claims. (Cl. 16—21.)



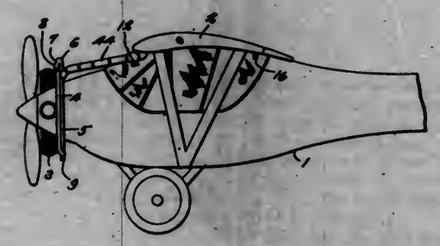
1. In a caster, a floor engaging element, an attaching element, and a ball-bearing assembly unit including relatively rotatable inner and outer ball-race members and antifriction balls between them, means carried by said inner ball-race member adapted to be secured to said floor engaging element, and means carried by said outer ball-race member adapted to be secured to said attaching element.

1,753,432. ART OF CRACKING HYDROCARBONS. EDWARD W. ISOM, Scarsdale, N. Y., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed May 25, 1927. Serial No. 194,002. 2 Claims. (Cl. 196—116.)



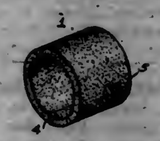
1. In cracking hydrocarbon oils in operations in which a flowing stream of oil is heated to a cracking temperature by heat exchange with hot products of combustion from a firebox in which fuel is burned, the improvement which comprises passing a stream of oil through a heating conduit and passing heating gases including hot products of combustion from a firebox in heat exchanging relation therewith whereby the oil is heated to a cracking temperature and the temperature of the heating gases is progressively reduced, withdrawing a portion of the heating gases from an intermediate point in the passage of the heating gases over the heating conduit at an intermediate temperature, recycling such withdrawn heating gases over the heating conduit in admixture with fresh hot products of combustion from the firebox, and discharging the remaining portion of the heating gases after further passage over the heating conduit and at a lower temperature than that at which the recycled heating gases are withdrawn.

1,753,433. AEROPLANE-WING HEATER. JAMES A. KIND, Petersburg, Va. Filed July 2, 1928. Serial No. 289,755. 3 Claims. (Cl. 244—31.)



3. The combination with an air craft including an engine and a wing, of an air conduit extended into the wing and including a member disposed in such relation to the engine as to be heated by the engine, the lowermost portion of said member being provided with a water trap, and the upper end of said member being provided with an air inlet.

1,753,434. BEARING BODY AND METHOD OF MAKING SAME. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 6, 1927. Serial No. 217,658. 2 Claims. (Cl. 29—149.5.)



1. The method of making lined bearings which consists in forming a sheet into a cylinder having a pressure-tight butt joint, minutely roughening the inner surface thereof by a percussive action, tinning such surface, casting a layer of bearing metal on such roughened surface, and machining the outer and inner surfaces of the composite articles thus formed.

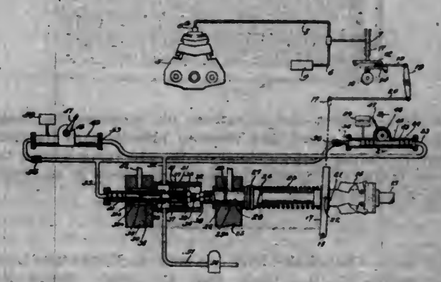
2. A cylindrically curved bearing blank having a surface provided with a multiplicity of minute irregularly arranged recesses produced by a percussive action.

1,753,435. METHOD OF MAKING LINED BEARINGS. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 9, 1928. Serial No. 245,814. 4 Claims. (Cl. 29—149.5.)



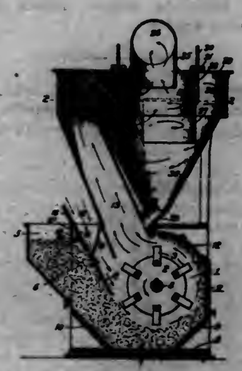
1. In a method of making lined bearings, the steps which consist in subjecting a strip of sheet metal to a percussive action to produce a multiplicity of minute irregular recesses therein, tinning said surface, and then casting a bearing material capable of alloying with tin over the tinned surface of said strip.

1,753,436. GOVERNOR CONTROL. CARL H. KNUDSEN, Brooklyn, N. Y. Filed Feb. 19, 1926, Serial No. 89,322. Renewed July 19, 1928. 18 Claims. (Cl. 264—3.)



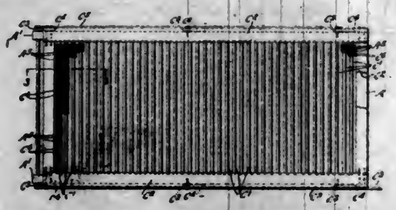
1. A governor control including a governor spring comprising a hydraulically actuated piston in operative connection with the governor spring, means for directing liquid to said piston, a control and regulating device having a manually operated plunger, a valve member in operative connection with said piston, means for exposing one end of the plunger to the liquid directed to said piston, and the other end of said plunger being exposed to said valve member through a liquid having a source of supply controlled by said plunger.

1,753,437. MATERIAL REDUCING AND MEANS THEREFOR. HENRY G. LYKKEN, Minneapolis, Minn. Filed Nov. 13, 1925. Serial No. 68,750. 21 Claims. (Cl. 83—11.)



1. A device for reducing materials, comprising a reducing chamber, and a charging chamber having communication with the lower part of the reducing chamber for feeding the material from the charging chamber to said lower part of said reducing chamber, means for drawing air continuously through the chamber, and means for causing the air to reduce the material in the chamber to a finely divided state by erosion.

1,753,438. PATTERN BED FOR TYPECASTING MACHINES AND THE LIKE. CHESTER A. MACOMIC, Chicago, Ill., assignor to Patent Product Corporation of Chicago, Wilmington, Del., a Corporation of Delaware. Filed Dec. 15, 1928. Serial No. 326,179. 16 Claims. (Cl. 276—3.)



1. In a pattern bed, a pattern pin mounted for longitudinal displacement and recessed intermediate its ends, a bar extending perpendicular to the pin lying within the recess, means for moving the bar transversely to longitudinally displace the pin.

1,753,439. CLOTHESLINE. HARRY A. MARRABLE, Linoleumville, N. Y. Filed Aug. 13, 1928. Serial No. 299,371. 1 Claim. (Cl. 68—3.)



In a device for the purpose set forth, two oppositely disposed supporting frames carrying grooved wheels, each of said frames having its overlying members of T-shape formation with the arms of the T extending in the same direction, elements connecting the ends of the said overlying members of each frame, an endless clothes line trained around the grooved whels, an auxiliary clothes line having its ends secured to the clothes line, spaced short flexible elements connecting the auxiliary clothes line with the endless clothes line, whereby clothes supported on the auxiliary clothes line will thru the medium of the flexing of the ends of said auxiliary clothes line and likewise of the flexing of the short strands be held from entering the frames when the endless clothes line is moved around the grooved wheels.

1,753,440. METHOD OF DRILLING WELLS IN GAS FORMATIONS. NED O. MILLER, Amarillo, Tex. Filed May 17, 1927. Serial No. 192,001. 10 Claims. (Cl. 255—1.)



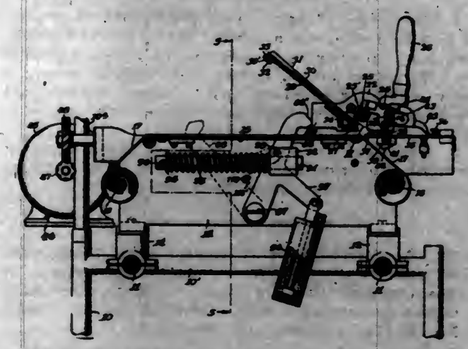
1. A method for drilling wells through gas formations comprising landing an outer casing above the gas formation, equipping said casing with means to prevent blowout, lowering an inner string through said means and continuing drilling below said casing, both said drilling and said lowering being accomplished while maintaining a pressure in said string sufficient to balance gas pressure encountered outside the string.

1,753,441. SCREW DRIVER. FRANK MORRHOUSE, Gloversville, N. Y. Filed Mar. 27, 1929. Serial No. 350,867. 2 Claims. (Cl. 145—75.)



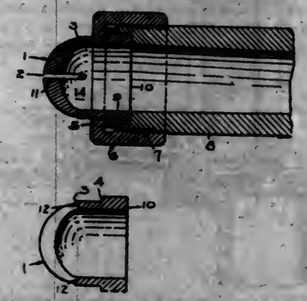
1. A tool construction comprising a handle having a longitudinal bore, a sleeve revolvably mounted within the bore of the handle having a rectangular bore, a ratchet driving connection established between the handle and sleeve, a detachable extension sleeve carried by the first mentioned sleeve forming a guide for tool shanks extended through the bore of said first mentioned sleeve, a locking element carried by the sleeves having engagement with the extension sleeve and tool shank, a ratchet member carried by and operable in conjunction with said extension sleeve and first mentioned sleeve, and an extension for the latter mentioned ratchet member operable at rightangles to and in conjunction with said handle.

1,753,442. DUPLICATING MACHINE. WILHELM K. MOLL, Chicago, Ill., assignor to Ditto, Inc., Chicago, Ill., a Corporation of Illinois. Filed Nov. 12, 1928. Serial No. 318,808. 22 Claims. (Cl. 101—133.)



1. In a duplicating machine, the combination with a printing bed and a platen carriage reciprocable thereover, of a margin bar at one end of the bed, a fixed paper sheet stop on said margin bar, a shiftable paper sheet stop spaced from said fixed stop, and means actuated by the platen carriage for moving said shiftable stop into and out of operative position.

1,753,443. TIP FOR SPRAYING NOZZLES. JOHN D. MURRAY, San Francisco, Calif. Filed May 31, 1927. Serial No. 195,281. 12 Claims. (Cl. 299—153.)

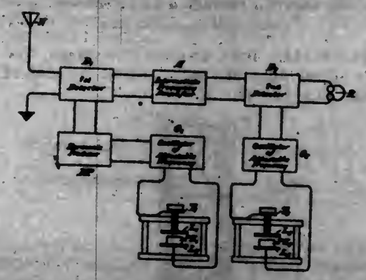


1. A tip for discharging fluids under pressure formed in the shape of a dome provided with a discharge slot, the walls of said slot having defining edges in register and being of maximum width at the center and diminishing in width in the same degree of gradation in each direction therefrom, said slot terminating in end walls that form an angle of less than ninety degrees with the longitudinal axis of the tip, in the direction of the flow of liquid.

10. A nozzle tip having a kerfed body portion, said kerf having opposing walls in relative parallelism, the respective outer and inner edges of each of said walls being defined by segments of a circle struck with equal radii from spaced points on the axial line of the kerf taken in direction of flow through the kerf.

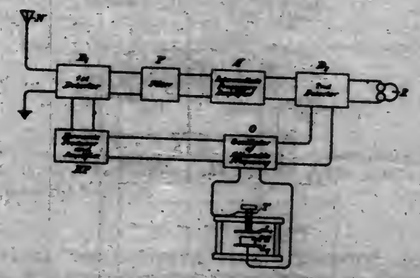
12. A tip for discharging fluids under pressure, which tip is provided with a discharge orifice having oppositely disposed walls, means to create maximum resistance to the discharge of fluids through said orifice at a portion thereof between the ends of the orifice, and means to diminish the resistance to the discharge of the fluid in equal degrees in each direction from said portion of maximum resistance to the ends of said orifice, the opposed surfaces of said oppositely disposed walls of the discharge orifice being characterized by identity.

1,753,444. SIGNALING SYTEM. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 8, 1926. Serial No. 140,387. 3 Claims. (Cl. 250—20.)



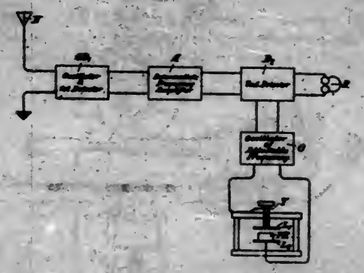
1. In a signaling system, the combination of means for receiving a band of signals of high frequency, two local oscillators, piezo-electric means for controlling and varying the frequency of said oscillators, means for producing a harmonic of the frequency of the first oscillator which will be similarly controlled and varied as to frequency by said piezo-electric means, means for beating said piezo-electrically controlled and varied harmonic of the first oscillator with the band of signals to produce a corresponding band of signals lowered in the frequency spectrum, and means for beating the piezo-electrically controlled and varied frequency of the second oscillator with the band of signals lowered in the frequency spectrum in order to accurately reproduce the original signals.

1,753,445. SIGNALING SYSTEM. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 8, 1926. Serial No. 140,388. 7 Claims. (Cl. 250—20.)



1. In a signaling system, the combination of means for receiving a band of signals of high frequency, an oscillator, piezo-electric means for controlling the frequency of said oscillator, said piezo-electric means including means to vary its vibratory characteristic in order to correspondingly vary the frequency of said oscillator, means for heating said piezo-electrically controlled and varied frequency with the band of signals of high frequency to produce a corresponding band of signals displaced in the frequency spectrum, and means for again beating the piezo-electrically controlled and varied frequency with the band of signals displaced in the frequency spectrum to derive and detect the original signals.

1,753,446. SIGNALING SYSTEM. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 8, 1926. Serial No. 140,389. 2 Claims. (Cl. 250—20.)

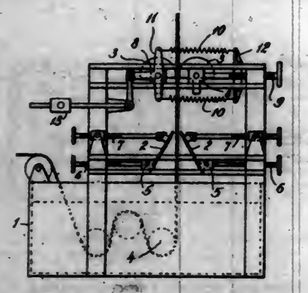


1. In a signaling system, the combination of means for receiving a side band of high frequency energy characteristic of speech signals, means for producing another band of signals corresponding to the received side band but changed in the frequency spectrum, an oscillator generating a wave to be beaten with the band of signals changed in the frequency spectrum, a piezo-electric structure connected to the oscillator for controlling the frequency of the generated wave, means for varying the vibratory period of the piezo-electric structure so as to correspondingly vary the frequency of the wave generated by the oscillator, and means for beating the piezo-electrically controlled and varied frequency of the oscillator with the band of signals changed in the frequency spectrum in order to accurately reproduce the speech signals.

1,753,447. TREATING FABRICS. LE ROY SEIDELL and GEORGE B. JACK, Jr., New York, N. Y., assignors, by mesne assignments, to Jaton Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed June 10, 1925. Serial No. 36,107. 5 Claims. (Cl. 91—82.)

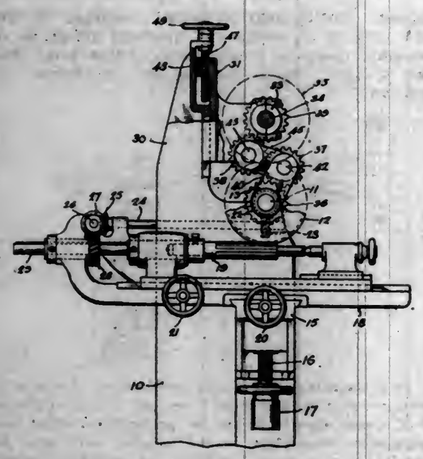
1. A pressure bar, for use in apparatus for impregnating sheet material, comprising a body portion having a

continuous convex edge adapted for engagement with sheet material moving thereover, the surface of the body portion on one side of said edge gradually receding from a plane tangent to the normal line of contact on said edge,



a concavity in the body portion on the other side of said edge concave with respect to said convex edge, and a convex surface on the body portion connecting the said concavity and the said convex edge.

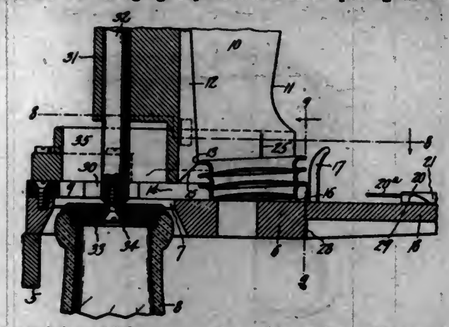
1,753,448. MACHINE FOR TRUING GRINDING WHEELS. CHARLES S. SMITH, Milwaukee, Wis., by judicial decree of distribution and assignment to Galbraith Mayo Smith, trustee, Shorewood, Wis. Filed Jan. 20, 1926. Serial No. 82,562. 2 Claims. (Cl. 125—11.)



1. In a machine of the class described, a grinding wheel having a grinding surface constituted as a helix, a truing wheel having a surface complemental to that of the grinding wheel, means connecting the said wheels for rotation in unison, and means for exerting pressure by the truing wheel upon the grinding wheel.

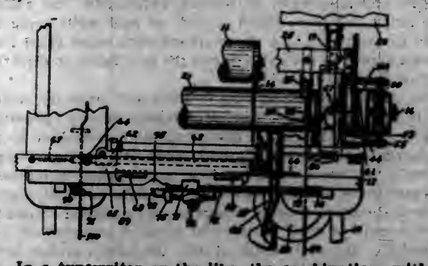
1,753,449. BOTTLE-CAPPING MACHINE. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor, by mesne assignments, to Bottle Cap Patents Company, Bordentown, N. J., a Corporation of New Jersey. Filed Feb. 25, 1928. Serial No. 256,890. 16 Claims. (Cl. 226—92.)

9. In a cap-applying machine, the combination with a cap-feeding table provided with an opening for applying caps to bottles presented to said opening, a hopper arranged above said cap-feeding table, said hopper being provided with a downwardly-enlarged opening on one side of its axis and an inclined surface on the opposite side of its axis for wedging caps toward said opening as they



descend in said hopper, and a slide reciprocable on said table for feeding caps to the cap-applying opening in said table.

1,753,450. CARRIAGE-RETURN MECHANISM. RUSSELL G. THOMPSON, Rochester, N. Y., assignor to Electromatic Typewriters, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 16, 1925, Serial No. 56,737. Renewed Mar. 6, 1929. 2 Claims. (Cl. 197—65.)



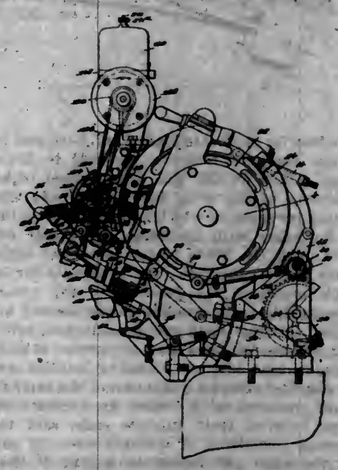
1. In a typewriter or the like, the combination, with a carriage and power-operated means for returning the carriage, of a buffer for arresting the carriage at the end of the return movement; a spring tending to return the buffer to fully operative position upon the subsequent feed movement of the carriage; and means operating automatically to prevent such return of the buffer until the carriage has been fed through a predetermined space.

1,753,451. WALL. JOHN EDMUND TONNELIER, New York, N. Y. Filed July 27, 1927. Serial No. 208,747. 16 Claims. (Cl. 72—44.)



1. A wall construction comprising two spaced walls each comprising a plurality of rows of blocks of hardened plastic material, the joints between the blocks of one row being staggered with respect to those of an adjacent row, each block being provided with holes extending substantially parallel to the face of said wall and to the ends of the blocks, the holes of a block of a given row being adapted to register with holes in the blocks of adjacent rows, first metallic members adapted to pass through the holes of adjacent rows, second perforated metallic members overlapping the joints between adjacent blocks of a given row and engaging said first metallic members, and third perforated metallic members extending between said spaced walls and engaging at their ends said first metallic members extending through the holes in the blocks located in the respective adjacent walls, binding together the respective blocks and rows of blocks in adjacent walls and the adjacent walls to each other.

1,753,452. SHOE MACHINE. LAURENCE E. TOPHAM, Wenham, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 15, 1927, Serial No. 175,460. Renewed June 28, 1929. 28 Claims. (Cl. 12—17.)



1. A machine for operating upon shoes having, in combination, a forepart edge tool, a shank edge tool, means for holding the tools alternatively in operating position, and a work feeding member making contact with the bottom of the shoe sole and adjustable to cooperate with either tool to feed the shoe past the tool.

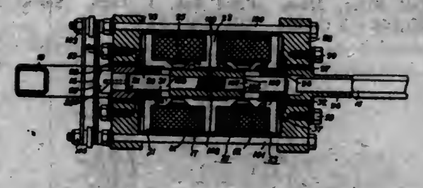
1,753,453. POSTING TRAY. RICHARD M. VAN VALKENBURGH, Kansas City, Mo., assignor, by mesne assignments, to Wilson-Jones Company, Chicago, Ill., a Corporation of Massachusetts. Filed June 6, 1927. Serial No. 196,909. 7 Claims. (Cl. 129—16.)



2. In a posting machine tray, a base, a pair of parallel rods disposed thereabove, a pair of wings adjustably carried by said rods and a pair of check members, mounted upon the base, one of said wings being anchored to said check members to limit the adjusting movement thereof along said rods.

1,753,454. ELECTRIC PERCUSSIVE TOOL. CARL S. WEYANDT, Pittsburgh, Pa., assignor to Central Electric Tool Company, a Corporation of Pennsylvania. Filed Mar. 30, 1925. Serial No. 19,811. 9 Claims. (Cl. 172—126.)

1. An electric motor of the reciprocating type comprising two solenoids axially disposed upon a tubular frame, a bearing removably mounted on each end of the frame, and a core responsive to the two solenoids and comprising two parts, one being a magnetic element actuable by



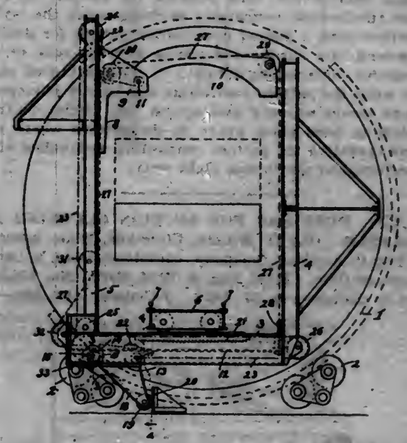
the solenoid flux and the other being a non-magnetic support therefor and serving as a shaft movable within and between the bearings.

1,753,455. BRAKE-LEVER CONNECTER BODY. LOREN L. WHITNEY, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1925. Serial No. 672. 4 Claims. (Cl. 78—81.)



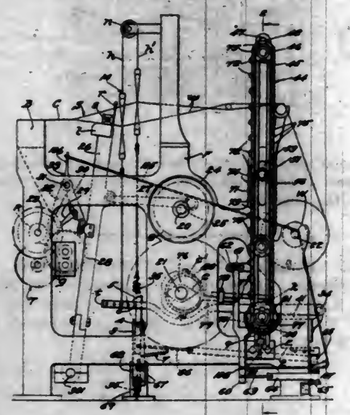
2. The method of forming brake lever connecter bodies or the like, which comprise hammering the end of a flat blank to form an elongated cylindrical portion joined to the body of the blank, compressing the blank longitudinally to shorten said cylindrical portion and enlarging the base thereof and forming a shoulder thereon in a manner to convert said cylindrical portion into a truncated cone, removing the flash and then further shortening said truncated cone and enlarging its outer portion to produce a shortened and enlarged cylindrical finished end.

1,753,456. CAR-DUMPER CLAMP. ARTHUR F. CASE, Cleveland, Ohio, assignor to The Wellman-Seaver-Morgan Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 2, 1927. Serial No. 165,262. 24 Claims. (Cl. 214—55.)



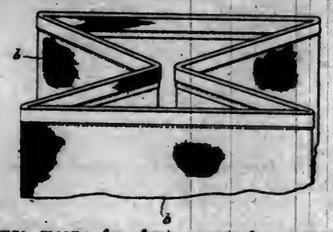
1. In a car dumper, a cradle adapted to receive a car and mounted for tilting movement to dump the same, a car clamp movably mounted on said cradle, oppositely disposed cables connected to said clamp, a member movably mounted on the cradle and connected to said cables, and releasable means for locking said member to the cradle to hold the clamp in car engaging position.

1,753,457. LOOM. JOSEPH THEXTON, Jr., and HENRY TOMLINSON, Fall River, Mass., assignors of one-fourth to Joseph E. Freeling and one-fourth to Frank Riley, Fall River, Mass. Filed Feb. 1, 1928. Serial No. 251,152. 7 Claims. (Cl. 139—24.)



1. A loom adapted to weave plain cloth having an attachment whereby it is adapted to weave a border comprising cords consisting of a plurality of picks alternating with plain weave, said attachment comprising means for restraining the harness at predetermined times while a plurality of picks are being laid to form one of the cords, a pattern controlling member consisting of a cam carrier, a plurality of cams carried by said carrier to actuate the restraining mechanism according to the pattern to be formed, a driving shaft, clutch mechanism on said shaft adapted to make and break driving connection with said cam carrier, means for actuating the clutch engaging mechanism to cause the cam carrier to be moved and to bring one of its cams into operative position to restrain the harnesses while the cord is being laid, means for holding the clutch engaged to advance the pattern controlling cam carrier during the restraint on the harnesses, means for holding the clutch engaged to advance the said cam carrier into position for another cam to actuate the harness restraining mechanism for the laying of another cord, a second cam carrier, means for driving said second cam carrier and means whereby said second cam carrier controls the duration of the continuous plain weave while the pattern controlling cam carrier is inoperative and means whereby said second cam carrier controls the shifting from plain weave to the pattern weave and renders operative the pattern controlling mechanism after a predetermined continuous plain weave.

1,753,458. DUST BAG FOR SUCTION CLEANING APPARATUS. OLO C. WILLIS, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 8, 1924, Serial No. 730,837, and in Canada Aug. 31, 1923. 2 Claims. (Cl. 150—6.)



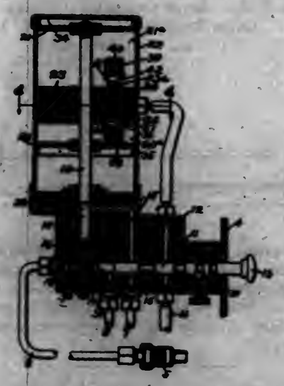
1. Closure means for dust receptacles, comprising a fabric container having an open mouth and a frame within said mouth further comprising hinged collapsible metallic members folded within the compass of two opposing principal members of said frame, said members being enclosed within the body of the fabric mouth, and means for sealing the mouth in approximately air tight relation when the frame is collapsed.

1,753,459. BLADE HOLDER AND HANDLE. JAMES A. GAFFNEY, New York, N. Y. Filed June 8, 1928. Serial No. 283,972. 1 Claim. (Cl. 30—9.)



A blade holder for perforate blades, cut, bent and formed from a single sheet of resilient material to provide a pair of arms joined at one end by a curved bight, the free end portions of the arms defining laterally disposed blade clamping jaws, one of which is provided with integral studs and the other with apertures, said studs adapted to extend through the blade perforations and engage in the apertures of the other jaw, and integrally formed interengageable means at the juncture of the arms with the jaws comprising an upstanding tongue having a laterally projecting terminal upon one of said arms, said other arm having an opening of a size to receive said tongue for maintaining said jaws in clamping relation and for permitting a limited relative separation of the same for the insertion and removal of a blade, by pressure exerted on the arms between their opposite ends, said interengageable means permitting of disengagement by pressure exerted on the arms and lateral movement of the same with respect to each other.

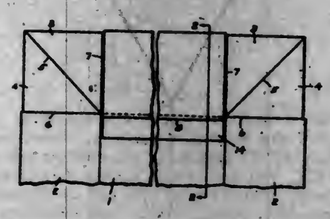
1,753,460. LUBRICATING SYSTEM. AMBRICO F. GARBARINO, Medford, Mass., assignor, by mesne assignments, to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Dec. 30, 1926. Serial No. 157,927. 9 Claims. (Cl. 184—7.)



1. In a central lubricating system having a lubricant supply and a plurality of parts for receiving lubricant from said supply, a suction pump device comprising means providing a lubricant chamber of relatively small cross-section adapted to receive lubricant from the lubricant supply, a piston operable in said chamber, a cylinder

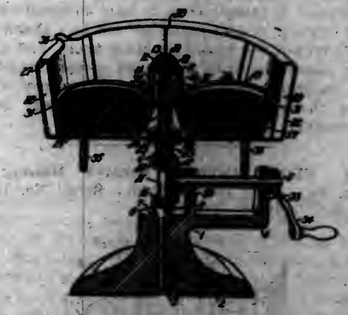
aligned with said chamber and divided into two sections, pistons in each of said sections connected to said first-mentioned piston for operation thereof, a source of suction supply, a valve device in said cylinder between said sections, said valve device operable by said pistons in said sections to control the admission of the suction and of the atmosphere at one side only of each piston and a push-button control for admitting or cutting off both the suction and the lubricant.

1,753,461. BOX. LOUIS H. GEBHART and STANLEY G. WISE, Dayton, Ohio, assignors to The Gebhart Folding Box Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 28, 1927. Serial No. 221,576. 4 Claims. (Cl. 229—34.)



1. In a container, a bottom, side walls hinged thereto, corner flaps, and an end wall, an end flap hinged to and overlying the end wall and having an overlapping serrated part attached to the bottom of the container, said end flap being adapted to be detached from the portion thereof attached to the bottom of the container along a serrated line.

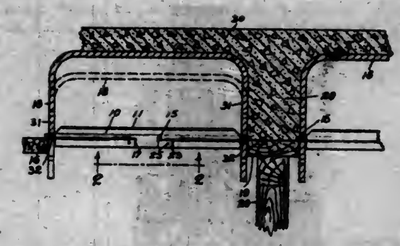
1,753,462. WATCH-CLEANING MACHINE. CHARLES H. GERRY, Kansas City, Mo. Filed Oct. 20, 1928. Serial No. 313,871. 6 Claims. (Cl. 141—1.)



2. In a device of the character described, a base, a vertical shaft rotatably mounted in the base, a pan having a central opening and rotatably mounted on the shaft, a plurality of baskets removably keyed to the shaft and suspended in the pan, and means rotatably supported by the base for rotating the pan and the shaft.

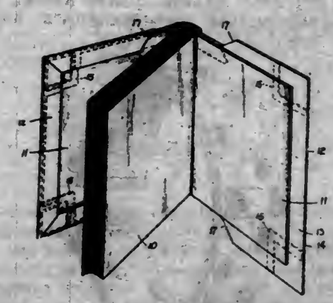
1,753,463. SPREADER FOR USE WITH METAL TILES. WILLIAM M. GOLDSMITH, Cincinnati, Ohio, assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 24, 1927. Serial No. 177,922. 10 Claims. (Cl. 25—131.5.)

8. A spreader comprising a housing member having a way extending lengthwise therethrough, the housing having a second way intercepting the first mentioned way, the opposed sides of the housing having openings in them, said openings being disposed at opposite ends of said second way, and a pair of round rods in said first mentioned way, said rods having each an angular extension formed thereon, said extensions lying in and projecting from said second way, said extensions being adapted for entry in the openings at the ends of said second way, and



serving as handles for oscillating the rods in the first mentioned way and for reciprocating said rods in said first mentioned way whereby to project said rods outwardly from opposite ends of said housing and for withdrawing the rods into the housing, the handles, when lodged in the said openings, precluding reciprocation of the rods and means for locking the handles in said openings.

1,753,464. PROTECTIVE BOOK COVER. CHARLES W. GREENHILL, New York, N. Y. Filed June 1, 1929. Serial No. 367,753. 2 Claims. (Cl. 281—34.)

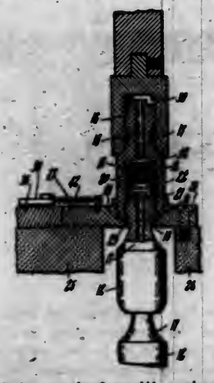


1. In combination, a protective book covering of rectangular shape and square corners and comprising superimposed layers of fabric material, and an angular fastening member comprising a narrow band of flexible metal interposed at each corner between said layers with its sides forming a rectangle with the corner of the covering at the corner, the arms of the metal being folded with the covering to secure the latter to the hook.

1,753,465. MEANS FOR MAKING FLEXIBLE TUBULAR CONDUITS. RAYNALDO P. JACQUES, Woonsocket, R. I., assignor to Adams Industries, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 30, 1928. Serial No. 273,914. 1 Claim. (Cl. 29—84.)

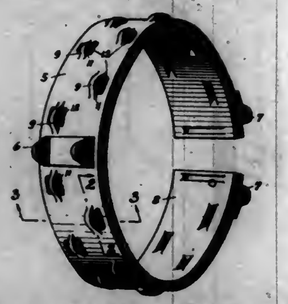
Means for flexibly connecting tubular conduit sections or units, each of which includes a relatively large cylindrical end portion, a relatively large bore therein, a contractible end zone thereon, constituting the mouth por-

tion of the bore, and a smaller end portion having a ball-shaped terminal, a reduced neck, and a smaller bore; said means comprising a supporting and forming die, composed of separable unyieldingly supported members, adapted to be closed upon and engage the neck of one unit, and support the terminal thereof, and having opposed concave forming faces, separated from said terminal by an annular converging space when the die is closed, the die faces being formed to support the end zone



of another unit in a raised position above the die space, a pressing member movable toward and from the die and formed to bear on the neck of the raised unit and force the compressible end zone of the latter into said converging space, thereby forming a socket member confining the terminal of the die-supported unit, and permitting limited universal turning movements of the connected units, when the die is opened, and means for closing and opening the die.

1,753,466. FRICTION BRAKE. JOSEPH KEENEY, Media, Pa. Filed May 22, 1928. Serial No. 279,672. 5 Claims. (Cl. 188—259.)



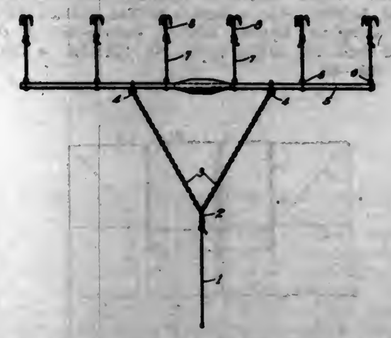
1. A friction brake including a metallic band, a series of straps extending therefrom and forming loops, and a lining slitted to form straps disposed to register with the straps in the band and expanded therein and means for holding said straps in said loops.

1,753,467. BRICK OR BLOCK FOR REGENERATORS. KARL KNIEPERT, Vienna, Austria. Filed Feb. 11, 1928. Serial No. 253,698, and in Austria Feb. 19, 1927. 3 Claims. (Cl. 72—15.5.)



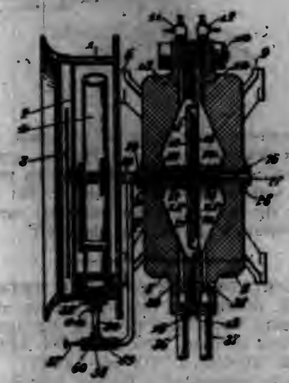
1. A checkerwork for regenerators and the like, comprising courses of oblique parallelopipedic blocks each having a vertical opening therethrough of a shape corresponding to that of the block, the courses being staggered with respect to adjacent courses whereby a comparatively large portion of the upper face of each block is exposed through the opening of a block of the course above, so as to induce an eddy of the gases thereon, and to produce comparatively large vertical gas passages through the checkerwork.

1,753,468. DRAG FOR RECOVERING DEAD BODIES AND THE LIKE. GEORGE R. MCALPINE, Oklahoma City, Okla. Filed Sept. 19, 1927. Serial No. 220,378. 1 Claim. (Cl. 294—66.)



A drag for recovering dead bodies, and the like, as described, comprising a metallic longitudinal tubular body having open ends, and having holding members suitably positioned thereon for balancing the draft on said body while in operation and for attaching drawing means thereto, a flexible metallic drawing member having its ends fastened to said holding means for drawing said longitudinal body, a swivel centrally disposed on said drawing member, cable means connecting said swivel and adapted for pulling said device, said swivel adapted for adjustably positioning said cable and said drawing member in varying suitable relationships, a plurality of tripointed barbed grabbing hooks each having a shank thereon, a plurality of pliant leaders each fastened at one end by eye-bolt holding means to said longitudinal body in spaced relation, and at the other end to a shank of one of the said tri-pointed barbed grabbing hooks, and a heavy weighting means centrally positioned on said longitudinal body for weighting said body in swift currents and for equalizing the two ends of said longitudinal body in active operation.

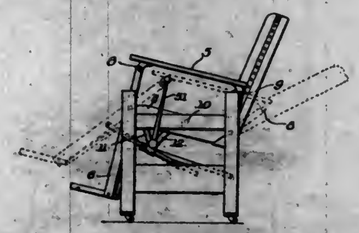
1,753,469. FLOW METER. WILLIAM MELAS, Philadelphia, Pa. Filed Dec. 6, 1926. Serial No. 152,051. 9 Claims. (Cl. 73—110.)



8. Flow-measuring apparatus comprising a housing, a wall dividing said housing into pressure chambers and

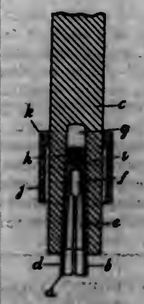
movable in response to difference of pressure, a tubular member having corrugated flexible wall structure connected to said wall, an instrument having a pressure-actuated element, means to apply pressure thereto comprising a liquid mass, and means to retain said liquid comprising said tubular member.

1,753,470. BEAUTY-PARLOR CHAIR. WILLIAM MEYER, Chicago, Ill. Filed Sept. 17, 1928. Serial No. 306,395. 9 Claims. (Cl. 155—26.)



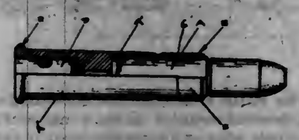
7. In combination, a supporting base, a seat pivotally mounted thereon, a back rest pivoted with respect to the seat, a pair of links for controlling the pivotal movement of the seat with respect to the base and of the back rest with respect to the seat respectively, selectively operated cam means for controlling said links, and a single hand operated lever for controlling said cam means.

1,753,471. TOOL-HOLDING SOCKET. WILLIAM ROBERT PAIGE, Broomhill, and JOHN HENRY HANSON, Holmlea, England. Filed Oct. 12, 1925, Serial No. 62,179, and in Great Britain Oct. 16, 1924. 1 Claim. (Cl. 279—103.)



A tool holding socket member having the whole of its exterior conical, said conical portion being slitted for a portion of its length, said slits terminating in a transverse aperture, a cylindrical lower interior to said socket member and a tapered upper interior at least of as great length as the said lower interior and said socket member being capable of rotation in an interiorly tapered holder.

1,753,472. CARTRIDGE ADAPTER. ARTHUR W. PETERS, Rockford, Ill. Filed Aug. 8, 1928. Serial No. 298,233. 2 Claims. (Cl. 102—14.)



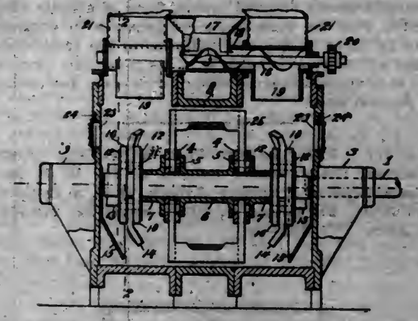
1. cartridge adapter comprising a body having a chamber in its forward end, the peripheral wall of said chamber being slit to make said wall resilient, an inwardly extending boss on said wall, two semi-cylindrical members adapted to be applied to a cartridge forwardly of the rim of the latter, said members having an annular shoulder adapted to lie close to the forward end of said body when the cartridge is inserted into said chamber, one of said members having a recess to receive said boss, and a firing pin slidably mounted in the rear end of the body.

1,753,473. ROTARY PIVOTED HAMMER. JOHN P. POLSTER, Alton, Ill., assignor to Illinois Stoker Company, Alton, Ill., a Corporation of Illinois. Filed Mar. 14, 1928. Serial No. 261,471. 8 Claims. (Cl. 83—11.)



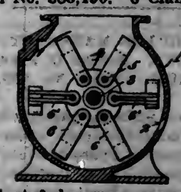
1. A stirrup hammer comprising a bar head provided with a longitudinal opening, substantially radial, forming multiple bars, and a longitudinal web inclined rearwardly outward and extending slantingly toward the front forming a scoop adapted to deflect material outward through said opening.

1,753,474. MILL PULVERIZER. JOHN P. POLSTER, Alton, Ill., assignor to Illinois Stoker Company, Alton, Ill., a Corporation of Illinois. Filed May 2, 1929. Serial No. 359,874. 6 Claims. (Cl. 83—11.)



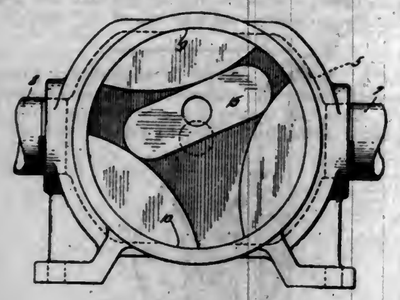
1. A mill pulverizer comprising a horizontal cylindrical casing having an opening for feed and discharge near one end, and a rotor shaft having sets of pivoted hammers operatively mounted in said casing, the inner set being pulverizing hammers and the outer set being primary crushing hammers inclined inward and respectively disposed opposite the open circumferential spaces between said pulverizing hammers, substantially as described.

1,753,475. ROTARY PIVOTED HAMMER. JOHN P. POLSTER, Alton, Ill., assignor to Illinois Stoker Company, Alton, Ill., a Corporation of Illinois. Filed Aug. 5, 1929. Serial No. 383,490. 6 Claims. (Cl. 83—11.)



1. A rotary pivoted hammer comprising a bar head having substantially radial openings therethrough,—said openings being inclined across the head and forming herring-bone bars.

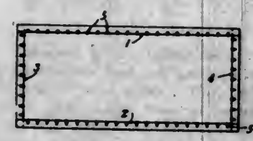
1,753,476. ROTARY PUMP OR BLOWER. JOSEPH R. RICHER, Oak Park, Ill. Filed June 29, 1927. Serial No. 202,261. 9 Claims. (Cl. 103—126.)



1. In a rotary pump, a rotor and a vane pivoted at its center on a stationary axis parallel to but spaced from the axis of the rotor, the said rotor including three equally spaced segmental wings having inwardly directed convex faces continuously engaging the vane, the vane having two flat and parallel edges constituting the major portion of its periphery and adapted to roll on the said convex faces, each such wing face being a portion of a cylindrical surface whose radius is six times the spacing between the axis of the rotor and the pivot axis of the vane.

2. In a rotary pump, a rotor, and a vane pivoted at its own center on a stationary axis parallel to but spaced from the axis of the rotor, the rotor including three wings having inwardly directed convex faces of arcuate circular section, and the vane being continuously in engagement with all three of the said wing faces, the cross-sectional shape of the vane transverse of its pivot axis comprising two semi-circles concaved toward each other and connected by parallel lines.

1,753,477. VENTILATOR FOR WINDOWS. JOHN J. RITTER, Urbana, Ohio, assignor to The W. B. Marvin Manufacturing Company, Urbana, Ohio, a Corporation of Ohio. Filed Aug. 30, 1927. Serial No. 216,473. 4 Claims. (Cl. 156—38.)

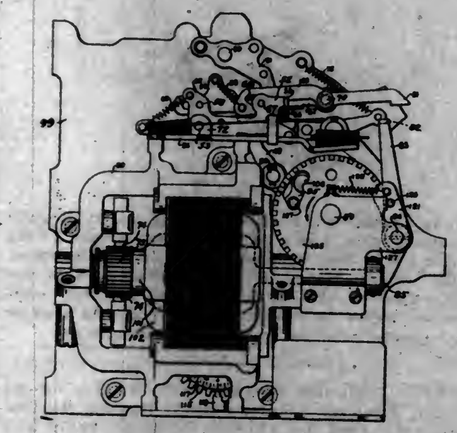


2. A sash and a plurality of integral prongs formed on the inner edges of said sash to receive the cloth, each prong being so bent as to receive the cloth on the outer portion only thereof and clamp the cloth to the face of the sash at a point removed from the metal forming the connection between the prong and the sash.

1,753,478. METHOD FOR MANUFACTURE OF DI-CALCIUM PHOSPHATE. ROBERT D. PIKE, Oakland, Calif. Filed Nov. 14, 1927. Serial No. 233,322. 2 Claims. (Cl. 23—109.)

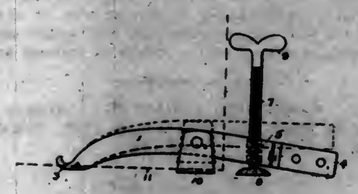
1. The process for utilising gaseous hydrochloric acid and producing available di-calcium phosphate, which consists in bringing gaseous hydrochloric acid into contact with a water suspension of pulverised phosphate rock, thereby decomposing the phosphate rock and taking into solution phosphoric acid and mono calcium phosphate, adding calcium carbonate to this solution to neutralize the first hydrogen ion of its free phosphoric acid and its hydrochloric acid, then precipitating di-calcium phosphate with calcium hydroxid, and separating the precipitate from the solution.

1,753,479. ELASTIC DRIVE FOR CASH REGISTERS. WILLIAM H. ROBERTSON, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Oct. 30, 1925. Serial No. 65,828. 24 Claims. (Cl. 192—150.)



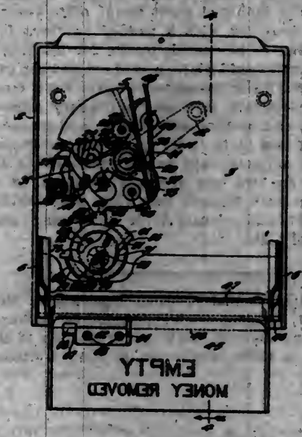
5. The combination of a main operating shaft, an electric motor for driving said shaft, a resilient driving connection between said motor and said shaft, a coupling member secured to said shaft, coupling shoulders on said member, pawl-carrying means directly connected to said resilient driving connection, coupling pawls on said pawl-carrying means adapted to cooperate with said coupling shoulders, means for causing said pawls to be disconnected from said coupling shoulders when said chaft is arrested, a switch to control a circuit through said motor, and means for automatically opening said switch after said coupling pawls have become disengaged from said shoulders.

1,753,480. DOOR SUPPORT. VALENTINE C. ROCHOLL, Fort Wayne, Ind. Filed Feb. 11, 1927. Serial No. 167,486. 6 Claims. (Cl. 254—131.)



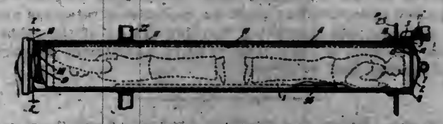
1. A device of the class described consisting of a frame, a swinging member mounted on the frame and adapted to engage the lower edge of a movable object to be supported, and revoluble means mounted on the frame and adapted, when rotated, to engage a fixed object and cause the frame to pivot at one end whereby the swinging member is caused to rise and exert an upward pressure on the object.

1,753,481. COIN-OPERATED VENDING MACHINE. FRANK J. ROWSE, Pawtucket, R. I. Filed Mar. 8, 1929. Serial No. 345,487. 20 Claims. (Cl. 194—1.)



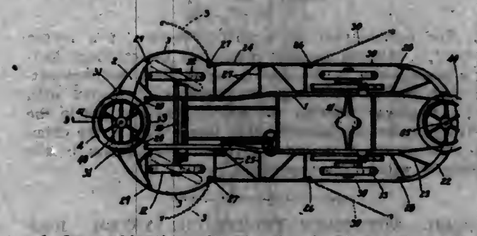
1. In a vending machine, the combination of coin-controlled mechanism, a receptacle for collecting the coins inserted in the machine, means for locking said receptacle in closed position to receive the coins, and means actuated by the unlocking of the coin-receptacle to lock the coin-controlled mechanism against operation.

1,753,482. RESCUE CAR. LAWRENCE Y. SPEAR, New London, Conn., assignor to Electric Boat Company, Groton, Conn., a Corporation of New Jersey. Filed Feb. 20, 1928. Serial No. 255,683. 2 Claims. (Cl. 114—16.7.)



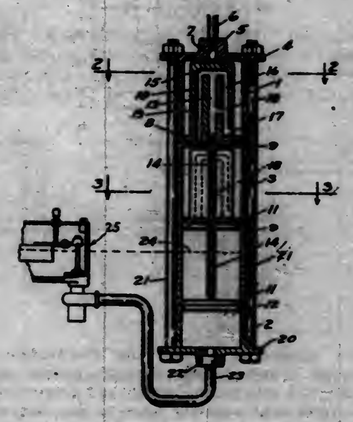
1. In a rescue car for use with submarine boats, a hollow body closed at one end and adapted for insertion into a torpedo tube, the body being provided at said end with means for effecting a water tight closure with the muzzle end of the tube, a removable water tight closure for the other end of the body, and signal means effective at the first mentioned end of the body and actuated by the closure for indicating when said closure is in position to close said other end of the body.

1,753,483. BUMPER STRUCTURE. EVIN STEVENS, Los Angeles, Calif. Filed May 27, 1929. Serial No. 366,228. 4 Claims. (Cl. 293—55.)



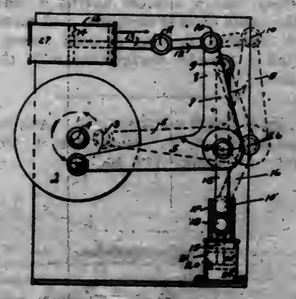
1. In combination with the chassis of an automobile, a non-resilient bumper member supported rigidly from the chassis and sloping rearwardly from each side of a central point to a point outside of the wheels, and a circular member resilient per se supported upon a vertical axis, of said bumper member, with its forward periphery in advance of the forward, central point of said front member.

1,753,484. CARBURETOR-FEED-RETARDING DEVICE. FRANK L. SUTTON, Seattle, Wash., assignor of one-half to Harry Maxwell Finney, Seattle, Wash. Filed Jan. 14, 1926. Serial No. 81,338. 3 Claims. (Cl. 137—112.)



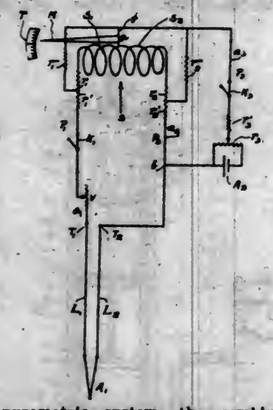
1. In a device of the class described, a plurality of cylindrical shaped casings, means for holding the said casings together in a vertical position, pipe connections at the upper and lower ends of the said device, projections extending upwardly from the intermediate casings, said projections having a plurality of vertical openings therein, all of which are connected at the top and two of which are open at the bottom, and one of which is closed at the bottom, and provided with an opening to the exterior of the said projection, and another opening about midway of its length, connecting it to one of the other openings, and a tube extending downward from the lower end of the said latter opening.

1,753,485. DEAD-CENTER DEVICE. JOHN H. TOWERS, Balsam Lake, Wis. Original application filed May 15, 1926, Serial No. 109,401. Divided and this application filed June 6, 1927. Serial No. 196,729. 3 Claims. (Cl. 74—20.)



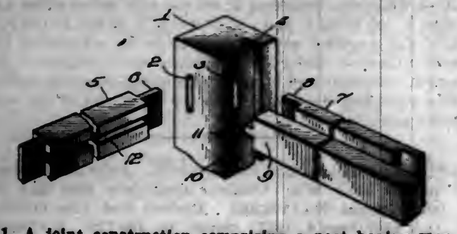
1. A device for overcoming dead centers comprising a rocker arm oscillating about a fixed pivot, an angle crank pivotally connected to the oscillating end of the rocker arm, one arm of said crank being connected to a rotary element, and the other adapted to be operated from a suitable source of power, and means acting to produce pressure upon the oscillating pivot of said crank, and means for reversing at will the direction of force of said means.

1,753,486. ELECTRICAL MEASURING APPARATUS. CHARLES TRAVIS, Philadelphia, Pa. Filed May 3, 1927. Serial No. 188,507. 4 Claims. (Cl. 73—32.)



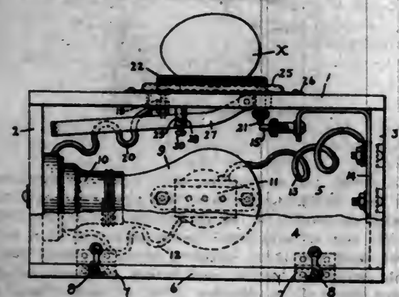
1. In a pyrometric system, the combination of a thermo couple, a galvanometer having a current carrying coil connected to said thermo couple, and a source of electromotive force approximately equal to the electromotive force of the thermo couple connected to an intermediate point of said coil and to the thermo couple.

1,753,487. JOINT CONSTRUCTION. JENS VAALER, Chicago, Ill., assignor to The Clemetsen Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1926. Serial No. 141,248. 9 Claims. (Cl. 20—92.)



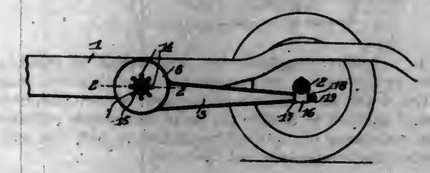
1. A joint construction comprising a post having mortises in two adjacent faces, an element having a tenon adapted to fit into one of said mortises, said element having a recess, and a member having a tenon adapted to fit into the other of said mortises, said member having a projection adapted to seat in said recess, said projection having a face in engagement with the adjacent face of the post.

1,753,488. EGG-TESTING DEVICE. AUGUST VESPERMAN, Schenectady, N. Y. Filed Mar. 1, 1929. Serial No. 343,595. 5 Claims. (Cl. 99—6.)



4. An egg testing device comprising in combination, a box provided with an opening in its upper wall, an electric lamp mounted in said box, a circuit for said lamp, a stationary contact member comprising one terminal of said lamp circuit mounted adjacent the opening in said box, a pivotally mounted sheet metal plate covering said opening and provided with a padded aperture forming a seat for an egg to be tested, means for limiting the upward movement of said plate, a contact member carried by said plate electrically connected in said lamp circuit and adapted to co-operate with said stationary contact member in closing and opening said circuit, and means for normally biasing said plate to its upper limit of movement to separate said contacts, said means comprising a U-shaped lever having its two legs pivotally mounted on an horizontal axis in such manner that their extremities constitute the short arm of said lever and engage the under surface of said plate.

1,753,489. MOTOR VEHICLE SUSPENSION. ROBERT A. WEINHARDT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 4, 1926. Serial No. 92,254. 4 Claims. (Cl. 267—21.)



1. The combination with a motor vehicle frame and axle, of an arm connected at one end to the axle, a rubber block, retainers mounted on the frame and arm and having groove and rib connection with said rubber block, and an adjusting ring having axially and diagonally arranged grooves on its inner and outer peripheries respectively engaging corresponding teeth on one of said retainers and its support, said ring being movable axially of the rubber block to effect a concentric relative adjustment between said retainer and its support.

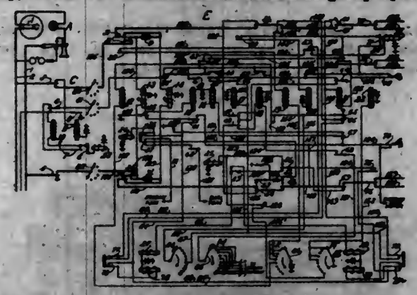
1,753,490. DUST COLLECTOR OR SEPARATOR. JOHN WHITMORE, Belfast, Ireland, assignor to Davidson & Company, Limited, Sirocco Engineering Works, Belfast, Ireland. Original application filed Jan. 15, 1926, Serial No. 81,369, and in Great Britain Dec. 5, 1925. Divided and this application filed Sept. 8, 1926. Serial No. 134,265. 12 Claims. (Cl. 183—83.)



1. The combination, in a dust collector, of a vortex chamber, a chimney passing completely therethrough having a passageway in the side of the chimney communicating with the vortex chamber and vanes associated with said passageway whereby the whirling flow of gas in the vortex chamber is converted into linear flow in the chimney without shock in order to effect a reduction in the resistance within the apparatus.

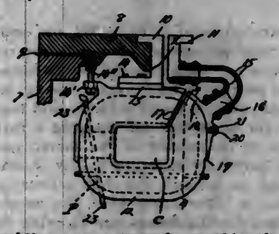
1,753,491. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 11, 1925, Serial No. 8,848. Renewed July 12, 1928. 47 Claims. (Cl. 179—17.)

1. In an automatic telephone system, calling and called lines, means comprising switches controllable from said calling line for extending a connection to said called line, said switches being arranged in one large group of switches directly accessible to said calling line and a plurality of smaller groups of secondary switches accessible to said calling line through the banks of the switches of said first group, means in the switches of said first group operable



by the calling subscriber to select a group of said secondary switches, means in said first switch for automatically selecting an idle one of the switches of said selected group, and means in the first said switch operable by the calling subscriber for selecting a frequency of ringing current and for controlling its application to the called line.

1,753,492. WELDING APPARATUS. HERBERT A. WOOSTER, Kenton, Ohio, assignor to Swift Electric Welder Company, Detroit, Mich., a Corporation of Michigan. Filed June 1, 1926. Serial No. 112,966. 12 Claims. (Cl. 219—4.)



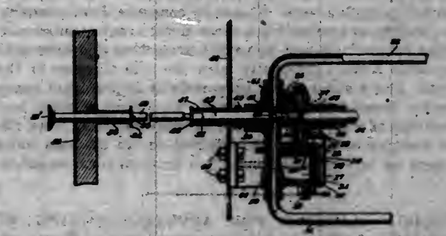
1. In a welding apparatus, the combination with primary and secondary coils, of an element constituting a protective covering for said primary coil integrally associated with said secondary coil, said element constituting a portion of the secondary circuit.

1,753,493. RATTLE WITH HANDLE HAVING FLEXIBLE SECTION. ARTHUR ZADEK, New York, N. Y. Filed Dec. 18, 1929. Serial No. 414,882. 3 Claims. (Cl. 46—46.)



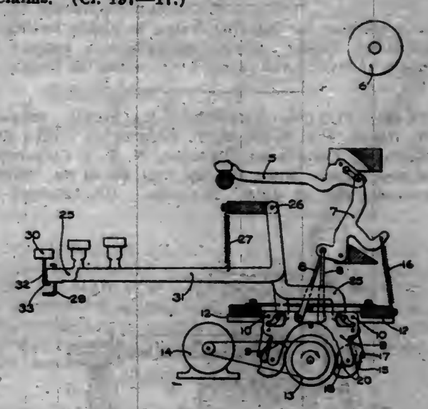
2. A rattle comprising a head portion with projecting pins at one end, and a handle comprising a flexible tubing bent about upon itself and the ends embracing the projecting pins of the head portion, and a rigid core for the tubing projecting to points short of the ends of the pins whereby the handle retains a flexible portion between the pins and the ends of the rigid core.

1,753,494. LUBRICATING SYSTEM. OSCAR ULYSSES ZERK, Chicago, Ill., assignor to Alemite Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 1, 1925. Serial No. 47,566. 5 Claims. (Cl. 184—7.)



1. The combination with an automotive vehicle comprising a bearing, and an engine having a crank case, of a pump for receiving oil from said crank case, a body member having a longitudinal bore and two transversely extending bores communicating with each other and with said longitudinally extending bore, one of said transversely extending bores being enlarged to form a filter chamber, a filter for filtering the oil passing through said filter chamber, conduits for connecting the ends of one of said transversely extending bores with said oil pump and said crank case respectively, another conduit for connecting the discharge end of the other transversely extending bore with said bearing, a balanced valve slidable in said longitudinally extending bore for obstructing one of said transversely extending bores to cause oil to pass through said filter and into said bearing, and means for reciprocating said valve.

1,753,495. TYPEWRITING MACHINE. HAROLD F. BARDWELL, Rochester, N. Y., assignor to Electromatic Typewriters, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 20, 1927. Serial No. 220,813. 2 Claims. (Cl. 197—17.)



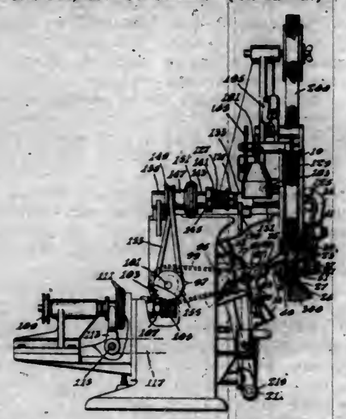
1. In a typewriting machine, the combination, with a type and a key, of power-mechanism controlled by the key and connected with the type to actuate the latter, said mechanism comprising a power roller, a cam cooperative with the power roller and having a plurality of lobes, and detent-mechanism, connecting the key and the cam and arranged to permit a complete rotation of the cam at each depression and release of the key.

1,753,496. CONCRETE-FLOOR CONSTRUCTION. FRANCIS M. BARTON, Chicago, Ill., assignor to George Thompson, Chicago, Ill. Filed Jan. 22, 1926. Serial No. 82,891. 2 Claims. (Cl. 72—66.)



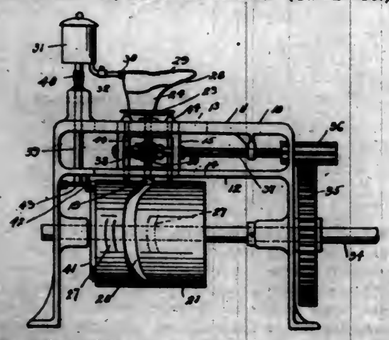
1. As a new article of manufacture, a hollow substantially rectangular form for use in concrete floor construction, said form comprising a sheet metal lower member consisting of a bottom and upwardly projecting and divergent side walls formed integrally with the side margins of the bottom, and a sheet metal substantially imperforate upper member formed separately from the lower member and consisting of a top and straight flanges depending from the side margins of the top and adapted to lap the side walls to form an interlocking connection between form-members.

1,753,497. MACHINE FOR APPLYING FOXING TO SHOES. LEWIS J. BAZZONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 8, 1926. Serial No. 126,889. 35 Claims. (Cl. 12—1.)



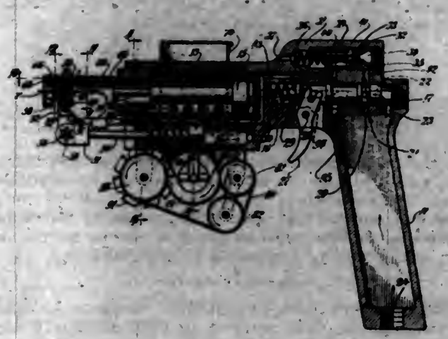
1. A machine for applying foxing to a shoe having, in combination, foxing applying mechanism, a support for a supply of foxing, and means for severing the foxing.

1,753,498. FOXING-CEMENTING MACHINE. STEPHEN W. BOURN, Providence, R. I., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 30, 1924, Serial No. 709,998. Renewed Mar. 13, 1929. 26 Claims. (Cl. 12—80.)



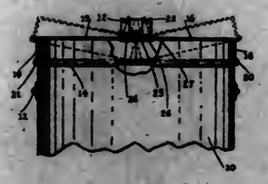
1. In a shoe surface coating machine, a support for the work, a fluid applying member for contacting with the work, means for rotating said support, and means driven in time with said rotating means for positively moving said support towards and from said member during the rotation thereof.

1,753,499. AUTOMATIC TACK HAMMER. WALTER D. BURGER, Forest Park, Ill. Filed Sept. 21, 1928. Serial No. 307,514. 11 Claims. (Cl. 1—46.1.)



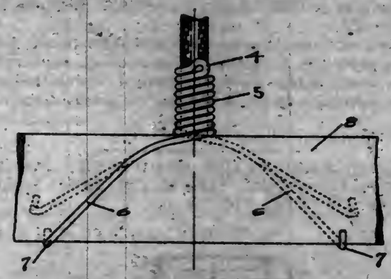
1. In a device of the class described, the combination of a barrel, a hammer device mounted for reciprocation within the barrel, a magazine for the retention of tacks, feeding means associated with a magazine for selecting and arranging tacks, an arm sociated with said feeding means and mounted for movement for carrying a tack from the feeding means to the muzzle of the barrel, means at the muzzle of the barrel for engaging a tack so delivered, and means adapted to actuate the tack-delivering arm and hammer device in alternation with one another, and to operate the tack-feeding means for carrying tacks to the arm concurrently with a driving stroke of the hammer device.

1,753,500. CAN CLOSURE. JAMES K. BURLEIGH, Hastings-upon-Hudson, N. Y. Filed Aug. 24, 1927. Serial No. 215,178. 2 Claims. (Cl. 220—32.)



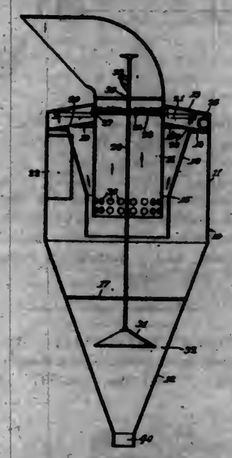
1. In combination with a can having an annular recess adjacent its open upper edge, of a cover composed of two like sections, hinge members connecting the cover sections, a beaded flange surrounding the sections, said flange adapted to engage within the can recess, means formed on each cover section adapted to engage within the can recess, and means formed on each cover section adapted to extend below the mating section between the hinge elements thereof.

1,753,501. SOCKET. EMIL CHRISTENSEN, Portland, Oreg. Filed Oct. 2, 1928. Serial No. 309,727. 1 Claim. (Cl. 248—37.)



In a socket device for holding decorations: a wire doubled upon itself to form a loop and then coiled into a double threaded helix with said loop at the upper end thereof; oppositely disposed wire arms leading from each of said helical threads at the bottom of said helix; and hooks formed at the extremities of said arms.

1,753,502. DUST COLLECTOR. WILLIAM G. CLARK, Chicago, Ill. Filed Dec. 24, 1926. Serial No. 156,904. 8 Claims. (Cl. 183—84.)



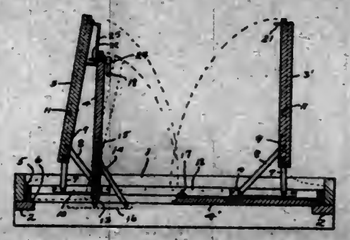
1. In a dust collector, a cylindrical casing terminated in a tapered lower section, a pipe member suspended within said casing and having a cylindrical lower portion and a downwardly tapered upper portion, a vent pipe extending downward into said cylindrical portion and terminating short of the lower end of said member and spaced from the wall thereof, and having a plurality of apertures in the lower portion thereof.

1,753,503. BALL-WARPER TRAVERSE MECHANISM. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Apr. 19, 1928. Serial No. 271,203. 6 Claims. (Cl. 28—26.)



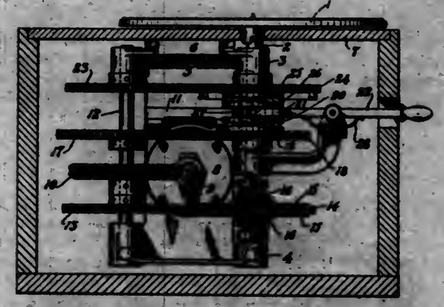
1. A ball warper traverse mechanism comprising a carriage, means for reciprocating said carriage, an arm pivoted on said carriage, a yarn guide on said arm, means having a groove extending along the path of said carriage, the ends of said groove being of cam formation, and cam engaging means connected to said arm and traveling in said groove, the cam portions of said groove being of such formation as to cause acceleration of the yarn guide as the carriage approaches the ends of its travel.

1,753,504. SWINGING WINDOW AND SCREEN MOUNTING. EARLE W. CUMMINGS, Santa Barbara, Calif., assignor to Watertite Casement Hardware Co., Santa Barbara, Calif., a Corporation of California. Filed Aug. 17, 1928. Serial No. 300,197. 11 Claims. (Cl. 20—52.)



1. A window sash provided with pivotal mountings adjacent one edge whereby it may be swung outwardly from a window frame, a screen frame positioned in the window frame to the inner side of said sash provided with pivotal mountings adjacent one edge whereby it may also be swung outwardly from said window frame, and means manually operable from the inside of the screen adapting said sash to be engaged and released from said screen at any point of swinging of the sash.

1,753,505. DRIVING MECHANISM FOR TURNTABLES OF TALKING MACHINES. JOHN W. DYER, East Orange N. J. Filed Jan. 14, 1929. Serial No. 332,480. 5 Claims. (Cl. 74—59.)



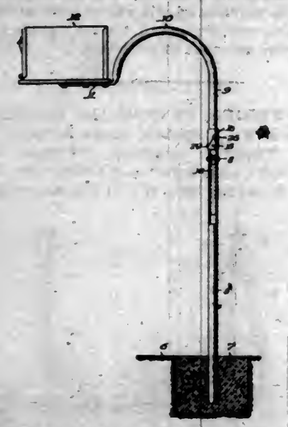
1. The combination with a turntable and a driven shaft connected therewith, of a driving shaft, friction means between the shafts for rotating the driven shaft, normally disconnected gearing between said shafts, and means for connecting said gearing whereby the driven shaft will be turned at a slightly higher speed with respect to said friction means.

1,753,506. MAIL-BOX SUPPORT. AUGUST W. FLORINE, Fort Atkinson, Wis. Filed May 26, 1928. Serial No. 280,797. 3 Claims. (Cl. 232—40.)

1. In a support, a pair of relatively rotatable axially alined members adapted to be arranged in a vertical position, a bearing member carried by one of said rotatable members and having a recess therein provided with angularly related cam surfaces, and a second bearing member carried by the other of said axially alined members and

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provided with a projecting portion lying in said recess and co-operating with the surfaces thereof whereby upon relative rotation of the axially alined members, one of the latter will be caused to rise, and stop means for limiting

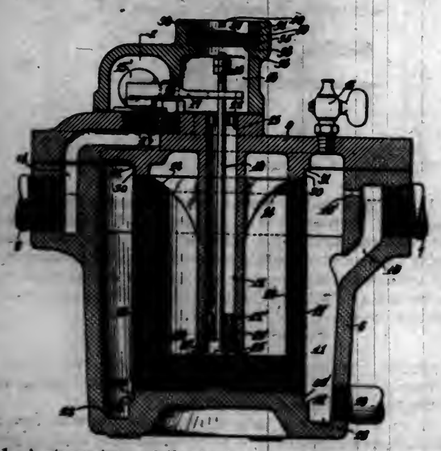


the degree of relative rotative displacement of said axially alined members, and spring means tending to draw said relative rotatable elements toward each other and to seat said projection in said recess.

1,753,507. METHOD OF PRODUCING ACTIVATED CARBON. OTTO FUCHS, Constance, Germany, assignor to Holzverkohlungs-Industrie Aktiengesellschaft, Constance, Baden, Germany, a Corporation of Germany. Filed Feb. 9, 1929, Serial No. 338,894, and in Germany Jan. 13, 1928. 2 Claims. (Cl. 252—3.)

1. The method of producing activated carbon which comprises reducing carbonized material to particles of approximately uniform shape, size, and specific weight, and treating the same with activating gases for a comparatively short period of time at a temperature of approximately 900° C.

1,753,508. STEAM TRAP. JAMES W. GARRETT, Philadelphia, Pa., assignor to Yarnall-Waring Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1927. Serial No. 211,058. 3 Claims. (Cl. 137—103.)

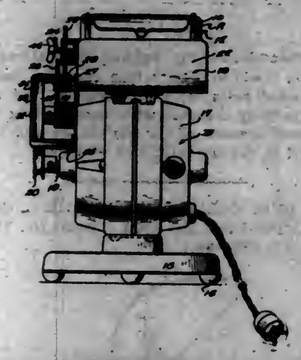


1. A steam trap of the bucket type and a fixed screen surrounding the bucket, spaced from the bucket and free from intermediate interior support between it and the bucket and protecting it from foreign matter.

1,753,509. METHOD OF SOLDERING. HARRY S. GEORGE, Massapequa, N. Y., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed May 2, 1927. Serial No. 188,406. 3 Claims. (Cl. 113—112.)

1. The process of soldering which comprises placing molten solder on a surface to be soldered, and applying to the molten solder a piece of a metal having the powerful deoxidizing action and low melting point of sodium.

1,753,510. RAZOR-BLADE SHARPENER. JOSEPH R. GIBSON, Chicago, Ill. Filed May 27, 1926. Serial No. 112,087. 5 Claims. (Cl. 51—80.)



1. The combination with a razor blade sharpener including a barrel from which the sharpening motions are derived, of a power operating device including a motor having an armature shaft, a support upon the casing of the motor for removably receiving the sharpener, a drive shaft operatively connected with the motor rotatably carried by the support, an expanding mandrel removably fitted in the barrel, and a detachable connection between the drive shaft and mandrel.

1,753,511. SUBAQUATIC DRILL. WILLIAM DUNCAN GRANT, Vancouver, British Columbia, Canada. Filed Apr. 13, 1927. Serial No. 183,567. 1 Claim. (Cl. 255—64.)



In a subaquatic drill the combination with a tubular drill rod to which an endwise reciprocating movement is imparted and to the lower end of which drill rod the drill head is secured, of two longitudinal ducts within the longitudinal aperture of the said drill rod and extending from the drill head to above water level, one of said ducts jetting water under pressure to adjacent the cutting face of said drill head, and the other said duct terminating in an upturned orifice adjacent the head of the drill, the said upturned orifice being adapted to deliver water under pressure upwards from the bottom end of the said drill rod whereby the efficiency of the upward water flow carrying the detritus from the vicinity of the cutting face may be improved.

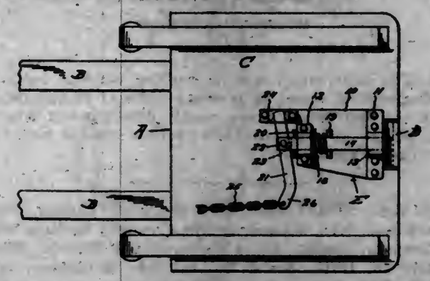
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1,753,512. GATE OR DOOR OPENING APPLIANCE. WILLIAM J. HAMMOND, Plumas, Manitoba, Canada. Filed May 26, 1928, Serial No. 280,827, and in Canada May 5, 1928. 4 Claims. (Cl. 39—65.)



1. A vehicle actuated device for operating an endwise, shiftable closure member comprising a track located at some distance from the closure member and provided with hinged end extensions, a carriage mounted for endwise movement on the track, an operating member carried by the carriage and adapted to be engaged and shifted towards the closure member by a vehicle approaching the same, a suitably guided pulling line connecting the carriage to the closure member and adapted in the movement of the carriage towards the closure member to open said closure member and a suitably guided pulling line connecting the carriage with the closure member and adapted to reset the carriage in the subsequent closing of the closure member.

1,753,513. EXCAVATOR-DIPPER LATCH. ALFRED T. HANSEN, Green Bay, Wis. Filed July 7, 1927. Serial No. 204,011. 5 Claims. (Cl. 292—171.)



1. In an excavator dipper having a hinged door and provided with a keeper, a latch mounted on the door and cooperating with the keeper for normally maintaining the door closed, a pivoted lever connected with the latch for releasing the same, said lever having one end projecting laterally beyond the latch, the projecting portion of the lever being curved away from the free end of the door, and a flexible member connected with said projecting curved end of the lever for effecting movement thereof, the curvature of the lever preventing fouling of the flexible member thereupon and permitting it to slip off if engaged thereabout.

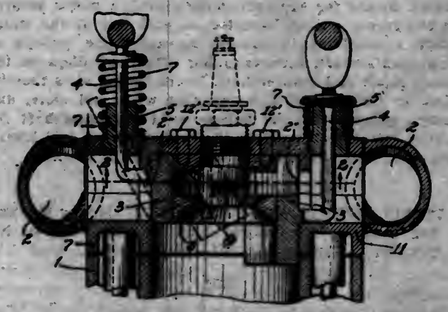
1,753,514. MOP. JAMES B. HARDIN, St. Louis, Mo. Filed Mar. 21, 1928. Serial No. 263,240. 1 Claim. (Cl. 15—139.)

A mop comprising a mopping portion, a hollow handle providing a chamber adapted to receive cleansing fluid, a head to which said mopping portion is attached and with respect to which said handle is capable of telescoping movement, said head being located entirely outside of said hollow handle, a valve head fixedly supported by said



head, and a wall providing an end wall of said chamber and having a passageway formed therethrough which may be closed by said valve head, said handle being movable to move said wall away from said valve head to permit fluid to pass from said chamber through said passageway.

1,753,515. VALVE AND HEAD FOR GAS ENGINES. ALBERT C. HOECKER, St. Louis, Mo. Filed Dec. 1, 1926. Serial No. 151,936. 5 Claims. (Cl. 123—75.)



1. In a gas engine comprising a cylinder with a cylindrical head provided with inlet and exhaust ports, a cylindrical, segmental valve for each of said ports, said valves having a stem permanently attached thereto and said valves being of less circumference than the circumference of the inside of the cylinder so that while the stem and valve may be in one piece the stem may be inserted into operative position through the ports and through the head substantially as described.

1,753,516. TREATING LIQUID PARTIAL-OXIDATION-PRODUCT MIXTURES AND PRODUCTS THEREOF. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Filed Mar. 7, 1921. Serial No. 450,401. 18 Claims. (Cl. 87—12.)

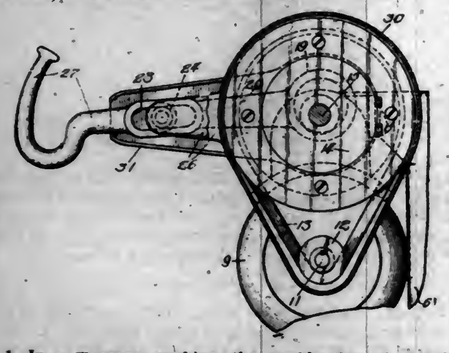
8. As a new article of manufacture, a sulphonated hydrocarbon product of partial oxidation containing artificially introduced chemically-combined oxygen.

12. The method of treating the liquid product from the vapor-phase partial oxidation of hydrocarbons containing a plurality of different hydrocarbons containing artificially-introduced chemically-combined oxygen and including organic acids, consisting in sulphonating a part of said liquid product.

1,753,517. METHOD OF TREATING LIQUID PARTIAL-OXIDATION PRODUCTS. JOSEPH HIDY JAMES, Pittsburgh, Pa., assignor to Clarence P. Byrnes, trustee, Sewickley, Pa. Original application filed Mar. 7, 1919, Serial No. 281,197. Divided and this application filed July 2, 1925. Serial No. 41,225. 8 Claims. (Cl. 260—116.)

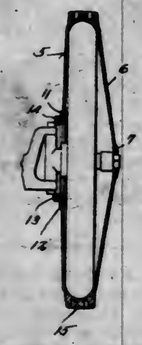
2. The method of treating a partial oxidation product of mineral oil containing aldehyde fatty acids, consisting in separating the free acids from the other constituents, and subjecting other constituents to partial oxidation with oxygen while in the vapor phase.

1,753,518. BODY-TREATMENT MACHINE. JOHN T. JANETTE, Chicago, Ill. Filed Nov. 19, 1928. Serial No. 320,830. 2 Claims. (Cl. 128—63.)



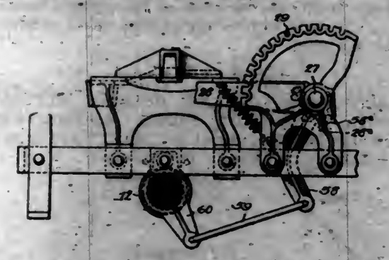
1. In a massage machine, the combination of a main frame, means for supporting the frame, a motor secured to the frame, pulleys mounted on each end of the motor shaft, a countershaft mounted in said frame, pulleys on said countershaft, belts engaging with the pulleys on the motor shaft and countershaft, levers having slots therein, pins on the main frame engaging with said slots, and means actuated by the pulleys on the countershaft for giving rotary movement to the inner ends of said levers, the outer ends of the levers having hooks or the like.

1,753,519. WHEEL AND TIRE COVER. HENRY KANNER, San Antonio, Tex. Filed Aug. 15, 1928. Serial No. 299,820. 1 Claim. (Cl. 301—37.)



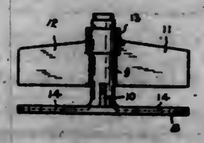
A cover for motor vehicle tires, including a body portion formed of elastic material and having an opening to accommodate the hub cap of the wheel over which the cover is positioned, said cover including an inner side having an enlarged central opening, said inner side having slits extending to the central opening, metallic sections having upstanding ends, secured adjacent to the central opening, the ends of the metallic sections having openings to receive bolts to secure the metallic sections together, and said cover having a tread portion.

1,753,520. SEED PLANTER. LEE H. KAUFER, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Original application filed July 19, 1920, Serial No. 397,166. Divided and this application filed Jan. 19, 1922. Serial No. 530,247. 1 Claim. (Cl. 74—58.)



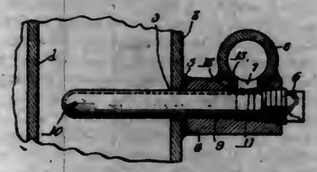
In a device of the class described, a frame, an axle, a disk gear loosely mounted on said axle and having a plurality of sets of radially spaced concentric gear teeth fixed thereon, a stud shaft having bearing on said frame in fixed parallel relation with said disk gear, a driven gear slidably and non-rotatably mounted on said stud shaft, said driven gear having spur gear teeth adapted to have selective engagement with said sets of concentric gear teeth on the disk gear, sliding clutch means on said axle affording driving engagement between said axle and said disk gear, cam means concentric with said axle and abutting said stud shaft bearing for operating said clutch means, and means independent of said last named clutch means for shifting said driven gear.

1,753,521. WASHING-MACHINE AGITATOR. HENRY S. LABISKY, Seattle, Wash. Filed Aug. 6, 1929. Serial No. 383,860. 4 Claims. (Cl. 259—101.)



1. The combination with a washing machine agitator having vertical vanes, of auxiliary vanes of greater depth than the first named vanes readily detached and attachable relative to said agitator at points removed from the first named vanes.

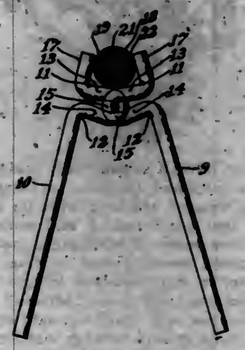
1,753,522. SPRAYING DEVICE. OLAF LARSEN, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed July 10, 1926. Serial No. 121,534. 3 Claims. (Cl. 299—75.)



1. A device of the class described, comprising a tube adapted to receive a spray nipple and having a lateral opening for the entry of fluid thereinto, a spray nipple removably positioned in said tube and extending outwardly from one end thereof, said nipple having an opening therein communicating with the opening in said tube said tube having a longitudinal recess formed in its inner wall

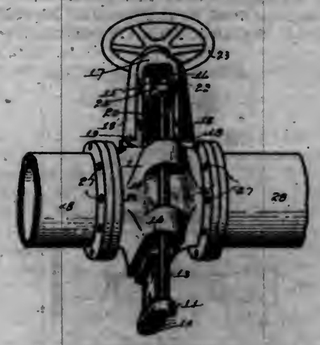
terminating inwardly in a shoulder, a lug on said nipple shaped to snugly engage said shoulder within said recess and determine the longitudinal and circumferential position of said nipple, and a removable end closure for said tube effecting the retention of said nipple.

1,753,523. REENFORCEMENT-BAR SUPPORT. WILLIAM E. MATHEWS, Birmingham, Ala. Filed Nov. 17, 1928. Serial No. 320,180. 2 Claims. (Cl. 72—122.)



1. A reenforcement bar support comprising a pair of rods having U-shaped bends hooked together intermediate their ends to form a pivotal connection, said bends being turned at an angle to the long axis of the rods.

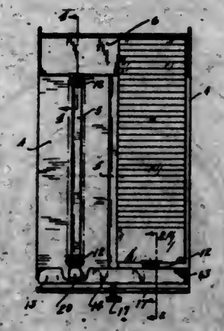
1,753,524. VALVE. FRED J. MAWBY, Hays Township, Charlevoix County, Mich. Filed Sept. 1, 1926. Serial No. 132,943. 2 Claims. (Cl. 251—55.)



1. In a device of the class described, a pipe having transversely disposed slots at opposite sides thereof in alignment with each other, a valve seat member detachably mounted on the outside of said pipe in position to close one of said slots, a gate valve slidable in the other of said slots adapted to close against said valve seat, a screw swivelly bearing against the outer side of said seat member, and connections threadedly engaged by said screw for actuating said gate valve.

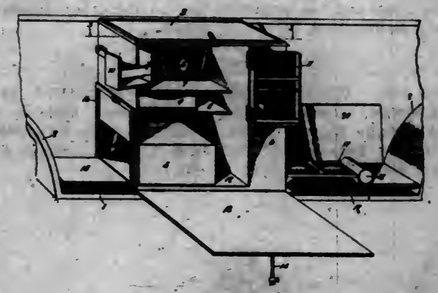
1,753,525. CARD-INDEX TRAY. MALCOLM MCDONALD, Orenco, Oreg. Filed Aug. 31, 1927. Serial No. 216,614. 3 Claims. (Cl. 129—16.)

1. In a device of the class described, the combination of a tray, guideways disposed longitudinally of the tray, the tray bottom being formed with an enlarged opening at one end of each of the guideways, an elevated body element at one end of the tray having a portion that is inclined to the horizontal when in normal position, fixed to the tray,



card-carrying yokes slidable within the guideways, an entrance end section having an inclined surface disposed intermediate its ends, means for locking the entrance end section and the yokes in intimate relation with each other.

1,753,526. CABINET KITCHEN. RODNEY W. MARTIN, Dayton, Ohio. Filed Nov. 24, 1925. Serial No. 71,162. 2 Claims. (Cl. 312—147.)

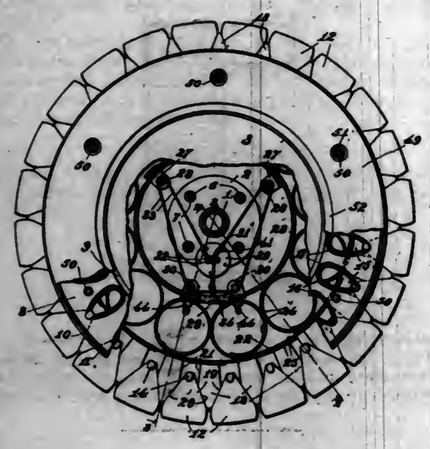


1. In a camper's culinary cabinet and the like, a housing having therein a utensil and equipment compartment accessible from the front of the housing, a food compartment of less height than the housing accessible from one side of the housing, said compartment being located at the bottom of the housing with the utensil and equipment compartment extending above and at one side of said food compartment, and a stove compartment extending from the bottom to the top of the housing at one end thereof and accessible from the side of the housing, and independent closures for the respective compartments, including a double door for the stove compartment, the sections of which are normally disposed in overlapping relation with one section hinged to the other, and the latter section hinged at its lower margin to the housing, said food, stove and equipment compartments being non-communicating with each other, and a closure door for the equipment compartment hinged to the housing at its bottom and opening downwardly and forwardly to form a table, said closure door being of greater area than the access opening of the equipment compartment and extending therebeyond into overlapping relation with the food and stove compartments.

1,753,527. RESILIENT WHEEL. LAWRENCE PAXTON MILLER, Philadelphia, Pa. Filed Aug. 1, 1927. Serial No. 209,736. 9 Claims. (Cl. 152—29.)

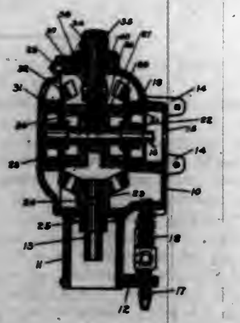
1. A wheel comprising a pair of disks, a plurality of oppositely disposed wedge shaped blocks arranged between

the outer edges of said disks and forming a deformable tread, a flexible ring engaging the inner ends of said blocks, a tension ring and a series of split rings interposed



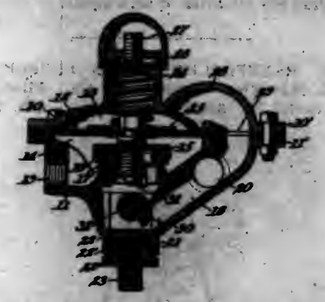
between said flexible ring and said tension ring, said flexible ring being formed of integral extensions of said split rings and freely slidable one on the other, substantially as described.

1,753,528. WRINGER HEAD FOR WASHING MACHINES. JOHN NELSON, Newton, Iowa, assignor to Automatic Washer Company, Newton, Iowa, a Corporation of Delaware. Filed June 1, 1926. Serial No. 112,830. 1 Claim. (Cl. 74—59.)



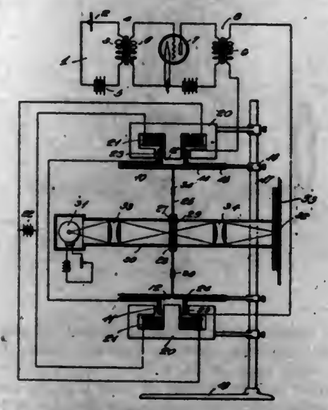
A wringer head for wringer rolls comprising a housing having the side opposite the wringer rolls removable, oppositely disposed bevel gears freely mounted in bearings in said housing and removable side, a horizontal shaft freely mounted in said gears and slidable therein, said shaft being adapted to clutch with the drive shaft of the wringer rolls, a clutch member slidably splined on said shaft, whereby said horizontal shaft and clutch member may be disengaged from said gears by the withdrawal of the horizontal shaft from the gears, a drive shaft pivotally mounted in the housing proper, a pinion pinned on said drive shaft and engaging said bevel gears, a clutch controlling shaft pivotally mounted in said housing, a manually operable handle, and releasable connecting means between the clutch controlling shaft and handle.

1,753,529. ACETYLENE GENERATOR. LAURENCE OLIPHANT, Trenton, N. J., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Aug. 30, 1923. Serial No. 660,242. 9 Claims. (Cl. 187—53.)



9. In a relief valve, a substantially conical casing member having an inlet and an outlet, a substantially dome-shaped casing member arranged with its open end cooperating with the larger end of said conical member to provide a hollow vessel, a diaphragm firmly secured between said casing members and forming therewith two chambers, exterior wall members integral with each of said casing members and forming therewith a passage communicating between said chambers, said outlet being disposed in the walls of said passage intermediate the ends of said passage, a substantially cylindrical member disposed within and coaxial of said conical member and extending to meet the walls thereof, said cylindrical member having a valve seat at its open end, a valve cap, a valve stem securing said valve cap to said diaphragm and arranged to close said valve seat to provide two chambers in said conical member, and a cam cooperating with said valve stem and disposed in that one of said last-named chambers formed by the apex portion of the conical member.

1,753,530. TALKING-PICTURE APPARATUS. FREEMAN H. OWENS, New York, N. Y. Filed July 13, 1927. Serial No. 205,440. 5 Claims. (Cl. 179—100.3.)

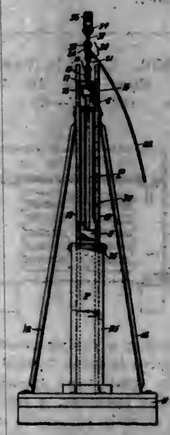


1. In a sound recording system, a film, a light source, a lens system for directing said light source upon said film, a frame member for supporting said lens system, a pair of shutter members slidably disposed in said frame member between said light source and said film, electromagnetic devices arranged to control said shutter members, and a series circuit connecting each of said electromagnetic devices for variably controlling the operation thereof in accordance with sound vibrations for correspondingly controlling the exposure of said film with respect to said light source.

1,753,531. VITAMIN COMPOUND. ROBERT K. PRINCE, Westfield, Mass., assignor to Vitamin Food Co. Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 2, 1925, Serial No. 281. Renewed Oct. 8, 1928. 8 Claims. (Cl. 167—14.)

2. A pharmaceutical composition comprising a mixture of substances rich in vitamins, including vitamins A and C, with assimilable inorganic salts and endocrine gland substance.

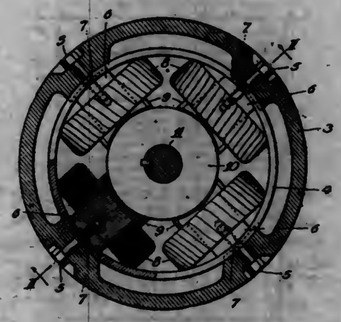
1,753,532. METHOD AND APPARATUS FOR TESTING RODS. WILLIAM L. REID and FRANK J. BASCOMBE, Lima, Ohio. Filed Sept. 20, 1921. Serial No. 501,920. 6 Claims. (Cl. 265—18.)



1. The method of testing rods, which consists in dropping the rod to be tested endwise and suddenly arresting its upper end, so as to impose a tensile shock on the rod by virtue of its momentum.

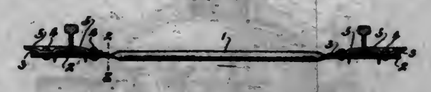
3. Apparatus for testing rods comprising means for releasably suspending the rod to be tested, and means cooperating with the upper end only of the rod for suddenly arresting it as it falls after release so as to produce a tensile shock on the rod by virtue of its momentum.

1,753,533. DYNAMO-ELECTRIC MACHINE. WILLIAM EDWARD RICHARD, Evansville, Ind., assignor to Sunbeam Electric Manufacturing Company, Evansville, Ind., a Corporation of Indiana. Filed July 22, 1927. Serial No. 207,628. 5 Claims. (Cl. 171—252.)



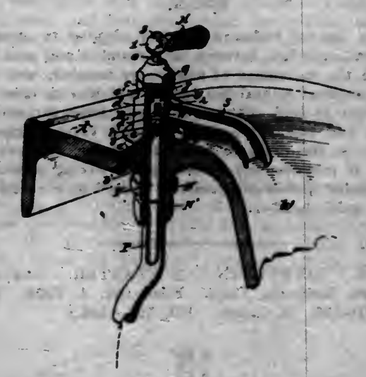
1. A dynamo-electric machine comprising a supporting frame constituting the principal portion of the external magnetic circuit of the machine, an annular member adapted to be disposed within said frame, a plurality of magnetizable pole-pieces, means for removably securing said pole-pieces within said annular member and means for removably securing said annular member within said frame independently of said first-mentioned securing means.

1,753,534. REENFORCED MINE TIE. JUSTUS J. ROSS, Huntington, W. Va. Filed Apr. 23, 1929. Serial No. 357,490. 3 Claims. (Cl. 238—10.)



1. A mine tie formed of light metal, reenforcing plates applied to the upper surface of the tie so as to aid in supporting the rails to be mounted thereon, clips for securing the rails to the tie, and means for securing the plates to the tie and for pivotally mounting the clips on the plates.

1,753,535. FAUCET. LLOYD G. SCHIMMEL, Los Angeles, Calif., assignor to Perfection Faucet Mfg. Corporation, a Corporation of Nevada. Filed Mar. 9, 1927. Serial No. 173,989. 1 Claim. (Cl. 251—84.)

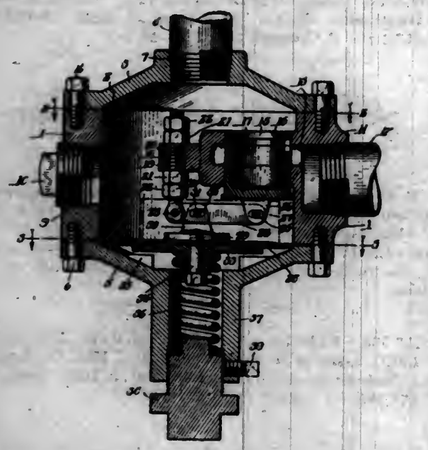


A faucet comprising an integral casing having a longitudinal bore therein open at one end and having an axial inlet and a lateral outlet, an integral valve body detachably held therein and having a head overlying the end of said casing and closing said bore and a portion threaded into the open end of the bore, an annular rib formed on the valve body below said outlet providing an annular chamber in the casing adjacent the outlet, ports being formed in said rib and longitudinal recesses formed in the valve body communicating with said ports, a disk valve engaging the end of the valve body and having ports therein, a stem rotatable in the valve body and connected with said valve, and an operating member on said stem for moving the valve ports to and from registration with the ports in said rib to regulate the passage of the fluid from the inlet to the outlet.

1,753,536. AUTOMATIC PRESSURE-CONTROL VALVE. JOHN C. SCOVEL, Jr., Chicago, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed July 6, 1926. Serial No. 120,592. 3 Claims. (Cl. 137—153.)

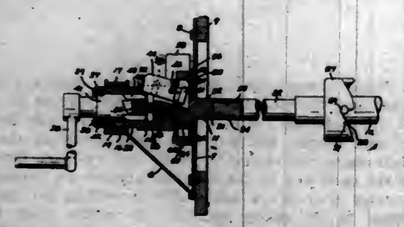
3. A device for automatically controlling evaporation pressure in a refrigerant evaporating container, compris-

ing a casing enclosing a chamber having an open inlet adapted for open communication with said container, a shelf mounted on the wall of said casing within said chamber, said shelf having a transverse valve way opening at both ends into said chamber and having an inner peripheral channel formed in said valve way, said channel opening outwardly of said casing to form an outlet from said chamber, a tubular slide valve operatively positioned in said valve way and controlling said channel, said tubu-



lar valve having endward notches adapted to open and close communication between said chamber and said channel with the movement of said valve member, said valve having constant lateral bearing in said way to close communication to said channel otherwise than through said notches, and means for operating said valve member responsive to the pressure in said chamber, whereby said passage is progressively closed by a lowering pressure in said chamber and is progressively opened by a rising pressure in said chamber.

1,753,537. SAFETY ENGINE STARTER. ALEXANDER TAYLOR, Redlands, Calif. Filed Oct. 4, 1928. Serial No. 310,225. 8 Claims. (Cl. 123—185.)



1. A starting mechanism for an internal combustion engine having a crankshaft, said mechanism comprising a stub shaft engageable with said crankshaft, a crank journalled and mounted for longitudinal movement in axial alignment with said stub shaft, a plurality of spline teeth on said crank adjacent the inner end thereof, a plate secured to the inner end of said crank defining the inner ends of the grooves between said teeth, a pawl pivotally mounted on said stub shaft in position to engage the teeth of said spline, means urging said pawl into engagement with said spline, means urging the crank outwards from the stub shaft, said plate being adapted to engage within a slot in the pawl and hold the crank against longitudinal displacement when the pawl is engaged with the spline, and means operable when the crank-shaft rotates in a reverse direction for withdrawing the pawl from engagement with the spline and plate.

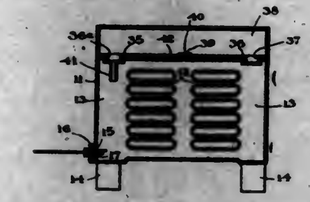
1,753,538. CEMENT. BURR W. TUTTLE, Chicago, Ill. Filed Oct. 18, 1926. Serial No. 142,521. 4 Claims. (Cl. 106—8.)

1. A cement of the character set forth consisting of the following ingredients by measure, seven parts of asbestos, three parts of oxide of zinc, and four parts of iron filings mixed with sufficient shellac to make a paste.

1,753,539. PROCESS OF UNHAIRING HIDES AND SKINS. HARRY M. ULLMANN and EDWIN R. THEIS, Bethlehem, Pa. Filed Dec. 26, 1928. Serial No. 328,619. 4 Claims. (Cl. 149—3.)

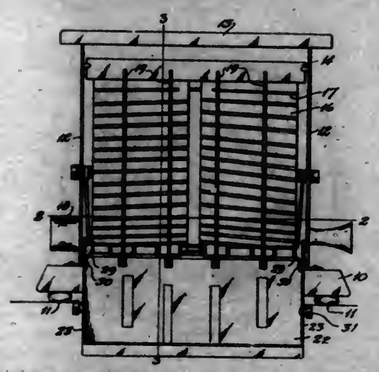
1. Process of unhairing hides which comprises soaking the hides in water containing pancreatin and thereafter liming the soaked hide.

1,753,540. RADIATOR. LOUIS H. VERONNEAU, Montreal, Quebec, Canada. Filed Aug. 19, 1927. Serial No. 214,181. 1 Claim. (Cl. 137—68.)



A radiator comprising a casing presenting a top wall, having a relatively large opening formed therein near each end and a relatively small vent opening formed therein intermediate said large openings, a feed water tank having its bottom wall directly supported on the top wall of said casing, the intermediate portions of the engaging walls of the casing and tank being spaced apart to place the vent opening of the casing in communication with the atmosphere, projections depending from the bottom wall of said tank and fitting in the relatively large openings formed in the top wall of said casing, one of said projections being provided with a pipe extension depending into said casing and affording the sole means of communication between the casing and the tank, said pipe extension functioning as a delivery pipe supplying water from the tank to the casing and being arranged to be sealed by the water in the casing when said water reaches a predetermined level.

1,753,541. TURNOVER TOASTER. GEORGE F. WEBB, Hamilton, Ontario, Canada. Filed Mar. 18, 1929. Serial No. 347,894. 4 Claims. (Cl. 53—5.)



1. In an electric toaster, a base, spaced standards extending up from the base, an inclined bread supporting

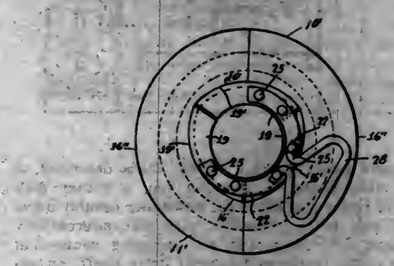
rack between said standards, a swinging crenellated finger bar supported from said standards and having its alternate crenellations movable between positions behind and in front of said rack, and means to actuate said bar.

1,753,542. ADJUSTABLE FASTENER FOR STORM WINDOWS. HENRY P. WELNA, St. Paul, Minn. Filed Jan. 29, 1929. Serial No. 335,846. 1 Claim. (Cl. 292—268.)



As a new product of manufacture, a storm window fastener of the class described comprising a storm window attaching bracket, an elongated arcuate slotted quadrant pivotally connected at one end to said bracket, a retaining fixture adapted to be fastened to the window frame, said fixture being of channel shaped cross section and formed with an elongated slot, a guide block slidable in said fixture and including a threaded stem extending through the slot in said fixture and through the slot in said quadrant, and a retaining nut carried by said threaded stem and cooperable with the quadrant to hold the quadrant in different adjusted positions.

1,753,543. COMPOUND SLIPS. ROBERT A. WILSON and CHARLES S. CRICKMER, Dallas, Tex., assignors to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed Dec. 6, 1926. Serial No. 152,776. 8 Claims. (Cl. 24—263.)



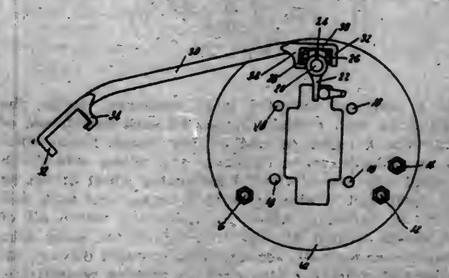
8. Compound slips comprising an outer jacket having a plurality of interior curvilinear faces formed on different radii of curvature from the outer face of the jacket, and a core comprising a plurality of interioriy toothed sectors having their outer faces separately curved on similar radii to seat upon the curved interior faces of the jacket, the outer walls and the inner walls of the jacket being inclined at different degrees.

1,753,544. CEDARIZING DEVICE. CAREY CARTER WINCHESTER, Brookhaven, Ga., assignor to National Cedarchex Corporation, Fulton County, Ga., a Corporation of Georgia. Filed Nov. 2, 1928. Serial No. 316,775. 2 Claims. (Cl. 299—24.)



1. A dispensing device comprising a container having a neck, a movable support for said container, a block formed with a hollowed out portion adapted to contact said container to provide a non-leakable connection, spring means carried by said supporting means and adapted to contact said container and means for locking said support to maintain said spring in contact with the container to unite said container and supporting means into a unitary structure, whereby when the container is inverted the block will be saturated with the contents of the container and distribution thereof to the surrounding atmosphere effected.

1,753,545. ADJUSTING TOOL. GEORGE F. ALTICE and WILLIAM L. YOUNG, South Bend, Ind., assignors, by mesne assignments, to Bendix Service Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 22, 1927. Serial No. 241,758. 1 Claim. (Cl. 29—84.)

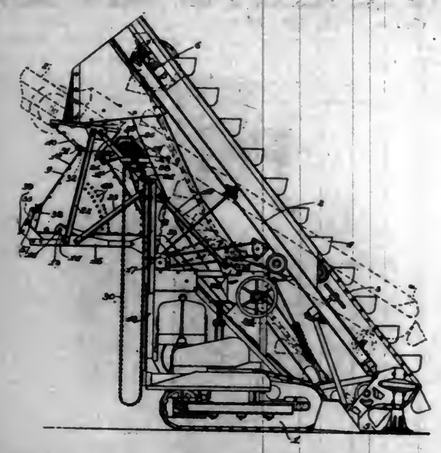


An adjusting tool adapted to embrace a transverse clamping bolt for an operating arm on a shaft, comprising a lever having two projections extending laterally on the same side of the lever, one being a flat and straight projection extending across one end of the clamping bolt, and the other being hook-shaped and formed with a socket to embrace a head or nut on the other end of the clamping bolt.

1,753,546. AUTOMATIC MEASURING HOPPER. HARRY H. BARBER, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a Corporation of Illinois. Filed July 16, 1926. Serial No. 122,818. 18 Claims. (Cl. 214—1.)

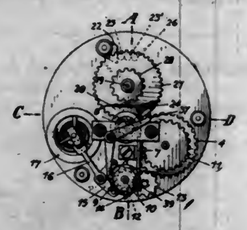
1. The combination of a measuring hopper tiltably mounted, a receiver above said hopper in position to

direct material into the same, means for tilting the measuring hopper for dumping its contents, said hopper



having a wall which extends in inclined position under the receiver during the dumping movement for deflecting material flowing from the receiver.

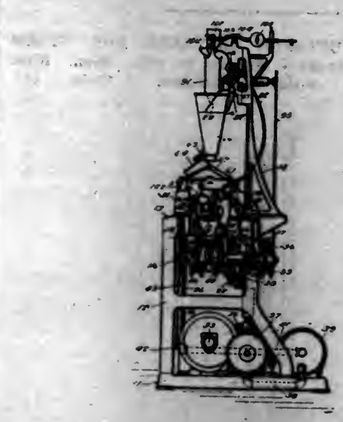
1,753,547. POSITIVE SPEED GAUGE. FRIEDRICH WILHELM GUSTAV BRUHN, Berlin-Wilmersdorf, Germany. Filed Jan. 26, 1927, Serial No. 163,793, and in Germany Feb. 15, 1926. 1 Claim. (Cl. 234—30.)



In a positively operated speed measuring device, the combination with a driving means for such mechanism, of clockworks, a clutch in said driving means, means operable by said clockworks to engage and release said clutch at equal intervals of time, a measuring wheel driven by said clutch and in directly toothed engagement with said clutch, an adjusting wheel, an indicating wheel, all of said wheels located directly adjacent on the same axis, spring means normally tending to return said driving, adjusting and indicating wheels to zero position respectively, a fixed positioning contact for said measuring wheel, driving contact members between said measuring and adjusting wheels and between said adjusting and indicating wheels, ratchet mechanism engaging the adjusting and indicating wheels controlled by the clockworks to stop and release said adjusting and indicating wheels respectively and recording and indicating means operated by said indicating wheels.

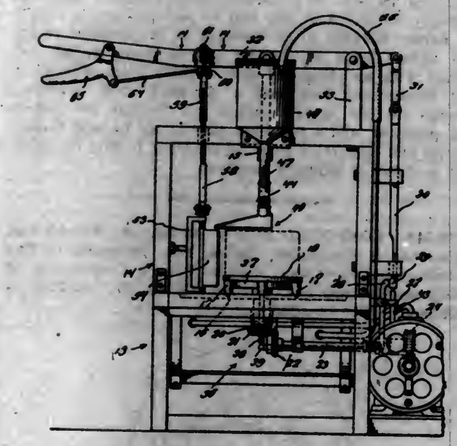
1,753,548. SALT-FILLING MACHINE. WILLIAM F. BUTLER, Hillside, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 8, 1922. Serial No. 534,902. 18 Claims. (Cl. 226—77.)

18. Apparatus for filling containers having in combination container-conveying means, container-filling means comprising a movable spout delivering to the conveyed containers, means for removing and replacing the covers of the containers respectively before and after said de-



livery, and connections whereby said spout is moved to filling position when said removing means has removed the cover of a container.

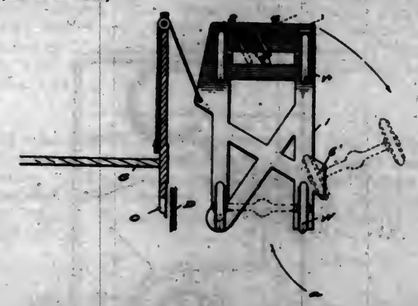
1,753,549. CAKE-ICING MACHINE. JAMES W. CATES, Coffeyville, Kans. Filed Oct. 16, 1928. Serial No. 312,779. 10 Claims. (Cl. 91—2.)



2. In a cake icing machine of the class described, a supporting table having a recessed top, a rotary disk seated in said recess and having a depending tubular drive shaft, said disk being provided with circumferentially spaced sockets, a prime mover, an operating connection between the prime mover and tubular drive shaft, an annular leg equipped cake carrier, the legs of which are provided with dowel pins removably seated in the sockets in said disk, a lifter head associated with said carrier and including a vertical stem slidable through said tubular drive shaft, and operating means for said stem.

10. In a cake icing machine of the class described, a supporting table provided with a rotary disk, a cake carrier on said disk, a lifter head associated with said carrier, and operating means for said lifter head.

1,753,550. TURNTABLE. EGBERT C. COOK, Puente, Calif. Filed Sept. 17, 1928. Serial No. 306,598. 3 Claims. (Cl. 104—44.)



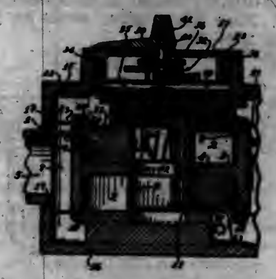
1. The combination with a door, of a turntable, a platform pivotally mounted at one side of one end thereof, said end being adapted to support one of the rear wheels of a motor vehicle, means on the platform for limiting the forward movement of a vehicle thereon, said platform being shiftable about its pivot by actuation of one of the rear wheels of said vehicle, and means operated by the platform while moving about its pivot for opening the door.

1,753,551. SHIRT. JOSEPH L. CORBI, Washington, D. C., assignor of one-third to Victor Galotta, Washington, D. C., and one-third to Henry Pizzutiello, Bronx, N. Y. Filed Mar. 5, 1929. Serial No. 344,510. 1 Claim. (Cl. 2—115.)



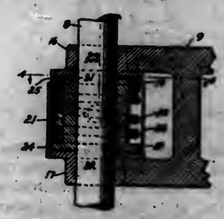
A shirt of the class described having means at the upper portion of its front part for simulating a vest worn over the shirt, such means comprising a pair of strips of lapel shape, each having its inner edge sewn to the shirt on each front half thereof, the strips extending from the upper part of the shoulder seam to the front edge of each half and each front part of the shirt having a slot therein extending upwardly at an incline from the front edge of each part for receiving the lower ends of a necktie, each slot being arranged at the inner edge of the lower portion of each strip.

1,753,552. METER. MEAD CORNELL, San Francisco, Calif., assignor, by mesne assignments, to Lubrequipment Company, a Corporation of California. Filed May 14, 1929. Serial No. 363,016. 4 Claims. (Cl. 73—37.)



1. A meter for measuring fluids passing therethrough under pressure comprising a meter casing provided with a circular piston chamber, a piston within the chamber and of a diameter less than that of the chamber to permit a gyrating of the piston within said chamber, a ring bearing mounted for rotation centrally of said chamber, a connection between said ring and said piston, said connection being eccentric of the ring and axially of the piston, said piston being radially slotted, a bridge plate disposed vertically within the chamber and extending into said slot, said plate at its outer end fulcrumed to swing on a vertical axis, indicator mechanism operated by the movement of said piston, said casing provided with fluid inlet and outlet ports communicating with said chamber, one at each side of said bridge, said piston affording a valve for controlling the opening and closing of said ports.

1,753,553. ADJUSTABLE LAMP SUPPORT. MILES F. DEACH, Oakland, Calif. Filed May 31, 1927. Serial No. 195,876. 3 Claims. (Cl. 248—7.)



1. In combination with a standard, an arm arranged to extend generally radially from the standard and provided with spaced portions arranged to slidably receive said standard, a collar slidably fitting and adjustably fixed to said standard between said portions, a ring encircling said standard and collar between said portions, and means operative to simultaneously and resiliently engage said collar and ring with different of said portions.

1,753,554. ARMATURE-WINDING APPARATUS. FRED G. DEWEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Original application filed Oct. 16, 1924, Serial No. 743,973, now Patent No. 1,622,185, dated Mar. 22, 1927. Divided and this application filed Nov. 13, 1926. Serial No. 148,285. 9 Claims. (Cl. 242—13.)

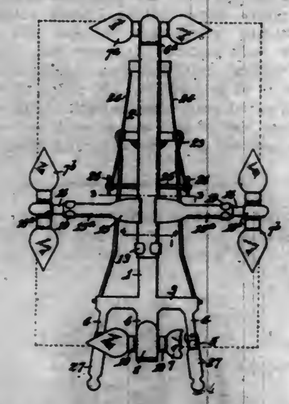


1. Apparatus for winding an armature having an open-slotted core comprising, in combination, clamping members for receiving the core and for rotating the core while guiding a wire into certain slots of the core; and means rotatable with the core for holding a portion of an armature active coil side out of a core slot while the coil is being wound in the core slots.

1,753,555. PICTURE HOLDER. ALBERT DORSEY, Martins Ferry, Ohio. Filed June 25, 1928. Serial No. 288,013. 5 Claims. (Cl. 40—146.)

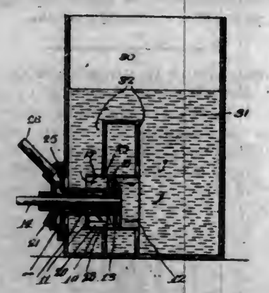
1. A picture holder including a vertical member having means to engage the top and bottom edges of a picture, a

central member having a central loop formed to embrace opposite sides of the vertical member, means to adjustably secure said loop to the vertical member, arms at the ends of the central member, means to adjustably secure the arms to said ends of the central member, the outer



ends of the arms being extended inwardly to form seats for the side edges of a picture and being thence extended outwardly to form loops in conjunction with the outer sides of the seats, and decorative members having portions engaged in said loops so as to be supported thereby.

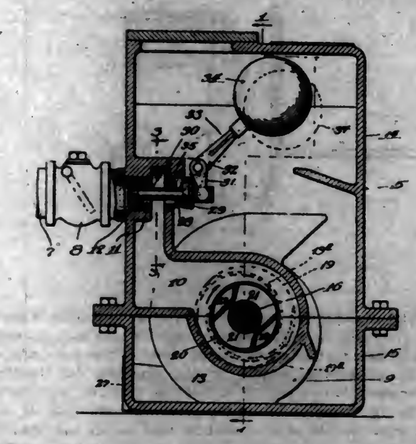
1,753,556. DISPLACEMENT APPARATUS. AUGUSTUS C. DURDIN, Jr., Chicago, Ill. Filed Aug. 2, 1926. Serial No. 126,496. 8 Claims. (Cl. 230—75.)



1. The combination of a casing having a stationary cylindrical wall forming a cylindrical chamber, said casing having also liquid inlet ports and fluid inlet ports leading to said chamber, and a discharge opening leading from said chamber, and rotatory means within said chamber for causing alternative slugs of liquid and fluid to flow through said channel without imparting centrifugal force to said liquid and fluid slugs, said means including an open sided channel extending in a circumferential direction part way around the rotatory means, the open side of said channel being closed by said stationary cylindrical wall.

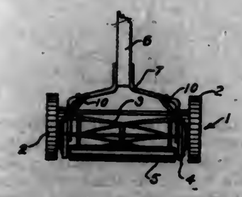
1,753,557. VACUUM CONDENSATION PUMP. AUGUSTUS C. DURDIN, Jr., Chicago, Ill. Filed Feb. 23, 1928. Serial No. 256,164. 16 Claims. (Cl. 103—5.)

1. In a vacuum condensation pump, the combination of a tank, a return conduit from which water, air, and other condensates are discharged into the tank, a vacuum pump from which liquid is discharged into the tank and having an inlet passage in communication with said conduit, through a port between said inlet passage and conduit, a float operated valve for controlling said port, and



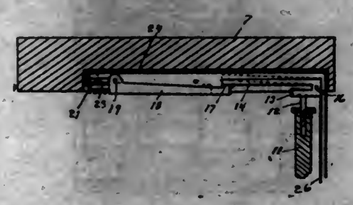
having a float controlled by the level of the liquid in the tank, and a water pump having its inlet communicating with said tank and discharging water therefrom.

1,753,558. ATTACHMENT FOR LAWN MOWERS. WILL EDWARDS, Jacksonville, Ill. Filed July 23, 1928. Serial No. 294,619. 4 Claims. (Cl. 56—249.)



1. An equalizer for lawn mowers, comprising a plurality of strips of suitable material adapted to be secured at their lower ends to the rear portion of the frame of said lawn mower, said strips extending upwardly, their upper ends loosely engaging the bail of the handle of the mower, whereby the pushing force applied to said handle is distributed between the front and rear portions of the lawn mower frame and the rear end prevented from bucking up.

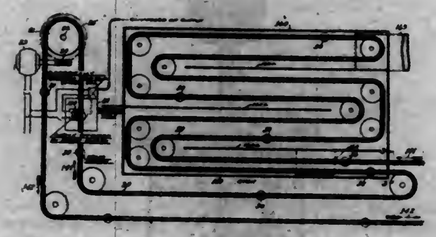
1,753,559. SADIRON. HARRY L. EICHNBROT, San Francisco, Calif. Filed July 2, 1928. Serial No. 290,010. 1 Claim. (Cl. 219—25.)



In a device of the type described a heating element positioned therein, and a handle positioned therein, a rod

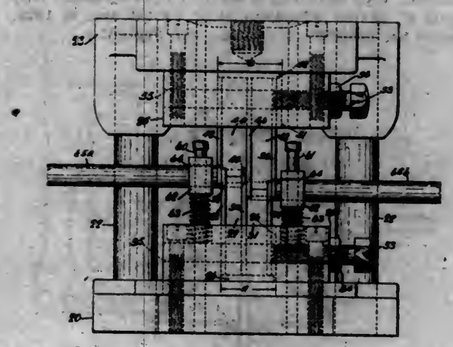
contacting said heating element and having its opposite extremity in close proximity to said handle, a switch lever pivotally mounted in said handle and adapted to be actuated by said rod, an operating lever pivotally mounted in said handle and adapted to contact said switch lever and means for moving said lever into and out of engagement with said switch lever by shifting the pivotal point of said tapering lever.

1,753,560. WORK-HANDLING APPARATUS. RODGER J. EMMERT, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 28, 1925, Serial No. 58,980. Renewed Mar. 25, 1929. 19 Claims. (Cl. 198—19.)



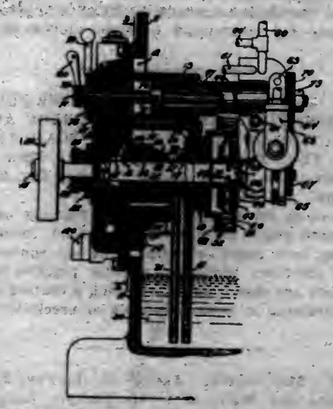
1. Work handling apparatus comprising, in combination, a conveyor including a hanger; an elevator adapted to receive a group of work pieces at one time and to lift the group up to the hanger; and means for securing the group to the hanger; and means automatically controlling the operation of the elevator in response to movement of the hanger relative to the elevator.

1,753,561. MACHINE FOR CUTTING WIRE AND THE INSULATION THEREOF. RODGER J. EMMERT, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 29, 1925. Serial No. 65,688. 8 Claims. (Cl. 81—9.51.)



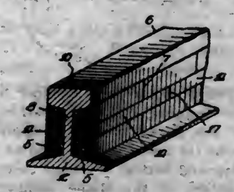
1. Apparatus for making electrical conductory leads from a length of insulated wire, comprising in combination, yieldingly mounted spaced blocks for supporting the insulated wire therebetween; means for moving the wire and blocks and adapted to sever the wire between the supporting blocks; and means for piercing the insulation adjacent the point of severance to facilitate removal of the insulation.

1,753,562. PUMP. JOHN P. FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 20, 1927. Serial No. 199,925. 19 Claims. (Cl. 103—38.)



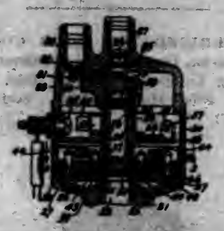
1. In a device of the character described the combination of a plate, a variable displacement pump supported thereby, driving means for said pump supported by and extended through said plate, and pump regulating means supported by said plate.

1,753,563. RAIL FILLER. ALBERT C. FISCHER, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Aug. 21, 1926. Serial No. 130,688. 11 Claims. (Cl. 238—9.)



1. A rail filler comprising a preformed section of a ductile compressible material, constructed and arranged to be inserted in position between the head and base of the rail, said section having a weakened portion so as to permit the sections to yield when hammered into said position, said weakened portion being shaped to receive a reinforcing member, which, when in position, will be interlocked therein and lock said section in position between the head and base of the rail.

1,753,564. IGNITION TIMER. JOHN T. FITZSIMMONS, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 21, 1927. Serial No. 234,610. 5 Claims. (Cl. 200—31.)



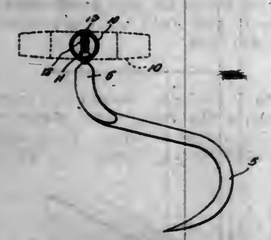
1. An ignition timer comprising, in combination, a drive shaft, a weight plate supported thereon, flat weights pivotally supported by the plate eccentric to its axis, a cam sleeve rotatable coaxially of the shaft, a flat plate at-

tached to the cam sleeve and having lever arms cooperating with the pivoted weights so that the sleeve will rotate as the weights move about their pivots, a flat plate attached to the cam sleeve and extending over the weights but spaced therefrom to permit the weights to pivot freely, and springs for restraining outward movement of the weights.

1,753,565. PROCESS FOR COATING PAPER-PULP VESSELS FOR THE PROTECTION THEREOF AGAINST THE ACTION OF MOISTURE, FAT, SOAP, AND THE LIKE. FRITZ FRANK, Berlin, Germany. Filed Oct. 26, 1925, Serial No. 65,043, and in Germany Oct. 27, 1924. 4 Claims. (Cl. 91—68.)

3. A process for the production of coatings on glazed and unglazed paper pulp and papier-maché, consisting in moistening said paper material with an aqueous solution of a substance having an alkaline reaction in which barium salts are dissolved and applying a coating of sizing liquor containing a medium capable of precipitating said salts.

1,753,566. BOX HOOK. ALFRED E. GANNON, JAMES F. MACNEIL, and WILLIAM J. MACLELLAN, Long Beach, Calif. Filed Nov. 7, 1928. Serial No. 317,748. 1 Claim. (Cl. 294—26.)



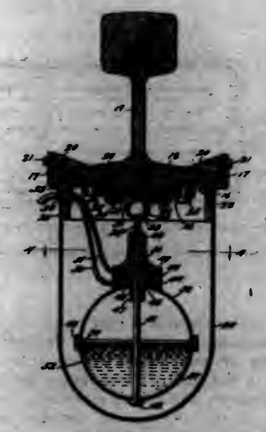
A box hook comprising a hook member having a shank provided with a reduced free end portion, said reduced end portion of the shank having a square enlargement above but near to its lower end, a tubular handle having alined central top and bottom openings through which said reduced end portion of the shank slidably extends, the bottom opening being square to snugly removably receive the square enlargement, stop means on the upper end of said reduced end portion of the shank to limit upward movement of the handle on the latter to a position wherein the enlargement is engaged in said square opening, and a spring interposed between the top of the enlargement and the top of the handle to yieldingly hold the latter upward, said handle being depressible for release from the enlargement and rotary adjustment on the shank of said hook member, and an external square recess in the top of the handle about the top opening to receive the stop means thereby providing a double means for holding the handle in fixed relation to the hook when the handle is in its upward position.

1,753,567. REFRIGERATOR-DOOR CONSTRUCTION. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 21, 1927. Serial No. 176,871. 5 Claims. (Cl. 20—35.)



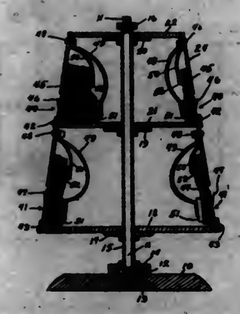
1. A heat insulating door comprising: a one-piece molded bituminous composition frame having a peripheral main flange integral therewith and forming a shoulder adapted to abut against the door opening, a peripherally extending gasket groove molded in the face of said shoulder, and an endless gasket of elastic material stretched around said frame and lying upon said shoulder and having a projecting portion seated in said groove, whereby said gasket is retained in place.

1,753,568. ELECTRIC SIGNAL AND SWITCH THEREFOR. ANTHONY HOROCHOWSKY, Elizabeth, N. J., assignor of one-fourth to Charles Lefchick, Elizabeth, N. J. Filed Sept. 24, 1928. Serial No. 307,799. 9 Claims. (Cl. 246—251.)



1. In an electric signal, a switch comprising a casing, said casing consisting of two sections, a circuit closing element in one of said sections, and means for imparting swinging motions to said casing, said circuit closing element being adapted to intermittently contact with the other section for intermittently closing the electric circuit.

1,753,569. BAG HOLDER AND BAG DISPENSER. WILLIAM W. IRVING, Charlotte, N. C. Filed Aug. 9, 1928. Serial No. 298,569. 4 Claims. (Cl. 312—61.)



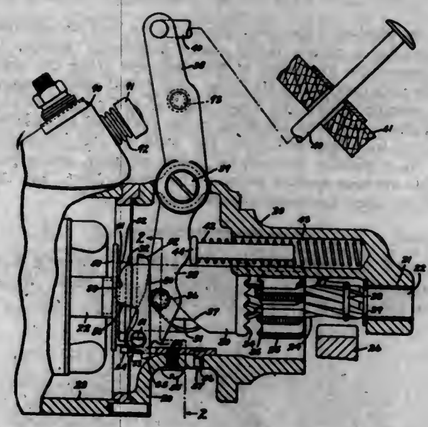
1. In a bag holding and dispensing device, a polygonal hollow member mounted for rotation on a base member, opposite side portions being hinged to permit admittance to the interior thereof, a plurality of holes in the side portions of said polygonal member thru which the bottom portions of paper bags are adapted to be pulled from the interior thereof, a spring-pressed follow member for forcing the bottom portions of the bags out thru the holes, and a spring-pressed member adapted to press against another portion of the bags to prevent wholesale withdrawal of the bags, and a ledge member secured at the outer bottom portion of each hole against which the bags are adapted to be pressed by the said follow member.

1,753,570. PIN. CLIFFORD G. KING, Providence, R. I. Filed Oct. 22, 1929. Serial No. 401,567. 6 Claims. (Cl. 24—161.)



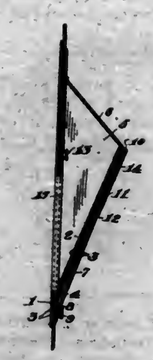
1. A pin having a relatively thick enamelled front plate, a pin-tongue of spring material bent upon itself and comprising an upper and a lower arm, a housing for the bent portion of said pin-tongue, a catch for the pointed end of said pin-tongue, and means for flexibly securing the bent portion of said pin-tongue to said front plate, the free end of said lower arm being flexibly secured to said front plate.

1,753,571. ENGINE-STARTING APPARATUS. JOHN W. LAWSON, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 17, 1928. Serial No. 255,125. 33 Claims. (Cl. 74—7.)



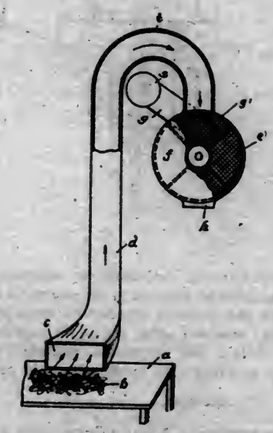
1. Engine starting apparatus comprising in combination, a motor, a shaft driven by the motor, means for connecting the shaft with an engine to be started and including a pinion connected with the shaft and movable into mesh with an engine gear and provisions whereby the pinion will be automatically demeshed from the gear when the engine starts, manually operated means for moving the pinion into mesh with the gear and having provisions for rotating the pinion while it is pressed against the gear, and means operable upon the release of the manually operable means for rotating the shaft.

1,753,572. PULLMAN-BERTH-CURTAIN VENTILATOR. LINN OLAF B. LINDSTROM, San Francisco, Calif. Filed Apr. 27, 1929. Serial No. 358,539. 1 Claim. (Cl. 98—5.)



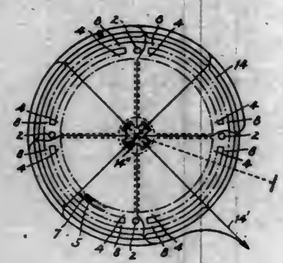
A curtain ventilator consisting of a sufficiently flexible border and shutter, shutter supports of side cloth and air passage screen, with cord, cord loop and button to hold shutter open and buttons to hold shutter closed.

1,753,573. PROCESS AND APPARATUS FOR PREPARING RAW TOBACCO. VALENTIN LORENTZ, Dresden, Germany, assignor to United Cigarette Machine Company Aktiengesellschaft, Dresden, Germany. Filed Apr. 28, 1928, Serial No. 273,643, and in Germany Sept. 20, 1927. 16 Claims. (Cl. 131—60.)



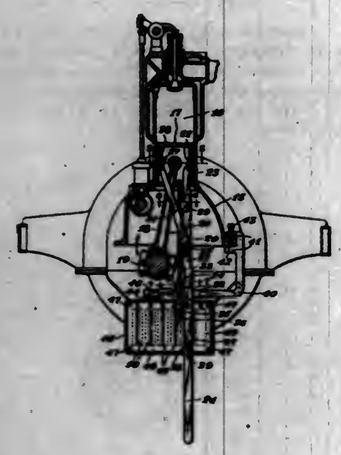
1. A method of separating bundled tobacco leaves according to which a bundle of tobacco after having been untied is subjected to the separating action of a current of air of sufficient force to strip off the leaves from the bundle.

1,753,574. AERODROME. WILLIAM ARTHUR LOTH, Paris, France, assignor to Societe Industrielle des Procédés W. A. Loth, Paris, France, a Company of France. Filed Aug. 27, 1926, Serial No. 132,002, and in France Sept. 19, 1925. 2 Claims. (Cl. 244—2.)



1. An aerodrome of regular geometrical shape inscribed within a circle and including a peripheral underground gallery, underground shelters opening in said gallery, means of access to said gallery, and a circular electro-magnetic guide cable arranged adjacent said gallery.

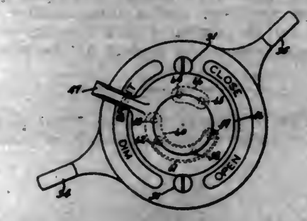
1,753,575. WEAR-INDICATING APPARATUS. STUART M. MILNE, Seattle, Wash. Filed Apr. 26, 1926. Serial No. 104,603. 6 Claims. (Cl. 81—3.)



1. In an apparatus of the character described, comprising a vibratile member adaptable for engaging a piston to be tested while the same is operatively mounted upon its connecting rod, whereby such piston is oscillated during reciprocation within its correlated cylinder, and means for detachably securing said member to said piston.

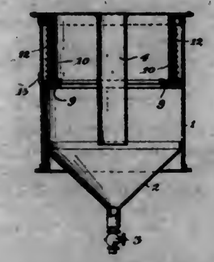
1,753,576. SWITCHING APPARATUS FOR STEERING-COLUMN CONTROLS. HARRY E. NORVIEL, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 28, 1925. Serial No. 26,432. 5 Claims. (Cl. 200—4.)

1. Electric switching apparatus for the steering column controls of an automotive vehicle comprising, in combination with a stationary metallic bracket mounted above the steering wheel hub, a metallic switch base supported by said bracket and providing a tubular recess and having a tubular extension surrounding the recess, a push-button switch received by said recess and having a movable contact cooperating with the end of said extension which



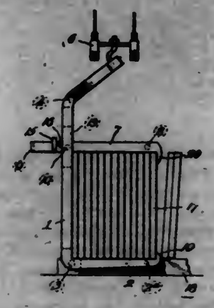
provides a switch contact grounded on the frame of the vehicle through the steering column, a switch lever journaled upon said extension, a movable contact carried by said lever, and a stationary contact insulatingly supported by said switch base.

1,753,577. FILTERING AND DECANTING APPARATUS. CESARE PICCARDO, Genoa, Italy. Filed Aug. 21, 1928, Serial No. 301,085, and in Germany Feb. 18, 1928. 5 Claims. (Cl. 210—43.)



1. A filtering apparatus for filtration and decantation comprising a textile fabric easily detachably applied in the immediate proximity of the shell and along the shell of the apparatus, with its upper edge nailed upon an angle iron secured along the upper edge of the receptacle and with the lower edge adhering in the cavity of an annular bent U iron fastened upon the shell of the receptacle and there tightly fastened by means of sand, and a permeable element applied between the textile fabric and the shell to space the textile fabric from the shell.

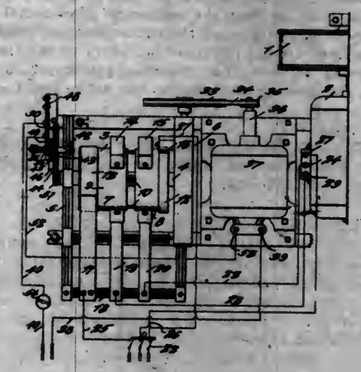
1,753,578. PLATE-CONVEYING HOOK. GWYNNE RAYMOND, Kansas City, Mo. Filed Oct. 22, 1928. Serial No. 314,109. 2 Claims. (Cl. 294—67.)



1. A device of the character described, comprising a pair of substantially vertical right angle shaped similarly

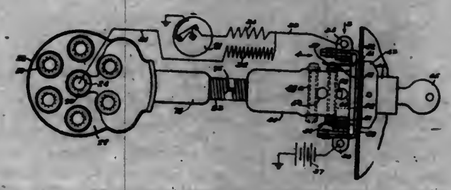
facing angle members connected together at their upper ends and having upturned hooks at the free ends of their lower or substantially horizontal arms, a pair of similar hooks relatively inverted with respect to the first-named members and adapted to extend substantially parallel with the lower arms of the latter and pivotally mounted on the vertical arms of the latter at an intermediate point in their length.

1,753,579. AUTOMATIC CONTROL FOR ELECTRIC SIRENS. MICHAEL REULE, Charleston, Ill. Filed July 3, 1926. Serial No. 120,479. 1 Claim. (Cl. 200—92.)



The combination with the drum shaft of an intermittent circuit closer, and a motor for operating the said shaft, of a circuit breaker comprising a shaft, a gear rotatable thereon, a pinion upon the drum shaft meshing with the said gear to impart rotary motion thereto, said gear being movable longitudinally of the shaft upon which it is mounted whereby to be shifted into and out of mesh with the pinion, and a spring mounted on the shaft and bearing against the gear for holding the same in position to mesh with the pinion, a contact disc carried by and insulated from the gear and having an interrupted portion, and contacts in circuit with the motor, one of the contacts engaging the disc in the path of movement of the interrupted portion thereof and the other contact engaging the disc at another portion thereof.

1,753,580. THEFT-PREVENTING DEVICE. HERMAN SCHWARZE, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 20, 1927. Serial No. 214,294. 8 Claims. (Cl. 200—19.)

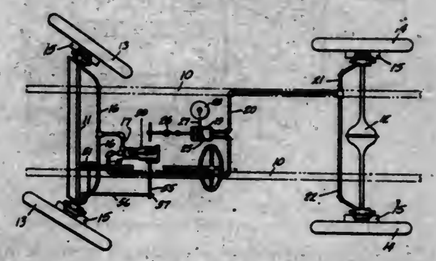


2. Theft preventing apparatus for automotive vehicles comprising an ignition distributor head having an ignition secondary terminal, a metal support for the head, a switch in the head for electrically connecting the head with the support to ground said secondary terminal, and key controlled means for closing the switch.

1,753,581. BEARING AND METHOD OF MAKING SAME. RALPH L. SEABURY, Toledo, Ohio, assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,541. 16 Claims. (Cl. 308—242.)

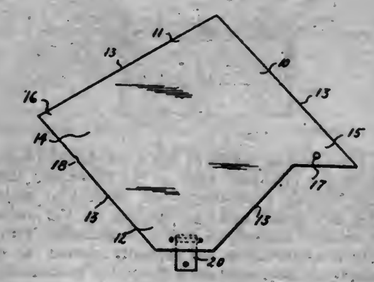
1. A bearing having a granular porous body portion and an electroplated bearing surface tending to seal the pores.

1,753,582. BRAKE. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 28, 1924. Serial No. 702,540. 3 Claims. (Cl. 188—152.)



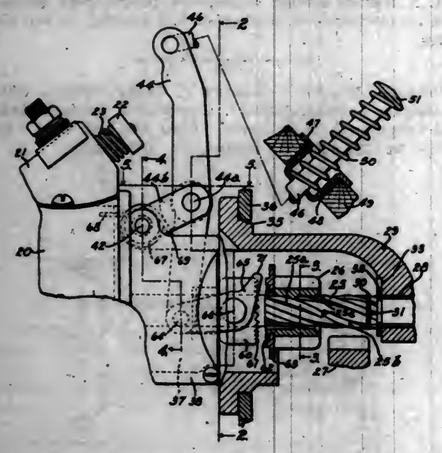
1. In fluid pressure brakes for dirigible vehicles having brakes upon the rear or drive wheels and brakes upon the front or directing wheels, all operable through conduits from a common pressure cylinder, means for regulating the braking effect upon the front wheels, said means comprising a valve in the conduit leading thereto, means acting to maintain said valve open during straight line progression of the vehicle, a cylinder with which said conduit communicates, a piston movable within said cylinder, and means operable by and in unison with steering movement of the vehicle for bringing about movement of said piston in a direction to increase the total volume of said conduit, and to cause said valve to close.

1,753,583. ROOFING. ALEXANDER S. SPEER, Buffalo, N. Y., assignor, by mesne assignments, to Certain-teed Products Corporation, a Corporation of Maryland. Filed Nov. 25, 1925. Serial No. 71,360. 11 Claims. (Cl. 108—33.)



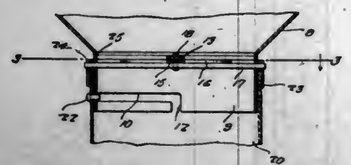
7. A securing means for roofing material comprising a thin metal strip attached to said material by a universal connection, thereby permitting universal adjustment of the material in respect to the strip after the securing means is fixed to a roof.

1,753,584. ENGINE-STARTING APPARATUS. WILFORD H. TESTER, Dayton, Ohio, assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Sept. 22, 1928. Serial No. 307,745. 5 Claims. (Cl. 74—7.)



1. An engine starter drive comprising a rotatable driving member axially movable into engagement with a rotatable part connected with an engine to be started; and manually operable means for moving the driving member axially and for turning it when necessary to effect its engagement with the engine part, said means including a part movable along the axis of the driving member and adapted to apply a force to the driving member oblique and eccentric to its axis, an actuator having a portion connected with said part and mounted for movement transversely and longitudinally of the axis of the driving member, and a spring for resisting transverse movement of the actuator portion away from the axis of the driving member whereby the angle between said part and axis of the driving member will increase in response to continuing the movement of the actuator portion after the driving member meets with obstruction by the engine part before connecting therewith.

1,753,585. DISPENSING DEVICE. JAMES R. UMSTEAD, Huntington, W. Va., assignor to Forrest H. Brundage, Toledo, Ohio. Filed Oct. 23, 1928. Serial No. 314,381. 4 Claims. (Cl. 221—95.)



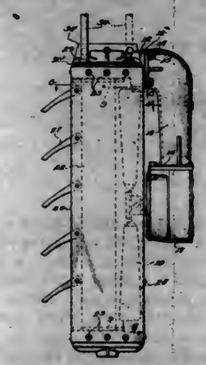
1. In a dispensing device of the class described, a container having a discharge neck at the lower end thereof, a cup for holding a predetermined amount of material, means for detachably securing the cup on the discharge neck exteriorly thereof, a valve mechanism arranged within the discharge neck for normally closing the same, and cooperating means between the valve mechanism and the cup when said cup is secured on the neck for moving the valve to an open position when the cup is rotated about the neck to permit the filling of the cup, a cross bar having one end extending through circumferential slots formed in the neck, a valve plate secured on the cross bar for movement therewith within the discharge neck, the upper edge of the cup being formed with a notch for receiving the projecting end of the cross bar.

1,753,586. MANUFACTURE OF THE RIMS OF MOTOR-VEHICLE STEERING WHEELS. GEORGE WARWICK, Birmingham, England. Filed Apr. 2, 1928, Serial No. 266,844, and in Great Britain Apr. 29, 1927. 4 Claims. (Cl. 153—2.)



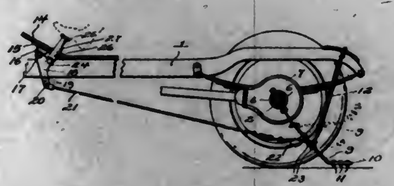
1. The method of forming a tubular steering wheel rim from a single metal strip consisting in fashioning the latter by rollers into a part-tubular formation having separated longitudinal edges, fashioning the shaped strip into a circular rim form, so that the separated longitudinal edges of the strip extend around the outer periphery, stamping up projections around the inner periphery of the rim by a tool passing between the separated peripheral edges of the rim, and subsequently closing the said edges together.

1,753,587. SPACE HEATER. FRED M. YOUNG, Racine, Wis. Filed Apr. 29, 1929. Serial No. 358,872. 4 Claims. (Cl. 257—137.)



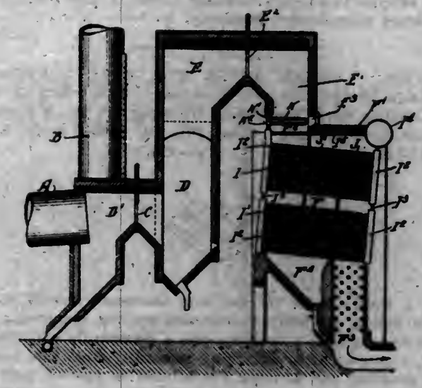
1. A device of the class described comprising upper and lower header tanks and a heat transferring core, portions of said tanks being extended rearwardly of said core in overhanging relation, side plates on said core having channel-shaped front edge portions, reinforcements extending longitudinally of said edge portions, air deflectors adjustably mounted on said reinforced edge portions, and means for passing a current of air through said core comprising a fan propeller partially enclosed by the overhanging tank portions and said side plates.

1,753,588. NONSKID BRAKE. JESSE W. BAILLIE, Newark, Ohio. Filed Nov. 5, 1928. Serial No. 317,205. 3 Claims. (Cl. 188—5.)



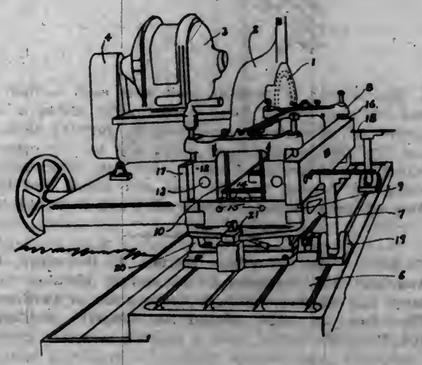
1. In a motor vehicle, the combination with the rear axle housing, of a brake member pivotally associated with said axle housing, means for holding said member normally off the ground, said brake member including a foot disposed at an angle to the main portion of the brake member, and provided with keyhole slots for the reception of pointed projections, and a plate connected with said foot and serving to keep said projections within said slots.

1,753,589. WASTE-HEAT BOILER. JOHN E. BELL, Brooklyn, N. Y.; Lola R. Bell executrix of said John E. Bell, deceased. Filed Oct. 1, 1923. Serial No. 665,702. 6 Claims. (Cl. 122—7.)



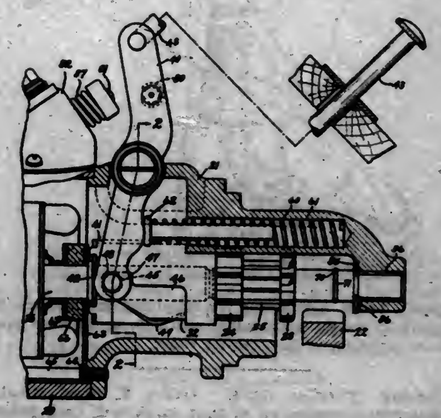
1. The combination in a waste heat boiler of the horizontal water tube type transversely baffled to provide a plurality of transverse passes for the heating gases, of means providing an inlet for the heating gases opening downward to the upper end of the transverse pass adjacent one end of the boiler, and common means for collecting dust separating out of the heating gases in said pass and the pass immediately adjacent thereto.

1,753,590. WORKHOLDER FOR BAR-GRINDING MACHINES. FREDERIC K. BENEDICT, Big Rapids, Mich., assignor to Covel-Hanchett Co., Big Rapids, Mich., a Corporation of Michigan. Filed Dec. 27, 1927. Serial No. 242,795. 2 Claims. (Cl. 51—217.)



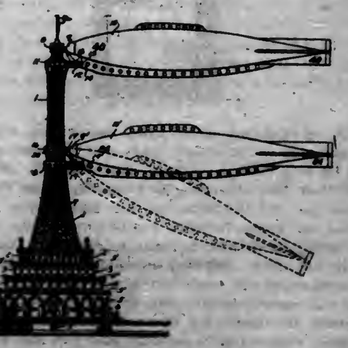
1. In a machine for face-grinding locomotive guides and similar work, a turn table having upright work-supporting cradles at its ends remote from its axis, each cradle provided with two oppositely directed pivotally mounted work-supporting bars, means for adjustably tilting each bar independently, means for clamping an end of a piece of work down upon a tiltable bar, an adjustable guage plate co-operatively associated with the work-supporting bar, and a pair of face gauges hinged at their bottoms to fixed supports near the ends of the work and adapted to be swept in the arc of a circle over the front face of the work, for the purposes set forth.

1,753,591. ENGINE STARTER. RALPH BERTSCHE, Jr., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 15, 1928. Serial No. 319,697. 19 Claims. (Cl. 74—7.)



1. Engine starting apparatus comprising, in combination, a drive pinion movable endwise into mesh with a gear connected with the engine to be started, a pilot pinion adapted to mesh with the engine gear, manually operable means for causing the pilot pinion first to mesh with the engine gear and then the drive pinion, and a connection between the pilot pinion and drive pinion such that the drive pinion will be guided into mesh with the engine gear.

1,753,592. AIRSHIP TERMINAL. GILBERT BETANCOURT, Detroit, Mich., assignor to Aircraft Development Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 9, 1927. Serial No. 189,962. 5 Claims. (Cl. 244—2.)

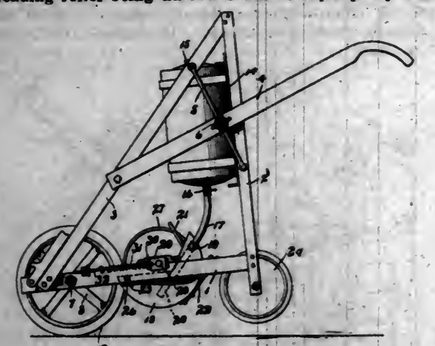


1. An airship mooring tower having a plurality of mooring stations at widely different elevations, one above the other, whereby the same tower may moor at the same time a plurality of ships, means for limited adjustability of height for each of the mooring means on the tower and a rotary loading platform at each at a fixed elevation.

1,753,593. ROAD MARKER. GEORGE W. BETTES, Sparta, Mich. Filed June 18, 1927. Serial No. 198,573. 5 Claims. (Cl. 91—50.)

3. A road marking machine comprising, a transfer roller having its periphery covered with paint holding material and adapted to ride over the surface of a road, a spreading roller having its periphery bearing against

the periphery of the transfer roller the periphery of the spreading roller being narrower than the periphery of the



transfer roller, and means for supplying paint to the periphery of the spreading roller which in turn applies paint to the periphery of the transfer roller.

1,753,594. FLORAL CASE. JAYSON K. BOND, Milwaukee, Wis., assignor to Federal Asbestos & Cork Insulation Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 15, 1928. Serial No. 285,751. 2 Claims. (Cl. 312—116.)



1. A refrigerated show case, comprising bottom, top, rear and side walls, glazed doors and windows closing the front of said case, a vertical wall inwardly of the front of the case and extending downwardly from the top and terminating intermediate the top and bottom, said wall defining an upper forward compartment, the top of the same being open, and a main refrigerated compartment, and an angularly disposed multi-layered window between said compartments, the front of the case having an elongated rail thereadjacent, the arrangement being adapted to permit the mounting of an incandescent bulb within the upper compartment between said rail and the window for illuminating both compartments.

1,753,595. CORNER MITER FOR SCREEDS. JAMES HENRY BOWMAN, Bridgeport, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed July 26, 1929. Serial No. 381,323. 6 Claims. (Cl. 72—125.)



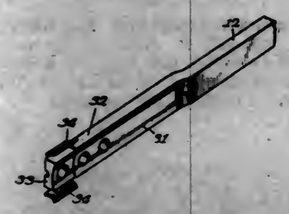
1. A corner miter for use with a screed having a centrally disposed rib comprising a body member formed of sheet metal, offset portions extending outwardly therefrom and at right angles to the body member and to each other, and a vertically disposed angular member secured to the body member and having its lower edges spaced from the inner edges of the offset portions, the offset portions being adapted to engage between the sides of said rib and the angular member having a part overlying the outer face of the screed.

1,753,596. CORNER MITER FOR BASE SCREEDS. JAMES HENRY BOWMAN, Bridgeport, Ohio, assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed July 26, 1929. Serial No. 381,324. 5 Claims. (Cl. 72—125.)



1. A corner miter for use with baseboard screeds having a hollow rib and an attaching portion comprising a body formed with a shoulder and a rearwardly extending part, a pair of arms extending outwardly from said body and shoulder and forming a continuation thereof, and a pair of fingers projecting outwardly from the rearwardly extending part and having their inner edges disposed spaced from the adjacent edges of the arms, the arms being adapted to be inserted within the hollow rib and the fingers being adapted to overlie and engage the outer face of the screed.

1,753,597. METHOD OF FORMING LOCK NUTS. HARLEY E. BURNS, Columbus, Ohio. Filed May 4, 1927. Serial No. 188,614. 4 Claims. (Cl. 10—86.)



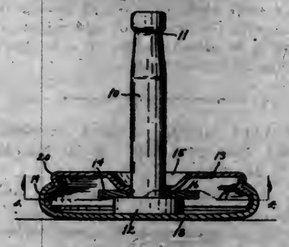
1. The method of forming lock nuts each having recessed top and bottom faces consisting of taking a rectangular bar of material, progressively forming said recessed top and bottom faces along the bar by opposed relatively reciprocating forming elements, progressively piercing the formed bar for each nut blank, and then cutting off each formed and pierced blank from the bar.

1,753,598. SHEET LATH. GEORGE A. BUTTRESS, Los Angeles, Calif., assignor to F. and B. Holding Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 28, 1927. Serial No. 236,081. 6 Claims. (Cl. 72—116.)



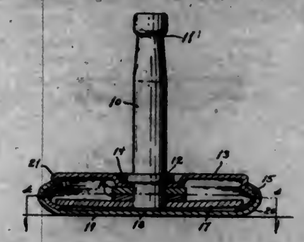
1. A fabricated rib lath, comprising a backing sheet, a series of spaced parallel ribs adhered to said backing sheet, and a facing sheet covering the outer faces and sides of said ribs and adhered thereto; said facing sheet extending between adjacent ribs in intimate superficial contact with the backing sheet throughout the area thereof extending between the ribs, and forming a flexible connection between said ribs; said backing sheet and facing sheet being projected beyond the marginal ribs to form flaps.

1,753,599. FURNITURE GLIDE. WALTER RALEIGH DARNELL, Long Beach, Calif. Filed July 13, 1927. Serial No. 205,384. 2 Claims. (Cl. 16—42.)



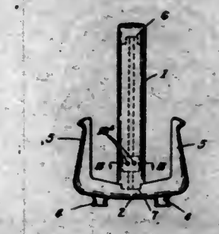
1. A furniture glide comprising a stem formed with an integral head at its lower end, a shell having a central aperture to receive said stem, the material of said shell being pressed into close engagement with said stem immediately above the head thereof, said shell being formed with a circumferential depending skirt, and a shoe having an upwardly extending wall pressed into frictional engagement with the outer surface of said skirt, said shell having at its inner periphery a substantially cylindrical flange embracing a portion of said stem and engaging at its lower end the head of said stem.

1,753,600. FURNITURE GLIDE. WALTER RALEIGH DARNELL, Long Beach, Calif. Filed July 13, 1927. Serial No. 205,385. 2 Claims. (Cl. 16—42.)



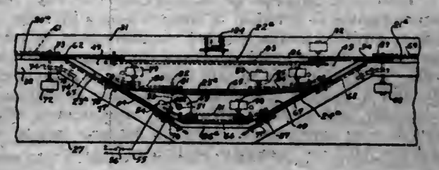
1. A furniture glide comprising a shoe having a peripheral upstanding wall, a shell formed with a central aperture and with a countersink concentrically thereof and with an annular plane surface of material and considerable width outside of said countersink, said shell being formed with a depending skirt adapted to fit within the wall of said shoe and having an inwardly directed lower marginal portion, a stem formed with a peripheral flange providing a shoulder spaced from its lower end, said stem extending through the aperture of said shell and arranged with its peripheral flange entirely received within said countersink, a spacing member mounted on said stem in engagement with the lower surface of the countersink of said shell, and a reenforcing disk on the lower end of said stem in engagement with said spacing member and also having its margin overlapping and resting upon the inwardly directed marginal portion of the skirt of said shell, said stem being upset against the lower face of said disk, whereby the stem, shell, spacing member and disk are rigidly assembled together, the wall of said shoe being pressed into frictional engagement with the outer surface of said skirt to assemble the shoe to said shell.

1,753,601. ELECTRIC HEATER. GEORGE EATON, Cleveland, Ohio, assignor, by mesne assignments, to Pan Electric Manufacturing Corporation, a Corporation of Ohio. Filed July 6, 1927. Serial No. 203,771. 21 Claims. (Cl. 219—19.)



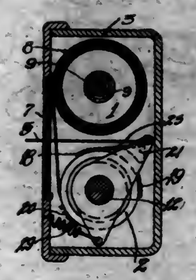
1. An electric heater comprising a preliminarily and completely formed integral, one-piece, main frame unit, an electric resistance, and a holder upon which said resistance is mounted, said holder having resilient means adapted for spring engagement with said frame for assembly of the same in said complete frame unit.

1,753,602. METHOD AND APPARATUS FOR DIRECTING THE SWITCHING OF RAILWAY CARS AT YARDS AND TERMINALS. LEON M. GIBBS, Chicago, Ill., assignor, by mesne assignments, to Teleswitch Corporation, a Corporation of Alabama. Filed Feb. 8, 1927, Serial No. 166,762. Renewed June 26, 1929. 43 Claims. (Cl. 104—26.)



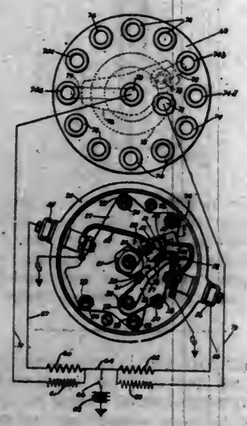
40. The method for indicating the position and movement of railway vehicles in a multiple track railway yard, which consists in providing separate indicia for the separate tracks in said yard, and causing the separate vehicles to present identifying indicia in association with the indicia for the tracks they occupy.

1,753,603. CHANGEABLE EXHIBITOR. WILLIAM J. GRAY, Eugene, Oreg. Filed Jan. 3, 1929. Serial No. 330,095. 3 Claims. (Cl. 40—90.)



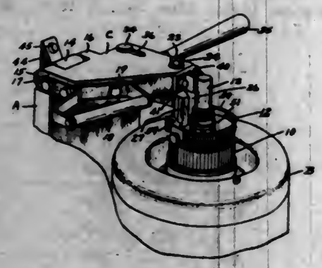
1. The combination with a spring controlled roller, an operating roller having stepped ratchets thereon, a shaft for the operating roller and a web connected to said rollers, of an operating lever pivoted on the shaft, reversible pawls carried by said lever for alternate co-action with said ratchets, and a spring for holding the lever in normal position.

1,753,604. IGNITION APPARATUS. HERMAN LEWIS HARTZELL, Anderson, Ind., assignor to Delco-Remy Corporation, Anderson, Ind., a Corporation of Delaware. Filed May 15, 1929. Serial No. 363,394. 9 Claims. (Cl. 123—148.)



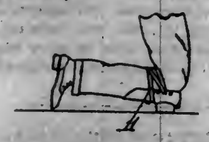
1. Ignition apparatus for multicylinder internal combustion engines comprising, in combination, a plurality of primary circuits, means adapted simultaneously to interrupt said circuits, said means comprising a pivoted breaker lever, a contact on said lever for each primary circuit, and a member insulatingly supporting a stationary contact for each primary circuit, the breaker lever being operable simultaneously to move its contacts out of engagement with the respective stationary contacts.

1,753,605. APPARATUS FOR ASSEMBLING ARMATURES. MORTIN HENNING, Dayton, Ohio, assignor, by mesne assignments, to Delco Products Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 9, 1928. Serial No. 311,395. 6 Claims. (Cl. 29—84.)



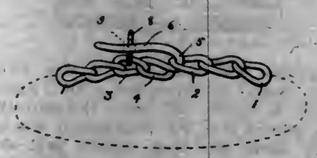
1. An apparatus for securing balance weights having formable parts to a retainer on a shaft to be balanced, comprising, in combination, a pivotally mounted support, means for holding each balance weight while being attached, a pair of movable members each having a jaw on one end for engaging the formable parts of the balance weights for securing the balance weights in place, and means for moving said members.

1,753,606. KNEELING PAD. WILLIAM HOLMES, Chicago, Ill. Filed Oct. 24, 1928. Serial No. 314,715. 8 Claims. (Cl. 2—24.)



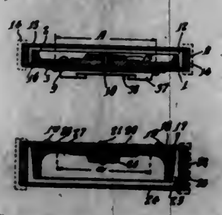
1. A one piece molded kneeling pad of resilient material including a knee receiving recess and having a suction cup for engaging a work surface, said pad having an aperture communicating with the interior of said cup and said recess disposed so as to be closed by the knee of the wearer for creating suction within said cup.

1,753,607. CHAIN HOOK. GUSTAV JOHNSON, Duluth, Minn. Filed June 21, 1929. Serial No. 372,721. 1 Claim. (Cl. 24—68.)



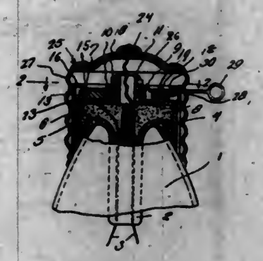
A terminal hook for chains having twin loops at one end one being open for selective engagement with links of one end of the chain and the other loop permanently attached to the opposite end of the chain, and a hook carried by the chain adjacent the terminal hook for locking engagement therewith.

1,753,608. MOLDING APPARATUS. LLOYD D. KAY, Los Angeles, Calif. Filed Jan. 30, 1928. Serial No. 250,602. 4 Claims. (Cl. 22—158.)



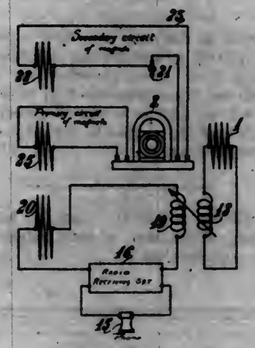
1. In molding apparatus for molding wheels or the like in a flask, a pattern having a plate in combination with an annular pattern member corresponding to the rim of the wheel permanently attached to the side of the plate, and a central pattern member removably attached to the plate corresponding to the central part of the wheel and matching with the annular pattern member to form joints on radial lines to form a complete pattern for the drag of the mold, a second pattern having a plate in combination with a second annular pattern member corresponding to the rim of the wheel permanently attached to the side of the second named plate, and a second central pattern member removably attached to the second named plate corresponding to the central part of the wheel and matching with the second named annular pattern member to form joints located on radial lines from the center of the pattern to form a complete pattern for the cope of the mold, said first named central pattern member and said second named rim member being constructed so that they will not match together to form joints of the pattern, and said second named central pattern member and said first named annular pattern member being constructed so that they will not match together to form joints of the pattern.

1,753,609. BASE CONSTRUCTION FOR ELECTRIC BULBS. AUGUST C. KOETH and SIEGFRIED REDEKER, Sunbury, and KURT MAHNKE, Williamsport, Pa. Filed Apr. 9, 1927. Serial No. 182,428. 3 Claims. (Cl. 176—31.)



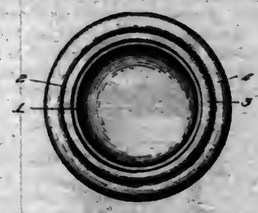
1. A device comprising an electric bulb having a filament therein, a base casing mounted on one end of said bulb, a contact member mounted on said casing, said casing having an arcuate projection thereon provided with a pair of shoulders, a rotatable member mounted on said base casing, a contact tongue and a locking tongue carried by said rotatable member, said contact tongue being adapted for frictional engagement with the contact member on the casing when in one position and said locking tongue cooperating with the arcuate projection for locking said rotatable member against rotation on said casing when in another position, said rotatable member being normally prevented from movement into locking position by the frictional engagement of said contact tongue and the contact member during the application of the device to a lamp socket and operable for movement into locking position upon removal of the bulb from the socket.

1,753,610. MEANS FOR ANNULLING THE EFFECT OF STRAY FIELDS ON RADIO RECEIVING SYSTEMS. WILLIAM ARTHUR LOTH, Paris, France, assignor to Societe Industrielle des Procedes W. A. Loth, Paris, France. Filed Oct. 3, 1923, Serial No. 666,395, and in France Sept. 7, 1923. 5 Claims. (Cl. 250—20.)



1. In a magnetic field or electro-magnetic wave receiving system including a loop antenna, an internal combustion engine having a magneto with primary and secondary winding, an emitting winding arranged in series with the primary winding of the magneto to induce in the antenna currents which are equal and in opposition to those induced by the primary current of the magneto.

1,753,611. TRAY. MELVIN S. LOWER, Barberton, Ohio, assignor to The Sun Rubber Company, a Corporation of Ohio. Filed Aug. 15, 1928. Serial No. 299,864. 2 Claims. (Cl. 215—12.)



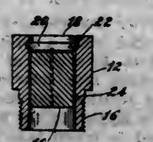
1. A device of the character described, comprising a cup-shaped member of flexible rubber having a thick flange-like part around the exterior of the lower end, the bottom face of said member being concave, and a rigid receptacle fitting into the cavity in said member.

1,753,612. TANDEM-WHEELED AIRCRAFT. FLORIAN F. MANOR, Oshkosh, Wis. Filed July 23, 1927. Serial No. 207,965. 1 Claim. (Cl. 244—2.)



In an airplane capable of sustained flight, the combination of a body portion having an opening in the lower part thereof toward the rear of the body and having the lower part of the front curved upwardly and outwardly for a substantial distance, a single wheel mounted in the rear opening, a single steerable front wheel projecting from the upwardly curved front portion, and a driving motor and propeller carried by the outwardly curved front portion in advance of the front wheel.

1,753,613. GAS BURNER. PHILIP WM. MCCOY, Toledo, Ohio, assignor to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Jan. 10, 1929. Serial No. 331,540. 7 Claims. (Cl. 158—99.)



7. A gas burner comprising a cylindrical plug, a tubular body within which said plug is supported in concentrically spaced relation to provide a restricted annular feed passage for the gaseous mixture to be burned, said plug terminating short of the outlet end of said body whereby a shallow well is provided, the well being undercut below its top, the rim at the mouth of said well having substantially the same internal diameter as the outer wall of the feed passage.

1,753,614. FLASH LIGHT ATTACHMENT. NICKOLAS MENOUSSIS, New York, N. Y. Filed Dec. 28, 1928. Serial No. 329,050. 3 Claims. (Cl. 240—10.5.)

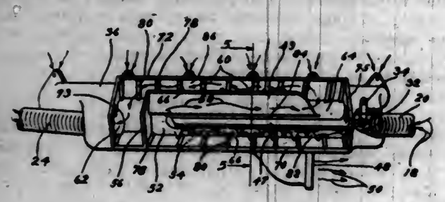
1. In combination with a flashlight having a tubular casing, a concavo convex lens at one end of said casing and

a source of light, guides located upon diametrically opposite sides of the casing, arms disposed longitudinally of the casing and movable in said guides, a concavo con-



vex lens mounted at the outer ends of the arms and positioned reversely with respect to the first mentioned lens, and means connecting the arms to move the same simultaneously and adjust the relative positions of the lenses.

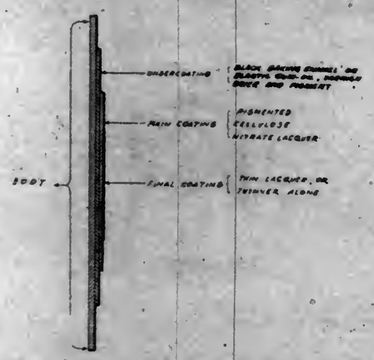
1,753,615. AUTOMOBILE HEATER. EARL BALFOUR MILLER, Brattleboro, Vt., assignor to Mastercrafts Corporation, Brattleboro, Vt., a Corporation of Vermont. Filed Nov. 21, 1925. Serial No. 70,551. 7 Claims. (Cl. 257—241.)



4. A heating device comprising a manifold for waste heated gases provided with a wall, means forming an external chamber with the outside of the wall, the external chamber being divided into sub-chambers connected together into zig-zag relation and each sub-chamber being formed in part by a portion of the wall, the waste heated gases being adapted to travel into the manifold against that portion of the inside of the wall corresponding to the portion of the said outside of the wall that forms part of one of the sub-chambers to heat the said portion of the said inside of the wall more than other parts of the manifold, air to be heated being adapted to travel first through one sub-chamber and then through the remainder of the external chamber.

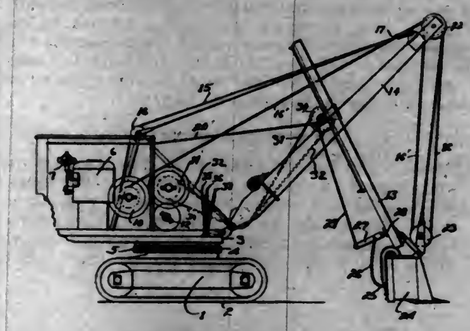
1,753,616. PROCESS OF FINISHING SURFACES WITH CELLULOSE NITRATE LACQUERS. HARRY C. MOUGEY, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed July 29, 1925. Serial No. 46,883. 9 Claims. (Cl. 91—70.)

1. A process of finishing vehicle body or other surfaces comprising applying thereto an adherent undercoating containing drying oil and pigment, drying said undercoating and applying thereto a main color coating of pigmented cellulose nitrate lacquer; the material of the undercoating



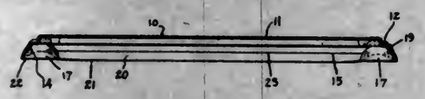
and the thinner of the lacquer having such properties that the undercoating, when properly dried, is only slightly softened by the lacquer.

1,753,617. ELECTROMAGNETIC HYDROCARBON ACCELERATOR. JOSEPH B. NEWTON, Roseville, Calif. Filed Feb. 23, 1927. Serial No. 170,167. 2 Claims. (Cl. 214—135.)



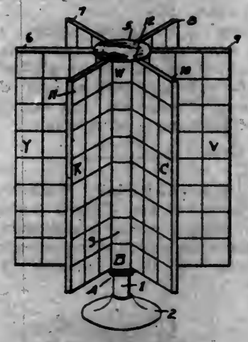
1. In a device of the class described, a power shovel, an engine, and control means for the different operations of said shovel, a slow speed governor for said engine, a series of electrical circuits operated by said control means, adapted to act on said slow speed governor to increase the acceleration of the engine in different degree for each of said control means.

1,753,618. FROST SHIELD. EMIL T. NORBECK, Minneapolis, Minn. Filed Mar. 9, 1928. Serial No. 260,417. 9 Claims. (Cl. 20—40.5.)



1. A frost shield comprising a transparent celluloid member having the marginal portions thereof bent out of the plane of the body of said member to form a frame integral therewith, the edge of said member extending obliquely outwardly from said frame, and a flexible contact strip attached to said oblique edge and extending in the same direction as said edge.

1,753,619. COLOR CHART. JOHN E. NORBERG, San Francisco, Calif. Filed Feb. 1, 1928. Serial No. 251,052. 2 Claims. (Cl. 88—14.)



1. A color chart compris'ng a central core carrying gradations from white to black along its length, and a plurality of leaves secured thereto, each leaf carrying different hue gradations from a position on one edge of the leaf toward the three other edges.

1,753,620. ELECTRIC SWITCH. HARRY E. NORVIEL, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 28, 1928. Serial No. 250,103. 5 Claims. (Cl. 200—155.)



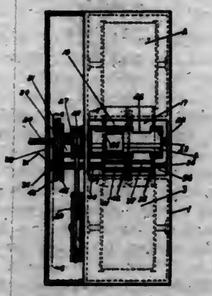
1. An electric switch comprising, in combination, a main supporting plate carrying a bearing, an operating shaft journaled in the bearing and having a handle located on one side of the plate, a non-conducting contact carrier supported by the shaft on the other side of the plate, a bridging conductor carried by the carrier and having contact elements extending along the sides of the carrier, and a sub-assembly structure attached to the plate and comprising a non-conducting plate carrying terminals connected with leaf spring conductors engageable with the contact elements of the bridging conductor.

1,753,621. ELECTRIC SWITCH. HARRY E. NORVIEL and VANCE ECOFF, Madison, Ind., assignors to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Feb. 20, 1928. Serial No. 255,543. 10 Claims. (Cl. 200—11.)



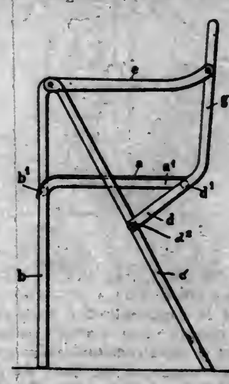
1. An electric switch comprising, in combination, a case having an end wall provided with stationary contacts, a movable contact rotatable within the case adjacent the stationary contacts, a plate rotatable adjacent the other end wall of the case, a spring located between the movable contact and plate and tending to urge the movable contact toward the stationary contacts and the plate against the case wall adjacent thereto, cooperating provisions provided by the plate and adjacent the end wall and cooperating with said spring to yieldingly maintain the plate in various positions of rotation, means drivingly connecting the contact and plate, and means for operating the plate.

1,753,622. PHOTOGRAPHIC CAMERA. FREEMAN H. OWENS, New York, N. Y., assignor to Owens Development Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 8, 1926. Serial No. 140,289. 4 Claims. (Cl. 88—16.6.)



1. A photographic camera comprising a casing, two lenses therein, two strips of film in said casing, one adapted to move past each lens, a tubular shutter mounted for rotation between said lenses and film strips, means on said shutter for alternately uncovering said film strips, and means for alternately moving said strips, said movement taking place only when a strip is obscured from its lens by said shutter, said moving means comprising sprockets engaging said film, and mechanism for intermittently rotating said sprockets, and including a star wheel for each sprocket and means actuated on the rotation of the shutter for alternately engaging and rotating said star wheels.

1,753,623. PIECES OF FURNITURE CAPABLE OF BEING SUPERPOSED. JULIEN HENRI PORCHÉ, Paris, France, assignor to Societe des Meubles Superposables, Societe à Responsabilite Limitee, Gennevilliers, Seine, France. Filed Oct. 31, 1927, Serial No. 230,130, and in France July 2, 1927. 3 Claims. (Cl. 155—2.)



2. Pieces of furniture capable of being superposed and fitting into each other, comprising: a panel adapted to form

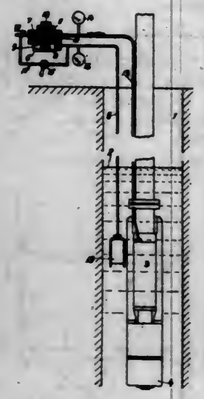
the seat of a chair,—two pairs of legs integral with each other in each pair, and formed at an angle to each other and secured on two of the opposite sides of the seat, the pairs of legs lying in planes parallel to each other,—a back comprising two posts integral with one of the pairs of legs of the chair.

1,753,624. ELECTRIC SWITCH. FRANK H. PRESCOTT, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 28, 1928. Serial No. 250,126. 7 Claims. (Cl. 200—11.)



1. An electric switch comprising a rotatable contact carrier, a detent plate rotatable coaxially with the carrier, driving connections between the plate and carrier and permitting relative axial movement between the plate and carrier, a driving member connected with the carrier and plate through said driving connections between them, a case enclosing the carrier, plate and member, stationary contacts carried by a wall of the case, a movable contact attached to the carrier and engageable with the stationary contacts, means for urging the movable contact against the stationary contacts and for urging the detent plate toward another wall of the case, and cooperating projection-and-recess locating means provided by the case and detent plate.

1,753,625. REGULATOR FOR CONTROLLING FLUID PRESSURE IN SUBMERGED MACHINES. HARRY SAUVEUR, Hanover-Wulfel, Germany. Filed Dec. 20, 1927, Serial No. 241,439, and in Germany Aug. 11, 1927. 3 Claims. (Cl. 50—10.)

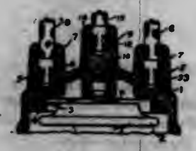


1. A device for controlling the fluid pressure in submerged machines comprising a regulator arranged above the ground and in communication with said machine to supply a fluid thereto; and a vessel submerged adjacent the machine and in fluid communication with said regulator to convey by means of the fluid the pressure of the liquid surrounding the machine directly to the regulator whereby said regulator will maintain a predetermined fluid pressure within the machine.

1,753,626. PROCESS FOR THE MANUFACTURE OF HORN-LIKE MATERIAL. JULIUS SCHLINCK and GEORG MÜNCHMEYER, Hamburg, Germany. Filed Feb. 17, 1926, Serial No. 88,962, and in Germany Feb. 21, 1925. 2 Claims. (Cl. 106—38.)

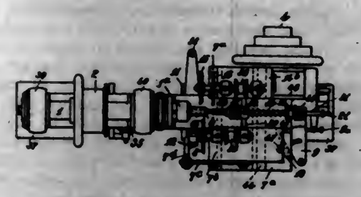
1. The process of preparing horn-like materials from casein which comprises treating the casein mixed with a hardening medium comprising the product of the treatment of paraformaldehyde with an acid selected from the group consisting of sulphuric acid and formic acid for the purpose of hardening said materials.

1,753,627. CABLE TERMINAL. WOLFGANG E. SCHWARZMANN, Longmeadow, and ADOLPH ROSNER, Springfield, Mass., assignors, by mesne assignments, to The Electric Auto-Lite Company, a Corporation of Ohio. Filed July 29, 1921. Serial No. 488,304. 3 Claims. (Cl. 173—269.)



1. A socket fitting plug adapted to be attached to the end of an electric cable, comprising a tubular body portion having an open end adapted to receive the end of the cable, the sides of said body portion being adapted to snugly fit the sides of the cable; a prong integral with said tubular body portion, forming in part the closure for the opposite end thereof and adapted to enter the conducting portion of said cable as said cable is inserted into said body portion; means to reinforce said prong against distortion when said cable is so inserted; and means integral with the sides of said body portion adapted to close in upon said cable to prevent the removal of said cable when such removal is attempted.

1,753,628. MACHINE FOR MAKING SPOOLS OR BOBBINS. ERNST SCHWEIZER, Basel, Switzerland. Filed July 7, 1926, Serial No. 121,020, and in Switzerland July 11, 1925. 4 Claims. (Cl. 144—14.)

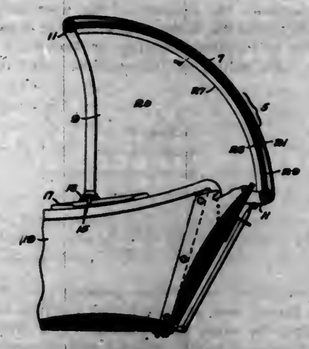


1. A machine for making wooden spools from a rod, having a rotating hollow shaft, means for clamping a rod therein, a rotating drill for drilling said rod, a narrow disc cutter, whereby only a fraction of the surface to be worked upon comes in contact with the cutter, and means for guiding said cutter both obliquely and parallel to the axis of said workpiece.

1,753,629. HOOD. HAROLD F. SHAW, Leominster, Mass., assignor to F. A. Whitney Carriage Company, Leominster, Mass., a Corporation of Massachusetts. Original application filed June 6, 1927, Serial No. 196,934. Divided and this application filed Jan. 6, 1928. Serial No. 244,837. 1 Claim. (Cl. 296—110.)

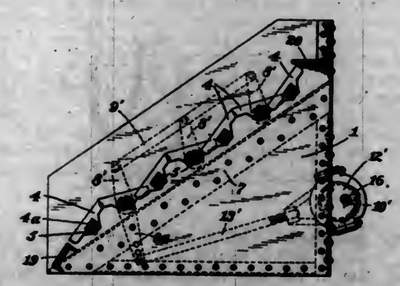
A baby carriage hood having a top and sides shaped from sheet metal as a self-contained unitary shell in the form of a cylindrical sector and rolled over to provide

channels along its edges, upholstery panels for the sides having opposite edge portions received in said channels,



and a panel for the roof overlying the edges of the side panels sprung in position between said edge portions and maintained in said channels by its inherent resiliency.

1,753,630. SCREENING MACHINE. ARTHUR D. VICKERMAN, Pueblo, Colo. Filed Mar. 3, 1928. Serial No. 258,965. 3 Claims. (Cl. 209—396.)



1. A grizzly type screening machine comprising a frame, two sets of rock shafts carried by the frame and disposed in a downwardly inclined plane, said shafts being alternately arranged, a series of rocker bars detachably secured to said shafts centrally of their length to form a screen bed, the bars on adjacent shafts being staggered and intermeshing and being approximately the width of the space between adjacent bars so that the bars on one shaft serve to wipe between the bars on adjacent shafts, rocker-arms secured to the outer ends of the shafts and projecting upwardly therefrom, the arms on alternate shafts being connected by links, the rocker-arms on the two shafts nearest the lower end being provided with downward extensions, connecting rods secured to the outer ends of said extensions, and means for simultaneously oscillating said connecting rods in opposite directions to thereby produce an undulatory motion along the screen bed.

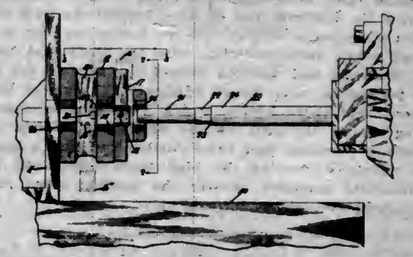
1,753,631. CLOSURE ELEMENT. ROLLO F. WALTERS, Detroit, Mich., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed July 14, 1927. Serial No. 205,741. 1 Claim. (Cl. 220—60.)

A closure button having at its under side an annular series of relatively narrow fingers flat in cross-section to permit bending upon straight lines where they join the closure button, each of said fingers having a relatively abrupt shoulder and a guiding portion extending toward



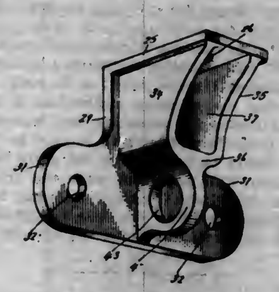
the axis of the closure button at an angle relative to a plane at right angles to the axis of the closure button as and for the purposes illustrated and described.

1,753,632. MACHINE FOR AND METHOD OF FINISHING BUSHINGS. HARRY M. WILLIAMS and CHARLES L. LEE, Dayton, Ohio, assignors to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 22, 1923. Serial No. 640,798. 6 Claims. (Cl. 29—90.)



5. The method of sizing a bushing of porous metallic material to a desired predetermined size, which consists in inserting therethrough an arbor having a diameter equal to the desired inner diameter of the bushing, then compressing the bushing on said arbor by passing the bushing through a die having the desired diameter while holding the bushing in fixed position relative to the arbor whereby burnishing of the inner surface of the bushing during the sizing operation is prevented.

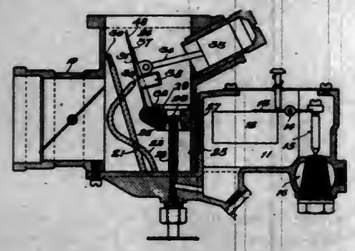
1,753,633. CARLINE BRACKET. THERON H. WILLIAMS, Chicago, Ill., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware. Filed May 31, 1923. Serial No. 642,425. 2 Claims. (Cl. 108—5.7.)



1. A carline bracket comprising, a carline engaging member; a side plate engaging member; a plurality of rigidifying parts for said carline and side plate engaging members; said rigidifying parts converging at their lower ends to provide a pulley supporting member.

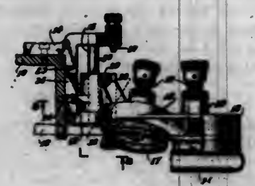
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1,753,634. CARBURETOR. LOUIS C. WOLFE, Altoona, Pa. Filed Jan. 13, 1926. Serial No. 81,069. 3 Claims. (Cl. 261—41.)



1. A multiple jet carburetor having a main air passage, a segment shaped insert arranged in said air passage, a segment shaped insert arranged in said air passage and having a Venturi opening, a float chamber a sump chamber below the float chamber, a manually operated needle valve controlling communication between the float chamber and the sump, a low speed fuel nozzle communicating with said sump and projecting into said Venturi opening, a medium speed nozzle communicating with said sump and having its discharge end directed toward the wall of the main air passage adjacent the air intake opening, a high speed nozzle communicating with the sump and having its discharge end directed toward the axis of the main air passage, a valve hinged adjacent said segment shaped insert, said valve having a free edge portion normally lying against the wall towards which said medium speed nozzle is directed, said valve further carrying a housing for normally covering the high speed nozzle and being notched to normally uncover the medium speed nozzle, and cushioning means for said valve.

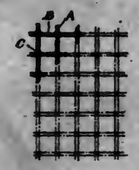
1,753,635. GRINDING DEVICE FOR MEAT-SLICING MACHINES. GEORGE RUE WOOD, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed May 28, 1923. Serial No. 642,008. 13 Claims. (Cl. 51—248.)



1. A grinder device for a slicing machine comprising a grinder assembly for a circular knife having its periphery guarded by a main guard, a supplemental guard carried by said assembly, said assembly including a grinder box with grinder mechanism therein, said box forming a guard for the knife when the grinding mechanism is in grinding position, and means for mounting said assembly to permit it to be laterally shifted with respect to the knife to bring the grinders to one side of the knife and the supplemental guard into alignment with the knife, said assembly when oppositely displaced bringing the grinders and the enclosed guarding box into alignment with the knife and the supplemental guard out of alignment therewith.

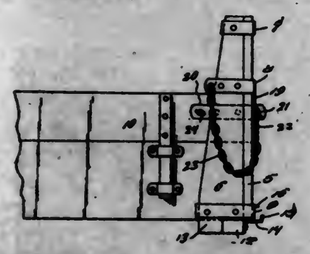
1,753,636. INTERTWISTED NET HAVING SQUARE-SHAPED MESHES. TAKEJIRO YAMAMOTO, Akashi, Hyogo, Japan. Filed Dec. 22, 1928, Serial No. 327,976, and in Japan Dec. 28, 1927. 1 Claim. (Cl. 96—23.)

An intertwisted net comprising, in combination, a series of warp threads and a series of weft threads, all said threads consisting of two strands only, each warp thread intersecting with the weft threads so that the two strands of the warp thread continue in the same direction beyond the points of intersection, and at the points of intersection pass between the strands of the weft threads so as to interlock therewith without knotting or separate splicing, thereby preventing shifting of the warp and weft threads at said points of intersection; said interlocking



being accomplished as follows: passing strand number 1 of a warp thread over strands 3 and 4 of the weft thread, then passing the same warp strand under strands 3 and 2 and lastly over strand 3; passing strand number 2 of the samp warp thread under strand 4, over strand 1, under strand 3, over strand 4 and lastly under strand 4; strand 3 of the weft thread passing under strand 1, as stated, over strand 4, over strands 3 and 1, as stated, and under strand 1, as stated.

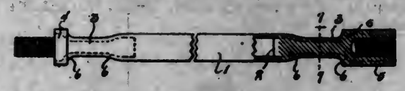
1,753,637. END GATE. CLOYD HAROLD ARNTZEN, Canton, Mo. Filed Mar. 9, 1928. Serial No. 260,506. 1 Claim. (Cl. 296—57.)



The combination with a wagon body having an end gate provided with a bottom and side wings, of a transverse cleat at the rear of the wagon body, tongues extending from the side wings for engaging behind the ends of the cleat when the gate is in raised position, outer, inner and intermediate brace bars embracing and secured to the bottom and side wings of the end gate, depending wear plates integrally formed with the intermediate brace bar and having slots for registering with slots in the bottom of the end gate and adapted to receive holding straps on the body for holding the end gate in place, a pair of rigidly mounted rearwardly projecting lugs carried by the inner bar, and located at longitudinally spaced points, and a pair of complemental right angularly shaped duplicate brackets secured to the rear end of the bottom of the wagon body, the lower edge of said end gate being removably fulcrumed in said brackets, said brackets having their horizontal portions provided with upwardly directed and outwardly curved cam-forming flanges, said lugs being engageable with said flanges and serving to produce a cam action for forcibly binding the lower end of the end gate firmly against the end of the wagon body, when the end gate is swung down, thereby providing a tight joint between the end gate and wagon body.

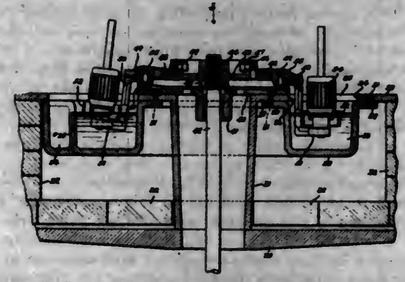
1,753,638. PROCESS OF MAKING COUPLINGS FOR SUCKER RODS AND THE LIKE. FRED W. AXTELL, Fort Worth, Tex. Filed Sept. 26, 1927. Serial No. 221,980. 4 Claims. (Cl. 29—148.)

1. A process of making air and water tight pipe couplings for sucker rods which consists in selecting a pipe of required length, driving rods in the ends of the pipe, heating the pipe ends with the rods therein to welding point, upsetting the ends of the combined pipe and rods



to enlarge the same, reducing a portion of one of the enlarged members and threading to form the male coupling, and boring out the other enlarged member and threading it interiorly to form the female end of the coupling.

1,753,639. SOLDERING MACHINE. OLLIE V. BADGLEY, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 3, 1927. Serial No. 172,479. 8 Claims. (Cl. 113—59.)



1. A device of the character described comprising, in combination, a heating oven, a tank in said oven, for containing molten solder at a certain level, a conveyor adapted to pass over said tank, supporting members attached to the conveyor, each including a depending arm provided with a platform portion substantially parallel with the surface of the solder and apertured to receive the shaft of an armature to hold said armature substantially upright with its commutator adjacent the solder, and means for dipping said members into the solder while maintaining the armature substantially upright.

1,753,640. ARMATURE-CONVEYING APPARATUS. RUSSELL W. BAKER, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed June 29, 1928. Serial No. 289,261. 8 Claims. (Cl. 198—177.)

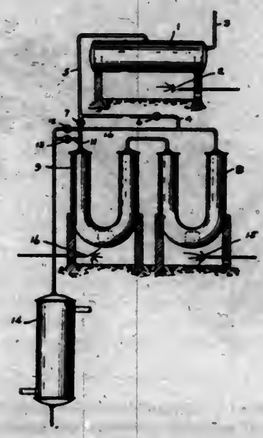


1. Apparatus for conveying dynamo armatures comprising in combination, a travelling support, and means pivotally attached to the support for holding substantially vertically an armature comprising an assembly of shaft, core and windings and having a part for directly receiving one end of the armature shaft.

1,753,641. METHOD OF BREAKING EMULSIONS. JOHN W. BECKMAN, Oakland, Calif. Filed Dec. 21, 1925. Serial No. 76,899. 8 Claims. (Cl. 196—4.)

1. The method of de-emulsifying a water-in-petroleum oil emulsion containing an emulsifying agent which consists of exposing said mixture to the action of living micro organisms adapted to destroy said agent as such.

1,753,642. PROCESS AND MEANS FOR TRANSFORMING ORGANIC ACIDS INTO KETONES. JOHN W. BECKMAN, Oakland, Calif. Filed Feb. 23, 1928. Serial No. 256,468. 2 Claims. (Cl. 260—131.)

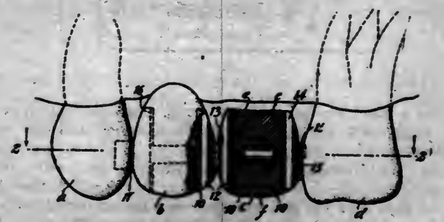


1. The process of transforming organic acids contained in a hydrocarbon mixture into ketones and aldehydes which consists in forcing an intimate contact of said mixture with a mass of pulverulent metal oxide while maintained at a temperature of below 300° C. whereby the said acid is decomposed forming salts of said metal in said mass, then heating said mass to a temperature above 300° C. and decomposing said salts whereby ketones and aldehydes are given off.

1,753,643. METHOD OF PROCESSING CEREAL GRAINS. JOHN W. BECKMAN, Oakland, Calif. Filed Mar. 20, 1929. Serial No. 348,664. 2 Claims. (Cl. 83—28.)

1. The process of treating cereal grains which consists in subjecting the grains to a solution of substantially one-quarter of 1% of sodium peroxide whereby the grains are bleached and the surface fats are extracted and then washing and drying the grains.

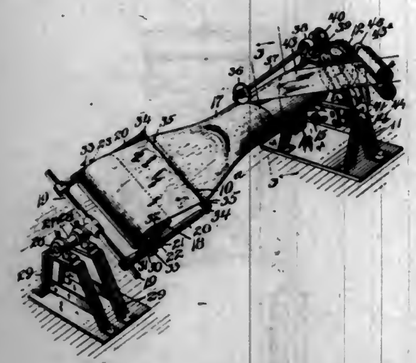
1,753,644. BIPROXIMAL TOOTH AND INTERLOCKING KEY. FRED EARLE BURDEN, Moncton, New Brunswick, Canada. Filed Nov. 28, 1927. Serial No. 236,245. 7 Claims. (Cl. 32—12.)



1. An artificial tooth formed with two sockets one each at the mesial and distal surfaces thereof, two intermediately joined bushings in said sockets presenting longi-

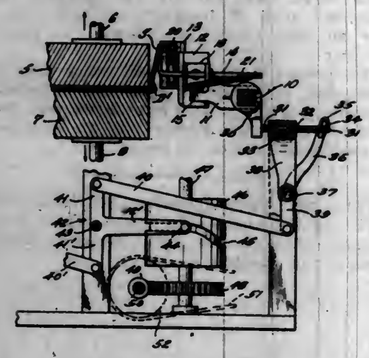
tudinal openings at the outer sides, posts in said bushings, and means on the posts to fasten the same to the crowns of abutment teeth, said sockets consisting of biproximal grooves traversing the mesial and distal surfaces for the entire distance presented by said surfaces between two opposite surfaces.

1,753,645. MACHINE FOR CUTTING BIAS STRIPS. WILLIAM H. CAMFIELD, Newark, N. J., assignor of one-half to Walter Prior, East Orange, N. J., and one-half to Walter Prior, jr., South Orange, N. J. Filed Apr. 18, 1924. Serial No. 707,366. 12 Claims. (Cl. 164—65.)



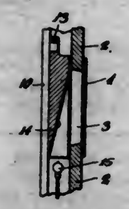
1. A machine for cutting bias strips comprising a rotatable cylindrical mandrel fixed against longitudinal movement and adapted to occupy and rotate with it a sleeve of fabric, a knife to cut said fabric to form a strip, and take-up means for pulling on the strip as it comes from the knife and to cause the sleeve to move longitudinally on the mandrel.

1,753,646. BOX-WRAPPING DEVICE. RAYMOND C. CUNNINGHAM, Seattle, Wash., assignor to Hincher Paper Box Co., Seattle, Wash., a Corporation of Washington. Filed Sept. 12, 1927. Serial No. 219,018. 1 Claim. (Cl. 93—54.)



In a machine for covering boxes, the combination with a form block having a box blank and side and end wall securing flaps mounted thereon, of reciprocatory wing bars, lap pressing plates mounted upon said wing bars and arranged to press projecting portions of the side wall flaps over the end wall flaps and spring regulated rods rendered operable by the travel of said wing bars for pressing and holding the side walls and flaps of the box blank against the form block, prior to and during the operation of the lap pressing plates.

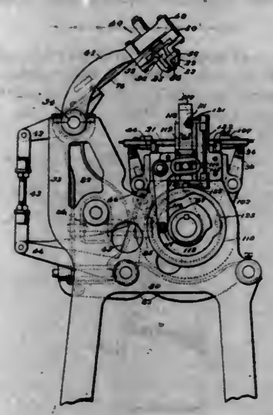
1,753,647. FRAMING-LIGHT MECHANISM. AUGUSTO DINA, Jersey City, N. J., assignor to International Projector Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 12, 1928. Serial No. 325,564. 11 Claims. (Cl. 88—19.)



1. In a motion picture projection machine having a projection aperture therein, the combination of a fire shutter adapted to close said aperture when said machine is not operating, said shutter being provided with a light reflecting surface on its inner side for reflecting light to illuminate said projection aperture, and a source of light projected on to said reflecting surface.

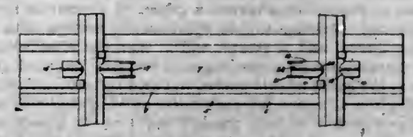
3. In a motion picture projection machine which is provided with a projection aperture, a film positioned in said machine and arranged to pass said aperture, a fire shutter adapted to close said aperture to protect said film when the machine is not running, said shutter being provided with a bevelled surface on the side thereof adjacent the film, and a lighting means associated with said shutter and cooperating with said bevelled surface for illuminating the top and bottom edges of said aperture to permit the framing of said film in said machine.

1,753,648. FOLDING MACHINE. WALTER L. DIXON, Boston, Mass., assignor to Reece Folding Machine Company, Boston, Mass., a Corporation of Maine. Filed Mar. 1, 1926. Serial No. 91,478. 9 Claims. (Cl. 223—15.)



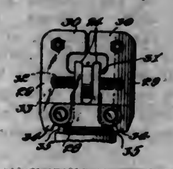
1. A folding machine for producing bellows or box folds or pleats in cloth or other blanks, having in combination a bed, a templet having opposite defining edges for the respective folds, a carrier therefor adapted to move toward and from the bed, means for shifting the templet to retract it longitudinally out of the enclosing folds, an overhanging shaping member spaced above the defining member, infolders adapted to thrust the material over the edges of the templet and thus form reverse folds between the bed and shaping member, and means for squeezing the folds after the retraction of the templet and infolders.

1,753,649. RAILROAD TIE. HENRY G. FILLER and HERBERT C. FILLER, St. Peter, Minn. Filed July 8, 1929. Serial No. 375,760. 1 Claim. (Cl. 238—101.)



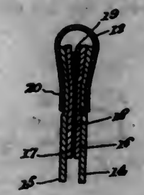
In combination, a tie having an abutment thereon for each track rail, said tie being provided with slots adjacent each abutment, a fastener for each rail, said fastener means comprising a plate having a rail engaging lip at one end, the opposite end of the plate being notched, a lug on the plate for engagement in the slot, and a pivotally mounted key member engageable within said notch for interposition between the plate and the tie and at one end of the corresponding slot, and being adapted for actuation to push the plate against the rail so that the same is centrally clamped between the adjacent abutment and the lip of the said plate, said key being provided with a notch at its free end.

1,753,650. ELECTRIC SWITCH. FRAZER W. GAY, Newark, N. J. Filed Sept. 10, 1927. Serial No. 218,643. 7 Claims. (Cl. 200—87.)



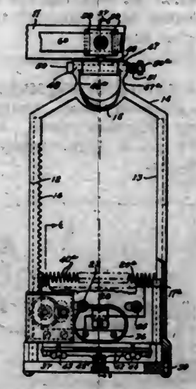
1. In an electric switch structure, in combination, cooperating make and break contact members and an electromagnet in operative relation to said contact members to become energized by current therethrough and also to exert force, and mechanical means for multiplying said force to firmly press said contact members one against the other when said electromagnet is so energized.

1,753,651. WINDSHIELD WIPER. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a Corporation of Nebraska. Filed May 29, 1929. Serial No. 367,055. 2 Claims. (Cl. 15—251.)



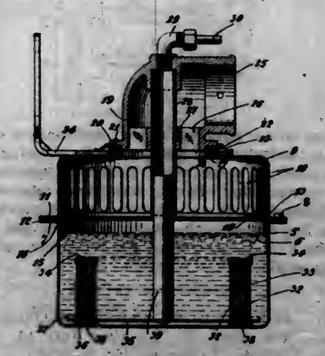
1. In a windshield wiper, a substantially U-shaped flexible and resilient sheath, long resilient outer wiping members carried in said sheath, shorter resilient wiping elements carried in said sheath and inwardly of the longer wiping element, a stiffening metal member having an enlarged inner edge portion disposed between the narrower elements, the outer edges of said elements and the reinforcing member being disposed in stepped relation, and said sheath being pinched together near its outer opened end to compress the resilient strip upon the reinforcing member.

1,753,652. HAIR-CUTTING APPARATUS. GEORGE GIRARD, New York, N. Y. Filed Feb. 25, 1928. Serial No. 256,854. 18 Claims. (Cl. 30—1.)



2. In hair cutting apparatus, in combination, a hair cutting mechanism, guiding means therefor adapted to be applied to the head, means for holding said guiding means in operative relation to the head so that said guiding means is close to the scalp adjacent the lower border portions of the latter and is spaced from the scalp at its upper end, and means responsive to movement of said cutting mechanism along said guiding means for actuating the mechanism.

1,753,653. AIR FILTER. ALFRED M. GOODLOE, Bradford, Pa., assignor, by mesne assignments, to American Air Filter Company, Louisville, Ky., a Corporation of Delaware. Filed Dec. 10, 1926. Serial No. 153,996. 15 Claims. (Cl. 183—52.)



1. In combination with an air conduit having an inlet and an outlet leading to the point of utilization of filtered air; an air filtering medium associated with said conduit and normally isolated from air contact, and means responsive to a suction at the point of utilization to cause the air entering said conduit to flow through said filtering medium.

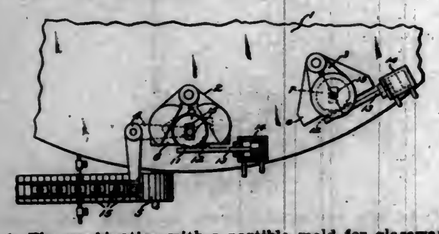
1,753,654. GOLF DRIVING MAT. MAYNARD D. HANSON, Portland, Me. Filed Apr. 26, 1929. Serial No. 358,276. 5 Claims. (Cl. 273—35.)



1. A golf driving mat having a recess formed in its upper surface, a flexible projection normally extending up-

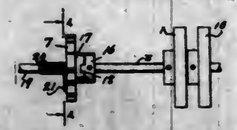
wardly from the surface of the mat, a retaining member for the projection removably positioned in the recess and means carried by said member engageable with the lower edge of the projection for securing the same within the recess, said projection being adapted to entirely enter the recess upon being struck.

1,753,655. GLASS-FABRICATING MECHANISM. EVERETT O. HILLER, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Jan. 3, 1928. Serial No. 244,066. 5 Claims. (Cl. 49—14.)



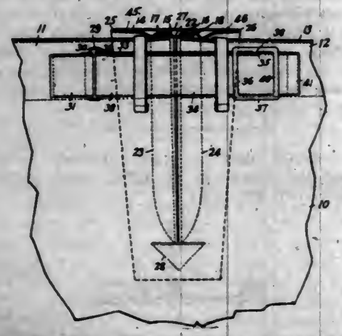
1. The combination with a partible mold for glassware, take-out mechanism and a receiver upon which said take-out mechanism deposits the ware, of means for properly positioning the ware with respect to the mold after it has been opened and before the ware is grasped by the take-out mechanism.

1,753,656. PRINTING TELEGRAPH. GEORGE S. HILTZ, Brooklyn, N. Y., and WILLIAM F. PURCELL, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1928. Serial No. 258,158. 3 Claims. (Cl. 178—39.)



1. In printing telegraphs, the combination of a type-wheel, an intermittently rotated shaft, a spring for rotating said shaft, a scape wheel yieldingly mounted on said shaft, a second shaft having movement relatively to the first mentioned shaft and carrying said typewheel, and a coupling for coupling the scape wheel to the last mentioned shaft, and constructed for relatively rotary movement on one direction of rotation.

1,753,657. ADJUSTABLE GARMENT CLOSURE. ISIDOR KAPLAN, New York, N. Y. Filed July 14, 1926. Serial No. 122,281. 3 Claims. (Cl. 2—237.)



2. In a garment, a pair of adjustable sections constituting the body portion of the garment and separated by a slit passing through and extending part-way of the length of the garment, said sections having straight edges adapted to meet in the most constricted position of the garment and adapted to be spread into angular position about the bottom of the slit as a vertex, a gusset of a separate piece of material, tapering to less width at the bottom than at the top thereof and of greater width, than the greatest possible distance between the edges of the slit, inturned portions at the edges of said gusset and said sections, stitching seaming the adjacent inturned portions of said gusset and sections together to form finished edges on the gusset and the sections at said slit, said gusset comprising a back panel of predetermined size in the constricted positions of the garment and edge portions folded upon said panel and said sections and substantially parallel thereto, a line of stitching terminating at the bottom of said slit, in spaced relation to said inturned portions and substantially parallel to the edge of the slit joining an edge portion of the gusset to the corresponding section, and permanent creases in said gusset at the folds between said panel and gusset edge portions for maintaining said panel and edge portions flat at all times and in approximately either one of two substantially parallel planes.

1,753,658. PROCESS FOR THE PREPARATION OF SULPHUR COMPOUNDS OF PYRIDINE. GERD KOCHENDOERFER, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a Corporation. Filed Nov. 29, 1927, Serial No. 236,593, and in Germany Dec. 3, 1926. 6 Claims. (Cl. 260—42.)

1. A process for the preparation of a pyridyl sulfide comprising reacting a compound containing the group M—S—, wherein M is a monovalent metal, with a derivative of pyridine containing a halogen atom so as to react said metal with said halogen atom to form the metal halide and to attach the sulphur directly to the pyridine nucleus.

1,753,659. ANHYDROUS SOAP GELS AND METHOD OF MAKING SAME. VAMAN R. KOKATNUR, New York, N. Y. Filed May 13, 1926. Serial No. 108,985. 1 Claim. (Cl. 87—5.)

The method of making an anhydrous soap gel which comprises saponifying a glyceride with an anyhdrous alkali in a substantially anhydrous non-hydroxylic organic diluent which is a non-solvent and chemically inert with respect to the soap, and allowing the resulting anhydrous products and the diluent to congeal together.

1,753,660. CLOSURE-RETAINING MEANS FOR CONTAINERS. EDWARD P. LINCH, Philadelphia, Pa. Filed Oct. 15, 1928. Serial No. 312,433. 3 Claims. (Cl. 215—64.)

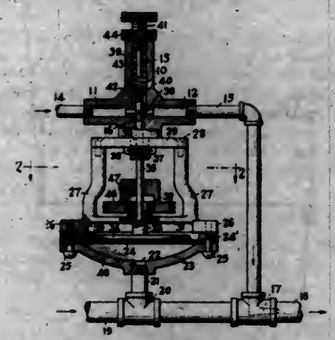


1. A neck wire for retaining means for fastening a closure for containers in closed position comprising a semicircular portion terminating at its opposite ends in coils and having curved quadrantal portions beyond said coils, the opposed ends of said quadrantal portions having outwardly projecting extensions which initially are located in divergent relation with respect to each other, the said extensions, when the ends of said quadrantal portions are moved into proximate relation to each other, being substantially parallel.

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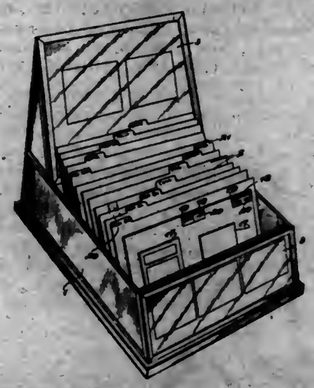
1. As a new product, a liquid water softener containing aluminum hydroxide held in suspension in a water solution.

1,753,662. DIAPHRAGM VALVE. MAX MERKER, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,850. 18 Claims. (Cl. 137—78.)



18. In a diaphragm valve, a valve stem, means for rotating said stem for preventing sticking thereof, said means being ineffective to adjust the stem, and fluid pressure operated means for automatically adjusting said stem longitudinally, in response to the pressure on the valve diaphragm.

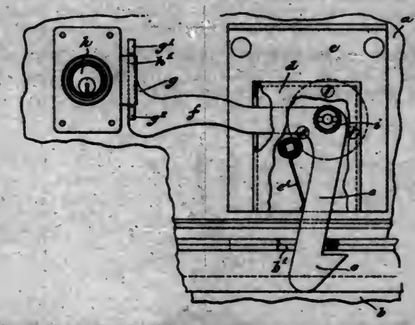
1,753,663. DISPLAY AND MERCHANDISING SYSTEM. ROBERT MILLER, Brooklyn, N. Y. Filed May 14, 1928. Serial No. 277,703. 2 Claims. (Cl. 206—73.)



1. A display cabinet comprising a receptacle, a bottom plate arranged within the receptacle and including a vertical front wall, a bottom wall inclining to the horizontal, and a rear wall inclining to the vertical, and display panels supported directly by the receptacle at a predetermined angular relation to the said front and rear walls of said bottom plate.

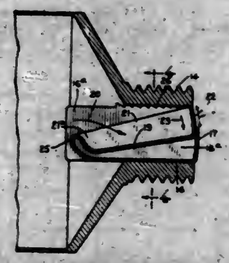
1,753,664. CENTER LOCK FOR COUNTERBALANCED ELEVATOR DOORS. CHARLES W. PEELLE, New York, N. Y., assignor to The Peelle Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 12, 1924. Serial No. 755,445. 3 Claims. (Cl. 70—31.)

1. A center lock for counterbalanced elevator doors embodying therein the combination with a pair of oppositely and vertically movable door sections, of a manually operative latch member pivotally mounted upon the shaft side of one of said sections, an arm carried by, and extending at an angle to, said latch member, a keeper upon said arm having spaced keeper arms projecting at an angle to said arm, and a key controlled lock having a



bolt adapted to pass between said keeper arms to prevent movement of said latch member when it is engaged with its cooperating keeper, or to be withdrawn from between said arms to permit the engagement of said latch member with, or its disengagement from, its co-operating keeper.

1,753,665. COLLAPSIBLE TUBE. WENDEL V. ROOS, New York, N. Y. Filed Nov. 24, 1928. Serial No. 321,679. 8 Claims. (Cl. 221—60.)



1. The combination of a collapsible tube, a unitary closure device disposed within the discharge orifice of said tube, said closure device comprising a relatively fixed element having an outer flange portion disposed adjacent the outer terminal of the discharge orifice, said flange portion extending in one dimension less than the corresponding dimension of the orifice to provide a clearance thereat and a relatively movable element having a body portion normally disposed obliquely to the direction of discharge flow of the medium within the tube, said relatively movable element further having a terminal flange portion normally extending to close said clearance, said body portion being arranged to be displaced upon application of pressure to the medium within the body of the tube and thereby displace its terminal flange portion to provide a discharge opening through said clearance and to return to normal position upon release of such pressure.

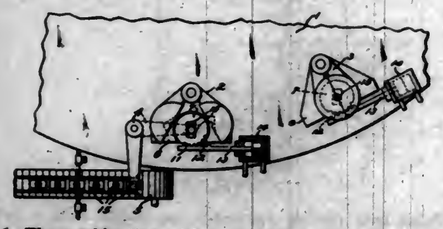
1,753,666. UMBRELLA, PARASOL, AND THE LIKE. AMBROSE RYDER, Carmel, N. Y. Filed Aug. 19, 1926. Serial No. 130,157. 13 Claims. (Cl. 135—20.)



8. In combination in a device of the character described, a plurality of ribs and a stick, a cover connected

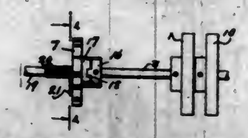
wardly from the surface of the mat, a retaining member for the projection removably positioned in the recess and means carried by said member engageable with the lower edge of the projection for securing the same within the recess, said projection being adapted to entirely enter the recess upon being struck.

1,753,655. GLASS-FABRICATING MECHANISM. EVERETT O. HILLER, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Jan. 3, 1928. Serial No. 244,066. 5 Claims. (Cl. 49—14.)



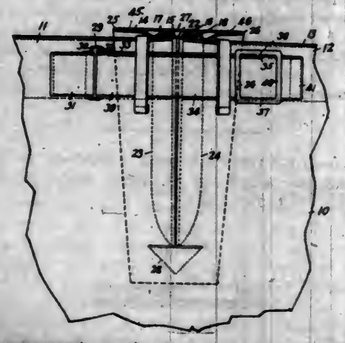
1. The combination with a partible mold for glassware, take-out mechanism and a receiver upon which said take-out mechanism deposits the ware, of means for properly positioning the ware with respect to the mold after it has been opened and before the ware is grasped by the take-out mechanism.

1,753,656. PRINTING TELEGRAPH. GEORGE S. HILTZ, Brooklyn, N. Y., and WILLIAM F. PURCELL, Hoboken, N. J., assignors to Stock Quotation Telegraph Company, New York, N. Y., a Corporation of New York. Filed Mar. 1, 1928. Serial No. 258,158. 3 Claims. (Cl. 178—39.)



1. In printing telegraphs, the combination of a type-wheel, an intermittently rotated shaft, a spring for rotating said shaft, a scape wheel yieldingly mounted on said shaft, a second shaft having movement relatively to the first mentioned shaft and carrying said typewheel, and a coupling for coupling the scape wheel to the last mentioned shaft, and constructed for relatively rotary movement on one direction of rotation.

1,753,657. ADJUSTABLE GARMENT CLOSURE. ISIDOR KAPLAN, New York, N. Y. Filed July 14, 1926. Serial No. 122,281. 3 Claims. (Cl. 2—237.)



2. In a garment, a pair of adjustable sections constituting the body portion of the garment and separated by a slit passing through and extending part-way of the length of the garment, said sections having straight edges adapted to meet in the most constricted position of the garment and adapted to be spread into angular position about the bottom of the slit as a vertex, a gusset of a separate piece of material, tapering to less width at the bottom than at the top thereof and of greater width, than the greatest possible distance between the edges of the slit, inturned portions at the edges of said gusset and said sections, stitching seaming the adjacent inturned portions of said gusset and sections together to form finished edges on the gusset and the sections at said slit, said gusset comprising a back panel of predetermined size in the constricted positions of the garment and edge portions folded upon said panel and said sections and substantially parallel thereto, a line of stitching terminating at the bottom of said slit, in spaced relation to said inturned portions and substantially parallel to the edge of the slit joining an edge portion of the gusset to the corresponding section, and permanent creases in said gusset at the folds between said panel and gusset edge portions for maintaining said panel and edge portions flat at all times and in approximately either one of two substantially parallel planes.

1,753,658. PROCESS FOR THE PREPARATION OF SULPHUR COMPOUNDS OF PYRIDINE. GERD KOCHENDOERFER, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a Corporation. Filed Nov. 29, 1927, Serial No. 236,593, and in Germany Dec. 3, 1926. 6 Claims. (Cl. 260—42.)

1. A process for the preparation of a pyridyl sulfide comprising reacting a compound containing the group M—S—, wherein M is a monovalent metal, with a derivative of pyridine containing a halogen atom so as to react said metal with said halogen atom to form the metal halide and to attach the sulphur directly to the pyridine nucleus.

1,753,659. ANHYDROUS SOAP GELS AND METHOD OF MAKING SAME. VAMAN R. KOKATNUR, New York, N. Y. Filed May 13, 1926. Serial No. 108,985. 1 Claim. (Cl. 87—5.)

The method of making an anhydrous soap gel which comprises saponifying a glyceride with an anhydrous alkali in a substantially anhydrous non-hydroxylic organic diluent which is a non-solvent and chemically inert with respect to the soap, and allowing the resulting anhydrous products and the diluent to congeal together.

1,753,660. CLOSURE-RETAINING MEANS FOR CONTAINERS. EDWARD P. LINCH, Philadelphia, Pa. Filed Oct. 15, 1928. Serial No. 312,433. 3 Claims. (Cl. 215—64.)

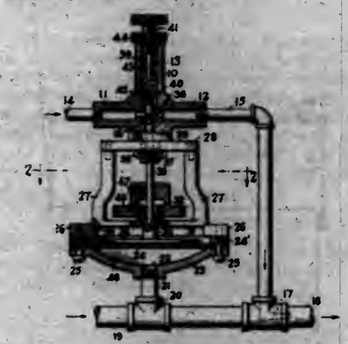


1. A neck wire for retaining means for fastening a closure for containers in closed position comprising a semicircular portion terminating at its opposite ends in coils and having curved quadrantal portions beyond said coils, the opposed ends of said quadrantal portions having outwardly projecting extensions which initially are located in divergent relation with respect to each other, the said extensions, when the ends of said quadrantal portions are moved into proximate relation to each other, being substantially parallel.

1,753,661. WATER SOFTENER AND METHOD OF PREPARING. WALTER N. MCCONKEY, Lima, Ohio. Filed Sept. 24, 1927. Serial No. 221,862. 10 Claims. (Cl. 210—23.)

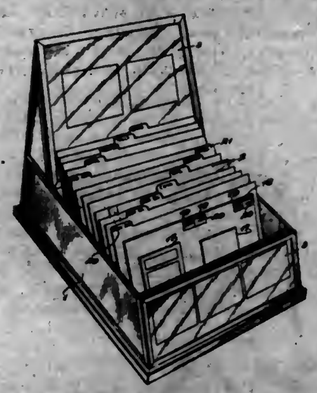
1. As a new product, a liquid water softener containing aluminum hydroxide held in suspension in a water solution.

1,753,662. DIAPHRAGM VALVE. MAX MERKER, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,850. 18 Claims. (Cl. 137—78.)



18. In a diaphragm valve, a valve stem, means for rotating said stem for preventing sticking thereof, said means being ineffective to adjust the stem, and fluid pressure operated means for automatically adjusting said stem longitudinally, in response to the pressure on the valve diaphragm.

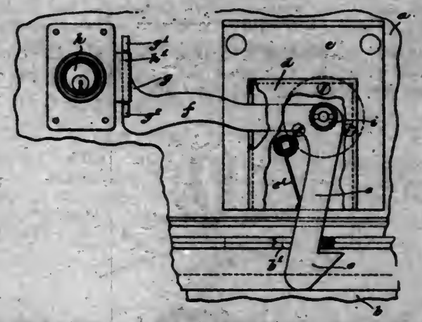
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1. A display cabinet comprising a receptacle, a bottom plate arranged within the receptacle and including a vertical front wall, a bottom wall inclining to the horizontal, and a rear wall inclining to the vertical, and display panels supported directly by the receptacle at a predetermined angular relation to the said front and rear walls of said bottom plate.

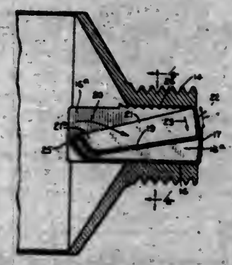
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1. A center lock for counterbalanced elevator doors embodying therein the combination with a pair of oppositely and vertically movable door sections, of a manually operative latch member pivotally mounted upon the shaft side of one of said sections, an arm carried by, and extending at an angle to, said latch member, a keeper upon said arm having spaced keeper arms projecting at an angle to said arm, and a key controlled lock having a



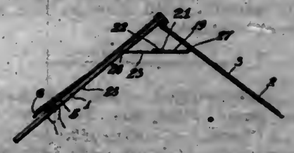
bolt adapted to pass between said keeper arms to prevent movement of said latch member when it is engaged with its cooperating keeper, or to be withdrawn from between said arms to permit the engagement of said latch member with, or its disengagement from, its co-operating keeper.

1,753,665. COLLAPSIBLE TUBE. WENDEL V. ROOS, New York, N. Y. Filed Nov. 24, 1928. Serial No. 321,679. 8 Claims. (Cl. 221—60.)



1. The combination of a collapsible tube, a unitary closure device disposed within the discharge orifice of said tube, said closure device comprising a relatively fixed element having an outer flange portion disposed adjacent the outer terminal of the discharge orifice, said flange portion extending in one dimension less than the corresponding dimension of the orifice to provide a clearance thereat and a relatively movable element having a body portion normally disposed obliquely to the direction of discharge flow of the medium within the tube, said relatively movable element further having a terminal flange portion normally extending to close said clearance, said body portion being arranged to be displaced upon application of pressure to the medium within the body of the tube and thereby displace its terminal flange portion to provide a discharge opening through said clearance and to return to normal position upon release of such pressure.

1,753,666. UMBRELLA, PARASOL, AND THE LIKE. AMBROSE RYDER, Carmel, N. Y. Filed Aug. 19, 1926. Serial No. 130,157. 13 Claims. (Cl. 135—20.)



8. In combination in a device of the character described, a plurality of ribs and a stick, a cover connected

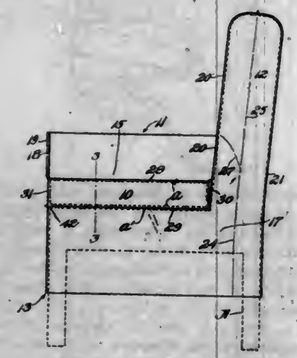
to said ribs and means for connecting said ribs and said cover to the stick, a plurality of sprenders and an operating member having a forked end portion pivotally connected to said stick, said spreaders having a connection with an intermediate part of said operating member.

1,753,667. GARMENT HANGER. JACOB STUART SCHARF, New York, N. Y. Filed Dec. 10, 1926. Serial No. 154,002. 4 Claims. (Cl. 223—64.)



1. In a device of the class described, a garment hanger, comprising, a shoulder portion and a vertical supporting member attached thereto, said vertical member being formed of a substantially narrow plate having its upper portion transversely curved to a size sufficient to embrace the heel of a foot and operate as a shoe horn, said shoulder portion being adapted to function as a handle when the device is used as a shoe horn.

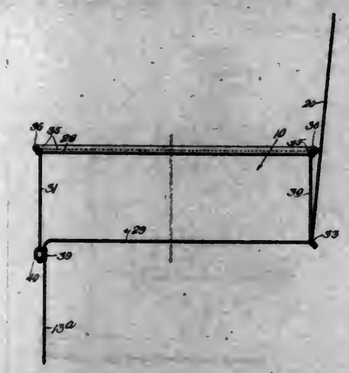
1,753,668. SLIP COVER. ABRAHAM A. SCHIMMEL, Brookline, Mass. Filed Mar. 30, 1929. Serial No. 351,347. 6 Claims. (Cl. 155—182.)



1. A slip cover for furniture made from flexible sheet material and comprising a cushion-inclosing box having a bottom wall; a back compartment, and two arm compartments communicating at their rear ends with said back compartment and extending forwardly from the latter at opposite sides of said cushion-inclosing box, said back compartment having a front wall whose lower end is connected with the back of said cushion box adjacent the bottom wall thereof so that said front wall is held by said box against upward displacement, and said arm compartments having inner side walls connected at their lower ends with the opposite sides of said box adjacent the bottom wall thereof so that they are held by said box against upward displacement.

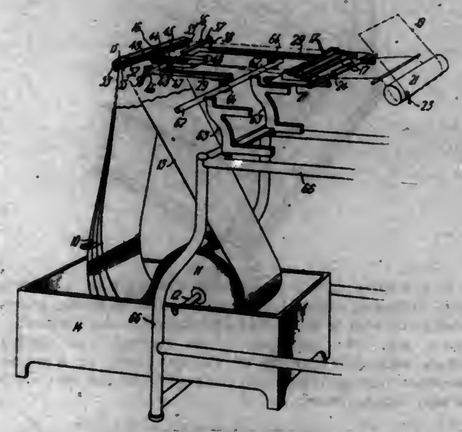
1,753,669. SLIP COVER. ABRAHAM A. SCHIMMEL, Brookline, Mass. Filed May 20, 1929. Serial No. 364,381. 2 Claims. (Cl. 155—182.)

1. A slip cover for furniture made from flexible sheet material and comprising a cushion-inclosing box having a top wall, a bottom wall, two opposite side walls permanently connected with said top and bottom walls, a rear wall permanently connected with said top and bottom walls and also with the rear ends of said side walls, and a front wall permanently connected at its opposite ends with the front ends of said side walls and permanently connected at its top with said top wall; a back compartment, and two arm compartments communicating at their rear ends with said back compartment and extending forwardly from the latter at opposite sides of said cushion-



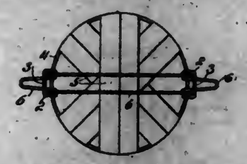
inclosing box, said back compartment having a front wall whose lower end is permanently connected with the back of said cushion box adjacent the bottom wall thereof so that said front wall is held by said box against upward displacement, and said arm compartments having their inner side walls connected at their lower ends with the opposite sides of said box adjacent the bottom wall thereof so that they are held by said box against upward displacement.

1,753,670. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 29, 1926. Serial No. 144,934. 11 Claims. (Cl. 197—126.)



1. In a billing machine provided with a letter-feeding carriage having a platen, the combination with a stationary web-supply-roll, of a web-supporting swingle-bar over which the web warps, said bar pivotally mounted between its ends on said carriage to support said web between said roll and said platen and to distribute the tension of the skewed web upon movement of said carriage, and side gages for the web upon said swingle-bar.

1,753,671. BASKET AND COVER THEREFOR. HAMBLEN A. TAYLOR, San Benito, Tex., assignor to J. O. Prentiss and L. S. Witte. Filed Jan. 30, 1928. Serial No. 250,388. 2 Claims. (Cl. 217—124.)



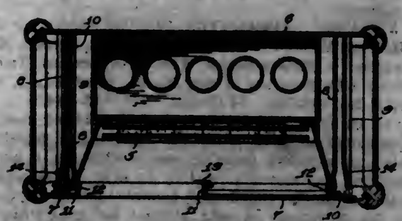
1. A basket cover having a top disposed, when in operative position on a basket, wholly between the bail handles thereof, and a pliable fastener extending clear across, fastened to and projecting outside opposite edges of the top and adapted to have its end portions extended respectively through said handles and to be bent thereover to hold the cover from upward movement, and arranged to engage both inner sides of each of said handles to hold the cover from lateral movement.

1,753,672. SOUND-AMPLIFYING DEVICE. HENRY W. THAYER, Chatham, N. J. Filed Oct. 10, 1928. Serial No. 311,450. 5 Claims. (Cl. 181—31.)



1. In a sound amplifying device comprising a plurality of spaced diaphragms centrally coupled for synchronous vibration and so as to provide resonance space therebetween having sound wave outlets adjacent to the margins of the diaphragms, a plurality of uniformly spaced distributing ribs affixed to the inner face of one of said diaphragms to radiate from its central portion toward but short of the margins thereof so as to vibrate therewith, said ribs being of tapering formation toward their outer extremities, and means connected with said latter diaphragm for transmitting to said diaphragms vibratory motion of the order of sound wave frequencies.

1,753,673. DOOR FOR RADIANT GAS HEATERS. AUGUSTUS F. THOMPSON, Huntington, W. Va. Original application filed May 21, 1928, Serial No. 279,288. Divided and this application filed July 2, 1929. Serial No. 375,412. 2 Claims. (Cl. 312—189.)



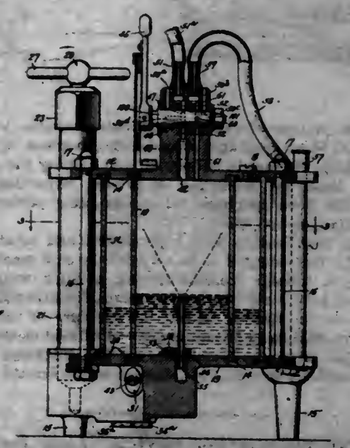
1. In combination with a cabinet having a door-opening in its front wall, a door-guiding-and-supporting channel at each side of said opening extending rearwardly into the cabinet, a door having its bottom edge throughout its length slidably mounted in each of these channels and equal to half the area of the door-opening, each door being provided with a stop-flange at a distance from its rear or inner end adapted to strike against and hinge upon an adjacent vertical flange carried by the cabinet and set back within the door-opening, whereby when the doors are drawn outwardly to the fullest extent and swung inwardly toward each other they will lie substantially flush with the front wall of the cabinet.

1,753,674. BIRD CAGE. ROSS L. TULLIS, New Haven, Conn., assignor to The Andrew B. Hendryx Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 7, 1927. Serial No. 181,818. 9 Claims. (Cl. 119—17.)



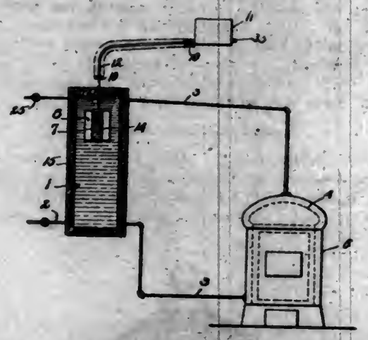
5. A bird cage, comprising a body portion having horizontally disposed rails and vertically disposed spaced apart rods, one of said rails being disposed about the periphery of the cage body at the bottom edge thereof, a cup-shaped bottom for said cage having an upwardly extending flange about the periphery thereof and being adapted to receive the lower edge of said cage body, means to support the lower edge of said cage body spaced above said cage bottom a predetermined amount, and means hinged to said supporting means to lock said cage body upon said supporting means.

1,753,675. APPARATUS AND METHOD FOR TESTING GASES. ROBERT B. WASSON, Cranford, N. J. Filed Oct. 24, 1925. Serial No. 64,650. 34 Claims. (Cl. 23—256.)



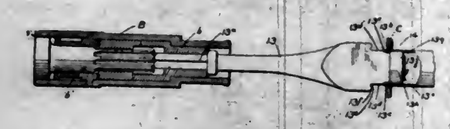
29. The process of determining the percentage of carbon dioxide present in gases, which consists in filling a chamber with a liquid, admitting gas to be tested to the chamber, thus displacing the liquid, injecting into the chamber a caustic solution and determining the resultant pressure of the gas in the chamber.

1,753,676. TEMPERATURE REGULATOR. LYMAN F. WHITNEY, Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc., a Corporation of Delaware. Filed Mar. 10, 1927. Serial No. 174,212. 9 Claims. (Cl. 236—1.)



1. Apparatus for limiting the maximum temperature of a body comprising a chamber in heat-transfer relation to the body, the chamber containing liquid having a boiling point approximately said maximum temperature so as rapidly to evolve vapor when the temperature of said body reaches the maximum temperature, a conduit leading from the chamber to a gas reservoir, the conduit being arranged to dissipate heat throughout a substantial portion of its length, whereby said vapor is condensed and returned by gravity to said chamber, and gas in said reservoir and conduit at a pressure substantially to restrict said vapor to a portion of the conduit throughout a range of vapor pressures, whereby the height to which the vapor rises in said conduit, and therefore the rate of heat dissipation, varies in accordance with the temperature of said body.

1,753,677. METAL-WORKING PROCESS AND APPARATUS. ADOLPH C. ANDRESEN, New York, N. Y., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 7, 1926. Serial No. 127,732. 12 Claims. (Cl. 153—79.)

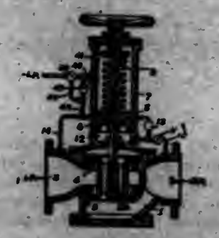


1. The process of securing a tubular member having a thick wall in an apertured head which comprises expanding the member, flaring its outer end, and calking the member to the head by producing a lateral impacting effect within the head aperture, said steps being performed in one continuous operation.

6. The combination with a percussive and rotative machine of a tool adapted to be actuated by said machine for securing a tubular member having a thick wall in an apertured head, said tool having means for expanding that portion of the member within the aperture of said head, means for flaring and beading the end of said member, and means for fixing and maintaining the thickness of the wall of said member at and adjacent to the beaded portion thereof.

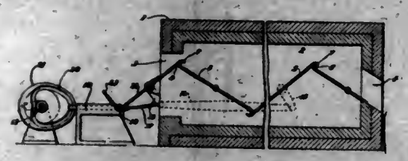
1,753,678. REGULATING DEVICE. ADOLF BARGEBOER, The Hague, Netherlands. Filed Sept. 25, 1926, Serial No. 137,775, and in the Netherlands July 27, 1926. 2 Claims. (Cl. 50—10.)

1. A device for regulating the adjustment of the main valve of pressure-reducing valves by means of a regulating pressure, which comprises a regulating piston, a regulating chamber below the piston, a regulating chamber above the piston, and means for regulating the pressure in each regulating chamber independently of the other, the regulating pressure in one regulating chamber reacting on said



regulating piston corresponding to pressure variations below the predetermined low pressure and the regulating pressure in the other regulating chamber reacting on said regulating piston corresponding to pressures above said predetermined low pressure.

1,753,679. CONVEYER FOR HEAT-TREATING FURNACES. CHARLES A. BARRETT, Buffalo, N. Y. Filed Oct. 26, 1927. Serial No. 228,892. 4 Claims. (Cl. 214—18.)

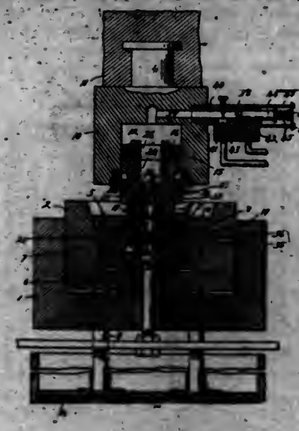


1. In a heat treating furnace having charging and discharge openings at the forward and rear ends respectively, a plurality of plate members mounted in transversely extending adjacent relation in said furnace with the opposite edges of each member curved in opposite directions, said curved edges of each plate member having overlapping interfitting cooperation with the edges of adjacent plate members, means for oscillating said plate members having connection with alternate plates independent of intermediate plates, and adapted to rock the alternate plates in a direction opposite to the intermediate plates during the oscillating movement, for feeding material supported on the plates from the charging to the discharge opening through said furnace, said curved edges causing material on said plates to move only in one direction, and means for providing a relative differential movement of alternate plates with respect to intermediate plates for maintaining said plates in substantially adjacent contacting relation throughout the oscillating movement thereof.

1,753,680. APPARATUS FOR EXPANDING CUP-SHAPED MEMBERS. JOSEPH E. BATZA, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed May 2, 1927. Serial No. 188,372. 14 Claims. (Cl. 113—44.)

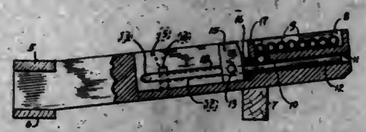
1. In an apparatus for expanding cup-shaped members, the combination with a die for receiving a cup-shaped member, of a holder movable toward said die, a plunger carried by and movable relative to said holder and engageable with the cup-shaped member, means dependent upon the movement of said plunger for controlling the passage of liquid into the cup-shaped member and the movement of said holder relative to said plunger, said

holder operating to force the liquid into the cup-shaped member to expand the same against said die, and means



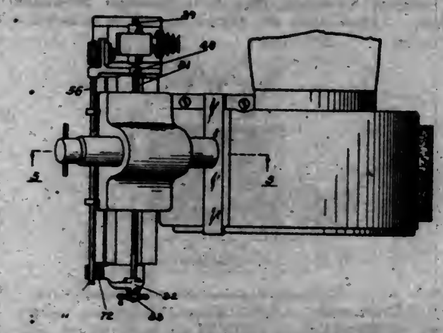
operable when a predetermined pressure of the liquid exerted upon the cup-shaped member has been reached to automatically relieve this pressure.

1,753,681. TOY FIGHTING PLANE. CLAUDE S. BURNS, Salt Lake City, Utah. Filed Mar. 26, 1928. Serial No. 264,680. 6 Claims. (Cl. 124—14.)



1. In combination, a member simulating the fuselage of an airplane, a guide passage for projectiles therein, the said passage opening at the anterior part thereof, means to propel projectiles through the said passage and an operator's seat simulating the elevator planes of an airplane.

1,753,682. TRUING MECHANISM. GEORGE W. BINNS, Cincinnati, Ohio, assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 7, 1926. Serial No. 100,442. 6 Claims. (Cl. 125—11.)



2. Truing mechanism for purpose described, including a support, a truing tool reciprocable on the support, electrically operated means for shifting the tool on the support, a control switch therefor, means movable with the tool for automatic operation of the control switch, and additional means for manually operating said control switch.

1,753,683. WIRE-SCREEN FRAME AND METHOD OF MAKING THE SAME. ROBERT E. BLACKBURN, Los Angeles, Calif. Filed Sept. 9, 1926. Serial No. 134,419. 6 Claims. (Cl. 140—109.)



1. A screen frame comprising metal stiles and rails, each of said stiles formed with an outwardly opening hollow bead and a flat flange extending edgewise from said bead, said flange and bead having an internal strain tending to bow the stiles edgewise from each other, said stiles being welded to rails having internal beads and edgewise outwardly extending flanges to resist the internal strain of the stiles; and a screen wire web strained on the beads of said stiles and rails; the tension of said web being resisted by the strain of the stiles.

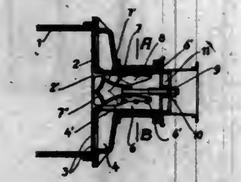
1,753,684. TWO-WAY VALVE. LEON BLOCH, Cleveland, Ohio, assignor to The Republic Brass Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1926. Serial No. 93,910. 3 Claims. (Cl. 251—107.)



1. In a device of the kind described, a casing having a pair of inlet openings and a pair of outlet openings and a cylindrical portion having an opening in the lower end thereof, said opening being surrounded by an annular abutment, a hollow cylindrical valve arranged in said cylindrical portion and having an opening in the bottom thereof and also an opening in the side thereof, the end of said cylindrical valve being shaped to fit upon the abutment, a stem for operating said cylindrical valve, said valve having a screw thread engagement with the casing and whereby said valve can be rotated and moved longitudinally to bring the opening in the side of the valve into or out of register with either of the outlet open-

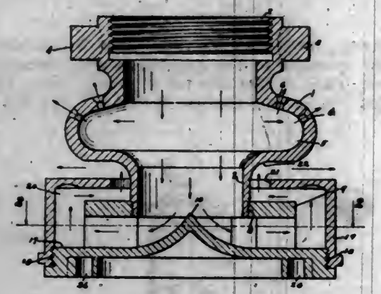
ings in the casing, the longitudinal axes of the said inlet and outlet openings lying in substantially the same plane.

1,753,685. DISCHARGE MEANS FOR TUBE OR BALL MILLS. PAUL BODENSTEIN, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed June 18, 1928, Serial No. 286,182, and in Germany June 27, 1927. 11 Claims. (Cl. 83—9.)



1. In a device for the wet grinding of material, a grinding drum coaxially arranged with a discharge chamber and a hollow trunnion, said drum and said chamber having a common perforated wall, and adjustable means within said discharge chamber for returning any desired portion of material from the chamber to the drum.

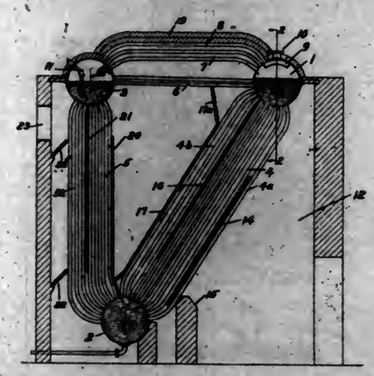
1,753,686. BASEMENT CIRCULATOR. CHARLES A. BORGESON, San Francisco, Calif., assignor of twenty-four and one-half per cent to George W. Mitchell and twenty-four and one-half per cent to Alva J. Lindersmith, San Francisco, Calif. Filed Sept. 26, 1927. Serial No. 222,169. 4 Claims. (Cl. 299—114.)



1. A basement circulator comprising a casing and housing having an annular unobstructed water outlet opening formed by them, means disposed within said housing for whirling the water, said casing having an outwardly-extending curved portion overlying the water outlet for directing the water outwardly, and a flat horizontal portion extending from the curved portion for projecting the water in an apron-like spray transversely to the axis of the circulator.

1,753,687. BOILER. GEORGE Y. BONUS, Chicago, Ill., assignor to Erie City Iron Works, Erie, Pa., a Corporation of Pennsylvania. Filed June 15, 1925. Serial No. 37,126. 6 Claims. (Cl. 122—302.)

1. In a boiler, the combination of a front drum; a rear drum, said drums being in the plane of the water level; a lower drum; a front bank of tubes connecting the lower and front drum; a rear bank of tubes leading to the rear drum in circuit between the lower drum and the rear drum; an upper bank of water tubes between the front and rear drums, said drums and banks of tubes forming an unobstructed ring path from the lower drum to the front drum, from the front drum to the rear drum and from the rear drum to the lower drum forming the main circuit for the water; a furnace; and baffles comprising a plurality of baffles operating on the front bank of tubes controlling the application of heat to the tubes com-



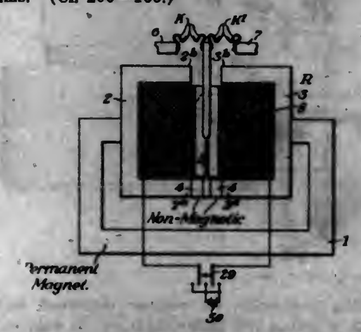
pelling an upflow of water in and throughout the front bank of tubes, a rearward flow of water in and throughout the upper bank of water tubes, and a downward flow of water in and throughout the rear bank of tubes.

1,753,688. TIRE MENDER. JOHN M. BOSCARDIN, Canaan, Conn. Filed Aug. 2, 1928. Serial No. 297,051. 2 Claims. (Cl. 152—26.)



1. A tire mender comprising a base plate, a second plate secured to said base plate, said second plate having teeth angularly disposed to said plate, a cover plate adjacent said second plate, said cover plate having a flange extending around its edges and overlapping said second plate, securing means passing through all the mentioned plates, for drawing the teeth on said second plate within the flange on said cover plate.

1,753,689. ELECTRICAL RELAY. PAUL N. BOSSART, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1928. Serial No. 322,242. 7 Claims. (Cl. 200—166.)



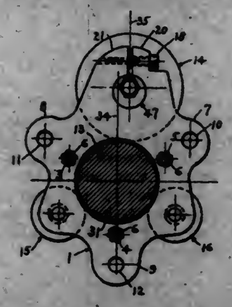
1. In a relay having a fixed member and an armature biased to a normal position but movable at times toward said member, a contact mechanism comprising two segments having cylindrical engaging surfaces, means including a spring for attaching one segment to said armature,

means including a spring for attaching the other segment to said fixed member, said springs being constructed in such manner that when the armature approaches said fixed member said segments roll upon each other in opposition to forces exerted by said springs upon said segments through substantially constant moment arms, and co-operating contacts carried by said two segments, respectively.

1,753,690. PROCESS OF MAKING WATERPROOF PAPER. GEORGE ARTHUR BROWN, Salem, Mass., assignor to Bennett, Incorporated, Salem, Mass., a Corporation of Massachusetts. Filed Oct. 23, 1926. Serial No. 143,801. 8 Claims. (Cl. 92—21.)

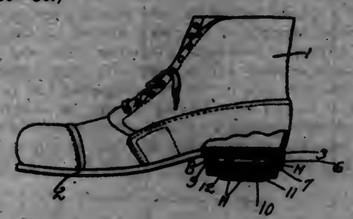
1. A process which comprises disintegrating a paper furnish comprising waste wax paper, dispersing the wax constituent thereof, fixing the dispersed material thereon by a coagulum, and running off on a paper machine.

1,753,691. ROLLER BEARING. WILLIAM D. BURNS, Amenia, N. Y. Filed June 30, 1927. Serial No. 202,649. 2 Claims. (Cl. 308—203.)



1. In a roller bearing, the combination of two end frames, slidable over a shaft, each provided with a holding means, said frames split at the upper portion and having means holding two fixed guide rollers comprised of a tubular sleeve with a plurality of rollers therein between the said sleeve and a fixed shaft and one eccentrically adjustable load carrying roller offset from the vertical centerline of said bearing, said adjustable roller for operating with said split portion provided with a locking means all of which rollers being in contact with said shaft and in spaced relation to each other and the said shaft.

1,753,692. HEEL. ANDREW W. CARLSON, Spokane, Wash. Filed Mar. 20, 1928. Serial No. 263,072. 1 Claim. (Cl. 36—36.)



The combination with the heel portion of a shoe, of a holder comprising a nailing flange having nail holes and nails for permanently securing the holder to the heel portion of the shoe, an integral retaining flange for the holder having a rigid prong and a rubber heel engaged by said prong, a plurality of downwardly projecting flexible tongues struck from the retaining flange, and prongs on the lower free ends of said tongues engaging the rubber heel.

1,753,693. FOOD STRAINER. RUSSELL H. CARPENTER, Madison, Wis. Filed Mar. 30, 1927. Serial No. 179,590. 5 Claims. (Cl. 146—175.)



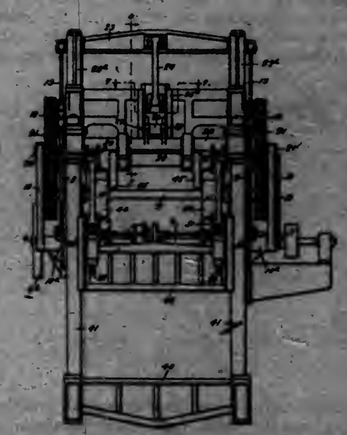
1. A food strainer comprising a sieve member; and a rotatable blade co-operating therewith, said blade being arranged at an acute wedging angle to said sieve with its rear edge contacting with the sieve on a rearwardly receding curve.

1,753,694. LEATHER-FINISHING COMPOUND. OLIVER F. W. CROMWELL, Ridgway, Pa. Filed Nov. 13, 1928. Serial No. 319,193. 1 Claim. (Cl. 149—6.)

A leather finishing compound consisting of a mixture of the following ingredients in the following approximate proportions:

	Parts
Crude oil	2
Sweet oil	2
Cod liver oil	2
Glycerine	1

1,753,695. DRAWING PRESS. JOHN E. DOBSON, Cleveland, Ohio, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 25, 1927. Serial No. 208,182. 14 Claims. (Cl. 113—88.)



1. In a machine of the character described, the combination of a crank shaft, a reciprocating blank holder, a plunger working through the blank holder and operatively connected to the shaft, a sliding cross beam, and op-

erating connections between the shaft and the holder to reciprocate the latter, said connections including toggle means arranged to cause a dwell of the blank holder during the entire period of operation of the plunger on the blank, said toggle means including bell cranks the respective arms of which are operatively connected to the cross beam and to the crank shaft.

1,753,696. SLIDE FASTENER WITH ATTACHED RESILIENT SOCKET. PAUL E. FENTON, Thomaston, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 13, 1929. Serial No. 346,688. 1 Claim. (Cl. 24—77.)



A slide fastener with attached socket, comprising a plate slotted transversely at opposite ends and having an intermediate cross bar, and a resilient snap fastener socket member having a barrel open at both ends, one open end being flanged and provided with an inwardly extending bead, and a complemental stud member having a contracted neck which is engaged by the bead to effect a firm connection of the socket member and stud and the other open end of the socket member being upset and clinched upon the top of the cross bar, said flanged end being slotted or slitted transversely, the slots or slits extending partway into the barrel.

1,753,697. REFLECTING AND SCANNING APPARATUS. DELAMERE B. GARDNER, Los Angeles, Calif. Filed Sept. 17, 1928. Serial No. 306,338. 7 Claims. (Cl. 178—6.)



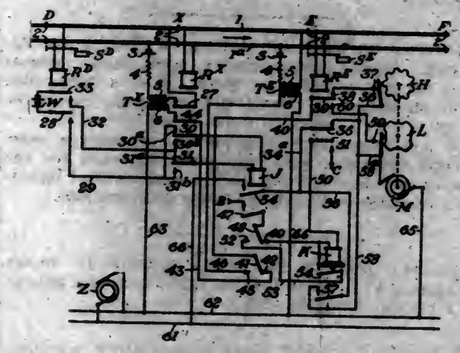
1. A reflecting and scanning apparatus including a plurality of rectangular units arranged side by side and secured together so as to form a helix, a reflector edge to each of said units, means for preventing the other edges and ends of said units from reflecting light, and other means for rotating said units for the purpose specified.

1,753,698. INSTRUMENT FOR DRAFTING IRREGULAR CURVES. ANTON GASPARICH, Oakland, Calif. Filed Nov. 11, 1927. Serial No. 232,677. 3 Claims. (Cl. 33—177.)



1. An instrument of the class described, comprising a plurality of parallel guide rods, bars adjustable on the rods, blocks rotatably connected with the bars, and having bores therein, heads pivotally mounted in the bores and having tubes fitted therein, a flexible rule, rods for supporting the rule, and means for adjustably connecting the supporting rods in the tubes.

1,753,699. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 1, 1927. Serial No. 171,767. 11 Claims. (Cl. 246—34.)



1. In combination, a forward and a rear section of railway track, a track relay for each of said sections, a source of train controlling current for the rear section, means for connecting the source to the rear section when the track relay of the forward section is energized and the track relay of the rear section is de-energized, a relay, and means controlled by said relay for connecting said source to the rear section when the track relays of the forward and rear sections, respectively, are de-energized in succession.

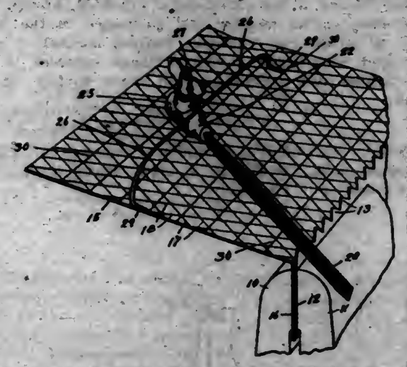
1,753,700. HANDLE STRUCTURE. GEORGE GRAFF, HOWARD B. HASKINS, and GEORGE E. GUNTHER, Toledo, Ohio, assignors, by mesne assignments, to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 21, 1927, Serial No. 170,037. Renewed Sept. 16, 1929. 7 Claims. (Cl. 74—33.)



1. In a handle structure, the combination of a sheet metal body member of the plan outline of the finished handle having a forwardly extending boss and a sheet metal shell member fitting over said body member and having the rear face of its front engaging and positioned by said boss and also having means for securing said body and shell members to each other including a flange at the rear end of said shell member engaging the rear face of said body member.

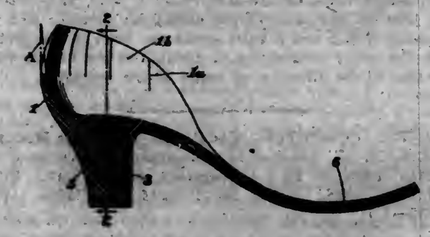
1,753,701. SAW-FILING GUIDE. CHARLES N. GRANT, Haverhill, Mass. Filed June 8, 1927. Serial No. 196,875. 2 Claims. (Cl. 76—36.)

1. A guiding device for a file, adapted for use in connection with a saw holding clamp and a flat surfaced table having indicating means extending in directions corresponding to the bevel to be formed on the saw teeth, and comprising a holder adapted to be mounted on the tip end of the file and having a pair of yieldable arms mounted thereon and arranged to extend oppositely in angular relation to the file, said arms having feet at their ends arranged for sliding engagement with the table in directions parallel to the indicating means thereof, and being adapted



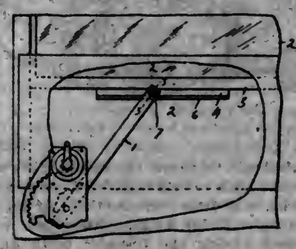
to yield to permit the file to be pressed downward between the teeth while held in approximate parallelism with the table.

1,753,702. ARTICLE OF SHOE MANUFACTURE AND METHOD OF MAKING THE SAME. RICHARD T. GRIFFITHS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 12, 1928. Serial No. 305,440. 8 Claims. (Cl. 36—1.)



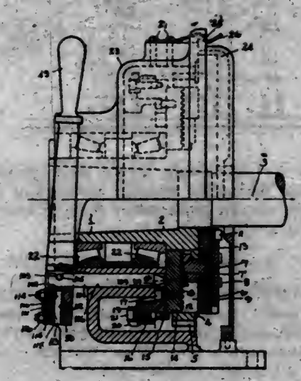
1. As an article of shoe manufacture, a one-piece body comprising heel, sole, and counter portions, said counter being provided with substantially vertically disposed cuts in its upper portion, and a binding strip along the upper edge of the counter.

1,753,703. RETAINER FOR WINDOW REGULATORS. HOWARD B. HASKINS, Toledo, Ohio, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,747. 8 Claims. (Cl. 268—126.)



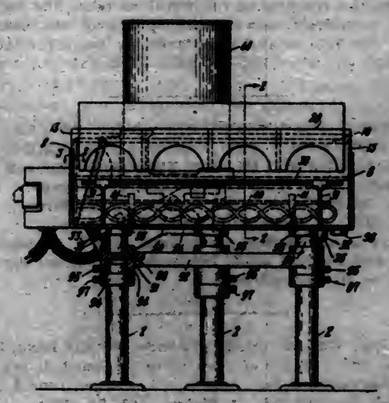
1. A device for operatively connecting a window to a window regulator lifter element, including a pin secured to the lifter element, a retaining member secured to and cooperating with the window to form a guide way for said pin and to normally hold said pin from longitudinal disengagement from the guide way, and a spiral spring for yieldably holding said pin from longitudinal movement relative to the guide way.

1,753,704. MACHINE FOR CUTTING OFF PIPES AND THE LIKE. RALPH E. HYDE, Cleveland, and DANIEL SCHAPPI, Lakewood, Ohio, assignors to The Oster Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 26, 1927. Serial No. 235,881. 17 Claims. (Cl. 164—60.)



1. A cut-off tool comprising a cutter, means for causing rotation between said cutter and a piece of work, means for advancing said cutter toward the axis about which it rotates, means for retracting said cutter, and automatic means for actuating said retracting means after a predetermined advance without reversing the direction of rotation between said cutter and such piece.

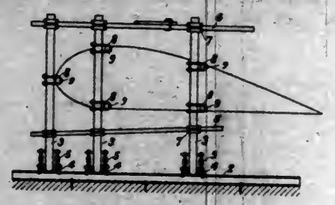
1,753,705. SHOE HEATER. MELVIN OSCAR JENNINGS, Lexington, Mass., assignor to Harry H. Beckwith, Brookline, Mass. Original application filed Nov. 12, 1923, Serial No. 674,314. Divided and this application filed July 14, 1928. Serial No. 292,732. 4 Claims. (Cl. 12—1.)



1. A shoe heater having a base comprising an open topped receptacle, one side of said receptacle being laterally extended outwardly to form a shelf, a removable cover for said receptacle constructed to rest on the upper edge of the opposite sides of said receptacle and extending in spaced relation over said shelf to define a vapor passage from said receptacle into which the end of a shoe may be placed, and a heater beneath said shelf.

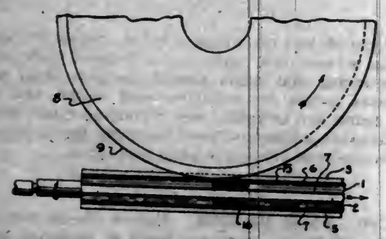
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1,753,706. UNIT FOR ASSEMBLING LATTICE WORK. HUGO JUNKERS, Dessau, Germany. Filed May 28, 1929, Serial No. 366,633, and in Germany June 8, 1928. 6 Claims. (Cl. 144—288.)



1. A unit for assembling lattice work comprising an erecting stage, means for securing members of said work to said stage, and an independent templet adapted to be fitted to said members.

1,753,707. PROCESS OF GRINDING TOOTHED ARTICLES. FRED J. LAMBORN, Detroit, Mich., assignor, by mesne assignments, to Chrysler Corporation, a Corporation of Delaware. Filed Mar. 7, 1923. Serial No. 623,328. 6 Claims. (Cl. 51—278.)



1. The process of grinding splined shafts which comprises positively rotating a splined shaft with its valley portion in contact with the helically formed peripheral grinding face of a rotating grinding wheel arranged with its axis transverse to the axis of the shaft, and in timed relation to the rotation of the wheel to cause the helix to enter succesively between the splines of the shaft to grind the valleys and simultaneously moving relatively the shaft and wheel longitudinally of the axis of the shaft.

1,753,708. SENSITIZED ELEMENT, PROCESS OF MAKING SAME, AND PROCESS FOR PRODUCING PHOTOGRAPHIC IMAGES THEREON. EDUARD EHRHARDT ERICH LEHMANN, Ellenburg, Germany. Filed Apr. 26, 1927, Serial No. 186,832, and in Germany Apr. 27, 1926. 3 Claims. (Cl. 95—6.)

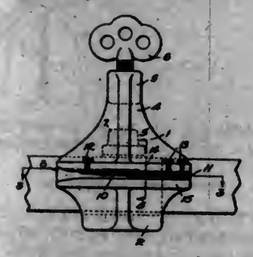
1. As a new article of manufacture, a photographic layer comprising a diazo compound of p-amino diphenyl amine or its derivatives.

1,753,709. CRANK SHAFT. JAMES THOMAS LONG, Bogalusa, La., assignor of twenty-five and one-half per cent to Bascom D. Talley, Bogalusa, La. Filed June 4, 1928. Serial No. 282,611. 1 Claim. (Cl. 74—38.)



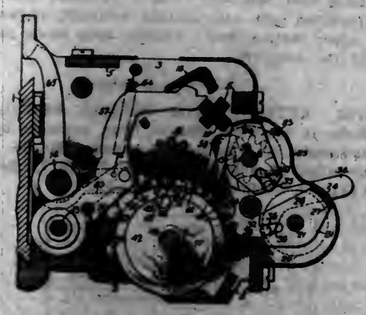
A crank shaft, the outer surfaces of the bearing portions of the cranks thereof being cut away throughout their entire lengths, removable bearing members, each of the removable bearing members having a flange disposed at one end thereof, each removable bearing member having an opening, a threaded member extended through each removable bearing member and positioned in the crank shaft to secure the removable bearing member in position, and each crank having a flange adjacent to one end thereof and formed on the inner surface of the crank.

1,753,710. ENVELOPE OPENER. CHARLES A. MAYER, Boston, Mass. Filed June 8, 1928. Serial No. 283,893. 6 Claims. (Cl. 120—35.)



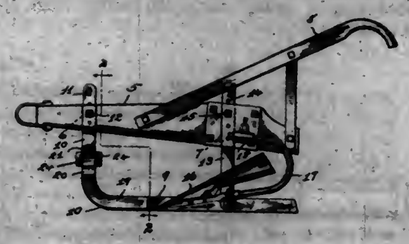
1. An envelope opener comprising a body, knife carrying jaws on one face thereof having an envelope end depressing spring and a knife above the level of the spring end, the latter terminating in advance of the former with relation to the direction of travel of the envelope.

1,753,711. COMPUTING MACHINE. LEE STARR MCCORN, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 6, 1928. Serial No. 244,914. 6 Claims. (Cl. 235—1.)



2. In an algebraic totalizer, the combination with register gear wheels; dials for showing both positive and negative totals and a shutter construction; of an operating wheel at the right of the units register gear wheel, said operating wheel having the transfer tooth and locking surface of a Geneva transfer train; a Geneva pinion constituting another part of said Geneva train and acting to transfer movement from said operating wheel to said units wheel; a hand-operated lever in the plane of said operating wheel and geared thereto to turn said operating wheel in one direction for a negative total and in the opposite direction for a positive total; and means whereby said handle operates said shutter construction.

1,753,712. GUIDE FOR VINE CUTTERS. GEORGE LEE MCCREADY, Parksley, Va. Filed Feb. 24, 1928. Serial No. 256,558. 3 Claims. (Cl. 55—64.)



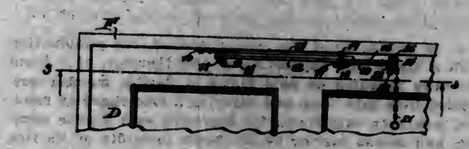
1. The combination with a vine cutter having a runner-bar to travel between the rows, of a guide-bar having a convex end to seat against the side of the runner-bar and means for clamping the convex end of the guide-bar at the side of the runner-bar.

1,753,713. WINDSHIELD WIPER. HAROLD A. MCGOWAN, Davenport, Wash. Filed Mar. 11, 1929. Serial No. 345,999. 1 Claim. (Cl. 15—255.)



The combination in a windshield wiper with a U-shaped holder and spaced wiping sheets therein having free working edges, of a casing between the sheets and an electric heating element in the casing, said element having bent ends projecting beyond the casing, a loop strap on one side of the holder adjacent each end and a complementary slot for each strap at the other side of the holder for receiving the bent ends as described, and one end of the element being grounded while the other end is insulated from the holder.

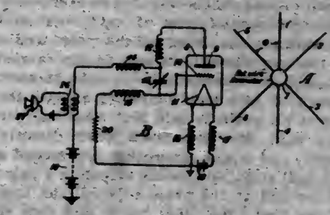
1,753,714. LATCH. EWALD MEININGHAUS, Lancaster, N. Y. Filed Jan. 25, 1929. Serial No. 335,038. 11 Claims. (Cl. 292—263.)



1. A latch for two relatively movable members, comprising an arm pivotally connected to one of said members, a second arm pivotally connected to the other member and said first arm, a catch bar movably mounted on one of said arms and spring means yieldingly holding said catch bar against the arm on which it is mounted, said catch bar being provided with a catch projection arranged in the path of the other arm and adapted to catch and hold said last named arm in fixed relation to the first arm.

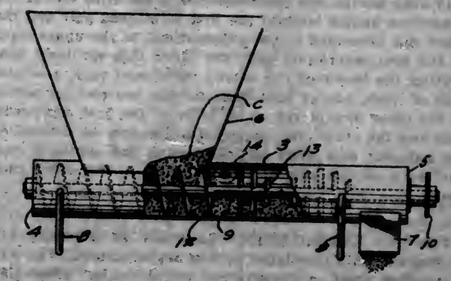
1,753,715. SHORT-WAVE RADIO SIGNALING SYSTEM. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 16, 1925. Serial No. 23,639. 3 Claims. (Cl. 250—11.)

1. In a short wave radio signaling system, the combination with a source of ultra-high frequency signaling currents of a radiating system comprising a plurality of rods disconnected from the earth and in close proximity to the said source, each rod being tuned to the frequency



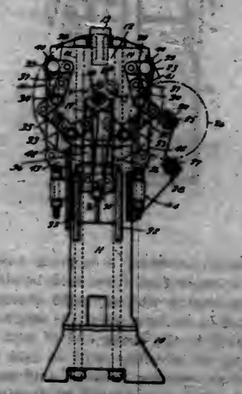
of the currents from the said source, and all of the said rods lying in the same plane and being spaced apart by the same angular distance.

1,753,716. MIXER FOR CEMENT. JACK M. OWEN, Long Beach, Calif. Filed Apr. 25, 1928. Serial No. 272,748. 4 Claims. (Cl. 83—73.)



1. A mixer for cement comprising a barrel, screw means for feeding the cement through a portion of the length of the barrel in a column occupying the full bore of the barrel, means for directing a stream of water across the said bore substantially at the end of the feeding means to cause the water to wash cement from a point adjacent the end of the screw means and to mix with the cement as the latter leaves the screw means, and means for mixing the cement and water and feeding it through the remainder of the barrel to a discharge opening in the latter.

1,753,717. DRAWING PRESS. ROBERT J. PARDEE, Cleveland Heights, Ohio, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 8, 1928. Serial No. 283,920. 3 Claims. (Cl. 113—38.)



1. In a press of the kind described, the combination with a frame, a blank holder and a punch, of a crank

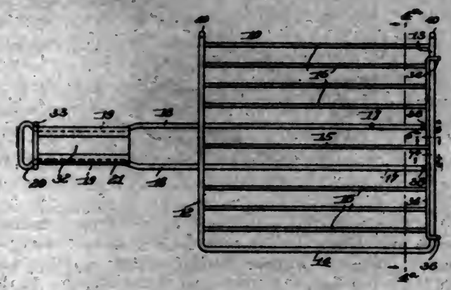
shaft carried by said frame, and to which said punch is operatively connected, a slide reciprocally mounted on an end of the frame and operatively connected with the crank shaft, a pair of rock shafts mounted on said frame adjacent the upper end thereof, one of said rock shafts being mounted adjacent the front of the press and the other adjacent the rear thereof, an arm fixedly carried by each of said rock shafts intermediate its ends, another arm carried by each of said rock shafts at an end thereof and extending at an angle to said first mentioned arms, links connecting said first mentioned arms directly to said blank holder, and means connecting said second mentioned arms with said slide, said means including a pair of angled levers on an end of the press adjacent the front thereof mounted one above the other below said rock shafts and above said slide, a second pair of levers similarly mounted adjacent the rear of said press, a pair of connecting rods, one end of each being connected to said slide, the opposite end of one connecting rod being connected to one end of the lowermost lever of the first mentioned pair of angled levers, and the other end of the other connecting rod being connected to one end of the lowermost lever of the second mentioned pair of angled levers, a pair of links, one of said links having one end connected to the other end of the lowermost angled lever of the first mentioned pair and the other end connected to the adjacent end of the upper lever of the first mentioned pair, the other link similarly connecting the levers of the second mentioned pair, a second pair of links, one of said links having one end connected to the other arm of the upper lever of the first mentioned pair and the other end connected to the arm on the end of the adjacent rock shaft and the second link similarly connecting a second pair of angled levers to the other rock shaft.

1,753,718. LUBRICATOR. SHERMAN H. PAXTON, Los Angeles, Calif., assignor to Jay Manufacturing Co., Los Angeles, Calif., a Corporation of California. Filed May 7, 1929. Serial No. 361,121. 12 Claims. (Cl. 123—196.)



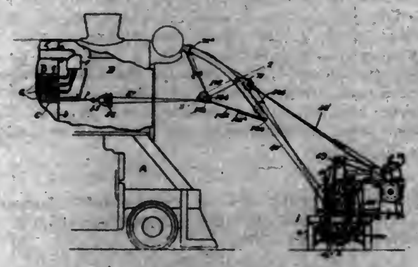
1. A lubricator including a housing having a chamber therein, a pipe connection from said housing to the inlet manifold of an engine whereby said chamber is intermittently subjected to suction when the engine is operated, a container secured to the lower end of said housing, a pan in said housing, an overflow wall to said pan that is arranged around an opening through said pan, and a pump in said housing that is actuated by suction from the engine for transferring lubricant from said container to maintain a constant level in said pan.

1,753,719. BROILER RACK. MAURUS C. RECK, Rochester, N. Y., assignor to Sterling Range & Furnace Corporation, Rochester, N. Y., a Corporation of New York. Filed June 8, 1929. Serial No. 369,352. 20 Claims. (Cl. 53—5.)



1. A broiler rack comprising a pair of adjacently mounted frames, yieldable means connecting the frames whereby they will accommodate themselves to food portions of various thicknesses placed therebetween, said yieldable means being tensioned to engage different portions of one frame whereby it is held thereon against displacement and means forming a handle for the frame.

1,753,720. INDUSTRIAL TRUCK AND ATTACHMENT THEREFOR. EDWARD H. REMDE, Cleveland, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 20, 1925. Serial No. 51,498. 6 Claims. (Cl. 212—28.)

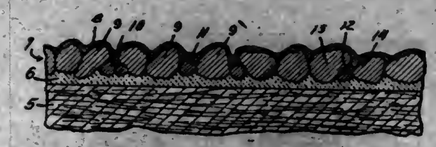


1. In apparatus of the class described, the combination with a frame and supporting wheels therefor, of a boom pivotally mounted on said frame, a flexible member suspended from said boom and carrying a load engaging member, means on said frame for operating said flexible member, and means carried by the boom inwardly of its free end and arranged to engage the suspended portion of said flexible member when said load engaging member is connected to a load disposed outwardly beyond the boom, said guide comprising a swingable arm carrying a sheave with which said flexible member removably engages and a connection between the outer portion of said arm and a portion of the boom therebelow for resisting the pull of said flexible member on said arm.

1,753,721. METAL-PROTECTED ROOFING ELEMENT AND METHOD OF MAKING THE SAME. THOMAS ROBINSON, New York, N. Y., assignor to Anaconda Sales Company, New York, N. Y., a Corporation of Delaware. Original application filed Feb. 10, 1923, Serial No. 618,246. Divided and this application filed May 15, 1926. Serial No. 109,425. 10 Claims. (Cl. 204—8.)

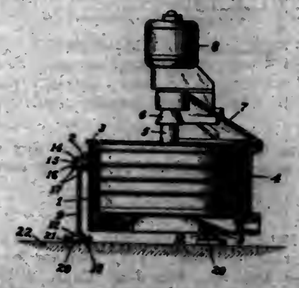
6. A material for roofing and other purposes, comprising the combination of a felted fibrous base of waterproof char-

acteristics, a coating of a plastic material having a high coefficient of expansion applied to the surface of the fibrous base, a layer of non-metallic electroconductive granular material over the coating, the granules being partially embedded therein and presenting an irregular surface, and



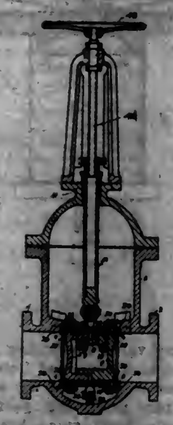
a layer of metal over the conductive layer and conforming to the irregularities of the surface both on its outer and inner faces, such that the layer of metal has an irregular contour substantially corresponding to the contour of the granular layer.

1,753,722. SUPPORT FOR CENTRIFUGALS. CARL SCHAUM, Wyncote, Pa., assignor to Fletcher Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 5, 1927. Serial No. 224,161. 7 Claims. (Cl. 210—63.)



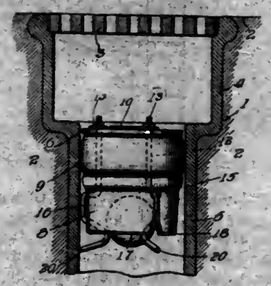
1. A support for a centrifugal comprising a plurality of normally vertically positioned legs, each of said legs provided with a foot, the lower surface of each foot being struck on an arc, the centre of which is above the top of the leg and the top of the legs adapted to fit within projections extending from the sides of the centrifugal.

1,753,723. VALVE. FRANZ SEIFFERT, Berlin, Germany, assignor to the Firm Franz Seiffert & Co. Aktiengesellschaft, Berlin, Germany. Filed Feb. 11, 1927, Serial No. 167,528, and in Germany Oct. 21, 1925. 12 Claims. (Cl. 251—66.)



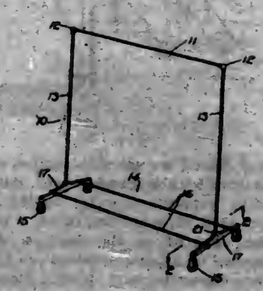
1. A gate valve comprising a casing, a valve body adapted to be displaced in said casing and to cooperate with seats in said casing on opposite sides of said valve body, said valve body comprising valve plates adapted to engage said seats, a rotary member held against axial displacement in said casing and seated on said valve plates, means for imparting rotary motion to said member, and wedge elements on said rotary member and said valve plates in oppositely inclined relationships for translating the rotary motion of said member into opposite axial motion of said valve plates.

1,753,724. AUTOMATIC BACKWATER VALVE. WALLACE W. SHAW, Chicago, Ill. Filed Nov. 23, 1928. Serial No. 321,361. 7 Claims. (Cl. 182—15.)



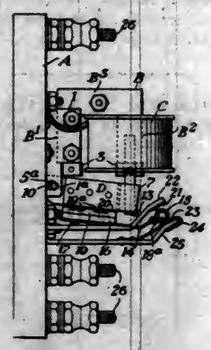
1. In a device of the kind described, a top plate provided with a central opening, a lower annular member, an expansible packing ring between said members, connecting rods extending up through the top plate and having operative connection with the lower member, nuts on the upper ends of the rods by means of which the two members can be drawn toward each other to expand the packing ring, a ball valve adapted to be lifted by water to close said opening, and the lower end portions of said rods projecting inwardly to prevent the escape of said ball valve.

1,753,725. RACK FOR GARMENTS AND THE LIKE. SAMUEL SOLOMON and LOUIS LEVINE, New York, N. Y. Filed Mar. 7, 1928. Serial No. 259,633. 7 Claims. (Cl. 211—182.)



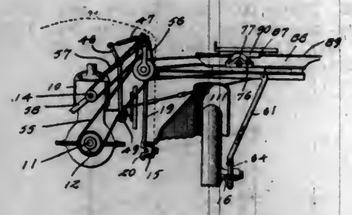
5. In a clothes rack of the character described, in combination, a horizontal supporting member and a pair of upright members supporting said horizontal member, a base frame for said upright members comprising a plurality of horizontal rods and a plurality of cross bars secured to the end portions of said rods and upright members, said bars being hollow and provided with spaced walls and integral cylindrical walls interconnecting said spaced walls forming thru openings for receiving said end portions.

1,753,726. ELECTRICAL RELAY. PAUL P. SOSINSKI, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Nov. 28, 1928. Serial No. 322,543. 4 Claims. (Cl. 200—87.)



1. A relay comprising an inverted U-shaped core having one leg provided with an energizing winding, two brackets one attached to each side of the other leg of said core and each provided with a downwardly projecting lug, a pin passing through said lugs, an armature provided with an elongated hole and loosely pivoted on said pin at said hole, a stirrup riveted to said one leg of the core and passing freely around the free end of said armature to limit the motion of said armature laterally and away from said core, a contact finger attached to said armature but insulated therefrom, and a fixed contact co-acting with said contact finger.

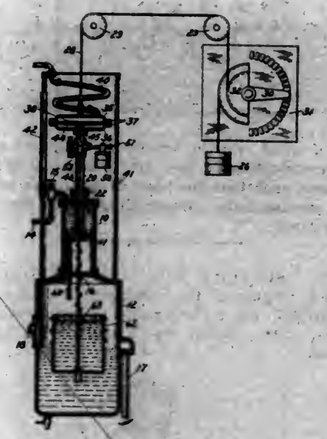
1,753,727. POWER TAKE-OFF. JOSEPH M. SMIGEL, St. Joseph, Mo. Filed Apr. 20, 1929. Serial No. 356,698. 8 Claims. (Cl. 180—53.)



1. In a power takeoff for use with engines of automobiles and in combination with a chassis frame, dash and engine of an automobile, supports mounted on the chassis frame and dash, said dash support comprising a socket member adapted to be mounted on the dash, a shaft mounted in said supports, a driving element mounted thereon, and means for connecting said driving element with the engine to be driven thereby.

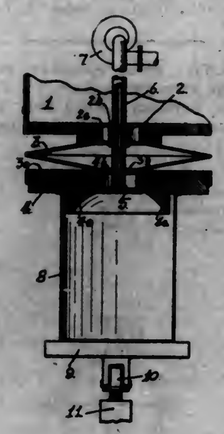
1,753,728. REGULATING APPARATUS. CHARLES M. TEARY, Decatur, Ill., assignor to A. W. Cash Company, Decatur, Ill., a Corporation of Delaware. Filed Jan. 5, 1928. Serial No. 244,651. 15 Claims. (Cl. 121—1.)

1. A regulating apparatus comprising a fluid operated motor having a cylinder and a piston, one of which is movable relative to the other, means for connecting the movable member to an exterior control device, a valve mechanism effective to control the fluid pressure in the cylinder, a chamber movable with and fixed to the movable member of the fluid motor, and a pressure responsive member in said chamber which is connected to the valve



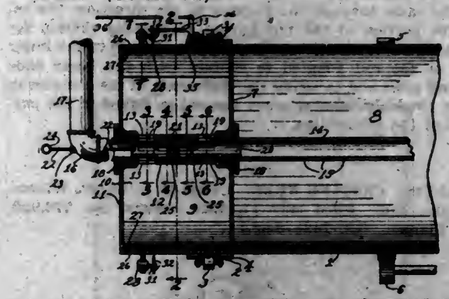
mechanism to operate the same so that any change in pressure in said chamber will result in a movement of the piston.

1,753,729. FILLING VALVE FOR SIRUPERS. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed May 17, 1927. Serial No. 192,078. 8 Claims. (Cl. 226—124.)



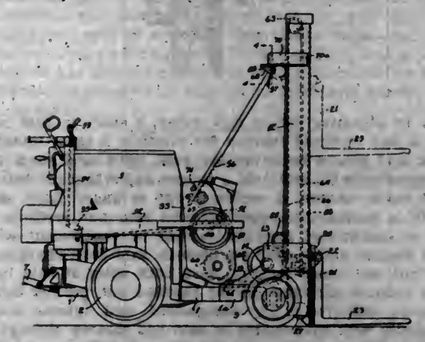
2. A liquid filling valve comprising a hollow resilient body member fitted to a source of liquid supply; an underlying seating member carried by said body member, having a downwardly projecting, ported inverted, dish-shaped hub; an apertured valve head, controlling the port of said hub; and an air vent stem carrying the valve head.

1,753,730. MIXER SHELL FOR TRANSIT MIXERS. EDWARD T. TULLER, Oakland, Calif., assignor to Transit Mixers, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Dec. 17, 1928. Serial No. 326,441. 11 Claims. (Cl. 83—73.)



1. A mixing cylinder comprising an elongated body mounted for axial rotation, said body on its interior provided with a water container rotatable therewith, and valve controlled means for supplying water to the container and therefrom into the mixing cylinder.

1,753,731. INDUSTRIAL TRUCK. EDWARD J. ABBE, Cleveland, Ohio, assignor to The Elwell Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 16, 1927. Serial No. 168,544. 7 Claims. (Cl. 254—3.)



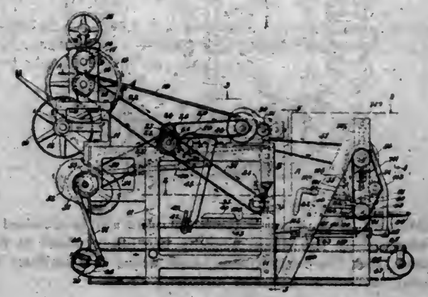
1. In combination with an industrial truck, an upright trackway pivotally mounted on the truck, load engaging means guided by the trackway, power hoisting mechanism with connections to both tilt the trackway and raise and lower the load engaging means, the tilting connection including a rigid oscillatable and reciprocable member pivotally attached to the trackway, there being means movably engaging the member to hold it in cooperative relation to the hoisting mechanism.

1,753,732. LIQUID EXTRACTOR. WILLIAM K. ACKERMAN, Detroit, Mich. Filed Sept. 2, 1927. Serial No. 217,052. 3 Claims. (Cl. 137—20.)



1. A liquid extractor adapted to be placed in a receptacle to remove liquid from the receptacle, said extractor comprising a siphon member, and spaced pistons on said member adapted to be successively brought into engagement with the inner wall of the receptacle.

1,753,733. FOLDING MACHINE FOR ALIMENTARY PASTES. CONRAD AMBRETTE, Brooklyn, N. Y. Filed Oct. 31, 1925. Serial No. 66,012. 32 Claims. (Cl. 107—7.)



8. In a machine for forming and folding spaghetti, dough feeding means, dough slitting means to form the dough into threads, means to cut the threads into strips of predetermined length, a carriage placed underneath the cutting means and provided with a longitudinal trough to receive a number of strips and assemble them into a bunch, means to reciprocate the carriage, a finger operating means therefor to cause the finger to pick the bunch out of the trough before the carriage retreats and double the bunch upon itself, a receiver for the doubled bunch, said finger operating means causing the finger to release the bunch and deposit it on the receiver, and means intermittently to advance the receiver.

1,753,734. IGNITION-SWITCH LOCK. FREDERICK W. ANDREW, Andalusia, and WILSON HEMINGWAY, Jr., Philadelphia, Pa., assignors, by direct and mesne assignments, to The Electrolock Manufacturing Company, Vicksburg, Miss., a Corporation of Mississippi. Filed Sept. 29, 1927. Serial No. 222,718. 14 Claims. (Cl. 200—44.)

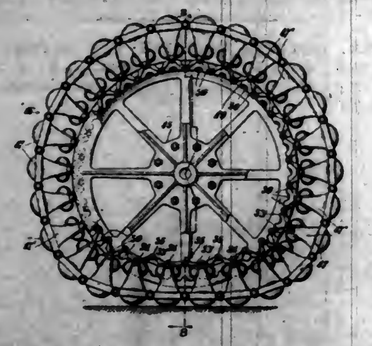


1. In an ignition switch lock the combination of a switch casing, a block of insulating material mounted in said casing, a wedge for retaining the said block within the said casing, said wedge being of semi-circular shape, contacts stationarily mounted upon said block, and a contact slidably movable into and out of contact with the said stationarily mounted contacts.

1,753,735. VEHICLE WHEEL. ISAAC H. ATHEY, Chicago, Ill. Filed July 16, 1926. Serial No. 122,769. 14 Claims. (Cl. 305—6.)

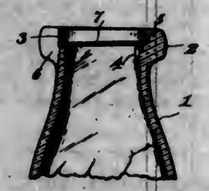
4. A vehicle wheel comprising a series of tread shoes pivotally inter-connected to form an endless band, each shoe having an inwardly projecting rigid suspension arm

carrying a suspension link at its inner end, a rigid inner load supporting wheel having an annular suspension surface of greater diameter than the diameter of a circle de-



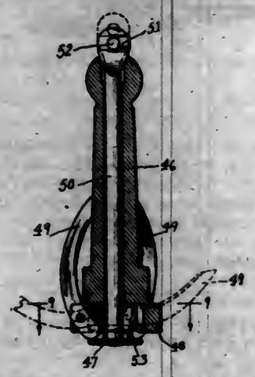
scribing all of the shoe suspension links and positioned to be engaged by the links whereby the inner wheel is suspended from the flexible band, and means for limiting the pivotal movement between adjacent shoes.

1,753,736. BOTTLE. SANFORD J. BLACKWELL, Atlanta, Ga., assignor of one-fourth to Henry Woodfin McLarty, Atlanta, Ga., one-fifth to Cobb Benning, Atlanta, Ga., and eleven-twentieths to Ransom and Company, Inc., Atlanta, Ga. Filed Mar. 7, 1929. Serial No. 344,949. 8 Claims. (Cl. 215—31.)



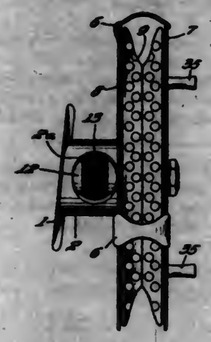
1. A bottle having its side wall formed with a circumferentially extending interior shoulder and further formed in its upper edge with a notch having its bottom wall flush with the upper face of the shoulder, said shoulder extending at an upward inclination from both sides of said notch and having its uppermost portion disposed diametrically opposite to said notch.

1,753,737. ANCHOR AND REEL THEREFOR. STEPHEN F. BOHM, Cicero, Ill. Filed Apr. 2, 1928. Serial No. 266,529. 1 Claim. (Cl. 114—208.)



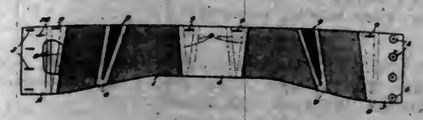
An anchor comprising a body provided with a longitudinal passage, integral ears at the lower end of the body, arcuate drag arms pivoted adjacent their lower ends to said ears, said arms being movable on said pivots in a direction to cause the upper ends of the arms to bear against the body member, a rod slidable in said passage and having its upper end enlarged to limit the movement of the same through the passage in one direction, the enlarged portion of the rod having an opening therein for attachment to an anchor line, a plate secured to the lower end of the rod adapted to contact with the lower ends of said arms and to swing the upper ends of the arms away from the body member when the rod is moved in the passage by the anchor line.

1,753,738. CASTING REEL. CHARLES A. BOYER, Winona Lake, Ind. Filed May 11, 1928. Serial No. 276,929. 7 Claims. (Cl. 242—84.5.)



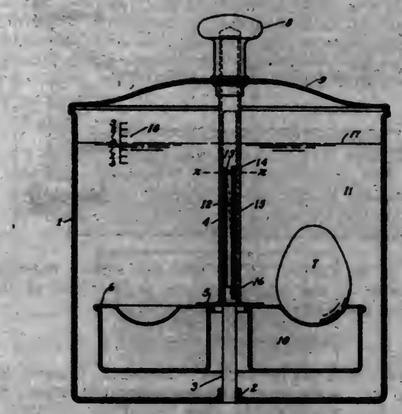
5. In a casting reel, a hub casing, a shaft in said casing, a hub mounted thereon for rotation, a spool integral with said hub, a brake washer loose upon said shaft for engagement with said hub, a tongue adjustably carried by said brake washer, a sectional nut arranged upon said shaft, a spring interposed between said nut sections, a lug at one end of said nut capable of engagement with said washer, and a small lug opposite said first named lug, the nut end being bevelled upon both sides of said lugs in a common direction, either bevelled nut portion being adapted selectively for engagement and release automatically with said tongue as said hub rotates, through a predetermined adjustment of said sectional nut upon its shaft.

1,753,739. ABDOMINAL BELT. GERTRUDE BURNS. New York, N. Y. Filed July 21, 1928. Serial No. 294,490. 4 Claims. (Cl. 2—41.)



4. A one-piece belt comprising a narrow band of lightweight elastic material adapted to encircle the body of the wearer in the region of the abdomen and increasing in width toward the front ends to largely cover and confine the abdomen, means for fastening the ends of the band together at the front, a plurality of transverse relatively inelastic sections each including a pair of busks having their upper ends spaced slightly apart and their lower ends close together, and a plurality of button-holes disposed about the upper edge of said band in the space between each pair of busks for engagement with buttons disposed about the inner edge of an outer garment such as a pair of trousers.

1,753,740. AUTOMATIC EGG BOILER. PHILIP P. CHAPIN and WILLIAM J. KUPEC, New York, N. Y. Filed Sept. 12, 1927. Serial No. 218,974. 2 Claims. (Cl. 53—1.)



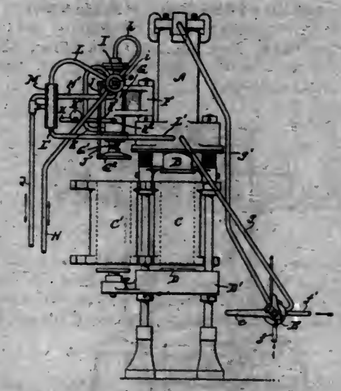
1. An egg boiler having the combination of a vessel for water, an egg carrier in said vessel, said carrier having a floating element to lift it out of the water, guiding means for the vertical movement of said carrier including a vertical slot having a lateral spur, a projection engaging said spur to maintain said carrier submerged contrary to the upward pressure of said element, and a thermostatic bar adapted to flex and align said projection with said slot to permit said element to move said carrier out of the water.

1,753,741. SELF-HEATING DEVICE SUCH AS SOLDERING IRONS. IRVING COWLES, Detroit, Mich., assignor to Union Bank of Chicago, Chicago, Ill., a Corporation of Illinois, trustee. Filed July 13, 1925, Serial No. 43,114. Renewed Sept. 7, 1929. 23 Claims. (Cl. 158—24.)



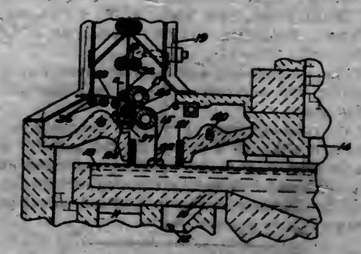
1. A device of the kind specified comprising a combustion chamber, an element to be heated mounted at one end thereof, a member mounted at the other end thereof provided with air supply passage for connecting said combustion chamber with atmosphere, a central mixing chamber in said member having a central discharge duct into said combustion chamber, there being a central gas intake opening at the other end of said mixing chamber, a valve-seat bordering one end of said opening, a valve seating on said valve-seat for controlling the volume of gas fed to said mixing chamber, air passages connecting the gas-intake end of the latter with atmosphere, and a member adjustable in the discharge end of said mixing chamber for coaction with the said valve-seat for controlling the volume of air admitted to said mixing chamber.

1,753,742. HYDRAULIC PRESS. JOSEPH DE FRANCISCI, Brooklyn, N. Y. Filed July 9, 1926. Serial No. 121,290. 21 Claims. (Cl. 138—10.)



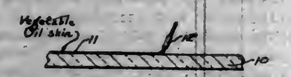
1. In a hydraulic press, the combination with a hydraulic extruding ram including a controlling valve for effecting the extruding stroke and the return stroke, and a shiftable material cylinder, of a hydraulic packing plunger operable within said material cylinder for applying pressure for a determined time upon a mass to be compressed whereby the density of said mass is increased prior to the action upon the condensed mass of said hydraulic extruding plunger, and fluid pressure means responsive to a return stroke of the extruding ram for effecting the withdrawal from the material cylinder of said packing plunger.

1,753,743. METHOD AND APPARATUS FOR DRAWING SHEET GLASS. JOHN L. DRAKE, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 28, 1927. Serial No. 170,240. 16 Claims. (Cl. 49—17.)



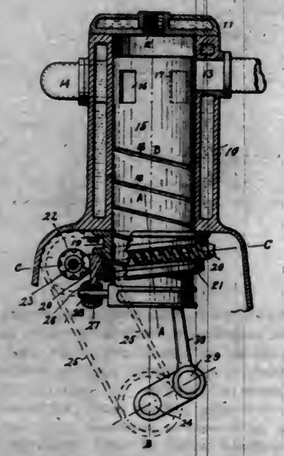
5. In sheet glass apparatus, rotatable means for cutting the edges from a moving sheet as it is being deflected from one plane to another, means for deflecting the said edges out of the path followed by said sheet, means for adjusting said rotatable cutting means transversely of said sheet, and means for adjusting said deflecting means to correspond with the adjustments of the cutting means.

1,753,744. LAMINATED GLASS. FRANK FRASER, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 23, 1926. Serial No. 130,825. 8 Claims. (Cl. 49—81.)



8. As a new article of manufacture, a sheet of laminated glass comprising two sheets of glass, each having a vegetable oil skin thereon, and a sheet of non-brittle material interposed therebetween and united thereto.

1,753,745. VALVE-OPERATING MECHANISM. CLIFFORD S. GOBY, Cleveland, Ohio, assignor of one-half to Alice Myrzie Davis, New London, Ohio. Filed Apr. 18, 1927, Serial No. 184,541. Renewed Aug. 30, 1929. 7 Claims. (Cl. 123—80.)



1. In a device of the class described, a cylindrical valve, means for imparting continuous rotary and reciprocatory motion thereto, comprising a ring surrounding the valve with its axis set at an angle to the axis of the valve, a bearing for said ring supported upon a fixed portion of the device, an arm connecting said ring with said valve, and means for rotating said ring.

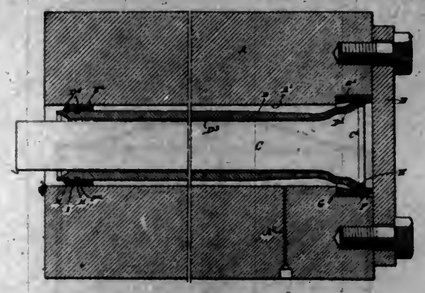
1,753,746. PLASTIC COMPOSITION. ARCHIE R. KEMP, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 3, 1923. Serial No. 678,207. 9 Claims. (Cl. 106—13.)

2. A filler of fused silica in a finely divided amorphous state having the surfaces of individual particles in a crystalline state.

8. In the manufacture of plastic compositions which contain fused silica in a finely divided state as a filler, the step of removing from the filling material adsorbed and occluded gases followed by the step of forming a thin film of tridymite upon the surface of individual particles of the filler.

1,753,747. MANUFACTURE AND REPAIR OF CENTRIFUGAL MOLDS. FREDERICK C. LANGENBERG, New York, N. Y., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Dec. 29, 1923. Serial No. 329,189. 8 Claims. (Cl. 29—148.)

1. The method of manufacturing a steel mold of improved wearing qualities for the centrifugal casting of tubular bodies which consists in radially contracting and longitudinally elongating a steel tube by fluid pressure

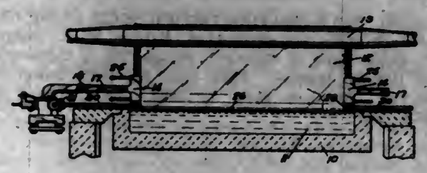


applied to the exterior of the tube and smooth finishing the interior of the contracted tube to the form of the exterior of the casting to be formed therein.

1,753,748. METALLIC ALLOY. HENRY J. LORANG, St. Louis, Mo., assignor of one-half to Frank J. Kuna, St. Louis, Mo. Filed Dec. 24, 1928. Serial No. 328,318. 2 Claims. (Cl. 75—1.)

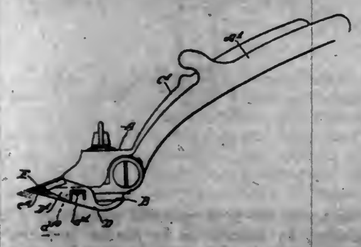
1. A metallic alloy comprising the following metals combined in substantially the proportions stated, viz: copper, 1 1/16 %; zinc, 1 1/16 %; tin, 6 1/4 %; lead, 21 3/4 %; and antimony, 68 3/4 %.

1,753,749. SHEET-GLASS EDGE-FORMING MEANS. LEOPOLD MAMBOURG, Lancaster, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 29, 1925. Serial No. 33,708. 16 Claims. (Cl. 49—17.)



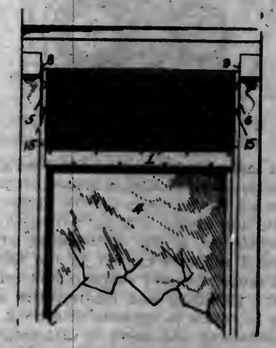
1. In sheet glass apparatus, a receptacle containing a mass of molten glass, means for drawing a sheet therefrom, a stationary guide member arranged at each edge of the sheet, and a rotatable member in horizontal alignment with a portion of each guide member and cooperating therewith to assist in advancing glass through said guides.

1,753,750. HAIR CLIPPER. MICHAEL W. MCARDLE, Chicago, Ill., and JOHN H. DONNELLON, Evanston, Wyo. Filed Nov. 3, 1927. Serial No. 230,728. 8 Claims. (Cl. 30—1.)



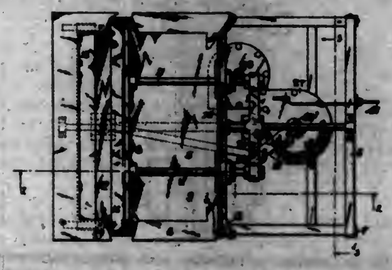
1. A hair clipper and the like comprising in combination with a lower fixed cutter and comb and a reciprocating cutter blade mounted above the same and cooperating therewith for the cutting action, an upper comb mounted above the reciprocating blade and having comb teeth extending forwardly above and coinciding in vertical plane with teeth of the lower comb, and extending respectively with downward inclination over the corresponding teeth of the lower comb forwardly past the vertical plane of the points of the teeth of the lower comb, and means by which said upper comb is rendered adjustable longitudinally of the comb teeth with range of adjustment suitable for carrying the points of said upper comb teeth forwardly of the points of the teeth of the lower fixed comb and below the plane of the cut.

1,753,751. FIXTURE FOR ROLLER SCREENS OR SHADES. EDWARD C. PHILIPPS, Brooklyn, N. Y. Filed Nov. 15, 1927. Serial No. 233,361. 4 Claims. (Cl. 156—24.)



3. A window frame fixture for the Hartshorn rollers of roller screens comprising a base of substantially the same width as the window sash, a raised part thereon having an aperture to receive the roller pin, a prong adjacent each side of said base adapted to be driven upwardly into the top of the frame by striking the lower end of the base with a hammer and a downwardly projecting shank having a single nail hole therein.

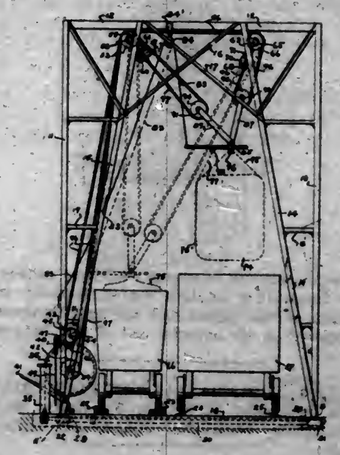
1,753,752. WASHING MACHINE. WILLIAM C. REID, Oakland, Calif. Filed Apr. 11, 1928. Serial No. 269,255. 1 Claim. (Cl. 68—19.)



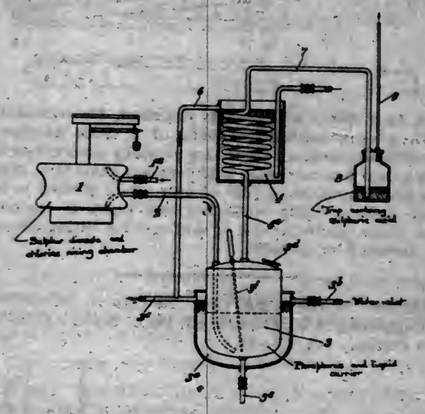
In a washing machine, a receptacle adapted to contain washing fluid and articles to be cleansed, a plunger located in the receptacle and adapted to move with reciprocating motion backward and forward, a motor-driven mechanism for actuating the plunger, and a braking mechanism for giving the motor a load at all times, whereby the plunger may be smoothly operated backward and forward.

1,753,753. HOISTING AND WEIGHING MEANS. HORACE F. RUGGLES, Brooklyn, N. Y. Filed Mar. 26, 1923, Serial No. 627,836. Renewed Sept. 11, 1929. 8 Claims. (Cl. 212—88.)

1. In a hoisting mechanism the combination with load carrying means, a support, cables at angles to each other and secured to said load carrying means, means for operating said cables to hoist said load carrying means and means operable independently of the aforesaid cable operating means to vary the tension on said cables due to the weight of the load in order to traverse the said load carrying means, the independent means being capable of operation while the hoisting means is stationary and vice versa.



1,753,754. MANUFACTURE OF PHOSPHORUS OXYCHLORIDE AND THIONYL CHLORIDE. GEORGE J. SCHUDEL, Nitro, W. Va., assignor, by mesne assignments, to Elko Chemical Company, a Corporation of West Virginia. Filed Nov. 18, 1926. Serial No. 149,063. 15 Claims. (Cl. 23—203.)

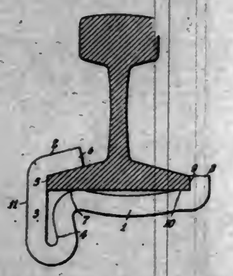


9. The process which comprises producing phosphorus oxychloride by the reaction of a mixture of sulphur dioxide and chlorine on phosphorous contained in a liquid carrier, the sulphur dioxide and chlorine being in the form of a liquid, said liquid carrier being a compound such as formed in the above reaction.

1,753,755. RAIL ANCHOR. CHARLES B. SHEPHERD, New York, N. Y., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1928. Serial No. 276,207. 8 Claims. (Cl. 238—330.)

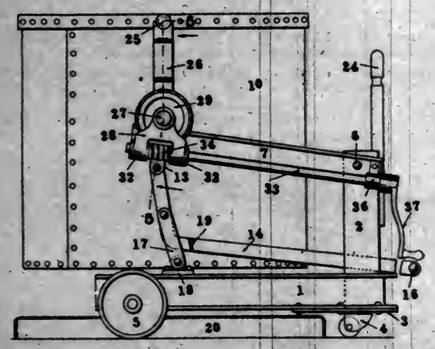
1. A rail anchor comprising a body member, a downwardly depending looped member disposed at one end

thereof, said looped member having legs of unequal length, means adapted to engage the upper surface of the rail base flange disposed on the longer leg, and means disposed on



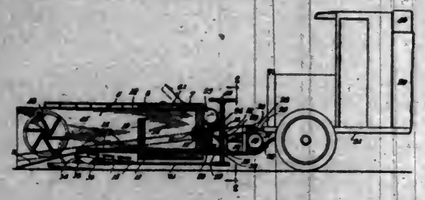
the shorter leg adapted to engage the under surface of said rail base flange at a location spaced inwardly from the edge surface of said flange and rail base flange-engaging means disposed on the opposite end of said body member.

1,753,756. HOISTING AND TILTING TRUCK FOR TANKS. CHESLEY T. SMALL, St. Louis, Mo. Filed Jan. 12, 1928. Serial No. 246,148. 6 Claims. (Cl. 298—11.)



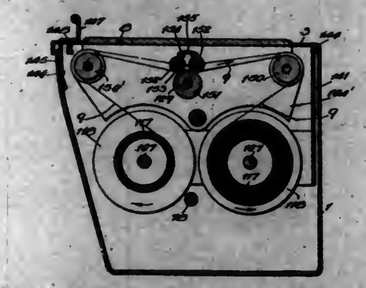
1. In a device of the class described, the combination with a tank having trunnions, of a truck adapted to straddle the tank, a pair of bars pivotally mounted on said truck, bearings carried by said bars and adapted to engage the tank trunnions, a pair of bent levers pivoted to said bars, links pivotally connecting said levers to the truck, and means carried by one of said oars for tilting the tank to discharge its contents.

1,753,757. SNOW REMOVAL. EDWARD A. SMITH, West Englewood, N. J. Filed June 7, 1924. Serial No. 718,484. 3 Claims. (Cl. 37—12.)



2. Snow removal apparatus, comprising a portable snow melting chamber open to receive the snow, a combustion chamber in rear of said melting chamber, a baffle wall between the melting chamber and combustion chamber having flame passages above and below the same, a burner at the rear of the combustion chamber directed against the baffle wall to enable combustion of fuel within the combustion chamber and passage of flame over and under said baffle wall into the forward melting chamber and means for steering the apparatus to direct the open melting chamber according to requirements.

1,753,758. ROAD INDICATOR. THEODORE J. SMULSKI, Chicago, Ill., assignor to The Mileometer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1920. Serial No. 416,187. 7 Claims. (Cl. 40—42.)



1. In a road indicator of the kind described and in combination, a casing provided with a hinged cover plate and having an opening therethrough for the display of a tape arranged within the casing, a frame arranged within the casing and movable in or out of the same as desired, a plurality of spool supports carried by the said frame, a tape, spools arranged on said supports and carrying said tape, means for yieldingly and continuously urging said spool supports to rotate in opposite directions, means for detachably maintaining said spools on said supports, means carried by said frame for feeding the tape through the machine from one spool to the other, and mechanism for driving said spool supports and feeding mechanism in a desired manner.

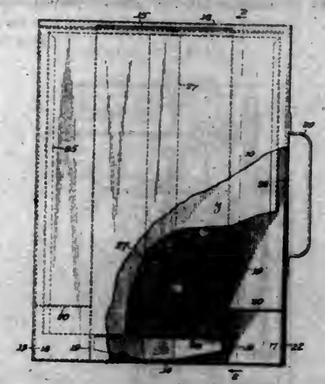
1,753,759. ENGINE. EDWARD A. STALKER, Ann Arbor, Mich. Filed June 1, 1927. Serial No. 195,795. 14 Claims. (Cl. 123—56.)



13. In an engine, a cylinder and piston construction providing a combustion chamber on one side of the piston-head, fuel supply means, means for supplying scavenging air to said combustion chamber at a certain point in the cycle of operations to scavenge burnt gases, and means for supplying a supplementary scavenging flow of air to the combustion chamber arranged so that the first mentioned scavenging flow of air to the combustion chamber causes the supplementary scavenging flow of air by induction.

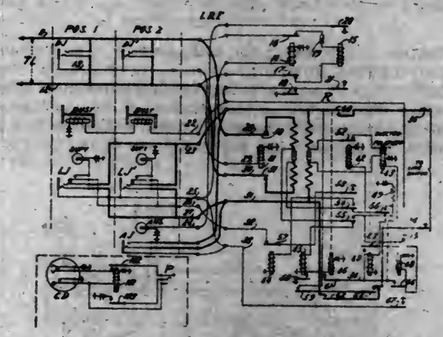
1,753,760. DRAFTING OUTFIT. WILLIAM E. WHITE, Chicago, Ill. Filed Mar. 23, 1927. Serial No. 177,494. 2 Claims. (Cl. 45—69.)

2. A drafting device comprising in combination, a hollow casing, a pad-back having flanges thereon adapted to engage and hold a pad of paper, and a projection on said pad-back, the said casing having an opening in one side



thereof adapted to receive the projection on said pad-back, the said opening conforming substantially to the contour of the said projection.

1,753,761. TELEPHONE SYSTEM. JOHN WICKS, Oak Park, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Sept. 26, 1925, Serial No. 58,680. Renewed Jan. 27, 1930. 24 Claims. (Cl. 179—27.)



10. In a telephone system, a two-way trunk line, a jack and a repeater directly connected to said trunk line at one-end thereof, an automatic switch at each end of the trunk line, means for associating a calling device with said trunk line by way of said jack to control the switch at the other end, and means controlled by the calling device to disconnect the repeater from the trunk line.

1,753,762. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill., assignor to National Rail Joint Corporation, a Corporation of Illinois. Filed Apr. 12, 1929. Serial No. 354,492. 26 Claims. (Cl. 238—243.)



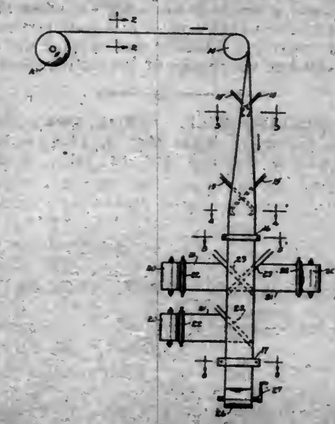
1. A rail joint comprising a splice bar or fish plate having a relatively wide bottom formed with an outer flange, whereby the top of the bar is more flexible than the bottom, and having its top portion curved or bowed inwardly at its middle, when viewed from above, so that when the bar is tightened on the rail joint the ends of the bar are forced inwardly toward the rails, placing the bar under tension, whereby the middle portion of the bar will tend constantly to spring inwardly toward the rails.

1,753,763. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill. Filed June 24, 1929. Serial No. 373,285. 13 Claims. (Cl. 238—243.)



1. In a rail joint, a splice bar or fish plate having an inwardly curved middle portion, and having straight end portions in alignment with each other.

1,753,764. METHOD AND APPARATUS FOR MAKING MANIFOLD FORMS. LOUIS J. WILLARD, Norwalk, Ohio, assignor to The Rotary Printing Company, Norwalk, Ohio, a Corporation of Ohio. Filed Apr. 24, 1929. Serial No. 357,744. 10 Claims. (Cl. 270—41.)



1. A method of making manifold forms, comprising taking a web, gathering it longitudinally to make a fanfold form, and thereafter interleaving long continuous carbon strips between the folds.

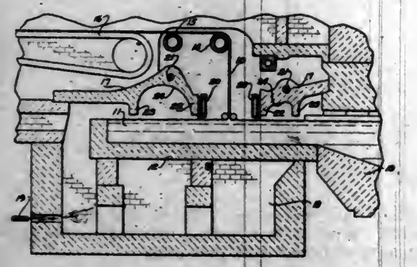
1,753,765. COMBINED BELT BUCKLE AND CONTAINER. JOHN B. WITHERS, Oakland, Calif. Filed Apr. 16, 1927. Serial No. 184,189. 2 Claims. (Cl. 224—5.)



1. In a device of the character described, a moisture proof openable box, a belt buckle providing a receptacle

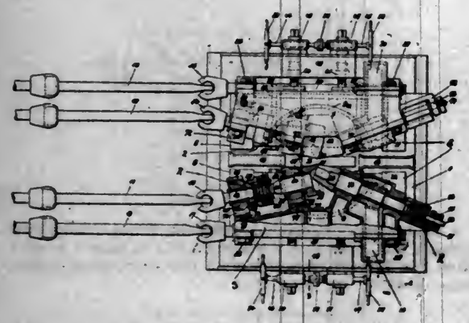
for the slidable reception of said box longitudinally through an end thereof, means for releasably fixing said box in said receptacle, and means on said box providing a closure for said receptacle when said box is fixed therein.

1,753,766. SHEET-GLASS APPARATUS. MIKE ZADOROZNY, Charleston, W. Va., assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 1, 1928. Serial No. 251,071. 4 Claims. (Cl. 49—17.)



4. In sheet glass apparatus, a receptacle containing a mass of molten glass, means for drawing a sheet therefrom, and a lip tile arranged on each side of said sheet, each lip tile comprising a body portion suspended over said molten glass and being supported at one end, a downwardly extending lip portion carried by the opposite end of the body, and a second downwardly extending lip protion arranged between the ends of said body portion, said lip portions creating a chamber for trapping and localizing heat adjacent the surface of the molten glass.

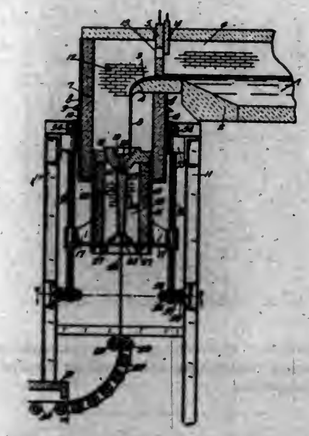
1,753,767. ROLLING MILL. GUSTAV ASBECK, Dusseldorf-Rath, Germany. Filed Mar. 1, 1928, Serial No 258,218, and in Germany Apr. 12, 1927. 9 Claims. (Cl. 80—13.)



1. A rolling mill comprising rolls mounted to engage opposite sides of a piece of material to be worked, the rolls on one side of said material being adjustable towards or from those on the other side and the rolls on each side of said piece of material being adjustable towards and from each other and to vary the direction of their axes of rotation.

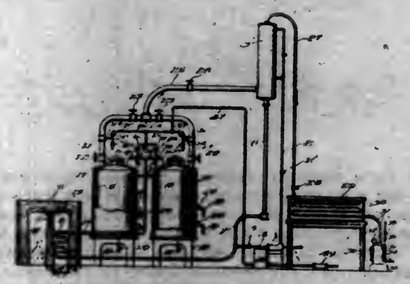
1,753,768. METHOD AND APPARATUS FOR FORMING SHEET GLASS. JAMES C. BLAIR, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 25, 1924. Serial No. 708,839. 10 Claims. 49—17.)

2. In apparatus for producing sheet glass, sheet-forming means for catching a stream of molten glass, distributing the glass into sheet form, and suspending a vertically hanging portion of the sheet, a housing for the molten stream, and a housing for the sheet-forming means, the



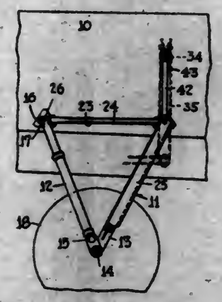
two housings having telescopic connection with one another, and means for adjusting the latter housing and the sheet-forming means vertically as a unit.

1,753,769. PROCESS AND APPARATUS FOR TREATING PETROLEUM OIL. ARTHUR G. BOGARDUS, New York, N. Y., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Jan. 30, 1925, Serial No. 5,704. Renewed July 2, 1928. 4 Claims. (Cl. 196—58.)



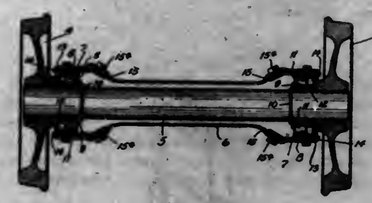
1. A method of treating petroleum oil, consisting in heating the oil, discharging said heated oil into one of a plurality of interconnected zones of reaction, where separation of vapors and precipitation of carbon takes place, removing the vapors, dephlegmating, condensing and collecting same, maintaining a superatmospheric pressure on the said zone, interrupting the discharge of heated oil into said zone of reaction and diverting same to another of the interconnected zones, gradually reducing the pressure in the first mentioned zone while simultaneously causing the system pressure to be imposed on the zone into which the discharge of heated oil has been diverted, preventing leakage of heated oil into the zone of reduced pressure by maintaining a neutral zone of oil in the vapor connection between the zones of reaction at temperature materially below the temperature of the oil being treated, under a pressure substantially the same as the pressure on the system.

1,753,770. RETRACTABLE LANDING GEAR. DANIEL J. BRIMM, Jr., West Hempstead, N. Y., assignor to Ireland Aircraft, Inc., a Corporation of New York. Filed Nov. 1, 1927. Serial No. 230,242. 12 Claims. (Cl. 244—2.)



6. In a retractable landing gear for aeroplanes, two landing gear supports, two landing gear struts pivotally fastened at their inner ends to said supports, an axle fitting to which both said struts are fastened at one end, an extension provided at the outer end of one of said supports, said extension being pivotally movable with both said struts when and as the landing gear is retracted, braces carried from the outer end of said extension to points above apd below said extension, one of said braces being fastened at its opposite end to said axle fitting, and means engaging another of said braces to retract the landing gear.

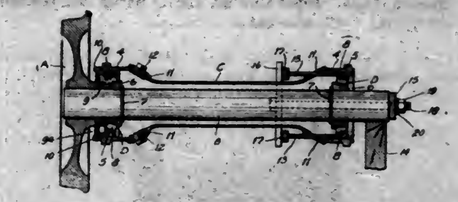
1,753,771. PROCESS OF REMOVING BEARINGS FROM AXLES. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 27, 1927. Serial No. 242,929. 6 Claims. (Cl. 29—84.)



1. The process of removing the inner raceway member of a roller bearing from a roller bearing axle construction wherein an axle is enclosed within a tubular axle housing and said bearing is interposed between said axle and said housing with its inner raceway member press-fitted on said axle, which consists in moving said axle endwise of said housing towards one end thereof far enough to move said inner raceway member clear of said end, interposing a member between said end of said housing and the adjacent end of said inner raceway member, and then pressing said axle endwise through said inner raceway member towards the other end of said housing while holding said axle housing against movement in such direction.

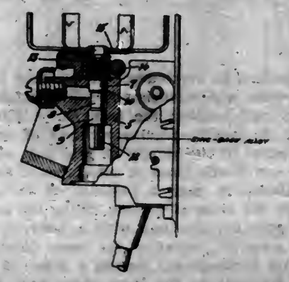
1,753,772. ROLLER-BEARING-AXLE CONSTRUCTION. TRACY V. BUCKWALTER, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 27, 1927. Serial No. 242,930. 2 Claims. (Cl. 295—36.)

1. In a roller bearing axle construction, an axle, a tubular housing enclosing said axle and having enlarged end portions forming an enlarged chamber at each end of said housing, and a roller bearing located in said chamber with its outer raceway member seated therein and



with its inner raceway member mounted on said axle, the enlarged end portion of said housing having openings therethrough through which access may be had to said bearing.

1,753,773. CHROMIUM-PLATED WORM SHAFT. ALBERT CHAMPION, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Oct. 1, 1926. Serial No. 138,940. 3 Claims. (Cl. 308—241.)



1. The combination with two parts having frictional engagement with each other, one of said parts having an ingredient tending to alloy with the other, but not with chromium, under the influence of friction, of a coating of chromium on one of said parts.

1,753,774. SEALING DOOR. WALTER H. D'ARDENNE, Philadelphia, Pa., assignor to Heintz Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 10, 1927. Serial No. 167,093. 10 Claims. (Cl. 20—35.)

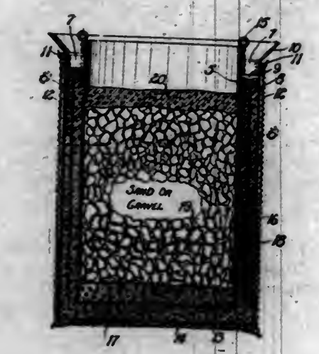


1. A sealing door comprising inner and outer portions and a coupling between the inner and outer portions mounting the former on the latter for limited floating movement in any direction relative thereto.

1,753,775. METHOD OF SIZING PAPER PULP. JUDSON A. DE CEW, Mount Vernon, N. Y., assignor to Process Engineers, Inc., New York, N. Y., a Corporation of New York. Filed May 24, 1929. Serial No. 365,798. 11 Claims. (Cl. 92—21.)

1. A method of sizing paper which consists first in making the fibres astringent with a solution of sulphate of alumina and having the solution surrounding the fibres at a pH. of from 5. to 6.8, and later adding a sizing material.

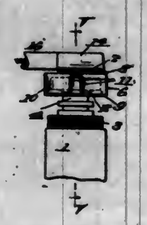
1,753,776. FILLED CONCRETE BLOCK AND METHOD OF MAKING THE SAME. JOHN A. DE VILBISS, St. Louis, Mo., assignor to Alexander P. De Vilbiss, Burlington, Iowa. Filed May 23, 1927. Serial No. 193,494. 10 Claims. (Cl. 25—154.)



1. The method of making concrete blocks for levee and revetment work, which consists in taking a fabric bag open at one end and holding the same in a distended form throughout its length, placing a layer of self-hardening plastic material in the bottom of said bag, placing a confined loose non-plastic mass on said layer of self-hardening plastic material in such a position as to be free from contact with the sides of the bag, filling the space between the loose mass and the bag with a body of plastic self-hardening material, releasing the loose non-plastic material from its confinement, placing a layer of plastic self-hardening material on the loose mass, and, lastly, securing the open end of the bag in closed position.

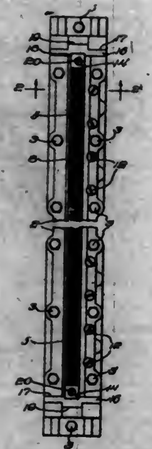
6. A filled concrete block comprising a central body, a layer of dry material of predetermined thickness surrounding said central body, said layer adapted to become self-hardening after being subjected to moisture, reinforcing material located in said layer of dry material, and a fabric casing for retaining said dry material in position.

1,753,777. CONNECTER FOR TERMINAL WIRES. JAMES DILLON, Mount Vernon, N. Y. Filed July 28, 1927. Serial No. 209,065. 4 Claims. (Cl. 173—269.)



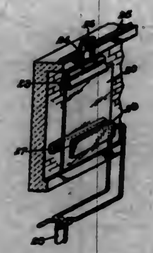
1. The combination with a spark plug having a thumb nut, of a connecter for terminal wires comprising, a body portion developed into oppositely disposed spring actuated jaws arranged to embrace the opposite sides of the thumb nut, each of said jaws having an inturned portion arranged to project under the thumb nut to prevent unintentional lateral displacement, and a wire holding member formed integral with said body portion and positioned to overhang the thumb nut.

1,753,778. RACK. JOSEPH C. DRADER, Detroit, Mich. Original application filed Nov. 10, 1927, Serial No. 232,226. Divided and this application filed June 19, 1929. Serial No. 372,172. 9 Claims. (Cl. 74—27.)



1. A toothed rack comprising a row of abutting members having corresponding edge portions thereof spaced and fashioned to form rack teeth, and means for applying a clamping stress to all of said members through an application of pressure to the end members of the row.

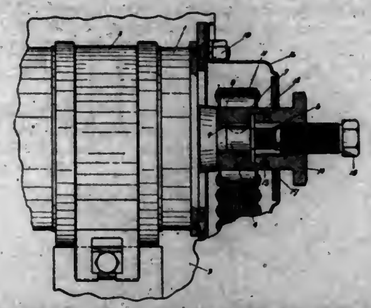
1,753,779. METHOD FOR PRODUCING SHEET GLASS. ENOCH T. FERNGREN, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 1, 1924. Serial No. 747,884. 4 Claims. (Cl. 49—87.)



1. The process of producing sheet glass, consisting in pressing a quantity of glass into sheet form, then placing the sheet in a vertical plane, and simultaneously moving a fire-polishing means and a cooling means in proximity thereto.

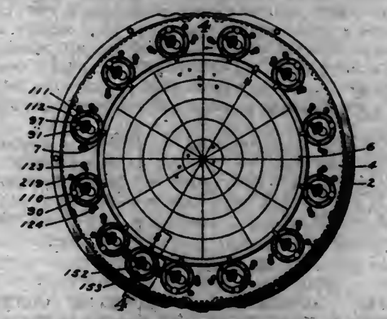
1,753,780. TOOL AND METHOD FOR REMOVING GENERATORS. WALTER S. FISHER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 30, 1927. Serial No. 179,450. 9 Claims. (Cl. 29—85.)

1. In a machine having a rotatable shaft, a sprocket mounted thereon, and a chain trained about the sprocket; a tool for removing the shaft comprising means adapted to engage and maintain the operative position of the sprocket, and means operatively associated with the engaging means for forcing the shaft out of engagement with the sprocket.



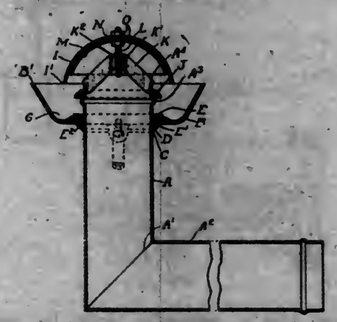
7. A method of repairing a device including a sprocket and chain driven shaft that comprises forcing the shaft out of engagement with the sprocket and thereafter maintaining the position of the sprocket while replacing the shaft.

1,753,781. PLOTTING APPARATUS. HANNIBAL C. FORD, Jamaica, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed May 4, 1928. Serial No. 275,195. 19 Claims. (Cl. 33—1.)



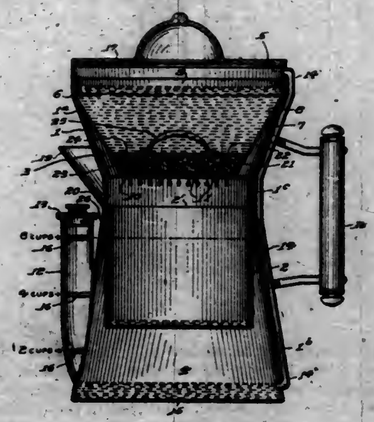
1. In apparatus for indicating the relative position of an object, the combination of an indicator, independent mechanism for driving the indicator in mutually perpendicular directions, light-projecting means associated with the indicator, and a chart upon which said means projects light to represent the relative position of the object.

1,753,782. OIL-BURNING APPARATUS. ALBERT R. GRANT, New York, N. Y. Filed July 21, 1928. Serial No. 294,391. 7 Claims. (Cl. 158—92.)



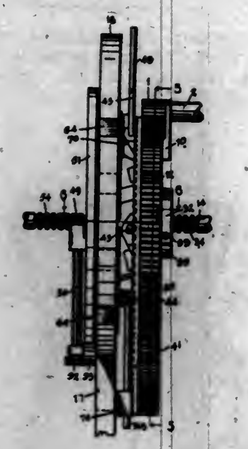
1. A burner-head of the character described comprising a conduit for air, a basin supported by said conduit, a wick in said basin, means for leading oil to said wick, a cap supported above the upper end of said conduit adapted to deflect air into said basin, and a ring for deflecting air mounted on said conduit below said cap.

1,753,783. UTENSIL FOR MAKING DRIP COFFEE. JOSEPH A. GUERIN, Sr., and JAMES M. GUERIN, Philadelphia, Pa. Filed Oct. 2, 1929. Serial No. 396,613. 1 Claim. (Cl. 53—3.)



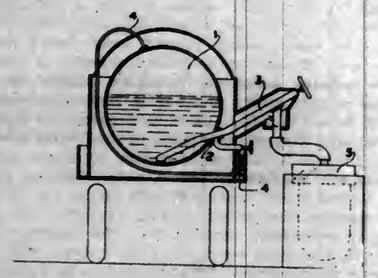
In a utensil for automatically making French drip coffee, the combination with a casing, substantially circular in transverse horizontal cross-section and having an upper section and a lower section, of a drip collecting receptacle having the upper portion of its side wall snugly fitting and secured substantially steam-tight against the inner surface of said casing between said sections and closing said lower section to form a water boiling chamber and closing the said upper section to form a coffee infusing chamber, the side walls of said drip collecting receptacle below the upper margin thereof being spaced from the inner wall of said water boiling chamber, a removable coffee infusing receptacle suspended within the upper section of said casing and having impervious side walls spaced from the side walls of said casing and a pervious bottom wall disposed over said drip collecting receptacle, a filter fabric in said coffee making receptacle lying flat against said pervious bottom, a water elevating pipe rigidly secured to the outside of said casing and having its ends passing through said casing, the upper end thereof being in communication with the coffee infusing chamber above said infusing receptacle and the lower end thereof being in communication with the said water boiling chamber at a substantial distance above the bottom of said boiler, a closure for the top of said casing, a water supply pipe communicating with said water boiling chamber through a side wall of said casing and a removable steam-tight closure for the upper end of said supply pipe, said casing being provided with a minute aperture immediately below the point where said drip collecting receptacle is secured to the interior of said casing, for the escape of low pressure vapor, and the capacity of said infusing receptacle being slightly greater than the capacity of said water boiling chamber above the point where said water elevating tube enters said water boiling chamber and the capacity of said drip collecting receptacle being slightly greater than the capacity of said coffee making receptacle, said casing being also provided with a passage near the top of said drip collecting receptacle for the discharge of the contents of said drip collecting receptacle therethrough.

1,753,784. TRANSMISSION GEAR. CARL W. HERZOG, Toledo, Ohio. Filed Oct. 7, 1929. Serial No. 397,851. 14 Claims. (Cl. 74—34.)



1. In a speed transmission gear, a floating circular member, means for varying the effective radius of the circular member, an element movable over the circular member, and a rotatable element connected to the member and driven by the member according to the speed of rotation about the effective radiant center of the circular member.

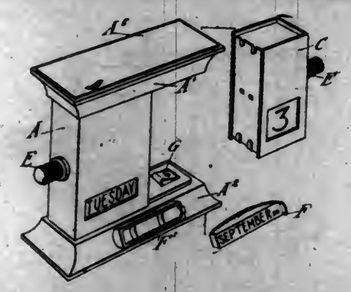
1,753,785. PROCESS OF TRANSFERRING LIQUEFIED GASES FROM ONE CONTAINER TO ANOTHER. CHRISTIAN WILHELM PAUL HEYLANDT, Berlin-Lankwitz, Germany. Filed Mar. 8, 1929, Serial No. 345,259, and in Germany Mar. 2, 1928. 4 Claims. (Cl. 62—1.)



1. The process of transferring liquefied gases from one container to another, which consists in maintaining the liquefied gases at their ordinary boiling temperatures in the first container, and utilizing a portion of the liquefied gases from the first container to apply an artificially increased momentary pressure to the liquefied gases thereby to cause the same to flow at increased speed into another container.

1,753,786. INDICATING DEVICE FOR DISPLAYING VARIABLE INFORMATION. ADAM HINKEL, Offenbach, Germany. Filed Jan. 3, 1930, Serial No. 418,194, and in Germany Jan. 26, 1929. 6 Claims. (Cl. 40—107.)

1. An indicating device of the kind described for displaying variable information, having at least two sets of indicating members which normally move together when the device is turned, said device comprising a main section and a section separable from the main section, one set



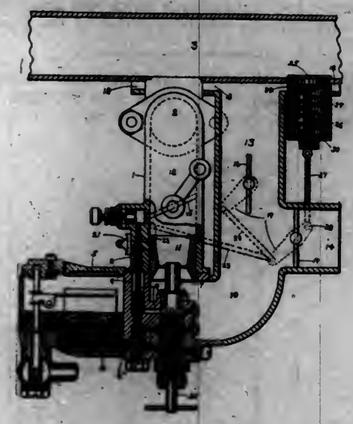
of the indicating members being in the separable section to be turned therewith to effect adjustment of the indications given by the two sets of indicating members.

1,753,787. PROCESS OF RECOVERING ALKALI-METAL XANTHATES. WILHELM HIRSCHKIND, Pittsburg, Calif., assignor to Great Western Electro-Chemical Company, a Corporation of California. Filed Nov. 28, 1924. Serial No. 752,806. 4 Claims. (Cl. 260—106.)

1. The process of obtaining alkali-metal xanthate in the form of a separable precipitate which consists in causing alcohol, caustic alkali and carbon disulphide to react to produce and precipitate a xanthate, and then causing a precipitation from the mother liquor of normally soluble potassium xanthate by the addition of a precipitant comprising an alkali-metal hydroxide, said precipitation bringing down a precipitate in excess of any precipitate due to mass action.

2. The process of obtaining in the form of a separable precipitate alkali metal xanthate, which consists in causing ethyl alcohol, caustic potash and carbon disulphide to react to produce and precipitate potassium xanthate, and adding caustic soda to precipitate a further quantity of potassium xanthate.

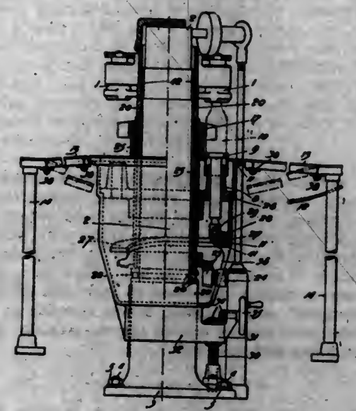
1,753,788. AUTOMATIC CARBURETOR CONTROL. WARREN T. HUNT, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 22, 1925. Serial No. 38,624. 8 Claims. (Cl. 123—122.)



1. In an internal combustion engine, the combination of a carburetor therefor, air and fuel ducts within said carburetor, a jet communicating with both ducts wherein

fuel and air are mixed, a valve for controlling the inlet to the air duct, hot and cold air pipes for said carburetor, a control valve within one of said pipes, an exhaust passage for the burned gases and means whereby the pressure head of the burned gases controls the air duct valve and the control valve within said air pipe.

1,753,789. CAPPING MACHINE. ANDERS JOSEF JONSSON, Linkoping, Sweden. Filed Apr. 17, 1928, Serial No. 270,777, and in Norway Feb. 22, 1928. 2 Claims. (Cl. 226—84.)



1. In a machine for applying caps to bottles, the combination with capping heads rotating about a central column, of a machine table having supports carrying the bottles and elevating them into said heads, a nave rotating with the latter about the column and carrying the supports for the bottles in upright positions, a frame supporting the nave and machine table, a conveyor for the bottles traversing a portion of the table, and an adjustment device for changing the elevation of the frame and with it the table, conveyor, nave and supports therefor.

1,753,790. METHOD OF PREPARING CONCENTRATED COD-LIVER OIL. KAMETARO KAWAI, Tokyo, Japan. Filed Sept. 28, 1926. Serial No. 138,389. 4 Claims. (Cl. 167—81.)

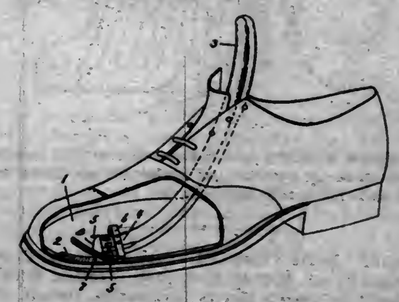
1. A method of preparing concentrated codliver oil, characterized by saponifying 50 to 75 per cent of the ordinary codliver oil by proper means and then separating and collecting the unsaponifiable matter from the saponified matter as much as possible.

1,753,791. NUT. BERNHARD F. KIESEL, Detroit, Mich., assignor to F. L. McLaughlin Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 27, 1927. Serial No. 228,990. 5 Claims. (Cl. 85—132.)



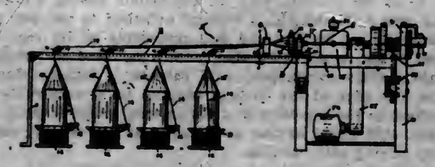
1. Means for structurally positioning a centrally bored and threaded nut body upon a laminary surface, comprising a unitary sheet metal wrapping applied about all of the lateral faces and about selected marginal portions of the end faces of the nut, the initially central portion of the sheathing adjacent one end of the nut being apertured with the edges of the sheathing surrounding the aperture extending outwardly for passage through, and locking engagement with, the laminary element with which the association of the nut is desired.

1,753,792. ART OF MAKING SHOES. EUCLID I. LA CHAPELLE, Brockton, Mass. Filed Apr. 17, 1929. Serial No. 355,785. 1 Claim. (Cl. 12—142.)



That improvement in the art of making shoes of the Goodyear welt type which consists in reducing the thickness of the marginal forepart portion of an insole in a shoe of that type by cutting off, from within the shoe, a portion of the said insole from a substantial distance of its edge face to and including part of its edge face.

1,753,793. CABLE-FORMING DEVICE. MARTIN H. LANG, Minneapolis, Minn. Filed Feb. 18, 1926. Serial No. 88,000. 23 Claims. (Cl. 153—64.)

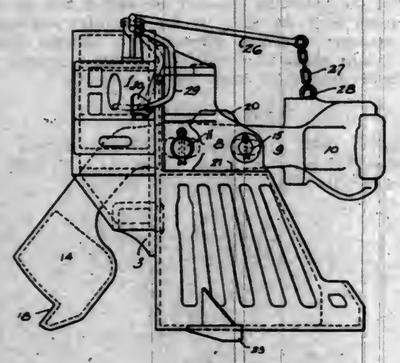


1. A cable forming device including, means for holding a series of wire strand feeding spools, means for directing the strands through a tension member, a forming head having a series of openings for receiving the individual strands and grooves positioned in a manner to cause the strands to pass through said head in a helical shape, a mandrel positioned within said head, and means for pulling the cable through said forming head.

1,753,794. DEFLECTING PILOT STRUCTURE. WILLIAM L. LENTZ, Tuckahoe, N. Y., assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware. Filed Aug. 22, 1927. Serial No. 214,600. 15 Claims. (Cl. 213—4.)

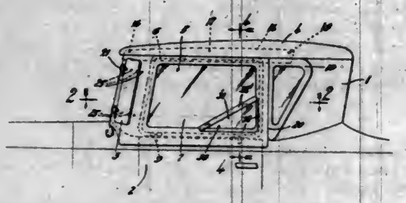
14. In combination, a locomotive pilot beam member, a pilot member mounted thereon, there being an opening extending through said members from back to front, a

coupler device extending through said opening and consisting of shank and counterbalance elements pivoted to



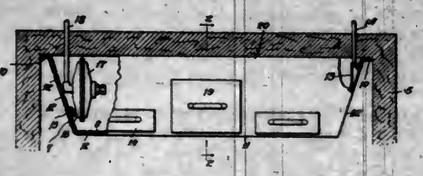
one of said members, said device being pivoted intermediate its ends for vertical and horizontal movement on its pivot and within said opening.

1,753,795. DOOR CURTAIN. CYRUS W. LINN, CLARE G. BIGELOW, and HARVEY O. RAICHE, Lansing, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 13, 1926. Serial No. 154,487. 4 Claims. (Cl. 296—139.)



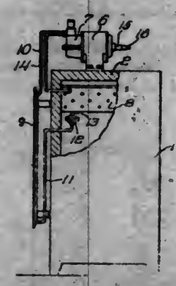
3. In combination with an automobile having a door, a top and a windshield, a valance attached to the top, permanently at its fore end and removably at its rear end and center, a noncollapsible curtain mounted on the door, said curtain overlapping said valance, a foldable flap at the fore edge of the curtain adapted to be removably attached to the windshield, a transparent panel in said curtain, said panel having an opening at one corner, and a flap closing said opening.

1,753,796. REFRIGERATION. THOMAS J. LITLE, JR., Detroit, Mich., assignor to Copeland Products, Inc., Detroit, Mich., a Corporation of Michigan. Filed June 17, 1926. Serial No. 116,618. 17 Claims. (Cl. 62—95.)



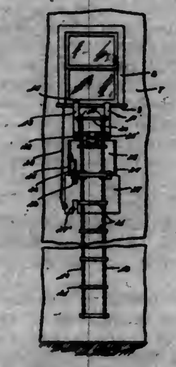
6. In combination, a refrigerator cabinet, and an expansion element therein cooperating with the walls thereof to form a freezing chamber, sealed against air circulation, between said element and certain walls of said cabinet.

1,753,797. REFRIGERATING MECHANISM. THOMAS J. LITLE, JR., Indianapolis, Ind., assignor to Copeland Products, Inc., Detroit, Mich., a Corporation of Michigan. Original application filed Sept. 18, 1926, Serial No. 136,357. Divided and this application filed Apr. 10, 1929. Serial No. 353,910. 8 Claims. (Cl. 62—115.)



1. In combination, a refrigerating system comprising a compressor, condenser and evaporator operatively connected together, a motor for driving said compressor, a thermostatically operated switch in series with said motor for controlling the operation thereof in accordance with the demands of said system, an inlet check valve for said compressor, a magnet positioned to open said check valve when energised, and switching means operable at will to place either said magnet or said thermostatically operated switch in series with said motor.

1,753,798. FIRE ESCAPE. CECIL E. MARTIN, Detroit, Mich. Filed Apr. 2, 1928. Serial No. 266,499. 2 Claims. (Cl. 228—42.)



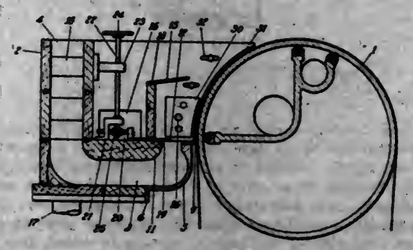
1. A fire escape of the class described adapted for use in connection with a building having a supporting portion, comprising: supporting members secured to said supporting portion and projecting downwardly therefrom in spaced relation; a bar connecting said supporting members adjacent their lower ends; a plate swingably mounted at one edge on said bar; side members projecting outwardly from one face of said plate at its opposite ends, the outer edges of said side members being curved; a curved cover plate swingably mounted on the free edge of said first mentioned plate and adapted for swinging into engagement with the curved edges of said side members; a flexible ladder mounted on said supporting members, said first mentioned plate being swingable into horizontal position and adapted for supporting said flexible ladder; an engagement member secured to and projecting upwardly and outwardly from the upper end of said supporting members; a notch bearing arm mounted on one of said side members and engageable with said engagement member for releasably locking said first mentioned plate in horizontal position.

1,753,799. SUCTION CLEANING APPARATUS. EUGENE F. MARTINET, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 15, 1927. Serial No. 198,957. 7 Claims. (Cl. 15—158.)



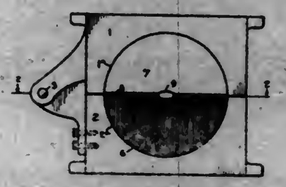
1. The combination with a suction cleaner nozzle of the class described, of a brush member adjustably positioned adjacent the mouth of said nozzle, an actuating member connected to said brush member and extending exteriorly of said nozzle, and a plate having a cam slot, with upper and lower locking branches, engaging said actuating member and adapted to lock said actuating member in two alternative positions to fully extend or fully retract said brush member.

1,753,800. VAT FOR PAPER-MAKING MACHINES. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Filed Mar. 30, 1928. Serial No. 266,018. 22 Claims. (Cl. 92—38.)



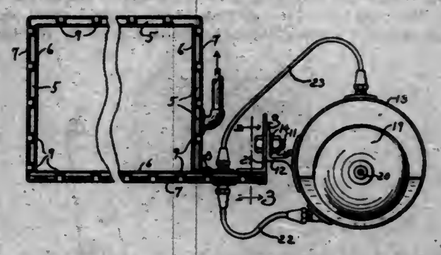
19. In combination with a vat for paper making machines, arcuate deckle holders provided with deckle recesses, deckles adapted to be seated in said recesses, means for adjusting said holders and deckles, means for securing them in adjusted position, and means for maintaining this selected adjustment.

1,753,801. THERMOMETER TUBE AND METHOD OF MAKING THE SAME. MAX E. MOELLER, Brooklyn, N. Y., assignor to A. E. Moeller Company, Brooklyn, N. Y., a Copartnership consisting of Charles E. Moeller, Max E. Moeller, Curt F. Moeller, Paul G. Moeller, Walter G. Moeller, and Otto J. Moeller. Filed July 5, 1928. Serial No. 290,565. 17 Claims. (Cl. 49—81.)



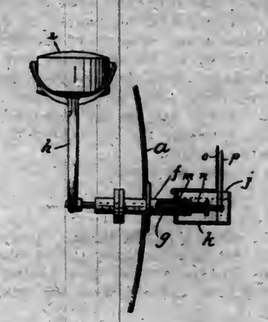
11. The herein described method of making glass thermometer stems which comprises molding the stem in sections with an interior bore for the reception of expansible fluid, uniting the two sections to form a continuous tube and embedding therein a strip of non-transparent material extending laterally from the sides of the bore to the edges of the stem and also incorporating in the stem back of the bore a colored backing element.

1,753,802. REFRIGERATING APPARATUS. GLENN MUFFLY, Detroit, Mich., assignor to Copeland Products, Inc., Detroit, Mich., a Corporation of Michigan. Filed Mar. 3, 1927. Serial No. 172,273. 2 Claims. (Cl. 62—8.)



1. In combination, a refrigerant container and an expansion chamber, a passage connecting the two, a bolt extending through apertures in co-operating brackets on the chamber and container, at least one of said apertures being elongated, and means for securing the bolt in the apertures to hold the chamber and container in adjustable assembly.

1,753,803. LEVEL INDICATOR FOR MINERAL-OIL STILLS. ARTHUR E. PEW, Jr., Bryn Mawr, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed June 19, 1925, Serial No. 38,184. Divided and this application filed Feb. 27, 1926. Serial No. 91,047. 2 Claims. (Cl. 73—82.)



1. The combination, with a vacuum still adapted to contain a pool of oil, of a device within the still movable by and in accordance with changes in the level of the oil, connecting means from said device extending through the wall of the still and movable with said device, a liquid level indicator located outside the still and operable by said connecting means, packing obstructing fluid communication with the interior of the still around said connecting means, a liquid seal container and a liquid seal therein blocking leakage of air around said connecting means through the packing, said liquid seal being exposed to the atmosphere.

1,753,804. SHALE PLANER. JOSEPH M. POWELL, Brooklyn, Ind. Filed Dec. 3, 1928. Serial No. 323,337. 2 Claims. (Cl. 262—28.)

1. A shale-bank planer comprising a chassis of the double track-laying type, a turn-table mounted on a vertical axis on said chassis, a tower carried by said turn-table, a driving shaft carried by said turn-table substantially at the ground level and in position to clear the track-laying elements of the chassis, an idler shaft carried

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at the upper end of the tower, an endless planer belt supported by said driving shaft and idler, guideways in the tower engaging the active run of the planer belt, an upwardly and rearwardly inclined chute carried by the turn-table with its lower end closely adjacent the planer belt drive shaft, an endless scraper element traversing said chute and engaging said drive shaft, means carried by the turn-table for applying power to said drive shaft through said scraper element, means carried by the turn-

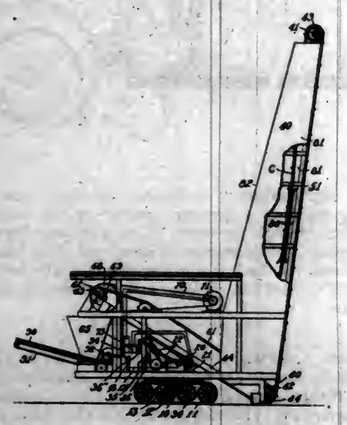
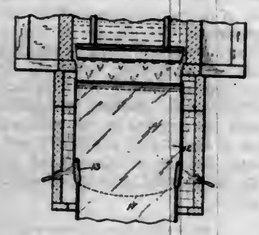


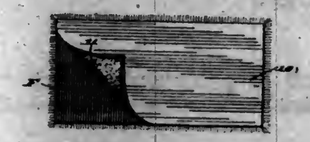
table for rotating said turn-table upon the chassis, means carried by the turn-table for controlling the application of power to the track-laying elements of the chassis, an endless conveyor carried by the turn-table and arranged to receive the discharge from the upwardly inclined chute, means for supporting said last-mentioned conveyor to swing about a vertical axis on the turn-table, and means carried by the turn-table for controlling the application of power to said conveyer.
of said power to said conveyor.

1,753,805. DOWN-FLOW SLAB. JOSEPH A. REECE, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 9, 1924. Serial No. 742,640. Renewed June 15, 1928. 18 Claims. (Cl. 49—17.)



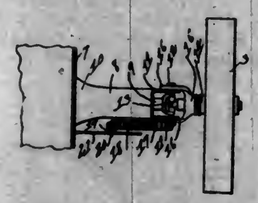
11. The process of forming sheet glass consisting in flowing a plurality of streams of glass downwardly, uniting the streams to form a sheet, and in curling the edge portions of the streams to maintain the sheet to width, the curled edges of one stream extending in a direction opposite to the direction of the curled edges of the other stream.

1,753,806. PROCESS FOR MAKING LAMINATED FABRIC. EDWARD A. ROSS, Chicago, Ill. Filed June 27, 1929. Serial No. 374,153. 4 Claims. (Cl. 154—2.)



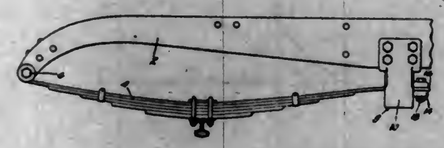
4. The method of reenforcing a pelt, which consists in providing a crinoline protected adhesively coated leather backing, stripping the crinoline from same, and securing said backing by means of heat and pressure to the skin side of the pelt.

1,753,807. LEVELING DEVICE FOR TRACTORS. FREDERICK E. SHARP, Prescott, Wash. Filed May 3, 1928. Serial No. 276,041. 1 Claim. (Cl. 180—41.)



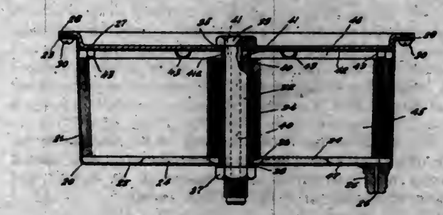
In a leveling device for tractors, the combination with a tractor having an axle, and provided with drive wheels, a boss rigidly secured to and extended from said tractor, and disposed to provide a bearing for the outer end of said axle, said boss terminating at its outer end in extended lips providing horizontally disposed and oppositely positioned pivotal bearings, a housing provided with complemental lips pivotally mounted in the bearings of said extended lips, a universal joint rigidly secured to the end of said axle, and positioned on the pivotal line and within said lips, and provided with a stub axle adapted to carry the drive wheels, a gear sector rigidly secured to said housing for movement with that member, and centered at the pivotal point, and means rotatably carried by the boss to register said sector gear and to operate said gear to rotate said stub axle in a vertical plane.

1,753,808. SPRING SHACKLE. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 9, 1926. Serial No. 100,892. 6 Claims. (Cl. 267—30.)



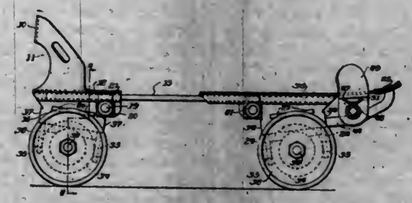
1. In an automobile spring suspension, the combination of a frame, a leaf spring, an annular bracket secured to the frame having an opening of substantially uniform diameter throughout and extending in alignment with the longitudinal plane of the spring, a rubber bushing secured in the opening in said bracket, and a spring end connecting member secured in said bushing, in concentric relation with the bracket, and to which one end of said leaf spring is rigidly secured.

1,753,809. OIL FILTER. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 28, 1926. Serial No. 125,451. 3 Claims. (Cl. 210—164.)



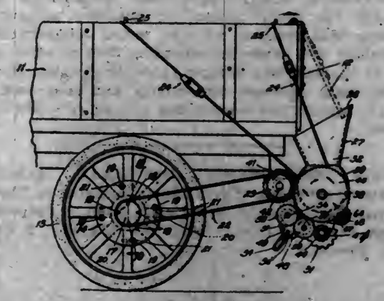
3. In a filter, a filtering material therein, a cover for said filter positioned closely adjacent said material, a flat separating ring between said cover and filtering material, and a plurality of projections on said ring to hold said material away from said cover.

1,753,810. ROLLER SKATE. THOMAS SPACIE, Chicago, Ill. Filed June 25, 1926, Serial No. 118,442. Renewed Feb. 28, 1930. 9 Claims. (Cl. 208—173.)



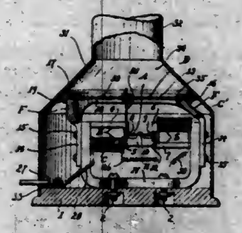
1. In a roller skate, the combination of a wheel frame, a sole plate, a toe clamp, a clamp screw and a brace bar connected to the sole plate and to the wheel frame, and underlying said screw.

1,753,811. ROAD-MATERIAL SPREADER. FRANK C. STOLLE, Webster Groves, Mo., assignor to Stolle Road Equipment Co., St. Louis, Mo., a Corporation of Missouri. Filed Feb. 29, 1928. Serial No. 257,907. 2 Claims. (Cl. 275—2.)



1. In a device of the character described, a mixing chamber, a spreader, said spreader positioned relative to said mixing chamber so that material placed in said mixing chamber will be fed on to said spreader, a gear mounted on said spreader to rotate the same, a gear secured to said mixing chamber, a driving gear in mesh with the gear on said mixing chamber, an auxiliary pair of gears in mesh with each other and in mesh with the gear on said spreader and means for selectively placing each gear of said pair of gears in mesh with the gear on said mixing chamber.

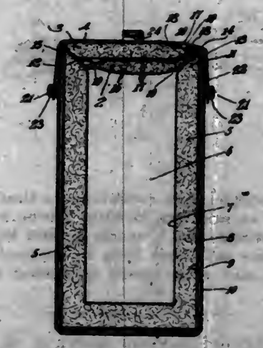
1,753,812. LOUD-SPEAKING TELEPHONE RECEIVER. ADOLPH ALEXANDER THOMAS, New York, N. Y. Filed July 3, 1922, Serial No. 572,730. Renewed Aug. 10, 1929. 23 Claims. (Cl. 179—119.)



7. In a telephone receiver, a magnet having a pair of upstanding limbs, opposite pole pieces projecting inwardly from said limbs substantially in alignment with each other, a support comprising a pair of non-magnetic plates secured to said pole pieces at opposite sides thereof, an armature centrally pivoted on said support and extending lengthwise from one pole piece to the other, electromagnetic means for producing vibration of said armature about its pivot, and a diaphragm connected to said armature.

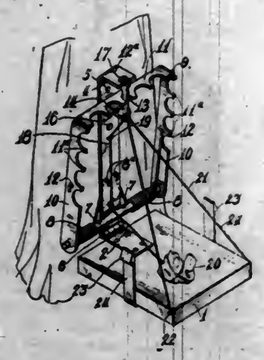
19. In a loudspeaker, a magnet structure having two pairs of spaced polar projections arranged to provide a pair of aligned air-gaps, non-magnetic brackets fixed to said polar projections, a centrally pivoted armature arranged between said brackets and extending into said airgaps, a coil mounted in operative relation to said polar projections to cause vibration of said armature, a pair of diaphragms mounted on opposite sides of said polar projections, and means for connecting said armature to said diaphragms.

1,753,813. HEAT-INSULATING JACKET. RICHARD C. WASHBURN, Saugerties, N. Y., assignor to Montgomery-Washburn Company, Saugerties, N. Y., a Corporation of New York. Filed Oct. 25, 1926. Serial No. 143,919. 9 Claims. (Cl. 150—52.)



1. A heat insulating jacket including a body having a heat insulating wall presenting a yieldable beveled top, an inner closure having a yieldable portion beveled to correspond to the bevel on said beveled top, and an outer closure having a yieldable portion beve'ed to correspond to the bevel on said beveled top, said inner and outer closures being movable relative to each other and of such a size that the beveled portions of the inner closure will seat on the lower parts of said beveled top and the beveled portions of the outer closure will seat on the upper parts of said beveled top.

1,753,814. TRAP. FRITZ WELLER, Bonn, Germany, assignor to Paul Von Dey, Chicago, Ill. Filed July 9, 1928, Serial No. 291,211, and in Germany Sept. 9, 1927. 4 Claims. (Cl. 43—81.)



1. In a device of the character described, the combination of a base, an upright support hingedly connected with said base, a pin loosely suspended from the upper end of said support, a striking element under the control of springs and pivotally associated with said support, the pin being adapted to obstruct the path of the striking element to hold it in raised position, and a plurality of flexible means each of which is adapted for moving the suspended pin out of the path of said spring controlled striking element.

1,753,815. MEAT FORK. ALBERT T. WOODS, Placerville, Colo. Filed May 11, 1929. Serial No. 362,189. 4 Claims. (Cl. 294—53.)



1. A bone gripping fork comprising: a tined fork member, a handle on said fork member, a bone hook pivoted to said fork member and a handle on said bone hook arranged to cause said bone hook to approach said fork member when said latter handle is clamped toward said first handle.

1,753,816. PRODUCTION OF MONTAN WAX. FRITZ ZSCHOCH and HERBERT RODDIAN, Unterroblingen, Germany, assignors to A. Riebeck'sche Montanwerke Aktiengesellschaft, Halle, Saale, Germany. Filed Mar. 13, 1928, Serial No. 261,406, and in Germany Sept. 16, 1927. 11 Claims. (Cl. 196—17.)

1. Process for obtaining refined montan wax which comprises extracting the resinous constituents from raw montan wax, digesting the remaining wax, in presence of a solid adsorbent decolorizing material, with oxygenated organic solvents not easily dissolving the oxy-acids contained in the raw montan wax, separating the resulting wax solution from the adsorbent, and separating the refined wax from the solution.

1,753,817. AUDIPHONE. JOHN C. ABER, Butler, Pa. Filed Sept. 14, 1928. Serial No. 306,054. 9 Claims. (Cl. 179—182.)



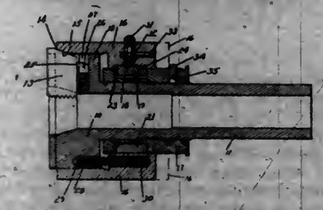
1. The combination with the base of an audiphone receiver, of a cap therefor having a horn-like extension curved upwardly and rearwardly and shaped to fit behind the upper forward portion of the helix of an ear.

1,753,818. VALVE. HENRY E. BRETT, Los Angeles, Calif., assignor to John A. Yerkes, Long Beach, Calif. Filed Mar. 6, 1926. Serial No. 92,805. 10 Claims. (Cl. 121—157.)



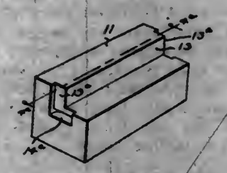
1. A valve for engines, comprising a cylinder provided with fluid passages for communication with the ends respectively of the engine cylinder and provided with an inlet and an outlet, a valve rod, a plunger mounted to reciprocate in said cylinder and through which plunger the engine valve rod extends means on the valve rod for reciprocating said plunger, said plunger including means for controlling said passages when reciprocated to reciprocate the engine piston, an auxiliary plunger surrounding said plunger, whereby initial reciprocation of the plunger will cause the operating fluid to effect movement of the auxiliary plunger to establish communication between said passages respectively and said inlet and outlet to permit fluid to enter and exhaust from the engine cylinder.

1,753,819. SELF-OPENING DIE HEAD. ALBERT F. BEREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Company, New Haven, Conn., a Corporation. Filed Sept. 16, 1926. Serial No. 135,755. 2 Claims. (Cl. 10—95.)



1. A self-opening die-head having a body, radially-movable chasers, a chaser-operating member having chaser-closing, chaser-retracted, and chaser-clearance positions, a locking-member therefor, an adjusting-nut threaded upon the said body and provided with a peripheral slot, an inwardly-yielding stop-member located in the said slot and normally projecting therefrom beyond the periphery of the said adjusting-nut for engagement by the said operating-member to stop the same in its chaser-retracted position and shaped and proportioned to be manually pressed inward below the periphery of the said adjusting-nut to release thes aid member to permit it to move into its chaser-clearance position, and spring means for yieldingly urging the said stop-member into its projected position.

1,753,820. WALL CONSTRUCTION. STANLEY BROZEK, Detroit, Mich. Filed Aug. 7, 1929. Serial No. 384,015. 1 Claim. (Cl. 72—21.)



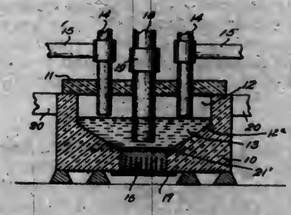
A solid block for building a wall having a brick facing, said block having a height approximating the combined height of a plurality of bricks, said block being provided upon one upper corner with a brick receiving recess extending throughout the entire length of the block and being approximately one-half of the width of the block and having a depth approximately equal to the height of the brick, said block being provided in its ends with vertical slots which extend through the top of the block, said slots terminating near and beneath the bottom wall of the brick receiving recess, said slots passing through the vertical and horizontal walls of the brick receiving recess and leading into the ends of said recess, the ends of the block having finger holes at the lower ends of the vertical slots, are arrangement being such that the hands may be inserted in whole or in part within the brick receiving recesses and the fingers passed through the vertical slots to enter the finger holes.

1,753,821. PRINTING PRESS. WILLIAM C. BUCHANAN, Franklin, Mass., and WILLIAM O. TOURJEE, Providence, R. I., assignors to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 10, 1926. Serial No. 115,075. 25 Claims. (Cl. 101—287.)



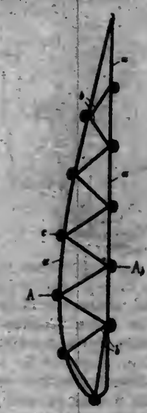
1. Apparatus of the character described including in combination a platen press, a portable sheet handling mechanism supported independently of said press, said press having electric, pneumatic, and mechanical power sources, elements on said mechanism adapted to automatically connect with said sources when the mechanism is attached to the press, and means for detachably locking said mechanism to said press.

1,753,822. FURNACE FOR REDUCING METALS. GEORGE C. COX, Raleigh, and HENRY K. MCINTYRE, deceased, Raleigh, N. C., by Edna Moore McIntyre, executrix, Raleigh, N. C.; John Gardner McIntyre, New York, N. Y.; and Malcom McIntyre, Cranford, N. J., executors. Filed Oct. 5, 1926. Serial No. 139,750. 2 Claims. (Cl. 204—5.)



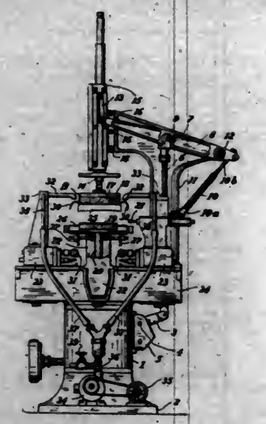
1. An electric furnace comprising a closed electrolyte chamber, the bottom portion of the chamber sloping toward a low portion, a cathode at the bottom of the low portion, an anode located above the cathode, the cathode and anode being the direct current electrolytic electrodes, alternating current electrodes for supplying current energy to provide heat for maintaining the electrolyte at the optimum temperature and having their inner ends over the sloping portions, the alternating current and direct current electrodes being separate and distinct from each other.

1,753,823. METAL ENVELOPE FOR AIRCRAFT PLANES. CLAUDIUS DORNIER, Friedrichshafen-on-the-Bodensee, Germany, assignor of one-half to the Firm: Dornier Metallbauten Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed Nov. 27, 1922, Serial No. 603,638, and in Germany Dec. 12, 1921. 5 Claims. (Cl. 244—31.)



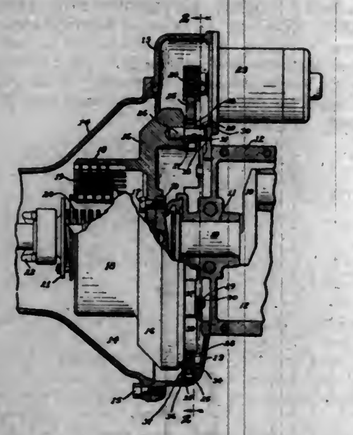
1. A wing construction for airplanes comprising an envelope composed of a plurality of solid sheet metal strips having stiffening means extending outwardly of the surface and longitudinally of the wing, said means constituting air resistance elements acting to increase the carrying capacity of the airplane when in flight.

1,753,824. METHOD OF AND APPARATUS FOR WRAPPING BOXES. THEODORE A. FEDERWITZ, Philadelphia, Pa., assignor to Stokes & Smith Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 12, 1929. Serial No. 339,426. 22 Claims. (Cl. 93—54.)



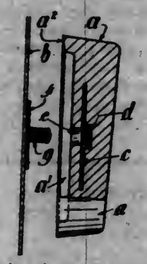
1. The method of wrapping a box which comprises moving a box and a wrapper along a path, at a point or region in said path folding a portion of the wrapper into engagement with a box wall, and applying a force to another wrapper portion to prevent movement thereof into the path of movement of the first portion during said folding operation.

1,753,825. ENGINE. HENRY FORD, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a Corporation of Delaware. Filed Feb. 13, 1928. Serial No. 253,908. 2 Claims. (Cl. 74—7.)



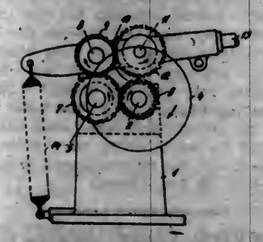
1. In a device of the character described, a flywheel housing having a portion of its interior machined to circular shape and shoulders formed adjacent to said circular portions, a flywheel mounted in said housing concentric with said machined portion, a starting motor mounted on said housing, a gear on said starting motor, a ring shaped gear member journalled in said housing by the engagement of the teeth thereon with the machined and shouldered portions of the flywheel housing, said teeth being in constant mesh with the gear on the starting motor, and means connecting said ring gear member with the flywheel, said means automatically disconnecting said gear member and flywheel when the latter overruns the gear member.

1,753,826. KNEE GRIP FOR MOTOR BICYCLES. LUCIEN GAISMAN, Audenshaw, near Manchester, England. Filed Feb. 4, 1929, Serial No. 337,462, and in Great Britain Feb. 25, 1928. 5 Claims. (Cl. 208—139.)



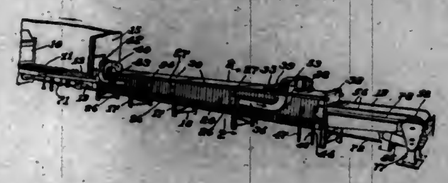
1. Rubber knee grips for motor bicycles provided with an intermoulded metal plate and means by which the plate and grip may be secured to the cycle tank, and the grip being formed so as to allow of its central part being drawn towards the cycle tank after its outer periphery has come into contact with the tank, and thus cause the working face of the grip to be dished—or if already slightly dished to be further dished.

1,753,827. TUBE-CUTTING MACHINE. OTTO GLÄSSER and ERNST FLEMNITZ, Lubeck, Germany, assignors to the Firm: L. Schuler A.-G. Werkzeugmaschinenfabrik, Goppingen, Wurttemberg, Germany. Filed Nov. 30, 1927, Serial No. 236,703, and in Germany Dec. 1, 1926. 8 Claims. (Cl. 164—69.)



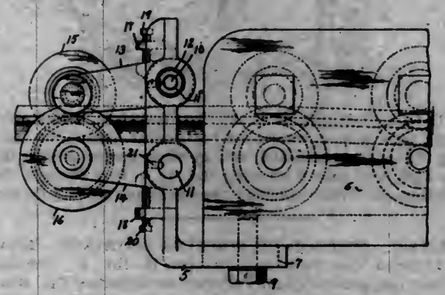
1. A tube-cutting machine comprising a frame, a driving shaft in said frame, a rocking carrier fulcrumed on said frame, a shaft supported on said carrier, one of said shafts being adapted to support a tube blank, means on said shafts for operatively connecting said shafts in a given position of said carrier with respect to said driving shaft, a cutter on one of said shafts, a cutter on the other shaft so arranged with respect to said first-mentioned cutter that the cutting edges of both cutters are registering, and an annular resilient pad on said blank-supporting shaft adapted to be engaged by the cutter on the other shaft.

1,753,828. CONFECTIONERY-COOLING TUNNEL. JESSE W. GREER and FREDERICK W. GREER, Cambridge, Mass. Filed June 28, 1927. Serial No. 202,149. 4 Claims. (Cl. 34—12.)



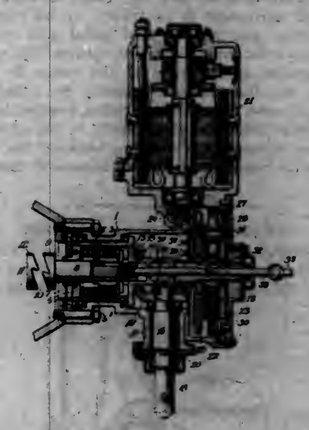
1. A cooling tunnel for cooling confections, comprising in combination, an elongated casing which is closed to the atmosphere and provided with a lower air passage and an upper air passage, means for advancing confections through the casing, blowers arranged near the opposite ends of the tunnel externally of the casing, air conduits between said air passages and blowers for forcing air from one passage to the other and arranged to introduce air into the upper passage and remove it therefrom through the top of the casing, and means for cooling the circulating air.

1,753,829. MACHINE FOR FORMING STRIPS FOR STORE-FRONT CONSTRUCTION. FRED HIMMEL and ISIDORE HIMMEL, New Haven, Conn., assignors to The Himmel Brothers Co., New Haven, Conn., a Corporation. Filed May 1, 1929. Serial No. 359,530. 2 Claims. (Cl. 153—54.)



1. Means for overcoming tendency to curvature or to cause curvature in strips of metal, comprising a bending machine bed, a frame adjustably mounted on said bed, yokes adjustably mounted in said frame, complementary rollers mounted in said yokes, and means for effecting upward or downward movement of said yokes.

1,753,830. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Oct. 9, 1926. Serial No. 140,458. 8 Claims. (Cl. 123—179.)



1. An engine starter including a drive having a driving member adapted to engage and crank a member of the engine to be started, manually operated starter means operatively connected with said drive, power means for imparting cranking movement to said drive and operating connections between such power means and the drive including means for disconnecting the power means responsive to cranking operation of the manual means for preventing said drive from driving the power means.

1,753,831. CONCRETE MIXER. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed June 9, 1927. Serial No. 197,593. 5 Claims. (Cl. 83—73.)



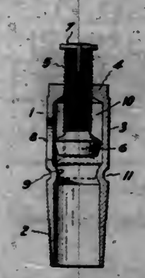
1. In apparatus of the class described, the combination, with a relatively narrow sub-frame, of a relatively wide auxiliary frame disposed upon said sub-frame adjacent one end thereof, and extending laterally beyond opposite sides of the sub-frame, a mixing machine mounted upon said end of the sub-frame and about which the auxiliary frame extends, said auxiliary frame forming a support for the super-structure of said machine, and means rigidly securing the ends of the auxiliary frame to said subframe.

1,753,832. COLLAR CLASP. ALLAN A. MACDONALD, Glen Ridge, N. J., assignor to Sloan & Company, Newark, N. J., a Corporation of New Jersey. Filed July 2, 1929. Serial No. 375,454. 3 Claims. (Cl. 24—81.)



1. A jewelry clasp for collars and the like comprising, oppositely extending resilient tongues of sinuous form having apertures therewithin, a substantially rigid member fixedly attached at its central portion to the inner ends of said resilient tongues, said member extending in the general direction of said tongues, and gripping means provided on said member and adapted to project into said apertures for cooperating with the latter and with said resilient tongues in gripping the parts connected by said clasp.

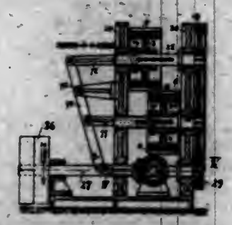
1,753,833. VALVE AND METHOD OF MANUFACTURING SAME. ERVIN H. MUELLER, Detroit, Mich. Filed Apr. 4, 1929. Serial No. 352,449. 5 Claims. (Cl. 29—157.1.)



1. The method of manufacturing shut-off valves which consists in providing a body devoid of any valve seat, and providing a valve and valve stem, inserting the valve and valve stem through the open end of the body to be closed by the valve, and thereafter forming a seat on the body for said valve.

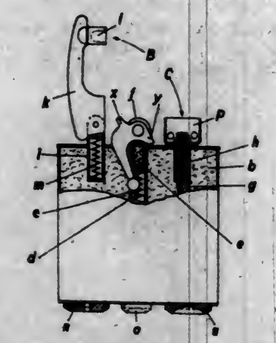
4. A valve comprising a hollow body open at one end and provided with an integral end wall at its opposite end, said wall being formed with a screw threaded opening, a valve, a screw threaded valve stem projecting outwardly through the screw threaded opening in the end wall, and a seat for the valve formed integral with the wall of the body between said valve and the open end of the body, said seat being formed after the insertion of said valve in said body, by distorting the metal of the body to form an interior annular rib.

1,753,834. MACHINE FOR PRODUCING SEAMLESS BODIES, SWEETMEATS, AND OTHERS FROM PLASTIC MASSES. MAX PONISCH, Leipzig-Leutzsch, Germany. Filed June 2, 1926, Serial No. 113,263, and in Germany June 15, 1925. 2 Claims. (Cl. 107—20.)



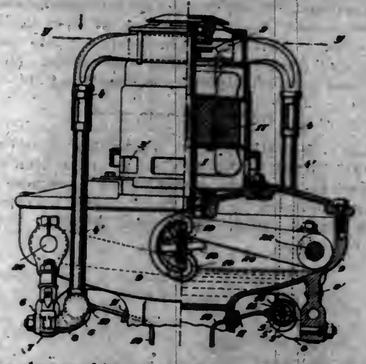
1. A machine for manufacturing seamless bodies from a plastic mass, having side walls comprising in combination two shafts having means to be uniformly driven and mounted in the side walls of the machine at different distances, sprocket wheels shiftably connected with said shafts, endless chain-like elements consisting of joined links carried and actuated by said sprocket wheels for movement in the same longitudinal direction, said links having open molding grooves forming together at the working point full hollow cylinders, and driving elements to be actuated from an intermediate shaft and connected to the front sprocket wheels by means which will give to these sprocket wheels besides the rotating movement an additional shifting movement in axial direction, the shifting movement of the upper spur wheel being oppositely directed to the shifting movement of the lower spur wheels.

1,753,835. PYROPHORIC HAND LIGHTER. KARL FRIEDRICH PROJAHN, Aschaffenburg, Germany, assignor to the Firm: Löwenthal & Weissberger G. m. b. H., Frankfort-on-the-Main, Germany. Filed Dec. 18, 1928, Serial No. 326,748, and in Germany May 25, 1928. 2 Claims. (Cl. 67—7.1.)



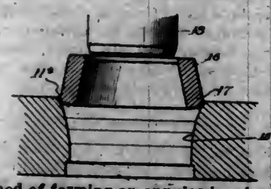
2. A lighter comprising a box with a top and sides, a wick at the top of the box, a spark-producing device on the top of the box, including a rotary friction element and a shaft extending crosswise of the box, a handle mounted on said shaft extending downward adjacent the side of the box, a coil spring located between the handle and said rotary friction device, the handle having an arm extending across the top of the box with which said spring engages, an arm carrying a wick-covering cap pivoted to the top of the box, said handle arm having a portion in position to engage the underside of said arm to raise the arm when the handle is moved to wind the spring, a spring device extending from said arm adjacent its pivot downward into the box through the top thereof, said arm having surfaces acted on by said spring device in alternation to hold the arm in either wick-covering or wick-uncovering position.

1,753,836. SHOE MACHINE. JULIUS SANDT, Pirmasens, Germany. Filed Apr. 12, 1929, Serial No. 354,563, and in Germany Apr. 3, 1928. 4 Claims. (Cl. 12—78.)



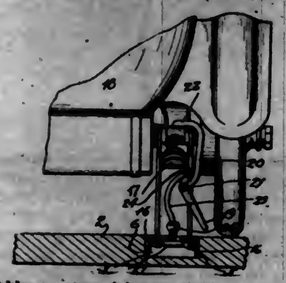
1. In a shoe-machine of the class described, a tool operating upon a shoe, means for heating air, means for heating the tool by the heated air, an electromotor driving the machine, and means allowing the air to flow through the electromotor before reaching the means for heating the air.

1,753,837. METHOD OF FORMING BEARINGS. LOUIS J. SAUER, Oak Park, and CHARLES H. JOY, Jr., Chicago, Ill., assignors to Charles H. Joy, sr., Chicago, Ill. Filed Oct. 22, 1926. Serial No. 143,490. 13 Claims. (Cl. 29—149.5.)



1. A method of forming an annular bearing member comprising forming a collar from sheet metal, inserting a cylindrical forming member into said collar in such manner that its axial movement is controlled by its engagement with said collar and forcing said collar and cylindrical forming member through a die, and during this operation exerting pressure on the edge of the collar to force it through the die, the distance between the adjacent surfaces of the die and cylindrical forming member being less than the average thickness of the metal in the collar before the operation, whereby the distance between the edges of the collar is increased as the collar is pushed through the die.

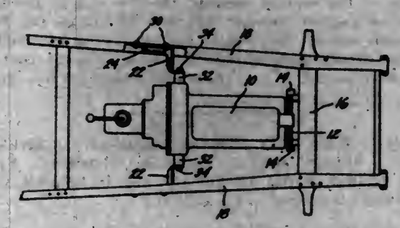
1,753,838. NONADJUSTABLE HOLDDOWN. FAY L. SEELEY, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Filed June 3, 1920. Serial No. 388,002. 11 Claims. (Cl. 105—368.)



1. A holddown comprising a rigid nonextensible member engaged with the spring of a motor vehicle when compressed and at the same time interlockingly engaged with a support.

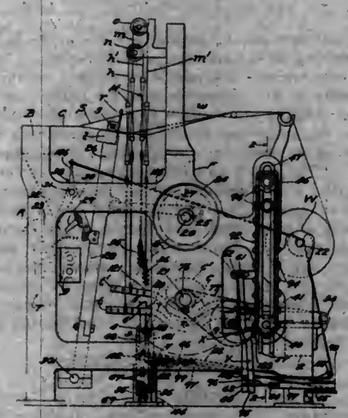
2. A holddown comprising an inverted U-shaped member adapted for engaging a part of an automobile and having side legs, an anchor member with which the lower ends of the legs are engaged, enlarged heads at the lower ends of the legs, and the anchor member having slots therein to receive the enlarged heads and restricted portions in the slots to prevent withdrawal of the holddown legs.

1,753,839. REAR MOTOR SUPPORT. OWEN B. SKELTON, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a Corporation of Delaware. Filed Sept. 18, 1926. Serial No. 136,358. 4 Claims. (Cl. 180—64.)



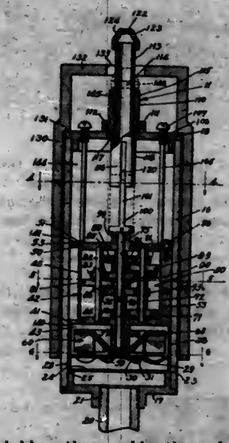
1. A resilient motor suspension comprising in combination, a frame, a spring supporting the front end of the motor at a single point, and a pair of lateral supports at the rear of the motor, each having a single arm connecting the adjacent sides of said motor and frame respectively, said arm being reinforced against flexure in horizontal and vertical planes and susceptible of torsional flexure about an axis longitudinal thereof.

1,753,840. LOOM. JOSEPH THEXTON, Jr., and HENRY TOMLINSON, Fall River, Mass., assignors of one-fourth to Joseph E. Freeling and one-fourth to Frank Riley, Fall River, Mass. Filed Feb. 1, 1928. Serial No. 251,153. 24 Claims. (Cl. 139—24.)



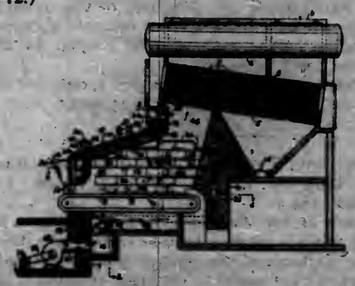
5. In combination with a four harness loom including two pairs of harnesses adapted to weave plain cloth, mechanism whereby the loom is adapted to form checks and broken stripes, said mechanism including two treadles connected respectively to the two pairs of harnesses, one pair of harnesses being connected to all of the warp threads except those which form the stripes, one of the other pair of harnesses being connected to only the warp threads which form the stripes, the other harness of said second pair being yieldingly connected to a fixed support, means for actuating the treadles in opposite directions to each other, means for restraining the first set of harnesses after predetermined periods of plain weaving to permit the laying of a predetermined number of picks to form a bar, means whereby the restraint on the harness is released after laying the predetermined number of picks, means for restraining the second set of harnesses intermittently, said periods of restraint on the second set of harnesses permitting the laying of a plurality of picks on one face of the warp stripes, means for releasing the restraint on the second set of harnesses while a series of single picks are being laid on the upper bar of the warp stripes.

1,753,841. SPRINKLER HAVING PROJECTABLE NOZZLE. WALTER VAN E. THOMPSON, Los Angeles, Calif., assignor to Thompson Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed May 25, 1925. Serial No. 32,621. 11 Claims. (Cl. 299—61.)



1. In a sprinkler, the combination of: a shell; means for supplying water to said shell; an impeller plate carried in said shell; a rotor arranged adjacent to said impeller plate; a rotor shaft carrying said rotor; a drive shaft; gear mechanism connecting said rotor shaft with said drive-shaft; a drive member carried by said drive-shaft; and a projectable nozzle plunger carried by said shell, said nozzle plunger being driven by said drive member, but being axially movable relative thereto.

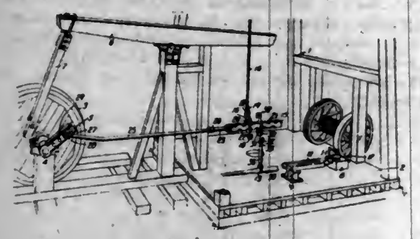
1,753,842. FURNACE CONSTRUCTION. FRANK H. WAITE and GEORGE W. DAVEY, Long Island City, N. Y. Filed Nov. 13, 1925. Serial No. 68,878. 4 Claims. (Cl. 110—72.)



1. A furnace construction comprising, in combination, channelled refractory walls and a channelled refractory

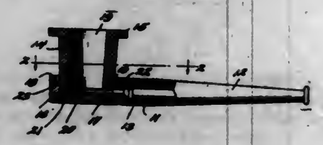
roof forming a combustion chamber, means for admitting fuel to the chamber, an offtake therefrom, a forced draft creating means, air inlet means and outlet means for the channel system of said roof, separate air inlet and outlet means for said wall channels, direct air delivery means from said drafter to said chamber; and means connecting said roof and wall channel systems with said drafter forming indirect air delivery means whereby air from the inlets is forced through said systems, for preheating it and cooling the refractories, and by way of said outlets to the chamber.

1,753,843. TOOL-DRESSING APPARATUS. CLARENCE G. WARREN, Kellyville, Okla., assignor to George Krell, Sapulpa, Okla. Filed Feb. 27, 1928. Serial No. 257,206. 10 Claims. (Cl. 76—5.)



1. Tool dressing apparatus including a ram line, a bar supported by the line, a ram suspended from the bar, means for actuating the bar to operate the ram, and means for adjusting the ram transversely of the line.

1,753,844. TOBACCO-SMOKING PIPE. POWHATAN A. WEBB, Atlanta, Ga. Filed Mar. 15, 1928. Serial No. 261,861. 7 Claims. (Cl. 131—12.)



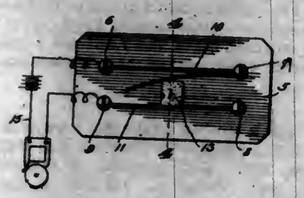
2. In a tobacco pipe, in combination, a bowl and a stummel, a circumferential flange at the bottom of said bowl adapted to be grasped to hold the pipe and an annular draft passage within said flange adapted to have atmospheric air drawn therethrough to cool said flange.

1,753,845. FABRIC FOR TECHNICAL PURPOSES. EDUARD V. ASTEN, Eupen, Belgium, and HAROLD NEWLIN HILL, Philadelphia, Pa., assignors to Von Asten & Cie., Societe en Commandite, Eupen, Belgium, a Corporation of Belgium. Filed June 16, 1928. Serial No. 286,062. 5 Claims. (Cl. 139—420.)

1. A fabric for drier felts, laundry aprons and the like made up of textile elements including agave.

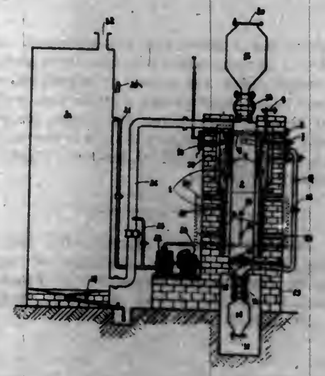
1,753,846. SWITCH. WILLIAM PAUL BRAND, Muskegon, Mich. Filed Dec. 1, 1925. Serial No. 72,560. 1 Claim. (Cl. 200—142.)

A switch of the class described, including a base, a wide flat contact member secured to the base, the upper and lower surfaces of the contact member being disposed in a plane at right angles to the upper surfaces of the base to provide a supporting surface, a contact member secured to the base and disposed in parallel spaced relation with the first mentioned contact member, bolts for securing the contact members to the base, the last mentioned contact member being formed of resilient material and bent around one of the bolts at a point intermediate



the end of the contact member, the free end of the last mentioned contact member adapted to engage the first mentioned contact member to complete a circuit, and a block of fusible material positioned between the contact members to normally hold the contact members separated.

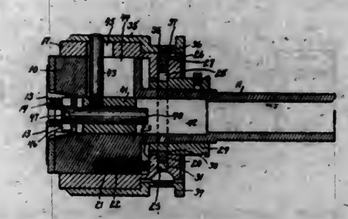
1,753,847. GAS AND STEAM PRODUCER GENERATOR. JULIEN BELLAY, Brussels, Belgium. Filed Aug. 1, 1927, Serial No. 209,917, and in Belgium Aug. 11, 1926. 2 Claims. (Cl. 122—5.)



1. A combined generator-producer for producing water gas, comprising in combination, a producer retort, a steam boiler concentrically disposed with respect to the retort and forming a free space between the boiler and retort, means for feeding the fuel to the retort, and means for removing the ashes and the like from the retort without interrupting the working, a connection between the steam chamber of the boiler and the bottom part of the retort for injecting steam within the fuel in the retort, a gas reservoir or tank for receiving the water gas evolving from the retort, a connecting duct between both retort and water gas reservoir, burners radially crossing the walls of the part which surrounds the free space between boiler and retort and opening into said space for heating the retort and boiler from outside, and means connecting the retort chamber and the burners for feeding the burners and starting the device.

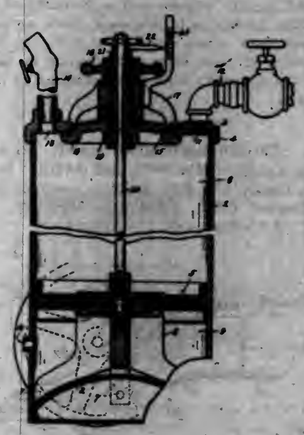
1,753,848. SELF-OPENING DIE HEAD. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Co., New Haven, Conn., a Corporation. Substitute for application Serial No. 129,868, filed Aug. 18, 1926. This application filed May 18, 1928. Serial No. 278,837. 1 Claim. (Cl. 10—95.)

A self-opening die-head having a body formed with a central longitudinal bore and with a radial clearance-passage intersecting the same, radially-movable chasers mounted in the forward end of the said body, a non-rotary chaser-operating sleeve axially-movable upon the said body and formed with a radial clearance-passage registering with the said radial clearance-passage in the said body, a non-rotary tripping-sleeve axially movable upon the said operating-sleeve and adapted to co-act with an abutment external to the fixture, spring-means for normally urging the chaser-operating sleeve into its chaser-retracted position, a locking-member for holding the said chaser-operating sleeve in position for maintaining the chasers in their cutting positions, a bushing having bearing in the bore of the said body and axially movable therein and itself having a central longitudinal passage intersected by a radial threaded bore, a tripping-rod lo-



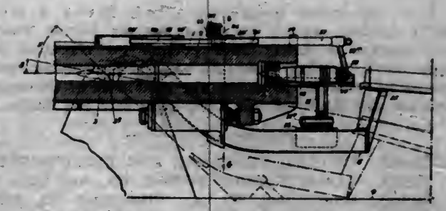
cated in the passage of the said bushing and adjustably slidable therein, and a radially-arranged coupling-screw having its inner end threaded into the threaded bore of the bushing for engagement with the said tripping-rod for clamping the same in position in the bushing and extending radially outwardly through the clearance-passages in the said body and operating-sleeve and into the tripping-sleeve through the periphery of which it is available for being turned to clamp and release the said tripping-rod, whereby the tripping-sleeve and tripping-rod are connected together and the latter may be clamped and released for its adjustment from the outside of the tripping-sleeve, and whereby chips and dirt are excluded from between the sleeves of the die-head.

1,753,849. GREASE DISPENSER. CONRAD R. BUCHET, Los Angeles, Calif., assignor to National Air-Lub Products Incorporated, Los Angeles, Calif. Filed Jan. 18, 1927, Serial No. 161,814. Renewed Jan. 17, 1929. 3 Claims. (Cl. 184—39.)



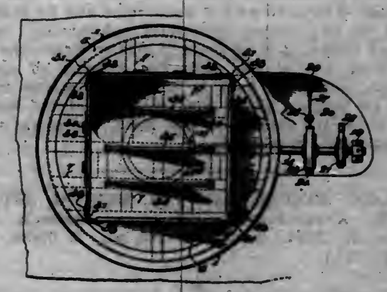
1. A grease dispenser comprising a cylinder, a piston mounted to reciprocate in said cylinder, a piston stem, said cylinder having a fluid pressure inlet below said piston and a grease inlet and a grease outlet above said piston, the head on the upper end of said cylinder having an opening therein, a cap for engaging the inner side of said head over said opening, a spanner engaging the outside of said head and said cap, a bearing bolt extending through said cap and said spanner through which bolt said stem extends, and a nut screw seated on the outer end of said bolt and engaging said spanner.

1,753,850. LOADING DEVICE FOR SEMIAUTOMATIC NAVAL GUNS. ROBERT DE COURSEULLES, Paris, France, assignor of one-half to Schneider & Cie., Paris, France, a Limited Joint Stock Company of France, and one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, a Limited Joint Stock Company of Paris, France. Filed Apr. 16, 1928, Serial No. 270,433, and in France June 22, 1927. 11 Claims. (Cl. 89—45.)



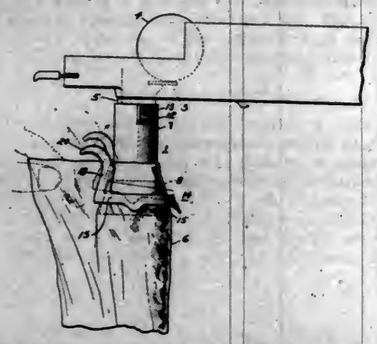
1. Loading apparatus for guns comprising, in combination with a gun and cradle and trunnions therefor, a frame pivoted about the trunnion axis, a projectile tray pivotally mounted on said frame about an axis substantially perpendicular to the trunnion axis and adapted to swing into loading position, a cartridge tray carried by said frame, and a stop on said cradle supporting said frame.

1,753,851. CATTLE-KILLING MACHINE. JAMES DEVER, Sioux City, Iowa. Filed Apr. 6, 1929. Serial No. 353,065. 9 Claims. (Cl. 17—1.)



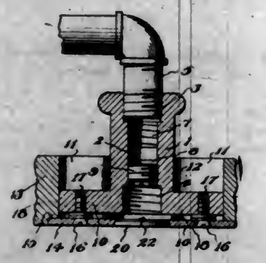
1. A machine of the character described comprising a turntable, an animal enclosure on the turntable, and means to impart rapid rotation to the turntable for the purpose described.

1,753,852. BAG HOLDER. EDWARD P. DONNELLAN, Brooklyn, N. Y., assignor to Standard-Johnson Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 3, 1928. Serial No. 297,343. 4 Claims. (Cl. 83—26.)



1. A bag holder comprising, a body having a flared lower portion, and a clamping member having means to engage said flared lower portion for clamping the upper part of a bag upon said body, said clamping member being cut away to permit the remainder of the upper part of said bag to extend freely from said bag holder.

1,753,853. OUTLET TERMINAL FOR FLUID-SUPPLY PIPES. ALFRED S. DOTY, Ashland, Ky., and LEON T. RICHEY, Huntington, W. Va. Filed Sept. 22, 1928. Serial No. 307,751. 5 Claims. (Cl. 137—76.)



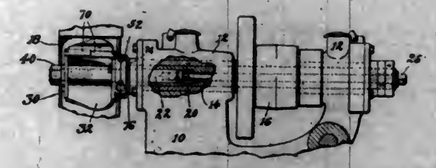
1. An outlet terminal for a pipe comprising a body formed with a bore having its end portions threaded to receive a supply pipe and a service pipe respectively, the outer end portion being provided with a head non-circular in form and adapted to prevent rotation of the body when the body is engaged with a supply pipe and its head disposed in an opening conforming substantially to the contour thereof, a cover plate of greater dimensions than the outer end of said body for covering an opening through which the body is adapted to extend formed with an opening alined with the bore of the body, a closure for the opening in said plate, and means to secure said plate to said body.

1,753,854. ELECTRO-GALVANIC MEDICAL APPARATUS. ANTON FISCHER, Furtwangen, Germany. Filed Mar. 31, 1928. Serial No. 266,251. 1 Claim. (Cl. 174—177.)



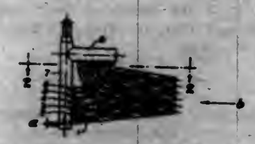
In an electro-galvanic medical apparatus the combination of a casing containing a source of current, a rheostat, a milliamperemeter and a pole-reverser on said casing, said pole-reverser having several positions for switching in stronger and weaker currents and consisting of contact-bolts arranged at certain distances in a circle, a rotary insulating plate, and spring pressed contacts on said insulating plate adapted to close the contact between two adjacent contact bolts.

1,753,855. CUTTER HEAD. ALFRED B. FOWLER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 10, 1925. Serial No. 22,143. 16 Claims. (Cl. 12—94.)



1. A rotary cutter-head comprising cooperative blade-clamping members, adjustable blades each having a notch in one side edge, means for securing said clamping members against relative rotation, and means arranged to engage said blades in said notches to adjust them relatively to said clamping members.

1,753,856. EVAPORATOR FOR REFRIGERATING PLANTS. ERICH FREUNDLICH, Dusseldorf-Oberkassel, Germany. Filed Sept. 7, 1928, Serial No. 304,500, and in Germany Mar. 17, 1928. 9 Claims. (Cl. 62—95.)



1. Vaporizer for refrigerating machines comprising a vertical head for the liquid refrigerating agent, a horizontal head for the vapors and a plurality of superposed substantially horizontally disposed pipes arranged in U-shaped coils bent upwardly at one end, the horizontally disposed ends of said coils terminating in said vertical head and the upwardly bent ends terminating in said horizontal head.

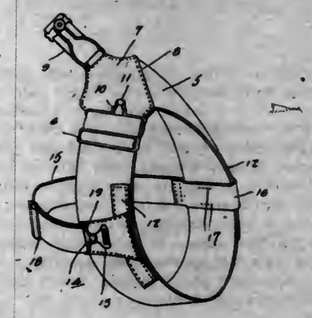
1,753,857. SHOE-STRETCHING LAST. ELIA GALTERIO, DOMINIC CHARLES MARIOTTI, and ANTONIO L. RUGGIERO, Denver, Colo.; said Elia Galterio assignor to Ada Galterio, Denver, Colo. Filed Aug. 10, 1928. Serial No. 298,807. 5 Claims. (Cl. 12—128.3.)



1. A foot stretching last comprising a body portion; width stretching blocks carried in depressions in the sides

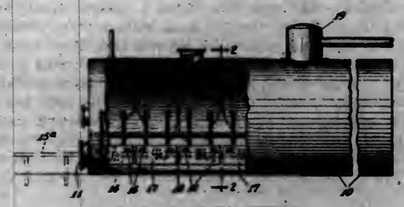
of said body portion; a spring member connecting said blocks through said body portion; means for separating said blocks from said body portion at either or both their forward and rearward extremities, said means comprising a pair of separating plugs slidably mounted in said body portion and adapted to engage the interior faces of said blocks; and wedging means arranged to be forced between said plugs so as to force them outwardly, there being a similar pair of plugs and wedging means adjacent each extremity of said blocks and each side of said spring means so that said blocks can be separated at either or both their forward or rearward extremities, and so that said blocks will hinge about said spring means.

1,753,858. COMBINATION GARMENT SUPPORTER AND COMFORTER. ROY GAY, Memphis, Tex. Filed June 7, 1929. Serial No. 369,211. 1 Claim. (Cl. 241—6.)



A combination drawers' leg supporter and foot comforter comprising an arch supporting band of elastic material, means projecting from the band for attachment to the lower end of a drawers' leg, and an adjustable strap for disposition around the rear portion of the ankle, and having its ends secured to the said band.

1,753,859. TREATMENT OF FLUIDS WITH SOLID SUBSTANCES. THOMAS T. GRAY, Elizabeth, N. J., assignor to Gray Processes Corporation, Newark, N. J., a Corporation of Delaware. Filed Jan. 18, 1926. Serial No. 82,114. 2 Claims. (Cl. 196—25.)



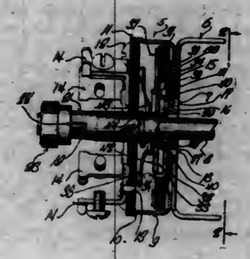
2. The process of refining hydrocarbon oil which comprises distilling the same, contacting the oil with a plurality of treating agents solid at the distillation temperature and confining the treating agents within separate limited spaces thereby preventing intermingling of the agents and the dispersion thereof in the oil.

1,753,860. APPARATUS FOR PRODUCING CANALS OR THE LIKE. WILLIAM F. HAHNEMAN, Puerto Cortes, Spanish Honduras, Central America. Filed Apr. 28, 1928. Serial No. 273,760. 5 Claims. (Cl. 86—21.)



1. An implement for use in explosive engineering, comprising a handle, a socket secured to the end of the handle and adapted to receive a primer, said socket having opening or openings in its side so that the earth may engage with the primer and remove the same from the socket when the socket is being removed from the hole.

1,753,861. SWITCH. EDWARD N. JACOBI, Milwaukee, Wis., assignor to Briggs and Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Feb. 20, 1928. Serial No. 255,816. 17 Claims. (Cl. 200—11.)

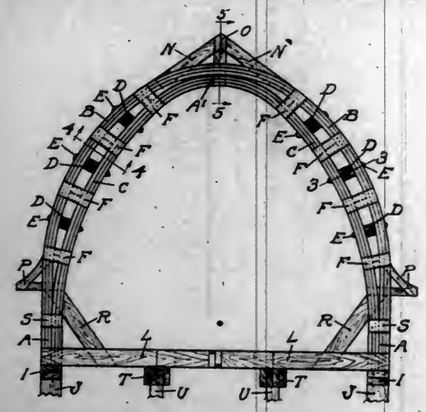


1. In a switch mechanism, a stationary member having a plurality of recesses therein, switch actuating means rotatably mounted with respect to the stationary member, switch instrumentalities adapted to be operated to different positions by the actuator, ball members nested in the recesses of the stationary member, means for maintaining the ball members in alignment with the stationary member recesses, and spring means whereby said ball members produce a detent action to distinctly define each position of the switch instrumentalities.

1,753,862. ROOF STRUCTURE. ALBERT C. JOHNSON, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed Dec. 3, 1927. Serial No. 237,485. 6 Claims. (Cl. 108—23.)

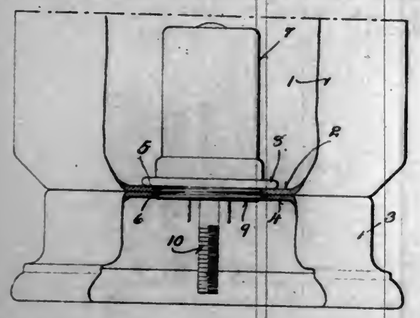
1. In roof structures, the combination of two laminated members, one being placed inside of the other, and both being curved continuously from one side of the roof to the other in an approximately semi-elliptical formation,

the ends and the central portions of the members being placed closely against each other for some distance and securely fastened together, while the side portions of the



members between their ends and central portions are gradually spaced apart, the spaces being the widest in the middle portions of the sides between their ends and their centers.

1,753,863. ELECTRIC PERCOLATOR. REMUS KOENIG and WALTER S. MARVIN, Two Rivers, Wis., assignors to Metal Ware Corporation, Two Rivers, Wis. Filed Sept. 4, 1928. Serial No. 303,886. 1 Claim. (Cl. 219—44.)



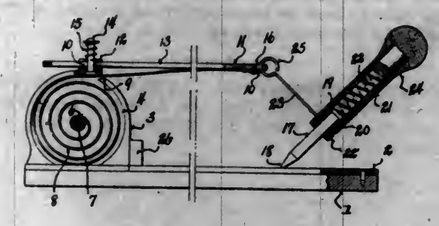
In an electric percolator, the combination of a pot having a bottom, a base member having a transverse upper wall, said bottom and said transverse wall having registered threaded apertures, and an emersion type of electric heater having a flange resting upon the bottom and having a downwardly projecting threaded extension screwed into the registering apertures whereby the base can be removed from the pot without disturbing the relative position of the heater with respect to the bottom of the pot.

1,753,864. BELT BUCKLE. HENRY C. KUHNHEIM, Newport, Ky. Filed Mar. 7, 1928. Serial No. 259,805. 6 Claims. (Cl. 24—191.)



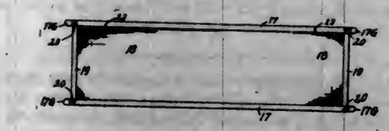
3. A belt buckle comprising a plate having guideways and bearings thereon, and a clamp member pivoted in said bearings and having sides extending in the direction of the plate, one of said sides having spurs extruded from its top and offset relative to the longitudinal center thereof.

1,753,865. STOCKING MARKER. CHARLES T. LA MONT, Milwaukee, Wis. Filed June 25, 1928. Serial No. 288,128. 3 Claims. (Cl. 66—1.)



1. A stocking marker comprising a base portion, a yielding bearing plate secured to the upper side of said base portion and upon which a stocking is adapted to be laid, a housing having a concavity therein, a spiral spring carried within said concavity and having an end portion locked with respect to said housing, said housing having a slot and said spring having its outer end projecting through said slot, said housing having a substantially horizontal bearing face, a guide having one face slidably engaged with said bearing face, means for yieldingly urging said slide in contact with said bearing face, a marker positioned beyond the outer end of said guide, and a link connecting said marker and said guide.

1,753,866. SCREEN FOR MOTOR VEHICLES. ALFRED D. MCCORMACK, Mankato, Minn. Filed May 31, 1928. Serial No. 282,010. 1 Claim. (Cl. 156—14.)

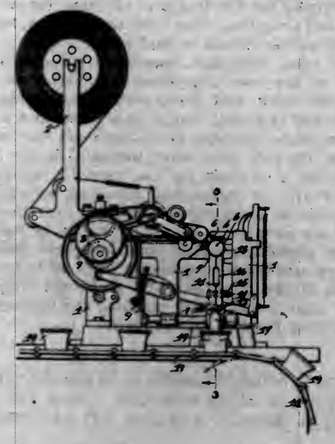


In a screen sash for structures having a window opening and a pane movable in vertical window grooves into said opening; said sash comprising a quadrangular screen holding metal frame the top and bottom frame members being resilient and projecting beyond and offset from the vertical members to form guide members adapted to frictionally engage in the window frame grooves and slidable longitudinally therein and close to the pane, said top and bottom members of the screen sash comprising each a metal strip folded longitudinally to clamp the screen therein; said end members comprising plain bars and suitably attached to the corresponding edges of the screen.

1,753,867. ARTICLE DISCHARGING AND CONVEYING APPARATUS FOR PAPER-CYLINDER-FORMING MACHINES. WILSON R. MYERS, New York, N. Y., assignor to Ice Cream Smack Products Co., a Corporation of Oregon. Filed Dec. 31, 1927. Serial No. 243,878. 6 Claims. (Cl. 93—36.)

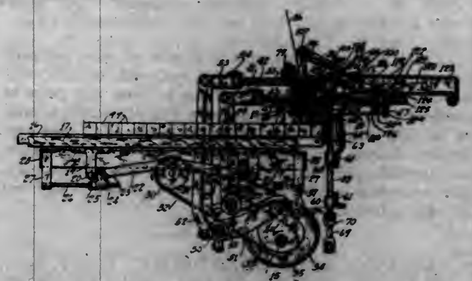
1. In cylinder forming machines the combination with a forming mandril and an ejector, of a pivoted stationarily

located receiving element into which said ejector delivers the articles from the mandril, means to move said receiv-



ing element on its pivot from a receiving to a discharging position and means at the discharging position to release the article from said receiving element.

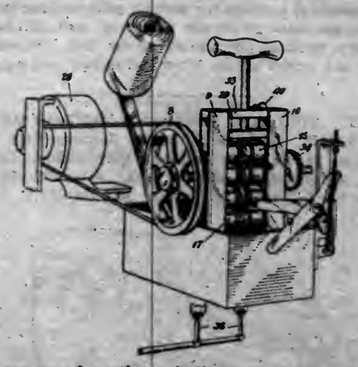
1,753,868. WRAPPING MACHINE. GEORGE D. RATLIFF, St. Louis, Mo., assignor to Pioneer Butter Wrapping Machine Company, Jackson, Miss., a Corporation of Mississippi. Filed Aug. 6, 1925. Serial No. 48,533. 3 Claims. (Cl. 198—219.)



1. In a wrapping machine, in combination, a vertically shiftable platform for successively delivering the articles for wrapping, a slotted table disposed horizontally in operative relation to the platform, the articles to be wrapped being supported upon the table in slot-straddling disposition, a conveyor disposed for movement in the slot of the table, and toggle means comprising a pair of opposed links pivotally connected together at one end and having pivoted connection at their other end with the conveyor for effecting movement of the conveyor in an ellipsoidal path for feeding said articles successively to and upon the platform.

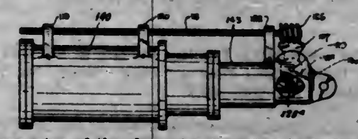
1,753,869. METHOD AND MEANS FOR PREPARING INSULATING SLEEVES. THOMAS C. REED, Covington, Ky., and AUBREY D. ODELL, Cincinnati, Ohio, assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed June 30, 1926. Serial No. 40,615. 8 Claims. (Cl. 154—2.5.)

2. In a machine for producing insulating sleeves from a relatively long section of impregnated collapsed sleeving, the combination with an S-shaped mandrel for expanding the sleeving, of a plurality of rollers having grooves therein, the said mandrel lying partly within the



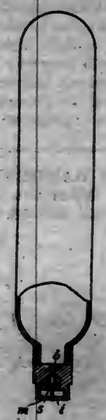
said grooves and partly encircling certain of said rollers, and being held in position by the co-action of other grooved rollers with the said certain rollers.

1,753,870. POWER-AMPLIFYING MACHINE. EUGENE LEVERING SCHELLENS, Pointe Claire, Quebec, Canada, assignor to Franklin Railway Supply Company, a Corporation of Delaware. Original application filed Dec. 15, 1924, Serial No. 756,160. Divided and this application filed Aug. 31, 1925. Serial No. 53,623. 5 Claims. (Cl. 137—139.)



5. Apparatus of the character described including a control valve, means for manually actuating said valve including a shaft, means for moving said shaft longitudinally to effect relatively coarse adjustments of said valve and means for rotating said shaft in fixed position longitudinally to effect relatively fine adjustments of said valve.

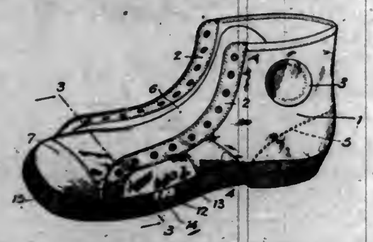
1,753,871. HIGH-PRESSURE GAS-DEVELOPING CARTRIDGE. GUSTAV SCHWORETZKY, Esslingen, a. N., Germany, assignor, by mesne assignments, to the Firm Jffa Ges. m. b. H., Berlin, Germany. Filed Oct. 11, 1926, Serial No. 140,967, and in Germany Oct. 21, 1925. 4 Claims. (Cl. 220—3.)



1. In a high-pressure gas developing cartridge for a portable fire extinguisher a sealing device for the charge

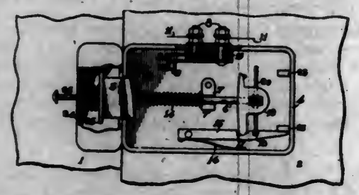
opening, comprising in combination, a tapering bushing with thin bottom, fitting into the tapering bore of the charge opening, a screw for locking said bushing in place, a diaphragm soldered to the mouth of said charge opening, and a striking pin riveted at one end into said diaphragm and guided at the other end in said locking screw.

1,753,872. ATHLETIC SHOE AND METHOD OF MAKING SAME. LEONARD L. STEED, Johnson City, N. Y., assignor to Endicott Johnson Corporation, Endicott, N. Y., a Corporation of New York. Filed Feb. 23, 1929. Serial No. 342,185. 11 Claims. (Cl. 36—14.)



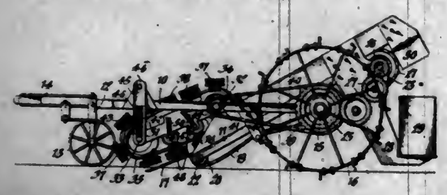
1. The herein described method of making vulcanized shoes, comprising attaching the lower edge of an upper to the periphery of an insole with the edge face of the upper terminating in the plane of the lower face of the insole; placing the parts thus formed upon a last; applying a vulcanizable outsole to the insole and over the lower edge of the upper; and vulcanizing the shoe.

1,753,873. VEHICLE LOCK. GEORGE R. SULLIVAN, Oakland, Calif. Filed June 29, 1928. Serial No. 289,253. 4 Claims. (Cl. 200—42.)



4. In a vehicle lock, a casing, a plunger mounted in the casing, contact means mounted on the casing, a contact member carried by the plunger and adapted to engage with the contact means, a spring for moving the plunger in a direction whereby the contact member is disengaged from the contact means, means for locking the plunger against movement whereby the contact member is maintained in a disengaged position with reference to the contact means, and a spring pressed member engageable with the plunger for normally maintaining the plunger in a position wherein the contact member is engaged with the contact means.

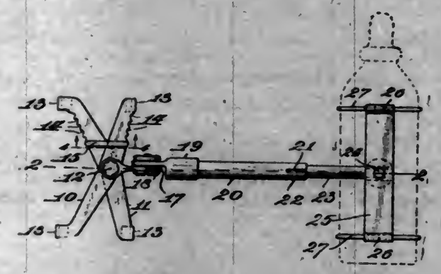
1,753,874. ONION HARVESTER. WILLIAM LLOYD TAYLOR, Elba, N. Y. Filed Feb. 23, 1928. Serial No. 256,241. 4 Claims. (Cl. 55—53.)



2. An onion harvester, comprising a plow, an elevator extending rearwardly from said plow, a frame disposed over the plow for movement toward and from the same, an endless belt journaled in said frame and having its lower stretch disposed in opposing parallel relation to and overlying the full length of the plow for engaging the onions and propelling them onto the elevator, and brushes mounted on the surface of said belt.

8. An onion harvester, comprising a frame, a plow arranged at the front end thereof, an elevator extending rearwardly from said plow, vertically-swinging supports fulcrumed at their rear ends to said frame at a point above the plow, shafts arranged at the front and rear ends of said supports, the rear shaft being journaled in the frame and constituting a fulcrum for the supports, sprockets fixed on said shafts, an endless feed belt engaging said sprockets and having its lower stretch disposed over the plow and part of the elevator to propel the onions across the plow onto the elevator, pendant arms fulcrumed to swing vertically on said frame and having guide ways for receiving the ends of said front feed belt shaft, and means applied to said arms for yieldingly resisting the upward swinging movement of the feed belt supports.

1,753,875. NURSING-BOTTLE HOLDER. HELENE H. BAUMANN, Highland Park, Calif. Filed July 18, 1927. Serial No. 206,468. 4 Claims. (Cl. 248—65.)



1. In a nursing bottle holder, a pair of arms pivotally connected intermediate their ends, both ends of both arms having depending terminal portions to form two pairs of resilient support engaging fingers, a link adjustably mounted on said arms to one side of the point of pivotal connection thereof for clamping said arms upon a support, an extensible arm pivotally connected to said pair of arms, and a nursing bottle receiving member pivotally mounted on said extensible arm.

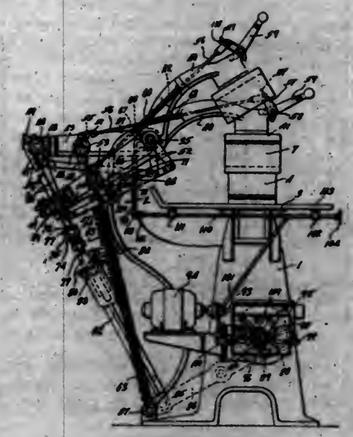
1,753,876. RETOUCHING DEVICE. PAUL F. BOYD, Chicago, Ill. Filed Dec. 29, 1928. Serial No. 329,147. 8 Claims. (Cl. 95—101.)



1. A device of the class described, comprising a casing, a plurality of pinions mounted in the casing, a belt for simultaneously rotating the pinions, disks connected with the pinions and having sweeps upon their peripheries, a lead mounted in the casing and extended between the disks and successively engaged by the sweeps during rotation of the pinions.

1,753,877. GARMENT-PRESSING MACHINE. BLUFORD W. BROCKETT, Cleveland Heights, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 233,935. 12 Claims. (Cl. 68—9.)

1. A garment press comprising a frame, a plurality of bed units carried thereby, a plurality of independent head supports mounted upon the frame and each having movement independent of the others, a press head carried by each head support, a single power means operated from



a suitable power source, and operative connections between said power means and all of said head supports for applying power pressure to said heads.

1,753,878. RECEPTACLE FOR SILVERWARE. CHESTER WALBRIDGE BURNHAM, Oneida, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Original application filed Nov. 23, 1923, Serial No. 676,471. Divided and this application filed Oct. 29, 1924. Serial No. 746,470. 1 Claim. (Cl. 206—75.)

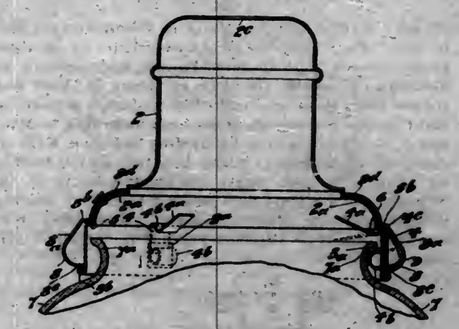


A two-part receptacle for flat tableware comprising a shallow serving tray having low upwardly extending marginal sides and a removable article carrier snugly mounted therein and provided with a transversely extending rack intermediate the ends of the removable article carrier, said rack provided with notches and having a central portion projecting above the end portions, the whole of the upper surface of the rack and the notches therein projecting above the upper edges of the marginal sides of the tray, and a support disposed upon either side of the rack and projecting above the sides of the tray, said support being located between the rack and the edge of the carrier for engaging and supporting the articles mounted in and projecting from the rack and cooperating with the rack to support said articles above the sides and ends of the tray.

1,753,879. PROCESS OF FRYING BACON. CLARENCE W. CARTER and CHARLES P. STRITE, Minneapolis, Minn. Filed Jan. 26, 1928. Serial No. 249,557. 3 Claims. (Cl. 99—11.)

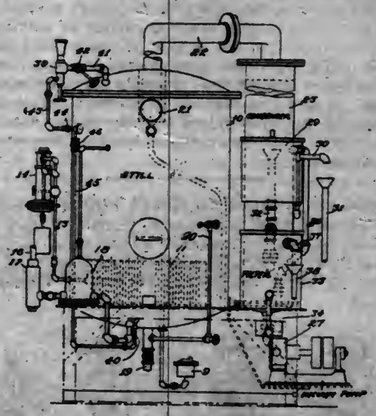
1. A method of cooking strips of bacon or the like which consists in confining the same in a flat open-ended folder which folds the strips in flat condition, and in subjecting the same to cooking heat applied thereto through said folder.

1,753,880. LAMP GLOBE, SHADE, REFLECTOR, OR LIKE SUPPORTING DEVICE. WALTER CURTIS, London, England, assignor to The Sun Electrical Company Limited, London, England. Filed Sept. 9, 1927, Serial No. 218,566, and in Great Britain Oct. 4, 1926. 2 Claims. (Cl. 240—132.)



1. A support for shades or globes having an outwardly extending rim, comprising a shade supporting casing having a cylindrical lower portion connected to the upper portion by an annular transverse portion, a plurality of pivoted shade holding hooks, a rotatable ring having a series of inwardly extending cams corresponding in number to the hooks, the annular transverse portion being provided with a number of slots extending to the upper edge of the cylindrical portion of the casing while the cylindrical portion of the casing is provided with a corresponding number of slots, the hooks being pivoted on pivots formed on the upper edge of the cylindrical portion of the casing by the slots in the annular portion thereof and having shade rim engaging portions extending through the slots in the cylindrical portion and through which they are pushed into engagement with the shade rim by the cams when rotated by the cam ring.

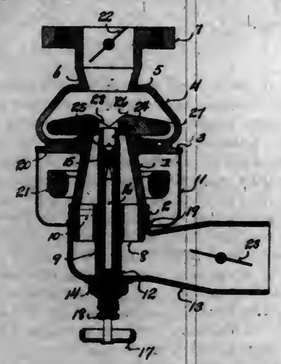
1,753,881. APPARATUS FOR RECOVERING GASOLINE SOLVENT. ANTON LOUIS DOEBNER, Philadelphia, Pa., assignor to Baeuerle & Morris, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 25, 1927. Serial No. 163,527. 3 Claims. (Cl. 196—15.)



1. An apparatus for recovering dry cleaning solvents and adapted for installation and operation in dry cleaning establishments, said apparatus including, in combination, a vacuum chamber, means for heating the same, a condenser communicating with said chamber, a valveless rotary pump of relatively high capacity and speed of operation having its inlet communicating directly with said

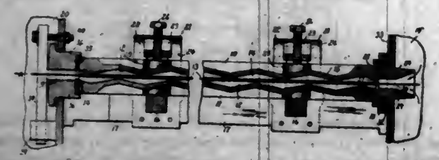
condenser so as to receive the distillate therefrom, and means for introducing steam into said chamber to expel the air therefrom and, by its condensation in said condenser, supply liquid to said pump to enable the latter to draw a vacuum in said chamber.

1,753,882. CARBURETOR. JOHN B. DRAHONOVSKY, Milwaukee, Wis., assignor of one-twentieth to Mathew Ferko, one-twentieth to Mary Puncer, one-twentieth to Ferdinand Klancnik, one-tenth to Henry W. Buer and Hertha Buer, three one-hundredths to Joseph Schweitzer and Caroline Schweitzer, seven one-hundredths to Maurice A. Goldberg, two one-hundredths to Fannie Kollenz, three one-hundredths to Anton Lep, two one-hundredths to William Wagner, forty one-hundredths to A. A. Strelzin, one one-hundredth to John Streichen, and one one-hundredth to Phelep Kinsfogl, Milwaukee, Wis. Filed Oct. 11, 1926. Serial No. 140,850. 1 Claim. (Cl. 261—62.)



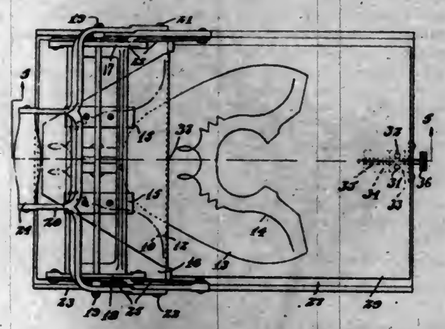
In a carburetor the combination of a central air shell, a float chamber surrounding said shell, a central standard positioned within said shell and supported from said shell, said standard having a hollow interior, the supporting member for said standard having a duct placing the hollow interior of the standard in communication with the float chamber, said standard having a relatively small duct leading upwardly through the upper portion of the standard and controlled by a needle valve and opening into a relatively enlarged cavity in the upper portion of the standard, and a mixing chamber carried by said air shell above the upper portion of said standard, said standard having radial apertures opening into the upper enlarged cavity, and a pair of flaps pivotally mounted within the mixing chamber and adapted to constrict the air passage around the central standard for slow engine speeds, said needle valve being freely adjustable from the exterior of the carburetor.

1,753,883. SCOURING CHAMBER FOR METAL-SCOURING MACHINES. CHARLES A. DREISBACH, New Haven, Conn., assignor to Standard Radial Blast Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1929. Serial No. 349,701. 7 Claims. (Cl. 51—8.)



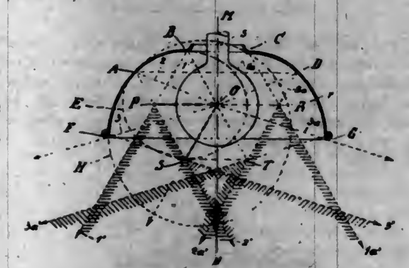
1. A scouring-chamber for metal-scouring machines, having a scouring-passage of undulating longitudinal form, whereby a granular abrasive blown through the said passage will be repeatedly deflected against work therein.

1,753,884. MARKING DEVICE. HERBERT E. EDWARDS, Brookline, Mass., assignor to T. J. Edwards, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 12, 1927. Serial No. 174,739. 19 Claims. (Cl. 101—301.)



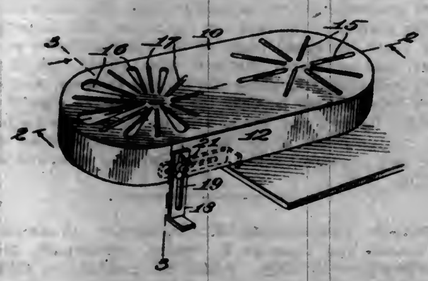
1. A marking device having, in combination, means for supporting an upper blank, and means correlated therewith for inking a legible fancy stitch guide line on the supported blank.

1,753,885. RADIATION APPARATUS. OSCAR GERHARDT, Berlin-Lichterfelde-Ost, Germany. Filed June 7, 1927, Serial No. 197,204, and in Germany June 14, 1926. 6 Claims. (Cl. 240—103.)



1. A radiation apparatus, comprising a source of light, and a reflector having a dim polish in the form of minute strokes radiant from the axis of the reflector.

1,753,886. AUXILIARY TOP FOR GAS STOVES. GEORGE G. GLENN, Long Beach, Calif. Filed Sept. 28, 1927. Serial No. 222,565. 1 Claim. (Cl. 126—216.)



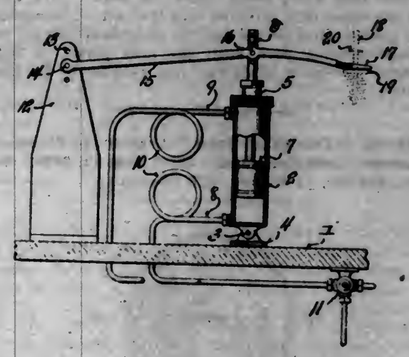
An auxiliary top for gas stoves and the like, comprising a housing having top and bottom plates, a continuous side wall connecting the edges of said top and bottom plates, there being an opening formed through the bottom plate at one end thereof, a series of radially disposed ribs pressed upwardly from the top plate directly above the opening in the bottom plate, there being a series of radially disposed openings formed through the end portion of the top plate opposite from the end from which the ribs are pressed which openings gradually increase in width toward the adjacent rounded end of the housing, and L-shaped supporting legs mounted on the side wall of the housing opposite the end that is provided with the bottom opening and the radially disposed ribs on the top plate, the upright members of which legs are slotted, bolts passing through the side walls of the housing and through the slots in said legs and nuts located on the threaded outer ends of said bolts for clamping the legs to said housing in differently adjusted positions.

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1,753,887. MANUFACTURE OF INSECTICIDES. WALTER HENRY GROOMBRIDGE, Deptford, London, England, assignor to Arthur J. Dickinson Limited, Deptford, London, England, a British Company. Filed Nov. 23, 1927. Serial No. 235,393. 16 Claims. (Cl. 167—14.)

16. In a method of manufacturing colloidal alkali metal silico fluorides the steps of adding 14 parts by weight of ammonium silico fluorides in a solution of 130 parts and 5 parts of caustic soda to 280 parts of soft potash soap having a fatty acid content of 12.6% in water, maintaining the temperature below 30° C. and making up the resulting product to about 3 times the volume of the ammonium silico fluoride solution, the reagents being agitated during mixing.

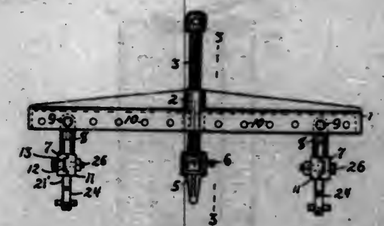
1,753,888. TOOL FOR COMPRESSING VALVE SPRINGS. ALBAN A. HOLSEN, Two Rivers, Wis. Filed May 21, 1928. Serial No. 279,398. 4 Claims. (Cl. 29—86.3.)



1. A tool for compressing valve springs comprising a support, a cylinder pivoted upon said support, a lever transversely of the cylinder, means for pivotally and adjustably supporting one end of said lever, said cylinder having a piston and a piston rod, means pivotally joining said piston rod with the intermediate portion of said lever, and a fork at the other end of the lever adapted to engage the valve spring.

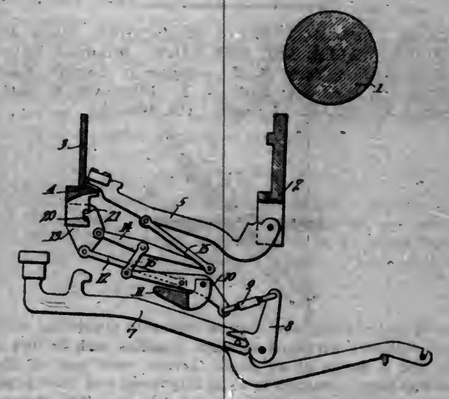
1,753,889. BULLDOZER FOR CHASSIS FRAMES. ROBERT J. JAUCH, Fort Wayne, Ind., assignor to The Utility Strate Mfg. Co., Fort Wayne, Ind., a Corporation. Filed Mar. 10, 1927. Serial No. 174,158. 9 Claims. (Cl. 153—38.)

1. In a bulldozer for straightening damaged chassis frames, a recessed beam having a central boss, and spaced pin holes in each end portion; a jack-screw extending through said boss and having threaded relation therewith; a cross-head on the projecting end of the jack-screw and having swivel relation therewith; a pair of hook members removably and adjustably mounted on said cross-head, one on each end portion thereof; a pair of adjustable cross-heads, one in adjustable connection with each end portion of said beam; and a pair of grapple



members adjustably mounted in each of said adjustable cross-heads, one in each end portion thereof, there being clamping means provided to prevent turning of the grapple members in their respective cross-heads.

1,753,890. TYPEWRITING MACHINE. CARL A. JOERISSEN, Washington, D. C. Filed May 24, 1928. Serial No. 280,274. 8 Claims. (Cl. 197—25.)

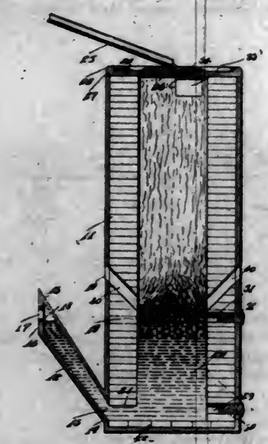


1. In a typewriting machine, the combination of a platen, a series of type carriers, a series of key levers, one for each type carrier, each adapted to effect movement of the associated type carrier to printing relation to the platen, means for checking such movement of each type carrier prior to its reaching printing position including a toggle, one arm of which is connected to the type carrier, a member pivotally mounted in the machine frame and connected to the other arm of the toggle, a common fulcrum rod connecting all of said members with the machine frame, and means for bodily shifting said rod to render all of the checking means inoperative.

1,753,891. APPARATUS FOR THE REDUCTION OF IMPURITIES CONTAMINATING MOLTEN METAL. LLEWELLYN JONES, Muncie, Ind. Filed July 19, 1928. Serial No. 293,963. 1 Claim. (Cl. 266—34.)

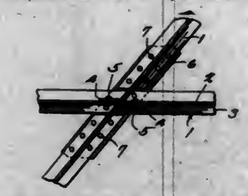
An apparatus for the reduction of the elements from molten metals, which has been run directly from a melting unit comprising an open vessel formed of a metal shell, a refractory lining within the shell, said shell and lining being provided with an outlet passage adjacent the lower end thereof, a discharge spout connected with the passage and tapering from the outer free end thereof towards the inner end where it is connected with the passage in

the shell and lining, the outer free end of the spout being provided with a discharge port, the shell and lining having



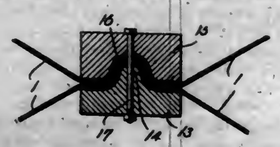
air inlet passages opening into the vessels at points above but adjacent a horizontal plane passing through the discharge port of the spout.

1,753,892. SPACE-COVERING STRUCTURE, SUCH AS ROOFS, WALLS, AND THE LIKE. WILHELM KLINGENBERG, New York, N. Y., assignor to Lamella Roof Syndicate, Inc., New York, N. Y. Filed Apr. 8, 1927. Serial No. 182,132. 1 Claim. (Cl. 108—1.)



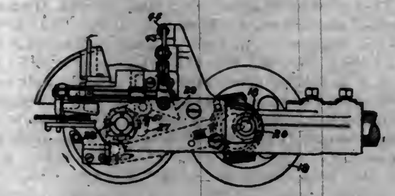
A space covering and closing structure consisting solely of obliquely arranged separate lamellas each having a web and a flange at an angle thereto, each pair of the lamellas being arranged in axial alignment and their adjacent ends having their webs extended beyond their flanges at the ends, and bent at the extended portions angularly with respect to the axes of said lamellas, said bent portions of the webs of the said pair of lamellas bearing directly against and being secured to opposite sides of the web of the intersecting lamella at a point intermediate the ends of said intersecting lamella, the flanges of the lamellas being in the same plane so that the ends of the flanges of each pair of lamellas are in close proximity to and parallel with the opposite sides of the flange of the intersecting lamella.

1,753,893. SPACE-COVERING STRUCTURE, SUCH AS ROOFS, WALLS, AND THE LIKE. WILHELM KLINGENBERG, New York, N. Y., assignor to Lamella Roof Syndicate, Inc., New York, N. Y. Filed Aug. 2, 1927. Serial No. 210,170. 2 Claims. (Cl. 189—36.)



2. A pair of lamellas arranged in overlapping relation and each having a transverse, substantially semi-circular corrugation forming an inset on one side and an offset on the opposite side, the corrugation of each lamella being of different diameter than and engaged with that of the other so that the corrugations of said pair of lamellas are concentric and means securing said lamellas together at their point of contact, said securing means comprising blocks arranged in opposing relation and shaped on their opposing faces to fit the corrugations of the lamellas and a bolt extending through said bearing blocks and the corrugations of said lamellas and securing them together.

1,753,894. TAPE CUTTER. CARL G. KRONMILLER, Chicago, Ill., assignor to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1929. Serial No. 352,943. 4 Claims. (Cl. 164—161.)



1. In apparatus of the character described, a cutter, means to feed past the cutter spaced articles connected by a tape, driving means comprising a member having an alternate working stroke and idle stroke and adapted normally to impart a cutting movement to said cutter during its working stroke, a trip normally in the path of the article approaching the cutter, and a pin actuated by said trip, when moved from the path of the article, said pin being thus actuated into the path of movement of said member and preventing the movement thereof in its normal working path until the next period of normal working movement after the trip returns to its normal position.

1,753,895. STEAMER. FRED P. LARSON and FLORENCE T. LARSON, Ludington, Mich. Filed Aug. 11, 1928. Serial No. 299,032. 1 Claim. (Cl. 53—1.)



A steam cooking appliance comprising a top plate, a depending spacing flange formed on the marginal edge of said plate, the flange having bent-back triangular shaped wings at spaced points defining V shaped steam escape notches, the portions between said notches being folded back to provide reinforcing means, and a handle connected with said top plate, the bent-back portions of the flange and said wings being in facial abutment with the body portion of the flange.

1,753,896. THERMOINSULATING STRUCTURE AND METHOD OF MANUFACTURING THE SAME. HARVEY B. LINDSAY, Evanston, Ill., assignor to Dry Zero Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 27, 1927. Serial No. 229,254. 2 Claims. (Cl. 144—309.)

1. The method of producing a hermetically sealed joint between flatwise opposed surfaces of elements to be united by an adhesive, one of the elements being flexible and the other a solid indentable body, which consists in rolling a



corrugation in the flexible element and into the flatwise opposed portion of said solid indentable body while said elements are flatwise opposed with adhesive therebetween.

1,753,897. HEATER FOR AUTOMOBILES. SIEGMUND LOEB, Berlin-Charlottenburg, Germany. Filed Nov. 15, 1927, Serial No. 233,455, and in Germany Nov. 16, 1926. 1 Claim. (Cl. 158—90.)

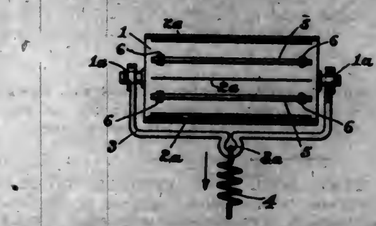


In a device for heating the water cooling system of automobile engines, a container closed by a screened cap, a plate dividing the interior of said container into an upper combustion and a lower supply chamber for liquid fuel, a screen in said plate, a catalyst for flameless combustion of evaporated fuel in said combustion chamber, an insulating member in the wall of said combustion chamber, an electrode passing through said insulating member, another electrode carried by said plate and extending into said catalyst and a binding post carried by said container and in electrically conducting connection with said second electrode.

1,753,898. MANUFACTURE OF AROMATIC THIAZOLE COMPOUNDS. HARRY A. MERKLE, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed July 14, 1927. Serial No. 205,851. 8 Claims. (Cl. 260—44.)

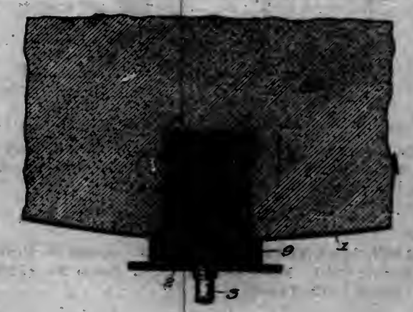
1. The method of manufacturing a mercapto-arylthiazole compound which comprises heating an aromatic mustard oil and sulphur under pressure in the presence of water as a reaction catalyst.

1,753,899. STALK CUTTER. JAMES H. MINER, Meridian, Miss. Filed Sept. 6, 1928. Serial No. 304,291. 5 Claims. (Cl. 55—61.)



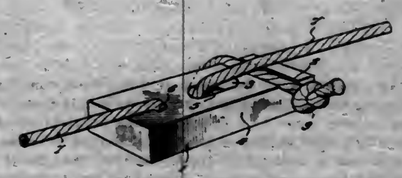
1. A stalk cutter comprising a knife carrier having substantially flat faces, rows of knives disposed perpendicular to said faces and means for causing the knives to descend on the stalks by gravity.

1,753,900. FILTERING MINERAL OILS. DONALD L. NAEF, Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Mar. 27, 1929. Serial No. 350,219. 3 Claims. (Cl. 210—171.)



3. The combination with a mineral oil filter tank of the percolator type adapted to contain granular adsorbent material and provided with a depressed outlet well at the lowest point thereof, of a cylindrical perforated filter medium support seated in said well and extending vertically above the bottom of the tank, said support being externally covered with a filter medium, and packing in said outlet well surrounding the base of said support.

1,753,901. CLOTHESLINE FASTENER. FRANKLIN H. NEUBERGER, Endicott, N. Y., assignor of one-tenth to Edwin James Brand, Jeffersonville, N. Y. Filed Jan. 14, 1929. Serial No. 332,401. 1 Claim. (Cl. 24—129.)

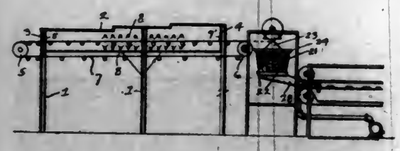


A clothes line fastener comprising a block having a slot formed therein, a pin supported by the block and bridging the slot, a pulley rotatably mounted on the pin, said block having a transverse groove formed therein and disposed at right angles to the slot, said groove being spaced therefrom and a line terminal passable through the slot for engagement with the pulley and in the groove, as and for the purpose set forth.

1,753,902. METHOD OF TREATING FRUITS AND VEGETABLES. JOHN J. NEVILLS, Sacramento, Calif. Filed Feb. 5, 1927. Serial No. 166,177. 1 Claim. (Cl. 146—219.)

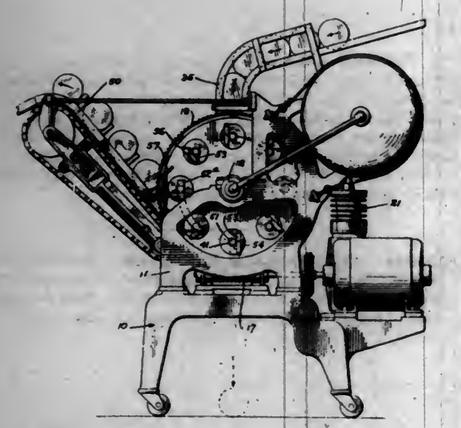
A method of removing the skins from pears consisting of holding the articles to be treated for a period of time

varying from two (2) to five (5) seconds at a temperature varying from four hundred (400) to eight hundred (800) degrees, F., by means of a dry steam that will sear and



loosen the skins of the articles without causing any injury thereto, and thereafter removing the loosened skins from the articles.

1,753,903. CAN-TESTING MACHINE. LOUIS H. PETERS, Oakland, Calif. Filed Apr. 25, 1928. Serial No. 272,617. 6 Claims. (Cl. 73—51.)



1. An apparatus of the character described comprising can testing means adapted to travel in continuous cycles and to receive a can at a predetermined point in its cycle of operation, said testing means being adapted to cause the end of a can to distend in the event that the can is not sufficiently evacuated, means actuated by the distension of the end of a can being tested to render said distending force ineffective, and means for maintaining said distending force ineffective after the first-named means is actuated until the cycle of operation of the machine on the can being tested is completed.

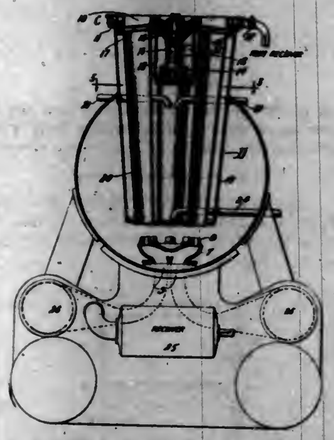
1,753,904. ACID-RESISTANT ALLOY. CLAYTON E. PLUMMER, La Grange, Ill., assignor to Electro Metallurgical Company, a Corporation of West Virginia. Filed Nov. 3, 1928. Serial No. 317,117. 2 Claims. (Cl. 75—1.)

1. An improved acid-resistant alloy consisting of nickel, silicon, copper and aluminum within the following proportional limits:

Silicon	9.0 to 11.0%
Copper	2.5 to 25.0%
Aluminum	1.5 to 2.0%
Nickel	Balance

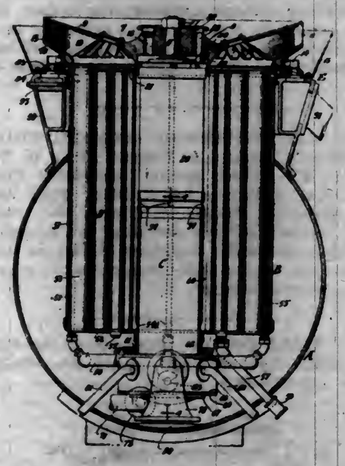
with iron as an impurity less than 1%.

1,753,905. LOCOMOTIVE FRONT END. EUGENE L. SCHELLENS, Pointe Claire, Quebec, Canada, and JOEL S. COFFIN, Jr., Lisbon, N. H., assignors, by mesne assignments, to C-S Engineering Company, a Corporation of Delaware. Filed Aug. 1, 1923. Serial No. 654,075. 26 Claims. (Cl. 110—162.)



1. In a locomotive draft appliance, a stack, a fan, a turbine for driving the fan, and a manifold for supplying an operating fluid disposed annularly of the stack.

1,753,906. LOCOMOTIVE DRAFT APPLIANCE. EUGENE L. SCHELLENS, Pointe Claire, Quebec, Canada, and JOEL S. COFFIN, Jr., Lisbon, N. H., assignors, by mesne assignments, to C-S Engineering Company, a Corporation of Delaware. Filed Dec. 18, 1923. Serial No. 681,450. 21 Claims. (Cl. 110—162.)

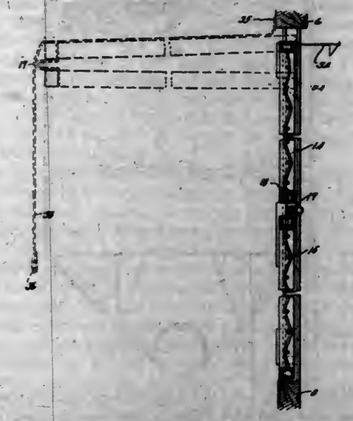


1. In a locomotive draft appliance, a stack and an exhaust-steam-driven centrifugally discharging fan for producing draft, said fan being located at the stack outlet.

1,753,907. REAR DOOR FOR VEHICLE BODIES. JOHN R. SCHERER, Detroit, Mich., assignor to The Abbey-Scherer Company, a Corporation of Michigan. Filed June 27, 1924. Serial No. 722,642. 6 Claims. (Cl. 296—106.)

1. A rear door mechanism for vehicle bodies comprising a pair of side guides adapted to be secured to the side

frames of a vehicle body, said guides having inwardly extending abutments adjacent their upper ends, an upper panel having laterally projecting lugs adapted to rest upon said abutments, a lower panel hinged at its upper



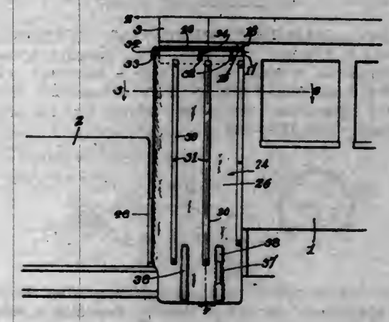
extremity to the upper panel and carrying adjacent its lower edges laterally projecting lugs slidable in said guides, and a latch member carried by the upper panel in position to engage the lower panel to hold the panels in raised position.

1,753,908. ADJUSTABLE SHOE-TREE. ANTONIO SCIMONELLI, Brooklyn, N. Y. Filed Nov. 5, 1927. Serial No. 231,327. 11 Claims. (Cl. 12—128.1.)



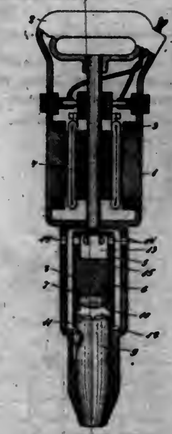
1. A shoe tree comprising heel and toe members, and a slidable hinge member, pivoted at one end of the toe member, and having a right angular portion with a slot engaged by a screw carried by the heel member.

1,753,909. CURTAIN ATTACHMENT. FINIS TALIAFERRO, Coffeyville, Kans. Filed July 16, 1929. Serial No. 378,742. 14 Claims. (Cl. 105—9.)



2. In a curtain attachment for locomotive cabs a pair of foldable side curtains, a foldable back curtain, said curtains for suspension from the top of the rear portion of the cab, each side curtain having its forward part of greater height than its rear part, said rear part for closing portions of the rear end of the cab, and means for detachably connecting said rear part to said back curtain.

1,753,910. STRIKING OR HAMMERING TOOL. ERNST HJALMAR WALODDI WEIBULL, Saltsjobaden, Sweden, assignor to Aktiebolaget Nordiska Armaturfabrikerna, Stockholm, Sweden, a Limited Company. Filed Jan. 14, 1928, Serial No. 246,901, and in Sweden Sept. 21, 1927. 4 Claims. (Cl. 125—33.)

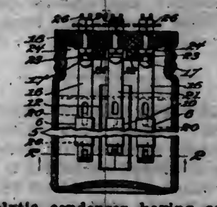


1. In striking or hammering tools of the kind referred to comprising a rotary and reciprocating striking body, an anvil, cooperating faces on said striking body and the anvil whereby upon rotation of the striking body the anvil is given a blow and whereby the striking body recoils backwardly from said blow to move in an axial direction, a chamber located at the end of the striking body formed in part by said striking member in which the air pressure is varied by the axial movement of said striking body on its axial recoil, such change in pressure tending to return the striking body to normal striking position and means to communicate such chamber with the atmosphere when in the last named position.

1,753,911. DESENSITIZER AND PROCESS OF DESENSITIZING LIGHT-SENSITIVE PHOTOGRAPHIC MATERIALS. BRUNO WENDT, Dessau in Anhalt, Germany, assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Dec. 28, 1928, Serial No. 329,070, and in Germany Feb. 3, 1928. 24 Claims. (Cl. 95—88.)

1. A process which comprises desensitizing light sensitive photographic materials by treating them with an aqueous solution of a polynuclear quinone derivative.

1,753,912. ELECTROLYTIC CONDENSER. SAMUEL T. WOODHULL, Winchester, Mass., assignor to The Amrad Corporation, Medford, Mass., a Corporation of Ohio. Filed Sept. 28, 1926. Serial No. 138,168. 9 Claims. (Cl. 175—315.)

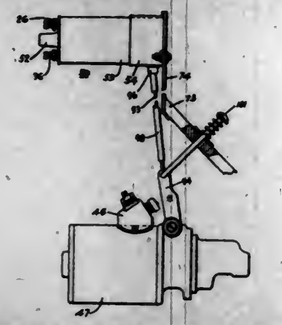


1. An electrolytic condenser having an electrolyte, a cathode electrode, a plurality of filming anodes immersed

in the electrolyte and adapted to be placed at different electrical potentials, and means for shielding from each other anodes which are maintained at widely varying potentials.

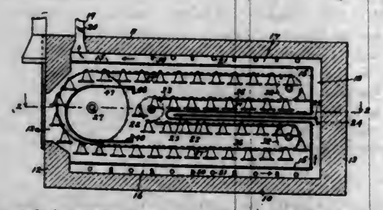
6. An electrolytic condenser comprising a container, an electrolyte, a plurality of filming anodes immersed in the electrolyte and adapted to form different sections of a filter, a negative electrode, and means for isolating the portions of the electrolyte associated with the several anodes from each other to prevent electrical conduction of currents of different filter sections through common portions of the electrolyte.

1,753,913. SWITCH CONTROL. JAMES L. ARTHUR, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 29, 1928. Serial No. 329,239. 20 Claims. (Cl. 123—179.)



1. In an electrical system for use with internal combustion engines, the combination with, a source of electric current and engine starting means energized thereby, of an ignition circuit also energising from said source and automatic means for decreasing the normal resistance of said ignition circuit coincidentally with the energisation of said engine starting means, comprising a sectionally divisible primary coil, and means for instituting the energization of the engine starting means, and operable to change the relation of said primary coil sections.

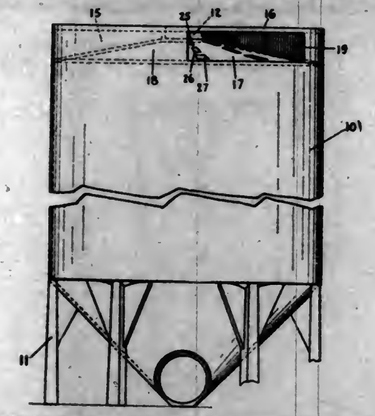
1,753,914. BAKE OVEN. HORACE A. BODGE, White Plains, N. Y., and JOSEPH C. EMLEY, Melrose Park, Pa. Filed Jan. 9, 1928. Serial No. 245,414. 8 Claims. (Cl. 198—154.)



1. In a bake oven, the combination with a carrier provided with a series of detachable trays, a pair of tracks fixedly supported within said oven, oppositely disposed bearing members movable along said tracks, two-part hanger-bars connecting said opposite bearing members together and disposed to receive said trays, and means for detachably securing the sections of the hanger-bars together.

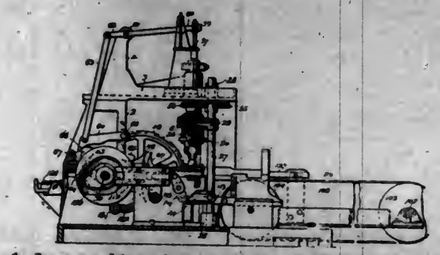
1,753,915. SPRAY-DRYING APPARATUS. WILLIAM SPENCER BOWEN, Westfield, N. J. Filed June 5, 1929. Serial No. 368,602. 9 Claims. (Cl. 159—4.)

1. Desiccating apparatus, comprising a tower affording a closed drying chamber provided with an opening at the top for the admission of a solid-containing liquid, an inlet chamber provided at the top of said tower for a gaseous desiccating medium and surrounding the admission opening, and the said inlet chamber being provided by the top wall of the tower and a bottom wall disposed below the



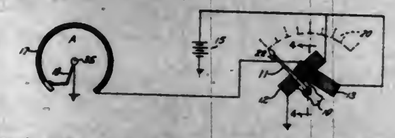
same within the tower, the said bottom wall having ports circularly arranged and radially disposed therein to admit a gaseous desiccating medium to the interior of the chamber tangentially.

1,753,916. MACHINE FOR APPLYING REENFORCEMENTS TO CLOTHESPINS. SIGMUND BOWER, Brooklyn, N. Y. Filed Dec. 12, 1928. Serial No. 325,530. 39 Claims. (Cl. 140—93.)



1. In a machine of the class described the combination of a chuck adapted to grip and revolve a clothes pin, means for feeding a wire in relation to the clothes pin with the end of the wire projecting into the slot thereof, means for causing the rotation of the chuck whereby the reenforcing wire is wound around the clothes pin, and means for severing the wire and for forcing the severed end into locking engagement within the slot of the clothes pin.

1,753,917. ELECTRIC INDICATING INSTRUMENT. MOSES E. CHENEY, La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Feb. 29, 1928. Serial No. 257,816. 6 Claims. (Cl. 177—351.)



1. In an electrical tank content measuring device, a tank, a source of current, a rheostat including a movable element and a resistor of greater resistance per unit of length at the end corresponding to the empty tank position than at the end corresponding to the full tank position, the full tank position corresponding to the low resistance end of the resistor, an indicator including two coils, one

connected across the source of current and the other in series with said resistor, a movable element positioned to be actuated by the effect of the coils and a pointer operated by said element and having generally increasing increments of scale movement for equal increments of voltage applied to the coil in series with the resistance, a stop pin for suppressing the natural scale movement of the movable element at the empty tank end of the scale, the intermediate resistances of said resistor being graded to produce uniform indicator pointer movements for equal units of tank measure, and means for moving the movable element of said rheostat in accordance with variation of liquid level in said tank.

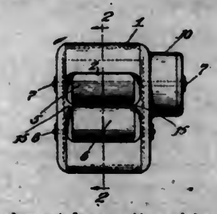
6. In a liquid level indicator the combination of a float-operated rheostat including a strap-type resistance element having a tapered insulating strip, a coil on said strip, said coil being wound from the narrower part of the strip to the wider part of said strip as far as the turns will remain positioned as wound, and a cooperating wiper arm, the movement of the arm with respect to said resistance being such that the arm passes off of said resistance at a point in its travel adjacent to a limiting float position, with an indicating device including, a coil in series with said resistance, a pointer, a cooperating uniformly graduated scale, and means operated by said coil capable of producing a movement of said pointer from a point beyond one end graduation of the scale to at least the other end scale indication, one current-produced end scale indication being that established by the pointer when the minimum resistance is in series with the indicator, the other current-produced scale indication being established when the maximum resistance is in series with said indicator, means for holding the indicator pointer at the zero scale indication adjacent the minimum current produced scale indication, said zero indication being spaced from the minimum current-produced scale indication an angular distance in accordance with the angular spacings of the remaining scale indications.

1,753,918. STRAP FASTENER. BENEDICT COLAVECCHIO, Providence, R. I. Filed Feb. 20, 1929. Serial No. 341,326. 2 Claims. (Cl. 24—77.)



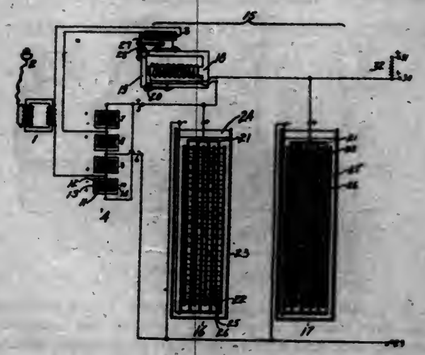
1. In a shoe including straps, an entrant fastening member comprising an oblong back plate fast at one end to one strap, forwardly directed lateral guide flanges upon the plate, a tongue comprising a forwardly directed shank portion integral with the plate between the flanges, a horizontal lip portion upon the shank, and a forwardly inclined free end, a face plate fast to the second strap adapted to abut against the forward edges of the flanges, a loop upon the back of the face plate engageable with the guide flanges adapted to receive the lip portion and bear against the shank portion.

1,753,919. COTTON PICKER. JAMES H. COOPER, Chicago, Ill. Filed Nov. 5, 1927. Serial No. 231,207. 9 Claims. (Cl. 56—32.)



1. A picking element for a cotton picker head comprising a hollow cylindrical roller of soft rubber, and heads of yieldable rubber closing the ends of the roller.

1,753,920. RADIO POWER SUPPLY DEVICE. PHILIP E. EDELMAN, Chicago, Ill., assignor to Ephraim Banning, Chicago, Ill. Filed Jan. 26, 1927. Serial No. 163,734. 14 Claims. (Cl. 175—315.)

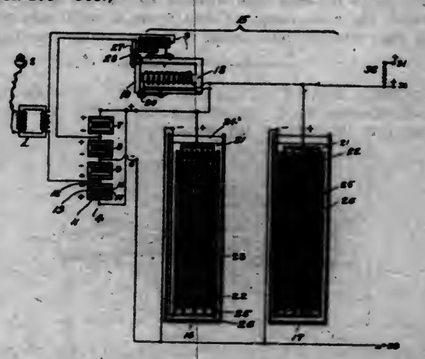


1. In apparatus of the kind set forth, an electrical device comprised of adjacent filming electrode surfaces exposed to cellucotton in which a conducting salt is absorbed and crystallized.

2. In apparatus of the character set forth, aluminum electrodes separated by a thin fabric of fibres saturated with sodium phosphate crystallized therein.

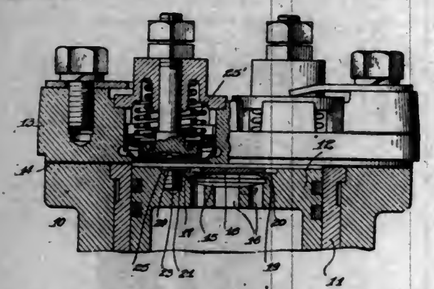
12. An electrical condenser consisting of, in combination, filming metallic sheet electrodes, a thin fibrous spacer sheet extending between and separating said electrodes, and an electric current conducting chemical compound containing a crystalline polarizing electrolyte supported by said spacer sheet and contacting with said electrodes, characterized by the fact that the thickness of said metallic sheet electrodes is proportioned with respect to the thinness of said fibrous spacer sheet to afford a thermal mass for said electrodes greater than the thermal mass of said conducting chemical compound supported by said spacer sheet.

1,753,921. RADIO POWER SUPPLY DEVICE. PHILIP E. EDELMAN, Chicago, Ill., assignor to Ephraim Banning, Chicago, Ill. Original application filed Jan. 27, 1927, Serial No. 163,734. Divided and this application filed Sept. 26, 1927. Serial No. 222,170. 5 Claims. (Cl. 175—363.)



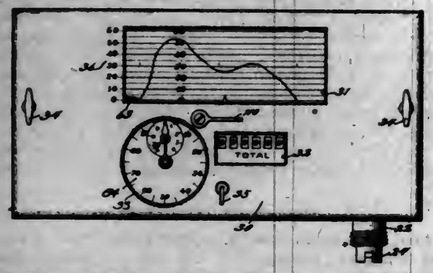
4. As a radio power supply unit the combination of a transformer, means to supply current thereto, a rectifier connected to said transformer, a filter circuit connected to said rectifier and including a load carrying choke coil, and a regulator for said transformer combined with and actuated by said choke coil whereby the output from said transformer is decreased when the load carried by said choke coil is decreased, thereby limiting voltage changes applied to said filter circuit when said load is varied.

1,753,922. COMPRESSOR VALVE. FREDERICK R. EBACH, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Dec. 16, 1927. Serial No. 240,409. 2 Claims. (Cl. 230—221.)



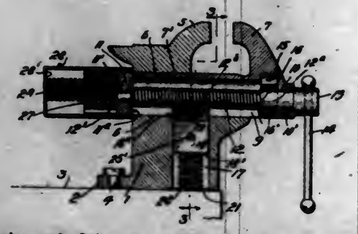
1. In a compressor, a piston provided with a valve port in the face thereof, a relatively movable disk adapted to close said port, and a plurality of screw threaded members secured to said piston in regularly spaced relation about said port and adapted to be engaged by said disk when said disk moves from said port.

1,753,923. SPEEDOGRAPH. FRANKLIN L. FELTY, Chicago, Ill.; Maude M. Felty administratrix of said Franklin L. Felty, deceased. Filed June 25, 1923. Serial No. 647,542. 6 Claims. (Cl. 284—1.)



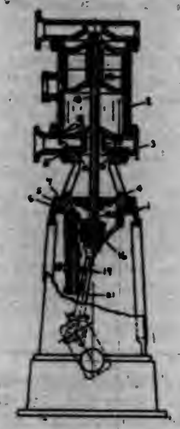
1. In combination with a recorder, a case therefor, a front for said case having a platform on which said recorder is disposed, a tape, a tape winding mechanism, and a latch for said tape winding mechanism adapted to prevent the attachment of said front to said case when said tape winding mechanism is in inoperable position.

1,753,924. SCREW-ACTUATED VISE. WILLIAM GORDON, Union, N. J. Filed Apr. 22, 1927. Serial No. 185,737. 3 Claims. (Cl. 81—36.)



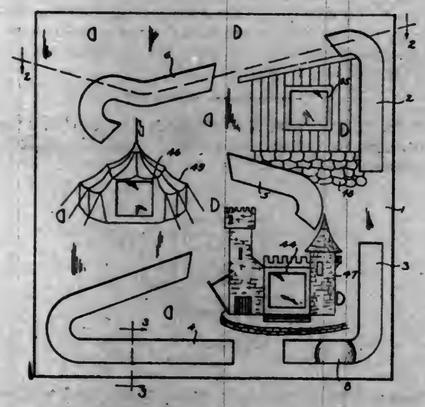
1. A vise embodying, in combination, a supporting body portion, jaw members, one of which is relatively stationary and the other movable relatively thereto, a screw connected with one of such jaw members and mounted thereon for rotary movement only, a sectional nut mounted for vertical movement only and having a connection with the other jaw member and provided with threads arranged to be operatively engaged with the threads of said screw, the threads of said screw and nut having complementary inclined sides arranged to permit a relative sliding movement in one direction, spring means for normally pressing the threads of said sectional nut into engagement with the threads of said screw, whereby direct manual pressure against the movable jaw will permit a clicking of the threads of the screw over those of the sectional nut to produce a quick movement of the movable jaw, means for manually disengaging the threads of said sectional nut and screw, and a spring normally cooperating with the first mentioned spring means to press the inclined threads of the screw into engagement with the inclined threads of the sectional nut and also operative upon manual disengagement of the nut to move the jaws into full open position.

1,753,925. STEAM ENGINE. WALTER B. GOSS, Erie, Pa., assignor to Spinner Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 7, 1927. Serial No. 238,426. 2 Claims. (Cl. 121—194.)



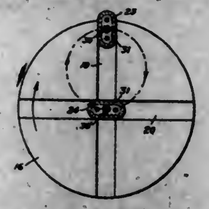
1. In an engine, the combination of a main frame; a cylinder; a connecting frame between the cylinder and main frame having a cylindrical cross head guiding surface at one side, an alining and centering seat for the cylinder, and a support which rests on a seat at the upper end of the main frame; a cross head on the guiding surface; and guide plates extending over the cross head.

1,753,926. TOY. HARRY W. HEPNER, Syracuse, N. Y. Filed Nov. 17, 1927. Serial No. 233,970. 13 Claims. (Cl. 46—37.)



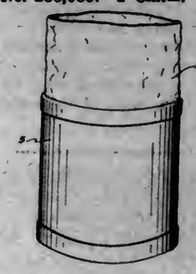
1. In a toy, an enclosure having a picture opening, moving means within said enclosure moved by the movement of the enclosure, and disks moved by said moving means carrying pictures adapted to be displayed through the openings in said enclosure.

1,753,927. POWER-TRANSMISSION MECHANISM. RAY P. HIGBEE, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 27, 1928. Serial No. 265,204. 2 Claims. (Cl. 74—14.)



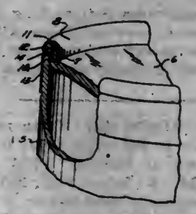
1. In a transmission mechanism, a pair of rotatable shafts arranged with confronting ends, a disk secured to the confronting end of one shaft and having a plurality of crossed grooves in its outer face, a plate secured to the confronting end of the other shaft and means for operatively connecting the plate and the disk comprising a plurality of elongated blocks slidably disposed in said grooves, each of said blocks being constructed of two parts the adjacent edges of which are channeled to form a ball raceway, and a plurality of rotatable balls disposed in the raceway to engage the side walls of the grooves.

1,753,928. CONTAINER. EDWIN F. HULBERT, Owen, Wis., assignor to The Master Package Corporation, Owen, Wis., a Corporation of Delaware. Filed Feb. 17, 1928. Serial No. 255,085. 1 Claim. (Cl. 229—5.5.)



The combination with a shipping drum having fibre siding and a reinforcing metal mouth-band extending over the top edge of said siding, of a tube of flexible material crimped to the mouth of the drum by said metal band, said tube providing an extensible filling mouth and a protective covering for the contents of the drum.

1,753,929. REENFORCED CONTAINER. EDWIN F. HULBERT, Owen, Wis., assignor to The Master Package Corporation, Owen, Wis., a Corporation of Delaware. Filed Feb. 17, 1928. Serial No. 255,086. 5 Claims. (Cl. 229—5.7.)



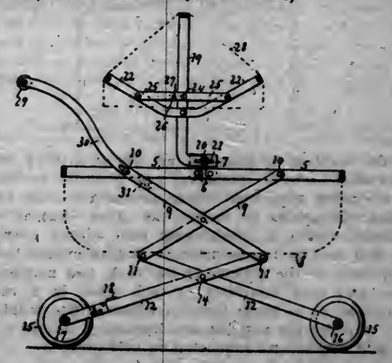
1. In a container, the combination with the head and fibre siding, of a reenforcing metal band associated with said head and siding, and a reenforcing metal band for the outer side of the siding having interlocking rolled, crimped engagement with said first-named band.

1,753,930. APPARATUS FOR PUMPING DEEP WELLS. CHARLES JACOBSEN, Tulsa, Okla. Filed July 5, 1928. Serial No. 290,512. 1 Claim. (Cl. 103—5.)



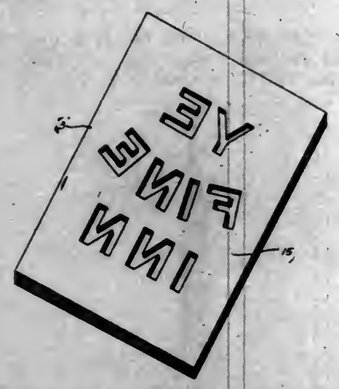
Apparatus for pumping deep wells including in combination with well casing, a liner in said casing and extending therefrom into the well hole, a packer between the liner and the casing, tubing in the casing resting on the liner and having ports above the packer, a standing valve in the liner, a plunger in the barrel above the standing valve, rods connected with the plunger and extended through the tubing, and means for delivering pressure medium to the tubing through the casing and said ports, the tubing having auxiliary ports below said first-named ports for admitting fluid from the barrel to the casing below said first-named ports.

1,753,931. COLLAPSIBLE BABY CARRIAGE. EDWARD F. LEWIS, Brooklyn, N. Y. Filed Feb. 1, 1928. Serial No. 251,091. 5 Claims. (Cl. 280—41.)



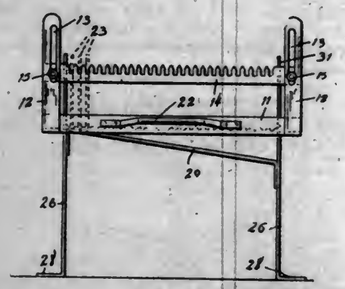
1. In a collapsible baby carriage the combination with a pair of lugs each having a shoulder, of a pair of bowed rail members having the ends thereof pivoted to the lugs and made to impinge on the shoulders so as to limit the opening movement of the rails, wheel carrying lazy-tong leg members connected to the rails, the leg members being adapted to be folded to position one wheel in line with the other, and a hood frame including arms having elbow shaped lower portions pivoted to the lugs whereby the hood frame can be folded parallel with and substantially within the same height as the rails.

1,753,932. ART OF PRINTING. WILLIAM LOSKE, Brooklyn, N. Y. Filed Aug. 20, 1926. Serial No. 130,372. 2 Claims. (Cl. 101—401.1.)



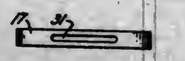
2. The method of manufacturing printing plates which consists in providing a flat surface, arranging a loose type layout on said surface, surrounding the layout with a frame the height of the printing plate desired, pouring a plastic composition over the type, securing a rigid backing member to the composition and finally removing the type after the composition has set.

1,753,933. METHOD AND MEANS FOR UNLOADING ARTICLE CARRIERS. HENRY W. LORMOR, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Feb. 2, 1929. Serial No. 337,108. 7 Claims. (Cl. 214—1.1.)



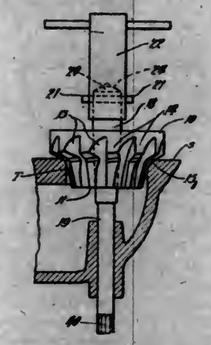
1. The method of transferring spaced articles from a carrier element to an unloading rack element, one of said elements being open from top to bottom and large enough in plan dimensions to enable the other element to be telescoped within it, positioning said carrier over said rack, said rack having an article engaging surface inclined transversely to the articles in the rack, and moving said carrier and rack relatively to each other in a vertical direction so as to cause them to telescope one within the other, whereby the articles are disengaged one at a time from said carrier and supported on said rack.

1,753,934. WINDSHIELD SOLUTION FEEDER. AMBROSE P. LUNNEY and FREDERICK L. PEART, Denver, Colo. Filed June 3, 1929. Serial No. 368,172. 5 Claims. (Cl. 15—251.)



1. A device for supplying liquid to an automobile windshield comprising: a horizontally disposed container; means for supporting said container above said windshield; a discharge spout extending from said container over said windshield; a valve arranged to control the flow of solution through said spout; said supporting means comprising: a U-shaped bracket having downwardly depending legs provided with openings and projections formed on said container and adapted to enter said openings.

1,753,935. CUTTER. OLIVER M. MAISCH, Chicago, Ill. Filed Apr. 20, 1927. Serial No. 185,086. 1 Claim. (Cl. 90—12.5.)



A toothed cutter for refacing valve seats, the face containing the cutting edges of each tooth lying in a radial plane relative to the axis of rotation of the cutter, each tooth being uniformly relieved rearwardly of its cutting edges to produce faces each of which is uniform in width throughout its length and forms a helical band concentric with the axis of rotation of the cutter, each tooth comprising an upper part and a seat-engaging part, the cutting edge of the seat-engaging part being at an angle and of a width corresponding with the angularity and width of the seat to be refaced, and the cutting edge of the upper part being inclined to the axis of rotation of the cutter at an angle greater than that of the cutting edge of the seat-engaging part.

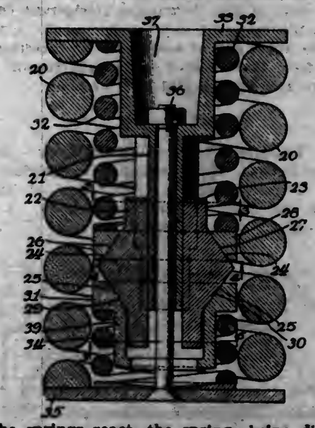
1,753,936. BLOWER FOR POWDERED FUEL. MORTIMER J. P. MOORE, Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1926. Serial No. 116,626. 3 Claims. (Cl. 302—37.)



1. In a blower apparatus for handling pulverulent material, a rotor element having blades with indentations therein on the side thereof subject to the abrasive action of said material, said indentations having undercut sides

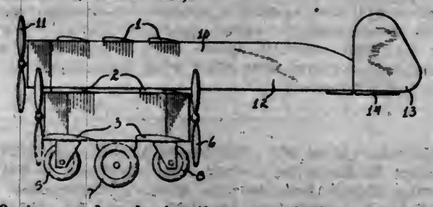
1,753,937. SHOCK ABSORBER. CHARLES J. NASH, Chicago, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed Nov. 22, 1928. Serial No. 321,054. 8 Claims. (Cl. 267—9.)

2. In a shock absorber in combination, a central friction bar, friction shoes engageable with the bar and each having oppositely inclined wedge faces, wedge elements cooperating with the wedge faces of the shoes, means resisting outward lateral movement of the wedge elements, springs bearing upon both sets of wedge elements, means against



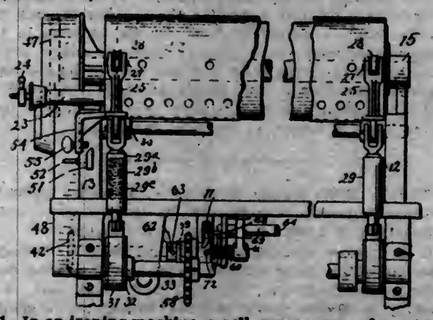
which the springs react, the springs being differentiated in strength, and means for positively arresting the wedge elements cooperating with the weaker spring.

1,753,938. AEROPLANE. CHARLES PETRUNIN, Toledo, Ohio. Filed Nov. 28, 1927. Serial No. 236,097. 5 Claims. (Cl. 244—14.)



2. An aeroplane having three sets of wings arranged in vertically spaced relation, the middle wing being considerably longer than the remainer and the top wing being longer than the lower wing, and each wing being composed of horizontally spaced relatively narrow plates, two cabins disposed beneath the central wing and spaced from each other longitudinally of said central wing, and a cabin between said central wing and top wing positioned intermediate of said first cabin.

1,753,939. IRONING MACHINE. JOHN PRACHAR, Cleveland, Ohio, assignor by mesne assignments, to Central National Bank of Cleveland, trustee, Cleveland, Ohio, a Corporation of National Banking Laws of America. Filed Jan. 18, 1924. Serial No. 686,948. 3 Claims. (Cl. 68—9.)



1. In an ironing machine, a roll, power means for actuating the roll, a shoe movable toward and away from the roll, a pair of pivotally supported arms connected to the shoe adjacent opposite ends thereof, a shaft having eccentric means thereon, and independent yieldable members connecting the same to the arms.

1,753,940. ICE BLOCK AND MOLD FOR FORMING SAME. SADIE B. REED, New York, N. Y. Filed Jan. 21, 1929. Serial No. 333,810. 8 Claims. (Cl. 62—111.)



5. A mold for forming ice blocks having a drain opening, said mold having an upwardly convex bottom section and a member extending upwardly from said bottom section.

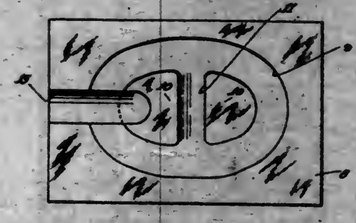
8. A solid refrigerant adapted for the service of food, provided with a drain opening, and having a recessed portion for holding the food, said drain opening communicating with said recessed portion for permitting water which collects in said recessed portion to drain off.

1,753,941. MANUFACTURE OF CHAINS. JAMES REID, Watertown, ALBERT M. LEAHY, Somerville, and CARLTON G. LUTTS, Salem, Mass.; Margaret Swan Reid executrix of said James Reid, deceased. Filed Aug. 10, 1926. Serial No. 128,448. 3 Claims. (Cl. 59—33.)



1. The process of manufacturing chain links which consists in providing complementary link sections, one having a reduced portion and the other a heated recessed portion and then uniting said complementary reduced and recessed link portions by contracting the heated plastic metal of the recessed portion into locking egnagement with the inclosed cold metal of the reduced portion by a single die pressing operation serving to uniformly compress the entire surface of said recessed link portion and thereby provide a completed link of uniform thickness from end to end, with a rounded outer contour entirely devoid of protuberances over the joint between said link sections.

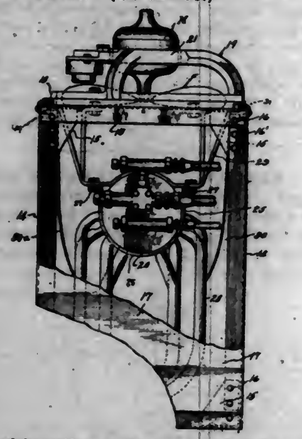
1,753,942. DIE FOR THE MANUFACTURE OF CHAIN. JAMES REID, deceased, Watertown, Mass., by Margaret S. Reid, administratix, Watertown, Mass., ALBERT M. LEAHY, Somerville, and CARLTON G. LUTTS, Salem, Mass. Original application filed Aug. 10, 1926, Serial No. 128,448. Divided and this application filed Sept. 21, 1928. Serial No. 307,510. 2 Claims. (Cl. 59—33.)



1. A die for the manufacture of two-part stud chain links comprising a block having a main elliptical depres-

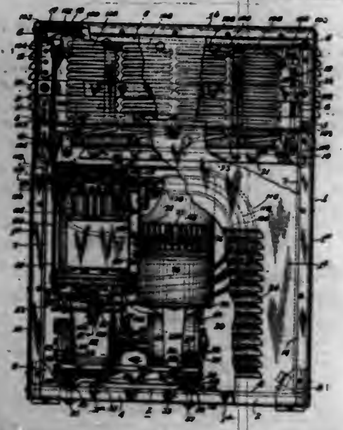
sion with a secondary depression extending across the minor axis of the main depression, for enclosing, receiving and supporting mating portions of an open link section and a closed stud link section conforming to said depression, one end of said die providing a third depression extending at right angles to the main depression along its major axis for receiving a portion of a completed stud chain link embracing the open link section in said main die depression.

1,753,943. REFRIGERATING APPARATUS. JOHN R. REPLOGLE, Detroit, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Sept. 15, 1926. Serial No. 135,490. 4 Claims. (Cl. 62—95.)



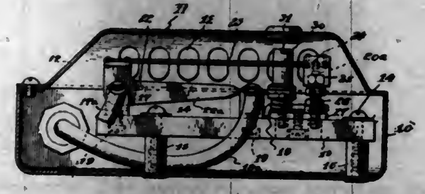
1. In a refrigerating apparatus, a heat transfer structure comprising a housing provided with air inlet and outlet openings, a vaporiser secured within said housing and including a plurality of depending pipe loops, mechanical means for circulating air through said housing, and converging air deflectors positioned on opposite sides of said housing adapted to constrict the air passage therethrough adjacent said pipe loops.

1,753,944. AIR-COOLED REFRIGERATION APPARATUS. JOHN R. REPLOGLE, Detroit, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 26, 1926. Serial No. 144,249. 6 Claims. (Cl. 62—115.)



1. In refrigeration apparatus, a casing, a partition therein dividing said casing into upper and lower compartments, an aperture in said partition, a motor having a vertically arranged shaft and a compressor geared to the lower end of said shaft, all located in the lower of said compartments; coils of pipe forming a refrigerant condenser arranged in the upper of said compartments, a fan connected to the upper end of said shaft for directing a current of air from the lower of said compartments through said aperture and around said coils of pipe.

1,753,945. THERMOSTAT CONTROLLER. JOHN R. REPLOGLE, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 22, 1927. Serial No. 214,543. 3 Claims. (Cl. 200—138.)



1. In an automatically actuated switch mechanism, a stationary contact member, a heat responsive member having one end rigidly secured, a contact member carried by the free end of said heat responsive member, said contact members being connected with a source of electrical energy, magnetic means for assisting the effect of heat on said heat responsive member for causing engagement of said contact members, said heat responsive member and said magnetic means being independently adjustable to regulate their effect upon the engagement of said contact members.

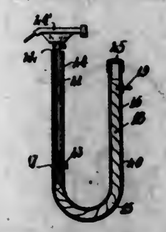
1,753,946. LID FOR REFRIGERATING CABINETS. JOHN R. REPLOGLE, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 25, 1927. Serial No. 215,311. 1 Claim. (Cl. 220—29.)



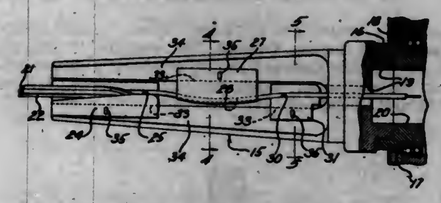
In a refrigerated food storage cabinet having an exterior wall and an interior food storage chamber each of which is provided with an opening to permit access to the interior of the food chamber, a cover structure comprising a primary cover for the opening through the exterior wall, a secondary cover for the opening in the food compartment, said primary and secondary covers being hinged to the exterior wall and interior food storage chamber respectively, and a link pivotally connected to both the primary and secondary covers whereby both covers move in unison in the same direction.

1,753,947. TWO-SIDED WINDOW-CLEANING DEVICE. SIMON SCHAPIRO, New York, N. Y. Filed Oct. 17, 1928. Serial No. 312,965. 3 Claims. (Cl. 15—126.)

1. A window cleaning device, comprising a U-shaped tube having an inner and an outer arm for being positioned respectively on the inner and outer side of a window, a flexible cable slidable within the U-shaped tube and of a length equal to the U-bend and the inner arm, a window contact member above the free end of the outer arm and connected by a rod with the end of the cable directed towards the outer arm, the said inner arm being formed with longitudinal parallel slots of different lengths connected with each other by transverse slots, and a handle for moving the cable extending thru one of said slots and movable into any of the slots for limiting the amount of motion of the cable.



1,753,948. METHOD OF AND MECHANISM FOR WORKING FIBROUS MATERIAL. JOHN NILSEN SELVIG, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 9, 1929. Serial No. 331,836. 14 Claims. (Cl. 92—41.)



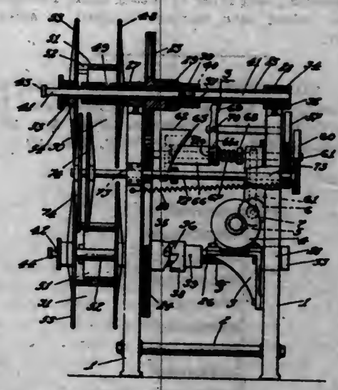
1. In a mechanism for working fibrous material upon a moving core, a carrier, and a member supported thereby for deflecting the moving core from its normal line of travel.

1,753,949. COIN-CONTROLLED CLOCK. WILLIS D. SHAFER, Chicago, Ill., assignor to Shafer-Halligan-Compton, Inc., Chicago, Ill., a Corporation of Illinois. Filed July 5, 1927. Serial No. 203,549. 7 Claims. (Cl. 194—55.)



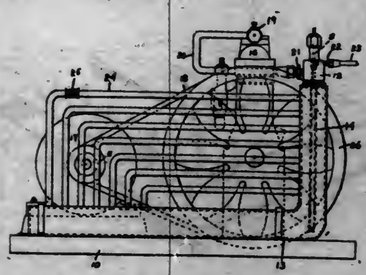
1. A coin controlled clock having a casing provided with a storage receptacle for the coins, clock mechanism, a lock for preventing the same from being wound, said lock being adapted to be released when pressed by a coin, a hand controlled temporary receptacle for temporarily holding a coin in position to press laterally upon the lock, and a stationary ejector projecting into the temporary receptacle for ejecting the coin therefrom when said temporary receptacle returns to non-acting position.

1,753,950. TAKE-UP MACHINE. FRANK H. SLEEPER, Worcester, and WILLIAM H. BLOUNT, West Brookfield, Mass., assignors to Sleeper & Hartley, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed May 20, 1926. Serial No. 110,531. 7 Claims. (Cl. 242—158.)



1. In a machine of the class described, a traversing mechanism comprising in combination a rotating driving member, a pair of take-up reels adapted to be selectively driven by said rotating member, a cam device, a traversing member common to both of said reels adapted to receive a reciprocatory motion from said cam device, and means for connecting said cam device to said driving member at the will of the operator.

1,753,951. CONDENSER FOR REFRIGERATING APPARATUS. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 4, 1927. Serial No. 196,409. 4 Claims. (Cl. 257—39.)



1. A condenser, for refrigerating apparatus, comprising a manifold having a base portion and an upstanding portion, tube sections extending intermediate said manifold portions, and an outlet conduit extending into said upstanding manifold portion.

1,753,952. REFRIGERATOR DOOR. CHARLES C. SPREEN, Detroit, Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 8, 1927. Serial No. 197,248. 3 Claims. (Cl. 20—35.)

1. A refrigerator door comprising a plurality of layers of plywood, a layer of heat insulating material interposed

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between certain of said layers, and a layer of relatively soft rubber completely enclosing said plywood and in-



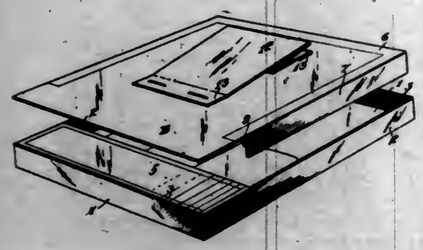
sulating material, said layer of rubber being provided with an integral raised bead member adapted to serve as a door gasket.

1,753,953. CONDENSER. CHARLES C. SPREEN, Detroit Mich., assignor to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Aug. 31, 1927. Serial No. 216,594. 4 Claims. (Cl. 257—39.)



1. In a heat exchange apparatus for a mechanical refrigerating system, a condenser, and means for causing cooling air to follow a sinuous path of varying cross-sectional area disposed in heat transfer relation to said condenser.

1,753,954. PACKING AND DISPLAY BOX. STEPHEN B. TOWNLEY, Newark, PHILIP B. TOWNLEY, Rumson, and WILLIAM LAING, Montclair, N. J., assignors to Paas Dye Company, a Corporation of New Jersey. Filed Oct. 8, 1928. Serial No. 311,030. 1 Claim. (Cl. 206—44.)



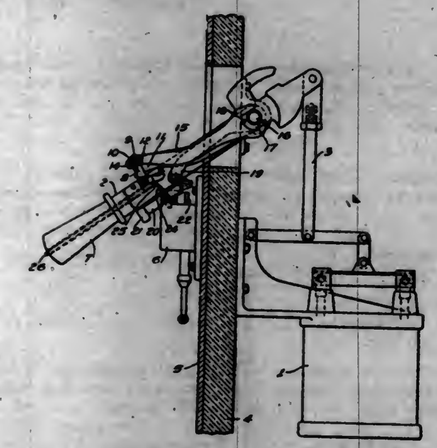
A packing and display box comprising two complemental telescoping sections each serving as a cover for the other when in telescoping relation and each having means adjacent one end thereof to support articles to be packed and displayed and having a space at the other end to receive said means and the articles supported thereby on the other section, one of said sections having a bottom, side flanges and end flanges and the other having a bottom, one end flange and side flanges each of which terminates short of the end of the bottom opposite said article-supporting means to provide a clearance for the article-supporting means of the first section when the sections are telescoped together.

1,753,955. CONDENSER. CHARLES B. TULEY, Glen Olden, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1928. Serial No. 308,750. 3 Claims. (Cl. 257—43.)



1. The combination with a tubular heat exchanger comprising a shell, a nest of tubes therein, inlet and discharge water boxes for the tubes, and partitions arranged in the water boxes to provide independent circulation systems for passing circulating media through the tubes in parallel, of means for passing circulating media through the independent circulating systems in series, and a common discharge connection on the inlet water box arranged to convey circulating media from either of the independent circulating systems.

1,753,956. CIRCUIT-INTERRUPTING MECHANISM. ALFRED T. TWISS, Trafford, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 27, 1927. Serial No. 163,913. 7 Claims. (Cl. 200—89.)



1. The combination with a circuit interrupter supported on the rear of a panel, of a tripping mechanism mounted on a cover-plate secured to the front of the panel, an operating member comprising separable elements, a latching means for uniting the separable elements, and a lever system connected to the latching means and to the tripping mechanism.

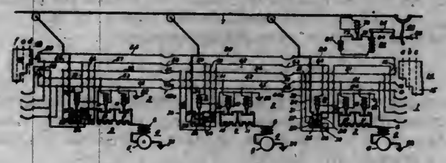
1,753,957. DISTRIBUTING DEVICE. WALTER BAILEY CHAFFIN WASHBURN, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a Corporation of New York. Filed Feb. 1, 1928. Serial No. 251,204. 5 Claims. (Cl. 312—42.)

1. A sheet metal distributing device, comprising a holder composed of a vertical chute, a forwardly and downwardly inclined portion extending from the rear wall of said chute and spaced away from the side walls of said



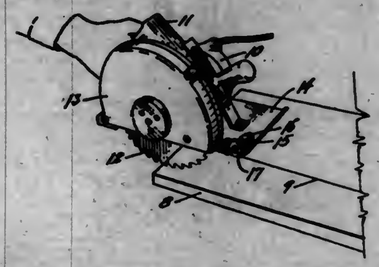
chute and terminating in an upwardly projecting abutment, and legs downwardly extending from the sides of said inclined portion, all of said parts being integral.

1,753,958. CONTROL SYSTEM. DONALD C. WEST, East Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 7, 1928. Serial No. 290,995. 11 Claims. (Cl. 172—179.)



1. In a control system having a rate of change circuit controlling device for a plurality of motor vehicles, each provided with a propelling motor, in combination, a source of power supply, a controller having a plurality of controlling positions, and means for connecting said motors to said power supply in a predetermined sequence in response to the actuations of said controller to one of said positions.

1,753,959. GUIDE WHEEL FOR WOODWORKING TOOLS. ALFRED WIKSTROM, Albuquerque, N. Mex. Filed Nov. 7, 1927. Serial No. 231,498. 3 Claims. (Cl. 143—157.)



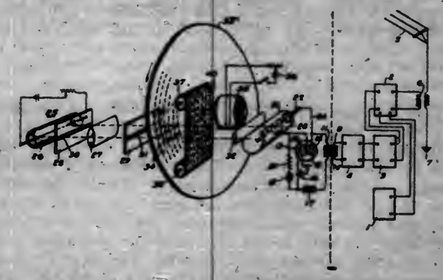
3. Means for guiding a power driven hand saw having a base shoe adapted to rest upon the work comprising: a wheel and means for securing said wheel to said base shoe so that it will project therebelow and travel on said work immediately ahead of said saw.

1,753,960. MARKER FOR PLANTS, FLOWERS, AND THE LIKE. FRANK W. WOLFF, Parnassus, Pa. Filed Nov. 22, 1928. Serial No. 321,249. 4 Claims. (Cl. 40—19.)



1. A marker of the character described comprising a stake member formed with a receptacle-receiving portion, and a closed label receptacle removably and slidably mounted in the receptacle-receiving portion of the stake member, said receiving portion including yielding elements for frictionally engaging the receptacle.

1,753,961. SIGNALING SYSTEM. VLADIMIR K. ZWORYKIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 19, 1927. Serial No. 234,371. 10 Claims. (Cl. 250—8.)

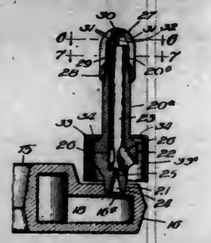


1. The method of signaling which comprises generating a carrier-wave, simultaneously impressing on said wave a plurality of modulating frequencies representative of minor portions of symbols adjacent to one another in a message to be transmitted, radiating said modulated wave, receiving said wave and producing therefrom a perceptible indication of said message.

1,753,962. GAS BURNER. SIMON J. LONERGAN, La Porte, Ind., assignor to Bastian-Morley Company, La Porte, Ind., a Corporation of Indiana. Filed Apr. 5, 1928. Serial No. 267,559. 44 Claims. (Cl. 158—99.)

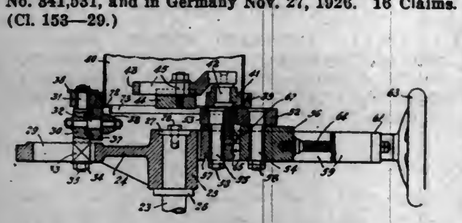
34. In a gas burner, means including a vertical mixing tube for forming a combustible mixture, and means mounted upon said tube for controlling the discharge of said preformed mixture, said latter means comprising a cap so shaped and adapted to fit over the discharge end of said tube in spaced relation thereto that a mixture-receiving chamber of substantially inverted U-shaped in cross section is provided, said cap having narrow, radial slots ex-

tending lengthwise thereof and terminating at its closed end portion, said slots being of such length that they extend in part parallel and adjacent to the side of the tube wall and in part above the end of the tube so that a part thereof is in direct line flow with the discharge end of said tube, and said slots being of such size that the total



area of that portion thereof in direct communication with the end of said tube is such that under certain gas pressure conditions the mixture discharged from the tube is delivered from said chamber through the direct flow slot portions as fast as it is fed into said portion whereby the mixture will burn, when ignited, at the surface only of said then-active and direct flow slot portions.

1,753,963. METHOD OF AND APPARATUS FOR FLANGING CONTAINERS. ALFONS MAUSER, deceased, Cologne-Marienburg, Germany, by Ferdinand Braun, Cologne, Germany, and RUDOLF EITH, Cologne-Ehrenfeld, Germany, executors. Filed Feb. 20, 1929, Serial No. 341,531, and in Germany Nov. 27, 1926. 16 Claims. (Cl. 153—29.)

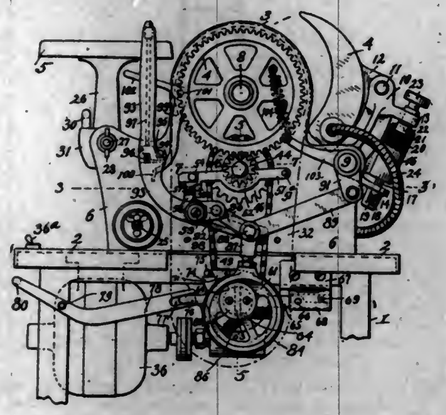


1. In an apparatus of the kind described, the combination with a support, of mechanism for supporting a metal container, an abutment member adapted to engage one face of said container near one edge thereof, a movable pressure device for exerting pressure against the other face of said container from its edge to a point on the container adjacent to said abutment and situated between said edge and said abutment, means for producing relative rotation between said container and said pressure device, and means for holding the portion of the container adjacent said edge parallel to the container axis.

14. The method of flanging cylindrical metal containers which comprises holding a container against radial movement at one face thereof at a point spaced from the edge thereof, exerting pressure by means of a pressure device against the opposite face of said container along a line from its edge to a point on the container adjacent said first named point disposed between said edge and said first named point, producing relative rotation between the said pressure device and the container, and simultaneously holding the end portion of the container adjacent to such edge parallel to the container axis.

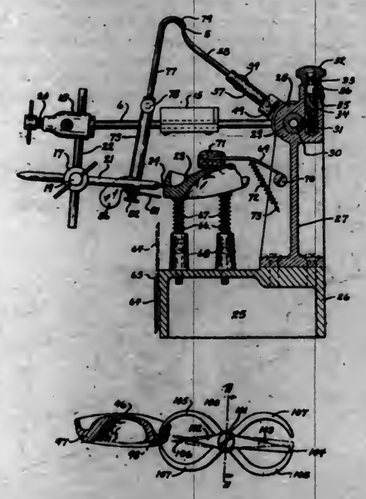
1,753,964. IRONING MACHINE. JOHN PRACHAR, Cleveland, Ohio, assignor, by mesne assignments, to Central National Bank of Cleveland, trustee, Cleveland, Ohio, a Corporation of National Banking Laws of America. Filed Jan. 16, 1926. Serial No. 81,614. 17 Claims. (Cl. 68—9.)

1. In an ironing machine, an ironing roll, a rock shaft extending longitudinally of the roll, a shoe carried by said shaft and pivotally supported adjacent its opposite ends on said shaft, a pair of arms rigidly secured to said shaft and yieldably connected to said shoe, and means for actuating said rock shaft to move the shoe into and out of engagement with the roll.



7. An ironing machine comprising a supporting frame, a roll, a shoe cooperating with the roll, a rock shaft connected with the shoe for actuating the same, a toggle having one of its links releasably connected to the frame and the other connected to said rock shaft for actuating the same, means for driving the roll, and a manually engaged and automatically released mechanism for actuating said toggle from said driving means to shift the shoe into or out of shoe engaging position.

1,753,965. APPARATUS AND METHOD OF MAKING DENTURES. EDWARD D. RALPH, Floral Park, Long Island, N. Y. Filed Feb. 26, 1927. Serial No. 171,225. 18 Claims. (Cl. 32—1.)



2. The method of manufacturing artificial dentures, consisting in placing the bite wax in the patient's mouth, having him bite on said wax while the wax is in a certain plane with relation to a point corresponding to the center of the curve of Spee, removing the bite wax from the patient's mouth and forming the curve of Spee in said bite wax by means of a knife movable universally about said center of the curve of Spee while the bite wax is held in the same plane with relation to the center of the curve of Spee as when in the mouth of the patient.

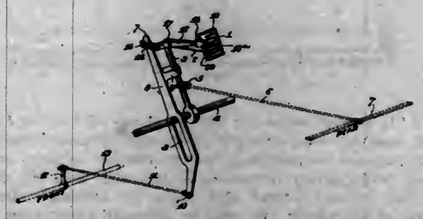
3. An apparatus for the manufacture of artificial dentures, consisting of a base, an adjustable arm supported by the base, a portion of the arm being adapted to be adjusted to correspond with the center of the curve of Spee of any particular patient, and a shaping tool adapted to be controlled by the portion of the arm that corresponds with the center of the curve of Spee of the patient to permit the shaping-tool to be moved universally about said center.

7. A new article of manufacture for assisting in determining the curve of Spee consisting in a combined gauge and carving tool having an adjustable arm, one end of which is adapted to be pivoted at a point corresponding to the center of the curve of Spee.

9. In an apparatus for the manufacture of artificial dentures consisting of a base, and a plurality of plungers forming an adjustable bed or support for a bite wax.

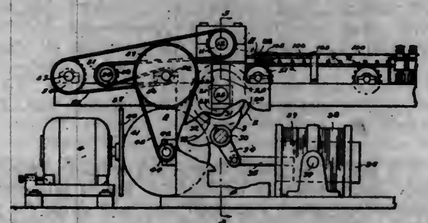
18. A new article of manufacture for indicating the variation to be made in the curve of Spee for irregularity or malformation of the jaw of the patient, consisting of two pivoted arms, and a third arm pivoted on the same pivot as the two arms, one end of the third arm being secured to one of the other arms, the other end being a pointer.

1,753,966. BRAKE-CONTROL MECHANISM. EARL J. W. RAGSDALE, Norristown, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 20, 1926. Serial No. 96,118. 4 Claims. (Cl. 188—204.)



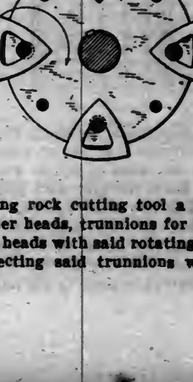
1. The combination with one brake mechanism and the usual lever and pedal for actuating the same, of a second brake mechanism having an actuating lever, said two levers having a common fulcrum, means whereby the second lever is operated by said pedal, and means carried by the said pedal and first lever for shifting the second lever relative to the fulcrum.

1,753,967. VENEER TRIMMER. THOMAS ROBINSON, Everett, Wash., assignor to The Coe Manufacturing Company, Painesville, Ohio, a Corporation of Ohio. Filed Nov. 24, 1925. Serial No. 71,092. 19 Claims. (Cl. 164—68.)



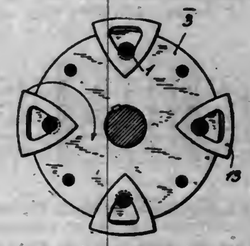
1. In a veneer jointer, a continuously operating feed mechanism, an intermittently operable jointing mechanism, an electrically operated jointing mechanism control, and a timing mechanism operating in unison of rate with the feed mechanism and having jointing mechanism control operating members optionally movable into working position and spaced at unit intervals.

1,753,968. GAS-CONTROLLING DEVICE. RALPH R. ROOT, Lakewood, Ohio. Filed Feb. 8, 1926. Serial No. 86,775. 2 Claims. (Cl. 236—32.)



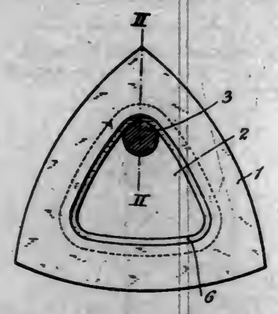
1. An apparatus adapted to be used with a water heater for controlling the flow of gas therethrough comprising an elbow-like casing adapted to have secured thereto and at right angles to each other a gas conduit and a conduit leading to said heater, said casing having a centrally disposed opening therethrough arranged to extend transversely of both of said conduits, a plug arranged in said opening and recessed adjacent one end, a passage in said casing and said plug connection the conduits through the recess in said plug, a valve in said casing adapted to close said recess, a second casing secured to said first named casing adjacent to one end of the opening therein, said second named casing being divided into two chambers by a flexible diaphragm connected to said valve, a third casing adapted to contain a gas and to be secured upon the device containing the medium to be heated and a tube connecting said second named and third named casings whereby when the gas contained within said last named casing becomes heated and expands the flexible diaphragm in said second named casing will be moved to actuate the valve to close the recess in the plug.

1,753,969. ROCK-CUTTING TOOL. OLE ROLFSEN, Knivso, near Halden, Norway. Filed July 26, 1929. Serial No. 381,286. 3 Claims. (Cl. 125—5.)



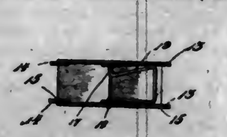
1. In a rotating rock cutting tool a rotating frame, a number of hammer heads, trunnions for rotatably connecting said hammer heads with said rotating frame and elastic means for connecting said trunnions with said rotating frame.

1,753,970. HAMMER HEAD FOR ROTATING ROCK-CUTTING TOOLS. OLE ROLFSEN, Knivsø, near Halden, Norway. Filed July 26, 1929. Serial No. 381,287. 4 Claims. (Cl. 125—5.)



1. In rotating rock cutting tools a hammer head provided with a hole for supporting the hammer head with loose play on a pin or trunnion, the interior surface of said hole being provided with a rubber lining the inner surface of which bears directly against the pin or trunnion on which the hammer head is supported.

1,753,971. BRACELET CHAIN. WILFRED J. ROY, East Orange, N. J., assignor to Gemex Company, Newark, N. J., a Corporation of New Jersey. Filed June 14, 1928. Serial No. 285,378. 3 Claims. (Cl. 59—80.)



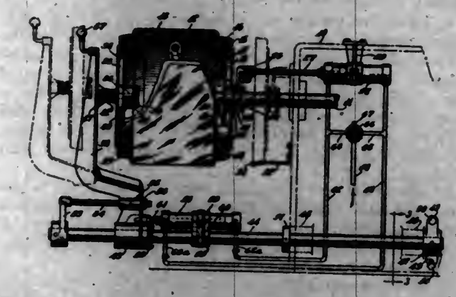
1. A chain comprising a series of units connected together, each unit having spaced substantially parallel side walls, the side walls of one unit having laterally displaced portions at one end thereof, the laterally displaced portions of one unit and the side walls of the adjacent unit being in contacting parallel relation and having registering openings therethrough, and resilient elements having folded ends forming fingers projecting into said registering openings and detachably connecting the units together.

1,753,972. CENTRIFUGAL APPARATUS. JOSEPH MARTIN SCHUTZ, Chicago, Ill., assignor, by mesne assignments, to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Original application filed Feb. 5, 1924, Serial No. 690,861, Patent No. 1,539,435. Divided and this application filed Mar. 3, 1925. Serial No. 12,899. 2 Claims. (Cl. 183—87.)



2. The herein described multiply tuyèred ring, comprising a circumferential series of angularly positioned blades all having the same direction, abruptly shouldered interlock spacing lands integral with each blade and successively interlocked one with another, serving to space the blades one from the other and thus forming a corresponding circumferential series of tuyères, and separable fastenings positioned intermediate the ends of the tuyères and serving to fasten each blade to the next blade in series.

1,753,973. TIRE-BUILDING APPARATUS. FRANK SLUSHER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 6, 1929. Serial No. 337,910. 20 Claims. (Cl. 154—10.)

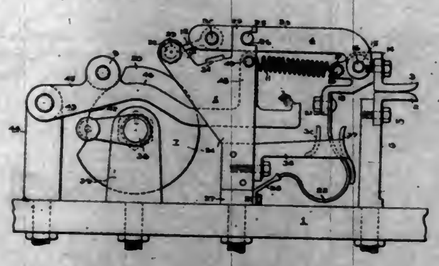


1. Tire-building apparatus comprising a rotatable tire-building form, a bead-guiding ring normally supported at a position offset from the axis thereof, and means for moving said ring from such position into association with said form whereby it is rotated by said form.

1,753,974. PROGRESSIVE DRY KILN AND METHOD OF DRYING LUMBER. JOHN B. WELCH, New Orleans, La. Filed Oct. 30, 1925. Serial No. 65,763. 9 Claims. (Cl. 34—46.)

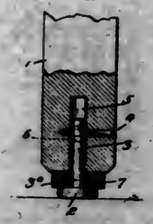
1. In a progressive dry kiln, an elongated heating chamber, heating coils arranged to provide different longitudinally spaced intensities of heat in different sections of the kiln, progressively increasing in intensity from the green to the dry end thereof, and means for causing recirculation of the air in the kiln in different paths from the different sections to the dry end of the kiln.

1,753,975. CONTROL APPARATUS. JOHN T. WELSH, Westfield, N. J. Filed Mar. 2, 1927. Serial No. 172,040 10 Claims. (Cl. 200—67.)



1. A switch comprising cooperating contact members, a single spring pivotally connected to one of said contact members and means associated with said spring for providing a snap opening and closing movement of said contact members through the action of said spring, and for also providing rolling action between said contact members.

1,753,976. GLIDE. CLARENCE WATSON WHITE, North Bennington, Vt., assignor to H. C. White Company, North Bennington, Vt., a Corporation of Vermont. Filed Sept. 7, 1929. Serial No. 390,928. 4 Claims. (Cl. 16—42.)



1. A tip or glide for movable furniture, comprising the combination with a member having a passage therein, of a glide having a shank loosely entering said passage, an elastic cushion between the glide and the said member and carried by the glide, and means for preventing the glide shank from dropping out of the said passage when the furniture is lifted off the floor.

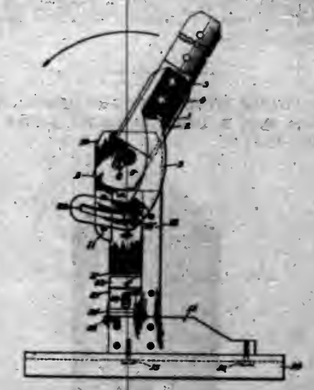
1,753,977. SWITCH. ROBERT K. WINNING, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis. Filed Dec. 5, 1925. Serial No. 73,466. 41 Claims. (Cl. 200—11.)



1. In a device of the character described, the combination with a terminal head of dielectric material and a ring contactor oscillatory with respect thereto and provided with axially embossed segmental contact portions, of a plurality of strip terminals extending through said head in arcuate series and having contact portions disposed flat against said head, and a di-electric support connected with said head and projecting therefrom to a distance substantially equal to the thickness of said contact portions of said terminals and disposed in the arc of said series of terminals and between two of said terminals.

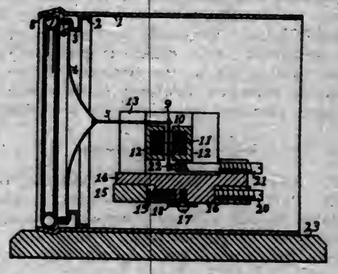
1,753,978. TOY AXLE STAMPING AND CUTTING MACHINE. CHARLES A. WOOD, Clay Center, Kans. Filed Apr. 10, 1929. Serial No. 354,085. 1 Claim. (Cl. 29—34.)

In a mechanism for forming axles for wheeled toys, to trim and flatten the end of the axle, a stamping element comprising two jaws, one stationary and one movable and the movable jaw being separately slidable from the stationary jaw and being propelled toward the stationary jaw by a cam surface on a lever and being retracted from the stationary jaw by reason of a laterally extending pin engaging in an arcuated slot in an arm connected to the lever, and a shearing member propelled past the edge of the stationary jaw in the manner of a cutter and the propulsion of the shearing member being actuated by another cam surface on the lever and being retracted by reason of a laterally extending pin engaging in an arcuated slot in



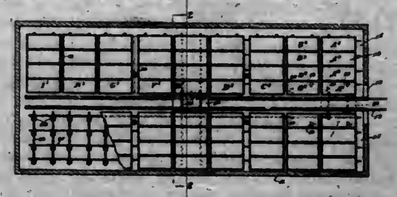
an arm affixed to the lever and the actuating cam mechanism timed to propel the flattening and shearing members in the same movement of the lever.

1,753,979. ACOUSTIC DIAPHRAGM AND LOUD-SPEAKER COMBINATION. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed Feb. 10, 1926. Serial No. 87,362. 2 Claims. (Cl. 179—115.)



1. A diaphragm having a cuspidal middle portion and a re-enforcing rim, a housing for said diaphragm, an annular seat for said diaphragm secured to said housing, an annular inclined surface in said housing, and an expansible ring pressing against said inclined surface and against said rim and adapted to put tension on said diaphragm by pressing it against said seat.

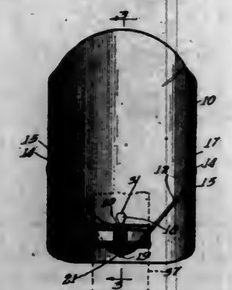
1,753,980. MEANS FOR UTILIZING THE WASTE SPACE IN HOTHOUSES. EMIL BAUMGARTNER, Nanuet, N. Y. Filed May 17, 1928. Serial No. 278,379. 11 Claims. (Cl. 47—17.)



1. In a hot house the combination of a flooring, a rail track, embedded in said flooring, extending longitudinally in approximately the middle of the hot house, a system of side tracks, arranged parallel to each other, disposed perpendicularly and spacedly elevated relative to aforesaid longitudinal rail track, a platform, movably ar-

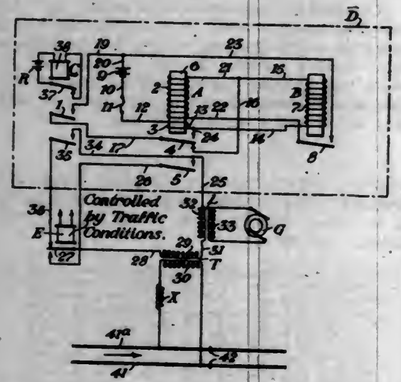
ranged on aforesaid longitudinal rail track, provided with rails connecting the elevated tracks on the sides of the longitudinal rail track, and a plurality of wheel actuated movable benches spacedly arranged back to back on said elevated tracks.

1,753,981. LAMP SHADE. ROBERT BEARDSLEY, Chicago, Ill. Filed Mar. 5, 1926. Serial No. 92,628. 1 Claim. (Cl. 240—140.)



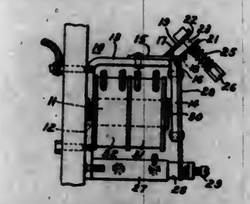
In a device of the class described, the combination of a shade, a clamping means for securing said shade in place, an upright with which said securing means is attached, a cross bar to which said upright is connected, said cross bar being bent intermediate its ends to provide supporting arms, the upright being connected to the cross bar at the bend and projecting in the same direction as said arms, the extremity of each arm being connected with opposite sides of the shade, said upright providing a pivot for an element of the clamping means and providing means for holding one of the elements of the clamping means against movement relatively to the other, and said upright being arranged transversely to said clamping elements.

1,753,982. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. PAUL N. BOSSART, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 9, 1929. Serial No. 377,040. 14 Claims. (Cl. 246—34.)



1. In combination, a stretch of railway track, a contact mechanism which is periodically operated, two relays, means controlled by said contact mechanism and by both said relays for energizing one of said relays one time each two times said contact mechanism is operated, a source of train controlling current, and means for supplying current from said source to the rails of said stretch under the control of said contact mechanism or said one relay in accordance with traffic conditions.

1,753,983. CONTROL SYSTEM. WILLARD G. COOK, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 13, 1928. Serial No. 305,755. 8 Claims. (Cl. 175—337.)

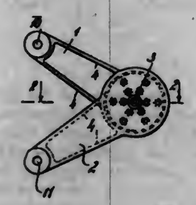


1. In a relay in combination, a core member, an adjustable spring-biased armature disposed in alignment with the core member, a main coil for magnetizing the core member to effect the operation of the armature, an auxiliary coil disposed to dissipate the residual magnetism in the core member when the main coil is deenergized, thereby to increase the time during which the magnetism of the core dissipates at a rapid rate and the period of time during which positive functioning of the armature may be obtained at any predetermined time interval.

1,753,984. METHOD OF ACTIVATING CHARCOAL. GEORG ENSSLE, Constance, Germany, assignor to Holzverkohlungs-Industrie Aktiengesellschaft, Constance, Baden, Germany, a Corporation of Germany. Filed Feb. 6, 1929, Serial No. 338,019, and in Germany Jan. 13, 1928. 1 Claim. (Cl. 252—3.)

The method of producing activated charcoal which comprises treating charcoal with a mixture of gases, free of oxygen, containing at least 40% of carbon dioxide and a substantial component of a combustible gas.

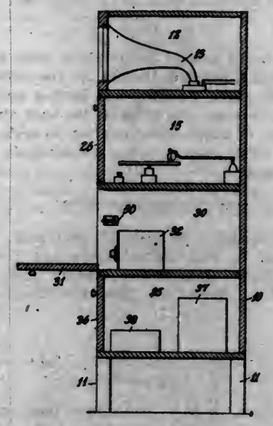
1,753,985. FLEXIBLE JOINT. GERHARD FLINTERMANN, Orange, N. J. Filed Feb. 18, 1926. Serial No. 89,251. 7 Claims. (Cl. 267—21.)



1. A flexible joint comprising two relatively movable members, an intervening body of flexible material, each of said members being a metal stamping having projections drawn or stamped thereon and extending toward said body of flexible material, said body of flexible material having openings to receive said projections, and at least one metallic reinforcing plate adjoining at least one of said members, said plate having projections stamped thereon engaging in the recesses at the back of the projections on said member.

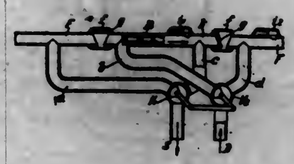
1,753,986. COMBINED ELECTRICAL PHONOGRAPH AND RADIOCABINET. HENRY L. GRIGGS, Pelham, N. Y., assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn., a Corporation of Connecticut. Filed June 13, 1925. Serial No. 36,854. 5 Claims. (Cl. 179—100.4.)

2. A musical cabinet embodying a casing providing a phonograph compartment, a turntable therein and an electrical reproducer unit associated therewith; a radio compartment, and a radio receiving unit therein; a loud-speaking receiver common to both units, and circuits thereto from said units; means to close the respective cabinets; and means controlled thereby for controlling



the circuits to the loud-speaking receiver to complete the one circuit thereto upon opening a corresponding cabinet and simultaneously opening the circuit from the other cabinet thereto.

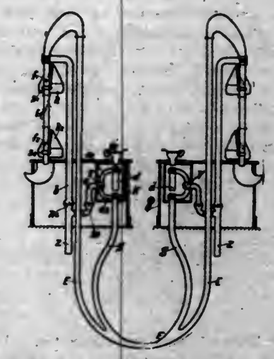
1,753,987. TUBULAR POSTAL SYSTEM. WILHELM HÖHNE, Berlin-Charlottenburg, Germany, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Filed Jan. 31, 1929, Serial No. 336,537, and in Germany Feb. 15, 1927. 13 Claims. (Cl. 243—2.)



1. In a tubular postal system divided into sections the combination with the adjacent ends of the conveying tubes at a division point of a connecting chamber between said adjacent ends, closure members, one for each of the ends of the conveying tubes at the division point and located at opposite ends of said chamber, and means for supplying and exhausting an actuating fluid to and from said chamber.

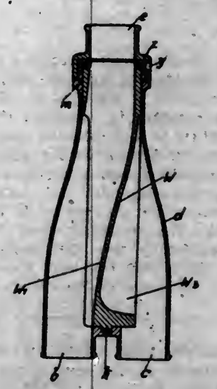
1,753,988. TUBULAR POSTAL DISPATCHING STATION. WILHELM HÖHNE, Berlin-Charlottenburg, Germany, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Filed Jan. 31, 1929, Serial No. 336,539, and in Germany Feb. 2, 1927. 9 Claims. (Cl. 243—2.)

1. In a tubular postal system the combination with a conveying tube of a transmitting chamber located opposite one end of said conveying tube, a closure member for closing the end of said transmitting chamber adjacent the conveying tube, a closure member adapted to close the other end of said transmitting chamber, means for actuating said closure members so that when one is in the open position the other is in the closed position, and means for supplying an actuating fluid to said transmitting chamber



and to said conveying tube, and a closed chamber in which the transmitting chamber and the adjacent end of the conveying tube are located.

1,753,989. SWITCH POINT FOR TUBULAR POSTAL SYSTEMS. WILHELM HÖHNE, Berlin-Charlottenburg, Germany, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Filed Mar. 14, 1929, Serial No. 346,876, and in Germany June 23, 1926. 13 Claims. (Cl. 243—30.)

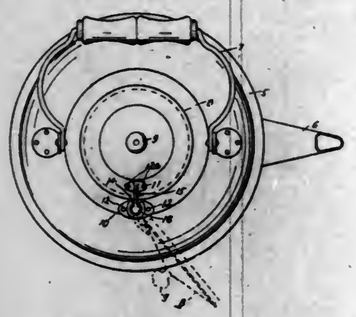


1. A switch point for tubular dispatch systems comprising a casing having a single tube receiving aperture at one end and a plurality of tube receiving apertures at its other end, and a rotatable body mounted in said casing adapted to form communication between the single tube receiving aperture and one of the other tube receiving apertures, and a gear wheel keyed to said body, adjacent one end thereof, said casing having an aperture therein adjacent said gear wheel whereby actuating means may be engaged with said gear wheel.

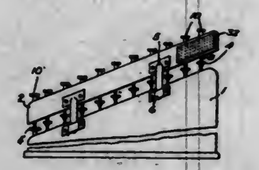
1,753,990. HINGE ATTACHMENT FOR KITCHEN UTENSILS. HENRY KOHLMAN, St. Paul, Minn. Filed Sept. 15, 1926, Serial No. 135,567. Renewed Sept. 6, 1929. 1 Claim. (Cl. 53—8.)

In a utensil of the class described having a cover, a hinge member connecting the cover with the utensil and

comprising a ball and socket joint of which the socket member is secured to the utensil in proximity to the said cover, said ball member engaged in said socket and including an arched integral arm extending toward and fixed to said cover at a point inwardly of the perimeter of the cover.



1,753,991. KEYBOARD OPERATOR. LEONARD W. LANGFORD, Boston, Mass. Filed Apr. 18, 1927. Serial No. 184,773. 8 Claims. (Cl. 197—19.)



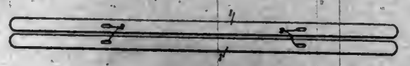
1. A keyboard operator comprising the combination of a frame, means adapted to support the frame over a keyboard to be operated, a plurality of solenoids carried by the frame for respectively operating the keys of the keyboard, an armature in each solenoid, means cooperating with each armature to depress its key when the solenoid is energized, a controlling button on the frame for each solenoid, means cooperating with each button for closing its solenoid circuit when the button is depressed, and means operated by the armature when the solenoid is energized to automatically open the circuit and hold the same open until the circuit has been opened at another point upon return movement of the armature.

1,753,992. SCRAPER FOR VEHICLE TIRES. LOUIS LARSON and DANIEL M. LARSON, Hannaford, N. Dak. Filed Feb. 13, 1928. Serial No. 253,987. 3 Claims. (Cl. 280—158.)



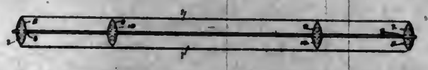
3. The combination with a tire on the wheel of a vehicle, of an arcuate shoe mounted on the vehicle body above the ground engaging surface of the tire to oppose the tire, said shoe having upper and lower end walls extending substantially tangentially respective to the tire in opposite directions, said end walls being in close proximity to the tire and a scraper blade secured to one of said end walls and adjustable tangentially thereon to and from the tire.

1,753,993. BUMPER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass and Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed July 26, 1928. Serial No. 295,416. 6 Claims. (Cl. 293—55.)



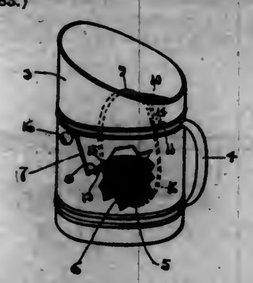
1. In a bumper, a pair of bumper bars, each bar having a series of holes arranged therein in the same relative position to each other, clamp means having studs thereon and projecting through the holes in the bars and adapted to hold the bars in fixed spaced relation to each other, the bars and the clamp means being permanently united to form a rigid bumper.

1,753,994. BUMPER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass and Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed July 26, 1928. Serial No. 295,417. 9 Claims. (Cl. 293—55.)



1. In a bumper, a pair of bumper bars arranged in parallel spaced relation to each other, and a plurality of clamp members welded to the bars and holding them in said spaced relation to each other, each clamp member having a spacer lug extending between said bars.

1,753,995. FLOUR SIFTER. THOMAS G. MELISH, Cincinnati, Ohio, assignor to The Bromwell Wire Goods Company, Cincinnati, Ohio, a Corporation of Delaware. Filed June 18, 1926. Serial No. 116,905. 1 Claim. (Cl. 209—283.)



A sifter comprising a body having perforations in the opposite sides thereof, a screen in the body through which to sift the contents thereof, and an agitator in the body adjacent to and adapted to pass over the surface of the screen to promote passage of the body contents through the screen, said agitator consisting of a single piece of wire bent upon itself at approximately the middle of its length to form a journal to occupy one of the body perforations, each branch of the wire adjacent the journal being shaped to the screen and lying in the plane of its cooperating branch, the ends of the branches being bent to lie together loosely and to occupy the opposite body perforation, one of said ends terminating just beyond the perforation and the second end bent beyond the perforation to provide a crank whereby to rotate the agitator.

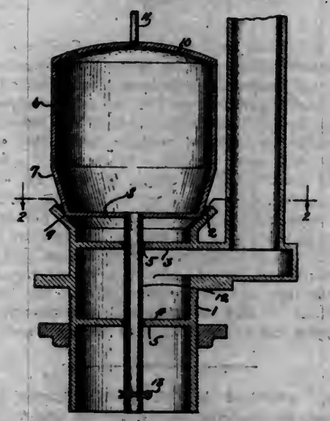
1,753,996. BUST SUPPORTER. DAVID H. MILLMAN, New York, N. Y. Filed Apr, 18, 1928. Serial No. 270,829. 1 Claim. (Cl. 2—42.)

A bust supporter comprising a strip of material adapted to encircle the body of the wearer at the height of the busts, folds extending from the top and bottom edges of the strip inward to form substantially semispherical bust members,



and inelastic lacing connecting the adjacent edges of pairs of folds for changing the distance between the folds for changing the size of the semispherical bust members.

1,753,997. FLUSHING APPARATUS. FREDERICK OPPERMAN, Greenwich, Conn. Filed Nov. 8, 1927. Serial No. 231,819. 6 Claims. (Cl. 4—57.)



5. In flushing apparatus, the combination of a metallic valve having a frusto-conical formation, a tapered seat therefor, the seat being tapered at a greater angle than the valve so as to provide a line contact between the valve and seat below the top of the seat.

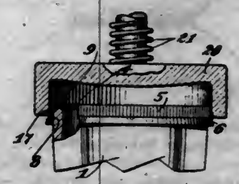
1,753,998. LACQUERING MACHINE AND OVEN. ABRAHAM PODEL, Long Island City, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Oct. 18, 1924. Serial No. 744,340. 16 Claims. (Cl. 91—55.)



2. In an apparatus of the class described, in combination, a machine for coating on side of the sheet material, automatic means for feeding individual sheets from a stack to said coating machine, an oven for partially baking the coating on the sheets received from the coating machine, a second coating machine for coating the other side of the sheet material received from the oven, a second oven for receiving the sheets from the second coating machine and for completely baking both sides of the sheets, a source of power for said second coating machine to permit independent operation thereof, a common source of power for the other elements of the apparatus, and devices for controlling certain of said machines connected to the common source of power without affecting other machines.

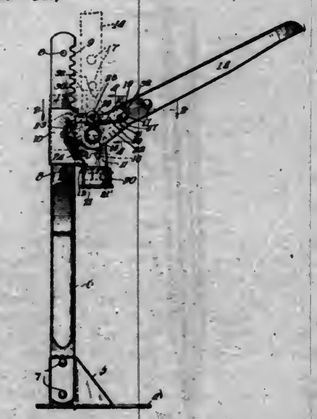
13. In a machine of the class described, the combination of a machine for applying lacquer to one side of sheet material such as tin and the like, an automatic feeding machine for feeding said sheet material from a stored supply individually to said lacquering machine, an oven having a conveyor therein for receiving the sheets from said lacquering machine, a second oven and a lacquering machine between said ovens adapted to coat the other sides of said sheets and deliver them to the second oven, a shaft extending along the sides of said oven operatively connected to drive the conveyors in said ovens, and means for disconnecting the respective conveyors in said ovens from said shaft independently.

1,753,999. HERMETICALLY-SEALED PACKAGE AND METHOD OF SEALING. ABRAHAM PODEL, Bronx, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Apr. 21, 1927. Serial No. 185,478. 13 Claims. (Cl. 215—40.)



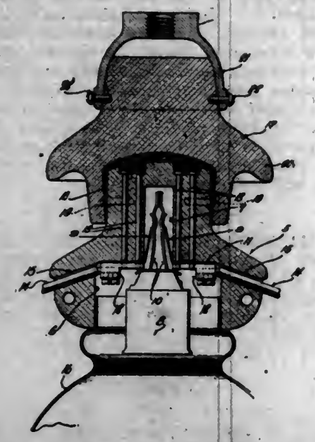
1. A hermetically sealed package comprising a container having a substantially cylindrical side wall, a closure cap having a cover portion and a substantially cylindrical depending skirt, and a gasket in said skirt extending substantially the entire height thereof, the cover portion of said cap being mechanically flexed and permanently set downwardly into the mouth of the container independently of the internal conditions of the container to pull the skirt of the cap toward the side wall of the container.

1,754,000. BOTTLE CAPPER. HAROLD G. RICE, Chicago, Ill. Filed Feb. 1, 1928. Serial No. 251,074. 15 Claims. (Cl. 226—84.)



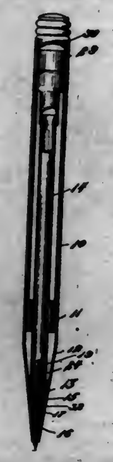
1. A bottle capper comprising a frame, a rider slidable on the frame, a lever pivoted on the rider and engaging the frame to reciprocate the rider, a capping head carried by the rider, means for resiliently urging said lever toward a raised position and means to positively limit the upward movement of the lever below a substantially vertical position.

1,754,001. LIGHTING FIXTURE. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor, by mesne assignments, to Line Material Company, South Milwaukee, Wis., a Corporation of Delaware. Filed Mar. 26, 1927. Serial No. 178,578. 5 Claims. (Cl. 173—365.)



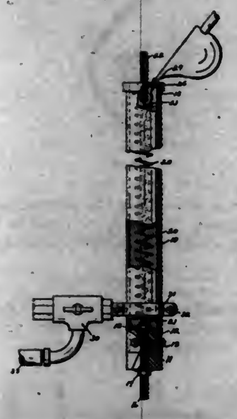
1. The combination with a lighting fixture for use with relatively high voltages having a housing comprising an irregularly shaped body member with a plurality of apertures, which member due to such irregular configuration is formed of insulating material incapable of safely withstanding relatively high voltages, of an insulating member having the capacity to successfully withstand such voltages, means connecting the latter insulating member with the body member of the fixture, and a supporting member for the fixture connected with the second mentioned insulating member.

1,754,002. MECHANICALLY-FED LEAD PENCIL. ROY C. STOWE, Providence, R. I., assignor to A. T. Cross Pencil Co., Providence, R. I., a Corporation of Rhode Island. Filed July 12, 1926. Serial No. 121,771. 3 Claims. (Cl. 120—18.)



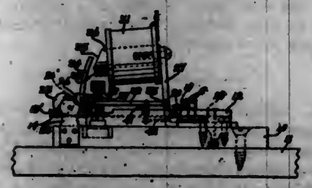
3. In a mechanically operated pencil, a barrel ending in a tapered sleeve portion, a lead propelling movement unit including a tapered bushing in said sleeve portion and a threaded member secured to and projecting beyond said bushing, and a point end member engaging said threaded member for securing said movement in said barrel.

1,754,003. TUBULAR HEATING UNIT. CHARLES T. JOHNSON-VEA and WILLIAM A. BRAUN, Dover, Ohio, assignors to Dover Manufacturing Company, Dover, Ohio. Filed Aug. 14, 1926. Serial No. 129,186. 4 Claims. (Cl. 201—64.)



1. The method of making tubular heating units consisting in suspending a resistance element axially within a tube, providing the same with suitable terminals such as binding posts, closing one end of the tube and supporting it in an upright position with the other end uppermost and open, vibrating the tube in a horisontal plane and simultaneously filling it with an embedding material composed of a mixture of granular materials of different sizes and having different melting points whereby the material is capable of being converted into a unitary stone-like nonhygroscopic mass when heated without melting the more refractory portion of said material, and then heating the tube and its contents to melt the less refractory portions of said material and subsequently capping the uncapped end of the tube with the terminals exposed.

1,754,004. SWITCH MECHANISM. LOUIS J. WICK, Highland, Ill., assignor to Wicks Pipe Organ Co., Highland, Ill., a Corporation of Illinois. Filed July 28, 1928. Serial No. 295,940. 7 Claims. (Cl. 200—104.)

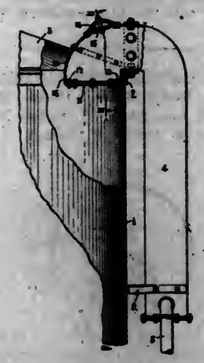


1. In a switch mechanism, parallel contact elements, a roller of insulating material, a contact bar mounted longitudinally of said roller and extending from its surface for swingingly engaging said elements to provide a wiping contact, and curved portions on some of said elements to continuously engage said contact bar during its swing, while the other ones of said elements are straight and become engaged by said bar upon the rotation of said roller and the swinging of said bar.

1,754,005. OIL-TANK FIRE PROTECTION. WILLIS D. WITTER, Utica, N. Y., assignor, by mesne assignments, to American La France and Foamite Corporation, a Corporation of New York. Filed Mar. 29, 1926. Serial No. 98,242. 3 Claims. (Cl. 169—4.)

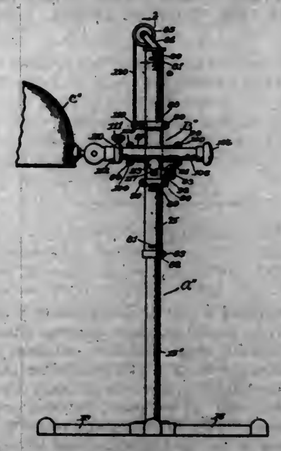
1. In oil tank fire protection systems, the combination of the oil tank, a foam conduit secured to the wall thereof

for conducting foam from the outside to the oil inside of said tank, a vapor-excluding diaphragm extending across the path of the foam through said conduit at a point inside of the oil tank, said diaphragm being normally subject to equal pressures on its opposite sides but adapted



to break down and permit foam flow merely by the pressure of the foam thereagainst, a seat provided on the conduit and with which said diaphragm makes a vapor-proof joint, and an access opening and removable cover plate adjacent said seat and through which a person outside of the tank may adjust or renew said diaphragm.

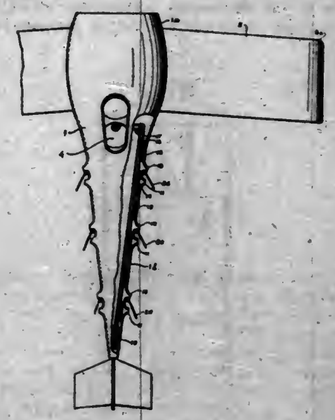
1,754,006. SUPPORT. FRITZ A. ANDERSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed Aug. 8, 1925. Serial No. 49,060. 14 Claims. (Cl. 248—5.)



1. In a support the combination of a standard, a bracket-carrying frame including a grooved envelope encircling the standard and a cap on the standard for suspending the envelope therefrom in an axially fixed position, a bracket carried by the frame, and means between the bracket and frame for permitting the bracket to move axially upon the frame and for causing the frame to rotate with the bracket.

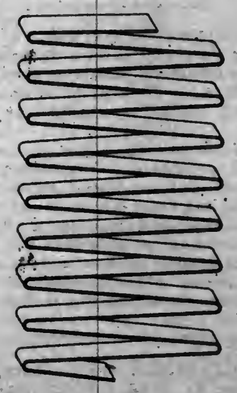
1,754,007. AIRCRAFT. AUSTIN G. BOLDRIDGE, Houston, Tex. Filed July 8, 1927. Serial No. 204,264. 2 Claims. (Cl. 244—18.)

1. An aircraft having a casing substantially conical in form, the base or front end of said casing being open, said casing having longitudinal ports opening laterally and upwardly, and additional ports in its sides and bottom, laterally extending wings on said casing immediately above



said longitudinal openings, the tips of said wings being presented downwardly and outwardly, a propeller positioned within said casing to direct air through said ports, and valves to control the passage of air through said ports.

1,754,008. METHOD OF MAKING DUCTILE IRON CHROMIUM ALUMINUM ALLOYS. VERE B. BROWNE, Brackenridge, Pa. Filed Dec. 19, 1927. Serial No. 241,208. 3 Claims. (Cl. 148—12.)



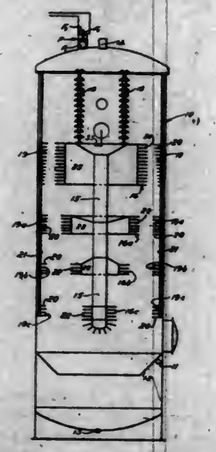
2. The method of making a ductile article from an iron chromium aluminum alloy having a chromium content of about 10–20%, an aluminum content of about 3–10% with the remainder principally iron, which consists in casting an ingot of such alloy, heating the ingot to about 2000° F., reducing the same materially by heating and rolling in successive steps at progressively decreasing finishing temperatures, making a final material reduction at a temperature below 1400° F., and then annealing at about 1400° F.

1,754,009. DEHYDRATION OF OIL AND WATER EMULSIONS. JOHN M. CAGE, Los Angeles, Calif., assignor, by mesne assignments, to Dehydrators Incorporated. Filed Sept. 17, 1927. Serial No. 220,169. 7 Claims. (Cl. 204—24.)

7. Apparatus for the system herein described, comprising a suitable tank with provisions for flowing an emulsion

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through it, a series of electrode sets arranged in the path of the flow of emulsion, the spacings of the electrode sets being progressively diminished in the direction of emulsion flow, and said progressive dimunition being directly proportionate to the decreasing conductivity of an emulsion as its relatively electrical conductive component is pro-

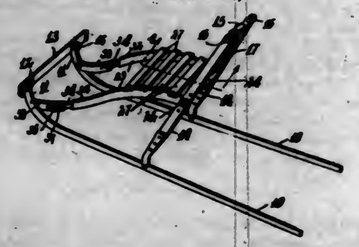


gressively removed, and means for applying to the electrode sets as a whole a potential varying inversely as the total conductivity of an emulsion flowing between all the electrode sets, said means including an instrument actuated by the current flowing through the emulsion, and voltage control circuits controlled by said instrument.

1,754,010. ACCELERATOR FOR THE VULCANIZATION OF RUBBER. ADRIEN CAMBRON, Tottenville, N. Y., assignor to The Roessler & Hasslacher Chemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1926. Serial No. 82,613. 18 Claims. (Cl. 18—53.)

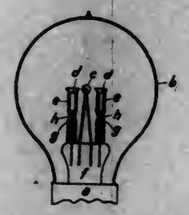
5. A process for treating rubber or similar material, which consists in combining an unvulcanized rubber, a vulcanizing agent, and the product obtained by reacting, under essentially anhydrous conditions and in the presence of a small amount of acidic material, a primary aromatic mono-amine containing not more than two methyl groups attached to the benzene nucleus, and an aldehyde from the group comprising crotonaldehyde and the saturated aliphatic aldehydes containing two to four carbon atoms inclusive.

1,754,011. COLLAPSIBLE SLED. LESTER J. CLARKE, New York, N. Y. Filed July 27, 1928. Serial No. 295,660. 3 Claims. (Cl. 280—23.)



1. In a device of the class described, comprising a pair of runners, upright seat back rods pivotally connected at their lower ends to said runners, a transverse bar supported between said rods, rear leg sections having reduced forward ends, the rear ends of said sections attached to said bar, seat strips carried on said sections, and front leg sections also pivotally attached to said runners and having apertures in their rear ends for adjustably receiving the reduced ends of said rear leg sections, the length of the combined leg sections being therefore adjustable for varying the tilt of said upright seat back rods.

1,754,012. INCANDESCENT-CATHODE RECTIFIER FOR MEDIUM VOLTAGES. BRUNO DÖNATH, Berlin, Germany. Filed Dec. 24, 1927, Serial No. 242,379, and in Germany Jan. 4, 1927. 2 Claims. (Cl. 250—27.5.)



1. An incandescent cathode rectifier for medium voltages having anodes, a cathode, a base supporting the electrodes, non-conducting tubes attached to the base of the rectifier and mounted to screen the anodes one from the other, said tubes surrounding the anodes without coming into contact with them and each having a constricted portion therein between the anodes and the base, and the upper edges of the tubes projecting slightly above the upper edges of the anodes.

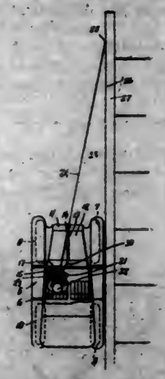
1,754,013. HINGE. JOSEPH FISHER, Beacon Falls, Conn. Filed Jan. 12, 1928. Serial No. 246,368. 1 Claim. (Cl. 16—169.)



A hinge comprising a pair of complementary sheet-metal leaves respectively folded at their adjacent edges to form spaced-apart tubular hinge knuckles, substantially cylindrical in exterior form; a pintle extending through the said tubular knuckles for pivotally-coupling the two said leaves together; and a combined finishing and pintle-retaining finger forming an integral extension from the outer end of one of the said knuckles and having substantially-parallel sides, and folded over the outer end of the said knuckle at a right angle and of a length sufficient to snugly overlie and close the pintle-receiving opening in the said knuckle, and merging symmetrically into the cylindrical exterior form thereof when so folded thereover at a right angle.

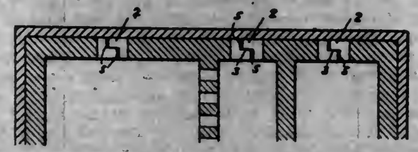
1,754,014. INDICATOR FOR PARKING ROAD VEHICLES. CLARENCE BERNARD FOWLER, Queens Village, N. Y. Filed Apr. 21, 1928. Serial No. 271,751. 2 Claims. (Cl. 88—1.)

1. In an indicator for alining road vehicles a predetermined distance from the edge of a road the combination, with a vehicle body carrying a sighting object located in a fixed position relatively thereto, and also carrying a mirror, of a blinder plate disposed adjacent said mirror and provided with a peep hole for indicating to the operator when his head is brought into a predetermined exact



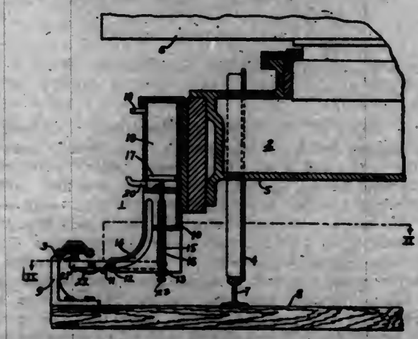
position relatively to said vehicle body and to said sighting object, in order to enable the operator to glance along a definite collimation line grasing said sighting object.

1,754,015. FIRE-BRICK CONSTRUCTION. HERBERT HEITMAN, Woodhaven, N. Y., assignor to The Fred'k Page Contracting Company, Inc., New York, N. Y., a Corporation of New York. Filed June 26, 1928. Serial No. 288,310. 2 Claims. (Cl. 72—107.)



1. An L-shaped fire brick having arms of substantially equal width and adapted in pairs and in opposite disposition with the faces of the intermediate portions in contact and with the faces of the adjacent portions in spaced relation to provide longitudinal gas tight expansion joints in and flush with both faces of refractory linings intermediate of the ends thereof.

1,754,016. CURRENT-COLLECTING DEVICE. DAVID C. HERSHBERGER, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 25, 1927. Serial No. 215,393. 9 Claims. (Cl. 191—49.)



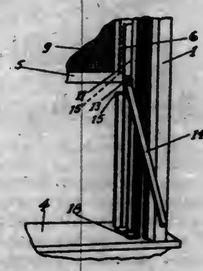
1. A current collector comprising a supporting member provided with a curved guideway, a contact-carrying arm slidably fulcrumed in said curved guideway and means for actuating said contact-carrying arm.

1,754,017. POLYPHASE COMMUTATOR DYNAMO-ELECTRIC MACHINE. ALEXANDER HEYLAND, Brussels, Belgium. Filed Mar. 27, 1925, Serial No. 18,922, and in the Netherlands May 12, 1924. 1 Claim. (Cl. 172—280.)



A nonsalient pole commutator machine having a winding for the stator, the mean resultant winding pitch of which is less than that of the winding for the rotor, the ampere turns of the stator between the phase axes being less than the resultant of the rotor ampere turns between the phase axes, so that between the phase axes the rotor field is greater than the stator field and nonsalient commutating fields are produced.

1,754,018. WINDOW SCREEN. HENRY HIGGIN, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a Corporation of West Virginia. Filed June 22, 1925. Serial No. 38,682. 3 Claims. (Cl. 156—14.)

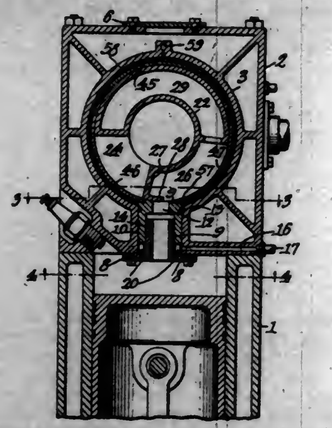


3. A guide for a window screen comprising a back portion and two side portions extending therefrom so as to form a channel, a portion of one of said side portions being free of the back and hinged to the remainder of said side portion so as to swing into and out of channel-forming relationship, and a lock comprising a member extending at an angle from said guide beyond the free end of said hinged portion so as to be cleared thereby, and a second member hinged to the outer end of the first member so as to lie in substantial alignment with it in one position, and in another position to overlie it, the free end of said second member adapted when in the latter position to hold the free end of the hinged portion in channel-forming relationship with said back and the other side member.

1,754,019. ROTARY VALVE. FREDERICK J. HOLMES, Detroit, Mich., assignor to United States Trust Company, Detroit, trustee, a Corporation. Filed June 7, 1928. Serial No. 283,619. 12 Claims. (Cl. 123—190.)

1. In an internal combustion engine the combination with a cylinder block, a head thereon having an interior valve casing, there being a port extending from the interior of the cylinder block into the valve casing, of a rotary valve within the casing, a guide member within and spaced from the walls of the port, a takeup member slidable upon the guide member and within the port, there being a lubricant pocket around the guide member and

back of the takeup member, and resilient means normally submerged in lubricant within the pocket for holding the



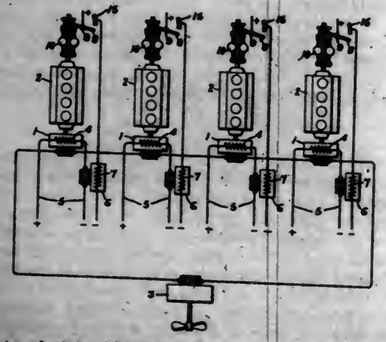
takeup member pressed against the periphery of the valve, said takeup member having an opening for communication with the ports in the valve and with the port in the head.

1,754,020. EGG RACK. ALBERT J. HYDE, Portland, Oreg. Filed May 8, 1929. Serial No. 361,499. 2 Claims. (Cl. 211—13.)



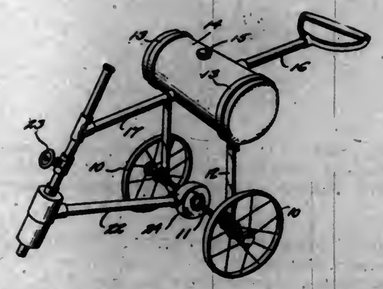
1. A supporting rack including a shelf-like portion provided with a plurality of openings having downturned flanges around them, upstanding plates at the ends of said shelf provided with inturned flanges along their rear edges and at the top edges thereof, an upstanding stiffening flange or apron arranged along the rear edge of said shelf and a downturned flange along the front edge thereof.

1,754,021. ELECTRIC SHIP-PROPULSION SYSTEM. DENNIS E. JEWITT, Old Bilton, near Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed Sept. 2, 1924, Serial No. 735,281, and in Great Britain Nov. 27, 1923. 4 Claims. (Cl. 172—8.)



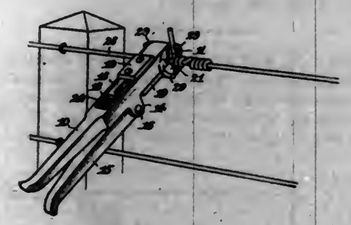
1. An electric ship propulsion system comprising a plurality of generators connected in series with a propeller motor, a plurality of prime movers respectively driving said generators, an exciting circuit for each generator arranged to be connected to a source of supply, and means arranged to be affected by the difference in the torques exerted by a generator and its corresponding prime mover for decreasing the excitation of said generator independently of the voltage of the source of supply when the torque of said generator is greater than the torque of its prime mover.

1,754,022. STUBBLE BURNER. GEORGE A. JONES, Piapot, Saskatchewan, Canada. Filed Aug. 27, 1926. Serial No. 132,011. 1 Claim. (Cl. 126—271.2.)



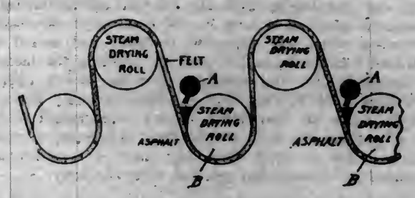
A stubble burner comprising a wheeled frame, a fuel tank supported thereon, horizontally disposed air and fuel supply pipes arranged in spaced superposed relation and projecting forwardly in advance of the machine, and a vertically arranged burner including a body supported by and communicating with said air supply pipe, and a wick receiving tube rising from the body of the burner supported by and communicating with the fuel supply pipe.

1,754,023. WIRE SPLICER. SIDNEY J. JONES, Shannon, Ill. Filed Mar. 12, 1929. Serial No. 346,414. 4 Claims. (Cl. 140—121.)



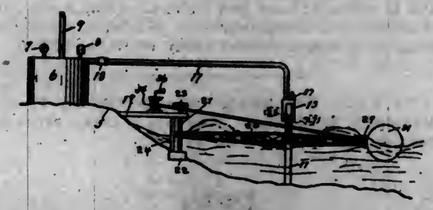
1. A device of the character described comprising a one piece jaw and handle member, a second handle member pivoted at one end to said first handle member, a separate jaw member having guided movement on said first handle member and the jaw on said jaw member thus being movable into and out of cooperative relation to said first jaw, said jaws when brought into cooperative relation being adapted to engage a line wire to enable the swinging of the device around on said wire, coacting means on said second handle member and jaw member for effecting the movement of the jaw member to move the jaw of the latter into and out of cooperative relation to said first jaw, and wire terminal engaging means on one of said jaws adapted to engage a wire terminal for the purpose of wrapping the same around said line wire when the device is swung about the latter.

1,754,024. FIBROUS-SHEET PRODUCTION. CHARLES L. KELLER, Cincinnati, Ohio, assignor to The Richardson Company, Lockland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1924. Serial No. 699,721. 13 Claims. (Cl. 91—70.)



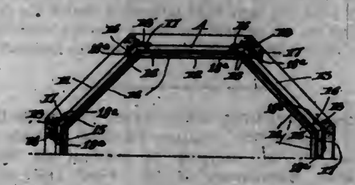
1. The process of saturating a moist web which consists in heating the moist web to partially dry the same, then treating one surface of the web with heated asphalt, then heating the surface of the web to which the heated asphalt has been applied, and then heating the opposite surface of the web.

1,754,025. WAVE-POWER APPARATUS. FRED E. LAWRENCE, Modesto, Calif. Filed June 4, 1928. Serial No. 282,789. 1 Claim. (Cl. 230—66.)



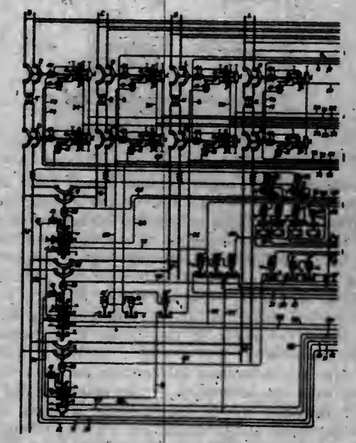
In a wave motor of the character described, a pair of vertically disposed guide members, a boom adapted to move between said guide members, cylinders positioned above said boom and supported by said guide members, pistons positioned in said cylinder, connecting rods extending between said cylinders and said boom, a float pivotally secured to one end of said boom, a nut secured to the opposite end of said boom, a vertically positioned screw rotatably positioned in said nut, means for rotating said screw for anchoring said screw against vertical movement, means for pivotally moving and holding said float in adjusted position with respect to the end of said boom, said means comprising cables secured to the ends of said float, and a drum positioned adjacent the opposite end of said boom and at a point thereabove and having said cables reaved thereabout.

1,754,026. BUILDING CONSTRUCTION. WALTER WAYNE LOY, Saskatoon, Saskatchewan, Canada, and EDWARD JOHN CRUM, Kalispell, Mont. Filed Mar. 10, 1928. Serial No. 260,773. 1 Claim. (Cl. 20—4.)



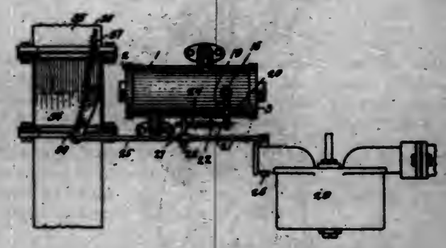
In a building construction, the combination with boards butted to form a corner joint and formed with grooves therein adjacent and extending parallel thereto of an angle metal plate bent to conform with the angle of said joint and provided with ribs, said ribs being adapted to register and engage with the grooves, and extending adjacent and parallel with overlapping protective lips on the sides of the plate, said lips being designed to overlap the grooves when the plate is mounted on said corner joint to provide a protected joint and groove structure.

1,754,027. AUTOMATIC CONTROL SYSTEM. DONALD R. MACLEOD and FREDERIC D. KING, Schenectady, N. Y., and EUGENE L. HOUGH, St. Louis, Mo., assignors to General Electric Company, a Corporation of New York. Filed Mar. 21, 1927. Serial No. 177,196. 18 Claims. (Cl. 171—118.)



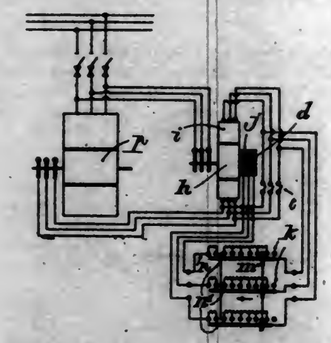
1. In combination, a plurality of sources of current, a plurality of load busses, means responsive to predetermined electrical conditions of said sources and load circuits for selectively controlling the connection of certain of said load busses to different sources in accordance with said predetermined electrical conditions, and means operative in response to a predetermined abnormal condition of a source to effect the connection of each normal source to an independent load bus irrespectively of said predeterminad electrical conditions.

1,754,028. CHOKE-CONTROL DEVICE. CARL AUGUST MARTIN and WILLIAM ORTH, Genoa, Colo. Filed May 10, 1927. Serial No. 190,286. 6 Claims. (Cl. 123—106.)



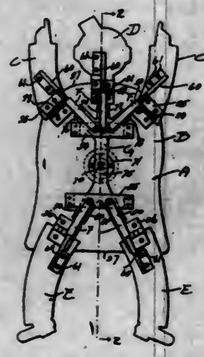
1. A choke control device comprising, in combination with the air valve of a carbureter, an exhaust gas actuated mechanism for adjusting the air valve, and a thermostat arranged to be actuated by the heat of the engine and controlling the extent of the adjustment of the air valve by said mechanism.

1,754,029. POWER-FACTOR CONTROL OF ALTERNATING-CURRENT ASYNCHRONOUS MACHINES. JEAN LOUIS MATABON and CHARLES MICHAEL FOUCAULT, Lyon, France. Filed Sept. 18, 1925, Serial No. 57,116, and in France Sept. 20, 1924. 1 Claim. (Cl. 172—280.)



In combination, an asynchronous wound rotor machine, apparatus for the compensation of the powder factor of said machine, comprising an exciter having no mechanical connection with the machine to be compensated, fixed brushes on the commutator of said exciter adapted to impress an E. M. F. on the secondary of the said machine, the exciter having a rotor with two distinct windings, one of normal type for alternating currents connected to slip rings, the other of the closed type connected to the said commutator, and a stator having a winding of normal type for polyphase alternating currents connected in series with the secondary of the said machine and to the said brushes, whose adjustments is such that the tension impressed on the secondary winding of the exciter is dephased 90° in advance of the slip tension in said winding, a starting rheostat inserted in the secondary circuit of the said machine and in the circuit of the exciter for the purpose of starting said machine as a normal asynchronous motor, compensation terminals on said rheostat connected to the said brushes for operating said machine as a compensated asynchronous motor, and a switch for starting the exciter in short circuit and putting it into normal running when open.

1,754,030. TARGET. BERNARD O. MATTSON, Memphis, Tenn. Filed Mar. 8, 1928. Serial No. 260,071. 3 Claims. (Cl. 273—102.)



1. In a figured target the combination of a figure representing a human being comprising a body with members including upwardly extended arms and head pivoted on the body and movable to a collapsed relation therewith, depending legs pivoted upon the body and movable to a collapsed relation therewith, spring means associated with the head and arms to normally move them to an extended relation from the body, a notched extension on each of the pivoted members at the rear side thereof, a flexing detent spring on the body for each of the notched extensions and engageable with the notched extensions at all times and adapted to lock in the notches of the notched extensions when the respective members are moved to a collapsed relation upon the body for holding the members in such relation, and releasing plunger means operable from forwardly of the body to simultaneously move the springs with an increasing flexing engagement thereof out of engagement with the notched extensions to release said members in order that they may be moved from a collapsed to an extended relation with the body.

1,754,031. CYCLIC KETONES OF THE AROMATIC SERIES AND PROCESS OF MAKING SAME. FRITZ MAYER, Frankfort-on-the-Main, KURT BILLIG, Hochst-on-the-Main, KARL HORST, Hofheim-on-the-Taunus, and KARL SCHIRMACHER, Hochst-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Mar. 15, 1927, Serial No. 175,630, and in Germany Mar. 16, 1926. 6 Claims. (Cl. 260—131.)

1. The process for preparing cyclic ketones of the aromatic series, which consists in subjecting an unsaturated fatty acid compound to reaction with an aromatic compound in which at least two adjacent carbon atoms contain hydrogen as a substituent in presence of aluminium chloride at a temperature of about 40° C. to 140° C.

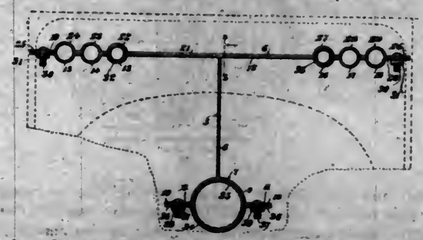
1,754,032. EYE-EXAMINING INSTRUMENT. FAY MCFADDEN, Athol, Mass. Filed May 9, 1927. Serial No. 189,793. 10 Claims. (Cl. 88—22.)



1. In a device of the character described, the combination with an instrument for testing the eyes having a lens through which the operator can observe the eye of the patient, of a light deflecting device immediately behind said lenses in a position for the light from the lenses to enter the eye of the patient, and means at a distance from the first light deflecting device for deflecting the vision of the patient before it reaches said lens in a parallel direction at a distance from the original line of sight.

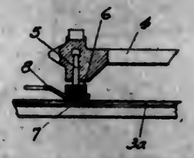
1,754,033. COMBINED RETAINING AND SPACING DEVICE FOR PIPES. GEORGE FRANCIS MCGOOKIN, Middletown, N. Y., assignor of one-half to Walter T. Hawkins, Middletown, N. Y. Filed Dec. 30, 1927. Serial No. 243,686. 2 Claims. (Cl. 248—34.)

1. A retaining and spacing device for pipes comprising a spacer member for a plurality of pipes, said member consisting of a stem and a bar disposed at right angles with respect to each other, said stem having its rear end integral with the front of the bar intermediate the ends of the latter, said bar having a forwardly directed, curved seat positioned between the center and each end thereof, said stem having its forward end formed with a rearwardly directed curved seat, a clamping member coextensive with said bar, positioned against the rear face of the latter and having means coacting with the seat on



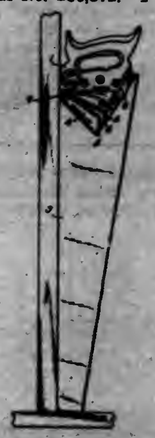
the bar for maintaining a plurality of water pipes in spaced relation, means for connecting said member to said bar, a clamping element positioned against the forward end of the stem and having means coacting with the seat on the stem for clamping a water pipe thereto and for maintaining the latter in spaced relation with respect to the other of said pipes, and means for connecting said element to said stem.

1,754,034. PROCESS OF MANIFOLDING. ALBERT W. METZNER, Dayton, Ohio, assignor to John Q. Sherman, Dayton, Ohio. Filed Sept. 28, 1927. Serial No. 222,666. 5 Claims. (Cl. 101—82.)



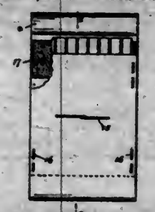
1. A process for manifolding, which consists in assembling together a pile of paper webs of which the back of an uppermost web is coated with a non-smudging color, and passing a pin through the pile, with the result of dislodging particles of the color coating and depositing them around the walls of the hole perforated in the paper next beneath said coating.

1,754,035. COMBINATION HANDSAW. WILLIAM JAMES MORREN, Hamilton, Ontario, Canada. Filed Mar. 31, 1928. Serial No. 266,372. 1 Claim. (Cl. 7—13.)



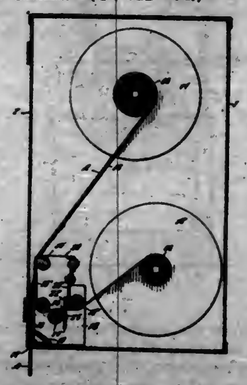
A hand-saw having a slotted handle to secure a steel saw-blade the edge of the handle projecting forwardly of the blade upon the opposed faces thereof and shaped to provide a plurality of angular curved terraces rising vertically in staggered relation to form ridges with the blade, the several angles varying from a right angle to a range of a plurality of joiners' pitches to adapt the tool to form a varied series of angular cuts.

1,754,036. MATCH PACKAGE. ROMAN A. NOVINSKY and EDWARD O. BARTON, New York, N. Y. Filed Oct. 10, 1927. Serial No. 227,201. 4 Claims. (Cl. 206—34.)



1. A match package, consisting of a case, a supply of paper matches and staples for holding the matches normally in the case, said case being formed with a top and bottom plate, each plate having a covering end flap adapted to fold over the end of the opposite plate, an igniting surface on each of said plates near the respective flaps, the surfaces on one plate extending beyond the end of the opposite plate, said matches being formed as a single sheet having two series of matches with a solid section between said series and a weakened line at the point where the respective series join said solid section, said staples extending through said solid section and both of said plates.

1,754,037. VENDING MACHINE. SIGFRED A. NYSTEDT, Storm Lake, Iowa. Filed Mar. 27, 1928. Serial No. 265,082. 8 Claims. (Cl. 312—74.)

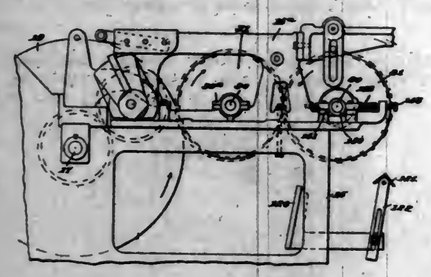


1. A vending device comprising a casing, a pair of rolls therein, for supporting a strip which carries the objects to be vended, said casing having an opening therein, a deflector for deflecting the articles from the strip through said opening, manually operated means for revolving one of the rolls to impart movement to the strip, normally disengaged from the roll, locking means for preventing movement of the strip and means for engaging the manually operated means with the roll by the movement of the locking means to releasing position.

1,754,038. FOLDING DEVICE. HERBERT W. ORNDORFF, New Orleans, La., assignor to The E. V. Benjamin Co., Inc., New Orleans, La., a Corporation of Louisiana, trading as Maginnis Cotton Mills. Filed Sept. 11, 1928. Serial No. 305,247. 7 Claims. (Cl. 270—78.)

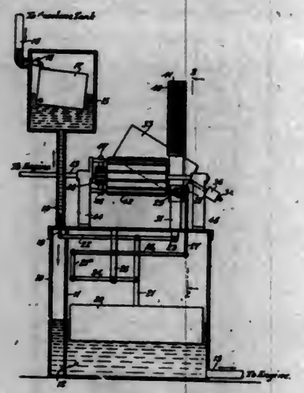
1. In a folding machine, a delivery roll, a folding roll, means to drive said rolls together, cooperative folding de-

vices on said rolls including gripping members on said folding roll to seize the blank to be folded and thereby establish the line of fold, bearings for said folding roll, means including a cam fixed to and concentric with a bear-



ing of said folding roll to operate said gripping means, and means to permit said folding roll to move toward and from said delivery roll independently of the action of said folding devices.

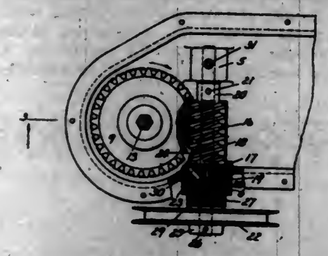
1,754,039. APPARATUS FOR MEASURING AND INDICATING EFFICIENCIES. OTTO A. PAWLICK, West Orange, and RAYMOND C. GIESS, East Orange, N. J. Filed May 22, 1928. Serial No. 279,807. 12 Claims. (Cl. 235—1.)



5. An apparatus comprising an electrical generator connected to and driven by a gasolene engine, an output circuit including a measuring instrument associated with said generator, the output of the generator being proportional to the speed of the engine, a gasolene chamber connected to the engine, a float in said chamber, a valve actuated by the float to control the flow of fuel into said chamber, movable field poles on said generator, and means connecting said float with said field poles to move them and vary the field flux to the generator as the gasolene consumption of the engine varies.

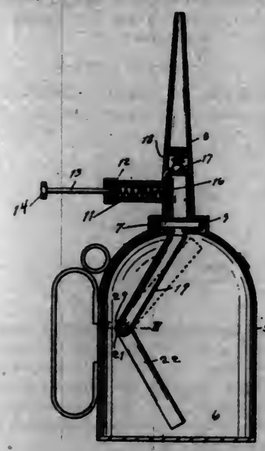
1,754,040. OIL-CIRCULATING SYSTEM. JULIAN L. PERKINS, West Springfield, and HIRAM D. CROFT, Springfield, Mass., assignors to Perkins Machine and Gear Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Sept. 20, 1928. Serial No. 307,256. 8 Claims. (Cl. 308—122.)

1. In an oil-circulating system, a container for lubricant, a bearing member supported by said container, a conduit leading from said member, a shaft with one terminal journaled in said member, the latter having therein passages opening into the shaft passage and into said con-



tainer and said conduit, a spiral driving member mounted on and secured to said shaft within said conduit, and a driven member intermeshing with said driving member.

1,754,041. OIL CAN. GEORGE PETRAK, Quincy, Wash. Filed May 19, 1928. Serial No. 279,094. 1 Claim. (Cl. 221—51.)



In an oil can, a receptacle, a spout secured to said receptacle, a pipe extending downwardly from said spout into said receptacle and angularly disposed with respect to the spout, a T member horisontally positioned on the end of said pipe, a delivery pipe hingedly mounted in the T portion of said first mentioned pipe, a valve positioned in said delivery pipe, a valve positioned in said spout, a pump secured to said spout at a point between said valves, means for limiting the rotation of said delivery pipe about its hinged connection so that said pipe will not contact said receptacle.

1,754,042. CONNECTING LINK FOR CHAINS. SIDNEY D. PORT, Saxton, Pa. Filed June 13, 1929. Serial No. 370,624. 4 Claims. (Cl. 24—232.)



1. A chain link connector comprising a body link and a lock link pivotally connected to each other at substantially their central portions, each having an elongated slot adjacent each end thereof in a position to align with the corresponding slot of the other, lateral passageways extending from the inner portions of the slots of one of said members to the outer edge thereof, and a lateral passageway extending from the inner end of one of the slots of the other member to the outer edge thereof, the periphery of the other slot of the last named member presenting a continuous wall, all of the other slots being formed by return bend portions of the links adapted to positively engage and exert a pull upon the chain links which they connect.

1,754,043. CONNECTING LINK FOR CHAINS. SIDNEY D. PORT, Saxton, Pa. Filed June 13, 1929. Serial No. 370,625. 3 Claims. (Cl. 24—232.)



1. A connector of the character described, comprising an elongated body link having a closed longitudinal slot adjacent one end thereof, and an elongated slot and a lateral passageway from the inner end of said slot at the other end thereof, and a lock link having its inner portion pivoted to the body link, one end portion only of the lock link having a longitudinal slot and a lateral passageway formed therein at the inner end of said slot, said slot of the lock link aligning with the corresponding slot of the body link.

1,754,044. SOUND-PRODUCING DEVICE. WILLIAM B. POTTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 12, 1928. Serial No. 269,519. 6 Claims. (Cl. 181—32.)



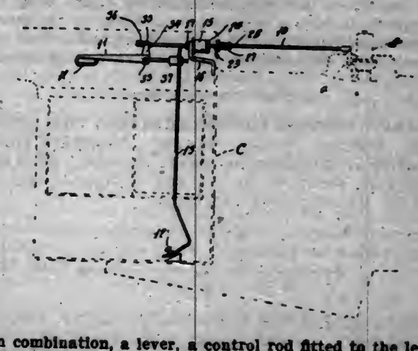
1. A conical diaphragm for sound reproducers having a flanged ring attached to its exterior surface intermediate its edge and apex.

1,754,045. TOP-LOCKING MEANS FOR CASKETS, SHIPPING CASES, AND THE LIKE. LAWRENCE A. POWELL, Fort Myers, Fla. Filed Apr. 4, 1927. Serial No. 180,885. 6 Claims. (Cl. 27—35.)



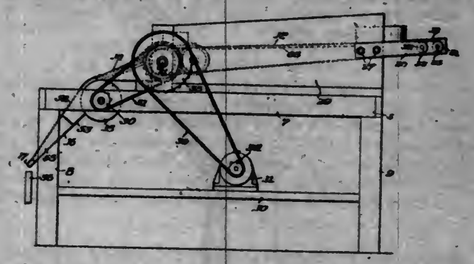
6. In an undertaking device, a body, a horisontally disposed slotted flange formed with said body, a removable top for said body and including a horizontal portion adapted to be arranged in parallelism with said flange, rods mounted for slidable movement between the flange and horizontal portion and carried by said horizontal portion, cam means carried by said rod and movable into and out of said slots, and means threadedly mounted on some of said rods for moving all of said rods and the cam means respectively whereby the latter can be secured in said slots to fasten the top to the body.

1,754,046. LOCOMOTIVE-WHISTLE-OPERATING MECHANISM. CHARLES D. RAFFERTY, Sault Ste. Marie, Ontario, Canada. Filed May 20, 1926. Serial No. 110,580. 1 Claim. (Cl. 187—189.)



In combination, a lever, a control rod fitted to the lever and extending on opposite sides thereof, means operable by hand to actuate the control rod, pneumatic means to operate the control rod pivoted to said lever, the fulcrum of said lever occurring between said pneumatic means and the pivotal connection of the control rod thereto, and means for controlling the pneumatic means located relatively close to the zone of operation of the operating means of the control rod.

1,754,047. COUNTING AND GROUPING MACHINE. JOHN SHEPPARD REAVES, Philadelphia, Pa. Filed June 4, 1923, Serial No. 643,295. Renewed Aug. 29, 1929. 21 Claims. (Cl. 276—2.)

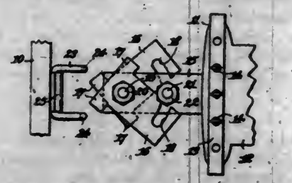


1. In a device of the character described, in combination, a plurality of adjacent oppositely moving conveyors adapted to receive a plurality of articles to be delivered to a predetermined point, outlets for receiving said articles, and means for causing one article at a time to pass through each outlet.

1,754,048. RELEASING COUPLING. FRED W. REIMOLD, Newark, N. J. Original application filed Aug. 22, 1927, Serial No. 214,644. Divided and this application filed July 2, 1928. Serial No. 289,927. 2 Claims. (Cl. 280—33.16.)

1. In a releasing coupling, the combination with a clevis plate, of members means which connects said mem-

bers with said clevis plate for pivotal movement and which subjects said members to a predetermined amount of pressure, means limiting the movement of said members to normally set positions, a relatively fixed coupler mem-



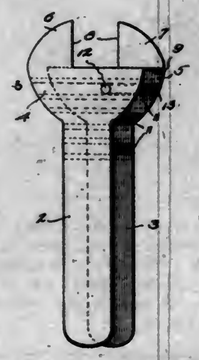
ber, and coacting means on said coupler member and the first mentioned members, said coacting means being disengageable to release said coupler member, by the pivotal movement of the first mentioned members, when all of said members are subjected to an excessive pulling force.

1,754,049. METHOD FOR DETERMINING THE ACTION OF FORCES UPON STATIC CONSTRUCTIONS. CHRISTIAN RIECKHOF, Darmstadt, Germany. Filed Mar. 26, 1924, Serial No. 702,175, and in Germany Mar. 29, 1923. 5 Claims. (Cl. 73—151.)



1. The method of investigating the operation of forces on a statically undetermined support comprising resolving said support into a plurality of statically simpler structural parts which are equivalent in their operation to the undetermined structure by forming a model of said support in reduced scale out of elastic material of equivalent shape, proportion of stiffness, fulcrum conditions and intersection point conditions and bending said model by a force of any dimension and then determining by means of this bent condition the turning points of the bent model.

1,754,050. WRENCH. NAPOLEON B. RIVERS, Ashtabula, Ohio. Filed Apr. 2, 1928. Serial No. 266,797. 1 Claim. (Cl. 81—129.)



A wrench comprising a pair of elongated sliding bodies arranged in contact with each other, jaws carried by corresponding ends of the bodies and extending longitudinally and inwardly from the same, one body being provided with transversely extending dove-tail grooves and with a slot having its inner end closed, the slot being arranged outwardly of and parallel to one of said grooves and opening through the bottom wall of such groove, dove-tail ribs extending transversely of the other body and slidably arranged in said grooves, and a pin extending through said other body into said slot and cooperating with the end wall thereof to limit the opening movement of the jaws.

1,754,051. WELDED JOINT. FRIEDRICH ROSENBERG, Spandau, Germany, assignor to General Electric Company, a Corporation of New York. Filed Oct. 8, 1928, Serial No. 311,097, and in Germany Nov. 22, 1927. 6 Claims. (Cl. 220—61.)

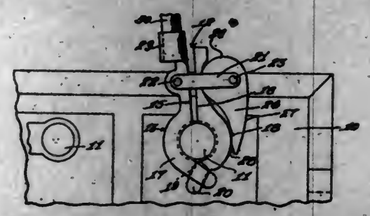


1. A joint comprising a plurality of overlapped parts, a packing therebetween, and a plurality of spot welds spaced along the joint for holding said parts together with the packing in adjusted position therebetween.

1,754,052. COMPOUND FROM INDENE AND PHENOLS. LEO ROSENTHAL, Vohwinkel, and WALTER KROPF, Elberfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed June 22, 1927, Serial No. 200,761, and in Germany June 28, 1926. 6 Claims. (Cl. 260—154.)

1. The process which comprises causing a halogen acid to act upon a mixture of an indenic compound and a phenolic compound.

1,754,053. DETACHABLE BATTERY TERMINAL. DANIEL H. SCHLABOEL, Wadena, Minn. Filed Dec. 28, 1927. Serial No. 243,168. 1 Claim. (Cl. 173—259.)



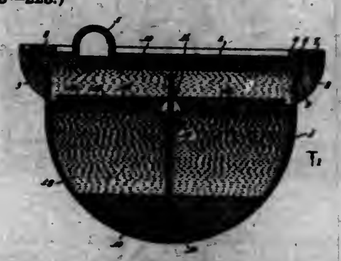
A battery terminal device comprising means for gripping a battery post, cooperating straight portions formed with the post gripping means, links pivotally secured to one of the straight portions, conductor securing means formed with the last mentioned straight portion, a cam pivotally secured to the links and being engageable in a depression formed in the other straight portion for drawing the gripping means together, and said cam having a recess formed on its inner face adjacent its free end to provide a finger grip whereby the cam can be moved to inoperative position to permit spreading of the post gripping means.

1,754,054. TOE-DANCING SHOE. JAMES SELVA, New York, N. Y. Filed June 25, 1927. Serial No. 201,879. 1 Claim. (Cl. 36—1.)



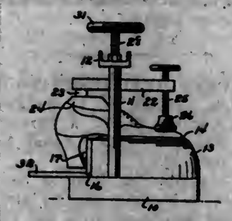
A toe dancing shoe having a relatively stiff sole structure, a relatively stiff toe section on the sole structure and projecting beyond the same which serves to support the dancer's foot, a heel section on the sole structure separate from the toe section, a tongue extending rearwardly from the vamp of the toe section, and an elastic strap whose opposite ends are connected respectively with the opposite side portions of the heel section, said tongue being connected with said elastic strap.

1,754,055. COMPASS. FRANK G. SENTER, Portland, Me. Filed Nov. 5, 1927. Serial No. 231,289. 6 Claims. (Cl. 33—228.)



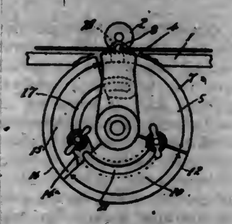
4. A compass, including a bowl, a central post in the bowl, two liquids in the bowl of different specific gravity, a compass card having a central opening to receive the post and floating on the liquid of heavier specific gravity and immersed in the liquid of lighter specific gravity, said card supported solely by the liquid of heavier specific gravity.

1,754,056. SOLE-CEMENTING MACHINE. WILLIAM H. SHUFFLEBARGER, Indianapolis, Ind. Filed Apr. 17, 1929. Serial No. 355,770. 3 Claims. (Cl. 12—36.)



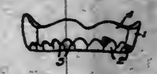
1. In a shoe sole applying machine, a base, a bag holder mounted upon the base and including side and end walls, one of said walls being removable, a pneumatic bag removably located within the holder with the upper face of said bag exposed for engagement by the sole of a shoe, and means to apply downward pressure to the top of the shoe.

1,754,057. MANIFOLDING DEVICE. JOHN Q. SHERMAN and ALBERT W. METZNER, Dayton, Ohio, assignors, by direct and mesne assignments, to The Standard Register Company. Original application filed Dec. 27, 1920, Serial No. 433,208. Divided and this application filed Jan. 12, 1925. Serial No. 1,858. 3 Claims. (Cl. 271—2.4.)



1. A rotary feed element for machines of the character described, comprising a feed shaft, and a plurality of members mounted on said shaft, one of said members being fast thereon and the other loose, and means carried by the fast member for retaining the loose member in desired positions with relation to the fast member, said members having peripheries formed on the same arc the fast member being the one furthest advanced in the direction of movement of the shaft.

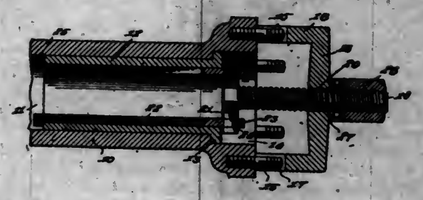
1,754,058. DENTAL PLATE AND THE METHOD OF CONSTRUCTING SAME. GEORGE A. SMITH, Springfield, Ohio. Filed Mar. 19, 1927. Serial No. 176,779. 4 Claims. (Cl. 32—4.)



1. The method of forming a dental plate consisting of preforming a blank of plastic material with an insert of plastic material of different uniform character to form the gum line, pressing said blank and its insert upon a mold equipped with teeth, and thereafter hardening the blank and insert.

4. As an article of manufacture, a preformed blank for a dental plate consisting of a main portion of plastic material of uniform character throughout and another portion placed on the forward side of the main portion also of plastic material of a uniform character throughout but differing from the characteristics of the main portion of the blank.

1,754,059. LINER PULLER FOR HYDRAULIC PUMPS. MILEY J. STASER, Puerto Mexico, Mexico. Filed Oct. 3, 1928. Serial No. 310,078. 1 Claim. (Cl. 29—88.2.)



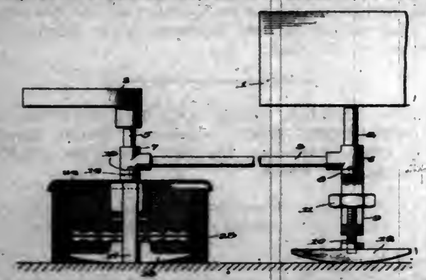
A puller for pump liners comprising a bridge plate of U-shape formation having portions removed in the extremities of the legs therefor to accommodate the projecting portions of stud bolts of cylinder heads therefor, a screw threaded shaft passed through an opening in said plate, a nut traveling upon the outermost end of the shaft and engageable with said plate, a cross bar horizontally disposed within the opposite end of said shaft, fingers adapted to be extended within the liners and having sliding adjustable connection at their outermost ends with the extremities of the cross bar, and abutments formed upon the innermost ends of said fingers being adapted to engage the inner peripheries of the liners.

1,754,060. MATCH CARD AND COVER. JACOB STEISS, New York, N. Y. Filed May 31, 1927. Serial No. 195,354. 2 Claims. (Cl. 44—44.)



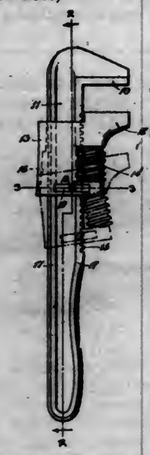
1. In match cards, a card cut into matches at its edge, said matches being twisted so as to have their original outer faces to oppose each other and to have their heads separated.

1,754,061. OIL-WELL CONTROL. WALTER C. STOLLBERG, Quincy, Ill., assignor of one-half to H. M. Sheer Company, Quincy, Ill., a Corporation of Illinois. Filed Apr. 14, 1927. Serial No. 183,807. 14 Claims. (Cl. 236—6.)



1. An oil control of the character described including a burner, a bolt connected with and for supporting the burner, a thermostat receiving the end of the bolt for supporting the burner and bolt, and a rocker upon which said thermostat is mounted.

1,754,062. WRENCH. NATHANIEL B. STONE, Washington, D. C. Filed Apr. 5, 1929. Serial No. 352,682. 3 Claims. (Cl. 81—158.)



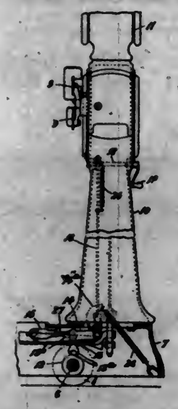
1. In a wrench having a fixed jaw on a ribbed bar member, teeth on one edge of the bar; a slide member having a jaw; a screw propeller mounted on the slide member so that its threads intermesh with the teeth on the bar member; said slide having a flared socket to permit rocking movement thereof so as to disengage the screw from the teeth on the bar member; and a spring urged stop mounted in a side wall of the slide member to coact with a rib on the bar member as and for the purpose described.

1,754,063. COATED METALLIC-ARC WELDROD AND METHOD OF MAKING THE SAME. RICHARD STRESAU, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Mar. 12, 1925. Serial No. 14,939. 18 Claims. (Cl. 219—8.)



1. A metallic-arc weldrod comprising a metal rod provided with a covering containing a cellulosic flour.

1,754,064. PLATFORM WEIGHING MACHINE OF THE PORTABLE TYPE. CAMERON MCGREGOR SYKES and ARTHUR BINNS, Birmingham, England, assignors to W. & T. Avery Limited, Birmingham, England. Filed Aug. 27, 1928, Serial No. 302,330, and in Great Britain Oct. 4, 1927. 8 Claims. (Cl. 265—72.)



1. A platform weighing machine of the portable type embodying a rotatable supporting means for the machine, a member rotatable with and in association with said supporting means, means for locking the weighing mechanism in an inoperative position, means governed by the aforesaid member for maintaining the locking means in an inoperative position, means for bringing the locking means into operation consequent upon the disturbance of the member due to a bodily movement being imparted to the machine and means for effecting an unlocking of the said mechanism when required.

1,754,065. COLORED HEAT-RESISTING GLASS. WILLIAM C. TAYLOR, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Filed June 12, 1925. Serial No. 36,737. 8 Claims. (Cl. 106—36.1.)

1. A colored heat-resisting glass of low coefficient of expansion of not more than .000005 and having high silica contents and containing lithia and boric oxide, and a usual coloring oxide which in a basic glass would produce approximately the color it produces in the heat resisting glass.

1,754,066. ELECTRICAL FITTING. FREDERICK A. TEPPT, Toledo, Ohio. Filed Mar. 1, 1926, Serial No. 91,428. Renewed Feb. 3, 1930. 3 Claims. (Cl. 247—25.)



1. An electric fitting comprising a tubular element having near a terminus thereof a peripheral groove, said groove on a common side of the element having a wall thereof away from said terminus providing a flaring portion and the opposite wall of increased overhang as an arm, and a screw through said arm coacting upon rocking assembly of the fitting through a circular opening in a wall to have the wall about the opening embraced by said groove throughout the groove extent with major clearance of the groove at the flaring portion and arm, said screw there operable toward the flaring portion to engage the opening rim and thereby holding the fitting in groove locking alignment with the opening axis.

1,754,067. ILLUMINATED NAME AND NUMBER PLATE. ELWIN A. THOMAS and FOREST A. THOMAS, Willits, Calif. Filed Mar. 18, 1926, Serial No. 95,808. Renewed Nov. 14, 1929. 3 Claims. (Cl. 40—132.)

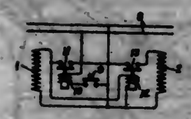


3. A structure of the character set forth, comprising a casing having its front wall provided with a slot and an opening below the slot, panels extending across the slot, and bearing indicia adapted to be illuminated from within the casing, an electric lamp socket arranged within the casing and secured to said wall with its lamp receiving end arranged adjacent said opening, and a closure plate removably secured to said wall over said opening.

1,754,068. PROCESS OF WATER PURIFICATION. JOHN T. TRAVERS, Columbus, CHARLES H. LEWIS, Harpster, and OLIVER M. URBAIN, Columbus, Ohio, assignors, by direct and mesne assignments, to The Ohio Sanitary Engineering Corporation, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 27, 1928. Serial No. 302,442. 10 Claims. (Cl. 210—9.)

1. A process for eliminating phenols from water, comprising incorporating in the phenol solution a mixture containing hydroxide of iron, calcium hydroxide and a catalyst bearing material, and incorporating the mixture in the solution in such proportions that the hydroxide of iron will be present in the solution in a quantity not less than 4.4 grains per gallon, the calcium hydroxide being present in the solution in a quantity not less than 14.8 grains per gallon, and the catalyst bearing material being present in the solution in the quantity of not less than 80 grains per gallon.

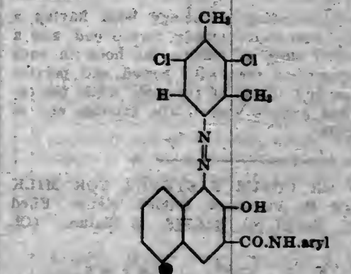
1,754,069. SOLENOID-OPERATED MECHANISM. HENRY TRENCHAM, Ruislip, HERBERT C. HEATH, Wembley, WILLIAM P. HAMLYN, Acton, London, and HAROLD E. COX, Beckenham, England, assignors to General Electric Company, a Corporation of New York. Filed Sept. 8, 1925, Serial No. 55,187, and in Great Britain Sept. 11, 1924. 3 Claims. (Cl. 175—335.)



1. Solenoid operated mechanism comprising a floating lever, an actuated rod pivoted to the lever, a pair of solenoids having plungers pivoted to the lever respectively at spaced points thereon and arranged when energized to move the actuated rod in the same direction, a relay connected to control one of said solenoids, and a relay connected to be controlled by said first relay and to control the other of said solenoids.

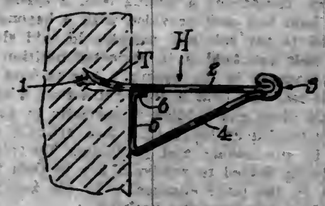
1,754,070. AZO DYESTUFF. HERMANN WAGNER, Bad Soden-on-the-Taunus, ERWIN HOFFA, ERNST RUNNE, ERWIN THOMA, and HANS HEYNA, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 5, 1927, Serial No. 203,672, and in Germany July 9, 1926. 4 Claims. (Cl. 260—95.)

1. As new products azo dyestuffs having the general formula:



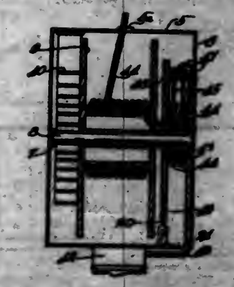
which dyestuffs may be produced on the fiber and yield very fast red tints.

1,754,071. HOOK. CHARLES L. WAID, Palmer, Mass. Filed June 5, 1928. Serial No. 283,070. 1 Claim. (Cl. 248—22.)



A hook formed from strip metal comprising in combination, a driving head, upper shank and lower brace portions extending therefrom in a diverging relation, the end portions of the brace being bent towards said shank intermediate the ends thereof and having its extremity secured thereto, the said head consisting of at least four superposed contiguous portions of the strip provided by bending contiguous portions of the strip forwardly over said shank.

1,754,072. EXTENSIBLE ELECTRIC CONDUCTOR. JOHN T. WATTS, Chicago, Ill. Filed Sept. 22, 1926. Serial No. 137,026. 3 Claims. (Cl. 200—153.)



1. A cord take up and switch device comprising a frame, a current supply cord, a spring-drum journaled in the frame to take-up the current supply cord, and a switch incidental to the operation of the drum rotating at all times with the drum alternately turning on and off the current as the drum rotates.

1,754,073. SPOON HOOK. JOHN C. YATES, Baltimore, Md. Filed Sept. 23, 1927. Serial No. 221,487. 4 Claims. (Cl. 43—45.)



1. A spoon-hook including a springy hook having a bowed end portion and an oppositely turned end, and a spoon having alined slots to receive the hook in such spring-locked engagement that said bowed end portion presses against an end of one of the slots while the oppositely turned end presses against the extreme end of another of the slots.

1,754,074. LID OR COVER FASTENER FOR MILK CANS. ELIJAH B. ATKINSON, Oakley, Kans. Filed Jan. 24, 1929. Serial No. 334,776. 3 Claims. (Cl. 70—74.)

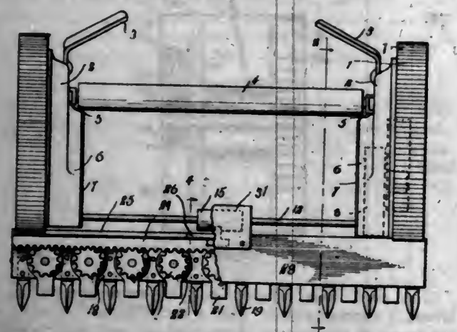


1. A lock, comprising a sliding bolt, a casing slidably mounting said bolt and provided with a bayonet slot, a lug secured to the bolt and movable in said slot to retract the bolt and hold it in retracted position, a plate rotatably mounted in the casing, a lug on said plate to engage the bolt and hold it from retraction, a spring engaging said plate and holding it normally in position to prevent retraction of the bolt, a lock cylinder rotatably mounted in the casing and journaling the plate, said cylinder being slotted to receive a key to turn it, and a projection on the plate engageable by the key to rotate the plate into bolt releasing position.

1,754,075. ELECTROPLATING BATH. JOSEPH BEDO, Cleveland, Ohio, assignor to Permachrome Process Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed July 5, 1928. Serial No. 290,689. 2 Claims. (Cl. 204—1.)

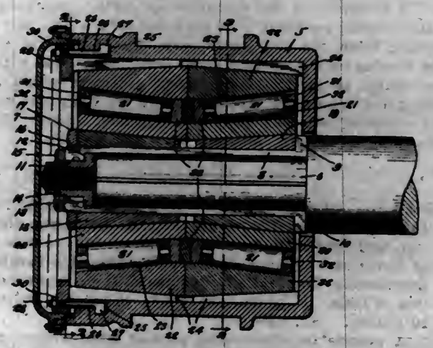
2. An electro-plating bath prepared by mixing sodium thiosulphate and chromic acid.

1,754,076. LAWN MOWER. CHARLES A. BLACKBURN, Washougal, Wash., assignor to Keystone Manufacturing Co., Inc., Chehalis, Wash. Filed Jan. 5, 1928. Serial No. 244,748. 1 Claim. (Cl. 56—262.)



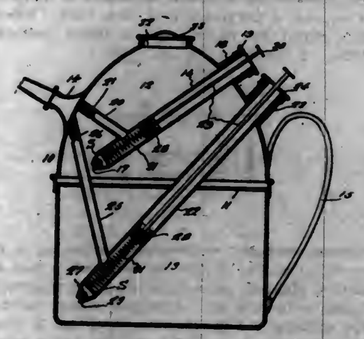
A lawn mower comprising a housing consisting of a transversely disposed base plate provided with an upstanding flange along its back edge, a cover plate secured to said flange and projecting forwardly over the base plate and provided with a depending flange along its front edge, a plurality of guard fingers secured to and projecting forwardly from the base plate, a plurality of oscillatory knives mounted upon the base plate under the cover and having their cutting ends projecting forwardly between the base plate and the cover and arranged alternately with the guard fingers, pinions fixed on the respective knives concentric with the pivots thereof, a rack bar disposed between the base plate and the cover and meshing with the pinions and guided by and between the pinions and the flange at the back edge of the base plate, a cam disposed at the rear of the housing and immediately adjacent the same, means for rotating the cam, and a finger secured rigidly to the rack bar and projecting rearwardly therefrom into engagement with the cam, the back of the cover and the back flange of the base plate being recessed centrally to accommodate the finger.

1,754,077. ROLLER BEARING. GEORGE FRED BLUME, Philadelphia, Pa. Filed Jan. 7, 1929. Serial No. 330,918. 6 Claims. (Cl. 308—207.)



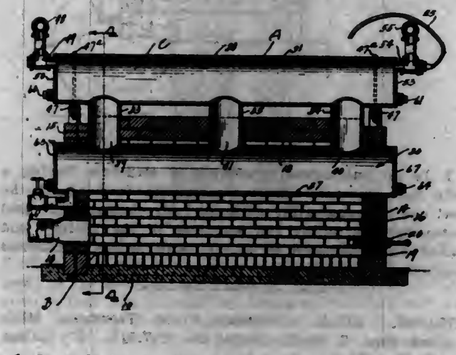
1. In a device of the character described, a housing, an axle extending into the housing, a sleeve supported on the axle, tapered bearing sleeves mounted on the first mentioned sleeve, inner roller races on the tapered bearing sleeves, outer roller races having tapered inner surfaces, roller bearings mounted between the roller races, means for securing the outer roller races in position, and spacing rings arranged between the adjacent ends of the roller bearings.

1,754,078. OIL CAN. FRANK BORZI, Washington, D. C., assignor to Charles R. Summa, Waterbury, Conn. Filed Jan. 23, 1928. Serial No. 248,821. 8 Claims. (Cl. 221—51.)



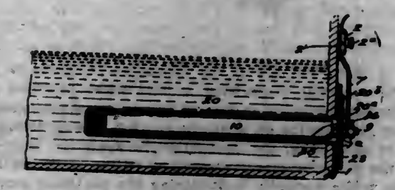
1. In a liquid dispensing device, a container, a discharge spout for the container, a horisontal partition dividing the container into an upper chamber and a lower chamber, normally closed filling openings for the chambers, a cylinder extending into the upper chamber and having an inlet opening, a second cylinder extending into the lower chamber and also having an inlet opening, a discharge tube extending from each cylinder to the discharge spout, check valves for the inlet openings of the cylinders, spring influenced plungers within the cylinders, rods extending from the plungers to operate the latter, and check valves within the tubes.

1,754,079. APPARATUS FOR BREAKING UP PETROLEUM EMULSIONS. JOHN D. BRADY, El Dorado, Ark., assignor to Brady Process Company, El Dorado, Ark., a Corporation of Delaware. Filed Dec. 18, 1925. Serial No. 76,339. 4 Claims. (Cl. 196—5.)



1. In a device for breaking up hydrocarbon emulsions the combination of upper and lower tanks, means to intercommunicate the tanks, means for heating the lower tank to a greater degree than the upper tank, means for feeding emulsified hydrocarbon into the upper tank, a single oil outlet in the upper tank for withdrawing oil in the liquid state, means for supplying fuel to the means for heating the lower tank, and means regulated by the temperature of the heated oil in the upper tank for automatically regulating the supply of fuel to said means for heating the lower tank.

1,754,080. CRANK-CASE HEATER FOR MOTOR VEHICLES AND THE LIKE. ADELBERT L. BRIGGS and HENRY SAUERS, Escanaba, Mich. Filed Apr. 5, 1929. Serial No. 352,860. 5 Claims. (Cl. 219—38.)



1. In the combination of a crank-case and heater, a casing insertible through a slot in the crank-case, the casing having an open end, a marginal laterally extending flange at the open end of said casing and adapted to abut the wall of the crank-case against the slot therein for limiting insertion of the casing into the crank-case, means for sealingly connecting the casing to said crank-case through the medium of said marginal flange, a heating unit insertible into said casing through the open end thereof, a closure for the open end of said casing, and means for supplying electric current to said heating unit.

1,754,081. COLLAPSIBLE BOX OR CASE FOR HOLDING ELECTRIC AND OTHER BULBS. JAMES BROWNLIE, Dennistoun, Glasgow, and ARCHIBALD HORSLEY, Thornliebank, Glasgow, Scotland. Filed May 7, 1928, Serial No. 275,815, and in Great Britain Dec. 10, 1927. 2 Claims. (Cl. 229—37.)



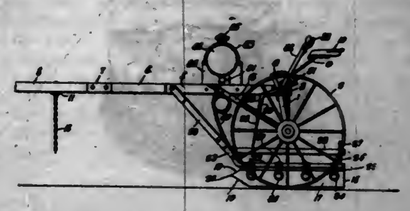
1. A collapsible box formed from a single blank and comprising four outer or covering wall members A, B, C, D initially arranged in a series side by side, an end member G united to one of said first named members, inner wall members L, M on opposite sides and united to said end member and closure flaps H, I at the outer ends of said inner wall members.

1,754,082. MAST ARM. PHILIP H. CHASE, Bala, Pa. Filed Aug. 14, 1925. Serial No. 50,247. 2 Claims. (Cl. 248—30.)



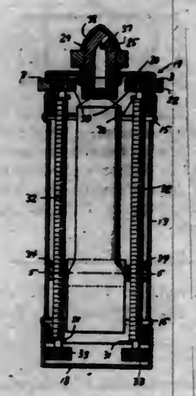
1. A bracket for holding the flattened braces of a mast arm comprising two walls and a pocket therebetween, lugs outside of said walls laterally drilled, pairs of lugs on said walls rearwardly of the first-named lugs arranged in staggered relationship thereto, a bolt passing through the drilled lugs whereby the flattened ends of outside braces are held to the lugs and the flattened end of another in said pocket, the non-flat portions of said first named braces resting between the members of the said pairs of lugs.

1,754,083. INSECT EXTERMINATOR. EUSTACE R. COLLINS, ALLEN B. EBERHART, and WILLIAM A. GILLENTINE, Fort Worth, Tex. Filed May 10, 1929. Serial No. 362,050. 1 Claim. (Cl. 43—144.)



An insect exterminator comprising a wheeled frame, a driver's seat supported thereby, a tongue for said frame, means carried by said tongue for removing insects from plants, burner casings carried by said frame and adjustably mounted with respect thereto, means for adjusting the casings from the driver's seat, said casings including inwardly directed downwardly inclined top walls, outwardly inclined outer walls provided with openings arranged in parallelism and with respect to each other, burners carried by said casings and including burner coils disposed therein adjacent the openings thereof, burner nozzles included in said burners and disposed exteriorly of the casings to direct flames thru the openings and coils, and means for supplying fuel to the burners and carried by said frame.

1,754,084. DISPENSING DEVICE. RICHARD L. CORNELIUS, Paso Robles, Calif. Filed Dec. 31, 1928. Serial No. 329,459. 7 Claims. (Cl. 221—6.)



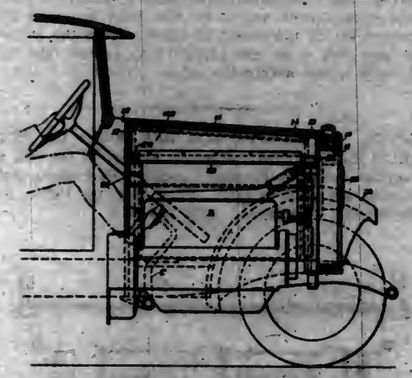
1. In a dispensing device of the class described, a casing adapted to encase a collapsible container of the class described, said casing being open at its opposite ends, removable and interchangeable closures for said ends, means in said casing for compressing the container to eject its contents, and operating means for said first named means including an actuating element carried by one of said closures.

1,754,085. ELECTRIC MEASURING INSTRUMENT. HAROLD T. FAUS, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 27, 1928. Serial No. 308,729. 2 Claims. (Cl. 171—95.)



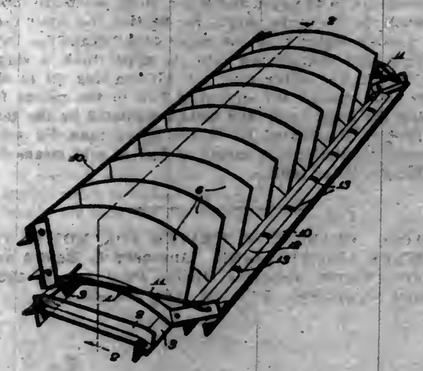
1. In an electric measuring instrument, a stationary field magnet provided with an air gap, a movable armature member in said air gap, and means for producing a zero restoring torque for said armature member, comprising a magnetic vane movable with the armature member but mounted outside of the influence of its field together with auxiliary pole pieces for diverting flux from said field magnet through said vane along an axis corresponding to the zero position of the vane, said auxiliary pole pieces being angularly adjustable with respect to the axis of rotation of said armature member to vary the zero setting thereof.

1,754,086. HOOD LEDGE PLATE AND MULTIPLE-COMPARTMENT HOOD FOR AUTOMOBILES. KARL FRILCKE, Toledo, Ohio. Filed July 12, 1928. Serial No. 292,074. 9 Claims. (Cl. 180—54.)



1. In an automobile, a comparted structure having a body compartment, and compartments forward of the cowl and communicating with the body compartment, and means for controlling the operation of the vehicle, said means being disposed in one of said second mentioned compartments.

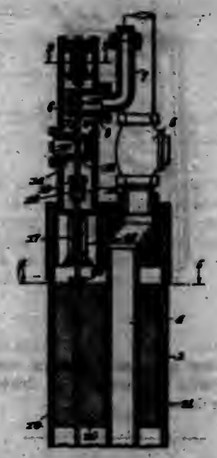
1,754,087. MOLD. STEPHEN FLAM, Tecumseh, Mich. Filed Sept. 7, 1927. Serial No. 217,913. 11 Claims. (Cl. 25—121.)



4. A mold for use in the formation of products from plastic material comprising a base plate provided with longitudinally spaced series of transverse slots, partition plates each having at least one ear for loosely fitting into one of said slots, the connection between the base plate and the partition plates permitting tilting of the partition plates while normally maintaining the partition plates in vertical position, means for holding said ears loosely positioned in said slots, and means for maintaining said partition plates in operative position during the molding operation.

1,754,088. PUMP FOR OIL WELLS. CHARLES E. FOLLIS, Allen, Okla. Filed Dec. 10, 1928. Serial No. 325,019. 1 Claim. (Cl. 103—248.)

A pump of the class described comprising a barrel, a lower extension thereon, a discharge pipe extending into the lower part of the barrel, a tubular member in communication with the top of the barrel, said tubular member having a discharge port and an inlet port therein, a supply of compressed fluid connected with the inlet port, a valve stem in the tubular member, valves thereon for controlling the ports, the inlet valve closing its port while the discharge valve is in open position and vice versa,



spring means for giving the valve stem a snap action, a float rod actuated by the float at the extremities of movement of the float, spring means for giving the float rod a snap action and a coupling between the float rod and valve stem for preventing movement of the stem by the float rod until the rod has been moved by its spring means.

1,754,089. TENTERING MACHINE. THOMAS W. FRANCE, Providence, R. I., assignor to H. W. Butterworth & Sons Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1929. Serial No. 339,988. 8 Claims. (Cl. 26—57.)



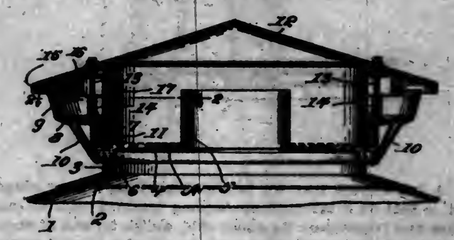
1. In a tentering machine, a frame for supporting a lower set of web tentering mechanism, a frame for supporting an upper set of web tentering mechanism above the lower set, means on the lower frame for supporting the frame for the upper set, means for independently adjusting each set, and means for driving both sets.

1,754,090. POWDER PUFF. LEONARD FRIEDBERG, Brooklyn, N. Y. Filed Oct. 2, 1928. Serial No. 309,818. 4 Claims. (Cl. 132—73.5.)



4. As a new article of manufacture, a powder puff including a face contacting portion, a back formed by a plurality of members, the adjoining edges of which are inwardly disposed and joined by stitchings, and a handle secured between said members of said back by the stitchings which join said members, the ends of said handle extending between said members inwardly parallel to the inwardly turned adjoining edges thereof, said stitchings being disposed on the inwardly extending portions of said members and said handle.

1,754,091. TANK-SEALING DEVICE. EMERY G. FRIEDMAN, Tampico, Mexico. Filed Jan. 4, 1929. Serial No. 330,215. 8 Claims. (Cl. 220—45.)



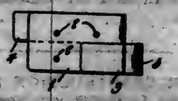
1. In combination with a container having a "breather" passage in its upper part, a gutter in the lower wall of the passage, one wall of the gutter being higher than the other, a flange connected with the top wall of the passage and extending into the gutter, said gutter containing a sealing fluid whereby the sealing fluid offers more resistance to the passage of the gases or air in one direction than it does to the passage of air or gas in the opposite direction, a second gutter connected with the high wall of the first gutter and tubes connecting the second gutter with the first gutter.

1,754,092. THREAD CUTTER. WILLIAM G. FUNK, Covington, Ky., assignor of one-fourth to Stanley G. Clark, Cincinnati, Ohio, and one-fourth to Frank M. Andrews, Fort Thomas, Ky. Filed Nov. 10, 1925. Serial No. 68,204. 8 Claims. (Cl. 10—111.)



3. In thread cutters, a cutter bar having a series of cutting teeth arranged transversely on the end thereof with intervening metal clearance grooved therebetween and the shank or body of each tooth formed in the shape of a truncated bevel and increasingly reduced in transverse area from its cutting point to its other end, the cutting end of each tooth being beveled to a point and undercut to form a thread cutting edge and to provide a shaving clearance recess through which the removed metal is discharged therethrough and through the clearance grooves.

1,754,093. MARKER FOR BANK PASS AND OTHER BOOKS AND HOLDER FOR CHECKS OF CHECK FOLDS. PEARSE A. GETZ, Portland, Oreg. Filed Feb. 16, 1928. Serial No. 254,770. 1 Claim. (Cl. 24—66.)



A book marker made of a single blank of sheet material, the blank being split from one end longitudinally to provide fingers, said fingers being folded against opposite sides of the remainder of the blank, one of said fingers at its free end extending beyond the free end of the

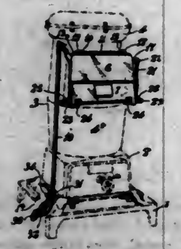
blank, the other finger terminating at its free end short of said free end of the blank, and the latter finger at the fold extending beyond the fold of the other finger.

1,754,094. SELF-SERVING TRAY. GEORGE GLASS, Sr., Erie, Pa. Filed Aug. 4, 1925. Serial No. 48,103. 1 Claim. (Cl. 45—26.)



A self-serving tray for tables, comprising a base adapted to seat on a table, an upstanding spherical boss in said base and recessed on its under side, a disk formed of sheet metal and having an offset portion centrally thereof seated on said boss, said disk provided with a plurality of openings, anti-friction bearing members in said openings and bearing on the base, the sheet metal forming the disk being bent to form a flange around each of said openings to enclose the anti-friction bearings, a platform supported on said offset portion and said bearing members, and a securing member engaging through alined openings in the platform, the offset portion and the boss and permitting rotation of the platform and disk relatively to the base.

1,754,095. DOOR-OPERATING DEVICE FOR STOVES AND FURNACES. CHARLES L. GOHMANN, New Albany, Ind. Filed May 23, 1928. Serial No. 280,054. 11 Claims. (Cl. 110—178.)



1. In combination, a pair of stove doors comprising an upper and lower door, a link pivotally connecting said doors with each other, a rod pivotally connected to the upper of said doors, a foot pedal attached to the lower end of said rod for opening said doors, a weighted plate slidably mounted relative to the lower of said doors and adapted to exert inward pressure upon said lower door when the latter is in closed position and for exerting downward pressure on said lower door, which in turn exerts upward pressure upon the upper door through said link when said doors are in the closed position, and a foot pedal combined with said first-mentioned foot pedal for closing said doors.

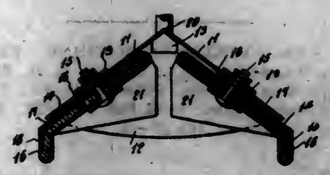
1,754,096. DOOR CONSTRUCTION FOR STOVE CASINGS. CHARLES L. GOHMANN, New Albany, Ind., assignor to Gohmann Bros. and Kahler Company, New Albany, Ind., a Corporation of Indiana. Filed Feb. 4, 1929. Serial No. 337,286. 3 Claims. (Cl. 126—190.)

1. In a stove casing having a door opening therein, a pair of doors adapted to close said opening, a pair of rods mounted adjacent said casing upon which said doors are slidably mounted, a pulley adjacent the top of each rod, a pair of chains each connected to said doors, respec-



tively, and passing over said pulleys, respectively, and means whereby said doors may be drawn to open or closed position as desired.

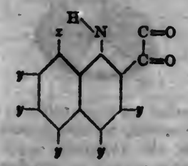
1,754,097. BOLL-WEEVIL AND VEGETATION EXTINGUISHER. WILLIAM R. GREENHAW, Healdton, Okla. Filed Feb. 7, 1929. Serial No. 338,215. 5 Claims. (Cl. 126—271.2.)



1. A device of the class described comprising a hood, a torch to produce a flame interiorly of the hood, an air entrance opening in the hood, and supporting means for the hood adjustable on the hood and having flanges movable by adjustment of said means to vary the extent of said opening.

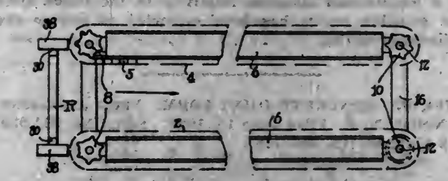
1,754,098. PROCESS OF MAKING NAPHTHISATIN COMPOUNDS. JOSEF HALLER, Wiesdorf-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 29, 1926, Serial No. 151,608, and in Germany Dec. 3, 1925. 5 Claims. (Cl. 260—47.)

3. As new products the compounds of the general formula—



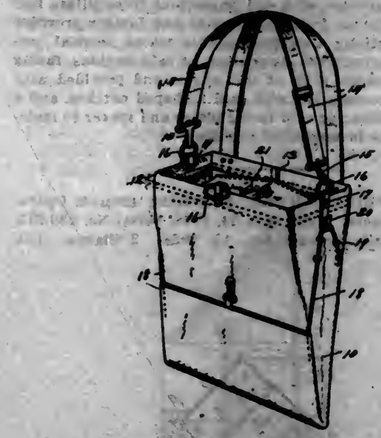
wherein x represents a halogen atom and y represents hydrogen or a monovalent substituent.

1,754,099. TENTERING MACHINE. JOHN H. HAMILTON, Holyoke, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a Corporation of Massachusetts. Filed May 6, 1929. Serial No. 360,736. 7 Claims. (Cl. 26—52.)



1. A tentering machine comprising in combination, a pair of endless chains for gripping opposite edges of a web, separate driving mechanisms for each chain, mechanism for controlling the relative speed thereof and a detector engageable by a web as it is fed to said chains for actuating said control mechanism.

1,754,100. FRUIT-PICKER'S BAG. HENRY HAMMOCK and GRANT RIDDLE, Boise, Idaho. Filed Jan. 12, 1928. Serial No. 246,224. 4 Claims. (Cl. 150—2.)



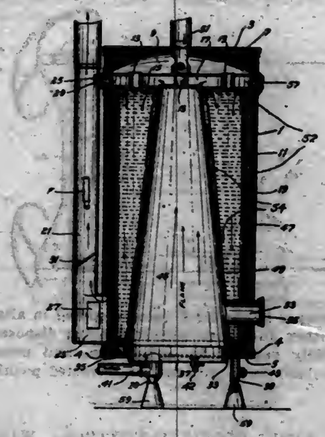
1. A fruit picking bag having a baffle of textile fabric secured in the mouth of the bag below the top thereof, the baffle inclining downward from its middle toward its ends and said ends being spaced from the body of the bag to permit the passage of fruit over the ends of the baffle.

1,754,101. INSULATOR AND MOLD FOR CASTING THE SAME. HENRI LOUIS JOSEPH HAQUIN, Voyenne, France. Filed Mar. 15, 1928, Serial No. 261,793, and in Belgium Oct. 10, 1927. 4 Claims. (Cl. 49—65.)



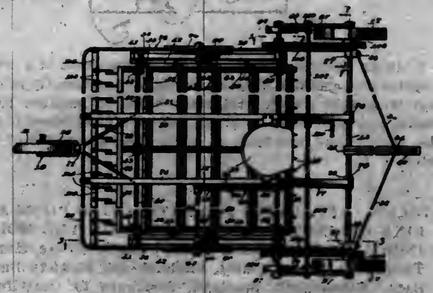
1. A mold assembly comprising in combination a pair of mold members adapted to be moved towards and away from one another, said mold members having a molding cavity formed therein whose surface includes a bridge-like portion extending between two parts thereof, and a pair of bent core members pivotally mounted on a common axis, said core members when inserted in operative position in the mold cavity passing under said bridge-like portion of the latter and contacting thereunder.

1,754,102. BOILER. SAMUEL B. HARDING, Oshkosh, Wis. Filed Mar. 9, 1927, Serial No. 174,045. Renewed Sept. 11, 1929. 8 Claims. (Cl. 122—159.)



1. A boiler comprising a shell containing water, an inner flue passing from end to end through said shell, a spaced skirt in annular relationship with respect to the water side of the outer wall of said shell and a spaced inner skirt in annular relationship with respect to the water side of the inner wall thereof, said skirts extending substantially the greater parts of the wall lengths, said inner wall forming the wall of said inner flue, the space between skirts being open and free, and a heating flue spacedly surrounding the outer wall of the shell.

1,754,103. HARROW. JOHN M. HJERMSTAD, Red Wing, Minn. Filed Apr. 30, 1928. Serial No. 274,146. 7 Claims. (Cl. 97—46.)

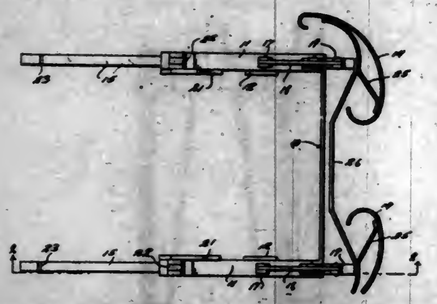


1. A cultivator comprising a frame, an axle carried by the frame, traction wheels mounted on the axle, a plurality of pairs of spaced sprockets, chains trained over pairs of the sprockets, spaced angle bars located in a horizontal plane and carrying the sprockets, bars provided with teeth and secured to the chains and transversely of the frame, means located centrally of the frame for bodily elevating the angle bars and for swingably supporting said bars, chains and sprockets, means operatively connecting the sprockets with the traction wheels for causing a braking action on the chains.

1,754,104. EXTENSIBLE BUMPER FOR AUTOMOBILES. JOHN C. HOFFMAN, Sioux City, Iowa. Filed Aug. 3, 1929. Serial No. 383,199. 4 Claims. (Cl. 293—55.)

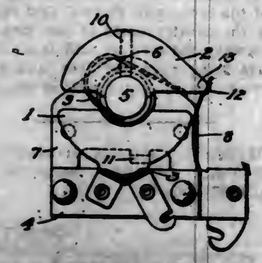
1. An extensible bumper for motor cars comprising a tubular element, a bumper, a shank having sliding en-

gagement through the tubular element, arms, one pivoted to the shank of the bumper and the other pivoted to the tubular element, the arms being pivoted to each other, and



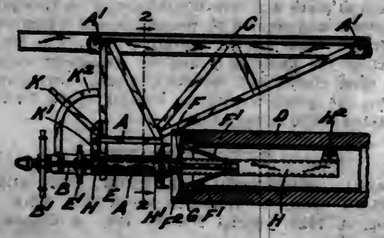
when the bumper is projected being disposed in alignment with each other and when retracted being disposed in a position nearly parallel to each other, and means for locking the shank in a projected or retracted position.

1,754,105. RADIO RECEIVER CONTROL. WALTER E. HOLLAND and DAVID P. EARNSHAW, Philadelphia, Pa., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 11, 1929. Serial No. 354,234. 5 Claims. (Cl. 175—41.5.)



1. In an electrical condenser, the combination of a rotor, a stator and a switch blade normally held resiliently in contact with said stator, said blade being in position to be engaged by said rotor to break the contact between it and the stator, and establish a contact between it and the rotor.

1,754,106. APPARATUS FOR EXTRACTING PIPES AND LIKE CYLINDRICAL ARTICLES FROM THE MOLDS IN WHICH THEY ARE CAST. JAMES EDGAR HURST, Thorncliffe, near Sheffield, England, and EDMUND BRUCE BALL, Kilmarnock, Scotland, assignors to Centrifugal Castings Limited, Kilmarnock, Scotland, a Registered Company of Great Britain. Filed Dec. 3, 1928, Serial No. 323,465, and in Great Britain Jan. 17, 1928. 6 Claims. (Cl. 22—94.)



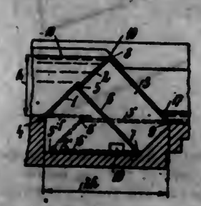
1. In apparatus for extracting cylindrical articles from the molds in which they are cast, the combination of a frame mounted to travel in a longitudinal direction relatively to the mold, a supporting member on the frame, an expansible gripping device on said member, means for expanding and contracting the gripping device and means for moving the supporting member and gripping device in a longitudinal direction relatively to the frame after the gripping device has been expanded to engage the cylindrical casting.

1,754,107. CONCRETE JOINT FORM. PETER JANNARONE, Nutley, N. J. Filed June 18, 1929. Serial No. 371,039. 2 Claims. (Cl. 25—118.)



1. In an expansion joint form of the class described, a laminated structure comprising a central spacer composed of sections provided with end projections to facilitate lifting of the sections from the concrete and further provided with substantially L-shaped notches whose vertical portions open through the lower edges of said sections, facing plates on opposite sides of said spacer and provided with notches for cooperation with said L-shaped notches, and a crown cap embracing said facing plates and spacer to maintain the parts in assembled relation.

1,754,108. WEIR SHUTTER. FRANTIŠEK JERMÁŘ, Opava, Czechoslovakia. Filed May 24, 1928, Serial No. 280,273, and in Czechoslovakia Jan. 18, 1928. 2 Claims. (Cl. 61—27.)

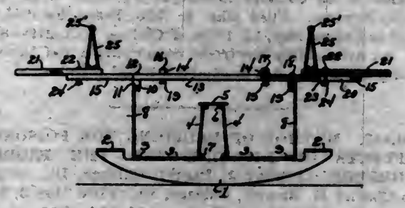


1. A hydrostatic weir shutter of the character described comprising a substructure formed with a well, a normally roof-shaped, collapsible shutter structure supported on the substructure above the well, the low water side and the upper portion of the high water side of the shutter structure being formed of two hingedly connected leaves, pivoted struts supporting the free end of the outer leaf so as to allow the two leaves to collapse into the well, the lower portion of the high water side of the shutter structure being formed of a leaf which is pivoted to the substructure and supported at its free end on the leaf forming the upper portion so as to slide thereon when the shutter is adjusted and so as to cover the same when the shutter is in collapsed position.

1,754,109. ROCKING TOY. HERMAN KITZE, Owen, Wis. Filed June 3, 1929. Serial No. 368,057. 3 Claims. (Cl. 272—56.)

1. A child's rocker designed for use by one, two or three children, comprising a pair of spaced rocker members,

boards connected to the upper ends of the rockers, other boards connected to the upper edges of the rocker but arranged inwardly of the end boards, a seat centrally supported by and arranged above the last mentioned boards, metal uprights secured to the rockers inward of the end boards and outward of the last mentioned boards, transverse wooden plates connecting the uprights, side rails overlying and secured to the ends of the uprights, trans-



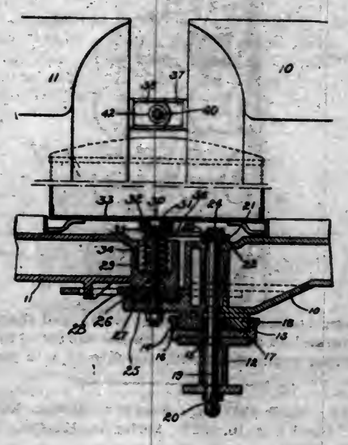
verse plates connecting the side rails, plates underlying the inner transverse plates and overlying the outer transverse plates, arranged at the center thereof and removably secured thereto and said plates extending beyond the ends of the rocker and provided, adjacent to their outer ends with elongated slots and a seat arranged over each of the last mentioned plates having a nut engaged bolt passing therethrough and passing through the slots in the said plates.

1,754,110. GREASE ABSORBER. GUSTAV KLEIN, Philadelphia, Pa. Filed Mar. 6, 1929. Serial No. 344,826. 1 Claim. (Cl. 126—299.)



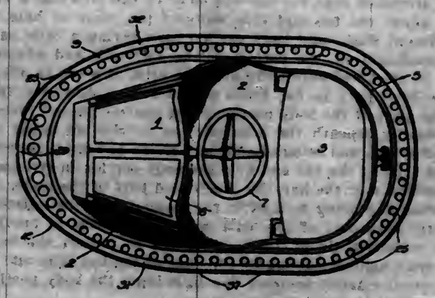
In a grease absorber for gas ranges, the combination with a pipe section to fit the outlet pipe leading from the oven of the range, of a cowl mounted upon and carried by the upper end of the pipe section, said cowl comprising a body tapered toward its upper end in a relatively small angular shape from the front to the back of the cowl, and being of a width substantially equal to and spaced above the upper end of the pipe section, said structural area of said upper end of the cowl constituting a pocket for the reception of metallic wool spaced a substantial distance above and directly over the upper end of the pipe section, the back of the cowl being straight and substantially in the same direction as the back wall of the pipe section, said upper end of the cowl having an apex positioned substantially toward the perpendicular center of the pipe section, the front wall of the cowl being disposed on a relatively steep incline from the apex forwardly and downwardly and overlying the pipe section a substantial distance, whereby the grease may be absorbed by the entangled portions and loose ends of the metallic wool, while the products of combustion free of the grease are deflected downwardly and forwardly, and means extending side ways across the cowl for supporting said metallic wool.

1,754,111. ARTICULATED CAR. ELMER LATSHAW, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 12, 1929. Serial No. 392,176. 15 Claims. (Cl. 105—4.)



13. The combination of two cars, a truck supporting the end of one car, an extension on said car end beyond the truck support forming a bearing, and an adjoining car body pivotally mounted on the extension.

1,754,112. AMUSEMENT-CAR CONSTRUCTION. ROBERT JAKOB LUSSE, Philadelphia, Pa., assignor to Lusse Brothers, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 25, 1928. Serial No. 308,264. 14 Claims. (Cl. 293—55.)

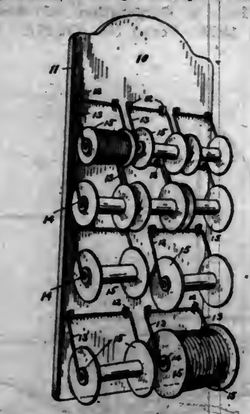


1. A bumper for vehicles, comprising cushion means, protective means for said cushion means affording an exposed abutting surface for said bumper, and means including a flexible element, whereby said protective means may be secured in operative relation to said cushion means.

1,754,113. MERCHANDISE-DISPLAY APPARATUS. BASIL N. MACGREGOR, Warren, Ohio, assignor to The Packard Electric Company, Warren, Ohio, a Corporation of Ohio. Filed Oct. 21, 1925. Serial No. 63,839. 1 Claim. (Cl. 242—134.)

In apparatus of the class described, the combination of a sheet metal panel having hooks on the face thereof struck up from the metal thereof and arranged in pairs, said

panel having marginal rearwardly extending flanges, hangers arranged on the respective pairs of said books and



comprising horizontally extending pivots, and spools rotatably arranged on said pivots with the flanges of said spool in frictional engagement with the face of said panel.

1,754,114. HAT COVER. STANLEY MANOS, New York, N. Y. Filed Aug. 10, 1926. Serial No. 128,407. 1 Claim. (Cl. 2—187.)



A rain shedding hat cover adapted to be collapsed into small space for carrying in the pocket, comprising a body portion of thin stretchable light waterproof material constructed to the general configuration of a hat and having a crown part with a top wall and a side wall adapted to be stretched over the top and side of the crown of a hat to adapt the top and side walls of the cover to hats of different sizes, said body portion also having a brim part extending from the bottom of the side wall and adapted to be stretched outwardly over the brim of a hat to adapt the brim part to hat brims of different widths, the free edge part of the body portion being contracted and turned inwardly beneath the brim part to provide an under securing flap and being of sufficient width to engage beneath the brim of the hat and hold the body portion in stretched position over the hat, the overturned part of the under securing flap being secured to the underside of the adjacent outer edge part of the brim part of the cover to provide an extension lip of double thickness to protect the body portion against cutting by the edge of the hat brim and to assist the under securing flap in holding the body portion in stretched position over the hat.

1,754,115. ANTIRATTLING DEVICE. DAISY W. MELL, Athens, Ga. Filed Oct. 24, 1927. Serial No. 228,445. 3 Claims. (Cl. 296—44.)

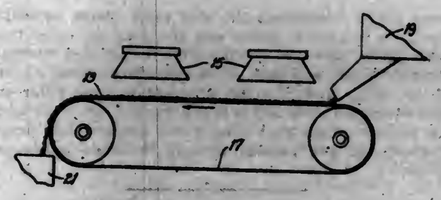


1. An anti-rattling device comprising a forked member of yielding material having parallel limbs arranged to embrace the upper edge of a pane of glass, said members being of a length sufficient to pass between the edge of the glass and the adjacent walls of a casing in which the glass slides when the glass is in fully lowered position, and to wedge the pane of glass tightly in its casing.

1,754,116. ELECTRODE SUITABLE FOR ARC WELDING. FRANCIS MEUNIER, Hyon les Mons, Belgium, assignor to La Soudure Electrique Autogene S. A., Brussels, Belgium. Filed Mar. 8, 1929, Serial No. 345,620, and in France Mar. 12, 1928. 2 Claims. (Cl. 219—8.)

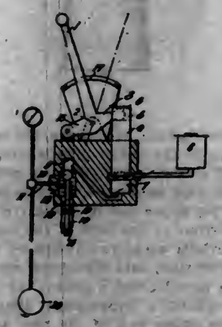
1. An arc-welding electrode, comprising a rod having a coating containing 3–5% of alkali metal nitrates.

1,754,117. METHOD OF REDUCING THE POISONOUS EFFECTS OF NICOTINE AND THE PRODUCT THEREOF. AUGUST J. PACINI, Chicago, Ill., assignor to Charles M. Richter, Chicago, Ill. Filed May 3, 1929. Serial No. 360,256. 3 Claims. (Cl. 131—60.)



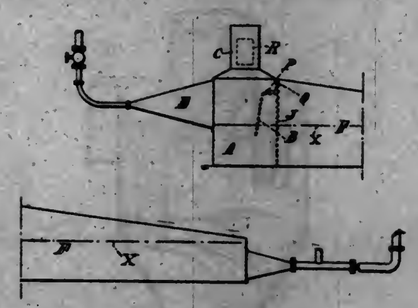
1. The method of treating cured tobacco containing toxic nicotine which comprises artificially irradiating said tobacco, to reduce the toxicity of the nicotine content of said tobacco, and substantially maintaining said nicotine content unaltered.

1,754,118. HYDRAULIC POWER-TRANSMITTING APPARATUS. REGINALD KIRSHAW PIERSON and THOMAS SMITH DUNCAN, Westminster, England, assignors to Vicker's Limited, Westminster, England, a British Company. Filed June 18, 1929, Serial No. 370,672, and in Great Britain Mar. 10, 1928. 4 Claims. (Cl. 60—54.6.)



4. Hydraulic power transmitting apparatus comprising in combination a hand-operated plunger pump, a liquid-pressure actuated motor, a pipe connecting said pump and said motor, an unbalanced non-return delivery valve in said pipe, a stem to said valve, at least one stop fitted on said stem, a hand lever for reciprocating said pump plunger, means associated with said hand lever and stop for mechanically holding said valve closed when said plunger is at the end of its delivery stroke and mechanically opening said valve when said plunger is moved beyond the end of its normal suction stroke.

1,754,119. APPARATUS FOR SEPARATING LIQUIDS OF DIFFERENT DENSITIES. FRANK PINK, Portsmouth, England. Filed Mar. 29, 1928, Serial No. 265,713, and in Great Britain Jan. 27, 1928. 2 Claims. (Cl. 210—51.)



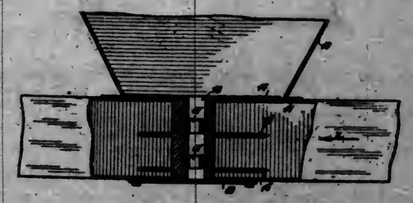
1. An apparatus for separating liquids of different densities, comprising a horisontal separating vessel composed of front and rear chambers with communicating openings therebetween, a depending baffle in the front chamber, one way valve means in the baffle and between the chambers opening toward the top of the front chamber, a plurality of parallel conical inlet members located exteriorly of and opening at their base portions into the forward end of said front chamber, a single source of mixture supply connected to the smaller ends of said conical inlet members for delivering the mixture thereto, said conical members proportionately increasing in cross sectional area toward the front chamber to reduce the velocity of the mixture before reaching the chamber to such extent as to prevent turbulent movement of the mixture into and through the horisontal vessel, and means in the upper part of the front chamber for drawing off the segregated lighter liquid from the mixture.

1,754,120. VACUUM ELECTRIC TUBE. ERNEST YEOMAN ROBINSON, Withington, Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited, a Company organized under laws of Great Britain. Filed June 27, 1924, Serial No. 722,811, and in Great Britain July 16, 1923. 11 Claims. (Cl. 250—27.5.)



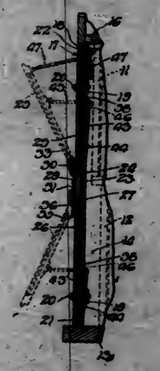
1. For a vacuum space current device, an electrode structure comprising a rigid elongated support, a plurality of electrode carriers having portions engaging said support and constrained to move only in a direction longitudinally thereof to aline said carriers longitudinally and position them transversely of said support, said carriers having electrode-positioning surfaces which are alined when said carriers are alined on the support, and an elongated electrode, which is rectilinear and of uniform cross section throughout its length, said electrode engaging the alined electrode-positioning surfaces of said carriers and being thereby positioned transversely with respect to said support.

1,754,121. FEED APPARATUS. DONALD S. SAMMIS, Stratford, Conn., assignor to The New Haven Sand Blast Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 16, 1928. Serial No. 262,241. 7 Claims. (Cl. 302—36.)



1. In a feed apparatus for finely divided material, a feed plate comprising a hollow shaft, and platforms extending from said hollow shaft, there being openings in said shaft above the platforms.

1,754,122. WINDOW STRUCTURE. JOHN B. SAUNDERS and JOE KRANIG, Park Falls, Wis. Filed May 15, 1929. Serial No. 363,306. 3 Claims. (Cl. 20—55.)

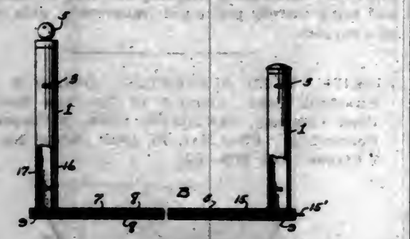


1. In combination with a window structure, a frame, means for securing said frame in said window structure, sash members, arms projecting beyond the vertical edges of said sash members, means on said frame providing sockets in which said extending portions may be pivotally mounted, plates on said frame, arms pivotally mounted on said sash members extended through openings in said plates, and means for retaining said arms in engagement with said sash members with portions thereof extending over said plates.

1,754,123. ELECTRIC TOY FENCE. JOHN P. SCHERY, Pittsburgh, Pa. Filed Dec. 3, 1928. Serial No. 323,330. 5 Claims. (Cl. 46—37.)

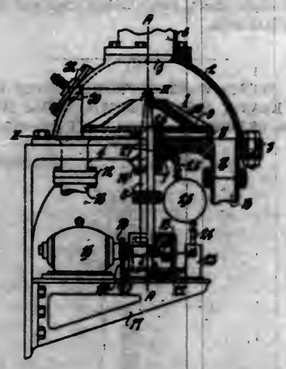
1. A toy fence comprising posts, a sectional base to which the posts are attached, fence sections detachably connected with the posts, lamps carried by some of the posts at their upper ends, socket members at the ends of the base sections, each member having a transversely ar-

ranged socket and a longitudinally arranged socket therein, plugs carried by some of the base sections for engaging the sockets of other sections and means for electrically



connecting the lamps on the posts with the socket members and with the plugs of the sections which carry the lamp supporting posts.

1,754,124. DISTRIBUTION MEANS FOR PULVERULENT MATERIAL. CHARLES SKENTELBERY, Denmark Hill, and GEORGE ROSCOE ALDEN, Westminster, England. Filed May 31, 1928, Serial No. 282,026, and in Great Britain May 9, 1928. 9 Claims. (Cl. 302—28.)

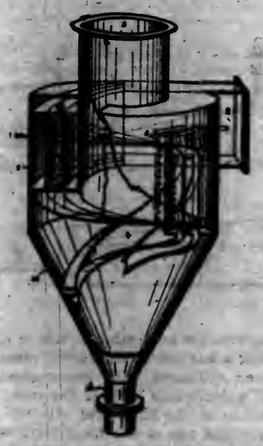


1. A distributor for pulverized fuel comprising a circular chamber having an axially disposed inlet and a plurality of outlets equally spaced apart and equi-distant from the central axis of the chamber, an impeller mounted in the chamber and rotatable about the axis thereof, and means for admitting auxiliary air to agitate the fuel in the region of the junction of the chamber with the supply pipe and before entry into the impeller.

1,754,125. ELECTROLYTIC RECOVERY OF METALS. STANLEY COCHRAN SMITH, London, England. Filed Apr. 19, 1929, Serial No. 356,591, and in Great Britain Mar. 30, 1928. 1 Claim. (Cl. 204—14.)

A process for substantially completely exhausting the nickel by electro-deposition from nickel sulphate solutions of low acidity, which process comprises passing an electric current through the solution at a current density of approximately 17 amperes per square foot of cathode area between an insoluble anode and a cathode, continuing the operation until the solution has become substantially free from nickel, meanwhile converting the sulphuric acid thereby produced in the solution into ammonium sulphate substantially simultaneously with its production, whereby the low acidity is constantly maintained during the entire process, and reducing the current density to approximately 8.5 amperes per square foot when the nickel concentration reaches approximately one per cent.

1,754,126. APPARATUS FOR SEPARATING DUST FROM GASES. ARTHUR STIENENART, Boitsfort, Belgium. Filed Jan. 28, 1928, Serial No. 250,267, and in Belgium Feb. 4, 1927. 11 Claims. (Cl. 183—85.)



3. Apparatus for separating dust from gases by centrifugal force, comprising concentrically arranged compartments for conducting gas, and arranged to effect circuitous travel thereof, an outlet toward which the gas passes after leaving the compartments, a receiver for the separated matter delivered from the discharge ends of the compartments, a plurality of ducts extending toward the said receiver, one said duct being disposed at the delivery end of each compartment except the outer compartment.

1,754,127. PIPE COUPLING. HERMANN SRULOWITZ, Vienna, Austria, assignor to the Firm of Alex. Friedmann, Vienna, Austria. Filed Oct. 1, 1925, Serial No. 59,925, and in Austria Oct. 20, 1924. 7 Claims. (Cl. 285—93.)

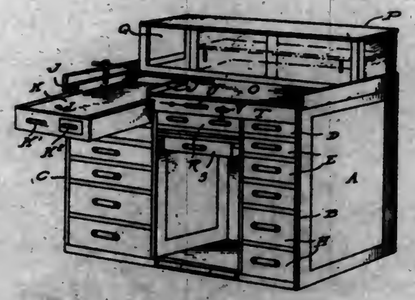


2. In a swivel joint with straight passageways for the pipes or hose of railway cars, two members angularly displaceable relatively to each other, one of said members consisting of two parts with a pivotal connection between them, a sealing means on one part of the composite member, and a spherical bearing surface on the other part of said composite member, the other non composite member co-operating with both parts of the composite member by means of a corresponding sealing means and a corresponding sealing means and a corresponding spherical bearing surface both arranged simultaneously on said member.

1,754,128. WATCHMAKER'S CABINET. ARTHUR S. THOMPSON, Ontario, Calif. Filed Dec. 17, 1928. Serial No. 326,521. 2 Claims. (Cl. 312—160.)

1. A cabinet having a top provided with a compartment at the rear portion thereof for housing a motor and a

recess in said top opposite said compartment, a lathe board slidably mounted in said recess and means for securing said board in various positions of adjustment

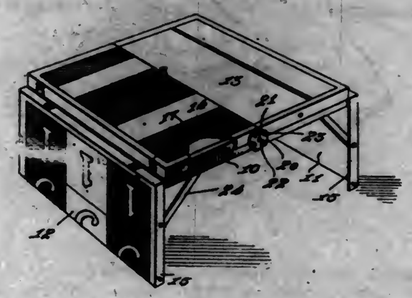


with respect to said cabinet, whereby a lathe mounted on said board may be brought to a convenient position of use and the belt driving said lathe from said motor may be tightened.

1,754,129. PROCESS OF WATER PURIFICATION. JOHN T. TRAVERS and OLIVER M. URBAIN, Columbus, Ohio, assignors, by direct and mesne assignments, to The Ohio Sanitary Engineering Corporation, Columbus, Ohio, a Corporation of Ohio. Filed July 13, 1928. Serial No. 292,587. 6 Claims. (Cl. 210—2.)

1. A process for purifying water comprising incorporating in the water colloidal matter having no biochemical oxygen demand, raising the hydroxyl ion concentration of the solution to cause the colloids to carry a complete negative charge, and adding an electrolyte characterized by its capacity to dissociate and release positive ions for adsorption by the negatively charged colloids and negative ions for union with the water of the solution to effect a release of nascent oxygen in an amount adequate to satisfy the biochemical oxygen demand of the water.

1,754,130. GAME APPARATUS. EDWARD R. UCHIYAMA, Sacramento, Calif. Filed May 15, 1929. Serial No. 363,845. 2 Claims. (Cl. 273—136.)



1. A game apparatus comprising a frame, game boards of sectional formation hingedly mounted upon opposite sides of said frame, each game board comprising two sections hinged to opposite edges of one side of said frame and having flange portions carried upon their outer sides to overlie the adjacent portions of said frame, the sections of either game board being movable on their hinges to a position at right angles to the frame to serve as legs for the frame and the other game board, and brace members carried by said frame and adapted for attachment to the leg forming sections.

1,754,131. COKING RETORT OVEN. JOSEPH VAN ACKEREN, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 4, 1923. Serial No. 636,535. 31 Claims. (Cl. 202—143.)

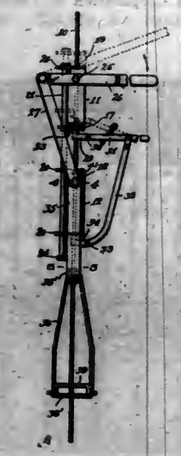


1. In a coke oven battery, in combination: a series of alternate horizontal coking chambers and heating walls therefor arranged laterally of each other, each of said heating walls comprising vertical combustion flues; a plurality of horizontal flues in each of said heating walls and respectively connecting a plurality of the combustion flues of their respective heating walls; the horizontal flues being also communicably connected with the horizontal flues of one of the adjacent heating walls so that the heating walls are operatively connected in pairs; and a series of crosswise regenerators, each as wide as but not as great in vertical dimensions as each of said heating walls, the regenerators being grouped in parallel in pairs of contiguous regenerators, with the alternate pairs operable in alternation with the intermediate pairs for inflow and outflow, each regenerator being connected by forked duct means with combustion flues of both of two adjacent heating walls comprising one heating wall of each of two of the connected pairs thereof, and each of the combustion flues in each of the heating walls having flow connection by said forked duct means with a pair of said regenerators adapted to operate in parallel with each other for gas flow simultaneously in the same direction, each of the pairs of regenerators when operable for inflow being jointly operable for conveying air to the flues or separately operable for conveying air and an extraneously derived gas; substantially as specified.

29. In a coking retort oven battery, the combination with a series of side-by-side coking chambers and intermediate heating walls, having combustion flues, and a series of side-by-side regenerators communicably connected by ducts with said combustion flues and operatively disposed in side-by-side groups adapted to serve in alternation for inflow preheating of fuel gas and air simultaneously and for concurrent waste-gas outflow with masonry partition walls separating said groups, of vent passages in the said partition walls, whereby joints or crevices therein through which gas leakage may be induced from an inflow gas regenerator to an outflow waste-gas regenerator, by pressure differential across said partition wall, may be interrupted by said vent passages and said pressure differential may be thereby broken in said partition wall.

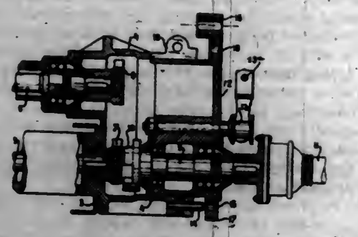
CARNEGIE LIBRARY OF ATLANTA

1,754,132. SCAFFOLD JACK. RICHARD VAN BEKKUM, Marysville, Mich., assignor to Harry van Raaphorst, Port Huron, Mich. Filed Nov. 14, 1928. Serial No. 319,321. 7 Claims. (Cl. 254—135.)



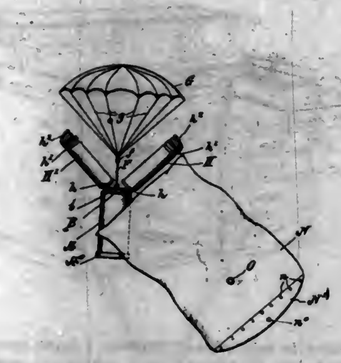
1. In a scaffold jack, means for raising and lowering the jack upon a cable, and a supporting-stirrup for the scaffold swiveled to said raising means so as to swing in either direction laterally.

1,754,133. CHANGE-OVER MECHANISM. HIDDE WIBIUS VAN DER PLOEG, Apeldoorn, Netherlands. Filed Aug. 28, 1928, Serial No. 302,541, and in the Netherlands July 12, 1926. 3 Claims. (Cl. 74—7.)



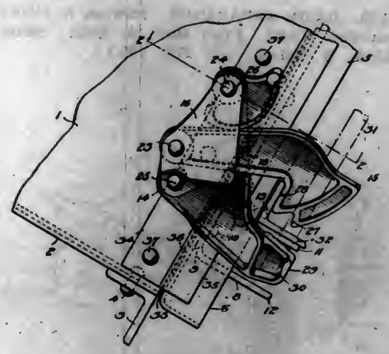
1. In a change-over mechanism, a stationary support, a member mounted to rotate bodily and move axially in said support, an intermediate shaft rotatably mounted in said member and disposed eccentrically relative to the axis of rotation of the latter, a driving shaft, and a plurality of driven shafts, and clutch members connected with certain of the shafts and adapted incident to rotary and axial movement of said member to selectively couple the drive shaft with either of the driven shafts.

1,754,134. MEANS FOR OPERATING AIRCRAFT LIGHTS. SAMUEL D. WILEY, Metuchen, N. J. Filed June 24, 1926. Serial No. 873,828. 14 Claims. (Cl. 102—24.)



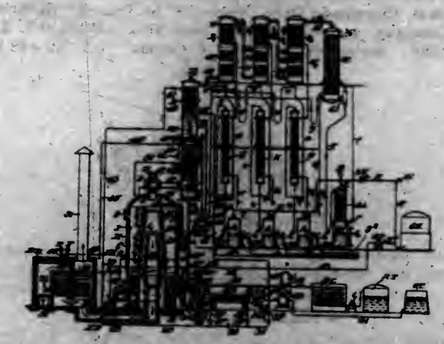
14. The method of retarding the ignition of aerial flares which consists in wrapping around the flare casing a band of flexible material which will unwind as the flare falls through the air, finally releasing the ignition means whereby such ignition is effected.

1,754,135. RAILWAY HOPPER CAR. WILLIAM E. WINE, Toledo, Ohio. Original application filed Nov. 16, 1923, Serial No. 675,099. Divided and this application filed Jan. 25, 1929. Serial No. 335,051. 8 Claims. (Cl. 105—308.)



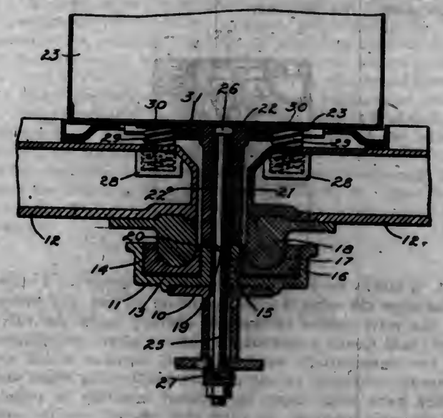
1. In a railway car having a hopper provided with a discharge opening, the combination with a door for closing said opening, of a stiffening bar located on the hopper at the opening and formed of angular contour including a flange lying against the outer face of the hopper side sheet and a portion extending outwardly from the hopper constituting an abutment for the door.

1,754,136. PROCESS AND APPARATUS FOR CONVERTING HEAVY HYDROCARBON OILS INTO LIGHTER PRODUCTS. FRANCIS SALES WOIDICH, Sapulpa, Okla. Filed July 8, 1924. Serial No. 724,865. 14 Claims. (Cl. 196—58.)



11. The process as claimed in claim 8 in which the horizontal surfaces are the surfaces of molten metal.

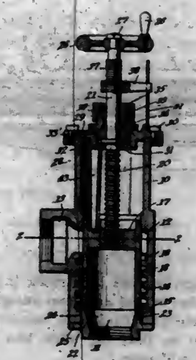
1,754,137. HIGH-SPEED ARTICULATED CAR. WALTER S. ADAMS, Philadelphia, Pa., and EUGENE SLINGLUFF, Sr., Cleveland Heights, Ohio, assignors to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1929. Serial No. 391,688. 15 Claims. (Cl. 105—4.)



11. In combination with adjacent car ends supported from a common truck, a drum vestibule arranged above said ends and means axially supporting the drums from the truck.

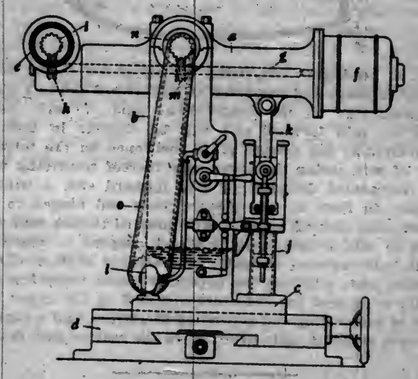
1,754,138. CONTROL VALVE. GEORGE M. AGEE, Owensboro, Ky. Filed Jan. 3, 1929. Serial No. 330,079. 12 Claims. (Cl. 251—84.)

2. In a valve of the class described, a valve body having a main supply passage, and a supplemental supply spiral passage surrounding said main supply passage, inlet and outlet openings communicating with said passages, and a valve controlling the supply through said



passages and for permitting the supply to pass from said inlet to said outlet openings through said spiral passage when the main passage is closed by said valve.

1,754,139. GRINDING MACHINERY. HARRY HALES ASBRIDGE, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England, a British Company. Filed Feb. 7, 1929, Serial No. 338,292, and in Great Britain Mar. 3, 1928. 2 Claims. (Cl. 51—55.)

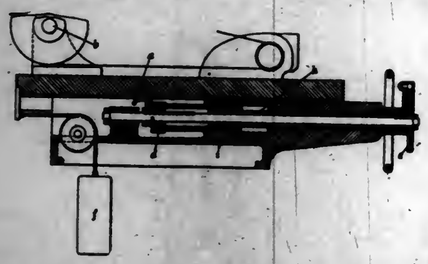


1. In a grinding machine, in combination, a column, a beam pivotally mounted upon said column, a grinding wheel mounted at one end of said beam, an electric motor mounted at the other end of said beam, means driving said grinding wheel from said motor, a hydraulic motor connected to said beam for oscillating the same upon said column, a hydraulic pump supplying pressure fluid to said hydraulic motor, and means driving said pump from said electric motor.

1,754,140. GRINDING OR ABRADING MACHINE. HARRY HALES ASBRIDGE, Ashton-on-Mersey, England, assignor to The Churchill Machine Tool Company Limited, Broadheath, near Manchester, England, a British Company. Filed Mar. 14, 1929, Serial No. 347,090, and in Great Britain Apr. 24, 1928. 2 Claims. (Cl. 51—165.)

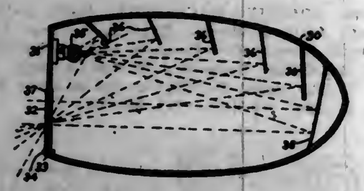
1. In the feeding mechanism of grinding machines, in combination, a grinding wheel, a slide carrying said wheel,

a bed upon which said slide is mounted, a spindle, a cam having a plurality of gaps or recesses in its operative face keyed to said spindle, a ratchet wheel also secured upon said spindle with gaps therein corresponding with



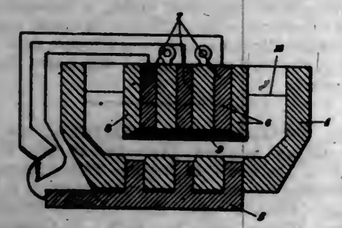
the gaps in the cam, a pawl imparting intermittent movements to said ratchet wheel and cam except when it enters the gaps in the ratchet wheel, and means upon said slide engaging said cam so that the slide has feed movements imparted to it by said cam.

1,754,141. AUTOMOBILE HEADLIGHT. CARSON L. BIGBEE, Los Angeles, and JOHN COUCH, San Mateo, Calif. Filed Oct. 1, 1928. Serial No. 309,585. 2 Claims. (Cl. 240—41.)



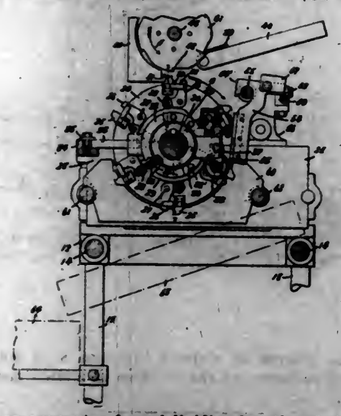
1. A headlight comprising an elongated casing ellipsoidal in shape and truncated at its forward end in a plane perpendicular to the longitudinal axis of said casing whereby said forward end will be circular in form, a semi-circular flat closure plate positioned on the forward end of said casing the lower edge thereof coinciding with the horizontal diameter of said forward end, a window similar in form to said closure plate and hinged to the lower edge thereof, screw means adapted to lock said window to said casing, a light socket adapted to receive a light bulb fastened centrally to the inner surface of said closure plate adjacent the uppermost point thereof, a plurality of spaced flat reflectors attached to the upper surface of said casing and depending therefrom, and a slightly concave reflector plate attached to the rear of said casing.

1,754,142. ELECTRIC FURNACE. EMILIEN BORNAND and HANS ARNOLD SCHLAEPFER, Geneva, Switzerland. Filed Nov. 24, 1928, Serial No. 321,740, and in Switzerland Dec. 8, 1927. 3 Claims. (Cl. 266—1.5.)



1. An electric furnace for metal treating, comprising a furnace chamber adapted to receive the metal to be treated, and a vertically movable electrode adapted to be inserted into the molten metal, the bottom face of said electrode having a cavity formed therein for receiving an additional substance to be incorporated with the molten metal.

1,754,143. MACHINE FOR CUTTING GLASS CANE OR TUBES. CARL A. BROWN and ANDREAS C. NIELSEN, East Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Oct. 5, 1928. Serial No. 310,548. 6 Claims. (Cl. 49—48.)



1. In an apparatus for subdividing lengths of glass cane or tubing, the combination of a series of aligned chucks for supporting a length of cane or tubing, a scoring means, a breaking means, and means for causing a movement of said chucks to bring said length successively into engagement with said scoring and breaking means.

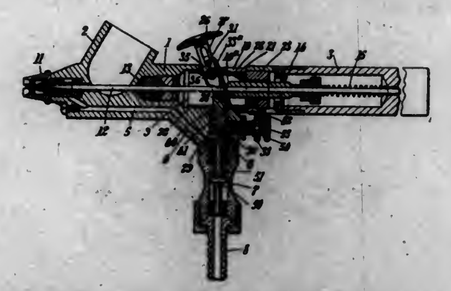
1,754,144. VALVE GUIDE. GEORGE H. BRUTSCHER, Pittsburgh, Pa. Filed May 31, 1929. Serial No. 367,517. 2 Claims. (Cl. 51—262.)



1. A means for providing a temporary guide for a valve stem when the valve is to be ground on its seat, and wherein the valve passes through an opening below the valve seat, said means comprising a tubular sleeve constructed of two substantially semi-cylindrical sections which are hingedly connected at one of their confronting edges and which have their upper ends flared inwardly to permit of the same receiving the valve stem therein and the said sleeve being inserted through the mentioned opening and means connected with the sleeve sections and tending to force the same away from each other and into tight frictional engagement with the wall provided by the opening.

1,754,145. SPRAYING APPARATUS. CHARLES LAURENCE BURDICK, London, England, assignor to The Aerograph Company Limited, London, England. Filed Jan. 28, 1928, Serial No. 250,276, and in Great Britain May 9, 1927. 8 Claims. (Cl. 91—45.)

1. In a spray device having independent air and liquid control valves, a control member mounted for movement in one direction to operate one of the valves and for movement in another direction for operating the other of said valves, and means whereby the control member is



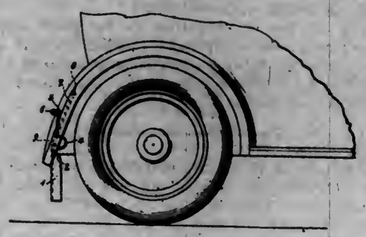
locked against movement in one of such directions until its movement in the other of such directions has been accomplished.

1,754,146. COFFEE FILTER. GIOVANNI CALVINO, Milan, Italy. Filed Sept. 13, 1928, Serial No. 305,697, and in Italy Jan. 31, 1928. 3 Claims. (Cl. 53—3.)



1. A coffee filter, comprising a cylindrical vessel with a perforated fixed bottom whereon pulverised coffee is deposited; a removable perforated disc deposited on top of the coffee and whereon boiling water is poured; and an imperforate piston removably fitting in said vessel above the water and having an airtight sliding engagement with the inner surface of the side wall of the vessel; said piston adapted to be removed from the vessel to enable the introduction of the coffee, the removable perforated disc and water, and then reinserted into and moved downward toward the water to force the latter through the coffee and discharge it through the perforated fixed bottom of the vessel.

1,754,147. MUD-GUARD ATTACHMENT. WILFRED A. COOKSON, Freeport, Me. Filed Oct. 8, 1928. Serial No. 311,034. 4 Claims. (Cl. 280—153.)



1. A curtain attachment for mud guards comprising a clamp shaped from a single piece of material and bent to define integral hinges and upper and lower clamp portions respectively, a flexible element attached to the upper of the clamps and engageable with the exterior surface of the mud guard.

1,754,148. FUMIGATING COMPOUND AND PROCESS OF PRODUCING THE SAME. KENNETH F. COOPER, Great Neck, N. Y., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed May 24, 1923. Serial No. 641,260. 16 Claims. (Cl. 167—35.)

8. As an article of manufacture, a composition of matter which comprises a mixture of inert material with a cyanogen compound of a metal, substantially free from alkali metal compounds.

1,754,149. SHIP. JOHN H. CUMMINS, Dallas, Tex. Filed Feb. 6, 1928. Serial No. 252,213. 5 Claims. (Cl. 115—37.)



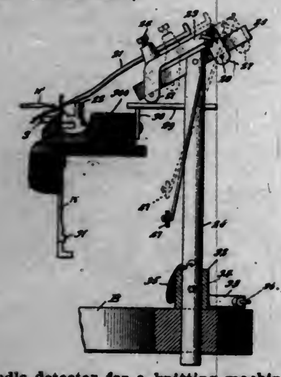
1. In a ship construction a hull embodying spaced fore and aft hull sections connected in longitudinal alignment by a bridge portion and providing a transverse undercut extending between the hull sections beneath the bridge portion, said hull sections being of like external outlines and each having an entrance and a counter, propellers mounted in the counter of each hull section one to each side of the longitudinal center of the hull, and a rudder mounted rearwardly of each counter at the longitudinal center line of the hull.

1,754,150. SPRING CLIP FOR RAILWAY SIGNAL TORPEDOES. THOMAS B. DUTCHER, Versailles, Pa. Filed Aug. 5, 1929. Serial No. 383,583. 5 Claims. (Cl. 246—487.)



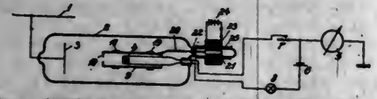
1. A torpedo comprising a case portion, a plate applied to the said case portion having an intermediate transversely extending spring tongue and slots at opposite sides of the said tongue, a torpedo holding member attached to the said plate by deflecting the said tongue portion and passing the holding member between the deflected portion and the said plate, substantially as described.

1,754,151. CIRCULAR-KNITTING MACHINE. FRANK LEONARD ELLIOTT, Hildebran, N. C., assignor to Scott & Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed June 17, 1929. Serial No. 371,522. 5 Claims. (Cl. 66—157.)



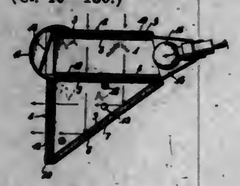
1. A needle detector for a knitting machine comprising a detector member, and a carriage supporting said member, in combination with a slide permitting said member to move simultaneously vertically and radially away from the needles, and means adapted to move said carriage on said slide.

1,754,152. SERIES RESISTANCE FOR ELECTRIC MEASURING INSTRUMENTS. WERNER ESPE, Berlin-Charlottenburg, Germany, assignor to Siemens Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 19, 1925, Serial No. 63,431, and in Germany Sept. 10, 1924. 5 Claims. (Cl. 175—183.)



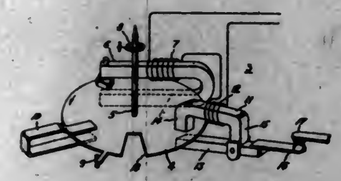
5. In a circuit for measuring electric values a measuring instrument having a series resistance comprising a thermionic high vacuum tube having an anode and a cathode connected in series with said instrument and a cylinder within said tube surrounding the cathode for screening it against the anode to raise the saturation voltage of said tube and means for shifting said cylinder, comprising an iron core attached to said cylinder, a solenoid coil movably disposed outside of said tube and surrounding the tube portion within which said core is located, and means for energizing said coil to enable it to hold said core in its interior when the coil is shifted.

1,754,153. SIGN. SAMUEL FISCHER and JAMES J. BRESLIN, Brooklyn, N. Y. Filed June 4, 1928. Serial No. 282,788. 10 Claims. (Cl. 40—130.)



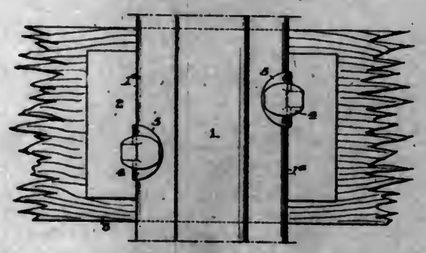
1. A display sign comprising a casing, an opening at the top thereof for the admission of natural light, a plurality of spaced apart transparent plates within the casing adjacent the opening, one of said plates carrying symbols to be displayed, a source of artificial light within the casing positioned approximately between the planes of the plates and means for reflecting both the natural and artificial light through the front of the casing.

1,754,154. ELECTRORESPONSIVE DEVICE. ALAN S. FITZ GERALD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 3, 1928. Serial No. 310,055. 8 Claims. (Cl. 200—01.)



1. A relay including a rotatable disc, a circuit interrupting mechanism including an electromagnet and an armature placed on opposite sides of said disc, means for actuating said armature to a position adjacent said magnet upon a predetermined rotation of said disc, and contacts arranged to be actuated when said armature moves to said position.

1,754,155. RAIL LOCK. FRANK G. FRESEN, Aldan, Pa. Filed July 30, 1929. Serial No. 382,096. 7 Claims. (Cl. 238—315.)



1. The combination with a railroad rail, a tie, and a spike entering said tie for holding the rail thereto, of a locking member arranged to underlie a portion of the head of the spike and be retained thereby against longitudinal movement; said locking member having a portion disposed on each side of the spike for biting engagement with the rail to prevent movement of the latter when said locking member is held in place by the spike.

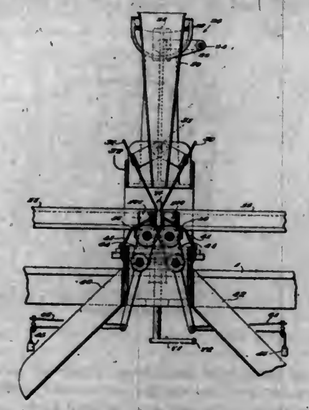
1,754,156. PRODUCTION OF ACIDS. HERMANN FRISCHER, Cologne-Lindenthal, Germany. Filed May 16, 1927, Serial No. 191,919, and in Germany May 26, 1926. 9 Claims. (Cl. 23—158.)

7. The process of producing an inorganic acid other than sulfuric acid comprising causing sulfuric acid to act at a pressure below normal on a mixture of a salt of the acid to be produced with a small quantity of acid of the kind to be produced.

1,754,157. FISH-CUTTING MACHINE. ERNEST A. GALLISON, Watertown, Mass., assignor, by mesne assignments, to Bay State Fishing Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 24, 1927. Serial No. 228,124. 14 Claims. (Cl. 17—3.)

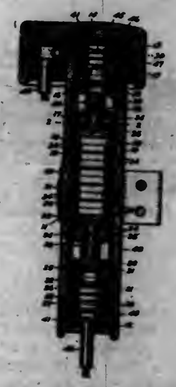
14. A fish filleting machine having, in combination, a pair of band knives having portions thereof running in adjacent planes spaced a short distance apart, and means

for feeding a fish against said portions of the knives including a guide for the fish, a pair of gripping rolls located



in proximity to the cutting edges of the knives for feeding a fish against the same, and movable supporting members upon which said gripping rolls are mounted.

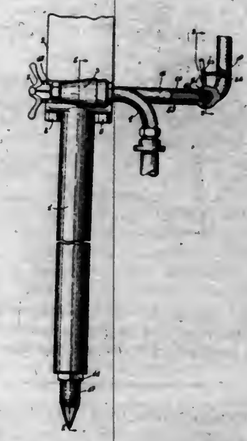
1,754,158. LIGHTNING ARRESTER. VICTOR E. GOODWIN, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 13, 1922. Serial No. 552,375. 3 Claims. (Cl. 175—30.)



1. A lightning arrester comprising a resistance rod, a series of spark gaps surrounding said rod and formed of electrodes having extended surfaces arranged substantially along a cylindrical surface, and a cylindrical conductor concentric with said surface and arranged to form a condenser with said surfaces, said conductor being in electrical connection with one terminal of the arrester.

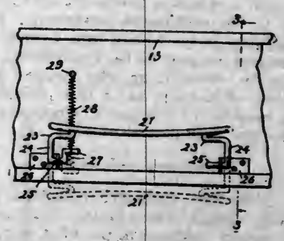
1,754,159. FEEDING MECHANISM. ROBERT T. BANKS, Spokane, Wash., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 7, 1921. Serial No. 435,764. 11 Claims. (Cl. 121—9.)

1. In a rock drill, the combination with a fluid actuated drilling motor, a pressure fluid actuated feeding device therefor comprising relatively movable cylinder and piston elements, a throttle valve controlling fluid supply to the drilling motor, and a rotation handle projecting laterally from one side of the drill and having a grasping portion at its outer extremity, of feed controlling means comprising ports and passages permitting the passage of pressure fluid to said handle and communicating with said feed cylinder element, and a valve carried by said handle nearer the outer end of the latter than the point of supply of pressure fluid to said handle and operable from said grasping portion for enabling the operator to control



the flow of pressure fluid through said handle to said feeding device in accordance with the requirements of the work while the throttle valve remains in a single position of adjustment.

1,754,160. EXTENSION-CORD RETAINER FOR SEWING MACHINES. CHARLES E. COLEGROVE, Lakewood, Ohio, assignor to White Sewing Machine Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed May 21, 1928. Serial No. 279,455. 4 Claims. (Cl. 242—85.)

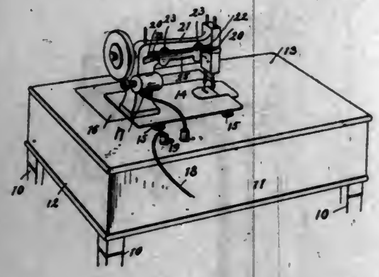


3. A retaining member for an extension cord of an electrically-operated device comprising a swinging element adapted to be pivotally connected to a portion of said device and having portions thereof formed to receive the extension cord when the same is not in use, and another portion adapted to be connected to means for maintaining said element in a plurality of different positions.

1,754,161. EXTENSION-CORD RETAINER FOR SEWING MACHINES. CHARLES E. COLEGROVE, Lakewood, Ohio, assignor to White Sewing Machine Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed May 21, 1928. Serial No. 279,456. 3 Claims. (Cl. 242—85.)

2. In combination with an electrically-operated sewing machine of the type in which the sewing machine head

is lowered during non-use into the machine cabinet, a handle for raising and lowering the head comprising a member



adapted to be secured to the machine head and having spaced cord-receiving and retaining portions about which the extension cord may be wound when not in use.

1,754,162. EXTENSION-CORD RETAINER FOR SEWING MACHINES. CHARLES E. COLEGROVE, Lakewood, Ohio, assignor to White Sewing Machine Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed May 21, 1928. Serial No. 279,458. 2 Claims. (Cl. 242—85.)



1. In combination with an electrically-operated sewing machine adapted to be connected to a power circuit by an extension cord, a retaining means for said cord when the same is not in use, said means comprising a pivoted member mounted in a recess formed in a portion of said sewing machine and adapted to lie flush therein in one position, means for maintaining said member in either its raised or lowered position, and a fixed member secured to the sewing machine in substantial alignment to said pivoted member but spaced therefrom.

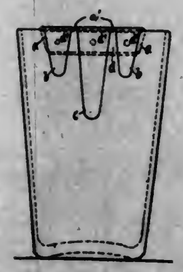
1,754,163. PROCESS FOR STABILIZING BLEACHING LIQUORS. FRITZ DRAISBACH, Ludwigshafen-on-the-Rhine, Germany, assignor to the Firm Joh. A. Benckiser Chemische Fabrik, Ludwigshafen-on-the-Rhine, Germany. Filed Aug. 16, 1926, Serial No. 129,653, and in Germany Jan. 14, 1926. 2 Claims. (Cl. 23—251.)

1. In the art of stabilizing bleaching liquors containing a peroxide bleaching agent, together with an alkali pyrophosphate as a stabilizer, the step which comprises adding an acid salt to the liquor in quantity sufficient to maintain the hydrogen ion concentration of the liquor between the limits P_H 7–P_H 10, said acid salt being an acid phosphate.

1,754,164. PRODUCT FROM ORGANIC DERIVATIVES OF CELLULOSE. CAMILLE DREYFUS, New York, N. Y. Filed Nov. 4, 1926. Serial No. 146,287. 7 Claims. (Cl. 18—56.)

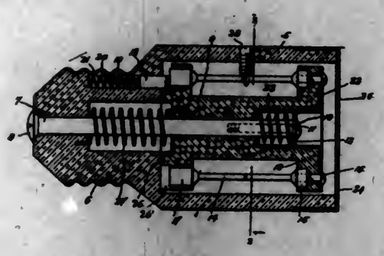
1. A textile material comprising individual filaments of organic derivatives of cellulose, at least some of which filaments are permanently deformed and present a moire design which is permanent.

1,754,165. LIP-PROTECTING HOLDFAST. PAUL FABIAN, Chemnitz, Germany. Filed Oct. 9, 1929, Serial No. 398,442, and in Germany Oct. 22, 1927. 2 Claims. (Cl. 65—13.)



1. A lip protector comprising a curved resilient metal plate formed with openings and spaced resilient fingers extending from the upper edge of said plate, and a rubber strip having lugs to engage in the openings and snugly fitted against the inner surface of the inner plate and spaced from the depending fingers to engage over the edge of a drinking cup.

1,754,166. FUSE. LEE SING FOO, Manchester, N. H. Filed May 7, 1927. Serial No. 189,588. 1 Claim. (Cl. 200—126.)

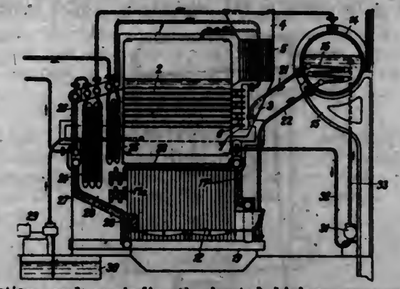


A fuse plug comprising a body having electric contacts arranged therein, a magazine rotatably mounted therein having a tensionally retained spring attached thereto for actuating the same, a plurality of fusable links removably carried by said magazine in constant engagement with one of said contacts, and successively movable into position for engagement with said other contact, a slidably mounted contacting pin carried by the body engaging said other contact and yieldably retained in the path of movement of said links for engagement thereby, and stop means extending through the wall of the body and adjustable from the outside thereof for retaining one of said links in engagement with said contacting pin, said magazine having indicating means arranged thereon associated with the link, whereby to show which of the links is in contacting position.

1,754,167. MARINE BOILER. OTTO H. HARTMANN and HEINRICH PEPPERKORN, Kassel-Wilhelmshohe, Germany, assignors to Schmidt'sche Heissdampf-G. m. b. H., Kassel-Wilhelmshohe, Germany, a Corporation of Germany. Filed June 22, 1927, Serial No. 200,635, and in Germany June 26, 1926. Renewed Feb. 25, 1930. 8 Claims. (Cl. 122—37.)

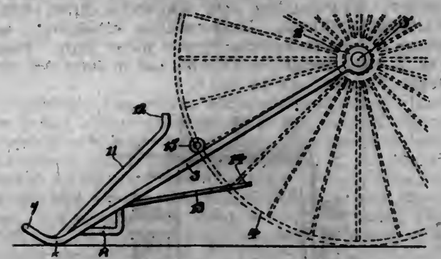
1. In a marine boiler of the return flue type which is subdivided into two steam generators of different pressure, in combination a fire box, a reversing chamber in

communication with the fire box, a fire tube boiler serving as the low-pressure steam generator, said fire tube boiler being in communication with the exit end of said chamber and thereby heated by the gases after their change in



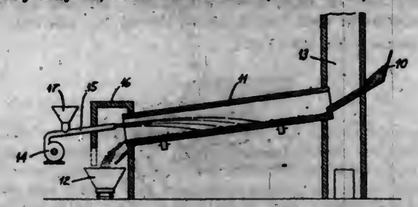
direction, and an indirectly heated high-pressure steam generator having heating elements with heat absorbing parts, the greater portion of said heat absorbing parts being located within the fire box and another portion thereof being located within the reversing chamber.

1,754,168. VINE LIFTER. STANLEY HONEYWELL, Atwater, Ohio. Filed Feb. 28, 1929. Serial No. 342,166. 4 Claims. (Cl. 97—192.)



1. A vine lifter comprising, a supporting element adapted for connection with an axle of a vehicle and projecting forwardly of a wheel of the vehicle, said element being inclined downwardly to provide for a sliding contact with the ground adjacent the forward end of the element, a centrally disposed, rearwardly and upwardly extending deflector element for separating and lifting vines of adjacent rows simultaneously, a pair of spaced deflector elements disposed on opposite sides of said centrally disposed deflector element for removing the vines of adjacent rows respectively from the path of said wheel, and means carried by the supporting element adjacent its point of contact with the ground to provide a support for said supporting element when the forward end of the latter encounters a depression in the ground.

1,754,169. METHOD OF RECOVERING GASIFIABLE METALS AS OXIDES. FRIEDRICH JOHANNSEN, Magdeburg, Germany, assignor to Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany, a Firm. Filed Jan. 4, 1926, Serial No. 79,246, and in Germany May 26, 1925. 2 Claims. (Cl. 75—15.)



1. Process of recovering gasifiable metals as zinc, tin, lead, bismuth, antimony, mercury, etc. in the form of oxides from ores, slags, and other metallurgical products of different grading including finely graded material and coarser grade material, which method comprises passing the material of coarser grading through a metallurgical furnace and heating it therein, and contacting and mixing the heated material on its progress through the furnace but not until it reaches the zone proper of reaction with said finely graded material.

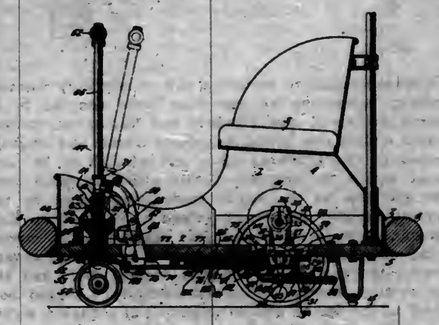
1,754,170. PROCESS FOR TREATING ORES AND METALLURGICAL PRODUCTS, SLAGS, AND THE LIKE. FRIEDRICH JOHANNSEN, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Oct. 14, 1926, Serial No. 141,675, and in Germany Nov. 5, 1925. 3 Claims. (Cl. 75—28.)

1. The process for treating easily fusible ores and metallurgical products which contain volatilizable metals which consists in feeding the charge into a rotary furnace through which it progresses and in which it is continuously agitated, progressively heating the charge in an oxidising atmosphere to a temperature at which the volatilizable metals will be reduced and vaporised, delivering the materials requisite for the completion of the reduction and vaporization of the metals wholly or in part into this highly heated portion of the furnace where the zone of reaction begins where they are continuously mixed with the charge thereby reducing and volatilising the volatilisable metals, and immediately oxidising the metallic vapors so produced, the conditions being so controlled that fusion of the charge in the reduction zone is prevented.

1,754,171. PREPARATION FOR REMOVING OR PREVENTING BOILER SCALE AND OTHER LIKE DEPOSITS. HERMANN KÖPPLINGER, Vienna, Austria. Filed Feb. 10, 1926, Serial No. 87,462, and in Germany Jan. 4, 1926. 5 Claims. (Cl. 87—27.)

1. Preparations for preventing the scale forming constituents of water from settling as hard deposits and for removing incrustations already formed consisting of artificial mixtures, which simultaneously contain a resinous body, a relatively small per cent of protective colloids having the property of emulsifying the resinous body with the water, and essential oils.

1,754,172. AMUSEMENT CAR. JOSEPH C. LUSSE, Philadelphia, Pa. Filed Sept. 28, 1926. Serial No. 138,299. 14 Claims. (Cl. 180—18.)

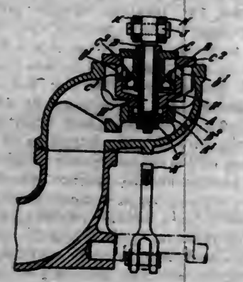


1. In combination, a pair of traction elements, a pair of driving elements therefor, steering means, mechanism for establishing a resilient engagement between said driving elements and said traction elements, and means for operatively associating said mechanism and said steering means, so that the force of engagement of said driving elements may be oppositely varied during a portion only of one movement of said steering means and thereafter held substantially constant during a remaining portion of said movement.

1,754,173. PROCESS OF REMOVING LEAD ARSENATE FROM FRUIT. ARTHUR R. MAAS, Los Angeles, Calif. Filed Dec. 21, 1926. Serial No. 156,265. 2 Claims. (Cl. 146—219.)

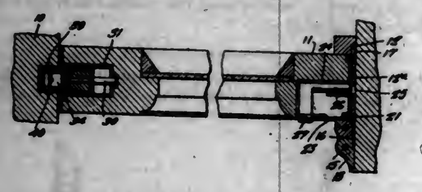
1. The process of removing lead arsenate from fruit which consists in subjecting the fruit which is coated with lead arsenate to the action of a non-acid solution of a thiosulphate capable of dissolving lead arsenate, then washing the fruit with water and allowing the same to dry.

1,754,174. STEAM-REGULATOR VALVE AND THE LIKE. JOHN MITCHELL and JOHN CECIL GEORGE COSSEY, London, England. Filed Oct. 31, 1927, Serial No. 230,082, and in Great Britain Nov. 24, 1926. 2 Claims. (Cl. 277—36.)



1. A steam regulator valve for locomotives or other fluid operated engines, in which the main body contains at least three concentric valves, in which one or more of the valves, or a portion thereof, acts as a piston within another valve.

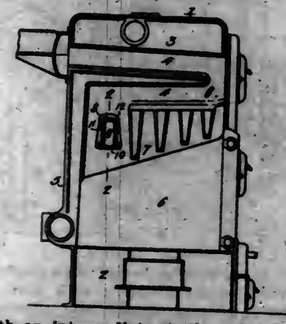
1,754,175. HINGE. CHARLES L. MORGAN, Pittsburgh, Pa. Filed Dec. 28, 1927. Serial No. 243,193. 1 Claim. (Cl. 16—149.)



A hinge adapted to connect a pair of relatively movable members comprising an attaching plate adapted to be secured to one of said members and having an opening therein, a plate also having an opening therein and hingedly secured to the attaching plate and adapted to be positioned within the opening of said attaching plate flush with the face of the latter, guide lugs carried by the hingedly secured plate and extending beyond the face thereof, a second attaching plate adapted to be carried by the other relatively movable member to slidingly engage between the face of the hingedly secured plate and the lugs carried thereby, and a substantially L-shaped bolt guided in the second attaching plate and engaging within the opening of the hingedly secured plate.

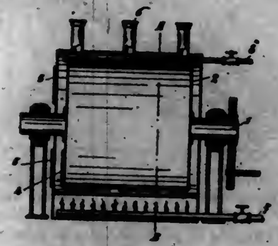
1,754,176. BOILER FURNACE. ABRAM C. MOTT, JR., Lansdale, Pa., assignor to Abram Cox Company, Lansdale, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1927. Serial No. 172,894. 3 Claims. (Cl. 122—228.)

1. The combination in a boiler furnace, of a base; a series of boiler sections arranged side by side, each section having a body portion extending over a combustion chamber and having a rear depending portion, said depending portions forming the back of the combustion chamber, each section having a flue directly in front of the rear depending portion and having transverse perforations in the walls of the overhanging portion communi-



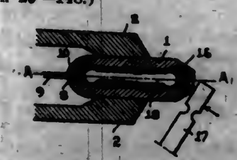
cating with an intermediate portion of the flue; and an air duct extending through the transverse perforations from side to side of the boiler, said air duct having a slot at each side to allow air to pass from the duct to the flue of the boiler furnace.

1,754,177. APPARATUS FOR REGENERATING VULCANIZED RUBBER. ADOLFO MRACH, Milan, Italy, assignor to Societa Italiana Pirelli, Milan, Italy. Filed Oct. 5, 1926, Serial No. 139,710, and in Italy Oct. 31, 1925. 1 Claim. (Cl. 18—2.)



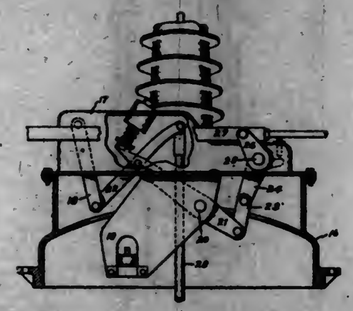
Apparatus for regenerating vulcanized rubber scrap, comprising an outer stationary drum having a chamber in its bottom part; a rotatable inner drum disposed concentrically within the outer drum with its walls spaced therefrom, the inner drum having hollow trunnions on its end walls which project outward through the end walls of the outer drum to connect the interior of said inner drum directly and freely with atmosphere; supporting standards wherein the projecting portions of said trunnions are journalled; driving means connected to one trunnion to rotate said inner drum; and heating means in said chamber for externally heating the inner drum.

1,754,178. PROCESS OF MAKING REMOVABLE EMANATION SEEDS. JOSEPH MUIR, New York, N. Y., assignor to The Radium Emanation Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Jan. 12, 1926, Serial No. 80,851. Divided and this application filed Oct. 7, 1927. Serial No. 224,740. 13 Claims. (Cl. 29—148.)



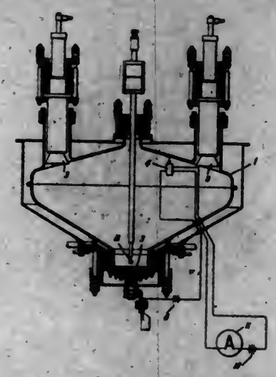
1. The process of making a removable metal seed having a permanent withdrawal member attached thereto, said seed containing radium emanation, comprising removing metal from one end of the tube, forming a reduced aperture at said end to receive a withdrawal member, inserting the withdrawal member through the large end of the tube and against the walls of the reduced end of the tube, charging the tube with radium emanation through the open end, and then closing the tube to provide a finished seed resistant to the escape of the radium emanation.

1,754,179. STRAIGHT-LINE-MOTION MECHANISM. WILLIAM K. RANKIN, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 4, 1927. Serial No. 210,705. 4 Claims. (Cl. 74—5.)



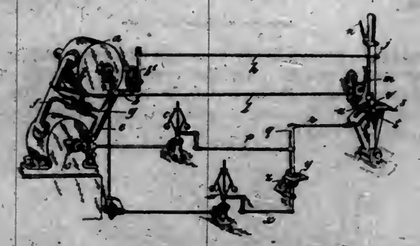
1. Straight line motion mechanism comprising a member having a fixed pivot point adjacent one end thereof, a lever pivoted centrally to the member adjacent the other end thereof, a link having a fixed pivot at one end and pivoted at its other end to one end of said lever, and an operated member attached to the other end of said lever, the central pivot point of the lever being offset from the line connecting the members attached at the opposite ends of the lever.

1,754,180. APPARATUS FOR MEASURING PRESSURE. CAMIL A. SABBAH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 21, 1927. Serial No. 185,546. 4 Claims. (Cl. 175—183.)



1. The combination of a vapor electric apparatus comprising a cathode and an anode enclosed within an evacuated vessel, current supply means connected between said cathode and anode, and means comprising a pair of electrodes insulated from said cathode and anode and arranged to transmit a current dependent on the positive ion density in the vapor between said cathode and anode.

1,754,181. CONTROL MECHANISM FOR POWER-TRANSMISSION GEARING. PEDRO CELESTINO SACCAGGIO, Buenos Aires, Argentina. Filed Nov. 14, 1927, Serial No. 233,244, and in Great Britain Aug. 23, 1927. 11 Claims. (Cl. 74—89.)

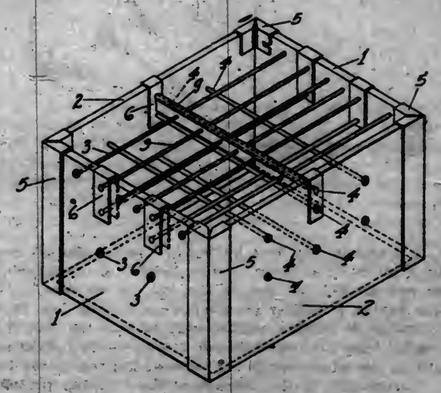


1. Power transmission apparatus for propulsion of vehicles, comprising primary and secondary transmission units with associated means adjustable to provide infinite variation of the transmission ratio between said units, a manual or servo control device for operating said adjustable means, a safety stop adjustable in relation to said control device, a speed sensitive device energized in accordance with the instant speed conditions of the secondary unit, and operative connection between said speed sensitive device and said safety stop to adjust the latter with respect to said control device.

1,754,182. COLORED HEAT-RESISTING GLASS. WILLIAM C. TAYLOR, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a Corporation of New York. Original application filed June 12, 1925, Serial No. 36,737. Divided and this application filed June 10, 1926. Serial No. 115,133. 4 Claims. (Cl. 106—36.1.)

1. A heat resisting green glass which shows high transmission of green light and generally good absorption of other parts of the spectrum, and which glass contains boric oxide and lithia, the ratio of boric oxide to total alkali being less than two to one and which also contains a usual coloring oxide or oxides producing in the heat resisting glass approximately the color which it produces in a basic glass.

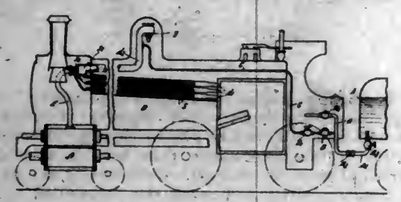
1,754,183. CONTAINER. HENRY WILDBERG, Cincinnati, Ohio, assignor, by mesne assignments, to United Milk Crate Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 16, 1926. Serial No. 155,280. 2 Claims. (Cl. 217—19.)



2. In combination with a crate, a U-shaped piece having a pair of vertically aligned openings, a reinforcing

strip comprising a folded piece of metal with a rod extending through it, said rod extending through the lower opening in the U-shaped piece, said U-shaped piece secured to the lower edge of the crate, and having a key shaped slot for retaining the end of said folded piece of metal.

1,754,184. APPARATUS FOR SUPPLYING STEAM TO ENGINES WHEN THE MAIN SUPPLY IS CUT OFF. ROBERT WOOD, Garwick, Isle of Man. Filed May 23, 1927, Serial No. 193,615, and in Great Britain May 27, 1926. 12 Claims. (Cl. 121—137.)



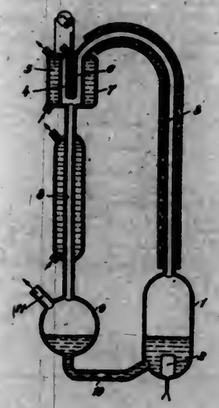
1. In apparatus of the type described in combination;—a steam engine; a supply of steam therefor; a conduit connecting the cylinders of the engine to the said steam supply; a valve adapted to close the said conduit; a supply of water always subject to a pressure less than the fluid pressure necessary to actuate the steam engine; a non-return valve; an injection pipe, one end of which opens into the said conduit between the cylinders and the said valve, and the other end of which is connected through the non-return valve to the said supply of water, so that when the pressure in the said injection pipe rises above that of the water supply the latter is cut-off from the injection pipe; and heating means for vaporising the water supplied to the injection pipe after the said water has passed through the non-return valve.

1,754,185. HOSIERY. JOHN M. ALLEN, Toronto, Ontario, Canada, assignor to Scott & Williams, Incorporated, New York, N. Y. Filed July 2, 1927, Serial No. 203,000. Renewed June 11, 1928. 13 Claims. (Cl. 66—187.)



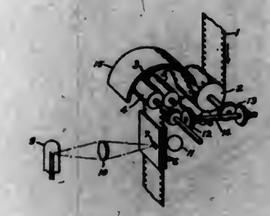
1. A seamless foot hose having a tapering top toe segment, a plurality of insert courses knitted to the tapering sides and around the end of the top toe segment, each course having a number of stitches appreciably less than the number of stitches on the edge of said toe top, the successive insert courses being of a progressively differing length, a diverging bottom toe segment knitted to the insert courses and to the courses of the tapering toe top beyond the ends of the insert courses to meet the lower half of the foot section at the points of commencement of the tapered top segment.

1,754,186. PROCESS OF MANUFACTURING DRYING VARNISHES. HANS BECKER, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Oct. 7, 1926, Serial No. 140,192, and in Germany May 20, 1925. 6 Claims. (Cl. 204—31.)



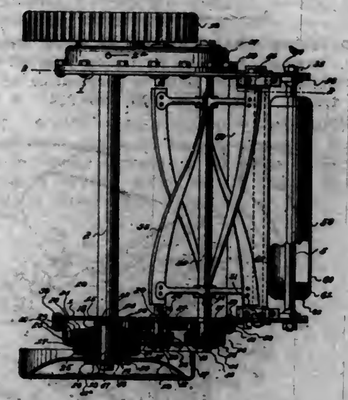
5. The process for the manufacture of drying varnishes, which consists in subjecting hydrated naphthalene to electric discharges, adding the product of the treatment to more hydrated naphthalene, subjecting the mixture to electric discharges and separating the product obtained by distillation from the admixed raw product.

1,754,187. BELT OR STRIP DRIVING ARRANGEMENT. ALDA V. BEDFORD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1927. Serial No. 230,864. 5 Claims. (Cl. 271—2.1.)



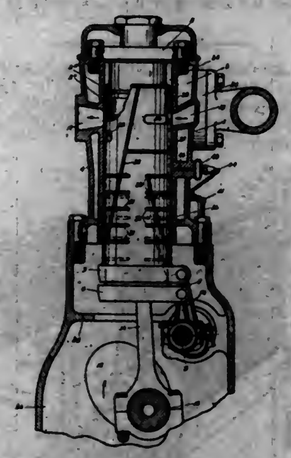
1. Driving apparatus for a belt or strip comprising a driving roller therefor, a member arranged to press the belt or strip against the driving roller, a second driving member for the belt or strip arranged to feed the same into a loop from which it passes to the driving roller, and means adapted to vary with variations in the size of the loop the curvature of the belt or strip as it reaches the roller.

1,754,188. LAWN MOWER. HARRY T. COLDWELL, Newark, N. J., assignor to Philadelphia Lawn Mower Company Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 10, 1926. Serial No. 114,995. 18 Claims. (Cl. 56—249.)



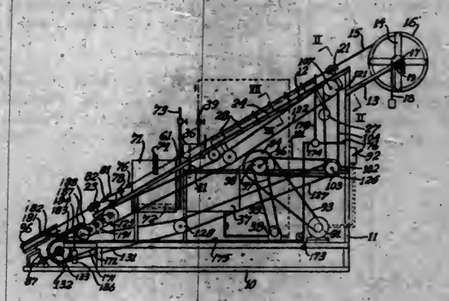
1. In a lawn mower, a pair of gearing housings, each housing having an endless marginal flange and constructed identically the same as the other so that it is adapted for use at either side of the machine.

1,754,189. SLEEVE-VALVE ENGINE AND OILING MEANS. WALTER S. FISHER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 12, 1927. Serial No. 174,895. 18 Claims. (Cl. 123—196.)



1. A sleeve valve engine embodying a cylinder, a piston adapted to reciprocate within the cylinder, and a valve mechanism operated in synchronized relation with the piston comprising a cylindrical sleeve having admission and discharge ports, and means for facilitating the lubrication of the sleeves consisting of a mechanism adapted to supply a gas under positive pressure to the surface of the sleeve.

1,754,190. WIRE-TEMPERING APPARATUS. ARTHUR W. HARRIS, FREDERICK M. SUCHER, and JOHN L. KING, Atlanta, Ga., assignors to Atlanta Harness & Reed Manufacturing Company, a Corporation of Georgia. Filed Apr. 23, 1928. Serial No. 272,320. 22 Claims. (Cl. 266—3.)



1. In a wire tempering apparatus, means for progressively feeding and drawing the wire through a heating zone, a quenching tank and a tempering bath, tension means within the quenching tank and effective to maintain the wire straight during quenching, a reel upon which the tempered wire is wound and increasing in diameter with each succeeding layer of wire thereon, means for driving the reel, and means interposed between the driving means and the reel for maintaining the peripheral speed of the reeled wire constant.

1,754,191. OIL-CHANGE INDICATOR. ELMER H. SHIELDS and ORVILLE E. SUNTTERLIN, Maryville, Mo., assignors of one-third to William B. Price, Maryville, Mo. Filed Aug. 27, 1928. Serial No. 302,239. 2 Claims. (Cl. 40—96.)

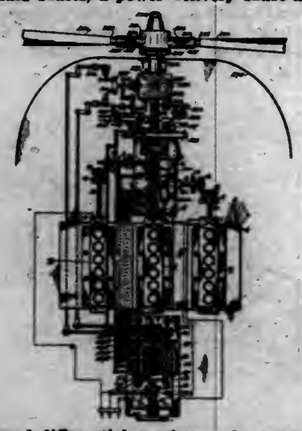


1. An oil change indicator device comprising a casing adapted to be mounted in display position and provided with a window opening, a series of endless bands each provided with a set of indicating numerals, and an expansible spring metal holder fixedly positioned within said casing and providing means for tautly supporting said bands in slightly spaced relation to the interior of the casing and permitting sliding adjustment of the bands for variously displaying the numerals thereon through said opening.

1,754,192. MULTIPOWER-PLANT TRANSMISSION FOR AIRCRAFT AND THE LIKE. JOHN DUMANS VAN VLIET, San Francisco, Calif. Filed Sept. 28, 1925. Serial No. 59,185. 156 Claims. (Cl. 244—25.)

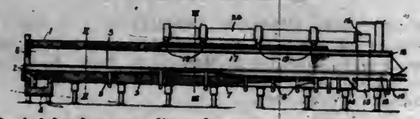
1. The combination of a plurality of power units, a plurality of concentrically mounted rotary shafts, driving means between said power units and said shafts, a

compound differential gearing actuated by and co-operative with said shafts, a power delivery shaft actuated by



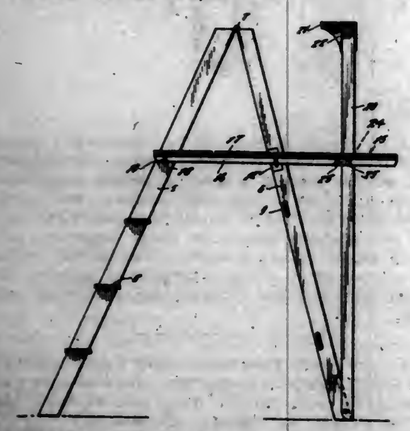
said compound differential gearing, and means associated with said driving means and said rotary shafts for reversing the rotation of said power delivery shaft.

1,754,193. APPARATUS FOR ANNEALING GLASSWARE. THOMAS WARDLEY, Greenford, and HAROLD V. R. M. RENN, West Ealing, England, assignors to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed June 21, 1928, Serial No. 287,201, and in Great Britain June 29, 1927. 10 Claims. (Cl. 49—47.)



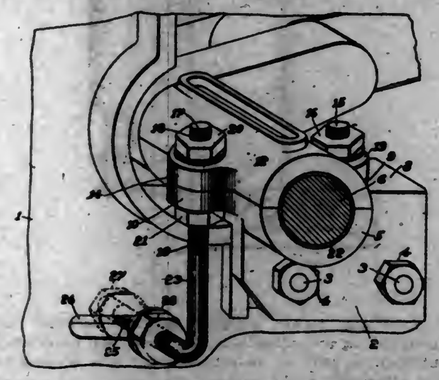
2. A lehr for annealing glassware comprising a tunnel, a flue associated with said tunnel, means for passing a temperature controlling medium through said flue, and means for varying the cross sectional area of said flue along a portion of its length including an inclined plate constituting a portion of one wall of said flue.

1,754,194. STEPLADDER. LOUIS BENINTENDE, Woodbridge, N. J. Filed Nov. 16, 1928. Serial No. 319,966. 3 Claims. (Cl. 228—29.)



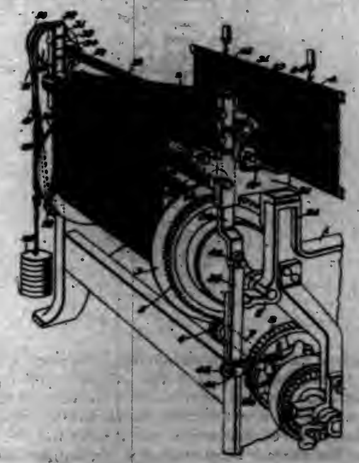
1. A folding ladder of the class described comprising front and rear leg members hingedly connected at their upper ends, a tilting platform pivotally mounted for vertical swinging movement to said rear leg members, said platform having notches formed along its lower edge, a supporting member comprising a pair of legs pivotally connected at the lower ends of said rear leg members, and means carried by the legs of said supporting member and said front leg for receiving the notches of the platform whereby to support the same in a horizontal position.

1,754,195. LOOM CRANK-SHAFT BOX-CAP BEARING. IRA D. BRIDGES, Sanford, N. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 6, 1928. Serial No. 268,024. 4 Claims. (Cl. 308—28.)



1. A lay crank shaft bearing for looms, comprising, in combination, a bracket secured to the loom frame and having a lower bearing for the crank shaft, a box cap, projecting lugs on said bearing and cap, a bolt for securing the box cap at one side of the bearing, an elongated stud bolt adapted to engage said lugs for securing the box cap at the other side of the bearing and having its lower extended end turned laterally, and means for securing the laterally turned end of the elongated stud bolt to the loom frame to cause this bolt to directly support said lugs and resist the strains of lay movement by the crank shaft.

1,754,196. LET-OFF MECHANISM FOR LOOMS. CLARE H. DRAPER, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Nov. 17, 1928. Serial No. 320,142. 19 Claims. (Cl. 139—100.)



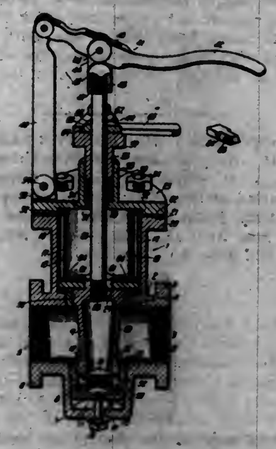
1. In a let-off mechanism for looms, the combination of a warp beam on which the warp is wound, a train of mechanism for positively rotating the warp beam to let-off the warp, a warp tension equaliser supported in a loop of the warp in its travel between the warp beam and front of the loom to maintain a uniform tension on the warp throughout the weaving operation independent of the amount of let-off, and means governed by the movement of the equalizer while its tension on the warp remains constant to vary the operation of said train of mechanism and thus increase or decrease the amount of warp let-off from the warp beam without changing the uniform warp tension.

1,754,197. WEFT CARRIER FOR WEFT-REPLENISHING LOOMS. CLARE H. DRAPER, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 3, 1929. Serial No. 352,291. 3 Claims. (Cl. 242—126.)



1. A weft carrier for weft replenishing looms having a head portion and a tip, and a weft end holder constituted as a curved spring having a side opening of less width than the tip diameter that the holder may be transversely applied about the tip and over the weft end and manually removed endwise of the tip as the weft end is withdrawn for attachment to a fixed part.

1,754,198. VALVE. VIRGIL L. DU BOIS, Tulsa, Okla., assignor to Du-Ra Valve Manufacturing Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Mar. 8, 1929. Serial No. 345,818. 2 Claims. (Cl. 251—60.)



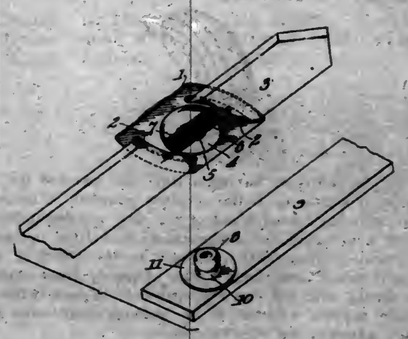
1. A valve of the character described, including a housing having a flow channel and a bore intersecting the channel, a bushing in said bore having ports communicating with the flow channel, raised bearing surfaces on the inner face of the bushing surrounding said ports and extending transversely around the bushing at opposite sides of the ports, a valve plug movable in said bushing, having circular and annular raised surfaces on its outer surface corresponding with the raised surfaces on said bushing to provide sealing contacts between the ports over limited and like areas on the respective parts.

1,754,199. DISPLAY DEVICE. FRANCIS W. GIBSON, West Roxbury, Mass., assignor to The H. D. Beach Company, Coshocton, Ohio, a Corporation of Ohio. Filed May 20, 1927. Serial No. 193,012. 4 Claims. (Cl. 211—148.)



3. In a display device, a plurality of shelves having slots near their ends, said shelves adapted to overlap each other with their slots registering, overhanging flanges on said shelves and reinforcing pieces affixed to the bottom of said shelves and sockets carried by said reinforcing pieces in vertical alignment with said slots, leg members adapted to enter said sockets and registering slots to units said shelves both vertically and horizontally.

1,754,200. SELF-LOCKING SLIDE FASTENER. EDMUND D. JANES, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 2, 1929. Serial No. 351,945. 3 Claims. (Cl. 24—77.)



1. A self-locking slide fastener, comprising a plate slotted for adjustment on a supporting article either end leading, and having a depressed center provided with a median opening to permit the passage therethrough of a cooperating head or stud, said head or stud having a constricted neck, and said plate having other openings leading out of the median opening in opposite directions and of less width than the median opening to be engaged by the neck and the overlying head or stud.

1,754,201. BUTTON. GUSTAV JOHNSON, West Roxbury, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 2, 1929. Serial No. 337,034. 7 Claims. (Cl. 24—96.)



1. A button having a head, a shank beneath said head, a number of attaching prongs extending beyond the said shank for passage through a carrying medium to secure the button to the carrying medium and a laterally extended flange located at a point between where the shank ends and the attaching prongs begin.

1,754,202. PHOTOGRAPHIC-SHUTTER BLADE-ACTUATING MECHANISM. WILLIAM A. RIDDELL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 15, 1929. Serial No. 340,239. 12 Claims. (Cl. 95—63.)



1. In a photographic shutter, the combination with blade mechanism including a blade controlling connection movable in one direction to open the blades and in an opposite direction to close them, of a master member, an actuating link connecting the blade controlling connection and the master member, said actuating link being pivotally attached to the master member and having a lost motion connection with the controlling connection and a latch pivotally mounted on the link for preventing lost motion on predetermined actuations of the link.

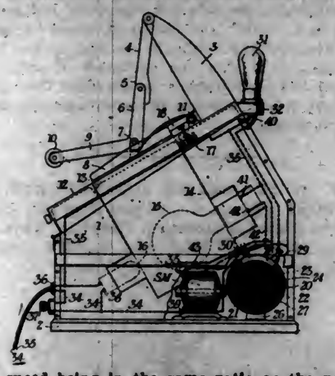
1,754,203. TIME INDICATOR. FRANCIS W. GIBSON, West Roxbury, Mass. Filed May 2, 1929. Serial No. 359,798. 2 Claims. (Cl. 116—133.)



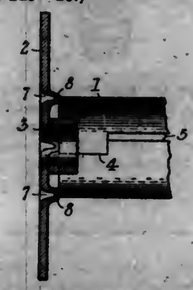
1. A time indicator having a time dial adapted for use on a tire comprising a dial member adapted to be positioned over the curved tread of the tire in offset relation thereto, and means for maintaining said time indicator in vertical position with reference to the tread of said tire, said means comprising a pair of spring arms adapted to be sprung over the tire and spaced from each other by a pintle portion adapted to be engaged with said dial member adjacent the edge thereof.

1,754,204. LIGHT CONTROL FOR PHOTOGRAPHIC-PRINTING MACHINES. NEWTON B. GREEN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 31, 1926. Serial No. 158,840. 6 Claims. (Cl. 95—73.)

5. In a photographic printing machine, the combination with a printing panel, of a platen movably mounted with respect to the panel, an electric printing lamp spaced from the panel being adapted to direct actinic light thereto, said lamp being of a type adapted to give different actinic values upon changes in voltage, a source for supplying electric energy at varying voltages, a motor adapted to vary in speed with changes in line voltage, said variations in speed being in the same ratio as the variations in actinic brightness of the lamp, and means under control of said motor adapted to automatically determine the actinic light values passed by the lamp to the printing panel.

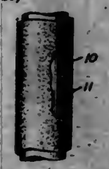


1,754,205. METHOD OF MAKING METAL SPOOLS. JOHN G. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 28, 1926. Serial No. 105,287. 5 Claims. (Cl. 219—10.)



1. The process of welding two metal plates of different thickness of metal comprising forming a plurality of cup shaped projections on the heavier metal plate, the bottom wall of said cup shaped projections being of a substantially less thickness than that of the plate of which it is made, and electrically welding an edge of the lighter metal plate to the thin bottom walls of the cup shaped projections.

1,754,206. COVERED WELD ROD FOR ELECTRIC-ARC WELDING. RICHARD STRESAU, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Original application filed Mar. 12, 1925, Serial No. 14,989. Divided and this application filed Apr. 18, 1929. Serial No. 356,182. 8 Claims. (Cl. 219—8.)



1. A covered weldrod for electric arc welding comprising a metallic rod provided with an adherent covering containing a starchy material as the principal constituent thereof.

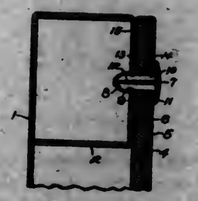
1,754,207. TREATMENT OF RESIDUAL LIQUORS. LINN BRADLEY, Montclair, N. J., and EDWARD P. MCKEEFE, New York, N. Y., assignors to Bradley-McKeefe Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 2, 1921, Serial No. 449,248. Renewed June 26, 1928. 16 Claims. (Cl. 23—49.)

1. The method of treating residual liquor from an alkaline process of treating cellulose bearing materials, which comprises removing organic material therefrom with a reagent containing the sulfate radical and treating the resulting solution, without calcination, to produce a solution containing caustic alkali.

1,754,208. PRODUCTION OF COOKING LIQUOR WHICH CONTAINS SODIUM HYDROXIDE. LINN BRADLEY, Montclair, N. J., and EDWARD P. MCKEEFE, Plattsburgh, N. Y., assignors to Bradley-McKeefe Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 20, 1926. Serial No. 143,014. 41 Claims. (Cl. 23—49.)

8. The method of producing clarified liquor containing caustic soda from a material containing sodium compounds which comprises subjecting such material to a furnacing treatment adapted to form a non-gaseous furnace product including sodium carbonate and carbon and to minimize losses of sodium compounds with the furnace gases, treating the non-gaseous furnace product, with an aqueous liquor to dissolve sodium compounds therefrom, subjecting the resulting solution containing suspended carbon to a two-stage causticizing treatment, first with calcium hydroxide in amount less than the chemical equivalent of the sodium carbonate contained in the solution and then with an amount of calcium hydroxide in excess of the chemical equivalent of sodium carbonate remaining in the solution, separating from the liquor a sludge containing calcium carbonate resulting from the first treatment with calcium hydroxide, before the final treatment, washing this sludge, and using resulting washings in the process.

1,754,209. FASTENER. FRED S. CARR, Newton, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Original application filed Nov. 1, 1924, Serial No. 747,229. Divided and this application filed Oct. 23, 1925, Serial No. 64,845. Renewed Feb. 9, 1929. 3 Claims. (Cl. 24—213.)



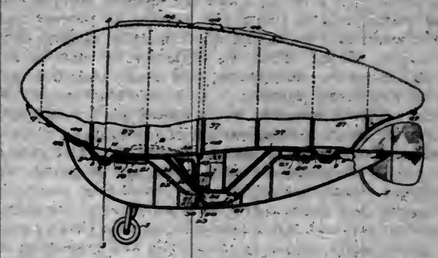
3. A separable fastener stud having a head, a neck and a base, said head and neck being divided by a number of slots to provide a number of yieldable portions between said slots and said yieldable portions being arranged to have the edge of one closer to the edge of another adjacent to the end of the head than at their other ends to permit contact of the said edges adjacent to the head prior to complete contraction of the stud when being engaged with a cooperating socket.

1,754,210. FASTENER. MOSES F. CARR, Lexington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1928. Serial No. 310,659. 7 Claims. (Cl. 24—219.)



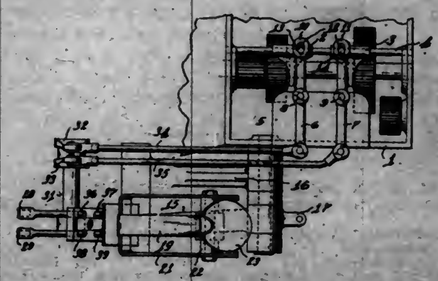
1. A hollow fastener member having a closed head, at one end thereof, a tubular attaching portion extending axially from said head, axially movable means within the fastener member adapted to contact with and expand said attaching portion to secure the fastener member to a support and depressible means provided as a part of the closed head and adapted when depressed to move said axially movable means.

1,754,211. AIRCRAFT. GEORGE W. HARDIN, Greeneville, Tenn. Filed Nov. 7, 1929. Serial No. 405,484. 17 Claims. (Cl. 244—6.)



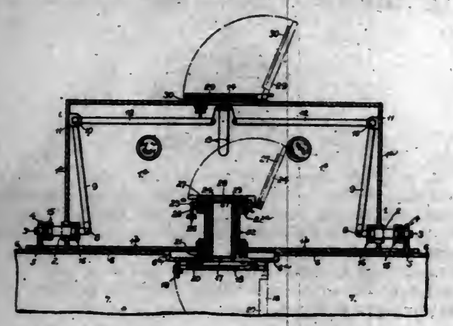
1. An aircraft comprising a lighter-than-air craft and a heavier-than-air craft, a pilot carrying car secured to the lighter-than-air craft, a connection between said crafts, means in the car for breaking said connection, and means for actuating the controls of the heavier-than-air craft disposed within access of the car when the crafts are connected.

1,754,212. AUTOMATIC GEAR SHIFT. WEBSTER G. JONES, Detroit, Mich. Filed Oct. 19, 1928. Serial No. 313,441. 6 Claims. (Cl. 74—58.)



1. In a gear shifting mechanism, a sliding gear transmission enclosed in a casing, a plurality of upwardly extending pins, connecting means from said pins to said gears whereby movement of one of said pins causes one of said gears to be moved to a driving position, and a clevis pivotally mounted upon a foot pedal and adapted to slide longitudinally on its pivot for selectively engaging said pins whereby movement of said foot pedal causes a selected gear to be moved into a driving position.

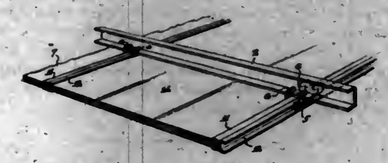
1,754,213. SHIP'S LIFE-SAVING APPARATUS. JOSEPH KELLY, Bootle, England. Filed July 5, 1927, Serial No. 203,609, and in Great Britain July 10, 1926. Renewed Feb. 10, 1930. 2 Claims. (Cl. 114—16.7.)



1. In safety structures for ships, submarines and the like, wherein a buoyant carrier may receive and transport human life from the vessel when submerged, and wherein the buoyant carrier is normally mounted on the deck of the vessel, a buoyant carrier having its opposite side walls each carrying a rod-like member movable endwise within definite limits and adapted to prevent leakage of water into the carrier when in either extreme of its movement; means within the container for shifting said rod-like members concurrently, said means including rock-shafts and levers forming a unit individual to the respective rod-like members, and a connection for said units to provide concurrent movement of the units; individual members carried by the deck to receive the outer ends of the rod-like members when the latter are projected; and hatchway means operatively and detachably connecting the carrier and vessel approximately central of the bottom of the carrier, said latter means including a tubular member permanently carried by the carrier and supporting the carrier hatchway cover, and a ring-member carried by the vessel, with said members complementally threaded for quick detachment, said tubular member forming the passageway between vessel and carrier, with the vessel having a hatchway cover for the vessel end of the tubular member.

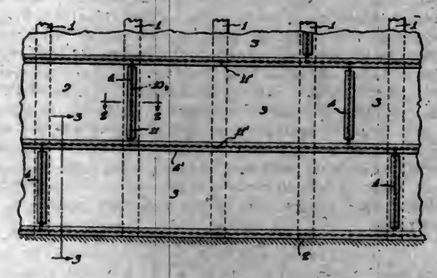
1,754,214. WALL AND CEILING CONSTRUCTION. GORDON R. WALPER, Royal Oak, Mich. Filed Dec. 10, 1928. Serial No. 324,834. 8 Claims. (Cl. 72—46.)

1. A wall and ceiling construction comprising a frame member, a composition board, clips attached to parallel edges of said board and fastened to said frame member for supporting said board, a channel member fitted over one of said edges, another channel member having its back



secured directly to the back of the first channel member, and another board having an edge received in said other channel member.

1,754,215. WALL OR CEILING CONSTRUCTION. GORDON R. WALPER, Royal Oak, Mich. Filed Feb. 11, 1929. Serial No. 338,913. 3 Claims. (Cl. 72—46.)



1. A wall construction comprising studs, composition boards laid adjacent said studs in edge to edge relation, double channel members or H-sections disposed between adjacent boards to receive abutting edges thereof, each such member engaging at least three studs, and securing members driven between the channels of each double channel member into said studs and having a head engaging the exposed sides of both channel members.

CARNEGIE LIBRARY OF ATLANTA

Patents Nos. 1,754,216 to 1,755,163

THE
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Reissues	3—No.	17,642 to No.	17,644, inclusive.
Designs	60—No.	80,933 to No.	80,992, inclusive.
Patents	948—No.	1,754,216 to No.	1,755,163, inclusive.
Total	1,343		

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,581,701, A. H. Taylor, Piezo-electric-crystal control system, decided January 24, 1930, claims 10, 11, 12, and 13.

Pat. 1,604,556, L. F. Howard, Railway-traffic-controlling apparatus, decided February 26, 1930, claims 1, 2, 3, 4, and 7.

Pat. 1,657,453, Wm. H. Boyd, Furnace walls, decided March 11, 1930, claims 1, 2, 3, 4, and 5.

Pat. 1,697,003, H. L. Fink, Terrazzo strip, decided February 28, 1930, claims 1 and 4.

Adjudicated Patents

(D. C. Mass.) Young patent, No. 1,264,740, for frying apparatus, claims 1 and 4 *Held* not infringed. *A. & H. Pitman Mfg. Co.* v. *Pitman*, 37 F. (2d) 582.

(C. C. A. N. Y.) Ingersoll patent, No. 1,839,395, for booster motor for locomotives, claim 32 *Held* not infringed. *Ingersoll* v. *Delaware & H. Co.*, 37 F. (2d) 465.

(C. C. A. Ill.) Anderson patent, No. 1,360,256, for can opener, claims 1 and 2 *Held* infringed. *Simplex Appliance Co.* v. *Star Can Opener Co.*, 37 F. (2d) 491.

(C. C. A. N. Y.) Ingersoll patent, No. 1,383,633, for booster motor for locomotives, claims 16 and 17 *Held* not infringed. *Ingersoll* v. *Delaware & H. Co.*, 37 F. (2d) 465.

(C. C. A. Ill.) Anderson patent, No. 1,528,178, for can opener, claims 1, 2, 6, and 7 *Held* infringed. *Simplex Appliance Co.* v. *Star Can Opener Co.*, 37 F. (2d) 491.

(C. C. A. N. Y.) Ingersoll patent, No. 1,547,155, for booster motor for locomotives, claims 16, 17, and 21 *Held* not infringed. *Ingersoll* v. *Delaware & H. Co.*, 37 F. (2d) 465.

(C. C. A. Pa.) Stevens patent, No. 1,557,376, for hanger structure for meters, *Held* infringed. *Kitson Co.* v. *Lattimer-Stevens Co.*, 37 F. (2d) 562.

(D. C. N. Y.) Hespe patent, No. 1,561,925, for thermometer, *Held* valid and infringed. *Hespe* v. *Corning Glass Works*, 37 F. (2d) 587.

(D. C. N. Y.) Hespe patent, No. 1,561,926, for thermometer tube, *Held* valid and infringed. *Id.*

(D. C. Pa.) Daily patent, No. 1,580,651, for radiator, claims 1, 2, and 3 *Held* valid and infringed. *James B. Clow & Sons.* v. *Automatic Gas-Steam Radiator Co.*, 37 F. (2d) 611.

Interference Notice

U. S. PATENT OFFICE, *Washington, Mar. 19, 1930.*

Washoff Products Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of George A. Hornbecker, 90 Wheeler St., Waterville, Conn., for registration of a trade-mark and trade-mark registered October 28, 1924, No. 190,851, to Washoff Products Company, Lima, Ohio, and a notice of such declaration sent by registered mail to said Washoff Products Company, at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Washoff Products Company, its assigns or legal representatives, shall enter an appearance therein within 20 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business April 4, 1930

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,504; Trade-Mark Division, 1,521. Oldest new case, May 17, 1929; oldest amended, May 10, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	July 26	Aug. 16	1,326
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	July 8	July 13	2,022
231	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	July 10	Oct. 16	1,540
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Sept. 14	Sept. 18	1,214
106*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	July 5	July 8	1,508
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	May 29	May 10	3,268
106	7. JARBOE, C. G., Optics; Photography	June 17	June 17	2,563
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	July 3	Oct. 14	1,021
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Sept. 10	Sept. 16	1,451
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 8	Aug. 5	1,817
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Oct. 10	Oct. 26	986
380	12. PIERCE, P. F., Machine Elements	Sept. 3	Sept. 10	1,472
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 5	July 8	1,634
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	June 26	June 27	1,459
320	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	June 14	June 17	3,038
242*	16. SPENCER, C. J., Telegraphy; Telephony	July 24	Sept. 30	1,261
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 21	July 16	1,660
220	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 5	Aug. 7	1,472
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	June 28	July 5	2,181
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Aug.	Aug. 12	1,611
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	July 18	Oct. 26	876
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 16	Sept. 14	1,663
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	June 11	June 18	1,216
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 5	June 28	1,338
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 14	Aug. 13	1,543
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	June 22	July 25	1,243
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 20	June 29	1,631
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 14	Aug. 7	2,099
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Oct. 12	Oct. 15	758
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	July 6	Dec. 2	1,232
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	July 15	July 18	2,577
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 27	Aug. 22	1,791
152	33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	June 14	June 7	2,645
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	July 20	Aug. 10	1,178
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Sept. 20	Oct. 1	1,858
106	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	July 24	Aug. 8	2,357
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	July 6	July 8	2,144
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	June 15	June 18	2,100
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 11	June 11	2,052
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	June 17	Sept. 24	3,120
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Aug. 2	Aug. 9	1,418
223*	42. CUTTING, H. O., Electric Signaling	Aug. 9	Sept. 4	1,632
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	June 12	June 13	2,335
258	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	June 6	June 7	2,343
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	June 17	July 1	2,473
233	46. WOLCOTT, O. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 2	Aug. 12	1,672
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	June 5	July 5	2,606
212*	48. ROEPKE, O. B., Electricity, General Applications	July 5	July 5	1,390
230	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Sept. 27	Oct. 6	1,187
222	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	July 1	July 5	2,923
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	July 8	July 6	2,367
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Aug. 8	Aug. 19	2,625
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Oct. 23	Oct. 15	1,307
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	June 20	June 29	2,812
102	55. BOWEN, S. T.— {Bread, Pastry, and Confection Making; Cutlery	†Jan. 3	†Jan. 3	444
	{Designs	†Mar. 8	†Mar. 22	367
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	July 4	June 28	2,452
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 28	July 17	1,277
276*	58. DOWELL, E. F., Abrading; Typewriting	May 17	May 29	1,523
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	June 11	June 11	2,992
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	July 8	July 10	2,309
280	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	June 3	June 18	2,622
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	July 8	July 13	2,791
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND— {Trade-Marks	†Feb. 26	†Mar. 21	1,382
	{Labels and Prints	†Mar. 7	†Mar. 21	159

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

IN RE KLEIN

Decided March 17, 1930

1. APPLICATION—CONTINUATION—HOW DETERMINED.
   The question whether a second application is a continuation or a continuation in part of an earlier application of the same applicant is to be determined by the disclosure of the two applications and not merely by the scope of the claims of the later application.
2. SAME—CONTINUATION IN PART.
   Where two applications of the same applicant are copending and a substantial part of the disclosure of the first is disclosed, in connection with other matter, in the second, such second application may properly be designated as a continuation in part of the first.

ON PETITION.

INCINERATOR

Messrs. Dyrenforth, Lee, Chritton & Wiles for the petitioner.

ROBERTSON, *Commissioner:*

This is a petition from the action of the Examiner objecting to the statement in the specification that the present application is "a continuation in part" of applicant's earlier application.

In his letter making this requirement final, the Examiner said:

> A continuation in part requires a disclosure of *all* the subject matter of the earlier application in the later one and this subject matter must be *identical* in both.

The term "continuation" apparently was first used as applying to an application in which the prosecution of an earlier application was continued. Sometimes, however, in filing such second application the applicant decided to add to the disclosure of the earlier application some additional disclosure, and the term "continuation in part" was used to identify the relation between these two applications. This latter term, however, has come to be used in a somewhat different sense—namely, as referring to a second application which discloses subject matter taken from the first, and to that extent could be called a division, and additional subject matter not disclosed in the first.

Whether it might have been better to limit the use of the term to its original meaning, it is not thought proper now to attempt to do so in view of the rather general use in the other sense.

In no case, however, should an application be called "a continuation in part" of an earlier application where the one has a different specific disclosure from the other and they are merely related in the sense that both are species of a broader invention, and hence if broad claims are presented in the latter application they will read on the earlier. It is thought that the question whether a later application is either a continuation or a continuation in part of an earlier one should be determined, as is the question whether a second application is a division of an earlier one, by the disclosure and not by the claims.

In *Ex parte Kruse*, 157 O. G. 208, it was said, after stating that a divisional application has been correctly defined as one which has been carved out of the parent application, that a subsequent application may be a continuation of an older one, "when the two have common subject matter," even though the latter may contain matter which is a departure from that shown and described in the original application. It is such an application that is referred to properly as a continuation in part of the earlier.

It does not appear that any such relation as that referred to in *Ex parte Kruse*, supra, exists in this case. In an amendment filed in response to the Examiner's objection to the term "continuation in part," it was stated that the invention was claimed herein "generically and in a specific embodiment" while the claims in the other application "are limited to another species of the invention."

The Examiner's objection to the use of the term "continuation in part" was therefore properly taken, although it is deemed that his holding that such a term could be used only when all the subject matter of the first was disclosed in the second should not be insisted upon.

It is thought that for the sake of consistency and uniformity the terms "continuation" and "continuation in part" should be used only as above indicated. The applicant, of course, can include, as has been done here, a statement in the specification as to the actual relation between the two cases.

The petition is denied.

Court of Appeals of the District of Columbia

MARTIN *v.* ROBERTSON, COMMISSIONER OF PATENTS

No. 4,583. Decided March 3, 1930

1. APPLICATION—ABANDONMENT—RIGHT OF REVIEW BY COURT.
   "The application to revive was addressed to the sound discretion of the Commissioner of Patents. It was for him to decide whether the delay was 'unavoidable'. In the absence of any showing that his action was capricious or arbitrary, no court has jurisdiction to review his action."
2. SAME—SAME.
   Where it appears, from a bill in equity, under section 4915, Revised Statutes, to have the plaintiff adjudged entitled to a patent, that no action was taken on the application during a period of over 20 years except the filing of a petition to revive about 10 years after the application became abandoned, which was denied, *Held* that on the face of the bill it appears that the delay was not unavoidable.

Mr. James V. Martin pro se.

Mr. T. A. Hostetler for the Commissioner of Patents.

APPEAL from the Supreme Court of the District of Columbia. Affirmed.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices

ROBB, *J.:*

Appeal from a decree in the Supreme Court of the District dismissing, on motion of appellee, appel-

lant's bill filed under section 4915, Revised Statutes, to have appellant adjudged entitled to a patent.

The bill discloses the filing of an application in the Patent Office on December 11, 1896, by Augustus M. Herring, appellant's assignor, for a patent on a power-driven aeroplane; that the application became abandoned January 5, 1900; that no action was taken by the applicant for more than 10 years, or until July 1, 1910, when a petition to revive was filed, which petition was denied August 22, 1910. No action was taken thereafter for almost 14 years, until February 11, 1924.

The application to revive was addressed to the sound discretion of the Commissioner of Patents. It was for him to decide whether the delay was "unavoidable". In the absence of any showing that his action was capricious or arbitrary, no court has jurisdiction to review his action. Moreover, on the face of the bill it appears that the delay was not unavoidable, and as suggested in application of Herring, 358 O. G. 577, 57 App. D. C. 95, 17 F. (2d) 683:

> When this applicant permitted his application to become abandoned, other inventors were engaged in the development of this art, and it is common knowledge, as pointed out by the Commissioner, that within a comparatively short time their efforts were crowned with success.

In these circumstances, prompt action was demanded of this applicant. To permit him now, after his long and inexcusable delay, to revive his abandoned application, might result in very serious injustice to those inventors who persevered to the goal of success.

The decree is affirmed with costs.

U. S. Court of Customs and Patent Appeals

IN RE KOEHRING

No. 2,167. Decided January 27, 1930

[37 F. (2d) 431]

DESIGN—PATENTABILITY—CONCRETE-MIXER TRUCK BODY AND FRAME.

A design for a concrete-mixer truck body and frame *Held* patentable.

GRAHAM, Presiding Judge, and GARRETT, Judge, dissenting.

APPEAL from the Patent Office. Reversed.

Mr. J. F. Robb and *Mr. H. C. Robb* for Koehring.

Mr. T. A. Hostetler for the Commissioner of Patents.

BLAND, *J.*:

This appeal from the decision of the Commissioner of Patents, refusing a patent for a design for a concrete-mixer truck body and frame, presents as its main issue the very interesting, and oftimes troublesome, question as to what articles of manufacture may constitute the subject matter of design patents.

The Commissioner, largely upon the authority of *Ex parte Steck*, 1902 C. D. 9, 98 O. G. 228, held that a machine with movable parts is not an "article of manufacture" within the meaning of the design patent law, the pertinent portion of which reads as follows:

> Any person who has invented any new, original, and ornamental design for an article of manufacture * * * may * * * obtain a patent therefor.

The Commissioner, also as a ground of refusal, under the authority of *Smith* v. *Whitman Saddle Co.*, 1893 C. D. 324, and *Northrup* v. *Adams*, 1877 C. D. 322, held that the design involved in this case was not ornamental and that the same belonged "to the mechanical arts and not the esthetic or *fine arts*." The Commissioner, without discussion, also seems to have agreed with another reason assigned for denial of patent by the Examiner, that the design is not a "unitary design"; that is, that the items of the design are not a unit in appearance.

Before us, the Commissioner further urges that the question as to whether the concrete-mixing machinery involved is a proper subject matter for a design patent need not be decided by this court, since it must be held, under *In re Stimpson*, 369 O. G. 731, 58 App. D. C. 86, 24 F. (2d) 1012, that this character of machine is not "inventively ornamental." We think that we must decide both issues.

The riveting machine in controversy in the Stimpson case was held not to be ornamental because the drawing showed that it was "purely utilitarian and without ornamentation of any kind," and for the further reason that—

> there is nothing about the assembled mechanical device which serves to beautify, embellish, or adorn it. The several parts of the mechanism, whether circular, curved, rounded, or spiral, are assembled into an entirety which is lacking in symmetry, wanting in grace, and destitute of any appeal to the senses or emotions. The design has no human interest other than that aroused by the utilitarian nature of the machine.

We will dispose of this contention by saying that if we were willing to follow the strict letter of the language of this decision, we would not regard it as a bar for holding that the machine in issue here possesses ornamentation, since the appearance and general characteristics of the machines radically differ.

Upon the proposition as to what is "an article of manufacture," within the meaning of the design patent law, there have been many decisions of the Patent Office and the courts, some of which are apparently in conflict, but it is readily observable that it has become the settled law that tools and mechanisms which are patentable because of their utilitarian qualities may also properly be the subject matter for design patents if they possess certain qualities which the law requires.

In our view of the case, the beauty and ornamentation requisite in design patents is not confined to such as may be found in the "esthetic or fine arts." It is not reasonable to presume that Congress, in basing a patent right upon the ornamentation or beauty of a tool or mechanical device, intended that such beauty and ornamentation should be limited to such as is found in paintings, sculpture, and artistic objects, and which excites the esthetic sense of artists alone.

In declaring that by the enactment of the design patent law, Congress expressed a desire to promote more beauty, grace, and ornamentation in things used, observed, and enjoyed by our people, the courts have not omitted on frequent occasions to mention the fact that such ornamentation as was intended was an element in the salability of the article. *Franklin Knitting Mills, Inc.*, v. *Gropper Knitting Mills, Inc.*, 15 F. (2d) 375. Notwithstanding the frequency of judicial declaration concerning "attractiveness to purchasers" and increased "salability," it is also a well-settled principle that a design patent may not be used for the purpose of a trademark. *North British Rubber Co.* v. *Racine Tire Co.*, 271 F. 936.

Appellant's design of a truck body and frame for a concrete mixer shows the frame to be so designed as to place the different elements of the whole machine, including the hood, gas tank, mixer, etc., into a more symmetrical and compact whole than was known in the prior art. Aside from this arrangement, which removes much of the unsightliness from the machine, the covering of the motor is made to resemble, in appearance, an automobile hood, and the angular bars and framework of the same are given a rounded or oval appearance. By the plan of assembly of the more or less rounded hood, round gas tank, and rounded frame corners into a compact and more symmetrical whole, an article, possessing more grace and pleasing appearance than existed in the prior art, has been produced. This effect in the design as a whole is ornamental and inventive.

Since it is clear that Congress meant the design patent law to apply to tools and mechanisms of utilitarian character, it follows, we think, that it had in mind the elimination of much of the unsightly repulsiveness that characterizes many machines and mechanical devices which have a tendency to depress rather than excite the esthetic sense. In this mechanical age, when machines, engines and various kinds of mechanisms are transported on our public highways and streets and moved by their own momentum from place to place, it is certainly not undesirable that some of the unsightliness—and, as frequently occurs, frightfulness—of such contrivances be eliminated, if possible. To conclude that Congress, in the enactment of the design patent law, had such a result in contemplation is not unreasonable, since such a purpose is in entire harmony with the declared aim of the legislature.

The law seems to be well settled that the term "*an* article of manufacture" does not include *every* article of manufacture. The courts have declared that certain articles which are more or less hidden from view when in use are not the proper subject matter for design patents. In *Rowe* v. *Blodgett & Clapp Co.*, 112 F. 61, a horseshoe calk, in *Bradley* v. *Eccles*, 126 F. 945, a washer for a thill coupling, and in *Pashek* v. *Dunlop Tyre & Rubber Co.*, 8 F. (2d) 640, an automobile tire tread, were held not to be patentable under the design patent law. Neither do the purposes of the act embrace articles, the ornamentation of which, owing to their nature, could be a matter of concern to no one. *North British Rubber Co.* v. *Racine Rubber Tire Co.*, supra; *Theodore W. Foster & Bro. Co.* v. *Tilden-Thurber Co.*, 200 F. 54. In the last-cited case, in referring to this class of articles, the court said:

> It is also true now, as before the amendment, that among articles of manufacture there are some incapable of being the subjects of design patents, *for want of reason to suppose that their appearance can ever really matter to anybody.* (Italics ours.)

After careful consideration of all the issues and arguments involved in this case, it would seem to us that the only close question involved in arriving at the correct conclusion, is the applicability of the last-quoted rule. The answer to the query, *is the ornamentation of the truck body and frame at bar a matter of concern to anybody, reasonably within the purview of the act*, points to the proper result to be reached. As is indicated above, we must answer this question in the affirmative.

In the Steck case, supra, the Commissioner held that the frame of a water tower with movable parts, for the use of fire departments, was not an article of manufacture, in so far as the design patent law was concerned, chiefly upon the ground that the movement of the parts changed the appearance of the article and that, while the parts might be the subject matter of a design patent, the mechanism as a whole could not be.

In *Ex parte Adams*, 1898 C. D. 115, 84 O. G. 311, it was again said that the design patent law should not apply to structures having movable parts, and a design patent for a truck side frame was denied upon the theory that the movable parts permitted the presentation of a great variety of forms or designs to the observation.

In *Ex parte Klemm and Schreiber*, 218 O. G. 603 (1915), however, a very elaborate and complex chair with adjustable back, book rests, book shelves, writing desk, etc., was held to be the proper subject matter for a design patent. In that opinion, Newton, First Assistant Commissioner, said:

> There seems to be no good reason for laying down a hard and fast rule that design patents cannot be granted to cover devices with relatively movable parts.

The application was allowed notwithstanding the fact that the movable parts of this complex chair permitted a number of designs as far as appearances went.

In an unpublished decision of the Board of Examiners in Chief, dated January 12, 1921, relative to Design Patent No. 57,381, issued March 15, 1921, (on file in the Patent Office and examined by us) for a tractor, the Board, in discussing the question of design patents for machines or machine parts, used the following language:

> The claim for a design in this case was rejected on the authority of *Ex parte Steck*, C. D. 1902, page 9, holding that a machine cannot be the subject of a design patent.
>
> It is our opinion that no arbitrary rule of this sort has been uniformly recognized by the Office or the courts. (Citing *Ex parte Klemm and Schreiber.*)
>
> * * * * * * *
>
> It is certainly true that it is the practice of the Office to grant designs for frames and other parts of machines and we can see no valid reason why a design patent should not be granted for the general appearance of a machine, disregarding any changes in appearance due to moving parts. It is clear that invention can be and often is displayed in so arranging the parts of a machine, irrespective of its mechanical movements, that they shall have a pleasing and esthetic effect and thus enhance their salability. For example, there are, of course, certain mechanical devices necessary to all locomotives, yet the difference in appearance of an English, German, or French locomotive when compared with an American machine is very marked and not at all due to its moving parts, although some of them may be visible at all times. The general form and proportions of automobiles made by different manufacturers are clearly distinguishable and are recognized as features of inventive design.

In *Chandler Adjustable C. & D. Co.* v. *Heywood Bros. & Wakefield Co.*, 91 F. 163, Judge Brown, in the Circuit Court for the District of Massachusetts,

in holding valid a design patent for a furniture support, said:

> The broad proposition advanced by the defendant, that section 4929 of the Revised Statutes was not intended to apply to structures having movable parts, is not supported by the citation of any judicial decision; and, though certain rulings of the Patent Office (*Ex parte Tallman*, 82 O. G. 337; *Ex parte Adams*, 84 O. G. 311; *Ex parte Smith*, 81 O. G. 969; *Ex parte Brower* (1878) C. D. 151) are presented to support this proposition, I am of the opinion that such a construction of the statute calls for an unwarranted and unreasonable limitation of the terms "manufacture" and "any article of manufacture," and leads to absurd and unjust results. For example, such a construction would defeat claims like those in *Burton* v. *Town of Greenville*, 3 F. 642, and *Britton* v. *Manufacturing Co.*, 61 F. 94.
>
> To the objection of the defendant that the parts have no necessary, single, infallible, and fixed relation to each other, it is sufficient to say that the complainant described and shows in his drawing a single and definite arrangement of parts.

In *R. E. Dietz Co.* v. *Burr & Starkweather Co.*, 243 F. 592, Judge Hough of the Circuit Court of Appeals, Second Circuit, in discussing the applicability of the design patent law to a design for a lantern with movable parts and which performed a mechanical function, said:

> While design patents are not intended to protect a mechanical function, or to secure to the patentee monopoly in any given mechanism or manufacture as such, it is immaterial that the subject of the design may embody a mechanical function, provided that the design per se is pleasing, attractive, novel, useful and the result of invention. *Ashley* v. *Weeks, Etc., Co.*, 220 F. at 901, 136 C. C. A. 465. But it is the design that is patented, not the mechanism dressed in the design.

We have cited authorities somewhat at length on the subject of mechanisms having movable parts and performing mechanical functions, in view of the attitude of the tribunals below in regarding the cases of Steck and Adams, supra, as being controlling of the issues before them. In citing the above authorities, it is not our intention to convey the impression that the rule adopted in the Steck and Adams cases may not have appropriate applicability to certain machines which might be sought to be made the subject matter for the application of design patents, and which, by virtue of their characteristics and multiplicity of movable parts, would present to the observer, in their different shapes, such a multiplicity or confusion of designs as to result in there being no definite design. It is sufficient to say that while the concrete mixer, to which applicant's truck body and frame belong, may have movable parts, there is nothing connected with the mechanism before us, or with the machine as a whole, which produces such a multiplicity of designs as to bring it within the rule.

We disagree with the finding of the Commissioner that the items of the design are not a unit in appearance. We think the design of the truck body and frame is composed of units sufficiently adjusted and related to each other as to present to the observer the design of an article, each part of which has a harmonious relation to all other parts. See *Chandler Adjustable C. & D. Co.* v. *Heywood Bros. & Wakefield Co.*, supra.

Some apprehension has been expressed against holding that Congress intended giving a monopoly in designs for articles of manufacture like the article at bar. We comfort ourselves with the reflection that if the monopoly occasioned by a design patent upon such an article did not tend to further the wishes of the legislature, it is not a matter of disturbing consequence, since the holder of such a monopoly could profit nothing by it.

We conclude, therefore, that the truck body and frame at issue is a proper subject matter for a design patent and that the production of the design involved invention. It follows that the decision of the Commissioner should be and is reversed.

Reversed.

GRAHAM, *P. J.*, and GARRETT, *J.*, dissenting:

We are of the opinion that the several tribunals of the Patent Office in refusing the application for a design patent in the instant case reached a correct decision and accordingly we respectfully dissent from the holding of the majority of our court, reversing same.

The Examiner, the Examiners in Chief, and the Assistant Commissioner, acting for the Commissioner, unanimously agreed in the rejection of the application so that we have that uniformity of decision by the Patent Office tribunals which this court should not reverse unless error clearly appears. We are unable to agree that there was such error.

Broadly speaking, their rejection rests upon the ground that the design disclosed and claimed does not represent patentable subject matter under the provision of section 4929 Revised Statutes, USCA Title 35, section 73 the pertinent portion of which is quoted in the majority opinion.

The statute in its present form was derived from the act of July 8, 1870, chapter 230, as amended by the act of May 9, 1902, chapter 783, and is perhaps somewhat broader than the design law which it superseded but not, we think, broad enough to include articles like that here involved.

The present law has been the subject of numerous interpretations, and under it many design patents have been granted. That there have been decisions somewhat conflicting is not surprising since opinions of individuals differ not only as to what is ornamentation, but as to what may be a proper subject matter for the application of patentable ornamental designs.

We think the principle asserted in *Williams Calk Co.* v. *Kemmerer*, 145 F. 928, 76 C. C. A. 466, affirming 136 F. 210, is sound. The subject matter of the claimed design there involved was a horseshoe calk. Letters Patent issued for it and the article became involved in an infringement suit. The court held the patent invalid because "the subject of it is not one patentable as a design" saying:

> An article to be a proper subject for a design patent must be one which by artistic treatment in form and configuration may be given value from an esthetic point of view.

In *North British Rubber Co.* v. *Racine Rubber Tire Co. of New York*, 271 F. 936, the court said:

> Some articles of manufacture are incapable of being the subjects of design patents for want of reason to suppose that their appearance can ever really matter to anybody.

Other authorities, some of which are referred to in the majority opinion, seem to be to the same purport.

Mention is made in the majority opinion of a design patent upon a chair. It seems to us that there is a manifest difference in the necessary or desirable esthetic qualities of an article of furniture for use in the household and an implement such as a horseshoe calk or a riveting machine or a concrete mixer.

It may be true that a search of the Patent Office files would disclose many design patents for articles of manufacture which to our minds would present as few elements of appeal to the esthetic taste as does the article here involved, but, in so far as we can discern from the record, the modern practice in that Office is to more generally restrict such patents and bring them within a narrower scope, requiring that the subject matter shall be one in which ornamentation adds something to the article beyond mere attractiveness for aiding in its sale, and we approve of this later tendency.

Without challenging the opinion that salability may be a legitimate factor for consideration, we can not bring ourselves to agree that a patent may legally rest upon that as the sole factor, and we see little more than this involved in the mechanism in the instant case.

It would be difficult to lay down any hard and fast rule by which it could be declared affirmatively what articles may properly be the subject of design patent, but we experience little difficulty in arriving at the conclusion that a concrete mixer is not one, thus agreeing with the tribunals of the Patent Office in that regard.

We are unable to believe that it was the intent of Congress to patronize the arts and develop the æsthetic sense of the citizenship by giving the monopoly assured by the patent laws to a design for a concrete mixer. It has escaped our observation if the pulchritude of articles like concrete mixers has ever excited any great public consideration.

In the recent case *In re Eifel*, 389 O. G., 533, this court affirmed the decision of the Commissioner of Patents denying an application for a patent for a design for wrenches. We there said:

> • • • but there is no ornamentation possessing originality and beauty sufficient to justify granting a design patent under the statute, *the purpose of which has oftimes been declared to be to encourage art and decoration which* appeals to the esthetic sense, citing *Smith & Co.* v. *Peck, Stow & Wilcox Co.* 262 F. 415; *Ex parte Parkinson* 1871 C. D. 251. (Italics ours.)

We further said there:

> The rejection of the application by the Commissioner seems to be based upon well-settled principles. Nothing has been shown to us to indicate that the decision was erroneous.

We think the reasoning in that case is applicable to the instant case, although the decision there rested upon the design itself rather than the subject matter.

We pretermit any discussion of other and subsidiary matters that may be involved, such as the patentability of a design for a machine of moving parts, the question of whether a unitary design is disclosed, etc., because we are in dissent upon the issue which we regard as being decisive of the right of the case. We think the decision of the Commissioner should be sustained.

U. S. Court of Customs and Patent Appeals

IN RE LAWSON

No. 2,164. Decided December 30, 1929

[36 F. (2d) 525]

1. PATENTABILITY—ANTICIPATION—PRIOR PATENTS.

"The law is well settled that it was not necessary to build a machine, commercially practice the methods, or produce the article disclosed, in order to constitute it a valid reference anticipating appellant's claims."

2. SAME—TUBULAR KNITTED FABRIC AND METHOD OF, AND MACHINE FOR, FORMING THE SAME.

Claims for a tubular knitted fabric, for the method of, and for a machine for, forming such fabric *Held* unpatentable in view of the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. Irving U. Townsend for Lawson.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from the decision of the Board of Appeals of the Patent Office, affirming the action of the Examiner in rejecting all of appellant's claims, forty-seven in number.

The specification is very lengthy and the drawings are very intricate. The decision of the Board of Appeals is so complete and so well considered, and so completely covers the issues in the case, that we reproduce it in full. It reads as follows:

> This is an appeal from a final rejection of all claims in the application, forty-seven in number. Claims 1, 17 and 21 are reproduced for illustrative purposes:
>
> 1. A tubular knitted fabric characterised by the formation of partial courses united in a seam or seams extending transverse to the direction of said courses, said seam or seams and fabric external thereto being of substantially equal elasticity.
>
> 17. That method of forming a knitted, tubular, fine gauge fabric, which consists in causing a circular series of spring beard needles to function both for rotary work and for reciprocating split work, and in feeding two distinct yarns thereto at relatively widely spaced points by presenting said yarns to the shanks of the needles very close to the same below the points of the beards under the latter and so as to lie against a multiplicity of said shanks before reaching the knitting point and in both directions of reciprocation, but presenting said yarns sufficiently low to effect the imprisonment of the yarns within the needle beards when depressed notwithstanding the opposing strains from the two fabric sections at the said seams, so as to form from said yarns a fabric of partial courses united in two relatively widely spaced seams of knitted loops formed of said yarns, and in causing said needles to co-act to form said tubular fabric including said seams of substantially uniform appearance and elasticity throughout.
>
> 21. A circular split-work hosiery knitting machine having a circular series of independently movable spring beard needles, independent pressers therefor, primary and auxiliary sets of knitting cams, at substantially opposite sides of the machine, means to rotate and to reciprocate said needles and cams relatively to each other, and means cooperating with said knitting cams at both sides of the machine to effect the production on said needles of split work, said means including means substantially at said sets of knitting cams respectively and positioned very close to the needle shanks to present yarn substantially simultaneously safely below the beards of all the needles in partial courses including the suture needles, each yarn being under tension and fed in opposition to the strain of the partial course knitted at the other knitting cam set, but not presented too low to fail to be imprisoned by the needle beards, when pressed, said means also including means to connect said partial courses in suture seams through manipulation of needles as suture needles.
>
> The references relied upon are:
> Wilcomb, 1,131,583, Mar. 9, 1915;
> Bosworth, 1,154,169, Sept. 21, 1915;
> Ames, 1,262,983, Jan. 8, 1918;
> Pigeon, 1,266,044, May 14, 1918;
> Scott, 1,373,358, Mar. 29, 1921;
> Bosworth, 1,416,257, May 16, 1922;
> Jones, 1,450,814, Oct. 3, 1922.
>
> The claims on appeal are directed to various phases in the production of split work hosiery. Thus claims 1, 2, 3 and 6 to 16, inclusive, are directed to a knitted split work article of manufacture, specifically a stocking, claims 4, 5, 17 to 20, 39 and 40 are directed to a method of knitting the article covered by the preceding group

of claims while the remaining claims on appeal cover an apparatus by which the method may be carried out and the claimed article produced.

The basis of the method and apparatus claims and even of some of the article claims, is the employment of a knitting machine having spring beard needles in the production of the article claimed as distinguished from a machine having latch needles. There are certain admitted advantages inherent in spring beard needle machines. These advantages are set forth in the specification of the application on appeal and are discussed in the statement of the Examiner hence no need exists to set them forth here. So far as the prior art relied on by the Examiner on this appeal discloses, with one exception, split foot stockings have heretofore been produced on latch needle machines. The exception is the patent to Wilcomb, No. 1,131,583. This patent is for a circular knitting machine of the spring beard type and on page 12 of the specification, lines 94 to 119, there is described rather generally the production of split foot stockings and the employment of two yarn feeds. An instance of a circular latch needle knitting machine employed in the production of split foot hosiery is the patent to Bosworth, No. 1,154,169. Circular knitting machines of the spring beard type which the Examiner holds might be modified to produce split foot hosiery without invention are the patents to Pigeon, No. 1,266,044, Scott No. 1,373,358 and Bosworth No. 1,416,257. Generally speaking, the modification necessary to enable the machines of the last noted patents to produce split foot hosiery would be the provision of a secondary yarn guide spaced from the primary guide and likewise the provision of secondary needle actuating or controlling cams. These features, i. e. secondary yarn guides and actuating or controlling cams are usual in circular latch needle knitting machines and are shown in the Bosworth Patent No. 1,154,169, noted above. It is the view of the Examiner that with respect to claims which rely primarily on the employment of spring beard needles to impart patentability thereto it does not involve invention either to substitute spring beard needles for latch needles in a latch needle machine or to modify a spring beard needle machine so as to enable it to do split foot work in view of the teachings of patents like Bosworth No. 1,154,169 for a latch needle machine.

On page 14 of appellant's specification reference is made to a difficulty encountered in the development of split foot spring beard needle knitting. Generally speaking, the difficulty has been in the positioning of the infeeding primary and secondary yarns at the proper points due to the opposing strains set up in opposite sections of fabric. It is stated in the specification that owing to the opposing strains the yarn may be positioned too high or too low with respect to the beards of the needles with a consequent dropping of stitches. In many of the appealed claims the feature of feeding the yarn just at the proper height with respect to the beards of the needles and close to the needles is stressed. This difficulty in yarn feeding is recognized in certain of the patents relied on by the Examiner and provision is made for feeding the yarn close to the shanks of the needles. The patents to Scott, Pigeon and Bosworth No. 1,416,257 are particularly relied on by the Examiner in this connection.

Claims 1, 2, 3 and 6 to 16, inclusive, are directed to an article, specified as a knitted fabric and more specifically recited in some of the claims as a split foot stocking. The claims of this group are rejected on the patent to Ames which discloses a knitted fabric, specifically a split foot stocking. Some of the claims of the group under consideration state that the article is a spring needle split foot stocking. In our opinion the reference to spring needles is not a proper limitation in a claim for a knitted fabric or a knitted split foot stocking. An article of manufacture should be defined by its structural characteristics rather than by a recitation of the character of machine in which it is made. So far as the claims of the group under consideration define structure they are met by the Ames patent. The claims including those specifying spring needles attempt to distinguish from the Ames patent by a reference to elasticity of seams and fabric, uniformity of appearance of seams and fabrics, retention of original elasticity of yarn employed and similar limitations. In the view we take of the matter if the limitations in question can be said to partake of any of the characteristics of structural limitations they are the well known characteristics of spring beard knitting. We do not think patentability of the article claims over the Ames reference can be predicated on knitting the Ames stocking on a machine employing spring beard needles.

The method claims are numbered 4, 5, 17 to 20, inclusive, 39 and 40. Claims 4 and 5 are broad claims. The Examiner rejects these claims, properly we think, on the ground that there is nothing inventive in performing suture seam work with spring beard needles, and further on the Wilcomb patent. Appellant criticizes the Wilcomb patent on the ground of inadequate disclosure and in certain affidavits presented points out that there has been no commercial exploitation of the Wilcomb invention particularly with reference to split foot stocking work. We do not think the Wilcomb patent or the specific disclosure referred to above can be disregarded because of lack of commercial exploitation. Taking the disclosure of the patent with respect to the production of split foot stockings at its face value it presents, in our judgment, sufficient basis for the rejection of claims 4 and 5. Touching the rejection of claims 4 and 5 on the ground that there is no invention in doing suture seam work on spring beard needles we are in accord with the Examiner as to this ground of rejection. As broadly as claims 4 and 5 are drawn no special problem is involved and no difficulty is seen in the employment of machines such as are shown in the patents to Pigeon, Scott, or Bosworth No. 1,416,257 for the class of work indicated. It cannot be successfully urged, we think, that the conception of the possibility of knitting split foot stockings on a spring beard needle machine involved invention since the conception or suggestion is found in the Wilcomb patent. Claims 39 and 40 involve the employment of spring beard needles to form split work fabric and the presentation of the yarns close to the needle shanks and so related to the beards of the needles to avoid dropping of stitches. This last noted feature is disclosed in each of the patents to Scott, Bosworth, No. 1,416,257 and Pigeon. So far as the applicability of these patents to claims 39 and 40 is concerned, it seems to be immaterial whether the yarns are fed in the manner indicated because of opposing strains on the fabric sections or for some other reason. It would appear that the result of the special manner of feeding the yarns would be to cause them to be properly taken by the needles. It is our view that it would be uninventive to modify the structures of Pigeon, Scott or Bosworth No. 1,416,257 so as to permit them to do split fabric knitting. The suggested modification is taught by the latch needle machine of the Bosworth Patent No. 1,154,169.

Claims 17 to 20, inclusive, recite more or less in detail the operation of appellant's machine and are met by the above suggested modification of the Pigeon, Scott or Bosworth No. 1,416,257 constructions, except possibly the limitation in claim 18 to the maintenance of the in-feeding yarns from support on the web holders. For this last noted feature the Examiner relies on the Jones patent, No. 1,430,814. Appellant contends that the Jones patent is not available as a reference because of the fact that the instant application is a continuation in part of an earlier application or applications antedating the filing of the application on which the Jones patent was granted. But the Examiner points out in his report on certain affidavits filed in the case that the early application on which appellant relies did not disclose the features of the Jones patent relied on in the rejection of claims like claim 18. It is accordingly held that the Jones patent is available as a reference for features disclosed therein but not disclosed in appellant's early application. Our conclusion with respect to claims 17 to 20 is that if the Pigeon, Scott or Bosworth No. 1,416,257 patent machines were modified to knit split foot stockings they would meet the claims except for the unpatentable feature disclosed in the Jones patent and included in claim 18. As previously noted the Wilcomb patent suggests the desirability of knitting split foot stockings on a spring beard needle machine and the Bosworth latch needle Patent No. 1,154,169 would teach the modification of the structure of the basic references necessary to permit them to function in knitting split fabrics or split foot stockings by means of spring beard needles.

Of the apparatus claims 21 to 28, inclusive, and 41 to 47, inclusive, most of them closely parallel the more limited method claims, e. g. claims 17 to 20, inclusive. Thus most of the apparatus claims rely for patentability on limitations stated in terms of structure followed by recitations of function corresponding generally to the steps of the method claims. It is our view that the apparatus claims must stand or fall with the more limited method claims and the grounds of rejection applied to the method claims apply equally to claims for the apparatus. Generally speaking, it is our view that if it were desired to use the spring beard needle machines of the Pigeon, Scott or Bosworth No. 1,416,257 patents to knit split foot stockings the structural changes necessary to enable the machines to function for the stated purpose could be made without invention in view of the teachings of the latch needle machine of the Bosworth Patent No. 1,154,169. If it be argued that some suggestion as to the desirability of employing spring beard needles for split foot work is necessary, the suggestion is found in the Wilcomb patent. When specific structural features are involved in the claims we accept the application by the Examiner of the references to the claims for such specific features.

The decision of the Examiner is affirmed.

We agree with the conclusions stated by the Board and its reasons therefor. Most of the questions determined by the board of Appeals were questions of fact, and no useful purpose would be served in reviewing in detail the conclusions of the Board upon such questions.

[1, 2] Appellant insists that the patent to Wilcomb, one of the basic references, not only does not disclose the invention claimed by appellant, but that it should not be considered for the following reasons: that the patentee, Wilcomb, who was an employee of the company of which appellant is president, and whose patent had been assigned to it, had never built the machine described in his patent, nor was it ever built by any one; that appellant's method was never practiced by Wilcomb or by any one, nor was appellant's fabric or article ever produced under that patent. The answer to this contention is that the law is well settled that it was not necessary to build a machine, commercially practice the methods, or produce the article disclosed, in order to constitute it a valid reference anticipating appellant's claims. *Pickering* v. *McCullough*, 21 O. G. 73, 104 U. S. 310; *Taskjian* v. *Forderer Cornice Works*, 14 Fed. Rep. (2d) 414.

Another contention of appellant is that the Ames patent, the other basic reference, has been the property of the company of which appellant is president for about ten years, and that if it had disclosed features now claimed by appellant, his company would not have labored and have gone to the great expense that it did in producing the claimed invention of appellant; that said company has expended more than $100,000 in the development of the machine here claimed, and that expenditure would not have been made had the prior patents named in the references, owned by it, disclosed the invention for which appellant now makes claims, and that these facts show that the invention now claimed was not disclosed in such patents.

These considerations may be important in a doubtful case, but of course in themselves they constitute no evidence of patentability. In perfecting a complicated machine much talent may be employed and much money expended in changes and methods of construction involving only mechanical skill, which do not constitute invention.

Appellant also contends that the Board erred in citing the Jones patent, No. 1,430,814, as a reference to the feature of maintenance of the in-feeding yarns from support on the web holders, and calls attention to certain affidavits in the record which, it is claimed, establish that by reason of the original application of appellant, antedating that of Jones, appellant should be held to be the inventor of that feature and not Jones. This contention is answered by the Board in the statement:

> The Examiner points out in his report on certain affidavits filed in the case that the early application on which appellant relies did not disclose the features of the Jones patent relied on in this rejection of claims like claim 18. It is accordingly held that the Jones patent is available as a reference for features disclosed therein, but not disclosed in appellant's early application.

We find no error in this holding of the Board.

The decision of the Board is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

764,916.	(See 1,033,988.)	768,717.	(See 1,033,988.)
781,871.	(See 1,033,988.)	799,829.	(See 1,033,988.)
799,830.	(See 1,033,988.)	807,010.	(See 1,033,988.)
833,506.	(See 1,033,988.)	870,866.	(See 1,033,988.)
900,354.	(See 1,033,988.)		

1,005,963, C. Groat et al., Centrifugal machine, D. C., N. D. Ohio (E. Div.), Doc. 2097, *Tolhurst Machine Works* v. *The Laundryette Mfg. Co.* Dismissed without prejudice Jan. 9, 1930.

1,007,647, C. R. Darnall, Process of purifying water and sewage, D. C., Minn. (4th Div.), Doc. E 996, *Wallace & Tiernan Co., Inc.*, v. *Village of Waverly, Minn.* Dismissed without prejudice Feb. 7, 1930.

1,033,988, H. L. Coburn, Reenforced-concrete dam; 900,354, same, Bridge dam; Re. 12,246, N. F. Ambursen, Dam; 807,010, same, Waste gate for dams; 764,916, W. L. Church, Concrete dam; 799,829, 833,506, same, Dam; 870,866, same, Method of building dams; 799,830, same, Waterworks dam; 781,871, Ambursen & Church, Dam and method of closing or completing same; 768,717, same, Shell dam, D. C., N. D. Ohio (E. Div.), Doc. 1970, *Ambursen Construction Co., Inc.*, v. *The Northern Ohio Traction & Light Co.* Dismissed without prejudice Jan. 9, 1930.

1,067,906, R. E. Pelterie, Device for heating the carbureters for combustion engines, particularly for flying-machine engines, filed Feb. 10, 1930, D. C., S. D. N. Y., Doc. E 52/46, *R. Benault-Pelterie* v. *Wright Aeronautical Corp.*

1,089,405, W. S. Ferguson, Reenforced-concrete dock or pier, filed Feb. 10, 1930, D. C., E. D. Mich. (S. Div.), Doc. 3965, *The Dock & Terminal Engineering Co. et al.* v. *Wabash Ruy. Co.*

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Jan. 28, 1930, D. C., S. D. Calif. (S. Div.), Doc. A–7–H, *Claude Neon Electrical Products, Inc.*, v. *A. W. Harper et al.* (*San Diego Electric Sign Co.*).

1,132,278, W. Jay, Fuel-supply system for explosive engines; 1,635,692, F. G. Schweisthal, Valve snap action, filed Jan. 22, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E Q–104–H, *Stewart-Warner Speedometer Corp. et al.* v. *Sencher Exchange Service, Inc., et al.*

1,185,445, 1,420,775, F. H. Stanwood, Nonslipping tread; 1,436,414; same, Step tread, D. C., N. D. Ohio (E. Div.), Doc. 2111, *Stanwood Equipment Co.* v. *Ohio Rubber & Textile Co.* Dismissed without prejudice Jan. 9, 1930.

1,203,495, W. D. Coolidge, Vacuum tubes; 1,211,091, same, Cathode-ray device; 1,326,029, same, Incandescent-cathode device, D. C., S. D. N. Y., Doc. E 51/246, *Victor X-Ray Corp. et al.* v. *Cooper & Cooper, Inc.* Decree for plaintiff Feb. 8, 1930.

1,211,091. (See 1,203,495.)

1,305,690, H. S. Coyer, Grid-making machine, filed Jan. 24, 1930, D. C., Del., Doc. E 768, *De Forest Co.* v. *Ken-Rad Tube & Lamp Corp.*

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., S. D. Calif. (S. Div.), Doc. E P–26–M, *Alemite Mfg. Corp.* v. *O. L. Scott.* Patents infringed Feb. 5, 1930. Doc. E O–49–M, *The Bassick Mfg. Co.* v. *Curtis & Christensen, Inc.* Decree as above.

1,307,734. (See 1,307,733.) 1,326,029. (See 1,203,495.)

1,350,868. (See Re. 15,529.)

1,360,256, 1,528,178, E. Anderson, Can opener, D. C., N. D. Calif. (San Francisco), Doc. 2882–L, *Star Can Opener Co.* v. *Lorking Specialty Mfg. Co.* Dismissed without prejudice Jan. 31, 1930.

1,399,566, I. Lazarus, Projection screen, filed Jan. 7, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E Q–95–H, *R. R. Micks* v. *J. Brassington et al.* (*Universal Cine Screen Co.*).

1,411,891, J. D. Tucker, Spoke tightener; 1,424,530, Tucker & Tucker, same, appeal filed Jan. 28, 1930, C. C. A., 8th Cir. (St. Louis), Doc. 8818, *A. C. Honeycutt* (*Honeycutt Mfg. Co.*) v. *Tucker Bros. Mfg. Co.* Same, appeal filed Feb. 6, 1930, C. C. A., 8th Cir., Doc. 8826, *Tucker Bros. Mfg. Co.* v. *A. C. Honeycutt* (*Honeycutt Mfg. Co.*)

1,420,775. (See 1,185,445.) 1,424,530. (See 1,411,891.)

1,436,414. (See 1,185,445.)

1,489,940, S. Hiller, Process and apparatus for treating materials; 1,551,152, same, Dryer; 1,551,196, same, Drying apparatus, D. C., Wash. (Seattle), Doc. 523, *Stanley Hiller, Inc.*, v. *F. B. Owen et al.* Dismissed May 7, 1929. Doc. 524, *Stanley Hiller, Inc.*, v. *Wilson Fisheries Co.* Dismissed Nov. 5, 1929.

1,528,178. (See 1,360,256.) 1,551,152. (See 1,489,940.)

1,551,196. (See 1,489,940.)

1,577,606, E. T. Bennington, Crane, C. C. A., 3d Cir., Doc. 4238, *Cleveland Crane & Engineering Co.* v. *Reading Chain & Block Corp.* Decree affirmed Feb. 11, 1930.

1,601,575, L. C. Marshall, Piston packing, D. C., N. D. Ga. (Atlanta), Doc. E 495, *The Simplex Piston Ring Co. of America, Inc.*, v. *Georgia Machinery Co.* Dismissed without prejudice Feb. 8, 1930.

1,627,290, R. H. Lawson, Reverse plating mechanism and process, D. C., Del., Doc. E 709, *Hemphill Co.* v. *Standard Trump Bros. Machine Co.* Patent held valid and infringed Feb. 6, 1930.

1,635,692. (See 1,132,273.) 1,646,580. (See 1,678,499.)

1,657,528. (See 1,678,499.)

1,678,499, 1,646,580, F. K. Eastman, Door check; 1,657,528, same, Door-check strap, D. C., N. D. Ohio (E. Div.), Doc. 2664, *The Concealed Door Check Co.* v. *The Firestone Tire & Rubber Co.* Dismissed (notice Jan. 7, 1930).

1,716,450, R. H. Lawson, Reverse plating mechanism and method, D. C., Del., Doc. E 737, *Hemphill Co.* v. *Standard Trump Bros. Machine Co.* Patent held valid and infringed Feb. 6, 1930.

Re. 15,529, Dick & Wolters, Heat-resisting cabinet and method of making; 1,850,863, R. H. Dick et al., Heat-resisting safe or cabinet, appeal filed Feb. 6, 1930, C. C. A., 2d Cir., Doc. 10796, *Remington Rand, Inc.*, v. *Art Metal Construction Co.*

Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, D. C., W. D. Ohio (E. Div.), Doc. 2580, *Cowan Pottery Studio, Inc.*, v. *W. W. McFarland Sons & Co.* Dismissed without prejudice Feb. 9, 1930.

Des. 72,638. (See Des. 72,596.)

T. M. 171,221, The American Crayon Co., Crayons and pencils; T. M. 178,138, same, Water colors, C. C. A., 8d Cir., Doc. 4024, *The American Crayon Co.* v. *The Prang Co.* Decree reversed Feb. 11, 1930.

T. M. 178,138. (See T. M. 171,221.)

Trade-Marks Canceled

97,193. Certain named toilet preparations. The C. B. Woodworth Sons Co., Rochester, N. Y. Registered May 19, 1914. Canceled March 24, 1930.

148,883. Leather shoes. William Lane, Inc., Brooklyn, N. Y. Registered November 29, 1921. Canceled March 7, 1930.

176,256. Leather shoes. E. P. Reed & Co., Rochester, N. Y. Registered November 20, 1923. Canceled March 7, 1930.

203,914. Razors, razor blades, and razor-blade holders. M & M National Laboratories, Los Angeles, Calif. Registered September 29, 1925. Canceled March 24, 1930.

213,567. Bread. The Wardrop Co., Inc., New York, N. Y. Registered June 1, 1926. Canceled March 24, 1930.

227,418. Hosiery and underwear. Harry D. Liebschutz, doing business as The Primfit Textile Co., Cincinnati, Ohio, assignor to The Primfit Textile Co., Inc., Cincinnati, Ohio. Registered May 8, 1927. Canceled March 24, 1930.

227,914. Rusk. Henry Diederich, Brooklyn and Valley Stream, N. Y. Registered May 17, 1927. Canceled March 7, 1930.

241,258. Ladies' and children's shoes. A. M. Legg Shoe Company, Pontiac, Ill. Registered April 17, 1928. Canceled March 7, 1930.

245,489. Cold and grippe tablets. McKesson & Robbins, Incorporated, Bridgeport, Conn. Registered August 14, 1928. Canceled March 24, 1930.

252,297. Pants, coats, overalls, and jumpers and a combination garment of overalls and jumpers. Samuel Labovitz, doing business as Lee Man Co., Minneapolis, Minn. Registered January 29, 1929. Canceled March 17, 1930.

254,923. Certain named electrical apparatus and supplies. Ernest C. Mignon, Rochester, N. Y. Registered April 2, 1929. Canceled March 24, 1930.

256,001. Magazines. Fawcett Publications, Inc., Robbinsdale, Minn. Registered May 7, 1929. Canceled March 8, 1930.

259,845. Paper. The Reynolds Manufacturing Co., Holyoke, Mass. Registered August 6, 1929. Canceled March 7, 1930.

264,807. Pork loaf. Roberts & Oake, Inc., Chicago, Ill. Registered December 3, 1929. Canceled March 24, 1930.

266,486. Bias trimmings and bias tapes. Webbing and Edging Company, New York, N. Y. Registered January 21, 1930. Canceled March 24, 1930.

Disclaimer

1,733,165.—*Donald B. Perry*, Yonkers, N. Y. SYNCHRONIZING ARRANGEMENT FOR MOVING-PICTURE PROJECTORS. Patent dated October 29, 1929. Disclaimer filed March 28, 1930, by the assignee, *American Telephone and Telegraph Company.*

Hereby enters this disclaimer to the said claims of said Letters Patent which are in the following words—to wit:

"2. A control circuit interconnecting two stations, motor driving mechanism for a motion picture machine at each station, vibrating driving forks for each of said motors, means associated with said control circuit at each of said stations and controlled by the frequency of vibration of the fork at one station for controlling the frequency of vibration of the fork at the other station, starting mechanism for each of said motor driving mechanisms, and means associated with said control circuit at one of said stations for simultaneously operating said starting mechanisms.

"3. A control circuit interconnecting two stations, motor driving mechanism for a motion picture machine at each station, vibrating driving forks for each of said motors, means associated with said control circuit at each of said stations and controlled by the frequency of vibration of the fork at one station for controlling the frequency of vibration of the fork at the other station, clutch mechanisms for each of said motor driving mechanisms, relay means associated with said control circuit at one of said stations tuned to respond to oscillations of a desired frequency, an operating circuit for the clutch mechanism at said station controlled by said relay means, and means at the other of said stations for applying to said control circuit oscillations of a desired frequency to operate said relay means and for operating the clutch mechanism at said last mentioned station."

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 15, 1930

[VOL. 393. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 293,766. AMERICAN STAY COMPANY, East Boston, Mass. Filed Dec. 17, 1929.

PURITAN

For Leather Lacing of General Application in Spools of Long Continuous Lengths of Lacing and Some of the Uses of the Lacing Being the Fabrication and Ornamentation of Shoes, Pocketbooks, Gloves, and Furniture Upholstery, and Weaving It into Cords for Watch Straps and the Like.

Claims use since Apr. 15, 1929.

Ser. No. 296,518. CARL FREUDENBERG, INCORPORATED, Boston, Mass. Filed Feb. 26, 1930.

HANSA

For Leather.

Claims use since Feb. 14, 1930.

Ser. No. 296,969. THE KOPPERS COMPANY, Pittsburgh, Pa. Filed Mar. 7, 1930.

KOPPERS RAINEY-WOOD COKE

No claim is made to the exclusive right to use the word "Coke" except as shown in the accompanying drawing of the trade-mark.

For Coke.

Claims use since Feb. 22, 1930.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 291,073. CHAS. T. WILT COMPANY, Chicago, Ill. Filed Oct. 14, 1929.

The Wiltshire Case

The word "Case" is hereby disclaimed apart from the mark shown on the drawing. Applicant hereby disclaims the word "Wiltshire" apart from the mark as shown in the drawing.

For Suitcases and Traveling Bags Made of Leather and Imitation Leather.

Claims use since July 30, 1929.

Ser. No. 294,253. HOOKLESS FASTENER COMPANY, Meadville, Pa. Filed Dec. 31, 1929.

HOOKLESS

Applicant is the owner of registrations No. 198,412 and No. 263,869.

For Hand Bags, Pocketbooks, Portable Cases for Toilet Articles, Made of Leather or Similar Material, Travelling Bags, Money Belts, Brief Cases, Overnight Bags, Pocket Key Containers Made of Leather or Similar Material, Hatboxes of Leather or Similar Material.

Claims use since Nov. 7, 1929.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 284,606. COURT PAYEN & FALQUE, Marseille, France. Filed May 25, 1929.



All wording appearing on the drawing except the word "L'Abeille" is disclaimed apart from the mark shown.

For Ordinary Soaps, Toilet Soaps, and Perfumed Soaps.

Claims use since Aug. 23, 1871.

Ser. No. 293,765. AMERICAN OIL & DISINFECTANT CORPORATION, New York, N. Y. Filed Dec. 17, 1929.

DRY-O-WET

No claim is made to the exclusive use of the words "Dry" and "Wet" appearing in the drawing except as shown.

For Concentrated Soap for Dry Cleaning and Wet Cleaning.

Claims use since September, 1929.

CLASS 5

Adhesives

Ser. No. 289,976. THE KORKERS COMPANY, Cincinnati, Ohio. Filed Sept. 19, 1929.



For Adhesive Patches for Mending Hosiery and Articles.

Claims use since Aug. 30, 1929.

Ser. No. 295,782. COLUMBIA FASTENER COMPANY, Chicago, Ill. Filed Feb. 8, 1930.



For Mucilage.

Claims use since Dec. 12, 1929.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 285,620. EARL R. BRAGG, doing business as Bragg Plaster Company, Monroe, Mich. Filed June 15, 1929



For a Detergent Paste for Use as an Antiphlogistic Poultice.

Claims use since January, 1929.

Ser. No. 291,967. NELLIE ELLISON, INC., Milwaukee, Wis. Filed Nov. 4, 1929.



In the drawing the lining indicates the color green, and the female figure is a fanciful one. The signature used in the mark is that of the president of the applicant corporation.

For Cleansing Cream, Tissue and Wrinkle Cream, Pore Cream, Foundation Cream, Muscle Oil, Cucumber Astringent and Tonic, Special Astringent, Almond Complexion Lotion, Skin-Toning Astringent, Rouge, Face Powder, a Preparation for Darkening the Skin Adjacent the Eyes, Lips Sticks, After-Shaving Powder.

Claims use since Sept. 24, 1926.

Ser. No. 292,146. FRANK WITT, doing business as Witt's Manufacturing Company, Oakland, Calif. Filed Nov. 7, 1929.



The words "Superior Quality Products" are disclaimed apart from the mark as shown.

For Shaving Lotion Used After Shaving to Cool and Soothe the Skin, Face Creams, Skin Lotions, and Hair Tonics.

Claims use since on or about Apr. 1, 1929.

Ser. No. 292,709. THE AYER COMPANY, Lowell, Mass. Filed Nov. 22, 1929.



For Medicinal Preparation for Use in the Treatment of Coughs Due to Colds.

Claims use since Oct. 14, 1925.

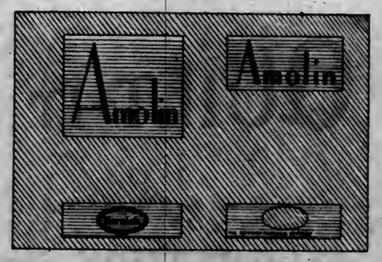
Ser. No. 294,019. IODINE RESEARCH LABORATORIES, INC., Santa Monica, Calif. Filed Dec. 28, 1929.

ID-OL

For Germicides.

Claims use since about Oct. 2, 1929.

Ser. No. 294,278. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed Dec. 31, 1929.



The lining on the drawing indicates the colors blue and green. No claim is made to the outline or representation of the label appearing on the drawing. Applicant is the owner of registered Trade-Mark No. 248,261 for the word "Norwich."

For Deodorant Powder, Toilet Powder, Antiseptic Powder, Disinfectant Powder, Foot Powder, Corn Powder, Anti-chafing Powder, Sunburn Powder, Insect-Bite Powder, Body Powder, Baby Powder, Bath Powder, a Pharmaceutical Product in Powder Form Used for the Relief of Irritations of the Skin, Cuts, Sores, and Chilblains; and After-Shave Powder.

Claims use since Dec. 16, 1929.

Ser. No. 294,344. J. C. ELMS EUROPEAN HAIR CO., INC., doing business as J. C. Elms, St. Louis, Mo. Filed Jan. 3, 1930. Under 10-year proviso.



For Hair Washes, Cleansing Powders for White and Gray Switches, Auburn Hair Tints, Hair Dyes, Hair-Curling Preparations, Circassian Oil Suitable for the Hair, Dandruff Preparations, Brilliantine, Chemical Preparations Suitable for Wave Setting, Astringent Elixirs, Emollient Balms, Chemical Preparations Adapted to Prevent Loss of Hair, Eczema Lotions, Medicated Creams for Eczema, Dandruff, Itching of the Scalp, Piles, Chapped or Skin Blemishes, Germicides, Cascara Sagrada, Face Powders, Make-Up Creams, Cold Creams, Face Rouges and Perfumes and Toilet Waters.

Claims use since 1864.

Ser. No. 294,359. DOROTHY LEWIS, Cleveland, Ohio. Filed Jan. 3, 1930.

LAXINE

For Hairdressing Preparations and a Preparation for the Treatment of the Hair and Scalp.

Claims use since Feb. 1, 1924.

Ser. No. 294,663. THE BETTER WAY PRODUCTS COMPANY, Charleston, S. C. Filed Jan. 11, 1930.

QUIET-IT

For Chemical Compound for Removing Carbon.
Claims use since Oct. 1, 1929.

Ser. No. 294,869. WALTER S. COBLE, Brooklyn, N. Y. Filed Jan. 17, 1930.

Rowéna

For Face Powder, Rouge, Lip Stick, Perfume, Toilet Water, and Cold Cream; Cleansing Cream, Vanishing Cream, Lemon Cream, Skin and Tissue Cream, Almond Cream.
Claims use since Sept. 1, 1927.

Ser. No. 294,884. FRIEDRICH MERZ, doing business as Merz & Co., Frankfort-on-the-Main, Germany. Filed Jan. 17, 1930.

Mucaïn

For Anæsthetic.
Claims use since October, 1928.

Ser. No. 294,946. WALTER M. DAVIS, doing business as Davis Chemical Co., Mason City, Iowa. Filed Jan. 18, 1930.

SMOOTH-EM

For Hand and Face Lotion.
Claims use since Oct. 1, 1929.

Ser. No. 295,066. THE BLOSSER COMPANY, Atlanta, Ga. Filed Jan. 22, 1930.



DOCTOR BLOSSER'S CIGARETTES

The word "Cigarettes" is disclaimed apart from the mark as shown on the drawing. The portrait forming a feature of the mark is that of the deceased Dr. Blosser.
For Cigarettes Used for Soothing the Mucous Membrane, for Treating Minor Simple Nasal and Bronchial Irritations Arising From Colds, and for the Temporary Relief of Paroxysms of Asthma.
Claims use since Nov. 28, 1905.

Ser. No. 295,242. JOHN DANIEL SUGASKI, doing business as Jean Chemical Company, Elyria, Ohio. Filed Jan. 25, 1930.

RAT-FUDE "Gets Me"

No claim is made for the descriptive word "Rat-Fude" in this statement apart from the mark as shown.
For Preparation for the Extermination of Rats, Mice, and Gophers.
Claims use since Dec. 1, 1928.

Ser. No. 295,251. JOHN H. BOSSERMAN, doing business as John H. Bosserman Laboratories, Mankato, Kans. Filed Jan. 27, 1930.

OX-SAL-TONE

For Tonic in the Form of a Liquid Composition to be Intermixed with the Bath Water and Used in the Treatment of Lumbago, Rheumatism, and Other Diseases.
Claims use since Jan. 10, 1929.

Ser. No. 295,302. BENJAMIN B. GOLDENBERG, doing business as Clearskin Laboratories, Inc., New York, N. Y. Filed Jan. 28, 1930.



The wording on the drawing is hereby disclaimed apart from the mark as shown.
For Face Cream.
Claims use since Feb. 5, 1929.

Ser. No. 295,331. MITCHELL DAVIS, doing business as Karay Company, Philadelphia, Pa. Filed Jan. 29, 1930.

KARAY



The portrait appearing on the drawing is that of A. Davis, the applicant's father.
For Medicinal and Pharmaceutical Preparations, Particularly a Medicine in Capsules for Headaches, Colds, Neuralgia, Muscular Aches and Pains, Muscular Lumbago, and Throat Irritations; a Medicine for the Treatment of Indigestion, a Throat Gargle; a Liniment for External Use in the Treatment of Rheumatism, Neuritis, Lame Back, Sciatica, Muscular Aches and Pains, Stiff and Aching Joints, Lumbago, Sprains, and Strains; and a Cough Medicine for the Treatment of Coughs Due to Colds, Bronchitis, Hoarseness, and Loss of Voice.
Claims use since on or about 1920 on indigestion and throat medicine and liniment; since on or about 1925 on medicine in capsules; and since on or about 1928 on cough medicine.

Ser. No. 295,473. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Feb. 1, 1930.

Rosefolia

For Odoriferous and Aromatic Chemicals Useful in the Production of Perfumes and Flavoring Extracts.
Claims use since about Mar. 9, 1929.

Ser. No. 295,474. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Feb. 1, 1930.

Cyclamal

For Odoriferous and Aromatic Chemicals Useful in the Production of Perfumes and Flavoring Extracts.
Claims use since about Mar. 9, 1929.

Ser. No. 295,530. MON-DOCTEUR IMPORTING CO., INC., Middlefield, Conn. Filed Feb. 3, 1930.

Mary Coleman's
Dainty Maid
Mon Docteur

For Medication for Antiseptic Purposes.
Claims use since Dec. 6, 1929.

Ser. No. 295,643. DR. ABRAHAM SAMUEL SHPRITZ, Baltimore, Md. Filed Feb. 5, 1930.

DREAM AIR

For Gas Used as an Anæsthetic in the Extraction of Teeth.
Claims use since May 1, 1928.

Ser. No. 295,708. SAMUEL ZIMMERN, doing business as Non-Soot Manufacturing Company, Mobile, Ala. Filed Feb. 6, 1930.



For Soot-Eliminating Product.
Claims use since about July 15, 1929.

Ser. No. 295,954. MARIANO PICARDI, doing business as Picardi's Pharmacies, Newark, N. J. Filed Feb. 12, 1930.



The words "Trade Mark, Antacid, Digestant," and "Laxative" are disclaimed apart from the mark as shown.
For Digestant, Antacid, and Laxative Compound.
Claims use since September, 1928.

Ser. No. 295,986. GRAYDON L. WALKER, doing business as Wave-Maid Laboratories, Seattle, Wash. Filed Feb. 13, 1930.

WAVE-MAID

For Hair-Dressing Preparation.
Claims use since August, 1929.

Ser. No. 296,059. THE HOWELL COMPANY, INC., New Orleans, La. Filed Feb. 15, 1930.

JAC-N-JIL

For Preparation of Petroleum Jelly for the Hair and Skin, Hair Tonic, Skin Lotion, Rose Water and Glycerine, Toilet Water, Bay Rum, Brilliantine, and Shampoo.
Claims use since Feb. 1, 1929.

Ser. No. 296,069. MACANDREWS & FORBES COMPANY, Camden, N. J. Filed Feb. 15, 1930.



Applicant disclaims the right to the exclusive use of the words "Make Smoking More Enjoyable" and "Purify The Breath" apart from the mark shown.
For Medicinal Preparation for the Treatment of Throat and Stomach and for Purifying the Breath.
Claims use since July 29, 1929.

Ser. No. 296,070. ALBERT E. MALLARD, Detroit, Mich. Filed Feb. 15, 1930.

TAUREX

For Tablets and Capsules Used as a Biliary Stimulant.
Claims use since Feb. 10, 1930.

Ser. No. 296,096. DIAMOND FOOT REMEDIES CO., Chicago, Ill. Filed Feb. 14, 1930.



For Medicated Corn, Bunion, and Callous Plasters.
Claims use since Jan. 1, 1930.

Ser. No. 296,135. ALBERT H. MOORE, doing business as Gold Star Remedy Co., New Orleans, La. Filed Feb. 17, 1930.



For Preparation for Treatment of Coughs, Colds, Bronchitis, and Other Affections of the Throat and Lungs; Skin Diseases; Rheumatism in All Its Forms; Antiseptic Powders; and Vaginal Suppositories; Headache Powders; Liniment for Treatment of Rheumatism, Contracted Muscles, Stiff Joints, Lame Back, Sprains, Stiff Neck, and Neuralgia; Analgesic Baumé; Ointments for Use in Treatment of Skin Diseases; Liver Pills; and Stomach Tonic.
Claims use since Jan. 3 or 4, 1914.

Ser. No. 296,232. MUIR LABORATORIES, Grand Rapids, Mich. Filed Feb. 19, 1930.

WHIFIT

For Medicinal Preparation for the Treatment of Respiratory Diseases.
Claims use since Aug. 12, 1929.

Ser. No. 296,283. CARLOS C. MARROQUIN, San Antonio, Tex. Filed Feb. 20, 1930.



No claim is made to the words "Precioso" and "Precious" apart from the mark shown on the drawing.
For Medicinal Tonic Used in the Treatment of Impurities of the Blood and for Stomach Troubles.
Claims use since Jan. 22, 1930.

Ser. No. 296,524. LUIS HERNANDEZ, doing business as Herco Products Co., Long Island City, N. Y. Filed Feb. 26, 1930.



For Insecticides.
Claims use since about Nov. 15, 1929.

Ser. No. 296,541. MITCHELL CHEMICAL CO., Cleveland, Ohio. Filed Feb. 26, 1930.

MITCHELL'S
6R6

The prescription sign "℞" appearing on the drawing is disclaimed.
For Preparation for Destroying Dandruff, for Stopping Itching of the Scalp, for Allaying Irritation of the Scalp, and for Promoting Growth of Hair.
Claims use since 1926.

Ser. No. 296,579. THE BURGER BROTHERS SUPPLY COMPANY, Denver, Colo. Filed Feb. 27, 1930.

Nu-Rose

For Hair Dressing.
Claims use since about July 1, 1928.

Ser. No. 296,605. RUTH D. MAURER CORPORATION, New York, N. Y. Filed Feb. 27, 1930.

RUDEMAR

For Cosmetics—Namely, Skin-Cleansing Creams and Lotions, Skin Protecting and Preserving Creams and Lotions, Skin-Rejuvenating Creams; Skin Protecting, Preserving, and Nourishing Oils; Skin Lotions, Bleaching Creams and Lotions, Astringent Creams and Lotions, Reducing Compounds and Lotions, Sunburn Lotions, Eye Lotions, a Liquid for Preserving and Beautifying the Hands, Face Powder, Depilatory, Rouge, Lip Sticks, Eyeshadow Salve and Powder, Shampoo Preparations, Pomades, Preparations for Scalp Treatment, Hair Tonic, and Scalp Tonic.
Claims use since October, 1929.

Ser. No. 296,607. MERRELL-HELLMAN LABORATORY, St. Louis, Mo. Filed Feb. 27, 1930.

NAIL TEX

For Toilet Articles and Preparations—Namely, Cuticle Remover, Enamel Remover, Nail White, Nail-Polishing Powder and Paste, Cuticle Oil, and Nail Enamel.
Claims use since Feb. 19, 1930.

Ser. No. 296,828. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa. Filed Mar. 4, 1930.

BENZEDRINE

For Medicinal Preparation More Particularly for Use in Effecting Shrinkage of the Mucosa.
Claims use since Feb. 11, 1930.

Ser. No. 296,996. THOMAS & HOCHWALT LABORATORIES, INC., Dayton, Ohio. Filed Mar. 8, 1930.

Carbo-Solve

For Preparation for Use in the Removal of Carbon Deposits from Internal-Combustion Engines and Similar Motors.
Claims use since Jan. 1, 1916.

CLASS 7

Cordage

Ser. No. 281,763. BOOTT MILLS, Lowell, Mass. Filed Apr. 3, 1929.



For Cotton Twine.
Claims use since Jan. 8, 1929.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 296,236. REISS-PREMIER PIPE CO., West New York, N. J. Filed Feb. 19, 1930.

CHESTERFIELD

For Pipes, Cigar Holders, and Cigarette Holders.
Claims use since December, 1905.

CLASS 11

Inks and Inking Materials

Ser. No. 288,432. THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Aug. 12, 1929.

PANTAGRAPH

For Printing Inks.
Claims use since July, 1922.

Ser. No. 295,869. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Filed Feb. 10, 1930.

STAMPERKRAFT

For Ink for Stamp Pads and Similar Uses.
Claims use since Jan. 5, 1930.

CLASS 12

Construction Materials

Ser. No. 245,078. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a Corporation of Maryland. Filed Mar. 2, 1927.



For Fibre Boards, Plaster Board, Plaster, Prepared Roofing, Roofing Tiles, Composition Shingles and Shingle Slabs, and Roofing Cements.
Claims use since Feb. 24, 1923.

Ser. No. 296,086. THE STOCKADE CORPORATION, Chicago, Ill. Filed Feb. 15, 1930.

SOUNDEX

For Soundproof Building Blocks.
Claims use since Jan. 25, 1930.

CLASS 13

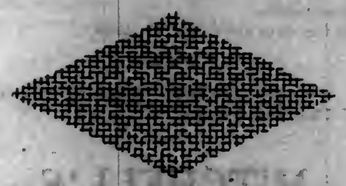
Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 295,385. THE NEW JERSEY WIRE CLOTH CO., Trenton, N. J. Filed Jan. 30, 1930.

IMPERIAL BRONZE

No claim is made to the word "Bronze" except in connection with the mark shown.
For Wire Cloth.
Claims use since 1898.

Ser. No. 295,403. UTILITY MANUFACTURING CO., INC., Baltimore, Md. Filed Jan. 30, 1930.



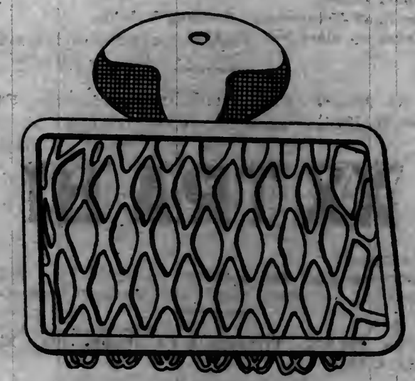
The trade-mark consists of a yellow diamond-shaped figure. The drawing is stippled for yellow.
For Tea and Coffee Strainers, Fruit and Vegetable Strainers, Soup Strainers of Both the Ordinary and Extension Type, Jelly Strainers, Sink Strainers, Plain Ladle, Strainer Ladle, Soap Savers, Soap Dishes, Sponge Baskets, Tumbler Holders, Toothbrush Holders, Tooth-Paste Holders, Shaving-Brush Holders, Shaving-Cream Holders, Shelf Brackets, Robe Hooks, Towel Bars, and Toilet-Paper Holders.
Claims use since Jan. 15, 1930.

Ser. No. 295,433. MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Jan. 31, 1930.

WESTERN

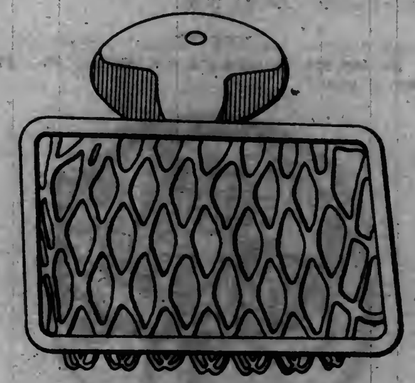
For Woven-Wire Fence.
Claims use since Jan. 24, 1930.

Ser. No. 295,628. MARLBORO WIRE GOODS COMPANY, Marlboro, Mass. Filed Feb. 5, 1930.



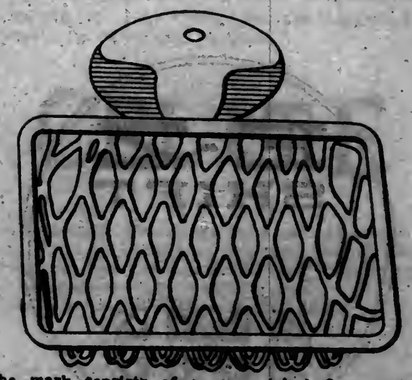
The mark consists of a symmetrical figure colored red, as shown in the accompanying drawing. No claim is made for the representation of the goods per se.
For Soap Dishes, Toothbrush Holders of the Wall Variety, Wall Brackets, Tumbler Holders, Towel Racks, Toilet-Paper Brackets, Bathroom Shelving for Toilet Articles.
Claims use since June 25, 1929.

Ser. No. 295,629. MARLBORO WIRE GOODS COMPANY, Marlboro, Mass. Filed Feb. 5, 1930.



The mark consists of a symmetrical figure colored black, as shown in the accompanying drawing. No claim is made for the representation of the goods per se.
For Soap Dishes, Toothbrush Holders of the Wall Variety, Wall Brackets, Tumbler Holders, Towel Racks, Toilet-Paper Brackets, Bathroom Shelving for Toilet Articles.
Claims use since June 25, 1929.

Ser. No. 295,630. MARLBORO WIRE GOODS COMPANY, Marlboro, Mass. Filed Feb. 5, 1930.



The mark consists of a symmetrical figure colored blue, as shown in the accompanying drawing. No claim is made for the representation of the goods per se.
For Soap Dishes, Toothbrush Holders of the Wall Variety, Wall Brackets, Tumbler Holders, Towel Racks, Toilet-Paper Brackets, Bathroom Shelving for Toilet Articles.
Claims use since June 25, 1929.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 295,479. KEYSTONE STEEL & WIRE COMPANY, Peoria, Ill. Filed Feb. 1, 1930.

Samson

For Spring Wire.
Claims use since on or about Jan. 15, 1930.

CLASS 15

Oils and Greases

Ser. No. 289,251. THE PURE OIL COMPANY, Chicago, Ill. Filed Aug. 31, 1929.



The lining or shading shown in the drawing is employed for purposes of illustration and not to indicate any particular color or colors.
For Illuminating Oils, Motor-Fuel Oils, Lubricating Oils, Lubricating Greases, and Fuel Oils.
Claims use since May 1, 1924.

Ser. No. 294,059. HENRY H. CROSS COMPANY, Chicago, Ill. Filed Dec. 26, 1929.



Applicant disclaims the word "Shift" apart from the mark as shown in the drawing.
For Petroleum Gear Lubricant.
Claims use since Oct. 1, 1929.

CLASS 16

Paints and Painters' Materials

Ser. No. 294,874. JAMES GOOD, INC., Philadelphia, Pa. Filed Jan. 17, 1930.

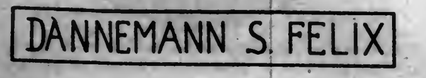


For Hygienic Liquid Wax and a Hygienic Paste Wax for Floors, Furniture, and Woodwork.
Claims use since Dec. 27, 1929.

CLASS 17

Tobacco Products

Ser. No. 293,572. CIA CHARUTOS DANNEMAN, Sao Felix, Brasil. Filed Dec. 12, 1929. Under 10-year proviso.



For Cigars.
Claims use since June, 1873.

Ser. No. 296,355. JOSEPH MIRSKY, doing business as Mirsky Products Co., New York, N. Y. Filed Feb. 21, 1930.



The words "Snuff Tobacco" are disclaimed apart from the mark shown.
For Snuff Tobacco and Smoking Tobacco.
Claims use since Nov. 15, 1929.

Ser. No. 296,581. C. H. CHASE, Cincinnati, Ohio. Filed Feb. 27, 1930.



For Cigars.
Claims use since Nov. 1, 1927.

Ser. No. 296,835. VILLAZON & CO., Tampa, Fla. Filed Mar. 4, 1930.

For Cigars.
Claims use since Jan. 13, 1926.

Ser. No. 296,836. VILLAZON & CO., Tampa, Fla. Filed Mar. 4, 1930.



All of the portraits of the men and women in "Villazon" are merely colned pictures of no individuals.
For Cigars.
Claims use since Dec. 9, 1918.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 279,725. COLLECTION EQUIPMENT COMPANY, New York, N. Y. Filed Feb. 21, 1929.



For Automotive Truck Vehicles.
Claims use since Jan. 15, 1929.

Ser. No. 294,546. STEWART-WARNER CORPORATION, Chicago, Ill. Filed Jan. 8, 1930.

HYDRO-CUSHION

The word "Cushion" is disclaimed as a part of the trade-mark separate and apart from the combination shown.
For Shock Absorber.
Claims use since Dec. 16, 1929.

Ser. No. 295,625. KOEHRING COMPANY, Milwaukee, Wis. Filed Feb. 5, 1930.

DUMPTOR

For Dumping Tractor Trucks and Dumping Motor Trucks.
Claims use since about Dec. 12, 1929.

Ser. No. 296,334. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Feb. 21, 1930.



For Air Brakes and Parts Thereof.
Claims use since 1904.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 278,349. I-T-E CIRCUIT BREAKER COMPANY, Philadelphia, Pa. Filed Jan. 23, 1929.

CEL-I-T-E

For Automatic Electric Switches and Automatic Air Circuit Breakers Adapted to Mounting upon Trucks or Carriages for Insertion into and Removal from Apertures in or Housings Carried by Switchboards.
Claims use since on or about Aug. 28, 1928.

Ser. No. 286,707. THE PEP BOYS-MANNY, MOE & JACK, doing business as Stratford Storage Battery Co., Philadelphia, Pa. Filed July 6, 1929.



The words "Stratford, Super-Service," and "Guaranteed 3 Years" are disclaimed apart from the other features of the mark shown in the drawing.
For Storage Batteries.
Claims use since Jan. 1, 1929.

Ser. No. 288,187. HALL ELECTRIC HEATING COMPANY, INC., Philadelphia, Pa. Filed Aug. 6, 1929.



The trade-mark is formed in red, as indicated by the lines in the drawing. The word "Heating" is disclaimed apart from the mark shown in the drawing.
For Electrical Heat Storage-Water and Building Heaters and Circuit-Control Apparatus Therefor.
Claims use since Aug. 2, 1928.

Ser. No. 288,901. HENRY D'OLIER, Jr., doing business as Lighting Accessories Service, Bridgeport, Conn. Filed Aug. 23, 1929.

HOOKEX

For Electric-Light Wiring Fixtures and Appliances, Consisting of Electric Connectors, Outlet Boxes and Parts Thereof, Ceiling Fixtures, Supports for Ceiling Fixtures, Sockets, Hangers, Shade Holders, Lighting-Fixture Suspension Means, Complete Ceiling-Light Assemblies.
Claims use since July 11, 1929.

Ser. No. 290,777. L. S. BRACH MANUFACTURING CORP., Newark, N. J. Filed Oct. 8, 1929.

TEST-O-LITE

No claim being made to the words "Test, Lite" apart from the mark shown in the drawing.
For Electrical Glow-Indicating Devices for Testing Voltage.
Claims use since latter part of May, 1929.

Ser. No. 291,545. ALL-AMERICAN MOHAWK CORPORATION, Chicago, Ill. Filed Oct. 25, 1929.

LYRIC

For Radio Receiving Sets and Component Parts Thereof, Consisting of Loud-Speakers, Transformers, Fixed and Variable Condensers; and Radio Television Receiving Sets.
Claims use since Jan. 10, 1927.

Ser. No. 294,192. TRIAD MANUFACTURING CO., INC., Pawtucket, R. I. Filed Dec. 28, 1929.

ROYTRON

For Electron Tubes.
Claims use since Dec. 10, 1929.

Ser. No. 294,802. THE ELECTRIC HEATER CORPORATION, Bridgeport, Conn. Filed Jan. 15, 1930.



For Instantaneous Water Heaters, Electric Steam Generators for Heating Small Houses, Supplying Steam for Sterilizers, Removing Paint from Automobiles, Sterilising Milk Cans and Bottles, and Similar Uses, and Electric Foot Warmers.
Claims use since July 1, 1929.

Ser. No. 295,075. MALLEABLE IRON RANGE COMPANY, Beaver Dam, Wis. Filed Jan. 22, 1930.

Monarch

For Electric Ranges, Electric Ovens, Electric Hot Plates, Electric Grill Stoves, Electric Room Heaters of the Wall Type, and Electric Water Heaters.
Claims use since 1922 on electric ranges, electric grill stoves, electric hot plates, and electric ovens; since 1926 on electric room heaters; and since June, 1929, on electric water heaters.

Ser. No. 295,516. HUNTER-WALKER COMPANY, Houston, Tex. Filed Feb. 3, 1930.

JAKE

For Sleeves and Couplings for Electric Wire and Cable Conduits.
Claims use since Oct. 1, 1929.

Ser. No. 296,038. WAPPAT, INCORPORATED, Pittsburgh, Pa. Filed Feb. 14, 1930.

RED STREAK

The lining in the drawing indicates the color red.
For Electric Hand Saws, Electric Hand Planes, Electric Hand Drills, Electric Lock Mortisers, Electric Bench Grinders.
Claims use since Nov. 15, 1929.

Ser. No. 296,150. ROBBINS & MYERS, INC., Springfield, Ohio. Filed Feb. 17, 1930.

Biddy

For Combined Electrically-Operated Drink Mixer and Juice Extractor.
Claims use since Oct. 26, 1929.

Ser. No. 296,405. ELECTRIC SOLDERING IRON CO., INC., New York, N. Y. Filed Feb. 24, 1930.

ESICO

For Electric Soldering Irons.
Claims use since June, 1927.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 294,921. MARY FITCH GREENWOOD, Des Moines, Iowa. Filed Jan. 18, 1930.

POLLY-MATES

For Card Game.
Claims use since Dec. 28, 1929.

Ser. No. 296,629. CURTIS P. BROWN, administrator of the Estate of Howard C. Brown, doing business as The Brown Silk Braid Company, East Hampton, Conn. Filed Feb. 28, 1930.



No claim being made to the exclusive use of the words "Brand, East Hampton, Conn.," apart from the mark as shown in the drawing.
For Fishing Lines.
Claims use since Jan. 1, 1930.

Ser. No. 296,734. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Mar. 3, 1930.

PaKron

For Artificial Bait.
Claims use since on or about Feb. 15, 1930.

Ser. No. 296,900. E. M. BRADY, Eustis, Fla. Filed Mar. 6, 1930.

Country Club
Junior



For Miniature Golf Courses and Score Cards for Use in Connection Therewith.
Claims use since Dec. 4, 1929.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 288,495. THOMAS H. EDELBLUTE, doing business as T. H. Edelblute Company, Pittsburgh, Pa. Filed Aug. 14, 1929.

ANCHOR PULLER-JACK

No claim is made to the words "Puller-Jack" apart from the mark shown.
For Jacks of the Chain and Sprocket Type.
Claims use since May 15, 1929.

Ser. No. 291,237. POYSON, LIMITED, Kingsway, London, England. Filed Oct. 16, 1929.

VELVOS

For Chocolate-Making Machinery.
Claims use since Feb. 25, 1929.

Ser. No. 292,605. THE SUNBEAM MOTOR CAR CO., LTD., Wolverhampton, England. Filed Nov. 18, 1929.

SUNBEAM

Applicant claims ownership of trade-mark registered Aug. 14, 1917, under Certificate No. 118,104.
For Internal-Combustion Engines for Land, Air, and Water Vehicles (Except Motor Cycles and Side Cars) and for Stationary Use.
Claims use since Jan. 1, 1905.

Ser. No. 293,308. AMES SHOVEL AND TOOL COMPANY, North Easton, Mass. Filed Dec. 6, 1929.



The trade-mark consists of an arrowhead located on a shovel at the junction of the blade and the handle socket as shown, no claim being made to the representation of the shovel.
For Shovels.
Claims use since Nov. 1, 1929.

Ser. No. 293,592. THE PECK, STOW & WILCOX COMPANY, Southington, Conn. Filed Dec. 12, 1929.

El Obrero

For Mechanics' Hand Tools—Namely, Chisels, Pruning Shears, Scale Beams, Hammers, Bits, and Pliers.
Claims use since Dec. 20, 1924, on chisels; about Jan. 23, 1926, on bits; Jan. 25, 1926, on pruning shears and scale beams; Apr. 14, 1926, on pliers; Mar. 14, 1927, on hammers.

Ser. No. 294,236. OLIVER FARM EQUIPMENT COMPANY, Chicago, Ill. Filed Dec. 30, 1929.

ROW CROP

The official color lining is used in the drawing to indicate the principal background yellow, a narrow border around each letter red, and a complete narrow border of red around the yellow background.
For Tractors and Parts Therefor.
Claims use since Nov. 8, 1929.

Ser. No. 294,851. THE MIDDLETON-HYDE MANUFACTURING CO. INC., Philadelphia, Pa. Filed Jan. 16, 1930.



No claim being made to the pictorial representation of the two saws and also the corporate name, "The Middleton-Hyde Manufacturing Co. Inc." apart from the mark as shown.
For Flat Stamps—Namely, Saws, Putty Knives, Wall Scrapers, and Planes.
Claims use since Jan. 10, 1930.

Ser. No. 295,510. EDGEWORTH RAZOR BLADE CO., New York, N. Y. Filed Feb. 3, 1930.

PALL MALL

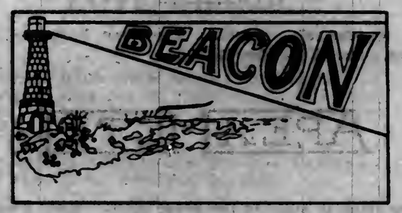
For Razor Blades.
Claims use since Jan. 2, 1930.

Ser. No. 295,674. GEORGE F. HICKOK, San Francisco, Calif. Filed Feb. 6, 1930.



The mark consists of four blue bands on the handles of the pruners adjacent to their connection with the pruning cutters. The lining used in the drawing is the official one for indicating the color blue and is used for that purpose. The representation of the pruning shears shown in the drawing is disclaimed as being no part of the mark.
For Pruning Shears.
Claims use since Jan. 5, 1920.

Ser. No. 296,128. MARATHON RAZOR BLADE CO., INC., Irvington, N. J. Filed Feb. 17, 1930.



For Safety-Razor Blades.
Claims use since about Feb. 10, 1930.

Ser. No. 296,312. AMERICAN CITRUS ENGINES, INC., Marysville, Mich. Filed Feb. 21, 1930.

ENSIGN

For Internal-Combustion Engines and Parts Thereof.
Claims use since Jan. 13, 1930.

Ser. No. 296,829. SPEED-E COMPANY, Oakland, Calif. Filed Mar. 4, 1930.

Speed-e

For Food Shredders.
Claims use since Oct. 1, 1929.

Ser. No. 296,911. EISENSTADT MANUFACTURING COMPANY, St. Louis, Mo. Filed Mar. 6, 1930.

PRISCILLA

For Pocketknives.
Claims use since January, 1917.

Ser. No. 296,936. JAMES W. WOOD, Twin Falls, Idaho. Filed Mar. 6, 1930.

GYROCAPOR

For Honey-Melting Machines.
Claims use since Jan. 24, 1929.

Ser. No. 296,959. WILLIAM DIXON, INCORPORATED, Newark, N. J. Filed Mar. 7, 1930.

INVICTA

For Pliers, Engraving Tools, Files, and Saws.
Claims use since Jan. 15, 1906.

CLASS 24

Laundry Appliances and Machines

Ser. No. 295,480. H. KOHNSTAMM & CO., INC., New York, N. Y. Filed Feb. 1, 1930.



No claim is made herein to the registration of the words "Nets, Wear Best," and "Wash Best," apart from the mark shown in the drawing.
For Laundry Nets.
Claims use since Dec. 1, 1929.

Ser. No. 295,806. NATIONAL WASHBOARD COMPANY, Chicago, Ill. Filed Feb. 8, 1930.

OVAL OAKS

For Washboards.
Claims use since 1912.

Ser. No. 295,984. VORCLONE CORPORATION, Milwaukee, Wis. Filed Feb. 18, 1930.

VORCLONE

"DRY BY AIR"

The words "Dry by Air" are disclaimed apart from the mark as shown.
For Drying Tumblers.
Claims use since Jan. 1, 1928.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 293,560. F. & F. SIMS, London, Ontario, Canada. Filed Dec. 11, 1929.

SAFETYSCOPE

For Mirrors and Optical Devices for Sighting Objects Out of the Line of Direct Vision.
Claims use since June 1, 1929.

Ser. No. 295,899. HALL ELECTRIC HEATING COMPANY INC., Philadelphia, Pa. Filed Feb. 11, 1930.

Hallmark HEATING

The trade-mark is formed in red, as indicated by the lines in the drawing. The word "Heating" is disclaimed apart from the mark shown in the drawing.
For Thermostats.
Claims use since Sept. 4, 1929.

Ser. No. 296,018. MARTIN-COPELAND COMPANY, Providence, R. I. Filed Feb. 14, 1930.

SUN-TAN

For Ophthalmic Mountings.
Claims use since Aug. 19, 1929.

Ser. No. 296,137. NATIONAL RECORDING PUMP CO., Dayton, Ohio. Filed Feb. 17, 1930.

APEX METER

No claim is made to the word "Meter" apart from the mark here shown.
For Self-Measuring Gasoline-Dispensing Apparatus.
Claims use since Feb. 7, 1930.

Ser. No. 296,692. CONTINENTAL OPTICAL COMPANY, Indianapolis, Ind. Filed Mar. 1, 1930.

VISIONALL

For Ophthalmic Lenses.
Claims use since Jan. 28, 1930.

Ser. No. 296,931. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Mar. 6, 1930.

ALACINOMETER

For Urinalysis Glassware.
Claims use since Dec. 31, 1929.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 294,514. GEMEX COMPANY, Newark, N. J. Filed Jan. 8, 1930.

CHARLOTTE

For Watch Bracelets, Watch Straps; Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings; and Belt Buckles and Ear and Hair Ornaments Made of or Plated with Precious Metal.
Claims use since Oct. 18, 1929.

Ser. No. 295,856. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Jan. 30, 1930.

LOVE PARADE

For Finger Rings and Mountings Therefor.
Claims use since Jan. 27, 1930.

Ser. No. 295,858. BENJAMIN & EDWARD J. GROSS CO., INC., New York, N. Y. Filed Jan. 30, 1930.

SYMBOL O'LOVE

For Finger Rings and Mountings Therefor.
Claims use since Jan. 27, 1930.

Ser. No. 295,509. DELTA PHI DELTA, West Lafayette, Ind. Filed Feb. 3, 1930.

ΔΦΔ

For Fraternity Pins, Badges, and Keys All Made of or Plated with Precious Metal.
Claims use since May, 1912.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 282,918. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Apr. 24, 1929. Under section 5b of the act of 1905 as amended in 1920.

COLGATE'S

For Toothbrushes.
Claims use since Mar. 10, 1929.

Ser. No. 296,335. LAWRENCE E. GOELLER, doing business as The Kippy-Kit Company, Circleville, Ohio. Filed Feb. 21, 1930.

PACKY-DOO

For Sets Consisting of Brushes in a Leather Case.
Claims use since Jan. 29, 1930.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 291,999. N. V. KRISTAL-, GLAS- EN AARDEWERKFABRIEKEN DE SPHINX VOORHEEN PETRUS REGOUT & CO., Maastricht, Netherlands. Filed Nov. 4, 1929.

N.V. DE SPHINX
v/h. PETRUS REGOUT & Co
MAASTRICHT

No claim is made to the geographical term "Maastricht" apart from the mark as shown.
For All Ceramic Products in the Most Extensive Sense of Earthenware, Fire Clay, and Vitreous China—Namely, Dinner Sets, Including Flat Plates, Soup Plates; Dishes, Oval; Round Shallow Dishes, Gravy Dish, Cover Dish, Sauce Tureen and Cover, Sauce Stand and Cover, Sauce Ladle and Cover, Sauce Tureen Complete, Boat Stand for Pickle, Soup Tureen and Cover, Soup Stand and Cover, Soup Ladle and Cover; Salad Bowl, Bakers; Breakfast Sets, Including Cups and Saucers, Muffin Plates, Egg Cups, Plates, Covered Muffin Plates, Sugar Bowls, Milk Pitchers, Dishes; Coffee and Tea Sets, Including Teacups and Saucers, Muffin Plates, Plates, Bowl, Cream Pitcher, Coffeepots, Teapots; Toilet Sets, Including Ewers and Basins, Chambers, Covered Soap Dish, Brush Vase, Sponge Dish, Pail; Flowerpots, Slop Buckets, Vases.
Claims use since 1883.

CLASS 32

Furniture and Upholstery

Ser. No. 296,175. DOEHLER FURNITURE CO., INC., New York, N. Y. Filed Feb. 18, 1930.



Applicant hereby disclaims all rights to the exclusive use of the words "Metal Furniture" apart from the mark as shown on the drawings.

For Furniture—Namely, Dressers, Chiffoniers, Chiffodesks, Desks, Dressing Tables, Night Tables, Vanity Tables, and Chairs.

Claims use since Apr. 15, 1928.

Ser. No. 296,703. HELEN W. LEWIS, Cleveland, Ohio. Filed Mar. 1, 1930.

Tak-it-esy

For Bed Tables.

Claims use since Oct. 25, 1929.

CLASS 33

Glassware

Ser. No. 297,001. BIENNENFELD GLASS WORKS, INC., Brooklyn, N. Y. Filed Mar. 8, 1930.



No claim being made to the exclusive use of the words "Rolled Antique," apart from the mark as shown in the drawing.

For Rolled Glass.

Claims use since June 25, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 282,864. LAMPEN- UND METALLWARENFABRIKEN R. DITMAR GEBRÜDER BRÜNNER A. G., Vienna, Austria. Filed Apr. 23, 1929.

DEMON

For Lamps, Lanterns, Cooking and Heating Stoves and Ranges Using Liquid Fuel, as Well as Parts Thereof, Such as Incandescent Mantles and Wicks.

Claims use since October, 1927.

Ser. No. 282,865. LAMPEN- UND METALLWARENFABRIKEN R. DITMAR GEBRÜDER BRÜNNER A. G., Vienna, Austria. Filed Apr. 23, 1929.



For Lamps, Lanterns, Cooking and Heating Stoves and Ranges Using Liquid Fuel, as Well as Parts Thereof, Such as Incandescent Mantles and Wicks.

Claims use since March, 1929.

Ser. No. 289,578. ELECTRO-MATIC MFG. CO. INC., Newark, N. J. Filed Sept. 10, 1929.

Electromatic
"It won't burn out"

No claim being made to the exclusive use of the words "It Won't Burn Out" apart from the mark shown in the drawing.

For Water Heaters, Particularly Electric Water-Supply Heaters.

Claims use since 1926.

Ser. No. 293,331. ISAAC LITNER, doing business as Bright Light Reflector Company, Brooklyn, N. Y. Filed Dec. 6, 1929.

SILV A KING

For Lighting Apparatus—Namely, Porcelain-Enamelled Steel Reflectors.

Claims use since Sept. 27, 1929.

Ser. No. 294,903. WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 17, 1930.

CINCHLOK

For Metal Stovepipe.

Claims use since Nov. 30, 1929.

Ser. No. 295,445. TUTTLE & BAILEY MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 31, 1930.

T&B TRI-SLI

For Dampers for Ventilating Purposes.

Claims use since Aug. 21, 1929.

Ser. No. 296,348. JACKES-EVANS MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 21, 1930.

J-E-NAMEL

For Stovepipe.

Claims use since Jan. 17, 1930.

CLASS 36

Musical Instruments and Supplies

Ser. No. 295,154. J. C. DEAGAN, INC., Chicago, Ill. Filed Jan. 22, 1930.

VIBRA-HARP.

For Percussion Musical Instruments Employing Sounding Bars and of the Type That is Inclusive of Xylophones.

Claims use since Aug. 1, 1928.

CLASS 37

Paper and Stationery

Ser. No. 272,599. COMPAGNIE DU FIBRO-GLUTEOR, Paris, France. Filed Sept. 18, 1928.

GLUTEOR

For Pasteboard for Packing Purposes.

Claims use since Apr. 17, 1928.

Ser. No. 290,111. AMERICAN THRIFT HOLDING COMPANY, Jacksonville, Fla. Filed Sept. 23, 1929.



For Bank Pass Books, Signature Cards, Deposit Checks, and Drafts.

Claims use since June, 1920.

Ser. No. 294,904. AMERICAN PAPER EXPORTS, INC., New York, N. Y. Filed Jan. 18, 1930.



For Ledger, Bond, Millboard, Bristol, Blotting, Cover, Thin Typewriter, Mimeograph, and Tissue Paper; and Papeteries.

Claims use since July 1, 1918.

Ser. No. 294,906. AMERICAN PAPER EXPORTS, INC., New York, N. Y. Filed Jan. 18, 1930.

PACIFIC

For Ledger, Bond, Millboard, Writing, Bristol, Blotting, Printing, Cover, Thin Typewriter, Mimeograph, and Tissue Paper; Correspondence and Mailing Envelopes, and Papeteries.

Claims use since January, 1919.

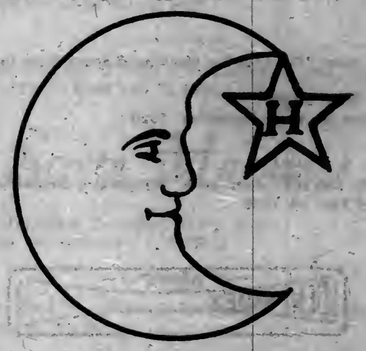
Ser. No. 294,907. AMERICAN PAPER EXPORTS, INC., New York, N. Y. Filed Jan. 18, 1930.

PECO

For Ledger, Bond, Millboard, Writing, Bristol, Blotting, Printing, Cover, Thin Typewriter, Wrapping, Mimeograph, and Tissue Paper; Correspondence and Mailing Envelopes, and Papeteries.

Claims use since January, 1924.

Ser. No. 295,565. J. P. HEILBRONN COMPANY, Manila, P. I., and New York, N. Y. Filed Feb. 4, 1930.



For Bond and Note Paper, Writing Tablets, Mimeograph Paper, Wrapping Paper, Waxed Paper, Tissue Paper, Print Stock, Tablets, Note and Record Books, Ledger Paper, Cardboard, and Manila Paper.

Claims use since 1910.

Ser. No. 295,730. EAGLE PENCIL COMPANY, New York, N. Y. Filed Feb. 7, 1930.

EAGLE ERASALL

For Rubber Erasers.
Claims use since Jan. 6, 1930.

Ser. No. 295,750. OREGON PULP AND PAPER CO., Salem, Oreg. Filed Feb. 7, 1930.

ALAMO

For Bond Paper.
Claims use since on or about Dec. 1, 1929.

Ser. No. 295,751. OREGON PULP AND PAPER CO., Salem, Oreg. Filed Feb. 7, 1930.

TEXACO

For Bond Paper.
Claims use since on or about Dec. 1, 1929.

Ser. No. 295,857. NATIONAL PAPER & TYPE CO., INC., New York, N. Y. Filed Feb. 10, 1930.

HIDALGO BOND

The word "Bond" being disclaimed apart from the mark shown.
For Bond Paper.
Claims use since November, 1929.

Ser. No. 295,968. SAMUEL N. WEISSTEIN, Brooklyn, N. Y. Filed Feb. 12, 1930.

DENT-INDEX

No claim is made to the words "Dent-Index" apart from the mark shown in the drawing.
For Record-Card Holders.
Claims use since Jan. 15, 1930.

Ser. No. 296,337. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

KRAFTEX

In the drawing the shading represents the color black.
For Correspondence and Mailing Envelopes.
Claims use since January, 1928.

Ser. No. 296,338. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

GEMCO

In the drawing the shading represents the color black.
For Correspondence and Mailing Envelopes.
Claims use since January, 1928.

Ser. No. 296,340. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

TUFTEX

In the drawing the shading represents the color black.
For Correspondence and Mailing Envelopes.
Claims use since January, 1928.

CLASS 38

Prints and Publications

Ser. No. 238,525. L. E. WHEELER REID, Hollywood, Calif. Filed Oct. 12, 1926.

MOVIELAND
A JOURNAL OF MOTION PICTURES

No claim being made to the words "A Journal of Motion Pictures."
For Periodical Magazine.
Claims use since Jan. 1, 1926.

Ser. No. 282,718. WESTERN AIR EXPRESS CORPORATION, Los Angeles, Calif. Filed Apr. 20, 1929.

SPEED

For Bimonthly Publication.
Claims use since Dec. 1, 1927.

Ser. No. 290,189. THE MONTE VISTA COMMERCIAL CLUB, Monte Vista, Colo. Filed Sept. 24, 1929.

Ski-Hi Stampede



For Annual Publication.
Claims use since July 1, 1918.

Ser. No. 291,188. CHRISTY WALSH, New York, N. Y. Filed Oct. 17, 1929.

Chairman, All-America Board of Baseball

The word "Chairman" is hereby disclaimed apart from the mark shown.
For Heading for a Series of Articles.
Claims use since Sept. 1, 1929.

Ser. No. 291,858. BANKERS PUBLISHING COMPANY, Milwaukee, Wis. Filed Nov. 1, 1929.

The Wisconsin Banker

For Section of a Periodical.
Claims use since December, 1910.

Ser. No. 294,473. THE COTTON-TEXTILE INSTITUTE, INC., New York, N. Y. Filed Jan. 7, 1930.

FLASHES OF FASHION

For Printed Periodicals.
Claims use since Mar. 9, 1929.

Ser. No. 294,695. STEEL PUBLICATIONS INCORPORATED, Pittsburgh, Pa. Filed Jan. 11, 1930.

Welding

For Periodical.
Claims use since November, 1929.

Ser. No. 295,327. WALLACE M. BYAM, doing business as Western Music and Radio Trades Journal, Los Angeles, Calif. Filed Jan. 29, 1930.

Radio Dealers'
BLUE
BOOK

For Periodicals Appearing Quarterly.
Claims use since December, 1926.

Ser. No. 295,400. SUGAR PUBLICATIONS, INC., New York, N. Y. Filed Jan. 30, 1930.

El Mundo Azucarero
The SUGAR WORLD

For Monthly Publication.
Claims use since 1914.

Ser. No. 295,450. YEAR BOOK PUBLISHING CO., INC., New York, N. Y. Filed Jan. 31, 1930.

MISS 1930

For Monthly Magazine.
Claims use since Dec. 8, 1929.

Ser. No. 295,512. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn. Filed Feb. 3, 1930.

Screen Magazine

For Magazines Published Every Month.
Claims use since July 1, 1929.

Ser. No. 295,564. HARPER'S BAZAR, INC., New York, N. Y. Filed Feb. 4, 1930.

FASHION MERCHANDISING

For Monthly Magazine.
Claims use since Jan. 15, 1930.

Ser. No. 295,594. MURRAY B. KESTIN, New York, N. Y. Filed Feb. 4, 1930.

THE Swimmer

For Monthly Publication.
Claims use since Sept. 1, 1928.

Ser. No. 295,601. BEVERLY HALL CORPORATION, Beverly Hall, Quakertown, Pa. Filed Feb. 5, 1930.

THE INITIATES

For Periodicals.
Claims use since 1906.

Ser. No. 295,607. CLIMAX PUBLISHING CORPORATION, New York, N. Y. Filed Feb. 5, 1930.

WESTERN ADVENTURES

For Periodical at Present Published Quarterly.
Claims use since Dec. 6, 1929.

Ser. No. 295,791. ROBERT D. HEINL, Washington, D. C. Filed Feb. 8, 1930.

DIAL FLASHES

For Periodical News Articles Relating to the Art of Radiobroadcasting, Published in Newspapers, Magazines, and Books.
Claims use since Aug. 15, 1929.

Ser. No. 295,825. RICHARD H. POSTER, Chicago, Ill. Filed Feb. 8, 1930.

THE SAFE FOREMAN

For Periodical Published Monthly.
Claims use since Feb. 1, 1930.

Ser. No. 296,077. THE OFFICIAL AVIATION GUIDE COMPANY, INC., Chicago, Ill. Filed Feb. 15, 1930.

The OFFICIAL AVIATION GUIDE

For Aviation Guide, a Periodical Published Monthly.
Claims use since Jan. 29, 1929.

CLASS 39

Clothing

Ser. No. 274,705. J. E. COBB COMPANY, Charleston, W. Va. Filed Nov. 2, 1928.

Mountain Laurel

For Hosiery.
Claims use since Sept. 6, 1928.

Ser. No. 282,304. LUSTIG'S, Youngstown, Ohio. Filed Apr. 12, 1929.

LUSTIG'S CO-ED HOSIERY

No claim is made to the exclusive use of the word "Hosiery."
For Hosiery.
Claims use since Feb. 1, 1928.

Ser. No. 282,787. LEVY BROTHERS DRY GOODS COMPANY, Houston, Tex. Filed Apr. 22, 1929.

Sijvel

For Wearing Apparel—Namely, Misses' and Junior Coats, Suits, and Dresses, Ladies' and Misses' Negligees, Ladies' Hats, and Boys' Suits.
Claims use since May, 1920.

Ser. No. 285,966. H. L. FRIEDLEN & COMPANY, Chicago, Ill. Filed June 22, 1929.

Securify GOLF TOGS CHICAGO

The words "Golf Togs" and the word "Chicago" are disclaimed apart from the mark as shown.
For Men's Leather Jackets, Leather Coats, Raincoats, and Rain Jackets.
Claims use since Jan. 1, 1917.

Ser. No. 291,884. THE DOLLAR LINE, INC., New York, N. Y. Filed Oct. 22, 1929.

The DOLLAR LINE, Inc. around the world

No claim being made to the exclusive use of any of the wording nor to the price notation apart from the mark as shown in the drawing.
For Children's Dresses.
Claims use since Sept. 10, 1929.

Ser. No. 292,803. ALEXANDER M. GREAN, doing business as Grean Company, New York, N. Y. Filed Nov. 23, 1929.

WRISTKERCHIEF

For Fabric Scarfs.
Claims use since Sept. 7, 1929.

Ser. No. 293,259. WILLIAM LEWIS BOWAN, East Orange, N. J. Filed Dec. 5, 1929.

The Oscar De Priest Hat

Applicant disclaims any right to the exclusive use of the word "Hat." The trade-mark presented consists of the facsimile signature of Oscar De Priest, who has given his consent to the use thereof.
For Felt Hats for Men.
Claims use since Oct. 1, 1928.

Ser. No. 293,901. TANNERS SHOE COMPANY, Boston, Mass. Filed Dec. 19, 1929.

TANNER ARCH

For Shoes Made of Leather, Rubber, Fabric, and Sometimes Combinations of Those Materials or Some of Them.
Claims use since Dec. 2, 1929.

Ser. No. 294,263. I. D. KARPAS & COMPANY, INC., New York, N. Y. Filed Dec. 31, 1929.

"Nobs"

For Wearing Apparel—Namely, Ladies' Coats and Suits.
Claims use since Dec. 20, 1929.

Ser. No. 294,689. HARRY SARFERT, Philadelphia, Pa. Filed Jan. 11, 1930.

U-Saval HOSIERY

The word "Hosiery" is disclaimed apart from the mark shown in the drawing.
For Men's and Ladies' Hosiery.
Claims use since Oct. 21, 1929.

Ser. No. 294,741. RÜMMEL, HIMES & COMPANY, Shippensburg, Pa. Filed Jan. 13, 1930.

Dri Bux

RUMMEL, HIMES & CO.
SHIPPENSBURG, PA.

The lining on the drawing is intended only for shading purposes. Applicant hereby disclaims exclusive use of the geographical term "Shippensburg, Pa." and the name "Rummel, Himes & Co."
For Hunters' Coats.
Claims use since January, 1920.

Ser. No. 294,954. BEST & CO., INC., New York, N. Y. Filed Jan. 20, 1930.

EN ROUTE

For Apparel for Women and Children, Particularly Coats, Dresses, Hats, Shoes Made of Leather, Rubber, Fabric, and/or Any Combination Thereof, Bath Robes, Hosiery, Sweaters, Underwear Made of Knitted, Netted, and Textile Fabrics, Gloves Made of Leather, Rubber, Fabric, and/or Any Combination Thereof, and Pajamas.
Claims use since Aug. 12, 1929.

Ser. No. 295,092. THE STEIN-BLOCH CO., Rochester, N. Y. Filed Jan. 22, 1930.

HIGHGATE TAILORS

No claim is made to the geographic matter "Highgate" apart from the mark shown on the drawing and when used geographically, and no claim is made to the descriptive word "Tailors" apart from the mark as shown on the drawing.
For Coats, Vests, Pants, and Overcoats for Men and Boys.
Claims use since July 1, 1929.

Ser. No. 295,160. HA-BER-SAN MANUFACTURING CORP., New York, N. Y. Filed Jan. 24, 1930.

Wearpledge

For Men's and Boys' Dress and Negligee Shirts and Pajamas.
Claims use since Mar. 1, 1928.

Ser. No. 295,698. STERLING HOSIERY MILLS, Forest City, N. C. Filed Feb. 6, 1930.

KEY

No claim is made to the word "Hosiery" apart from the mark as shown.
For Ladies' Hosiery.
Claims use since July 1, 1927.

Ser. No. 296,082. SONNEBORN BROTHERS, INC., New York, N. Y. Filed Feb. 15, 1930.

BORNLEY

For Boys' and Young Men's Coats, Vests, Trousers, and Overcoats.
Claims use since January, 1930.

Ser. No. 296,306. JULIUS COHEN, Paterson, N. J. Filed Feb. 19, 1930.

THE

PATRIENNE

For Hoover Dresses and Nurses' Uniforms.
Claims use since Nov. 1, 1928.

Ser. No. 296,395. H. W. CARTER & SONS, Lebanon, N. H. Filed Feb. 24, 1930.

Watch the Wear

For Overalls, Pants, Coats, Jackets, and Aprons.
Claims use since about June, 1903.

Ser. No. 296,416. I. J. FOX, INC., New York, N. Y. Filed Feb. 24, 1930.

FOXCRAFT

For Articles for Women, Made of Fur: Coats, Wraps, Neck Pieces, Muffs, Collars, and Cuffs.
Claims use since Apr. 25, 1928.

Ser. No. 296,446. ROBBINS BROS., doing business as Star Dry Goods Co., Worcester, Mass. Filed Feb. 24, 1930.

Startex

For Ladies', Men's, and Children's Hosiery, Underwear, Dress Shirts, Work Shirts, Sweaters.
Claims use since Feb. 1, 1930.

Ser. No. 296,471. L. BAMBERGER & Co., Newark, N. J. Filed Feb. 25, 1930.

L. B.

For Hosiery.
Claims use since November, 1929.

Ser. No. 296,495. THE SHIRTCRAFT COMPANY, INC., New York, N. Y. Filed Feb. 25, 1930.

AIRMAN

For Boys' and Men's Clothing—viz, Blouses and Dress, Negligee, and Work Shirts of Textile Fabric.
Claims use since Feb. 17, 1930.

Ser. No. 296,689. H. W. CARTER & SONS, Lebanon, N. H. Filed Mar. 1, 1930.

CARTER'S Watch Wear

For Overalls, Pants, Coats, Jackets, and Aprons.
Claims use since Feb. 1, 1930.

Ser. No. 296,785. THE SUPERIOR UNDERWEAR COMPANY, Piqua, Ohio. Filed Mar. 3, 1930.

BEACH TANKER

For Swimming Suits.
Claims use since Jan. 25, 1930.

CLASS 42

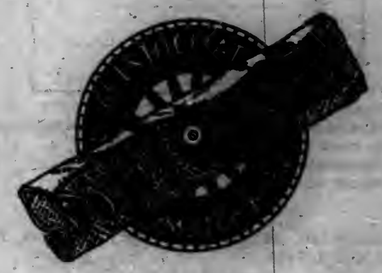
Knitted, Netted, and Textile Fabrics

Ser. No. 279,976. U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Feb. 26, 1929.

KANTMAR

For Cotton, Silk, Wool, and Jute Woven and Netted Fabric Piece Goods.
Claims use since on or about Jan. 2, 1929.

Ser. No. 282,975. CURTIS & VON BERNUTH MFG. CO., New York, N. Y. Filed Apr. 25, 1929.



"The Aristocrat of Motor Robes" and the pictorial representation shown apart from the other characteristics of the mark being hereby disclaimed.
For Lap Robes of a Back and Face of Alpaca Pile Fabric, of a Back of Broadcloth or a Pile Fabric, and a Face of Rayon or Alpaca Pile Fabrics.
Claims use since Apr. 18, 1929.

Ser. No. 294,444. FREDERICK C. J. SCHMIDT, Kansas City, Mo. Filed Jan. 6, 1930.

PRO-TEXA-KID

For Blankets Made of Cotton, Wool, Etc.
Claims use since Dec. 1, 1928.

Ser. No. 296,153. H. S. TAVSHANJIAN, INC., New York, N. Y. Filed Feb. 17, 1930.

"SAROUK SHAH"

The drawing being stippled for shading purposes only.
For Persian Rugs.
Claims use since June 10, 1929.

Ser. No. 296,387. BLOCH FRERES, INC., New York, N. Y. Filed Feb. 24, 1930.



No claim is made to the words "Soie Pure Lavable" apart from the mark as shown.
For Handkerchiefs.
Claims use since Jan. 8, 1930.

Ser. No. 296,716. M. H. ROGERS, INC., New York, N. Y. Filed Mar. 1, 1930.

SHEENSHINE

For Textile Rugs.
Claims use since about Feb. 15, 1930.

Ser. No. 296,951. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 7, 1930.

Kameltop

For Pile Fabrics in the Piece.
Claims use since Feb. 17, 1930.

Ser. No. 296,953. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 7, 1930.

Kamulster

For Pile Fabrics in the Piece.
Claims use since Feb. 25, 1930.

Ser. No. 296,955. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 7, 1930.

Kamelvel

For Pile Fabrics in the Piece.
Claims use since Feb. 17, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 295,194. UNITED DRUG COMPANY, Boston, Mass. Filed Jan. 24, 1930.



The lining on the drawing is for shading purposes only.
For Hot-Water Bottles.
Claims use since Sept. 4, 1929.

Ser. No. 295,531. MON DOCTEUR IMPORTING CO., INC., Middlefield, Conn. Filed Feb. 3, 1930.

Mary Coleman's
Dainty Maid
Mon Docteur

For Vaginal Syringes and Douche Bags.
Claims use since Dec. 6, 1929.

Ser. No. 295,664. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Toothpicks.
Claims use since Oct. 26, 1926.

Ser. No. 295,831. BROWN DURRELL CO., Boston, Mass. Filed Feb. 10, 1930.

VEL-PAK

For Sanitary Napkins.
Claims use since on or about Apr. 1, 1926.

Ser. No. 296,075. MILLER WHOLESALE DRUG COMPANY, Cleveland, Ohio. Filed Feb. 15, 1930.

Ephrol

For Atomizers and Nebulizers and Bulb Operated Sprayers Used for Atomizing and Spraying Medicinal Liquids.
Claims use since March, 1928.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 293,088. BEVERAGE SALES, INC., New York, N. Y. Filed Nov. 30, 1929.



No claim is made to the exclusive right to the use of the representation of pineapples apart from the mark shown in the drawing.
For Nonalcoholic, Noncereal, and Maltless Pineapple-Juice Beverages and Ingredients for the Same.
Claims use since Nov. 25, 1929.

Ser. No. 296,690. THE CLEVELAND FRUIT JUICE COMPANY, Cleveland, Ohio. Filed Mar. 1, 1930.

SNOW BOY

For Fruit Syrup for Nonalcoholic Beverages.
Claims use since about Feb. 1, 1930.

Ser. No. 296,695. DICKSON CITY BOTTLING WORKS, Dickson City, Pa. Filed Mar. 1, 1930.



For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages, and Syrups and Extracts Used in Making Same.
Claims use since on or about July 1, 1926.

Ser. No. 296,805. JOHN L. FRANKLIN, doing business as The Cordova Company, Atlanta, Ga. Filed Mar. 4, 1930.



For Ginger Ale.
Claims use since Dec. 17, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 276,573. S. H. LEVIN'S SONS, Philadelphia, Pa. Filed Dec. 11, 1928.



The words "Choice Table, Brand," and "Tomatoes" are hereby disclaimed apart from the features of the mark shown. Applicant hereby disclaims the exclusive right to the use of the representation of a tomato apart from the other features of the mark shown.
For Canned Tomatoes.
Claims use since 1883.

Ser. No. 285,609. WILSON W. VAUGHAN, doing business as Star & City Bakeries, Mineral Wells, Tex. Filed June 14, 1929.



"Health" and "Bread" are disclaimed apart from the other features of the mark shown in the drawings. Applicant is the owner of registered trade-mark No. 222,224.
For Bread.
Claims use since June 1, 1929.

Ser. No. 289,803. ANNA STEIN, New York, N. Y. Filed Sept. 14, 1929.



The portrait appearing on the trade-mark is the applicant's true picture.
For Horse-Radish.
Claims use since Nov. 1, 1918.

Ser. No. 293,275. HYDROX ICE CREAM COMPANY, INC., Long Island City, N. Y. Filed Dec. 5, 1929.



For Ice Cream.
Claims use since Jan. 1, 1929.

Ser. No. 293,276. HYDROX ICE CREAM COMPANY, INC., Long Island City, N. Y. Filed Dec. 5, 1929.

The BRIDGE-BOX

No claim is made to the exclusive use of the word "Box" apart from the rest of the features shown in the drawing.
For Ice Cream.
Claims use since Jan. 1, 1929.

Ser. No. 293,662. FLATBUSH GUM COMPANY, INC., Brooklyn, N. Y. Filed Dec. 14, 1929.

YANKEE DOODLE

For Stick Chewing Gum.
Claims use since Nov. 29, 1929.

Ser. No. 295,024. C. FRED FEARON, Manchester, N. H. Filed Jan. 21, 1930.

Kream Krisp

The word "Kream" is disclaimed apart from the other features of the mark as shown in the drawings.
For Ice-Cream Confection.
Claims use since Jan. 8, 1930.

Ser. No. 295,204. BECKER BROS. & GREBEL, Chicago, Ill. Filed Jan. 25, 1930.

World's Fair
BARLEY MALT SYRUP

The words "Barley Malt Syrup" are disclaimed apart from the features of the mark shown in the drawing.
For Malt Marrow Syrup.
Claims use since August, 1929.

Ser. No. 295,222. INLAND MILLING COMPANY, Des Moines, Iowa. Filed Jan. 25, 1930.



For Wheat Flour.
Claims use since Sept. 12, 1928.

Ser. No. 295,269. JOHN F. JELKE COMPANY, Hillsboro, Wis. Filed Jan. 27, 1930.

VALUE

For Evaporated Milk.
Claims use since about September, 1914.

Ser. No. 295,313. E. A. BOYCE CO., INC., Donna, Tex. Filed Jan. 28, 1930.



The color lines on the drawing are disclaimed.
For Fresh Vegetables.
Claims use since Jan. 1, 1929.

Ser. No. 295,470. DELRAY CORPORATION, San Francisco, Calif. Filed Feb. 1, 1930.

DEL RAY

For Italian Dinner (Consisting of Macaroni, Mushroom Sauce, and Grated Cheese), and Chicken Ravioli, Mushroom Sauce, Barbecue Sauce, and Grated Cheese.
Claims use since June 23, 1928.

Ser. No. 295,532. MULLER BAKERIES, INCORPORATED, doing business as Battle Creek Wafer & Specialty Co., Grand Rapids, Mich. Filed Feb. 3, 1930.

VITA CRISPS

For Sugar Wafers.
Claims use since Dec. 17, 1929.

Ser. No. 295,581. STANDARD PRODUCE CO., Brawley, Calif. Filed Feb. 4, 1930.

ONLY

For Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Vegetables, Fresh Cantaloupes, Fresh Watermelons, Fresh Honeydew Melons.
Claims use since Dec. 8, 1929.

Ser. No. 295,688. NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed Feb. 6, 1930.

NIBS

For Licorice Candy in Semicylindrical Form.
Claims use since about May, 1928.

Ser. No. 295,843. GREENWOOD CREAMERY COMPANY, Greenwood, S. C. Filed Feb. 10, 1930.

DIXIMAID

For Dairy Products—Namely, Milk, Buttermilk, Cream, Flavored Milk, Butter, and Ice Cream.
Claims use since Jan. 17, 1917, on ice cream; since Jan. 1, 1922, on butter; and since Nov. 1, 1928, on milk and cream.

Ser. No. 295,983. THE STANDARD BISCUIT COMPANY, Des Moines, Iowa. Filed Feb. 18, 1930.

SO-TAST-EE

For Cake Flour.
Claims use since Jan. 28, 1930.

Ser. No. 295,987. JENNY WREN COMPANY, Lawrence, Kans. Filed Feb. 13, 1930.

Neurofam

For Self-Rising Flour—Namely, a Cake Flour, Biscuit Flour, Pancake Flour, Pie-Crust Flour, and a Flour for all "Quick Breads" and Pastries.
Claims use since Dec. 10, 1929.

Ser. No. 296,108. DALLAS S. CROPPER, Cambridge, Ohio. Filed Feb. 17, 1930.



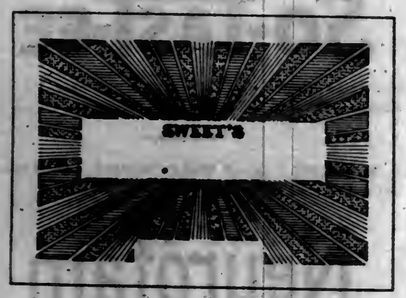
The words "Good Bread" are disclaimed apart from the other features of the mark shown in the drawing.
For Bread.
Claims use since Jan. 1, 1930.

Ser. No. 296,437. MILTON PAUL, doing business as International Extract Co., New York, N. Y. Filed Feb. 24, 1930.

CARAMEX

For Food-Flavoring Extracts and Concentrates.
Claims use since Feb. 1, 1928.

Ser. No. 296,615. SWEET CANDY COMPANY, Salt Lake City, Utah. Filed Feb. 27, 1930.



The drawing is lined for blue and yellow.
For Candy.
Claims use since Apr. 29, 1929.

Ser. No. 296,670. RUNKEL BROTHERS, INC., New York, N. Y. Filed Feb. 28, 1930.



For Chocolate.
Claims use since on or about May 6, 1902.

Ser. No. 296,697. FOUR ROSES MALT EXTRACT COMPANY, doing business as Hell-O World Malt Extract Co., Cincinnati, Ohio. Filed Mar. 1, 1930.

HELLO WORLD

For Malt Syrups and Extracts.
Claims use since Feb. 17, 1930.

Ser. No. 296,739. GENTILE BROS. COMPANY, Cincinnati, Ohio, and Orlando, Fla. Filed Mar. 3, 1930.

TREE GOLD

For Fresh Citrus Fruits.
Claims use since September, 1928.

Ser. No. 296,782. GEORGE ROSS STEWART, doing business as Wagstaff Coffee Company, Detroit, Mich. Filed Mar. 3, 1930.

DETROITER

For Coffee.
Claims use since 1887.

Ser. No. 296,783. GEORGE ROSS STEWART, doing business as Wagstaff Coffee Company, Detroit, Mich. Filed Mar. 3, 1930.

Frances

For Coffee.
Claims use since June 1, 1929.

Ser. No. 296,995. WINEBRENER & CRAMER, INC., Frederick, Md. Filed Mar. 7, 1930.

STRAVOR

For Coffee.
Claims use since Jan. 27, 1930.

CLASS 48

Malt Beverages and Liquors

Ser. No. 295,155. JAMES FREDERICK, doing business as Black Eagle Brewing Co., Chicago, Ill. Filed Jan. 24, 1930.

Germania Club

For Nonintoxicating Cereal Malt Beverage Containing Less Than One-Half of One Per Cent of Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Jan. 10, 1930.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 296,381. TEXTILE IMPORT CORPORATION, New York, N. Y. Filed Feb. 22, 1930.

BATHTEX

For Rugs or Floor Coverings of Rubber.
Claims use since Feb. 5, 1930.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 15, 1930

269,577. MEN'S SUITS, SPRING COATS, AND OVERCOATS. Zucker Clothing Co., Brooklyn, N. Y.
Filed June 5, 1929. Serial No. 285,131. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,578. MALT SYRUPS. Bristol Gustafson Brokerage Co., Minneapolis, Minn.
Filed June 17, 1929. Serial No. 285,656. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,579. CEREAL AND CEREAL PRODUCTS INTENDED FOR USE AS FOOD OR FEEDS—NAMELY, LAYING MASH AND SCRATCH FEED. Always-A-Head Mills, Inc., doing business as Southern Roller Mills, East St. Louis, Ill.
Filed June 17, 1929. Serial No. 285,701. PUBLISHED JANUARY 28, 1930. Class 46.

269,580. GLUES, SIZING GLUES, AND BILLPOSTERS' PASTES. Liquid Dehydration Corporation, Chicago, Ill.
Filed June 14, 1929. Serial No. 285,576. PUBLISHED FEBRUARY 4, 1930. Class 5.

269,581. PHARMACEUTICAL PREPARATIONS. Stuart Industrial Service Inc., Chicago, Ill.
Filed June 19, 1929. Serial No. 285,767. PUBLISHED AUGUST 6, 1929. Class 6.

269,582. CARPETS AND STAIR CARPETS OF TEXTILES. Leonhard Koch, doing business as Koch & Te Kock, Oelsnitz, Germany.
Filed June 26, 1929. Serial No. 286,182. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,583. INSECTICIDES. Friedman Tobacco Products Corporation, York, Pa.
Filed June 22, 1929. Serial No. 285,968. PUBLISHED JANUARY 28, 1930. Class 6.

269,584. HOLDERS FOR HOLDING LONG-HANDLED IMPLEMENTS SUCH AS BROOMS, MOPS, RAKES, AND THE LIKE. The Colson Company, Elyria, Ohio.
Filed July 5, 1929. Serial No. 286,625. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,585. STOCK AND POULTRY FEED. General Mills, Inc., Minneapolis, Minn.
Filed July 15, 1929. Serial No. 287,133. PUBLISHED JANUARY 28, 1930. Class 46.

269,586. FRESH CITRUS FRUITS. Holly Hill Fruit Products, Inc., Davenport, Fla.
Filed July 22, 1929. Serial No. 287,474. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,587. SPONGES AND CHAMOIS. Allied Industrial Products Co., Chicago, Ill.
Filed August 2, 1929. Serial No. 287,990. PUBLISHED FEBRUARY 4, 1930. Class 1.

269,588. NONMECHANICAL, NONABRASIVE SHARPENING DEVICES FOR RAZOR BLADES AND THE LIKE. Honex Corporation of America, Chicago, Ill.
Filed August 7, 1929. Serial No. 288,236. PUBLISHED FEBRUARY 4, 1930. Class 28.

269,589. MEN'S AND YOUNG MEN'S SUITS. Keller Heumann & Thompson Company, Inc., Rochester, N. Y.
Filed August 14, 1929. Serial No. 288,501. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,590. MALT SYRUPS. Bristol Gustafson Brokerage Co., Minneapolis, Minn.
Filed August 28, 1929. Serial No. 289,097. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,591. BOOT AND SHOE SOCKS. Lewis Silvanus Williams, doing business as E. Randall & Co., Romsey, England.
Filed September 16, 1929. Serial No. 289,863. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,592. CROCKERY, EARTHENWARE, AND PORCELAIN. Schumann China Corporation, New York, N. Y.
Filed September 17, 1929. Serial No. 289,905. PUBLISHED FEBRUARY 4, 1930. Class 30.

269,593. ICE CREAM. Jay D. Reed, doing business as Reed Home Made Ice Cream Company, Des Moines, Iowa.
Filed September 18, 1929. Serial No. 289,941. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,594. BREAD STICKS. A. Angonoa, Inc., New York, N. Y.
Filed November 14, 1929. Serial No. 292,386. PUBLISHED JANUARY 28, 1930. Class 46.

269,595. A MEDICINAL PREPARATION FOR THE RELIEF OF AILMENTS OF THE STOMACH—NAMELY, GASTRIC DYSPEPSIA AND INDIGESTION. Boleslaw Kragiel, doing business as Kragiel Laboratory, New Britain, Conn.
Filed November 16, 1929. Serial No. 292,500. PUBLISHED JANUARY 28, 1930. Class 6.

269,596. A RARE-EARTH COMPOUND, BEING A NATURAL CALCIUM COMPOUND, TO BE USED IN ITS CHEMICALLY-NATURAL STATE BOTH EXTERNALLY AND INTERNALLY FOR THE RELIEF OF CUTS, BURNS, ABRASIONS, INFLAMMATION, BOTH INTERNAL AND EXTERAL, AND HYPERACIDITY IN THE ALIMENTARY CANAL, AND ALL AILMENTS RESULTING FROM SUCH HYPERACIDITY, WHICH NATURAL COMPOUND IS PUT OUT IN THE FORM OF A POWDER OR IN COMBINATION WITH CHEMICALLY AND MEDICINALLY NEUTRAL INGREDIENTS FOR GIVING THE SAID COMPOUND A DESIRED FORM, SUCH AS PASTE, SALVE, LIQUID, ETC., AS WELL AS A DESIRED FLAVOR AND/OR ODOR. Colorado Natural Remedy Association, Denver, Colo.
Filed November 18, 1929. Serial No. 292,522. PUBLISHED JANUARY 28, 1930. Class 6.

269,597. LADIES' READY-TO-WEAR OUTER GARMENTS—NAMELY, DRESS SUITS AND COATS. Ernest Weissberger, doing business as Pollyanna Shops, New York, N. Y.
Filed November 18, 1929. Serial No. 292,563. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,598. POPPING CORN. American Pop Corn Company, Sioux City, Iowa.
Filed November 19, 1929. Serial No. 292,571. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,599. DIABETIC INGREDIENTS AND FOOD PRODUCTS. Diabetic Food Company, Inc., Brooklyn, N. Y.
Filed April 18, 1929. Serial No. 282,345. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,600. MOTOR-DRIVEN BLOWERS FOR COAL-BURNING SYSTEMS. Edward P. Bliss Jr., Philadelphia, Pa.
Filed April 4, 1929. Serial No. 281,809. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,601. TANNED KID SKINS. Amalgamated Leather Companies, Inc., Philadelphia, Pa.
Filed February 26, 1930. Serial No. 279,905. PUBLISHED FEBRUARY 4, 1930. Class 1.

269,602. FRUIT AND VEGETABLE HAMPERS. Manatee Crate Company, Inc., Manatee, Fla.
Filed February 23, 1929. Serial No. 279,802. PUBLISHED FEBRUARY 4, 1930. Class 2.

269,603. AEROPLANES AND STRUCTURAL PARTS THEREOF. Aeronautical Corporation of America, Cincinnati, Ohio.
Filed February 20, 1929. Serial No. 279,636. PUBLISHED FEBRUARY 4, 1930. Class 19.

269,604. CIGARS. G. H. Thompson, Manitowoc, Wis.
Filed February 11, 1929. Serial No. 279,198. PUBLISHED FEBRUARY 4, 1930. Class 17.

269,605. BRAKES AND PARTS THEREOF AND BRAKE-OPERATING MECHANISMS AND PARTS THEREOF. American Cable Company, Inc., Bridgeport, Conn.
Filed February 8, 1929. Serial No. 279,019. PUBLISHED FEBRUARY 4, 1930. Class 19.

269,606. PREPARED CREPE INDIA RUBBER IN SHEETS. The Wilkinson Process Rubber Co., Ltd., Kuala-Lumpur, Federated Malay States.
Filed January 31, 1929. Serial No. 278,728. PUBLISHED FEBRUARY 4, 1930. Class 1.

269,607. COMBINATION COIN PURSES, THREE-FOLD WALLETS, HIP-FOLD WALLETS, LEATHER LICENSE CASES, VALUABLE-PAPER WALLETS, LEATHER KEY CASES, AND LEATHER CARD-CASES. The Diary Publishing Corporation, New York, N. Y.
Filed January 9, 1929. Serial No. 277,753. PUBLISHED FEBRUARY 4, 1930. Class 3.

269,608. MIXED AND PREPARED BIRDSEED. Louis Haller, doing business as Haller's Bird Store, Cincinnati, Ohio.
Filed January 4, 1929. Serial No. 277,583. PUBLISHED JANUARY 28, 1930. Class 46.

269,609. WHEAT FLOUR AND WHOLE-WHEAT FLOUR. Campbell Holton & Co., Bloomington, Ill.
Filed December 10, 1928. Serial No. 276,525. PUBLISHED JANUARY 28, 1930. Class 46.

269,610. HEATING RADIATORS. Rome Brass Radiator Corporation, New York, N. Y.
Filed November 16, 1928. Serial No. 275,409. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,611. CARBON PAPER. Niagara Fold, Inc., Niagara Falls, N. Y.
Filed October 29, 1928. Serial No. 274,476. PUBLISHED FEBRUARY 4, 1930. Class 11.

269,612. POULTRY GRIT. Carthage Crushed Limestone Company, Carthage, Mo.
Filed October 22, 1928. Serial No. 274,097. PUBLISHED FEBRUARY 4, 1930. Class 1.

269,613. CANNED FRUIT SALAD, CANNED VEGETABLES. United States Products Corporation, San Jose, Calif.
Filed October 10, 1928. Serial No. 273,616. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,614. CAKE. The Bon Ton Cake Company, Brooklyn, N. Y.
Filed October 1, 1928. Serial No. 273,180. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,615. BUILDING CEMENT. Utica Hydraulic Cement Company, Utica, Ill.
Filed September 13, 1928. Serial No. 272,367. PUBLISHED FEBRUARY 4, 1930. Class 12.

269,616. CERTAIN NAMED PAINT PRODUCTS. Arthur K. Fleming, doing business as Dura-Stone Chemical Products Company, New York, N. Y.
Filed April 25, 1929. Serial No. 282,985. PUBLISHED OCTOBER 1, 1929. Class 16.

269,617. ORNAMENTAL AND DECORATIVE LAMP BASES AND LAMP SHADES, SAID SHADES BEING OF PAPER, PAPER PARCHMENT, LEATHER AND PAPER, AND LEATHER AND PAPER PARCHMENT. Patterson Studios, Inc., Chicago, Ill.
Filed May 17, 1929. Serial No. 284,197. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,618. RADIUM SILK USED FOR MEN'S AND BOYS' SHIRTS. Goshen Shirt Manufacturing Company, Chicago, Ill.
Filed September 20, 1929. Serial No. 290,022. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,619. WOMEN'S WEARING APPAREL, MORE PARTICULARLY DESIGNATED AS WOMEN'S, MISSES', AND CHILDREN'S DRESSES, COATS, SUITS, AND SKIRTS. Maurice Seaman, San Francisco, Calif.
Filed September 20, 1929. Serial No. 290,035. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,620. FLY SPRAY FOR LIVESTOCK. Shobbs-Mueller Company, Cedar Rapids, Iowa.
Filed September 25, 1929. Serial No. 290,224. PUBLISHED JANUARY 28, 1930. Class 6.

269,621. MATCHES MARKETED IN BOOK OR PACKAGE FORM. Pullenlite Company, Philadelphia, Pa.
Filed September 27, 1929. Serial No. 290,328. PUBLISHED FEBRUARY 4, 1930. Class 9.

269,622. MEN'S BREECHES. Bedford Johnson Co., Inc., New York, N. Y.
Filed October 10, 1929. Serial No. 290,879. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,623. WORK TROUSERS. Bedford Johnson Co., Inc., New York, N. Y.
Filed October 10, 1929. Serial No. 290,881. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,624. MEN'S CLOTHING AND GENTS' FURNISHINGS. Ph. Weinberg & Sons, New York, N. Y.
Filed October 21, 1929. Serial No. 291,374. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,625. WATERPROOF OILED CLOTHING FOR MEN, WOMEN, AND CHILDREN—NAMELY, SLICKERS, SUITS, HATS, AND APRONS. H. M. Sawyer & Son Incorporated, Cambridge, Mass.
Filed October 22, 1929. Serial No. 291,415. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,626. WATCH CRYSTALS. Charles V. Walter, Inc., New York, N. Y.
Filed October 25, 1929. Serial No. 291,595. PUBLISHED FEBRUARY 4, 1930. Class 33.

269,627. COMBINED PRESSURE REGULATORS, REDUCERS, AND GASIFIERS. Stephen S. Thomas, Lebanon, Ohio.
Filed June 4, 1929. Serial No. 285,051. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,628. WATCH CRYSTALS. Charles V. Walter, Inc., New York, N. Y.
Filed October 25, 1929. Serial No. 291,596. PUBLISHED FEBRUARY 4, 1930. Class 33.

269,629. CHEMICAL SUBSTANCES FOR MAKING BATCHING OIL SOLUBLE IN WATER FOR USE IN THE MANUFACTURE OF JUTE, FLAX, HEMP, COTTON, AND WOOL. Henry Roberts Hills, Inverkeithing, Scotland.
Filed October 31, 1929. Serial No. 291,828. PUBLISHED JANUARY 28, 1930. Class 6.

269,630. SOCKS. Pilot Hosiery Mills, Incorporated, Lexington, N. C.
Filed October 31, 1929. Serial No. 291,840. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,631. SADDLERY HARDWARE. Covert Manufacturing Company, New York, N. Y.
Filed November 1, 1929. Serial No. 291,859. PUBLISHED JANUARY 28, 1930. Class 3.

269,632. COATS FOR WOMEN. CONSOLIDATED DRY GOODS CO., Poughkeepsie, N. Y., and Springfield, Mass.
Filed November 1, 1929. Serial No. 291,867. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,633. CIGARS. CIFUENTES, PEGO Y COMPAÑIA, Habana, Cuba.
Filed November 5, 1929. Serial No. 292,026. PUBLISHED FEBRUARY 4, 1930. Class 17.

269,634. VEGETABLE EXTRACTS FOR THE TREATMENT OF HIGH-BLOOD PRESSURE. THE ALCARDOL CORPORATION, Jersey City, N. J.
Filed November 8, 1929. Serial No. 292,150. PUBLISHED JANUARY 28, 1930. Class 6.

269,635. SHOE-SHINING KITS CONSISTING OF WOOL POLISHERS AND DAUBERS. 2 IN 1-SHINOLA-BIXBY CORPORATION, New York, N. Y.
Filed November 8, 1929. Serial No. 292,186. PUBLISHED FEBRUARY 4, 1930. Class 29.

269,636. GIRLS' HOSIERY. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed November 9, 1929. Serial No. 292,209. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,637. WOOLEN SUITING IN THE PIECE. MORRIS M. SCHER, Baltimore, Md.
Filed November 12, 1929. Serial No. 292,341. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,638. CANNED MEATS AND CANNED MEAT PRODUCTS—NAMELY, CANNED CORNED BEEF AND CANNED MEAT LOAF. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y.
Filed December 6, 1929. Serial No. 293,324. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,639. CLOTHES-WASHING MACHINES. KOHLER COMPANY, Kohler, Wis.
Filed December 7, 1929. Serial No. 293,372. PUBLISHED FEBRUARY 4, 1930. Class 24.

269,640. POTTERY, CONSISTING OF LAVATORIES, CLOSET BOWLS, CLOSET TANKS, URINALS, AND HOPPERS. KOHLER COMPANY, Kohler, Wis.
Filed December 7, 1929. Serial No. 293,374. PUBLISHED FEBRUARY 4, 1930. Class 18.

269,641. CANDY. THE SHOOT CHOCOLATE COMPANY, doing business as Shoot's, Cleveland, Ohio.
Filed December 7, 1929. Serial No. 293,383. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,642. PREPARED FOODS—NAMELY, SOUPS. ZUCCA'S RESTAURANT, INC., doing business as Zucca's Italian Gardens, New York, N. Y.
Filed December 7, 1929. Serial No. 293,395. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,643. LEATHER KEY CONTAINER. S & G LEATHER GOODS CO., INC., New York, N. Y.
Filed December 10, 1929. Serial No. 293,487. PUBLISHED JANUARY 28, 1930. Class 3.

269,644. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,541. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,645. WHEAT FLOUR. MANEY MILLING COMPANY, Omaha, Nebr.
Filed December 10, 1929. Serial No. 293,477. PUBLISHED JANUARY 28, 1930. Class 46.

269,646. WHEAT FLOUR. MANEY MILLING COMPANY, Omaha, Nebr.
Filed December 10, 1929. Serial No. 293,478. PUBLISHED JANUARY 28, 1930. Class 46.

269,647. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,542. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,648. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,547. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,649. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,548. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,650. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,549. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,651. RUBBER AND FABRIC BELTING, RUBBER HOSE, PISTON PACKING. PIONEER RUBBER MILLS, San Francisco, Calif.
Filed December 12, 1929. Serial No. 293,594. PUBLISHED FEBRUARY 4, 1930. Class 35.

269,652. PUDDINGS. ANGUS WATSON & CO. (AMERICA) LIMITED, San Francisco, Calif.
Filed December 14, 1929. Serial No. 293,702. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,653. CAKE. SCHULZE BAKING COMPANY, Chicago, Ill., and Kansas City, Mo.
Filed December 16, 1929. Serial No. 293,750. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,654. HYDRAULIC HOISTS. WESTERN ELEVATOR & MFG. CO., San Jose, Calif.
Filed December 16, 1929. Serial No. 293,760. PUBLISHED FEBRUARY 4, 1930. Class 23.

269,655. FLAVORING EXTRACTS AND CONCENTRATED SYRUPS. J. F. LAZIER MANUFACTURING CO., INC., St. Louis, Mo.
Filed December 17, 1929. Serial No. 293,780. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,656. CAKE IMPROVER USED AS AN INGREDIENT FOR CAKES AND CONFECTIONS. JOHN RENSHAW, INC., Brooklyn, N. Y.
Filed December 17, 1929. Serial No. 293,791. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,657. FILLING AND TOPPING FOR CAKES, CANDIES, AND CONFECTIONS. JOHN RENSHAW, INC., Brooklyn, N. Y.
Filed December 17, 1929. Serial No. 293,790. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,658. ITALIAN-STYLE RAVIOLI, ITALIAN-STYLE MUSHROOM SAUCE. SUPERBA PACKING CO., San Francisco, Calif.
Filed December 17, 1929. Serial No. 293,801. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,659. PNEUMATIC TIRES AND INNER TUBES THEREFOR, TIRE AND TUBE REPAIR OUTFITS, ETC. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 18, 1929. Serial No. 293,829. PUBLISHED FEBRUARY 4, 1930. Class 35.

269,660. POTATO CHIPS. BEST & HOBBS, New Bedford, Mass.
Filed December 19, 1929. Serial No. 293,865. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,661. CARBONATED NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. FEIGENSON BROS. CO., Detroit, Mich.
Filed December 19, 1929. Serial No. 293,874. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,662. FRESH DECIDUOUS FRUITS. BIG 7 FRUIT DISTRIBUTORS, INC., New York, N. Y.; Hood River, Oreg.; and Underwood, Wash.
Filed December 20, 1929. Serial No. 293,915. PUBLISHED FEBRUARY 4, 1930. CLASS 46.

269,663. LARD. SWIFT AND COMPANY, Chicago, Ill.
Filed December 28, 1929. Serial No. 294,031. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,664. TOOTH PASTE AND ANTISEPTIC LOZENGES. SHARP & DOHME, INCORPORATED, Baltimore, Md.
Filed December 5, 1929. Serial No. 293,293. PUBLISHED JANUARY 28, 1930. Class 6.

269,665. EGGS AND EGG PRODUCTS—NAMELY, FROZEN WHOLE EGGS, FROZEN EGG YOLKS, ETC. THE AMOS BIRD CO., Boston, Mass.
Filed December 7, 1929. Serial No. 293,362. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,666. THOUSAND ISLAND DRESSING, MAYONNAISE DRESSING, PECAN SALAD DRESSING, AND OLIVE SALAD DRESSING. OLIBANS SALAD KITCHEN, Lynchburg, Va.
Filed December 5, 1929. Serial No. 293,284. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,667. TOOTH PASTE. PEOPLES DRUG STORES, INC., doing business as The Barnard Co., Washington, D. C.
Filed November 30, 1929. Serial No. 293,107. PUBLISHED JANUARY 28, 1930. Class 6.

269,668. BLOUSES AND SHIRTS OF TEXTILE MATERIAL FOR BOYS AND YOUTHS, THE SHIRTS BEING OUTER SHIRTS. SONNY BLOUSE COMPANY, INC., New York, N. Y., assignor to S. Liebovitz & Sons, Inc., New York, N. Y., a Corporation of New York.
Filed November 29, 1929. Serial No. 293,077. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,669. COUGH SYRUP. HARRY STOOR, Lakewood, Ohio.
Filed December 5, 1929. Serial No. 293,296. PUBLISHED JANUARY 28, 1930. Class 6.

269,670. SYSTEMIC TONIC FOR THE RELIEF AND CORRECTION OF MALNUTRITION, LANGUIDNESS, AND FRAILTY IN MEN, WOMEN, AND CHILDREN. LEWIS LABORATORIES, INC., Atlanta, Ga.
Filed December 7, 1929. Serial No. 293,375. PUBLISHED JANUARY 28, 1930. Class 6.

269,671. TOMATO JUICE. FRANK A. MENNILLO, Los Angeles, Calif.
Filed December 9, 1929. Serial No. 293,437. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,672. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed December 10, 1929. Serial No. 293,497. PUBLISHED FEBRUARY 4, 1930. Class 9.

269,673. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,554. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,674. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1929. Serial No. 293,553. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,675. POWDER PUFFS. JEANETTE POWDER PUFFS, INC., Newark, N. J.
Filed December 12, 1929. Serial No. 293,586. PUBLISHED FEBRUARY 4, 1930. Class 29.

269,676. SALAD DRESSINGS. MEADOW GOLD SALAD DRESSINGS CO., Kansas City, Mo.
Filed December 12, 1929. Serial No. 293,589. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,677. INSECTICIDE. B. & B. CHEMICAL CORPORATION, New York, N. Y.
Filed December 12, 1929. Serial No. 293,568. PUBLISHED JANUARY 28, 1930. Class 6.

269,678. LAXATIVES. RACE LABORATORIES, INC., New York, N. Y.
Filed December 12, 1929. Serial No. 293,596. PUBLISHED JANUARY 28, 1930. Class 6.

269,679. WHEAT FLOUR. THE WALL ROGALSKY MILLING COMPANY, McPherson, Kans.
Filed December 12, 1929. Serial No. 293,610. PUBLISHED JANUARY 28, 1930. Class 46.

269,680. TYPEWRITER RIBBONS AND CARBON PAPER. JOSEPH A. FARKAS, doing business as Farkas & Company, Oklahoma City, Okla.
Filed December 18, 1929. Serial No. 293,621. PUBLISHED FEBRUARY 4, 1930. Class 11.

269,681. PERFUMERY. MOLINELLE (LONDON) LIMITED, London, England.
Filed December 13, 1929. Serial No. 293,633. PUBLISHED JANUARY 28, 1930. Class 6.

269,682. PRESS CLOTH AND LINING FABRICS IN THE PIECE MADE WHOLLY OR IN PART OF COTTON AND ANIMAL FIBRES. RUDOLPH RECHER, North Providence, R. I.
Filed December 13, 1929. Serial No. 293,640. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,683. HAIRDRESSINGS. TRIPOLI BARBER SUPPLY CO. INC., Philadelphia, Pa.
Filed December 13, 1929. Serial No. 293,646. PUBLISHED JANUARY 28, 1930. Class 6.

269,684. FELT-BASE RUGS AND FLOOR COVERING. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed December 14, 1929. Serial No. 293,659. PUBLISHED FEBRUARY 4, 1930. Class 20.

269,685. FELT-BASE RUGS AND FLOOR COVERING. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed December 14, 1929. Serial No. 293,660. PUBLISHED FEBRUARY 4, 1930. Class 20.

269,686. FELT-BASE RUGS AND FLOOR COVERING. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed December 14, 1929. Serial No. 293,661. PUBLISHED FEBRUARY 4, 1930. Class 20.

269,687. ACTIVATED ADSORPTION AND DECOLORIZING CARBONS. METALLGESELLSCHAFT AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed December 14, 1929. Serial No. 293,676. PUBLISHED JANUARY 28, 1930. Class 6.

269,688. SEMIPORCELAIN DINNER WARE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 14, 1929. Serial No. 293,695. PUBLISHED FEBRUARY 4, 1930. Class 30.

269,689. SEAMLESS RUGS FOR FLOOR-COVERING PURPOSES. ARTLOOM CORPORATION, Artloom Rug Mills Division, Philadelphia, Pa.
Filed December 16, 1929. Serial No. 293,711. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,690. PIECE GOODS MADE OF SILK, COTTON, AND RAYON AND MIXTURES OF SAME. LOEPFLER, ANHALT CO. INC., New York, N. Y.
Filed December 17, 1929. Serial No. 293,782. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,691. POTTERY, CHINAWARE, STONEWARE, EARTHENWARE, TERRA-COTTA WARE, AND PORCELAIN WARE. THE SALEM POTTERY COMPANY, Salem, Ohio.
Filed December 21, 1929. Serial No. 293,986. PUBLISHED FEBRUARY 4, 1930. Class 30.

269,692. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed December 26, 1929. Serial No. 294,070. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,693. VELVETEEN IN THE PIECE. L. & H. STERN, New York, N. Y.
Filed December 26, 1929. Serial No. 294,094. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,694. PREPARATION FOR REMOVING CARBON FROM INTERNAL-COMBUSTION ENGINES. EUGENE L. PINE, doing business as Lancaster Specialty Sales Co., Lancaster, Pa.
Filed March 7, 1930. Serial No. 296,980. Class 6.

269,695. WATERPROOFING PREPARATION FOR MASONRY WALLS. ANTI-HYDRO WATERPROOFING COMPANY, Newark, N. J.
Filed November 29, 1929. Serial No. 293,022. PUBLISHED FEBRUARY 4, 1930. Class 12.

269,696. EVAPORATED MILK. JOHN F. JELKE COMPANY, Chicago, Ill.
Filed November 29, 1929. Serial No. 293,050. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,697. PLATES AND DISHES MADE FROM PAPER PULP OR FIBRE. KEYES FIBRE COMPANY, INC., Waterville, Me.
Filed November 29, 1929. Serial No. 293,058. PUBLISHED FEBRUARY 4, 1930. Class 2.

269,698. WATERPROOFING PREPARATION FOR MASONRY WALLS. ANTI-HYDRO WATERPROOFING COMPANY, Newark, N. J.
Filed November 29, 1929. Serial No. 293,021. PUBLISHED FEBRUARY 4, 1930. Class 12.

269,699. HIGH-TEMPERATURE CEMENT. PLIBRICO JOINTLESS FIREBRICK COMPANY, Chicago, Ill.
Filed November 29, 1929. Serial No. 293,069. PUBLISHED FEBRUARY 4, 1930. Class 12.

269,700. COTTON PIECE GOODS. TILTON & KEELER INC., New York, N. Y.
Filed November 30, 1929. Serial No. 293,117. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,701. PADDING OR BAT FOR USE AS A BUILDING MATERIAL. THE UPSON COMPANY, Lockport, N. Y.
Filed December 2, 1929. Serial No. 293,165. PUBLISHED FEBRUARY 4, 1930. Class 12.

269,702. NONALCOHOLIC, CEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK. WARD M. IRVIN, doing business as Garden Ale Company, Battle Creek, Mich.
Filed December 3, 1929. Serial No. 293,182. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,703. COMBINED INCINERATORS AND WATER HEATERS. DUO-TOR MFG. CO., Dayton, Ohio.
Filed December 4, 1929. Serial No. 293,213. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,704. SAFETY DRAINS FOR BASEMENT FLOORS. FRANK PEKAREK, Chicago, Ill.
Filed December 4, 1929. Serial No. 293,233. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,705. WOVEN AND TEXTILE RUGS. JOSEPH A. RYAN, doing business as Karastan Rug Mills, New York, N. Y.
Filed December 4, 1929. Serial No. 293,236. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,706. WOVEN AND TEXTILE RUGS. JOSEPH A. RYAN, doing business as Karastan Rug Mills, New York, N. Y.
Filed December 4, 1929. Serial No. 293,237. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,707. POULTRY AND STOCK FEEDS. WILKINS-ROGERS MILLING COMPANY, INC., Washington, D. C.
Filed December 5, 1929. Serial No. 293,303. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,708. WHEAT FLOUR. CHAS. LEE DE BORD, doing business as De Bord Mills, Johnson City, Tenn.
Filed December 6, 1929. Serial No. 293,313. PUBLISHED JANUARY 28, 1930. Class 46.

269,709. SILK AND ARTIFICIAL-SILK GOODS IN THE PIECE AND MIXTURES OF THE SAME. FRANK & COHEN SILK CORPORATION, New York, N. Y.
Filed December 6, 1929. Serial No. 293,317. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,710. PIECE GOODS OF SILK AND RAYON AND MIXTURES THEREOF. DUPLAN SILK CORPORATION, New York, N. Y.
Filed December 6, 1929. Serial No. 293,315. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,711. BOYS' BLOUSES, YOUTHS' OUTER SHIRTS FOR DRESS, WORK, AND NEGLIGEE USE, AND PAJAMAS. PENROD BLOUSE CO., INC., New York, N. Y.
Filed November 19, 1929. Serial No. 292,595. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,712. WOOD HEELS FOR SHOES. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass.
Filed November 20, 1929. Serial No. 292,642. PUBLISHED JANUARY 28, 1930. Class 39.

269,713. CARBON DIOXIDE IN SOLIDIFIED FORMS. THE COLORADO DRY-ICE CORPORATION, Denver, Colo.
Filed November 21, 1929. Serial No. 292,656. PUBLISHED JANUARY 28, 1930. Class 6.

269,714. BREAD AND ROLLS. NATIONAL BAKING CO., San Pedro, Calif.
Filed November 22, 1929. Serial No. 292,744. PUBLISHED JANUARY 28, 1930. Class 46.

269,715. SALT. THE UNION SALT COMPANY, Cleveland, Ohio.
Filed November 23, 1929. Serial No. 292,841. PUBLISHED JANUARY 28, 1930. Class 6.

269,716. ROLLED OATS AND OAT FLAKES AND ALSO A CEREAL BREAKFAST FOOD MADE FROM RYE AND OATS. PURITY OATS COMPANY, Keokuk, Iowa.
Filed November 25, 1929. Serial No. 292,901. PUBLISHED JANUARY 28, 1930. Class 46.

269,717. COTTON GOODS IN THE PIECE AND COTTON AND SILK GOODS IN THE PIECE AND ARTIFICIAL-SILK GOODS IN THE PIECE. ROSSMAN BROTHERS & MESSNER, INC., New York, N. Y.
Filed November 25, 1929. Serial No. 292,904. PUBLISHED FEBRUARY 4, 1930. Class 42.

269,718. LOZENGES FOR THE RELIEF OF COLDS, COUGHS, THROAT IRRITATIONS, AND THE LIKE. CHARLES ANASTASIA, doing business as The Gardner Co., Everett, Mass.
Filed November 27, 1929. Serial No. 292,959. PUBLISHED JANUARY 28, 1930. Class 6.

269,719. GENITO-URINARY ANTISEPTIC. BIO-MEDICAL RESEARCH LABORATORIES, INCORPORATED, Brooklyn, N. Y.
Filed November 27, 1929. Serial No. 292,968. PUBLISHED JANUARY 28, 1930. Class 6.

269,720. ADHESIVE CEMENT. MARTIN CHEMICAL PRODUCTS COMPANY, Boston, Mass.
Filed November 27, 1929. Serial No. 292,998. PUBLISHED FEBRUARY 4, 1930. Class 5.

269,721. THERMOSTATS. LAKESIDE MANUFACTURING COMPANY, Chicago, Ill.
Filed September 21, 1929. Serial No. 290,073. PUBLISHED FEBRUARY 4, 1930. Class 26.

269,722. FARM IMPLEMENTS—NAMELY, WEEDERS, PLOWS, CULTIVATORS, AND HARROWS. CLAUDE L. KEY, Milton, Oreg., assignor to Key Weeder Company, a Corporation of Oregon.
Filed September 25, 1929. Serial No. 290,216. PUBLISHED FEBRUARY 4, 1930. Class 23.

269,723. LEATHER BELTING. HOLYOKE BELTING COMPANY, Holyoke, Mass.
Filed October 3, 1929. Serial No. 290,574. PUBLISHED FEBRUARY 4, 1930. Class 35.

269,724. TRANSMISSION CHAINS AND THEIR PARTS. SOC. ANON. OFFICINE DI VILLAR PEROSA, Turin, Italy.
Filed October 11, 1929. Serial No. 290,978. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,725. CAKE FLOUR. RELIABLE FLOUR COMPANY, Boston, Mass.
Filed October 19, 1929. Serial No. 291,292. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,726. SYNCHRONIZED UNITARY APPARATUS FOR THE REPRODUCTION OF LIGHT AND SOUND EFFECTS. NORTH AMERICAN SOUND & TALKING PICTURE EQUIPMENT CORPORATION, New York, N. Y.
Filed October 23, 1929. Serial No. 291,470. PUBLISHED FEBRUARY 4, 1930. Class 26.

269,727. LAMPS AND LANTERNS USING HYDROCARBON FUEL, MANTLES THEREFOR, AND PARTS THEREOF. A. J. LINDEMANN & HOVERSON COMPANY, Milwaukee, Wis.
Filed October 24, 1929. Serial No. 291,516. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,728. OIL-MEASURING PUMPS. MILWAUKEE TANK WORKS, INC., Milwaukee, Wis.
Filed October 26, 1929. Serial No. 291,629. PUBLISHED FEBRUARY 4, 1930. Class 23.

269,729. FRESH CANTALOUPES AND WATERMELONS. F. W. RICHARDSON & SON, doing business as Richardson Fruit Farms Co., Hicksville, Ohio.
Filed October 26, 1929. Serial No. 291,636. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,730. BITUMINOUS COAL. SUNNYBROOK COAL CO., Detroit, Mich.
Filed October 28, 1929. Serial No. 291,712. PUBLISHED FEBRUARY 4, 1930. Class 1.

269,731. CHEMICAL COMPOSITION FOR USE AS SEALING WAX. JUAN LESIUK, Buenos Aires, Argentina, assignor to Trucco and Lesiuk, Buenos Aires, Argentina, a Copartnership composed of Enrique Jacinto Trucco and Juan Lesiuk, Buenos Aires, Argentina.
Filed April 15, 1929. Serial No. 282,417. PUBLISHED JANUARY 28, 1930. Class 5.

269,732. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. CHARLES L. KELSEY, Eden, Tex.
Filed October 31, 1929. Serial No. 291,838. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,733. CERTAIN NAMED CANNED GOODS. RUTHERFORD CHILD CO., Kansas City, Mo.
Filed November 2, 1929. Serial No. 291,984. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,734. METAL FENCE POSTS. MISSOURI ROLLING MILL CORPORATION, St. Louis, Mo.
Filed November 4, 1929. Serial No. 291,997. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,735. METAL NAME PLATES. THE GUSTAVE FOX COMPANY, Cincinnati, Ohio.
Filed November 9, 1929. Serial No. 292,205. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,736. CONCENTRATES, COMPOUNDS, SYRUPS, AND BEVERAGES. ORANGE-CRUSH COMPANY, Chicago, Ill.
Filed November 11, 1929. Serial No. 292,282. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,737. AERATED AND NON AERATED NATURAL AND ARTIFICIAL MINERAL WATERS. SPA MONOPOLE CIE. FERMIÈRE DES EAUX ET DES BAINS DE SPA SOCIÉTÉ ANONYME, Spa, Belgium.
Filed November 12, 1929. Serial No. 292,339. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,738. WIRE-FRAME HAT HOLDERS FOR USE IN TRAVELLING CASES. EDITH AU WERTER, Cleveland Heights, Ohio.
Filed November 14, 1929. Serial No. 292,388. PUBLISHED FEBRUARY 4, 1930. Class 18.

269,739. OYSTERS. ROCK POINT OYSTER CO., INC., Olympia, Wash.
Filed November 18, 1929. Serial No. 292,554. PUBLISHED JANUARY 28, 1930. Class 46.

269,740. LOCK NUTS AND LOCK WASHERS. INTERNATIONAL SAFETY LOCK NUT CORPORATION, New York, N. Y.
Filed November 20, 1929. Serial No. 292,681. PUBLISHED FEBRUARY 4, 1930. Class 18.

269,741. AUTOMOBILE SEAT AND UPHOLSTERY COVERS. BENJ. T. CRUMP COMPANY, Richmond, Va.
Filed November 21, 1929. Serial No. 292,658. PUBLISHED FEBRUARY 4, 1930. Class 19.

269,742. COMPOSITION FOR USE IN SEALING FISSURES IN GEOLOGICAL FORMATIONS IN WELLS AND IN SUBTERRANEAN CONSTRUCTION WORK WHICH CAN BE REACHED SOLELY BY MATERIAL PLACED UNDER PRESSURE. ALBERT J. RAINEY, Los Angeles, Calif.
Filed November 21, 1929. Serial No. 292,683. PUBLISHED FEBRUARY 4, 1930. Class 12.

269,743. DEFLECTORS FOR GAS STOVES. MONARCH PRODUCTS COMPANY, Baltimore, Md.
Filed November 25, 1929. Serial No. 292,887. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,744. DISTILLED WATER AND NONALCOHOLIC CEREAL AND MALTLESS BEVERAGES SOLD AS SOFT DRINKS. URIAH J. HEDRICH, Presque Isle, Me.
Filed November 27, 1929. Serial No. 292,991. PUBLISHED FEBRUARY 4, 1930. Class 45.

269,745. COAL, GAS, AND ELECTRIC HOT-WATER-SUPPLY HEATERS. ROLLAND J. GAZELLE, Montreal, Quebec, Canada.
Filed August 10, 1928. Serial No. 270,888. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,746. HEADACHE POWDER, DAMIANA, LIVER, KIDNEY, AND BLADDER PILLS, ETC. JOHN HEILAND CO., Chicago, Ill.
Filed August 10, 1928. Serial No. 270,889. PUBLISHED JANUARY 28, 1930. Class 6.

269,747. BATH POWDER. LES PARFUMS DE ROSINE, INC., New York, N. Y.
Filed July 28, 1928. Serial No. 270,298. PUBLISHED JANUARY 28, 1930. Class 6.

269,748. SMOOTH-SURFACE AND SLATE-SURFACED COMPOSITION ROOFING. CENTRAL PAINT & ROOFING COMPANY, Louisville, Ky.
Filed July 17, 1928. Serial No. 269,714. PUBLISHED DECEMBER 11, 1928. Class 12.

269,749. BURNERS FOR GAS APPLIANCES. JOSEPH ALBERT BECK, Pittsburgh, Pa., assignor to Henry McKinnie, Pittsburgh, Pa.
Filed June 1, 1928. Serial No. 267,298. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,750. HEATING RADIATORS. ROMB BRASS RADIATOR CORPORATION, New York, N. Y.
Filed November 11, 1927. Serial No. 257,442. PUBLISHED FEBRUARY 4, 1930. Class 34.

269,751. LAXATIVE TABLETS. PLAPAO LABORATORIES, INC., St. Louis, Mo.
Filed June 1, 1927. Serial No. 249,863. PUBLISHED JUNE 4, 1929. Class 6.

269,752. SUPPOSITORIES RECOMMENDED FOR THE TREATMENT OF INFLAMMATORY PROCESSES OF THE RECTUM AND OF THE ADJACENT ORGANS. SCHERING & GLATZ, INC., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J., a Corporation of New Jersey.
Filed January 22, 1919. Serial No. 115,382. PUBLISHED JUNE 4, 1929. Class 6.

269,753. MONO-SODIUM SALT OF DIETHYL-BARBITURIC ACID, SODIUM DIETHYL-BARBITURATE, USED AS A HYPNOTIC OR SIMILAR PURPOSES. SCHERING & GLATZ, INC., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J., a Corporation of New Jersey.
Filed January 28, 1919. Serial No. 115,488. PUBLISHED JUNE 25, 1929. Class 6.

269,754. HEXAMETHYLENETETRAMINE OR HEXAMETHYLENAMINE (U. S. P.), EITHER PURE OR IN ADMIXTURE WITH OTHER SUITABLE SUBSTANCES, RECOMMENDED FOR USE AS A URINARY, ANTISEPTIC, AND GENERAL SYSTEMIC ANTISEPTIC. SCHERING & GLATZ, INC., New York, N. Y., assignor to Schering & Glatz, Inc., Bloomfield, N. J., a Corporation of New Jersey.
Filed January 28, 1919. Serial No. 115,490. PUBLISHED JUNE 25, 1929. Class 6.

269,755. EGGS FOR HATCHING AND FOOD PURPOSES AND BABY CHICKS AND LIVE POULTRY. LLOYD E. HOLSINGER, doing business as Del-Mar-Va Hatcheries, Denton, Md.
Filed November 21, 1928. Serial No. 275,618. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,756. COAL. INLAND CONSOLIDATED COAL CORPORATION, Chicago, Ill.
Filed May 31, 1929. Serial No. 284,858. PUBLISHED FEBRUARY 4, 1930. Class 1.

269,757. DAMPER REGULATORS, VALVES, PRESSURE REGULATORS, ETC. LOCKE REGULATOR COMPANY, Salem, Mass.
Filed May 2, 1929. Serial No. 283,406. PUBLISHED FEBRUARY 4, 1930. Class 13.

269,758. CLOTHING. POSTER CLOTHING CO., INC., New Orleans, La.
Filed May 18, 1929. Serial No. 284,276. PUBLISHED FEBRUARY 4, 1930. Class 39.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

269,759. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) RALPH G. ZELEDON, doing business as Seal-Rite Piston Ring Co., Los Angeles, Calif. Filed Oct. 2, 1929. Serial No. 290,535.

Seal-Rite

For Piston Rings, Piston-Ring Expanders, and Annular Metallic Strips Interposed Between Piston Rings and Piston-Ring Expanders.
Claims use since Feb. 1, 1929.

269,760. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MORRIS P. KIRK & SON, INC., Los Angeles, Calif. Filed Sept. 30, 1929. Serial No. 290,417.

KIRK

For Zinc Oxide, Litharge, and Red Lead.
Claims use since November, 1922.

269,761. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HILL FOOD PRODUCTS COMPANY, Los Angeles, Calif. Filed Sept. 9, 1929. Serial No. 289,517.

RITZ

For Mayonnaise, Thousand Island Dressing, Peanut Butter, Tomato Catsup, Pickles, Vegetable Relish, Sandwich Spread, French Dressing, Oleomargarine, and Chow-chow.
Claims use since Feb. 21, 1929.

269,762. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) E. P. JOHNSON PIANO CO., Elgin, Ill. Filed Sept. 6, 1929. Serial No. 289,406.

E.P.JOHNSON
ELGIN, ILLINOIS, U.S.A

For Pianos.
Claims use since 1909.

269,763. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HOWARD E. MOTTS, Cleveland, Ohio. Filed Aug. 6, 1929. Serial No. 288,157.



For Peat Moss.
Claims use since June 15, 1928.

269,764. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Aug. 5, 1929. Serial No. 288,131.

CLIFTON

For Charcoal and Lawn Seeds.
Claims use since Mar. 1, 1929.

269,765. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE EVEREDY COMPANY, Frederick, Md. Filed Aug. 5, 1929. Serial No. 288,119.

EVEREDY

For Screen-Door Grille.
Claims use since Feb. 21, 1929.

269,774. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERRINS QUALITY PRODUCTS CORPORATION, Waltham, Mass. Filed July 27, 1929. Serial No. 287,769.

BAY STATE

For Storage Batteries and Their Parts.
Claims use since Feb. 1, 1929.

269,767. (CLASS 14. METALS AND METAL STINGS AND FORGINGS.) MORRIS P. KIRK & SON, INC., Los Angeles, Calif. Filed July 22, 1929. Serial No. 287,476.

KIRK

For Lead, Antimony, Solder, Babbitt, Zinc, Tin, Die-Casting Alloys, Linotype Metal, Monotype Metal, Stereotype Metal, Antimony Oxide, and Mossy Zinc, Which are Sold as Metallic Products.
Claims use since November, 1922.

269,768. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Filed May 8, 1929. Serial No. 283,659.

CAMERON'S
MYOLOGIC UNIT

For an Optical Outfit Consisting of an Instrument for Examining, Testing, Measuring, and Exercising the Eyes and an Apparatus for Measuring and Charting the Optical Fields of Human Eyes.
Claims use since Jan. 1, 1929.

269,769. (CLASS 39. CLOTHING.) THE BAILEY CO., Cleveland, Ohio. Filed Apr. 23, 1929. Serial No. 282,844.

Wash-Right

For Boys' Wash Suits, Dress and Negligee Shirts, Blouses, and Juvenile Suits.
Claims use since Feb. 11, 1929.

269,770. (CLASS 39. CLOTHING.) NEUSTADTER BROS., San Francisco, Calif. Filed Apr. 4, 1929. Serial No. 281,844.

MULTI NEEDLE RIB

For Knitted Underwear, Union Suits, Knitted Outer Shirts, Sweaters; Sport Clothing—Namely, Pull Overs, Sweat Shirts, Knickers, and Pants; and Pajamas for Men, Women, and Children.
Claims use since Feb. 1, 1929.

269,771. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) EDWARD ELIAS, INC., New York, N. Y. Filed Mar. 28 1929. Serial No. 281,201.

HOLD EVERYTHING BAG

For Hand Bags.
Claims use since Feb. 1, 1929.

269,772. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM HILLS, JR. & CO., INCORPORATED, New York, N. Y. Filed Mar. 9, 1929. Serial No. 280,491.

ריכע בימעל RICH OIL

For Canned Salmon.
Claims use since Feb. 15, 1929.

269,773. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y. Filed Mar. 2, 1929. Serial No. 280,202.

MODERNESQUE

For Oilcloth and Oilcloth Table Covers.
Claims use since Feb. 1, 1929.

269,774. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio. Filed Feb. 26, 1929. Serial No. 279,915.

AUTO-DUSTOR

For Electric Vacuum Cleaners and Parts Thereof.
Claims use since January, 1929.

269,775. (CLASS 39. CLOTHING.) H. & M. NECKWEAR CO., New York, N. Y. Filed Feb. 21, 1929. Serial No. 279,734.

KANT KRUSH

For Cravats.
Claims use since Jan. 10, 1929.

269,776. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TRUTONE RADIO SALES COMPANY, New York, N. Y. Filed Feb. 16, 1929. Serial No. 279,508.

SI-LEN-SER
A TRUTONE PRODUCT

For Filters for Use in Connection with Radio Receiving Apparatus to Suppress Oscillations from Extraneous Sources.
Claims use since Dec. 15, 1928.

269,777. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GEMEX COMPANY, Newark, N. J. Filed Feb. 15, 1929. Serial No. 279,386.

VALENCIA

For Watch Bracelets, Watch Straps; Watch Attachments—Namely, Watch Chains, Fobs, and Charms; Neck Chains, Bracelets, Scarfpins, Finger Rings, Belt Buckles, Ear Ornaments, Hair Ornaments, All Made of or Plated with Precious Metal.
Claims use since Jan. 26, 1929.

269,778. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORNING OLIVE COMPANY, Corning, Calif. Filed Jan. 26, 1929. Serial No. 278,469.

BLACK BEAUTY

For Canned Olives.
Claims use since Jan. 12, 1929.

269,779. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN CONCRETE UNITS CO., San Francisco, Calif. Filed Jan. 5, 1929. Serial No. 277,607.

KorbriK

For Concrete Building Blocks, Particularly for Bearing Wall Construction.
Claims use since Dec. 3, 1928.

269,780. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM C. BAKER, Ojai, Calif. Filed Oct. 29, 1928. Serial No. 274,429.

BILL BAKER'S ORIGINAL 100% LIMA-BEAN-WAFERS

For Baked Wafers.
Claims use since Sept. 10, 1928.

269,781. (CLASS 12. CONSTRUCTION MATERIALS.) FRANK B. WHEAT, doing business as Wheat Cabinet & Fixture Co., Los Angeles, Calif. Filed July 13, 1928. Serial No. 269,561.

POST-LOCK

For Partitions, Rails, and Panelling.
Claims use since May 1, 1928.

269,782. (CLASS 25. LOCKS AND SAFES.) O. B. McCLINTOCK COMPANY, Minneapolis, Minn. Filed May 9, 1928. Serial No. 266,139.

AFTER HOUR

For Night Depositories for Banks.
Claims use since Oct. 14, 1924.

269,783. (CLASS 12. CONSTRUCTION MATERIALS.) THE MOSAIC TILE COMPANY, Zanesville, Ohio. Filed Jan. 23, 1928. Serial No. 260,514.

SATIN MATT

For Floor, Wall, and Ceiling Tiles for Interior and Exterior Purposes.
Claims use since on or about Jan. 2, 1922.

269,784. (CLASS 15. OILS AND GREASES.) ENTERPRISE OIL COMPANY, INC., Buffalo, N. Y. Filed May 17, 1929. Serial No. 284,176.

HYPOID

For Fluid Lubricant for Gear Lubrication.
Claims use since Nov. 17, 1928.

269,785. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ELLIS ADDING-TYPEWRITER COMPANY, Newark, N. J. Filed Nov. 26, 1929. Serial No. 292,928.

ELLIS MODEL

For Accounting Machines, Adding Machines, Calculating and Computing Machines, and Registering Devices Embodying Parts for Machines for Computing, Calculating, Accounting, and Recording.
Claims use since Feb. 1, 1929.

269,786. (CLASS 39. CLOTHING.) CHENEY BROTHERS, South Manchester, Conn. Filed Feb. 12, 1930. Serial No. 295,924.

Brentwood

For Cravats.
Claims use since Jan. 28, 1929.

269,787. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE F. H. LAWSON COMPANY, Cincinnati, Ohio. Filed Feb. 7, 1930. Serial No. 295,773.

Mirror-Lite

For Mirrors, Cabinets, Vanity Dressers, Dressers, Display Tables, Show Cases, Mirror Doors, and Stands.
Claims use since Oct. 10, 1928.

269,788. (CLASS 45. BEVERAGES, NONALCOHOLIC.) MILTON PAUL, doing business as International Extract Co., New York, N. Y. Filed Feb. 7, 1930. Serial No. 295,754.

Paul's
French Cordials

For True Fruit and Imitation Flavoring Extracts for Flavoring Nonalcoholic, Noncereal, Maltless Beverages.
Claims use since July 10, 1928.

269,789. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIOVISION CORPORATION, New York, N. Y. Filed Jan. 25, 1930. Serial No. 295,234.

RAYFOTO

For Light-Sensitive Cells.
Claims use since Apr. 10, 1928.

269,790. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LAIRD & COMPANY, Eatontown, N. J. Filed Jan. 4, 1930. Serial No. 294,891.

FIVE APPLE

For Cider and Pure Apple Juice and Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Sirups for Making the Same.
Claims use since Sept. 1, 1927.

269,791. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WEBSTER ELECTRIC COMPANY, Racine, Wis. Filed Jan. 2, 1930. Serial No. 294,328.

WEBSTER

For Audio Frequency Amplifiers Comprising Assembled Units for Amplifying Electric Signals, Audio Frequency Transformers, Choke Coils, Electric Pick-Up Tone Arms, Electric Pick-Up Voltage Controls, Electrical Sockets and Plugs, Electrical Phonograph Pick-Ups, Power Transformers, High-Voltage Ignition Transformers, and Energizing Transformers for Electric Signs.
Claims use since July 22, 1909, on electrical apparatus in general but since 1920 upon the goods specified herein.

269,792. (CLASS 48. MALT BEVERAGES, AND LIQUORS.) VINO SANO CO., San Francisco, Calif. Filed Dec. 28, 1929. Serial No. 294,198.

MALT BRICK

For a Malt Compound in Brick Form for Making Nonalcoholic, Cereal, Malt Beverages.
Claims use since November, 1927.

269,793. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HASTINGS MANUFACTURING CO., Hastings, Mich. Filed Dec. 18, 1929. Serial No. 293,833.

-DUBL-TEST-

For Piston Rings.
Claims use since Mar. 1, 1928.

269,794. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) HASTINGS MANUFACTURING CO., Hastings, Mich. Filed Dec. 18, 1929. Serial No. 293,832.

DUBL-SLOT

For Piston Rings.
Claims use since Mar. 1, 1923.

269,795. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. WORD LEIGH, Nyack, N. Y., and Key West, Fla. Filed Oct. 29, 1929. Serial No. 291,729.

"Beauty-is-Yours"

For Cold Cream.
Claims use since Sept. 16, 1928.

269,796. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOVE & AMOS COAL COMPANY, Nashville, Tenn. Filed Oct. 11, 1929. Serial No. 290,962.

FENTRESS

For Coal.
Claims use since Jan. 1, 1929.

269,797. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ZEISS IKON AKTIENGESELLSCHAFT, Dresden, Germany. Filed Aug. 11, 1928. Serial No. 270,907.

Zeiss Ikon

For Photographic Apparatus—Namely, Photographic Lenses, Shutters, Light Filters, View Finders, Stereoscopes, Automatic Releases, Tripods, Tripod Heads, Camera Filters, Portable Dark Rooms, Dark-Room Lamps, Sensitized Plates, Sensitized Films, Sensitized Roll Films, Sensitized Film Packs, Sensitized Photographic Papers, Sensitized Photographic Cards, Masks, Vignettes, Finders for Picture Delineation, Plate Slides, Roll Film Slides, Film-Pack Slides, Developing Basins, Fixing Basins, Photographic-Developing Machines, Dropping Bottles, Plate Lifters, Plate Holders, Draining Clamps for Films, Washing and Draining Racks, Washing Vats, Washing Tanks, Printing Frames, Retouching Desks, Retouching Mirrors, Flash-Light Lamps, Scales for Use in the Art of Photography, Weights for Scales, Thermometers, Enlarging Apparatus, Projection Apparatus for Episcopic Projection, Projection Apparatus for Diascopic and Episcopic Projection, Projection Apparatus for Lantern Slides, Projection Apparatus for Microscopic Projection, Cinematographic Moving-Picture Cameras, Cinematographic Projectors and Machines, Cine Printing Machines, Film Rewinders, Film-Examining Machines, Film Counters, Projection Tables, Projection Screens, Slide Carriers Forming Part of Projecting Machines, Condenser Lenses, Prisms, Shooting Cinemas, Hemometers, Exposure Meters, Apparatus for Testing Powders and Explosives, Chronographs, Measuring Instruments for Film Backward Movement, Gas-Pressure Meters; Instruments for Measuring the Tensive Force of Bullets, Barometers, Field Prism Glasses, Telescopes, Microscopes, Densographs, Spectrodensographs, Calculating Machines.
Claims use since Oct. 1, 1926.

269,798. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NEON TUBE MANUFACTURING CO. INC., San Francisco, Calif. Filed July 25, 1928. Serial No. 270,141.

EVERLAST

For Neon and Other Luminescent Tubes, Electrical Transformers, Electrodes, Neon Gas Signs.
Claims use since May 25, 1927.

269,799. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CASIMIR BODAN, doing business as Electronic Laboratories, New York, N. Y. Filed June 26, 1928. Serial No. 268,673.

HYWAT

For Electrical Batteries.
Claims use since May 10, 1928.

269,800. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LEON BAXTER, doing business as Baxter Manufacturing Co., Elmhurst, N. Y. Filed Feb. 4, 1928. Serial No. 261,164.

Electro-Phonic

The drawing is lined to indicate color.
For Electric Pick-Up Devices for Sound Reproduction Employing Electron Tubes for Amplification.
Claims use since Sept. 1, 1926.

269,801. (CLASS 37. PAPER AND STATIONERY.) AMERICAN PAPER EXPORTS, INC., New York, N. Y. Filed Jan. 18, 1930. Serial No. 294,905.

NEPAL

For Ledger, Bond, Mill Board, Writing Bristol, Blotting, Printing, Cover, Thin Typewriter, Wrapping, Mimeograph, and Tissue Paper; Correspondence and Mailing Envelopes, and Papeteries.
Claims use since January, 1927.

269,802. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEGGETT SALES CO., INC., New York, N. Y. Filed Dec. 9, 1929. Serial No. 293,485.

DeROSE

For Candy.
Claims use since February, 1929.

269,803. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELTON D. KOHR, York, Pa., and Atlantic City, N. J. Filed Mar. 5, 1930. Serial No. 296,878.

Kohr's THE ORIGINAL Frozen Custard

For Frozen Custard.
Claims use since July 1, 1924.

269,804. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WILLYS-OVERLAND COMPANY, Toledo, Ohio. Filed Dec. 4, 1929. Serial No. 293,251.

FINGER-TIP CONTROL

For Electric Switches, Particularly Automobile Starting, Lighting, and Signal-Control Switches.
Claims use since Nov. 22, 1928.

269,805. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LEEDY MANUFACTURING CO. INC., Indianapolis, Ind. Filed Nov. 4, 1929. Serial No. 291,987.

Leedy

For Band and Orchestra Instruments and Supplies—viz, Drums, Snare Drums, Bass Drums, Drum Stands, Drum Pedals and Beaters, Drumheads, Drumsticks, Drum Slings, Drum Spurs, Drumstick Holders, Drum-Hoop Adapters, Drum Snares, Drum Practice Pads, Snare-Drum Tone Controls, Drum Rods for Snare and Bass Drums, Drum Rods and Parts, Snare Strainers, Drum-Belt Hooks and Eyes, Drum Ropes, Drum Ears, Drum Racks, Drum Roller Cord Hooks, Base-Drum Carriages, Combined Drum Stand and Cymbal Holders, Cymbals, Cymbal Beaters, Cymbal Pads, Cymbal Hangers, Cymbal Holders, Cymbal Straps and Handle, Cymbal Pedals, Cymbal Sticks, Cymbal Sizzle Attachment, Trap Rails, Trap Consoles (Wheeled and Sliding) Trap Holders, Console Trap Holders, Cymbal and Tom-Tom and Gong Stands, Trap Trees, Trap-Tree Trap Holders, Trap Tables, Trap-Table Trap Holders, Tympani, Tympani Heads, Tympani Sticks, Tom-Toms, Tom-Tom Stands, Tom-Tom Heads, Temple Blocks, Temple-Block Stands, Temple-Block Holders, Rattles, Combination Holders for Traps, Cowbells, Cowbell Single Holders, Cowbell Double Holders, Triangles, Triangle Holders, Tambourines, Tambourine Holders, Tambourine Heads, Castanets, Slap Sticks, Jingle Clogs, Clog Mallets, Popguns, Anvils, Whistles, Chimes, Horns (Musettes), Song Whistles, Bird Whistles, Three-Tone Whistles, Wood Whistles (Cuckoo, Two-Tone Locomotive Whistle, Three-Tone Locomotive or Steamboat Whistle, Ocean Whistle); Mimical Instruments for Imitating a Rooster (Dunghill), Rooster (Shanghai), Rooster (Bantam), Hen Cackle, Peacock, Jay Bird, Baby Cry, Bob White, Also Duck Call, Cow Bawl, Dog Bark, and Comedy Howl; and Sleigh Bells, Locomotive and Fire Bell Plate, Locomotive Imitation, Horse Hoofs, Sand Blocks, Jazz Brushes, and Gong Sticks, Mallets for Bell Xylophones, Mallets for Marimba Xylophones, Parade Music Holders, Batons, Bugles, Trumpets, Fifes, Whistles (Drum Majors'), Musical Instruments in the Zylophone Class Having Metal Resonating Bars, Sole-Tone Bells, Standard Bells, Bell Stands, Folding Bell Stands, Tympani Pedals, Tympani Stands, Tympani Pitch Pipes, Xylophones, Xylophone Cases, Xylophone-Mallet Holders, Marimba Xylophones, Marimba Xylophone Mallets, Stands for Xylophones, Wheels for Xylophone Stands, Split Frames and Resonators for Xylophones, Xylophone Resonator Adjusters, Xylophone Legs (Adjustable), Xylophonettes, Chord Chimes, Chord-Chime Racks, Small Chimes, Cathedral Chimes, Chime Mallets, Studio Tuning Bars.
Claims use since Feb. 15, 1903.

269,806. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE EVERDY COMPANY, Frederick, Md. Filed Oct. 15, 1929. Serial No. 291,086.

SILENT



For Door Closers.
Claims use since Nov. 28, 1927.

269,807. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MODERN COAL BURNER COMPANY, Chicago, Ill. Filed Oct. 11, 1929. Serial No. 290,964.

MODERN

For Coal Burners and Coal-Feeding Attachments Therefor.
Claims use since Jan. 2, 1928.

269,808. (CLASS 37. PAPER AND STATIONERY.) WILLIAM H. APPLEBY, Newark, N. J. Filed July 26, 1929. Serial No. 287,687.

AD-TISSUE

For Toilet Paper in Rolls.
Claims use since on or about Dec. 1, 1928.

269,809. (CLASS 37. PAPER AND STATIONERY.) PORT HURON SULPHITE & PAPER CO., Port Huron, Mich. Filed June 20, 1929. Serial No. 285,883.

HURON FEATHERWEIGHT BOND

For Certain Named Writing and Printing Paper.
Claims use since Mar. 1, 1929.

269,810. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) PHILIP A. SINGER & BRO. INC., Newark, N. J. Filed June 15, 1929. Serial No. 285,642.

CERTIFIED
BALTIC SEAL
DYED CONEY
DE LUXE

For Dyed Rabbit Skins.
Claims use since January, 1929.

269,811. (CLASS 46. FOODS AND INGREDIENTS OF FOODS. PAUL SCHULZE BISCUIT COMPANY, Chicago, Ill. Filed Apr. 24, 1929. Serial No. 282,946.

MALTED GRAHAMS

For Crackers.
Claims use since February, 1929.

269,812. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ST. LOUIS SCREEN COMPANY, St. Louis, Mo. Filed Apr. 20, 1929. Serial No. 282,754.

ST. LOUIS SCREEN CO. INC

For Window Screens and Screen Doors.
Claims use since Jan. 1, 1929.

269,813. (CLASS 13. HARWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ALUMINUM GOODS MANUFACTURING CO., Manitowoc, Wis. Filed Mar. 29, 1929. Serial No. 281,539.

STURDY

For Aluminum Ware—Namely, Baking Dishes, Boilers for Cooking Foods, Cake Pans, Coffee Percolators, Coffeepots, Colanders, Combination Cookers, Combination Poacher, Steamer, and Fry Pans, Combination Roasters, Convex Kettles, Convex Saucepans, Convex Sauce Pots, Cooking Kettles, Covers, Dish Pans, Dish Driers, Double Boilers, Fry Pans, Kettles, Layer-Cake Pans, Lipped Fry Pans, Lipped Preserving Kettles, Lipped Saucepans, Lipped Sauce-pan Sets, Lipped-Stewpan Sets, Mixing Bowls, Mixing-Bowl Sets, Pans, Pie Plates, Pitchers, Preserving Kettles, Pudding Pans, Pudding-Pan Sets, Roasters, Soucepans, Sauce Pots, Skillets, Sink Strainers, Steamers, Stewpans, Strainers, Strainer Kettles, Strainer Pans, Teakettles, Tubed Cake Pans, Washbasins, Water Pitchers, and Windsor Kettles.
Claims use since Feb. 26, 1929.

269,814. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) THE MINING SAFETY DEVICE CO., Bowerston, Ohio. Filed Mar. 6, 1929. Serial No. 280,370.

NOLAN

For Mine-Equipment Goods Such as Automatic Car Stops and Feeders, Hand-Operated Cages, Hand-Operated Feeders, Semiautomatic Cages, Semiautomatic Feeders, Rotary Dumps, Cradle or Gravity Dumps, Switches, Landing Chairs, Retarders.
Claims use since Oct. 3, 1919.

269,815. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KOHLER COMPANY, Kohler, Wis. Filed Mar. 1, 1929. Serial No. 280,126.

SELKIRK

For Closet Bowls and Combinations.
Claims use since Feb. 11, 1929.

269,816. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KOHLER COMPANY, Kohler, Wis. Filed Mar. 1, 1929. Serial No. 280,124.

GRANADA

For Closet Bowls and Combinations.
Claims use since Feb. 11, 1929.

269,817. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KOHLER COMPANY, Kohler, Wis. Filed Mar. 1, 1929. Serial No. 280,123.

DORKING

For Closet Bowls and Combinations.
Claims use since Feb. 11, 1929.

269,818. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KOHLER COMPANY, Kohler, Wis. Filed Mar. 1, 1929. Serial No. 280,122.

DEVON

For Closet Bowls and Combinations.
Claims use since Feb. 11, 1929.

INTERNATIONAL TRADE-MARK REGISTRATIONS

The following International Registration has been received from the Bureau at Habana and has been placed upon the Register

269,819. International Registration No. 1,257 of October 31, 1929. Registered in Cuba on September 12, 1929, No. 48,171. Proprietor: AGUSTIN REYES Y GARCIA. Address: Dragones No. 104, Habana, Cuba.



Merchandise to which the mark is affixed.—Cologne Water, in Class 6, Chemicals, medicines, and pharmaceutical preparations. For the purposes of recording in the United States Patent Office, no claim is made to the exclusive right to use the words "Superieure," "Eau de Cologne," "Concentree," "Mise en Bouteilles par," "Parfumeur Distillateur," and "Extra Dry."

TRADE-MARK REGISTRATIONS RENEWED

34,295. GRASS, CLOVER AND FIELD SEEDS, AND SEED GRAINS. Registered March 6, 1900. THE ALBERT DICKINSON COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed March 6, 1930.

34,554. CERTAIN ARTICLES OF HARDWARE. Registered April 24, 1900. SIMMONS HARDWARE COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed April 24, 1930.

34,555. CERTAIN ARTICLES OF HARDWARE. Registered April 24, 1900. SIMMONS HARDWARE COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed April 24, 1930.

34,556. CERTAIN ARTICLES OF HARDWARE. Registered April 24, 1900. SIMMONS HARDWARE COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed April 24, 1930.

34,716. CERTAIN NAMED BAKERY PRODUCTS AND CONFECTIONERY. Registered May 29, 1900. PURITY CANDY COMPANY, Columbus, Ohio, a Corporation of Ohio. Renewed May 29, 1930.

34,754. A LUBRICANT. Registered June 5, 1900. JOSEPH DIXON CRUCIBLE COMPANY, Jersey City, N. J., a Corporation of New Jersey. Renewed June 5, 1930.

34,870. MIXED TEAS. Registered July 10, 1900. SAMUEL ZECHNOWITZ. Renewed July 10, 1930, to Consolidated Tea Company, Inc., New York, N. Y., assignee.

72,405. LEATHER BOOTS AND SHOES. Registered January 28, 1909. JOSEPH STRASBURGER CO. Renewed January 28, 1929, to United Shoe Chain, Inc., Washington, D. C., a Corporation of New Jersey, successor.

75,972. SACCHARIN. Registered November 30, 1909. SACCHARIN-FABRIK AKTIEN-GESELLSCHAFT VORM. FAHLBERG, LIST & CO., Salbke-Westerhusen, Germany. Renewed November 30, 1929, to Saccharin-Fabrik Aktiengesellschaft vorm. Fahlberg, List & Co., Magdeburg, Germany, a Corporation of Germany.

76,782. WHEAT FLOUR. Registered February 15, 1910. C. A. GAMBRILL MANUFACTURING COMPANY. Renewed February 15, 1930, to The Continental Milling Company, Baltimore, Md., a Corporation of Maryland, successor.

76,787. EXTRACT OF TAMARIND. Registered February 15, 1910. CARLO ERBA. Renewed February 15, 1930, to Carlo Erba, Società Anonima, Milan, Italy, a Corporation of Italy, assignee.

76,788. EXTRACT OF TAMARIND. Registered February 15, 1910. CARLO ERBA. Renewed February 15, 1930, to Carlo Erba, Società Anonima, Milan, Italy, a Corporation of Italy, assignee.

76,887. COTTON PIECE GOODS. Registered February 22, 1910. MANNHEIMER BROS., St. Paul, Minn., a Corporation of Minnesota. Renewed February 22, 1930.

76,892. PAINTS, VARNISHES, STAINS, AND FINISHES. Registered February 22, 1910. WILLIAM H. ROGERS, Houston, Tex. Renewed February 22, 1930.

76,901. WHEAT FLOUR. Registered February 22, 1910. C. A. GAMBRILL MANUFACTURING COMPANY. Renewed February 22, 1930, to The Continental Milling Company, Baltimore, Md., a Corporation of Maryland, successor.

76,974. MEDICINES AND TOILET PREPARATIONS. Registered March 1, 1910. MRS. NETTIE HARRISON Co. Renewed March 1, 1930, to McKesson-Langley-Michaels Company, Ltd., San Francisco, Calif., a Corporation of Delaware, assignee, by mesne assignments.

77,045. A SEMILIQUID SOAP. Registered March 1, 1910. THE REXINE CO., Sheboygan, Wis., a Corporation of Wisconsin. Renewed March 1, 1930.

77,052. WATCHCASES AND WATCH MOVEMENTS. Registered March 8, 1910. ILLINOIS WATCH CASE CO., Elgin, Ill., a Corporation of Illinois. Renewed March 8, 1930.

77,085. CANNED FRUITS AND CANNED VEGETABLES. Registered March 8, 1910. CALIFORNIA FRUIT CANNERS ASSOCIATION. Renewed March 8, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,086. CANNED FRUITS AND CANNED VEGETABLES. Registered March 8, 1910. CALIFORNIA FRUIT CANNERS ASSOCIATION. Renewed March 8, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,123. WHEAT FLOUR. Registered March 15, 1910. C. A. GAMBRILL MANUFACTURING COMPANY. Renewed March 15, 1930, to The Continental Milling Company, Baltimore, Md., a Corporation of Maryland, successor.

77,128. BACON. Registered March 15, 1910. FRED. ECKART PACKING COMPANY, Fort Wayne, Ind., a Corporation of Indiana. Renewed March 15, 1930.

77,137. BUTTER. Registered March 15, 1910. EDWIN PATTISON, Bloomington, Ill. Renewed March 15, 1930, to Pioneer Creamery Company, Galesburg, Ill., assignee.

77,171. CANNED VEGETABLES AND DRIED FRUITS. Registered March 15, 1910. CALIFORNIA FRUIT CANNERS ASSOCIATION. Renewed March 15, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,172. CANNED FRUITS. Registered March 15, 1910. CALIFORNIA FRUIT CANNERS ASSOCIATION. Renewed March 15, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,223. CANNED FRUIT. Registered March 22, 1910. CALIFORNIA FRUIT CANNERS ASSOCIATION. Renewed March 22, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,291. CANNED FRUITS AND CANNED VEGETABLES. Registered March 29, 1910. CALIFORNIA FRUIT CANNERS ASSOCIATION. Renewed March 29, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee.

77,347. CLOCKWORKS, WATCHCASES, AND CLOCK AND WATCH DIAL PLATES. Registered March 29, 1910. VEREINIGTE UHRENFABRIKEN VON GEBRÜDER JUNGHANS UND THOMAS HALLER A.-G. Renewed March 29, 1930, to Gebruder Junghans Aktiengesellschaft, Schramberg, Germany, a Corporation of Germany, by change of name.

77,348. CANNED TOMATOES, PEAS, CORN, PUMPKIN, SAUERKRAUT, HOMINY, AND BEANS. Registered March 29, 1910. THE WABASH CANNING COMPANY. Renewed March 29, 1930, to Wabash Canning Corporation, Wabash, Ind., a Corporation of Indiana, successor.

77,449. STUFFING-BOX AND MACHINERY GREASE. Registered April 12, 1910. FEODOR BURGMANN, Dresden-Laubegast, Germany. Renewed April 12, 1930.

77,596. GLOVES. Registered April 19, 1910. JULIUS KAYSER & COMPANY. Renewed April 19, 1930, to Julius Kayser & Co., New York, N. Y., a Corporation of New York, by merger.

77,653. DIETETIC FOOD FOR CHILDREN, ADULTS, INVALIDS, AND DYSPEPTICS. Registered April 26, 1910. R. KUFEKE, Bergedorf, near Hamburg, Germany. Renewed April 26, 1930.

77,846. ALE, BEER, PORTER, AND STOUT. Registered May 10, 1910. T. B. HALL & Co. LTD., Liverpool, England, a Corporation of Great Britain. Renewed May 10, 1930.

78,032. SOAP. Registered May 24, 1910. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn., a Corporation of Connecticut. Renewed May 24, 1930.

78,038. ROLLED OATS AND OATMEAL. Registered May 24, 1910. F. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo., a Corporation of Illinois. Renewed May 24, 1930.

78,040. CERTAIN ALCOHOLIC BEVERAGES. Registered May 24, 1910. M. B. FOSTER & SONS, LIMITED. Renewed May 24, 1930, to M. B. Foster & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

78,162. GRASS SEEDS, GARDEN SEEDS, AND SEED GRAINS. Registered May 31, 1910. CARGILL ELEVATOR CO. Renewed May 31, 1930, to Minneapolis Seed Company, Minneapolis, Minn., a Corporation of Minnesota, assignee.

78,210. BRUSHES. Registered May 31, 1910. ALFRED H. SMITH CO., New York, N. Y., a Corporation of New York. Renewed May 31, 1930.

78,376. SEED GRAINS, GRASS SEEDS, AND GARDEN SEEDS. Registered June 7, 1910. CARGILL ELEVATOR CO. Renewed June 7, 1930, to Minneapolis Seed Company, Minneapolis, Minn., a Corporation of Minnesota, assignee.

78,377. SEED GRAINS, GRASS SEEDS, AND GARDEN SEEDS. Registered June 7, 1910. CARGILL ELEVATOR CO. Renewed June 7, 1930, to Minneapolis Seed Company, Minneapolis, Minn., a Corporation of Minnesota, assignee.

78,475. SOAP. Registered June 14, 1910. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn., a Corporation of Connecticut. Renewed June 14, 1930.

78,505. SMOKED SHORE HADDOCK. Registered June 21, 1910. FREEMAN & COBB CO. Renewed June 21, 1930, to John R. Neal Company, doing business as Freeman & Cobb Company, Boston, Mass., a Corporation of Massachusetts, successor.

78,566. BITUMINOUS WATERPROOF ROOFING SHEETS. Registered June 28, 1910. THE BARBER ASPHALT PAVING COMPANY. Renewed June 28, 1930, to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia, by change of name.

78,575. COTTON PIECE GOODS. Registered June 28, 1910. BLISS, FABYAN & COMPANY. Renewed June 28, 1930, to Bliss, Fabyan & Co. Inc., Boston, Mass., a Corporation of Massachusetts, assignee.

78,642. SILVER-PLATED WARE. Registered June 28, 1910. WM. A. ROGERS, LIMITED, New York and Niagara Falls, N. Y. Renewed June 28, 1930, to Oneida Community Limited, Oneida, N. Y., a Corporation of New York, assignee.

78,651. METALLIC GRINDING BODIES. Registered June 28, 1910. F. L. SMIDTH & Co., Jersey City, N. J., and New York, N. Y. Renewed June 28, 1930, to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey.

78,675. PAPER, ENVELOPS, TABLETS, AND BLANK BOOKS. Registered July 5, 1910. J. C. BLAIR COMPANY, Huntingdon, Pa. Renewed July 5, 1930, to Western Tablet & Stationery Corporation, Dayton, Ohio, a Corporation of Delaware, assignee.

78,869. WHEAT FLOUR. Registered July 19, 1910. THE DAVIS MILLING COMPANY, St. Joseph, Mo. Renewed July 19, 1930, to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey, assignee by mesne assignments.

78,974. WATCHCASES. Registered July 26, 1910. ILLINOIS WATCH CASE COMPANY, Elgin, Ill., a Corporation of Illinois. Renewed July 26, 1930.

79,039. WHEAT FLOUR. Registered August 2, 1910. THE DAVIS MILLING COMPANY, St. Joseph, Mo. Renewed July 19, 1930, to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey, assignee by mesne assignments.

79,110. FUNNELS. Registered August 9, 1910. DOVER STAMPING AND MANUFACTURING COMPANY. Renewed August 9, 1930, to Dover Stamping & Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts, assignee.

79,191. WRAPPING PAPER. Registered August 16, 1910. CROWN-COLUMBIA PULP AND PAPER CO. Renewed August 16, 1930, to Crown Willamette Paper Company, San Francisco, Calif., a Corporation of Delaware, assignee by mesne assignments.

79,286. WROUGHT-STEEL BUTT HINGES. Registered August 16, 1910. THE STANLEY WORKS, New Britain, Conn., a Corporation of Connecticut. Renewed August 16, 1930.

79,282. CANNED FRUITS AND CANNED VEGETABLES. Registered August 23, 1910. HUDSON & Co., Mattituck, N. Y. Renewed August 23, 1930, to Hudson & Company, Holley, N. Y., a Corporation of New York.

79,288. COOKING AND HEATING STOVES AND RANGES. Registered August 23, 1910. A. J. LINDEMANN & HOVERSON COMPANY, Milwaukee, Wis., a Corporation of Wisconsin. Renewed August 23, 1930.

79,315. TOILET WATER. Registered August 23, 1910. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn., a Corporation of Connecticut. Renewed August 23, 1930.

79,318. CERTAIN TOILET ARTICLES. Registered August 30, 1910. THE BALDWIN PERFUMERY CO., Chicago, Ill., a Corporation of Illinois. Renewed August 30, 1930.

79,326. CANNED SALMON. Registered August 30, 1910. DEMING & GOULD CO., Chicago, Ill. Renewed August 30, 1930, to Deming & Gould, South Bellingham, Wash., a Corporation of Illinois.

79,370. ICE-CREAM LADLES. Registered August 30, 1910. WILLIAM ROSS, Troy, N. Y. Renewed August 30, 1930.

79,371. ICE-CREAM LADLES. Registered August 30, 1910. WILLIAM ROSS, Troy, N. Y. Renewed August 30, 1930.

79,434. PAINTS, VARNISHES, OILS, TURPENTINE, AND DRIERS. Registered September 6, 1910. LONGMAN & MARTINEZ, New York, N. Y. Renewed September 6, 1930, to Longman & Martinez, Brooklyn, N. Y.

79,440. FELT HATS. Registered September 6, 1910. MOSSANT, VALLON & ARGOD, Bourg-de-Peage, France. Renewed September 6, 1930.

LABELS

REGISTERED APRIL 15, 1930

37,329.—*Title:* RADIO. For Talking-Machine Records. CAMEO RECORD CORPORATION, New York, N. Y. Published April 25, 1929.

37,330.—*Title:* CLIMALENE. For a Preparation Used as a Cleanser, Water Softener, and Soap Saver. THE CLIMALENE COMPANY, Canton, Ohio. Published December 21, 1929.

37,331.—*Title:* THE NUMBER. For Candy. EUGENE DAVIDSON, doing business as The Number Candy Co., Washington, D. C. Published March 12, 1930.

37,332.—*Title:* SMOOTH TO THE LAST INCH. For Gauze Bandages. THE DRANE PLASTER CO., Yonkers, N. Y. Published January 6, 1930.

37,333.—*Title:* DIXO. For Cleaning Fluid. DIXO COMPANY, Newark, N. J. Published September 22, 1920.

37,334.—*Title:* DUFFYETS. For Confection. JOHN A. DUFFY, doing business as Duffy Pure Malt Products Company, Sioux City, Iowa. Published January 15, 1929.

37,335.—*Title:* FIRESIDE BISCUITS. For Biscuits. GARDNER BAKING CO., Madison, Wis. Published March 27, 1929.

37,336.—*Title:* CLEARSKIN. For Face Cream. BENJAMIN B. GOLDENBERG, New York, N. Y. Published February 5, 1929.

37,337.—*Title:* AUTO POLISH. For Polish for Automobile and Furniture. LAKE WOODS AUTO POLISH CO., Los Angeles, Calif. Published March 27, 1930.

37,338.—*Title:* ICE CREAM. For Ice Cream. THE MENASHA PRODUCTS CO., Chicago, Ill. Published December 20, 1929.

37,339.—*Title:* LAMP. For Tomatoes. MERCEDES CO-OPERATIVE ASSOCIATION, Mercedes, Tex. Published November 12, 1929.

37,340.—*Title:* SHRUNK-PROOF. For Caps. PERLMAN BROTHERS, New York, N. Y. Published July 15, 1929.

37,341.—*Title:* POMPANO BRAND FLORIDA TOMATOES. For Tomatoes. POMPANO VEGETABLE GROWERS, INC., Pompano, Fla. Published February 24, 1930.

37,342.—*Title:* POMPANO BRAND FLORIDA PEPPERS. For Peppers. POMPANO VEGETABLE GROWERS, INC., Pompano, Fla. Published February 24, 1930.

37,343.—*Title:* GENUINE GRAIN DEER GLOVES. For Gloves. J. HOWARD SCHNEIDER, doing business as Schneider Printing Company, Palmyra, Pa. Published March 8, 1930.

37,344.—*Title:* POWDO ORANGE JUICE COMPOUND. For Orange-Juice Compound. SCIENTIFIC FOODS CORPORATION, Chicago, Ill. Published February 1, 1930.

37,345.—*Title:* HAIRLENE. For a Preparation for the Hair and Scalp. CHARLES SHEPARD, Boston, Mass. Published May 12, 1929.

37,346.—*Title:* SNOW CRUSH. For Sacks of Flour. VAN BROCKLIN BROS., Memphis, Tenn. Published November 20, 1929.

37,347.—*Title:* EVENOL. For Oils. EUGENE VELLNER, Philadelphia, Pa. Published March 15, 1929.

PRINTS

REGISTERED APRIL 15, 1930

12,476.—*Title:* THE WALLET INAUGURATES A NEW ERA IN CIGARETTE CONTAINER HISTORY. For Cigarette Containers. C & H PRODUCTS CO., Cincinnati, Ohio. Published January 28, 1930.

12,477.—*Title:* ROUND RED CHEEKS AND BRIGHT BLUE EYES FOR LITTLE CHARLES VAN RENSSELAER, III. For Wheat Breakfast Food. THE CREAM OF WHEAT CORPORATION, Minneapolis, Minn. Published March 10, 1930.

12,478.—*Title:* DARN QUICK SAVES HOSE 'DARN QUICK'. For Mending Preparation for Hosiery. CLARA DUTTON, doing business as Ye What Not Studio, Burlington, Iowa. Published February 22, 1930.

12,479—*Title:* ANNOUNCING—A NEW HELP IN SOLVING THE HOUSEWIVES PROBLEMS. For Heins 57 Varieties. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published January 11, 1930.

12,480.—*Title:* KRAMO CAPS. For Bottle Caps. KRAMO MANUFACTURING CORPORATION, Philadelphia, Pa. Published January 20, 1930.

12,481.—*Title:* OSTERMOOR. For Mattresses. OSTERMOOR & Co. INC., New York, N. Y. Published January 6, 1930.

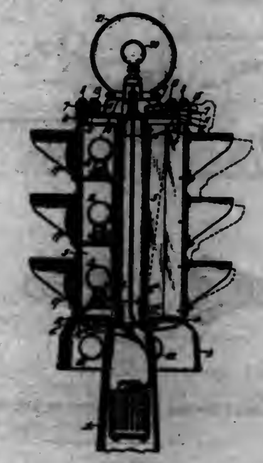
12,482.—*Title:* APPLESAUCE. For Candy Bars. WALTER W. SHAW, Winnipeg, Canada. Published July 6, 1929.

12,483.—*Title:* THE MARK OF A SKILLED REBUILDER. For Soles and Heels. UNITED STATES RUBBER COMPANY, New York, N. Y. Published February 18, 1930.

REISSUES

APRIL 15, 1930

17,642. TRAFFIC SIGNAL. PAUL P. HORNI, Newark, N. J. Filed Nov. 12, 1929. Serial No. 406,691. Original No. 1,728,762, dated Sept. 17, 1929, Serial No. 153,618, filed Dec. 9, 1926. 8 Claims. (Cl. 177—329.)



1. A traffic signal comprising a lantern support, a group of a plurality of signal lanterns spaced around said support in a common horisontal plane, all of the lanterns of said group being mounted upon independent vertical axes upon said support and adjustable relatively upon said axes to project the light rays of any two adjacent lanterns in any desired angular relation to each other between parallelism in the same or opposite directions.

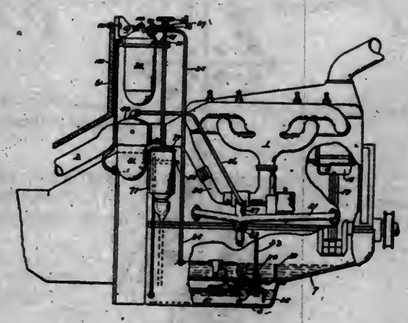
17,643. HEAT-TREATING APPARATUS FOR PACKAGED GOODS. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Dec. 10, 1924. Serial No. 755,118. Original application filed June 7, 1921, Serial No. 475,643. Divided and application filed May 16, 1928, Serial No. 639,438. Original No. 1,498,765, dated June 24, 1924. 11 Claims. (Cl. 126—272.)

1. An apparatus for heat treating packaged goods comprising a heating shell having an inlet and an outlet; a helically directed fixed rail within the shell about the inner surface of its periphery; a rotatable reel within the shell having a peripheral series of rails parallel with the reel axis and coacting with the helically directed rail to form a path for conducting the goods through the shell from the inlet to the outlet; an imperforate cross plate carried by and within the reel and rotating therewith, said plate dividing the reel into successive com-



partments communicating through the goods path; and means for maintaining different temperatures in each compartment.

17,644. PROCESS OF AND APPARATUS FOR THE CONTINUOUS REFINING OF LUBRICATING OILS OF INTERNAL-COMBUSTION ENGINES. FRED W. MANNING, Berkeley, Calif., assignor, by direct and mesne assignments, to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 27, 1920. Serial No. 410,272. Original No. 1,729,746, dated Oct. 1, 1929, Serial No. 147,481, filed Nov. 10, 1926. 16 Claims. (Cl. 210—138.)

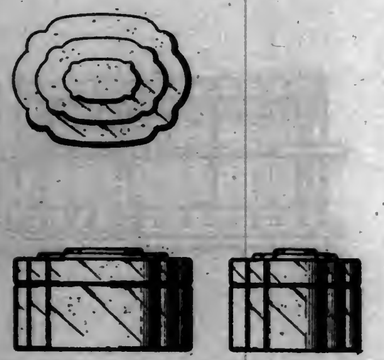


11. The combination of a reservoir for liquid to be filtered, a magazine filter containing a reserve of filter material, said magazine filter connected to receive liquid from said reservoir, and means operable to permit new liquid to be introduced into the reservoir and simultaneously cause the contaminated filter material to be removed.

DESIGNS

APRIL 15, 1930

80,933. JAR OR SIMILAR RECEPTACLE. NEAL R. ANDREWS, New York, N. Y., assignor to Marinello Company, New York, N. Y., a Corporation of New York. Filed Jan. 27, 1930. Serial No. 34,309. Term of patent 7 years.



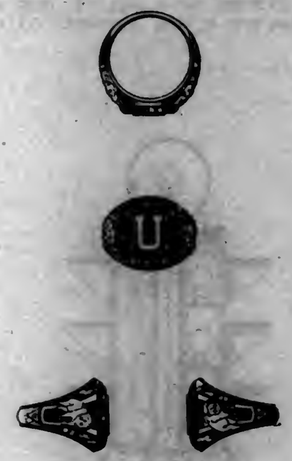
The ornamental design for a jar or similar receptacle substantially as shown and described.

80,934. LAMP OR SIMILAR ARTICLE. CHESTER A. BACHMAN, Los Angeles, Calif. Filed Jan. 14, 1930. Serial No. 34,129. Term of patent 7 years.



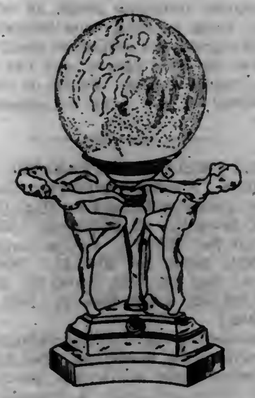
The ornamental design for a lamp or similar article as shown.

80,935. RING. ARTHUR A. CONSTABEL, Norristown, Pa., assignor to The Bailey, Banks & Biddle Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1930. Serial No. 34,274. Term of patent 7 years.



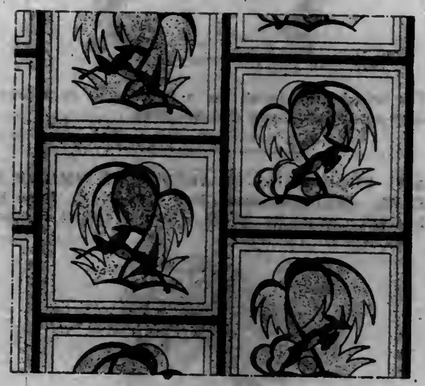
The ornamental design for a ring, as shown.

80,936. TABLE LAMP OR ARTICLE OF SIMILAR NATURE. PAUL CRICCHIO, New York, N. Y., assignor to Wrought Iron & Art Glass Fixture Co., Inc., New York, N. Y. Filed Jan. 30, 1930. Serial No. 34,346. Term of patent 8½ years.



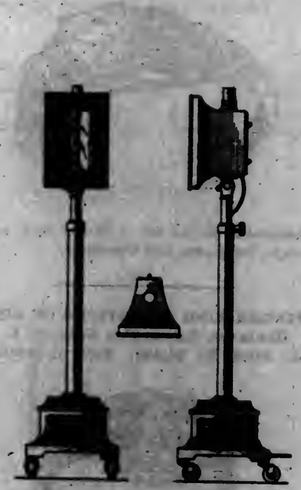
The ornamental design for a table lamp or article of similar nature, as shown.

80,937. TEXTILE FABRIC. ALBERT DE ROSE, Paris, France, assignor to Cheney Brothers, South Manchester, Conn., a Corporation of Connecticut. Filed Feb. 1, 1930. Serial No. 34,875. Term of patent 14 years.



The ornamental design for a textile fabric, as shown and described.

80,938. LAMP. ANTHONY DI LUCCI, Chicago, Ill., assignor to Applied Research, Inc., Chicago, Ill., a Corporation of Illinois. Filed July 29, 1929. Serial No. 32,241. Term of patent 14 years.



The ornamental design for a lamp, substantially as shown.

80,939. NOVELTY DOLL. ZOE B. FITCHNER, Tallahassee, Fla. Filed Jan. 2, 1930. Serial No. 33,992. Term of patent 7 years.



The ornamental design for a novelty doll, as shown.

80,940. RADIOCABINET. LOUIS FRANCIS, Asheville, N. C., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1929. Serial No. 31,420. Term of patent 8½ years.



The ornamental design for a radiocabinet substantially as shown and described.

80,941. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Jan. 30, 1930. Serial No. 34,344. Term of patent 8½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,942. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Jan. 30, 1930. Serial No. 34,345. Term of patent 3½ years.



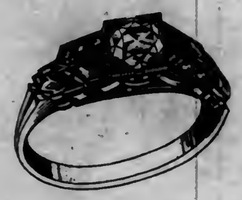
The ornamental design for a finger ring or article of similar nature, as shown and described.

80,943. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,474. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,944. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,475. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,945. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,476. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,946. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,477. Term of patent 3½ years.



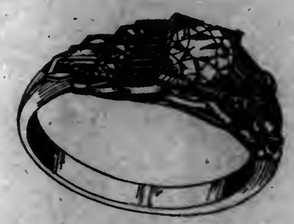
The ornamental design for a finger ring or article of similar nature, as shown and described.

80,947. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,478. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,948. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,479. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,949. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,480. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,950. FINGER RING OR ARTICLE OF SIMILAR NATURE. BENJAMIN GROSS, New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,481. Term of patent 3½ years.



The ornamental design for a finger ring or article of similar nature, as shown and described.

80,951. TAG. HORACE EDWIN HOBBS, London, England. Filed Nov. 16, 1929. Serial No. 33,473. Term of patent 14 years.





The ornamental design for a tag, as shown.

80,952. WALL BRACKET OR SIMILAR ARTICLE. OTTO HOFFMANN, Woodhaven, N. Y., assignor to Art Fixtures, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1930. Serial No. 34,222. Term of patent 3½ years.



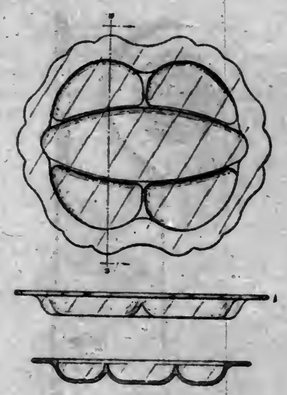
The ornamental design for a wall bracket, or similar article as shown.

80,953. GLOBE HOLDER FOR LIGHTING FIXTURES OR SIMILAR ARTICLES. GEORGE HOCH, New York, N. Y., assignor to Star Chandelier Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 28, 1930. Serial No. 34,317. Term of patent 3½ years.



The ornamental design for a globe holder for lighting fixtures, or similar articles, as shown.

80,954. GLASS RELISH TRAY OR SIMILAR ARTICLE. JESS CLAIR KELLY, Cambridge, Ohio, assignor to The Cambridge Glass Co., Cambridge, Ohio, a Corporation of Ohio. Filed Jan. 10, 1930. Serial No. 34,083. Term of patent 7 years.



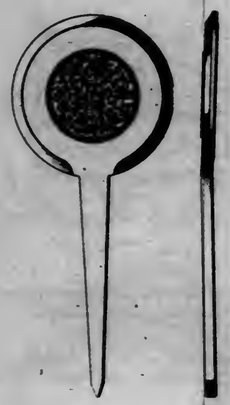
The ornamental design for a glass relish tray or similar article, substantially as shown.

80,955. VIBRATING-MACHINE CASING. JOHN H. HOLM and LUTHER B. HOLM, Kenosha, Wis., assignors to Holm's Manufacturing Company, Kenosha, Wis., a Corporation of Wisconsin. Filed Nov. 4, 1929. Serial No. 33,335. Term of patent 14 years.



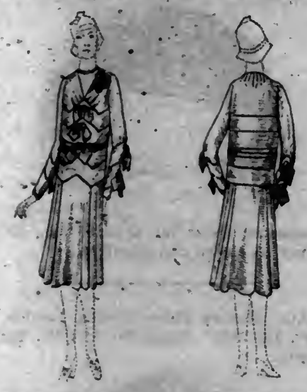
The ornamental design for a vibrating machine casing as shown.

80,956. MIRROR OR SIMILAR ARTICLE. EDWIN B. LANGSDORF, New York, N. Y. Filed Jan. 29, 1930. Serial No. 34,333. Term of patent 3½ years.



The ornamental design for a mirror or similar article substantially as shown.

80,957. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 12, 1930. Serial No. 34,512. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

80,958. ENSEMBLE SUIT. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 12, 1930. Serial No. 34,514. Term of patent 3½ years.



The ornamental design for an ensemble suit substantially as shown and described.

80,959. DRESS. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 12, 1930. Serial No. 34,516. Term of patent 3½ years.



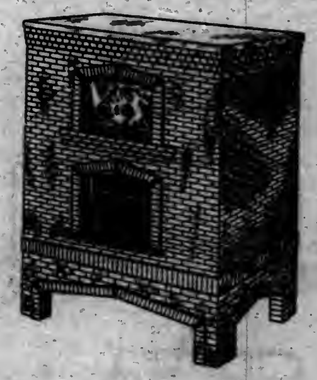
The ornamental design for a dress substantially as shown and described.

80,960. COAT. DOROTHY LONG, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 12, 1930. Serial No. 34,520. Term of patent 3½ years.



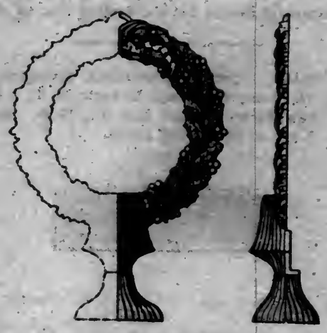
The ornamental design for a coat substantially as shown and described.

80,961. RADIOCABINET. LUDWIG LUXA and ALOIS A. PIMPER, Howell, Nebr. Filed Feb. 1, 1930. Serial No. 34,383. Term of patent 3½ years.



The ornamental design for a radio cabinet, as shown.

80,962. ELECTRIC LAMP. CHARLES W. LOGAN, Kenmore, N. Y. Filed July 15, 1929. Serial No. 32,053. Term of patent 3½ years.



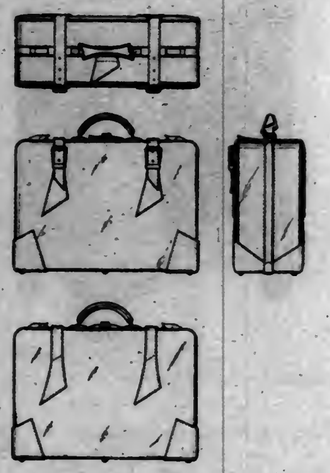
The ornamental design for an electric lamp, substantially as shown and described.

80,963. SHOE. CHARLES MORALI, New York, N. Y., assignor to Delman, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 24, 1929. Serial No. 33,908. Term of patent 3½ years.



The ornamental design for a shoe as shown.

80,964. TRAVELING BAG. STEPHAN PODMAYER, St. Louis, Mo., assignor to Stability Leather Goods Mfg. Co., St. Louis, Mo. Filed Feb. 4, 1929. Serial No. 29,913. Term of patent 14 years.



The ornamental design for a traveling bag, as shown.

80,965. CHAIN. EUGEN PRESTINARI, Irvington, N. J., assignor to Gemex Company, Newark, N. J., a Corporation of New Jersey. Filed Jan. 15, 1930. Serial No. 34,141. Term of patent 3½ years.



The ornamental design for chain, substantially as shown.

80,966. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Dec. 23, 1929. Serial No. 33,900. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

80,967. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Dec. 23, 1929. Serial No. 33,901. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

80,968. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Dec. 23, 1929. Serial No. 33,903. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

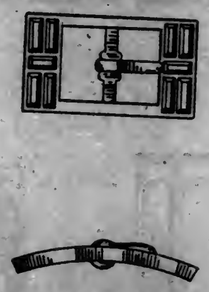
80,969. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Dec. 23, 1929. Serial No. 33,904. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

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80,970. SHOE BUCKLE. ORLANDO RICHARD RECCHIA, Cranston, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Dec. 23, 1929. Serial No. 33,905. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

80,971. BOWL OR SIMILAR ARTICLE. GEORGE SAKIER, New York, N. Y. Filed Nov. 15, 1929. Serial No. 33,451. Term of patent 14 years.



The ornamental design for a bowl or similar article, as shown.

80,972. SHERBET OR SIMILAR ARTICLE. GEORGE SAKIER, New York, N. Y. Filed Nov. 15, 1929. Serial No. 33,452. Term of patent 14 years.



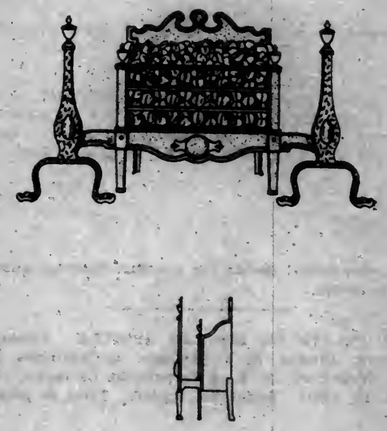
The ornamental design for a sherbet or similar article, as shown.

80,973. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Feb. 5, 1930. Serial No. 34,411. Term of patent 3½ years.



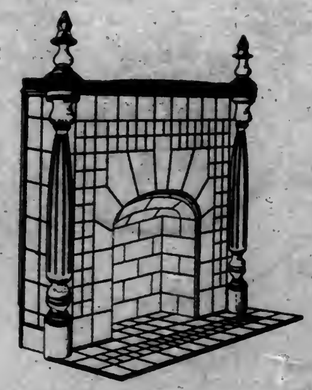
The ornamental design for embroidered lace edging, as shown.

80,974. GAS HEATER. WILLIAM L. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio, a Corporation of Ohio. Filed Feb. 6, 1930. Serial No. 34,433. Term of patent 7 years.



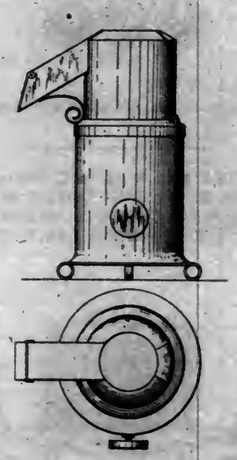
The ornamental design for a gas heater, as shown.

80,975. MANTEL. STANLEY E. SLOSS, Louisville, Ky. Filed Feb. 26, 1930. Serial No. 34,656. Term of patent 14 years.



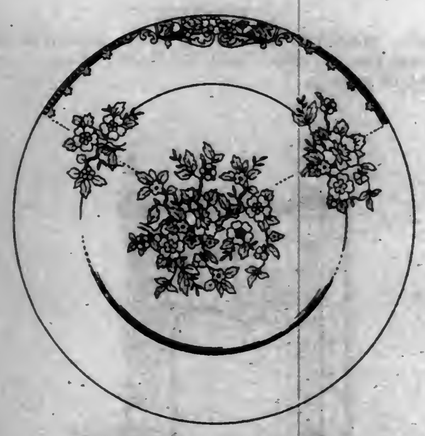
The ornamental design for a mantel, as shown.

80,976. SUGAR DISPENSER. ALEXANDER N. TSEIFF, Los Angeles, Calif. Filed May 27, 1929. Serial No. 31,428. Term of patent 7 years.



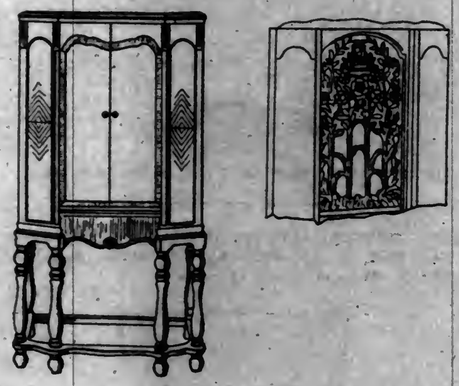
The ornamental design for a sugar dispenser substantially as shown.

80,977. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 14, 1929. Serial No. 29,616. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

80,978. RADIOCABINET OR SIMILAR ARTICLE. EVERETT WORTHINGTON, Chicago, Ill., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 29, 1929. Serial No. 33,575. Term of patent 3½ years.



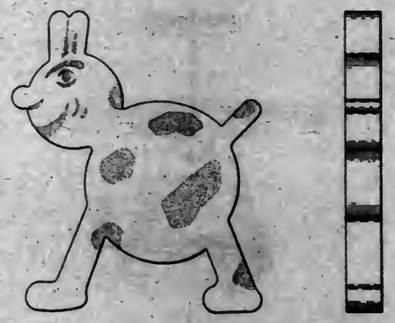
The ornamental design for a radio cabinet or similar article as shown.

80,979. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,948. Term of patent 3½ years.



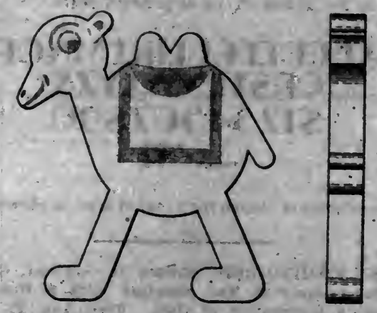
The ornamental design for a toy figure as shown.

80,980. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,949. Term of patent 3½ years.



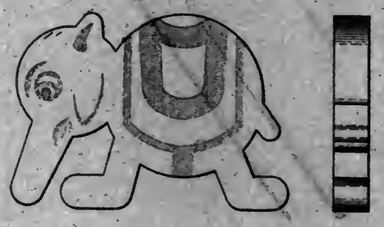
The ornamental design for a toy figure as shown.

80,981. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,950. Term of patent 3½ years.



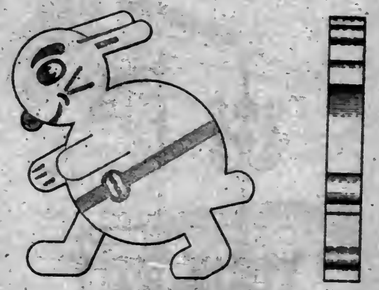
The ornamental design for a toy figure as shown.

80,982. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,951. Term of patent 3½ years.



The ornamental design for a toy figure as shown.

80,983. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,952. Term of patent 3½ years.



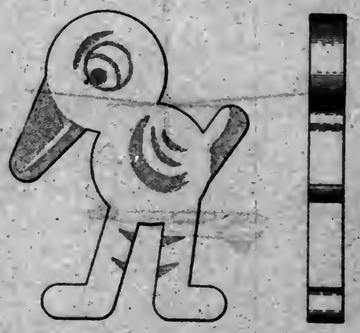
The ornamental design for a toy figure as shown.

80,984. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,953. Term of patent 3½ years.



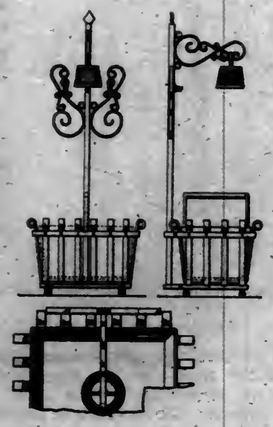
The ornamental design for a toy figure as shown.

80,985. TOY FIGURE. PAUL M. WEAMER, Gladwyne, Pa., assignor to Lee Rubber & Tire Corporation, Conshohocken, Pa., a Corporation of New York. Filed Dec. 27, 1929. Serial No. 33,954. Term of patent 3½ years.



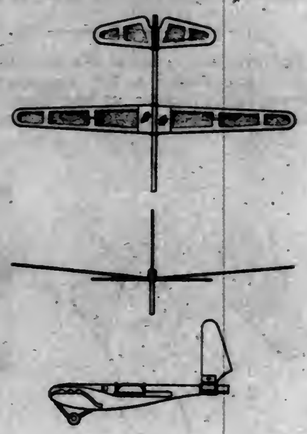
The ornamental design for a toy figure as shown.

80,986. COMBINED FUEL BASKET, FIRE-TOOL SUPPORT, AND FLOOR LAMP. SAM P. WHIDDEN, Bartow, Fla. Filed Jan. 28, 1930. Serial No. 34,316. Term of patent 7 years.



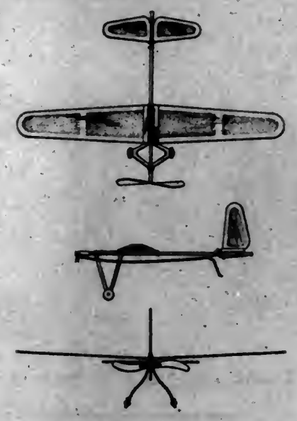
The ornamental design for a combined fuel basket, fire tool support and floor lamp or the like substantially as shown.

80,987. TOY GLIDER. EDWARD B. WILDER, St. Louis, BRYDON BERTRAM BAKER, University City, and WENTWORTH WILDER, St. Louis, Mo., assignors to Wilder Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 13, 1930. Serial No. 34,113. Term of patent 7 years.



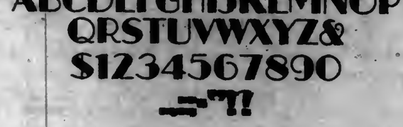
The ornamental design for a toy glider, substantially as shown.

80,988. TOY GLIDER. EDWARD B. WILDER, St. Louis, BRYDON BERTRAM BAKER, University City, and WENTWORTH WILDER, St. Louis, Mo., assignors to Wilder Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 13, 1930. Serial No. 34,114. Term of patent 7 years.



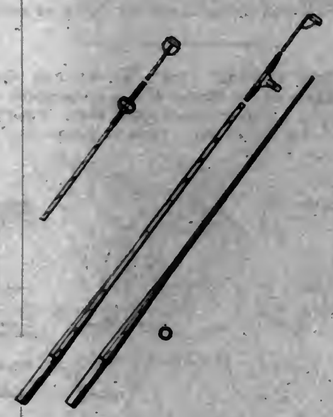
The ornamental design for a toy glider, substantially as shown.

80,989. FONT OF TYPE. JOHN W. ZIMMERMAN, Chicago, Ill., assignor to Barnhart Brothers & Spindler, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 10, 1928. Serial No. 29,210. Term of patent 7 years.



The ornamental design for a font of type, as shown.

80,990. FISHING ROD. ROBERT H. COWDRAY, Geneva, Ohio, assignor to The American Fork & Hoe Company, a Corporation of Ohio. Filed Aug. 22, 1927. Serial No. 28,166. Term of patent 14 years.



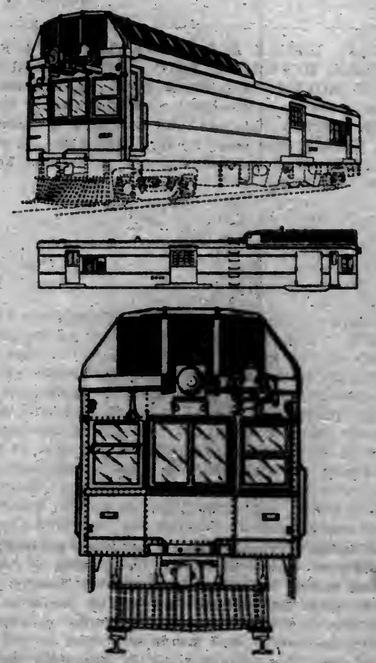
The ornamental design for a fishing rod, substantially as shown.

80,991. SAVINGS-BANK CLOCK CASE. HAROLD B. COLVIN, Port Chester, N. Y., assignor to Bankers Development Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1930. Serial No. 34,308. Term of patent 3½ years.



The ornamental design for a savings-bank clock case as shown.

80,992. COMBINATION RAILWAY CAR AND STEAM LOCOMOTIVE. CLYDE B. FAVERTY, Hammond, Ind., assignor to Railway Locomotor Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 3, 1929. Serial No. 32,644. Term of patent 7 years.

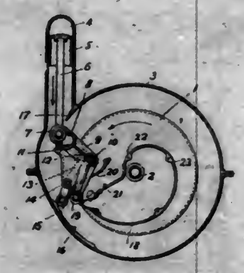


The ornamental design for a combination railway car and steam locomotive as shown.

PATENTS

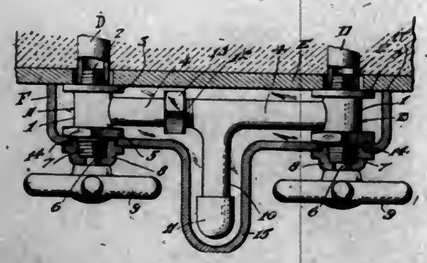
GRANTED APRIL 15, 1930

1,754,216. DEVICE FOR TRANSFORMING A RECTILINEAR MOVEMENT INTO A CONTINUOUS ROTARY MOVEMENT. EMILE BOUILLON, Brussels, Belgium, assignor of one-third to Walter George Tarrant, Byfleet, Surrey, England, and one-third to Robert Allen, Chiltern Rise, near Reading, England. Filed Feb. 25, 1928, Serial No. 257,031, and in Belgium Feb. 25, 1927. 13 Claims. (Cl. 74—14.)



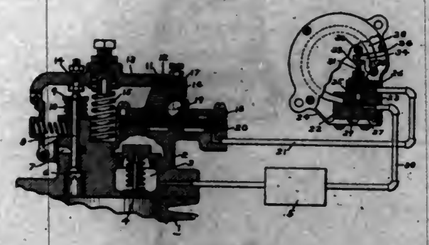
1. A device for transforming a rectilinear movement into a continuous rotary movement, comprising a rotatably mounted wheel, a piston, a rod carried thereby, means whereby upon the reciprocation of the piston said rod will engage said wheel tangentially thereof to impart rotary motion thereto, and means connected to the piston rod and controlled by said wheel for regulating the idling movement of the piston.

1,754,217. MIXING-FAUCET FIXTURE. NATHAN AUGUST, Jr., Newark, N. J. Filed Mar. 16, 1927. Serial No. 175,792. 2 Claims. (Cl. 187—111.)



1. In a plumbing fixture, the combination with a support having a plurality of fittings projecting therefrom and formed with operating stems, of a housing having an open side to slip over all of said fittings with the edges of said open side abutting said support and formed with openings one to receive each of said stems so that said fittings are wholly enclosed by said housing and said stems project through said openings from the housing, and operating handles on said stems, said housing having fastening lugs on its interior and certain of said fittings having fastening lugs to cooperate and separably held by action of gravity in engagement with the first-mentioned lug on said housing for holding said housing in position to enclose said fittings.

1,754,218. COMPRESSOR-UNLOADER GOVERNOR. BURTON S. AIKMAN, Milwaukee, Wis., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 31, 1928. Serial No. 281,807. 7 Claims. (Cl. 230—30.)



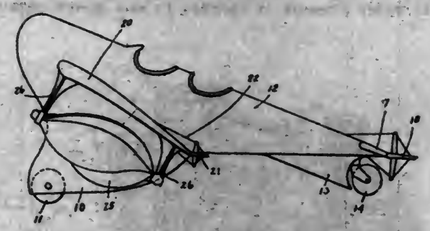
1. The combination with a fluid compressor unloading device having a movable abutment operated by an increase in fluid under pressure for unloading the compressor, of a governor comprising a Bourdon tube subject to the pressure of fluid compressed by the compressor, valve means for controlling the fluid pressure on said abutment, and a member carried by said tube for engaging said valve means, the resiliency of the tube urging said valve means in one direction and the expansion of the tube by fluid under pressure urging said member away from said valve means.

1,754,219. WALL-PAPERING IMPLEMENT. CHARLES D. ALEXANDER, Omaha, Nebr. Filed June 27, 1928. Serial No. 288,738. 2 Claims. (Cl. 216—4.)



1. A wall papering implement comprising a prop having a cross bar at one end, and a strip arranged longitudinally on the cross bar and having its longitudinal edge serrated, said prop being of spring material so as to tensionally urge the strip against work.

1,754,220. HYDROAIRPLANE. JAMES R. BROWNE, Evansville, Ind. Filed June 18, 1928. Serial No. 286,091. 5 Claims. (Cl. 244—2.)



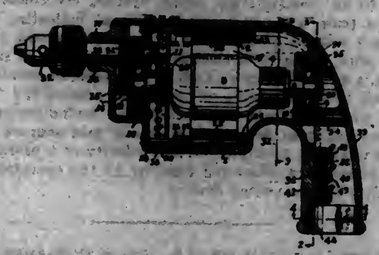
1. In a plane of the character described, the combination of a fuselage, a tapered and spiralled vaned propeller at each side of said fuselage and tapered rearwardly, and a wing construction extending outwardly, rearwardly and downwardly adjacent each of said propellers.

1,754,221. CAR-DOOR-LOCKING MEANS. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 2, 1925. Serial No. 27,362. 14 Claims. (Cl. 105—308.)



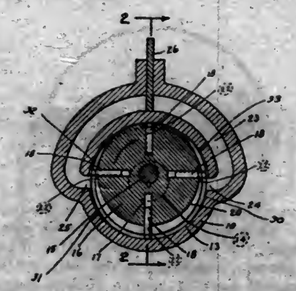
1. In a dump car, the combination with a dumping door having a beam extending adjacent the free edge thereof; of a fixed shouldered bracket on the car; a lever member on the door, said lever being pivotally connected to said beam and mounted to swing in a plane substantially parallel with the plane of the door and projecting beyond the door and adapted to engage the shouldered bracket to maintain the door in locked position, said lever being arranged to transmit the bearing stresses thereon to said beam; and a member pivotally mounted on the bracket for maintaining the lever in locked position beneath the door.

1,754,222. ELECTRIC DRILL. EDWIN L. CONNELL, Cleveland, Ohio, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 18, 1928. Serial No. 254,018. 9 Claims. (Cl. 172—36.)



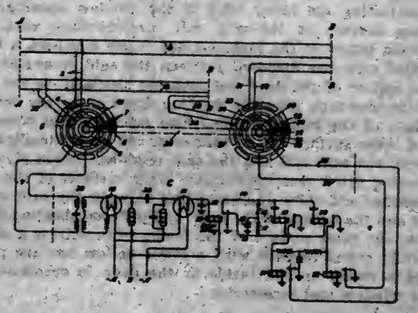
1. A portable motor tool, comprising a housing provided with brush holding members, brushes held by said members, a rotatable motor part mounted within said housing and cooperating with said brushes, and an operating spindle driven by said motor part, said housing in the transverse zone of said brush holding members being recessed to provide finger space.

1,754,223. HYDRAULIC BRAKE. MELVIN E. CROWELL, Franklin, Ind., and WILLIAM E. WHITE, Jr., Redlands, Calif. Filed Sept. 2, 1927, Serial No. 217,090. Renewed Sept. 20, 1929. 7 Claims. (Cl. 188—90.)



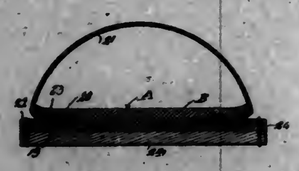
1. In combination a body including a cylindrical chamber, comprising two parallel side walls and a cylindrical outer wall, a cylindrical rotor member of less diameter than the chamber and of a width less than the width of said chamber and eccentrically mounted therein, said member and said chamber body having relative rotation therebetween, a plurality of movably mounted vanes supported by said member and engaging the cylindrical wall of the chamber, a shaft extending into the chamber and eccentrically positioned relative thereto and concentrically arranged relative to said member and rigidly connected thereto, a boss upon one flat side of said chamber and extending inwardly into the chamber therefrom and concentric with the cylindrical wall thereof, an annular plate centrally apertured for reception by said boss and of a width sufficient to be simultaneously engaged upon opposite sides by said cylindrical side wall and the rotor member side wall and terminating in a cylindrical periphery of a diameter slightly less than the cylindrical wall of the chamber for forming a cylindrical groove therewith and a laterally extending tongue upon each of said vanes and receivable by said groove for maintaining said vanes in substantial chamber contact in the relative rotation between the body and the member.

1,754,224. SIGNALING SYSTEM. JOHN DAVIDSON, Jr., Montclair, N. J., and DWIGHT L. MOODY, Hempstead, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 9, 1928. Serial No. 260,534. 11 Claims. (Cl. 179—41.)



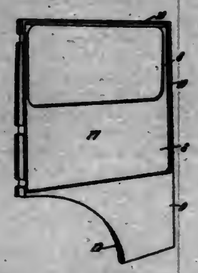
1. The combination of a plurality of operating circuits, a plurality of signaling devices individual to said operating circuits at a given point, a translating device located at said point separate and distinct from said individual signaling devices but adapted to operate in conjunction therewith, switching apparatus for successively connecting said translating device between each operating circuit and its corresponding individual signaling device.

1,754,225. SHOE FILLER. CHARLES C. EATON, Brockton, Mass., assignor, by mesne assignments, to Ernest A. Gray, Augusta, Me. Filed Dec. 30, 1926. Serial No. 158,046. 2 Claims. (Cl. 36—30.)



1. In a shoe, an inner sole having a depending attaching shoulder defining an interior pocket, a welt, an upper, means securing the welt and upper to the inner sole, and an outer wear sole connected to the welt, a filler comprising an integral sheet of sponge rubber disposed wholly in the pocket, and an adhesive connecting the sheet sponge rubber filler to the lower face of the inner sole, the said filler being marginally confined by said shoulder and having its lower face in the same plane as the lower face of the shoulder and engaged by the outer wear sole.

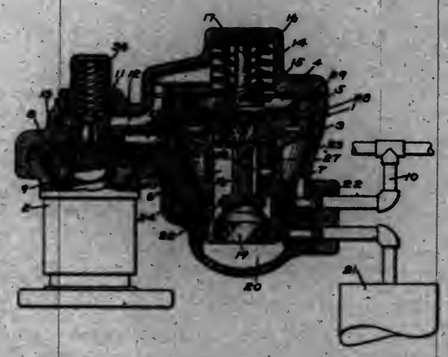
1,754,226. DOOR FOR VEHICLES. ERIC CECIL GORDON ENGLAND, Wembley, England, assignor to Gordon England (1929) Limited, Wembley, England. Filed June 19, 1928, Serial No. 286,629, and in Great Britain July 28, 1927. 5 Claims. (Cl. 296—44.)



1. A door of timber and plywood, comprising timber side frame members rabbeted on the inside, a cross-rail constituting the lower edge of the window opening, the inner surface of the said rail corresponding with the bottom ledges of the rabbeted side frame members, a horizontal cross-bar disposed between the said cross-rail and the bottom of the door and rabbeted similarly to the side frame members, plywood sheeting fitted on to the bottom ledges of the rabbeted side frame members and cross-bar and inner surface of the said cross-rail and extending between the said rail and the said cross-bar, other plywood sheeting fitted over the extreme inner surfaces of the said cross-bar and sides and extending between the said cross-bar and the bottom of the door, and plywood sheeting fitted over the outer surface of the frame to constitute a structurally complete door with a lower hollow box-like panel and a recess on the inside of the door to accommodate the window and accessories.

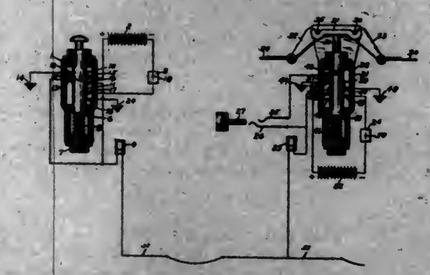
1,754,227. FEED-VALVE DEVICE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1926. Serial No. 153,824. 7 Claims. (Cl. 50—11.)

1. A feed valve device comprising a fluid pressure supply valve for supplying fluid under pressure to an outlet, a piston for operating said valve having a piston chamber at one side, a removable choke plug disposed axially in said piston and having a restricted port through which fluid under pressure is supplied to said piston chamber



from the chamber at the opposite side of said piston, and controlling means operated upon a reduction in fluid pressure at the outlet for venting fluid from said piston chamber.

1,754,228. ELECTRIC SIGNAL SYSTEM. CLYDE C. FARMER, Pittsburgh, and THOMAS H. THOMAS, Edgewood, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 8, 1927. Serial No. 224,866. 5 Claims. (Cl. 177—352.)

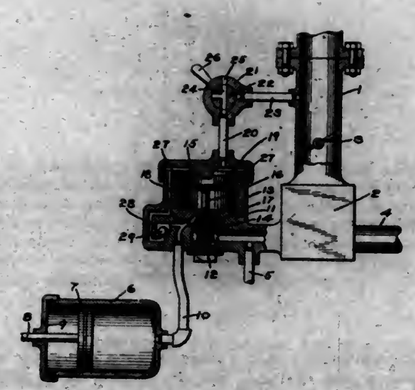


4. In an electric train signal system, the combination with a train wire, of an electric signal indicating device on each vehicle of the train and each connected to said train wire, a source of electric current on each of said vehicles, a switch device on each of said vehicles operative to connect the local source of current to ground and to said train wire to operate said devices, and means for preventing current from flowing from one of said sources to another when the terminals of like polarity of a plurality of said sources are connected together by the operation of a plurality of said switch devices.

1,754,229. VACUUM BRAKE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 14, 1928. Serial No. 254,197. 3 Claims. (Cl. 123—127.)

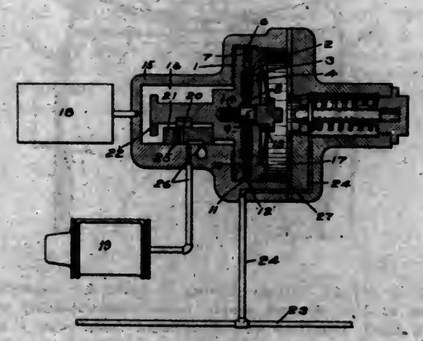
1. The combination with an element actuated by the reduced pressure in the intake manifold of an internal combustion engine for applying the brakes, of means for

connecting said element to the manifold, a member for controlling a communication for supplying motor fuel to



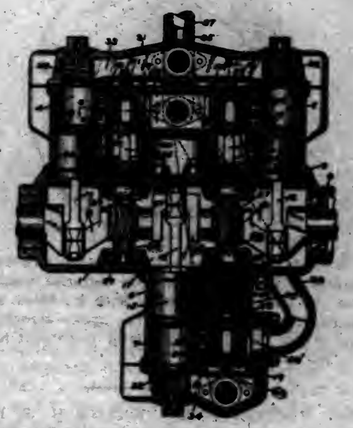
the air passing from said element to the manifold, and a piston operated by the reduced pressure in the manifold for actuating said member to open said communication.

1,754,230. PISTON AND PACKING RING. CLYDE C. FARMER and WILLIAM C. LANDIS, Pittsburgh, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 10, 1928. Serial No. 268,836. 7 Claims. (Cl. 74—109.)



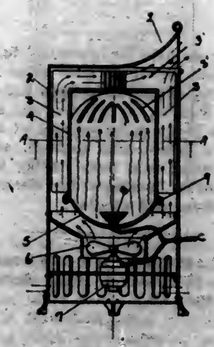
1. A piston comprising a pair of discs adapted to define a packing ring groove, said discs having supported portions and unsupported portions, and resilient means for securing said discs together, said resilient means acting on the supported portions only of said discs.

1,754,231. FLUID COMPRESSOR. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 11, 1928. Serial No. 276,856. 8 Claims. (Cl. 230—184.)



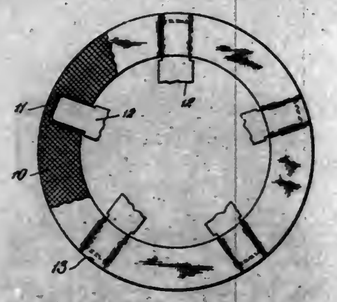
1. In a fluid compressor, the combination with a crank shaft, of three piston cylinders, one opposing the other two and fluid compressing pistons in said cylinders, and rods connecting each piston with said shaft.

1,754,232. RADIANT HEATER. ERNEST F. FISHER, St. Louis, Mo., assignor to Fanaire Heater Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 4, 1927, Serial No. 165,889. Renewed Feb. 5, 1930. 4 Claims. (Cl. 219—39.)



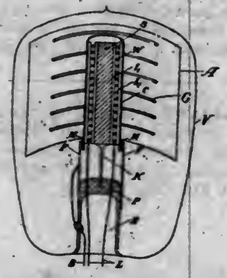
1. A heating apparatus comprising a tight shell formed of material that is capable of freely absorbing and freely emitting thermal radiations, an electrically-operated heating device arranged inside of said shell, means for causing air to circulate over said shell and abstract heat from the same, and a reflector, separate and distinct from said circulating means for gathering heat waves emanating from said heating device and projecting said heat waves onto said shell.

1,754,233. FRICTION ELEMENT. WILLIAM C. FISHER, Middletown, Conn., assignor to Russell Manufacturing Company, Middletown, Conn., a Corporation of Connecticut. Filed Mar. 9, 1927. Serial No. 173,896. 22 Claims. (Cl. 192—107.)



1. A friction element comprising a spoke structure, and a substantially flat ring of friction material mounted directly on the ends of the spokes with its faces substantially parallel to the plane of the spoke structure, the said ring having a limited freedom of movement with reference to the said structure.

1,754,234. VACUUM TUBE. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 18, 1926. Serial No. 130,046. 1 Claim. (Cl. 250—27.5.)



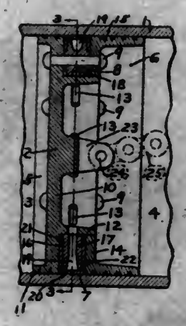
A vacuum tube suitable for operation during a substantial, predetermined period of time after the source of current for heating purposes has been cut off, comprising a bifilar heating winding, a metallic heat storing body of large proportions so as to be capable of storing a large amount of heat, a unipotential cathode, an insulator for electrically separating said heat storing body from said winding, and another insulator for electrically separating said cathode from said winding.

1,754,235. COLLAPSIBLE TOP. WILBERT A. HOURD, Detroit, Mich. Filed May 6, 1927. Serial No. 189,287. 1 Claim. (Cl. 296—98.)



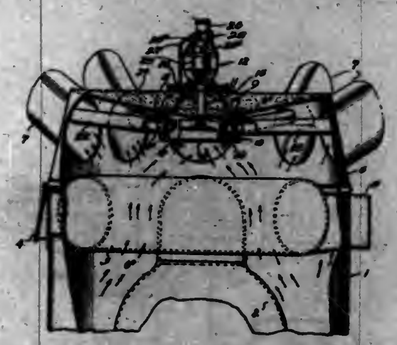
In a collapsible top adapted for use with a vehicle body having a cupola and a swingably mounted seat back rearwardly of said cupola, comprising: a bar extended transversely of said cupola and buckled intermediate its ends at spaced intervals to provide a plurality of loops; a frame mounted on said seat back; a cover mounted on said frame; and hooks mounted on the forward side of said cover for engaging in said loops.

1,754,236. PISTON PACKING. PIERRE L. LOSEE, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1928. Serial No. 325,463. 1 Claim. (Cl. 74—109.)



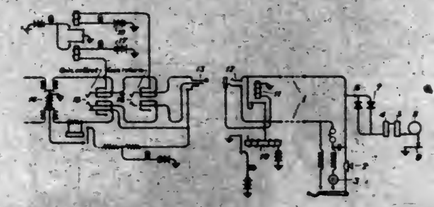
The combination with a brake cylinder, of a piston comprising a part having a web, an annular flange projecting from one side of said web and having openings formed therein, an annular clamping part carried by said flange, an annular spacing member carried by said flange and having spaced sides, the space between said sides being open to atmosphere through the openings in said flange, and packing clamped between said spacing member, web, and clamping member and being subject to atmospheric pressure in said spacing member to cause said packing to expand into close engagement with the inner wall of said brake cylinder when a partial vacuum is created at one side of said piston.

1,754,237. FURNACE. HARRIS B. MARKHAM, Escanaba, Mich. Filed Sept. 22, 1928. Serial No. 307,671. 8 Claims. (Cl. 126—105.)



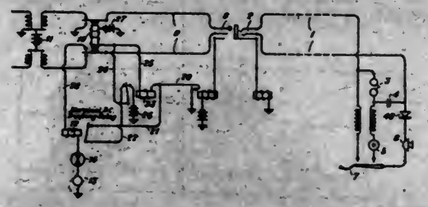
1. A hot air furnace having a warm air connecting hood at the top and supply pipes communicating with said hood, a suction fan attachment comprising a base plate, said hood top having a hole adapted to be closed by said base plate and to form a continuation of the top of said hood, a fan rotatably journalled in said base plate and projecting from the lower face of said base plate, a casing carried by said base plate and projecting into said hood, said casing having a bottom inlet and a plurality of side wall outlets and serving as a housing for inclosing said fan, means for rotating said fan, and pipe sections adapted to be connected to the respective outlets of said casing for communication with the respective heating pipes.

1,754,238. COIN-BOX DEVICE. ELIOT W. NILES, Bloomfield, N. J., and WILLIAM H. EDWARDS, Bayside, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 24, 1928. Serial No. 307,830. 4 Claims. (Cl. 179—6.8.)



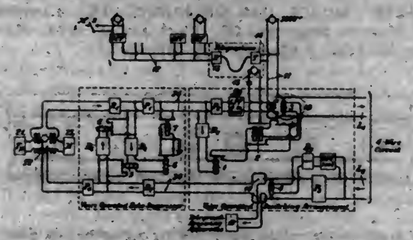
1. A subscriber's line terminating at a central office, a responsive device connected to said line, a source of current at said central office of a certain voltage, a second source of current at said central office of a lower voltage, and a device having a negative current-resistance characteristic connected in said line in series with said responsive device and said sources of current.

1,754,239. TELEPHONE SIGNALING SYSTEM. ELIOT W. NILES, Bloomfield, N. Y., and WILLIAM H. EDWARDS, Bayside, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 24, 1928. Serial No. 307,831. 5 Claims. (Cl. 179—84.)



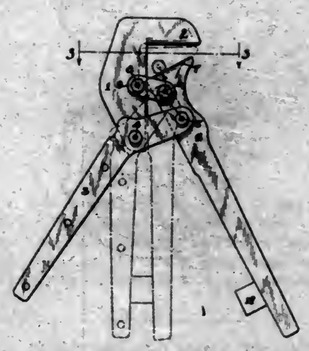
1. A telephone line connecting a subscriber's set with a central office, a source of alternating ringing current at said central office, a tripping relay in series with said source responsive only to unidirectional current, and rectifying means in the talking circuit of said subscriber's set.

1,754,240. COMPOSITE TELEPHONE AND TELEGRAPH SYSTEM. HARRY NYQUIST, Millburn, N. J., and SMART BRAND, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 8, 1926. Serial No. 134,266. 13 Claims. (Cl. 179—4.)



1. In a signaling system comprising a transmission line, telegraph apparatus associated with each end thereof, telephone apparatus adapted to be associated therewith, and means for automatically disconnecting the telegraph apparatus and connecting the telephone apparatus on the arrival of telephone currents and a special frequency signaling means at one end of the line to maintain the telegraph apparatus at the other end associated with the line during absence of telephone currents.

1,754,241. CORD-SEVERING IMPLEMENT. HARVEY A. RUSSELL, Madera, Calif. Filed Mar. 27, 1929. Serial No. 350,293. 3 Claims. (Cl. 128—305.)



1. A funis severing implement, comprising a carrier member having a jaw on one end thereof, a lever member pivotally attached to the carrier member at its other end, a shank pivotally attached to an end of the lever member, and a link pivotally attached to the shank and the carrier member.

1,754,242. DISPLAY DEVICE. HAIG SARAFIAN, New York, N. Y., assignor to Novelite, Inc., a Corporation of New York. Filed July 25, 1929. Serial No. 380,890. 5 Claims. (Cl. 40—132.)

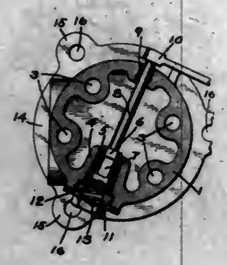


1. A display device including a plurality of connected outer frame members defining a substantially open panel, a plurality of inner framing members spaced from and connected to the outer frame and cooperating with the latter to form a framed opening, a glass border framed in said opening, said inner framing members also defining within said glass border, a framed opening for a display sign the outer frame and inner framing members having rearwardly facing shoulders defining rearwardly facing ledges against which the edges of the glass panes are secured.

1,754,243. LACQUER COMPOSITION. TEIKICHI SATOW, Tokyo, Japan. Filed Jan. 23, 1926. Serial No. 83,204. 9 Claims. (Cl. 184—26.)

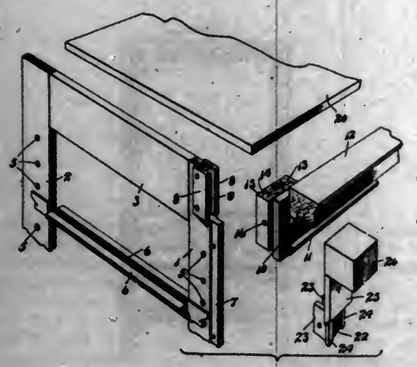
1. A lacquer material comprising a reaction product of urusiol and sulphur.

1,754,244. BRAKE-VALVE PEDESTAL. CARLTON D. STEWART, Berkeley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Feb. 8, 1928. Serial No. 252,924. 5 Claims. (Cl. 303—84.)



1. The combination with a brake valve device and a pedestal having cored passages and supporting said brake valve device, of a tapered plug valve mounted in a transverse bore formed in said pedestal and an operating stem carried by said plug valve and extending through an opening in said pedestal.

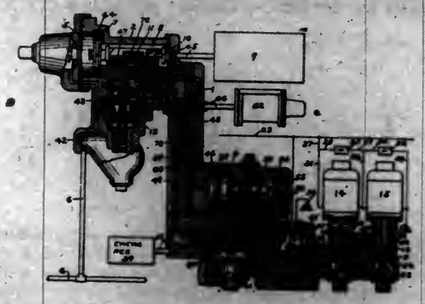
1,754,245. WALL-CASE CONSTRUCTION. MARTIN J. STRAAYER, Grand Rapids, Mich., assignor to Grand Rapids Show Case Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Oct. 4, 1926. Serial No. 139,319. 7 Claims. (Cl. 312—107.)



7. Store furniture comprising, a plurality of spaced apart vertical frames, upper cornices lying between and at the upper ends of adjacent frames, means for receiving said cornices on said frames by direct horizontal movement, a pilaster at the vertical front edge of each of said frames, means for receiving said pilaster on said frame by direct horizontal movement and means for detachably connecting the pilaster to the frame.

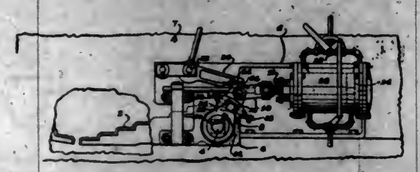
1,754,246. ELECTROPNEUMATIC BRAKE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 31, 1928. Serial No. 303,254. 20 Claims. (Cl. 303—17.)

1. In an electro-pneumatic brake, the combination with means for controlling the brakes electrically and means for controlling the brakes pneumatically, of a plurality of reservoirs, and a valve device having a position for rendering the electric controlling means effective to control the



brakes and for establishing communication from one of said reservoirs to the other, and having another position for rendering the pneumatic controlling means effective to control the brakes and for closing said communication.

1,754,247. DUMP GRATE. SIGURD J. A. WIEBE, East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 2, 1924. Serial No. 753,451. 3 Claims. (Cl. 126—169.)



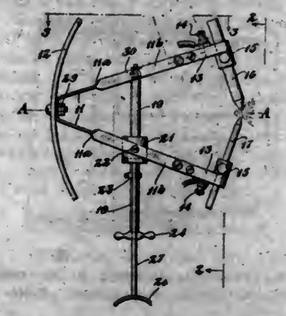
1. A dumping device of the class described having, in combination, a dumping member, a rock shaft on which said dumping member is mounted, and means for actuating the rock shaft to raise and lower the dumping member comprising an arm mounted on the rock shaft so as to permit pivotal movement of the arm and shaft with relation to each other, and means for securing the arm to the rock shaft comprising a second arm secured on the shaft, and connections between said arms having provision for adjustment to vary the angular position of the rock shaft with relation to the first mentioned arm.

1,754,248. SPLICE BAR OR FISHPLATE. LAWRENCE S. WILBUR, Evanston, Ill. Filed Apr. 1, 1929. Serial No. 351,643. 7 Claims. (Cl. 238—243.)



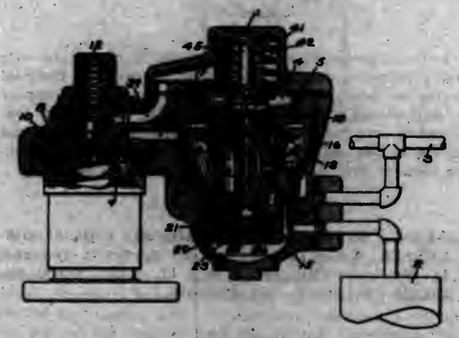
1. A splice bar or fish plate having a crowned or humped middle portion, and having depressions in the top thereof near the ends of the bar, whereby the middle portion of the bar slopes gently toward and into said depressions, while the relatively short end portions of the bar slope toward the middle of the bar and into said depressions, said end portions of the bar being bent outwardly at angles to the middle portion of the bar, which middle portion is straight when the bar in normal condition is viewed from above.

1,754,249. ONE-HAND ARC LAMP. MAURICE J. WOHL, Long Island City, N. Y. Filed Nov. 16, 1925. Serial No. 69,538. 11 Claims. (Cl. 176—103.)



10. In a lamp a pair of arc forming electrodes, arms holding said electrodes in angular relation to each other, means for normally separating said arms, operating means for pressing said arms together and friction means in engagement with said operating means and means cooperating with said friction means to limit the separation of said arms to strike an arc by the release of said pressure.

1,754,250. FEED-VALVE DEVICE. JOHN B. WRIGHT, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Jan. 4, 1927. Serial No. 158,983. 2 Claims. (Cl. 50—11.)

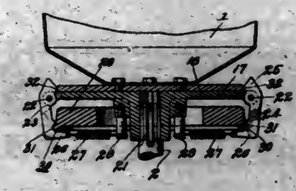


1. In a feed valve device, a supply valve for controlling the supply of fluid under pressure to an outlet, a piston and piston stem for operating said valve, said piston having an axially disposed chamber open to an axially disposed passage through said stem, and a removable plug in said chamber provided with a restricted port to permit the restricted flow of fluid through said passage and said restricted port to the chamber at the outer face of said piston and means operated upon a reduction in outlet pressure for venting fluid from said last mentioned chamber.

1,754,251. PROCESS OF STERILIZATION. JOHN W. YATES, Madison, Wis., assignor, by mesne assignments, to General Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed May 9, 1928. Serial No. 276,503. 4 Claims. (Cl. 167—18.)

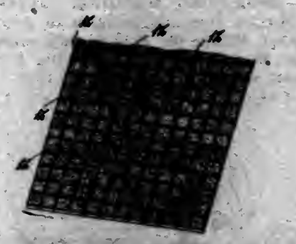
3. A process of disinfecting or sterilizing surfaces which consists in applying a dilute solution of sodium hypochlorite containing from one hundred to five hundred parts of available chlorine per million parts of water by atomizing the solution in applying the same whereby the carbon dioxide in the atmosphere reacts with the hypochlorite solution to form hypochlorous acid in effective strength for the purpose set forth.

1,754,252. CENTRIFUGAL DRIER. ALPHEUS W. ALTORFER, Peoria, Ill. Filed June 23, 1928. Serial No. 287,713. 5 Claims. (Cl. 210—71.)



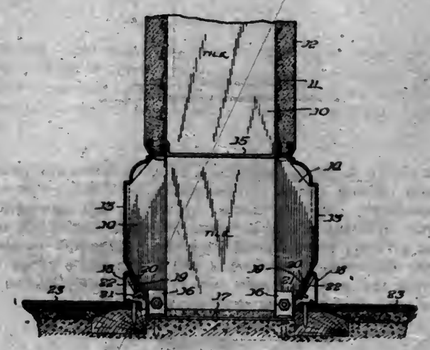
1. In a centrifugal clothes drier, in combination, a receptacle, a driving shaft, a counterbalancing means arranged for an axial sliding connection with said driving shaft, and means on the lower end of the receptacle arranged for driving connection with said counter-balancing means.

1,754,253. FLOORING AND THE LIKE AND METHOD OF MAKING. HENRY C. AVERY, New Brunswick, N. J., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed May 10, 1924. Serial No. 712,264. 11 Claims. (Cl. 94—3.)



6. Sheet flooring comprising an asphaltic base having a substantially smooth surfacing layer thereon showing a mixture of asphaltic and granular material, said layer having channels therein defining tile-simulating areas.

1,754,254. MOLDING STRIP. ISAAC A. BAUM, Chicago, Ill. Filed Dec. 27, 1927. Serial No. 242,630. 5 Claim. (Cl. 16—16.)



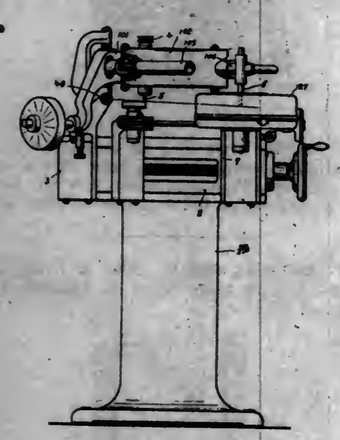
1. In a device of the class described, the combination of a metal baseboard, the lower portion thereof being diagonally bent inward, a continuous metal binding strip adapted to substantially close said diagonally inclined opening, and cooperating means on said baseboard and said strip for effecting adjustable positioning of said strip.

1,754,255. AGITATOR. JOSEPH E. BOND, Appleton, Wis. Filed Mar. 14, 1928. Serial No. 261,554. 3 Claims. (Cl. 259—97.)



1. In apparatus of the class described, the combination of a tank, a division wall in said tank extending from one end substantially the length thereof, a pump having an inlet and an outlet opening in said tank, one on each side of said division wall, an external motor for said pump, and a rotor having blades, said rotor being located in the open space in the tank adjacent to said inlet opening.

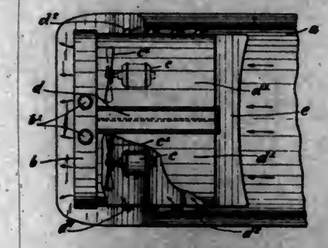
1,754,256. ENGRAVING MACHINE. LORENZ KONRAD BRAREN, Munich, Germany, assignor to the Firm Friedrich Deckel, Fabrik für Präsisionsmechanik und Maschinenbau, Munich, Germany. Filed Dec. 4, 1923, Serial No. 678,485, and in Germany Dec. 28, 1922. 40 Claims. (Cl. 90—13.1.)



1. In an engraving machine a parallelogrammatic pantograph, cutting means, guiding means, both carried by said pantograph, pivoting means on which said pantograph turns, different pivoting means at right angles to said first pivoting means, permitting the pantograph to make three dimensional movements and a removable gauge for setting the points of said cutting and guiding means in line with the center of said second pivoting means.

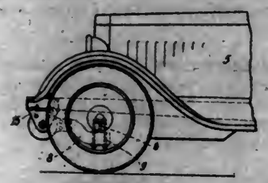
1,754,257. COOLING SYSTEM. BENJAMIN H. BRITT, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 14, 1928. Serial No. 299,510. 3 Claims. (Cl. 257—125.)

1. A cooling system for a vehicle having a control for reversing the movement thereof, comprising a radiator, means for mounting the radiator upon the roof of the vehicle, a hood associated with the radiator, means within the hood for creating a flow of cooling air therethrough,



and means to reverse the direction of the flow creating means when the direction of movement of the vehicle is changed.

1,754,258. VEHICLE CUSHIONING AND SHOCK-ABSORBING DEVICE. WILLIAM C. BROADWELL, Brooklyn, N. Y. Filed Aug. 25, 1926. Serial No. 131,318. 10 Claims. (Cl. 267—21.)



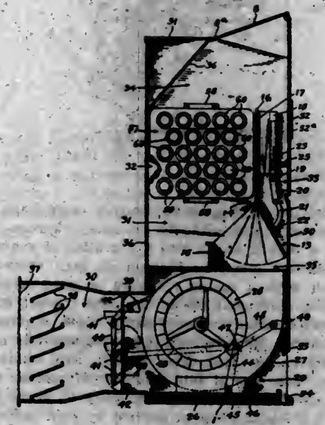
1. In a cushioning device for a vehicle having an axle and a frame, a cushioning element of yieldable material having at least one of its faces anchored with respect to said frame, and an oscillatory lever universally connected to said frame through said cushioning element and having at one end a face-to-face union with said cushioning element and connected at its other end to said axle.

1,754,259. STERILIZABLE SURGICAL LIQUID DISPENSER. CHARLES S. BROWN and ROBERT H. TONTRUP, Jr., St. Louis, Mo. Filed July 11, 1927. Serial No. 204,917. 6 Claims. (Cl. 221—106.)



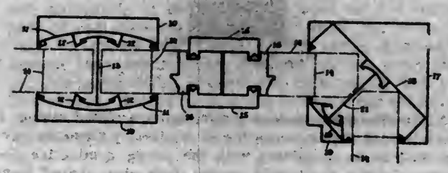
1. A surgical liquid dispensing device comprising a support adapted to be fixed to a wall and having a plurality of horizontal and outwardly presented pins, a liquid container having a plurality of tubular members slidably and removably mounted on said pins, said bottom being provided with a depending extension having a discharge opening, a revoluble valve disposed in said extension coaxially with said container and operable in one direction to release a given amount of liquid through said discharge opening, mechanism in said container for actuating said valve, and means including a spring disposed in said support and having detachable engagement with said mechanism for actuating said valve, said means being pedally operated by the user to open said valve, said spring being used to return said valve into closed position and restore said means to home position.

1,754,260. LOW-DOWN HEATING AND VENTILATING UNIT. MICHAEL J. CALLAHAN, New York, N. Y. Filed May 14, 1925. Serial No. 15,518. 26 Claims. (Cl. 257—137.)



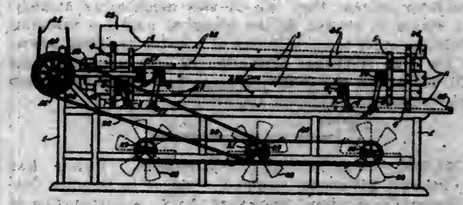
1. A heating and ventilating unit comprising a casing divided into a blower chamber, fresh air inlet chamber, heating chamber, and discharge chamber, the inlet and blower chambers being one behind the other at the bottom of the casing, and the discharge chamber being at the top of the casing; and means for controlling the passage of air from the blower chamber through the heating chamber.

1,754,261. MEANS FOR CONSTRUCTING INTERLOCKING STRUCTURES. THEODORE CARROZZA, Bronx, N. Y. Filed Nov. 9, 1928. Serial No. 318,145. 3 Claims. (Cl. 189—36.)



1. The combination with two metallic posts having inwardly projecting hook portions on their ends of interlocking means adapted to hold them together in spaced relation, said means including a double ended T-shaped section.

1,754,262. DRIER FOR DOUGH PRODUCTS. FRANK CENZI, St. Louis, Mo. Filed Feb. 9, 1928. Serial No. 253,002. 7 Claims. (Cl. 34—38.)



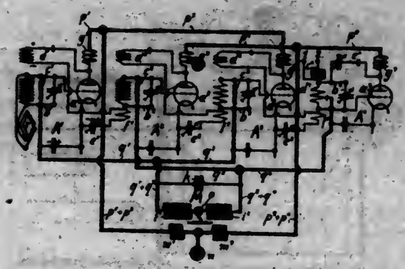
1. A drier for noodles and the like, comprising, a vertical stack of trays having perforated bottoms, the outside walls of said trays joining at their meeting edges so as to form the outside walls of a vertical shaft, means for shaking said trays, and means for passing air through said shaft.

1,754,263. STRINGED MUSICAL INSTRUMENT. ROBERT W. CLAIBORNE, New Canaan, Conn. Filed May 28, 1927. Serial No. 194,876. 4 Claims. (Cl. 84—274.)



1. A stringed musical instrument comprising a longitudinal frame piece, a sound box enclosing an end portion thereof, the other end portion forming a neck, a string anchoring peg having one end extending into an enclosed portion of said frame piece and string tightening means mounted in said neck portion thereof.

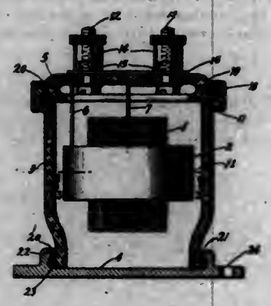
1,754,264. CONTROL MEANS FOR SUPERREGENERATIVE RECEIVERS. RUDOLF ALBAN CLAUSNITZER, Lubeck, Germany. Filed Apr. 15, 1927, Serial No. 184,086, and in Germany Jan. 18, 1927. 1 Claim. (Cl. 250—20.)



A radio receiving system comprising a plurality of amplifying stages connected in cascade, circuit means for super-regeneratively coupling each of said amplifier stages, an oscillator adapted to generate a lower auxiliary fre-

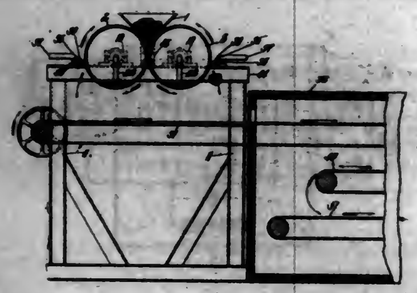
quency and coupled to said amplifier stages, and means for tuning said amplifier stages to a higher harmonic of the frequency of each preceding stage, said superregenerative circuits being so coupled in this auxiliary generator system that one of two neighboring amplifying stages is always in the phase of negative damping, while the other is in the phase of positive damping, whereby the high frequency oscillation in each amplifier stage will not excite the following stage before this oscillation has reached its maximum amplitude.

1,754,265. ELECTRICAL CONDENSER. PHILIP RAY COURSEY, Richmond, England, assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed June 23, 1926, Serial No. 118,102, and in Great Britain July 3, 1925. 2 Claims. (Cl. 175—41.)



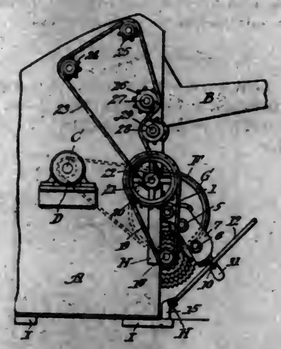
1. A condenser comprising a casing of insulation, a bottom for said casing, the bottom having a flange, and the lower end of said casing being encircled by said flange, the flange projecting towards the casing and the lower end of the casing being extended to project towards the flange to enable the bottom and the body of the casing to be cemented together, the opposite end of the casing having a shoulder, a top for the casing resting upon the shoulder, said top having a groove encircling the rim thereof, the casing having a projecting rib adjacent said groove, cement filling the space between the rib and the rim of the top to secure the top in place and seal the casing, a clamped condenser in the casing, binding posts mounted on the top and conductors attached to the binding posts and to the condenser and suspending the condenser in the casing.

1,754,266. FLAKE-FORMING METHOD. JOHN T. COX, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed May 22, 1926. Serial No. 110,840. 1 Claim. (Cl. 107—54.)



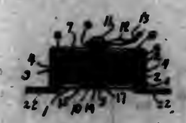
The method of forming flakes from dough which comprises pressing and indenting the dough between surfaces to which the dough adheres in sheet form, drying the dough while it is in contact with said surfaces, progressively separating said surfaces thereby splitting the sheet of dough, stripping the dried dough from said surfaces whereby it breaks apart subetantially along the lines of indentation forming flakes, and then baking the flakes.

1,754,267. GEAR MECHANISM. ABRAHAM M. DELLINGER, Lancaster, Pa. Filed Oct. 29, 1928. Serial No. 315,815. 2 Claims. (Cl. 74—58.)



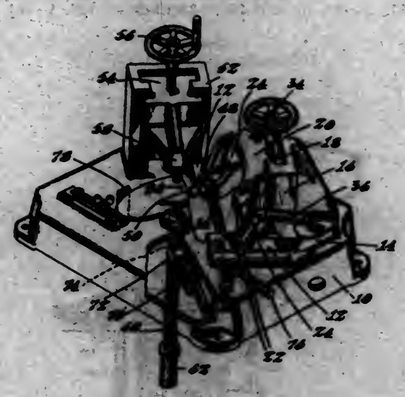
1. A selective speed gear mechanism comprising a drive shaft, a drive pinion slidably mounted thereon to turn therewith, a driven shaft, and a plurality of gears of different diameters mounted thereon to turn therewith, in combination with a casing mounted on said drive pinion for swinging movement about the axis thereof and movable therewith axially of said drive shaft, a plurality of pinions mounted for intermeshing engagement in said casing and driven by said drive pinion, said casing being movable to cause one of said plurality of pinions to mesh with any selected one of said plurality of gears to drive the same, a gripping element carried by said casing, a bar extending parallel to and in fixed relation with, said shafts, a rod mounted on said bar for free swinging movement about the axis thereof and free for sliding movement axially thereof and extending through said gripping means, and means for causing said gripping element to bind on said rod to hold said casing against swinging movement about said drive pinion.

1,754,268. ELECTRICAL CONDENSER. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed May 17, 1926. Serial No. 109,469. 4 Claims. (Cl. 175—41.)



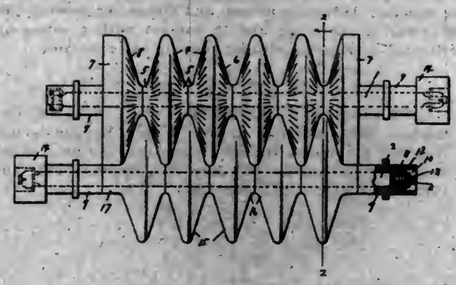
1. An electrical condenser comprising a closed casing, a stack in said casing consisting of conductive elements having their edges in contact with the casing, conductive elements of different polarity having their edges spaced from the casing, insulation between said elements, a compressor member on said stack, means for enabling connection to be made with the elements of small area through said member, and a closure plate for the stack overlying said member, the adjacent edges of said casing being pressed down into engagement with said closure plate.

1,754,269. LAST-ASSEMBLING MACHINE. PERLEY FULLER, Lewiston, Me., assignor to Fits-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Mar. 1, 1927. Serial No. 171,674. 16 Claims. (Cl. 12—1.)



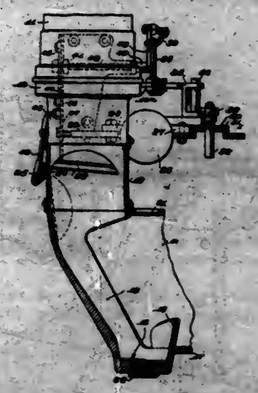
1. A last assembling machine having means for holding a last part, means for holding a last link, and mechanism for causing a movement of relative approach between a last part and a last link carried by said means, the two said means being relatively adjustable in a direction perpendicular to the longitudinal vertical plane of the last part.

1,754,270. ROLL CONSTRUCTION FOR GRISTMILLS. EDWIN A. HALL, Daggett, Mich. Filed Apr. 20, 1928. Serial No. 271,527. 1 Claim. (Cl. 83—12.)



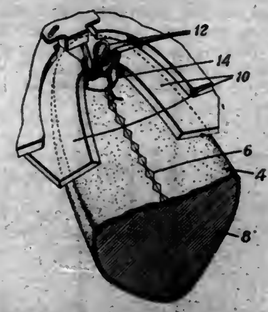
In a roll construction for grinding mills, a pair of parallel spaced non-circular shafts, a reduced threaded spindle formed on each end of each shaft, a plurality of independent operatively beveled disks, arranged on one shaft, a pair of end disks arranged on said shaft, the inner face only of each end disk being beveled, a series of oppositely beveled independent disks arranged on the other shaft for alternately fitting between the disks on the first mentioned shaft, the end disks of the second series having hub extensions on the outer side thereof with which the peripheral edges of the endmost disks of the first mentioned series engage, sleeves having non-circular bores disposed over the respective ends of each shaft, the outer end of each sleeve being formed with an enlarged socket into which the respective spindle extends, a ring surrounding each spindle in each of the sockets, and a nut threaded on each spindle to hold the respective ring against the inner end of the respective sockets as and for the purpose described.

1,754,271. CUP-DISPENSING MECHANISM. HARRY M. HENDERSON, Washington, D. C. Filed Dec. 9, 1927. Serial No. 238,815. 4 Claims. (Cl. 312—44.)



1. A cup dispensing apparatus including a cup holder, a cap releasing mechanism below said holder, a discharge tube depending from said mechanism, a pivoted closure member within, and normally extending across said discharge tube, said closure member being curved to fit the inner surface of the tube and adapted to conform thereto in inactive position, an operating means for said mechanism including a spring-controlled yielding part, and connections from said operating means for shifting said closure member to and from inactive position.

1,754,272. METHOD OF LASTING SHOES. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 29, 1929. Serial No. 367,018. 7 Claims. (Cl. 12—145.)

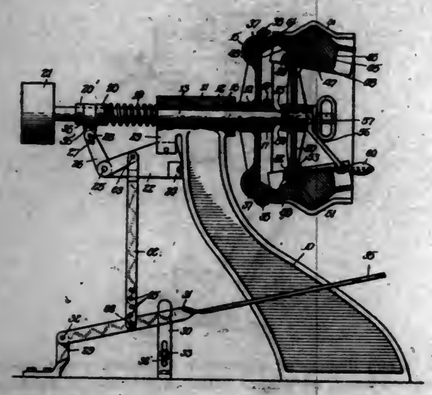


1. That improvement in methods of lasting the toes of felt shoes which consists in gathering the margin of the toe end portion of a felt shoe upper in folds in a substantially central location over the bottom face of the toe end portion of a last, and applying holding means entirely around the gathered margin of the upper in contact therewith on all sides to maintain the toe portion of the upper in lasted position.

1,754,273. COLLAPSIBLE DRUM. VICTOR KARDOWSKI, Idaho Springs, Colo., and WILLIAM C. SMITH, Des Moines, Iowa, assignors to Lake Shore Tire & Rubber Company, Chicago, Ill., a Corporation of Iowa. Filed June 30, 1928. Serial No. 289,488. 8 Claims. (Cl. 154—9.)

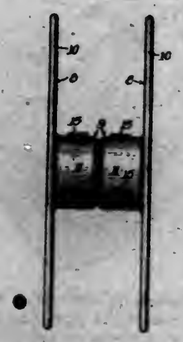
1. A collapsible drum comprising drum segments independently mounted for movement, each segment being

pivoted at a location to one side of the center plane of said drum, said pivots being disposed normally to planes



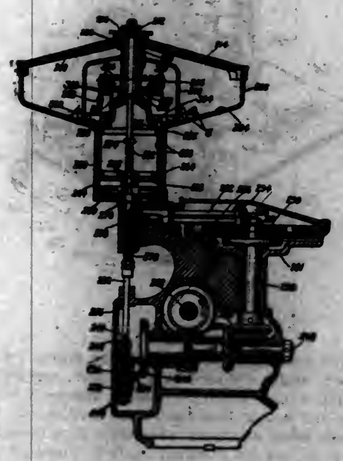
passing through the axis of said drum, and means within said drum for engagment with and movement of each segment.

1,754,274. SPOOL END. JOHN H. KJELLSTROM, Rockford, Ill., assignor to J. L. Clark Manufacturing Co., Rockford, Ill., a Corporation of Illinois. Filed Sept. 8, 1927. Serial No. 217,321. 2 Claims. (Cl. 242—68.)



1. A spool end adapted to be attached to a tubular core, said end comprising a disk, a separately formed cylindrical thimble having bottom and side walls and having its open end attached to said disk centrally thereof and extending axially therefrom, said thimble being adapted to fit snugly within the bore of said core and to extend substantially half way therethrough, and a plurality of vane-like projections struck outwardly from the side wall of said thimble and extending longitudinally thereof so as to be embedded in the core when the thimble is placed therein.

1,754,275. FEEDING MECHANISM. ALBERT LATHAM, deceased, Beverly, Mass., by James W. Nourbourn, administrator, Somerville, Mass., assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Original application filed Nov. 12, 1921, Serial No. 514,621. Divided and this application filed Oct. 27, 1927. Serial No. 229,188. 35 Claims. (Cl. 1—3.1.)



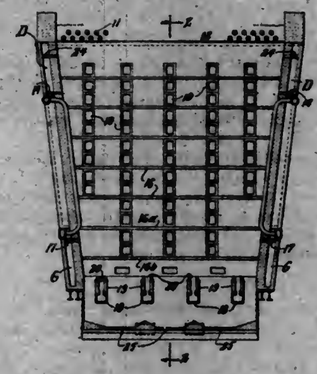
1. In a machine of the class described, an article-receptacle, an article-conveyor leading therefrom, an article-carrying member operating in the receptacle, a plurality of article-positioning members co-operating with the carrying member, delivering means, and means for moving the delivering means along and in contact with a series of positioned articles to advance them to the conveyor.

1,754,276. LOADING MACHINE. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed July 21, 1921, Serial No. 486,650. Renewed Feb. 19, 1929. 34 Claims. (Cl. 262—28.)



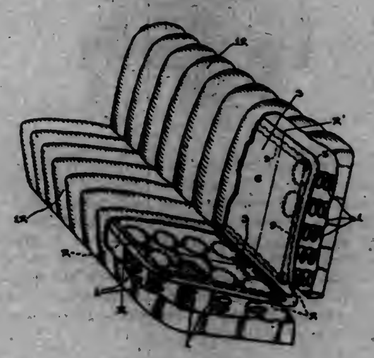
1. In a machine for loading coal in mines, the combination with a supporting frame adapted to rest upon and slide over the mine floor, a conveyor extending longitudinally of said frame adapted to receive material at points adjacent the mine floor and discharge it at a suitable elevation, means upon said frame adapted to bodily move said frame over the mine floor, means to guide the machine in a predetermined path, and a plurality of coal engaging elements adapted to travel along a path extending substantially perpendicularly towards and over the receiving end of said conveyor to engage material upon the mine floor and transfer it to said conveyor.

1,754,277. APPARATUS FOR PULVERIZED-FUEL BURNING. EDWIN LUNDGREN, Frederick, Md., assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Nov. 30, 1923. Serial No. 677,900. 6 Claims. (Cl. 110—28.)



5. In a furnace for burning pulverized fuel, a combustion chamber, means for admitting pulverized fuel downwardly thereinto, and air conducting means having spaced slot-like inlets extending across the bottom portion of the chamber for admitting air in an upward direction beneath the fuel and flame stream.

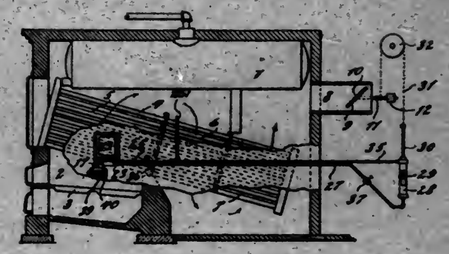
1,754,278. UPHOLSTERED SEAT. CHARLES E. MCCORMICK, Detroit, Mich. Filed Sept. 17, 1928. Serial No. 306,379. 1 Claim. (Cl. 155—181.)



In combination with a seat spring structure having a border wire around its top portion, a pad extending over the spring structure, a woven cover for said pad having a hem on each edge shorter than the edge, and retaining wires inserted through the respective hems and shorter than the respective edges of the cover, said wires having hooks at their ends whereby when the hooks on the ends of meeting wires are interengaged the edge portions of the pad and cover will be drawn over the border wire and held under and at the inner side thereof to be shaped thereby.

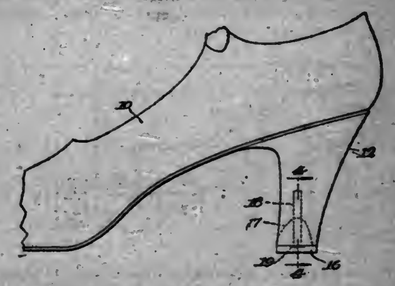
1,754,279. FURNACE AND CONTROL THEREFOR. EMBURY MCLEAN, Brooklyn, N. Y., assignor to The Engineer Company, New York, N. Y., a Corporation of New York. Filed Aug. 4, 1923. Serial No. 655,571. 9 Claims. (Cl. 236—14.)

1. In a boiler furnace, suction draft means for supplying air to the furnace, a regulator subjected directly to and movable in accordance with variations in pressure in said furnace, means operable solely by said regulator for varying the effective area of the outlet flue, and means



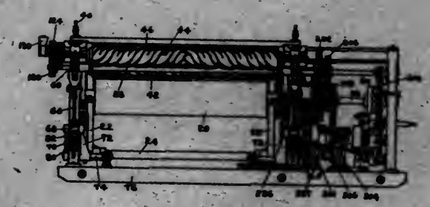
maintaining any desired status in a function of the boiler either constant or variable by automatically changing the adjustment of said regulator.

1,754,280. SHOE HEEL. JOHN F. MCNAMARA, Chicago, Ill. Filed July 9, 1928. Serial No. 291,153. 5 Claims. (Cl. 36—36.)



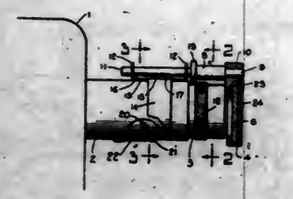
1. In a detachable shoe heel, a heel support built as a permanent part of a shoe and having a plurality of elongated openings therein and a heel body adapted to be attached to the support and having resilient prongs extending into the elongated openings to hold the heel body in position.

1,754,281. MACHINE FOR WORKING LEATHER AND OTHER SHEET MATERIAL. JOHN W. O'DONNELL, Salem, Mass., assignor to The Turner Tanning Machinery Company, Peabody, Mass., a Corporation of Maine. Filed Apr. 10, 1924, Serial No. 705,716. Renewed Jan. 3, 1929. 20 Claims. (Cl. 149—16.)



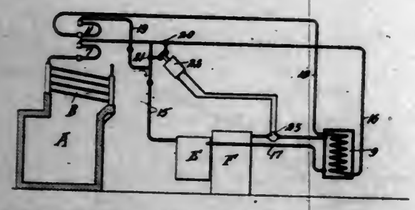
1. In a machine of the character described, feed rolls for supporting and feeding work, a pair of cylinders, means for causing simultaneous operation of the cylinders on the work at a predetermined pressure, and means under the control of the operator for reversing the direction of feed of the feed rolls while the cylinders continue operating as before, whereby portions of the work may be fed in opposite directions and operated upon repeatedly without withdrawing the work from and re-introducing it into the machine.

1,754,282. COLOR-SCREEN ACCESSORY FOR CAMERAS. FREEMAN H. OWENS, New York, N. Y. Filed Dec. 18, 1928. Serial No. 326,868. 7 Claims. (Cl. 95—81.5.)



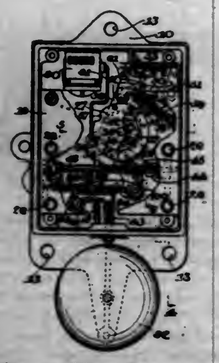
1. An accessory for a camera having a lens casing comprising a fixed section and an adjustable section, said accessory comprising a support for a color screen and parts for detachably engaging the fixed section of the lens casing of the camera for mounting the color screen over the outer end of the movable section of the lens casing.

1,754,283. STEAM-POWER PLANT. EDWIN A. PACKARD, Yonkers, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 1, 1926. Serial No. 91,342. 2 Claims. (Cl. 60—73.)



1. In combination, a boiler, a superheater, a high pressure engine, a pipe leading from the superheater to the high pressure engine, a low pressure engine, a reheater between the engines, a pipe leading from the boiler to the reheater for supplying steam for reheating the exhaust from the high pressure engine, a second superheater, a pipe leading from the reheater thereto, and a pipe leading from such superheater to join with the pipe leading from the first superheater to the high pressure engine.

1,754,284. CONTROL DEVICE FOR MIXING MACHINES. ALBERT H. PLATE, Milwaukee, Wis., assignor to Durant Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 6, 1923. Serial No. 666,980. 12 Claims. (Cl. 161—1.)

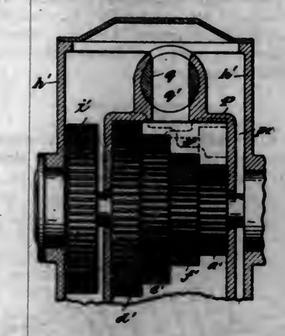


1. In a mixing machine, the combination of timing mechanism including a movable control member, a setting shaft, a clutch including a pawl on said shaft engaging a part of said control member for moving it to a "set" position, a settable member for releasing said pawl from actuating engagement with said control member when said control member has reached the desired "set" position, and means for actuating said control member during its timing period.

1,754,285. NONAQUEOUS DYE BATH. EUGENE R. SCHLATTER, Little Falls, N. J., assignor to Dip-It Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1926. Serial No. 94,590. 11 Claims. (Cl. 8—6.)

1. An alcoholic dye-bath comprising alcohol, a dye scantily soluble in alcohol but freely soluble in glycerin, and glycerin; the said dye being present in excess of the amount which can be dissolved in the same quantity of a mixture of alcohol and glycerin in the proportions in which they are contained in the dye bath.

1,754,286. TRANSMISSION BRAKE. HENRY B. SHIELDS, Freeport, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 23, 1926, Serial No. 96,677. Divided and this application filed Nov. 21, 1927. Serial No. 234,588. 1 Claim. (Cl. 192—4.)



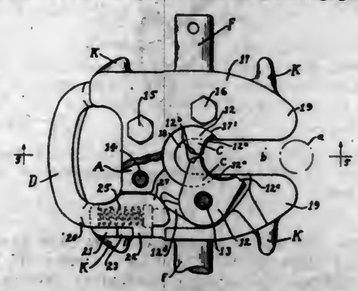
In a transmission mechanism, in combination, a countershaft, a driven shaft, gears carried with the respective shafts and always meshing with each other, whereby the lubricant may be pumped on rotation of said gears, means to cause selected gears to transmit motion to the driven shaft, a housing enclosing the gears and conforming closely to the outer extremities of the gears, a lubricant outlet in the housing, means permitting the lubricant pumped to return to the suction side of the gears, and means to restrict the flow of the lubricant.

1,754,287. METHOD OF DYEING SHEARLINGS AND THE LIKE. JOHN G. SHOEMAKER, South St. Paul, Minn., assignor to A. C. Lawrence Leather Company, Boston, Mass., a Corporation of Maine. Filed Apr. 4, 1928. Serial No. 267,481. 11 Claims. (Cl. 8—5.)

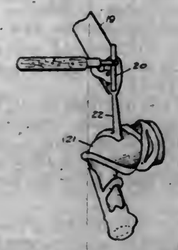
1. The method of dyeing shearlings and furs which consists in applying to the outer portions of the hairs a protective coating, leaving the inner portions of such hairs uncoated, subjecting the hairs to the action of the dye to dye the inner portions of the hairs, and subsequently removing the protective coating from the outer portions of the hairs.

1,754,288. WELL APPARATUS. NELSON K. SMITH, Los Angeles, Calif., assignor to Byron Jackson Co., West Berkeley, Calif., a Corporation of Delaware. Filed Mar. 6, 1926. Serial No. 92,740. 2 Claims. (Cl. 294—91.)

1. A device of the character disclosed, comprising a body provided with relatively movable jaws adapted to receive and accommodate work upon presentation to the work, and means for positively locking said jaws in work-engaging relations and for releasably locking said jaws when in work-receiving relations; said jaws being mounted for movement from one plane when in work-engaging relation to another plane when in work-receiving relation; pockets being provided to that end in said body for said jaws, and cam means being provided for causing the movement of said jaws from plane to plane when said jaws are partially rotated.

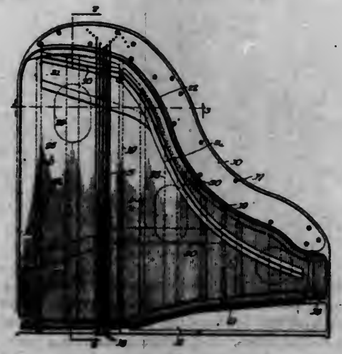


1,754,289. ART OF DECORATING PIPES. GEORGE ST. JOHN, Jr., New York, N. Y., assignor to Wm. Demuth & Co., New York, N. Y., a Corporation of New York. Filed Oct. 8, 1928. Serial No. 311,232. 1 Claim. (Cl. 41—39.)



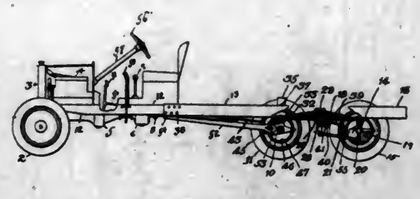
The herein described method of forming designs on pipes, which consists in applying to a pipe surface having no indication of the ultimate design thereon, a ribbon or strand of elastic resist to thereby form any desired design on such pipe surface, and thereafter treating the pipe to contrast the designed surface with that portion of the surface which was covered by the resist.

1,754,290. MUSICAL INSTRUMENT. JOSEPH N. VASEY, Brookfield, Ill. Filed Dec. 27, 1927. Serial No. 242,655. 8 Claims. (Cl. 84—189.)



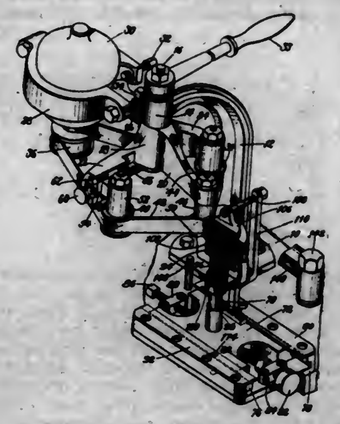
1. In a musical instrument, the combination of a string supporting frame, a sounding body surrounded by said frame, said frame having ledges on which said body is seated at its edges, said body being otherwise free from said frame, strings on said frame spanning said body, and bridge structure on said body engaged by the strings whereby said body is held by the pressure of the strings in position on said ledges.

1,754,291. MOTOR VEHICLE CONSTRUCTION. JOHN G. UTZ, Detroit, Mich., assignor to Otilia H. Utz, Detroit, Mich. Filed Nov. 27, 1925. Serial No. 71,573. 3 Claims. (Cl. 180—22.)



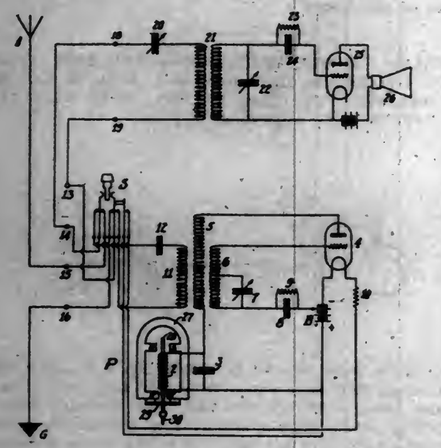
1. In a motor vehicle, in combination, a frame, a pair of closely associated non-steering rear axles, one of said axles being a driving axle and being provided with a housing and the other of said axles being a dead axle, said housing being pivotally connected to said frame by means of a propeller shaft housing, a pair of springs extending longitudinally of said frame between said axles and trunnioned to said frame therebetween, a sliding connection between the front ends of said springs and said housing, and a pivotal connection between the rear ends of said springs and said dead axle, said dead axle being maintained against movement longitudinally of said springs whereby to maintain the wheels on said rear axles in constant approximate alignment.

1,754,292. SCOURING MACHINE. HAROLD WARREN, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 27, 1924. Serial No. 695,558. Renewed Dec. 1, 1926. 29 Claims. (Cl. 51—143.)



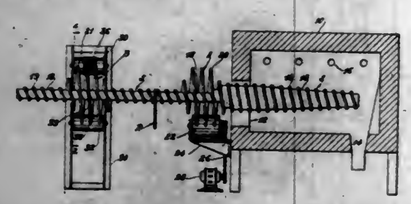
1. In a machine for scouring heels, a scouring tool, means for supporting the heel of a shoe for presentation to said scouring tool constructed and arranged to allow movement toward and away from the tool, resilient means urging the heel toward the tool, a gage adjacent to the tool adapted to engage a portion of the shoe to limit the movement of the heel toward the tool, and means for effecting a relative movement of the heel and the scouring tool to present various portions of the heel to the tool.

1,754,293. PHONOGRAPH ADJUNCT FOR RADIO SETS. JULIUS WEINBERGER, New York, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed June 2, 1925. Serial No. 34,274. 4 Claims. (Cl. 179—100.4.)



4. An electric phonograph including in combination a radio receiving apparatus having an input circuit tunable over a range of frequencies, a radio frequency oscillator arranged to generate oscillations having frequencies within said range, an electro-magnetic pick-up device, said device being adapted to generate electrical undulations in accordance with a record groove device, means to impress said undulations upon said oscillator, whereby to modulate the output thereof, and means to impress said modulated output of the oscillator upon said input circuit.

1,754,294. SPIRAL FEED CONVEYER FOR HEAT-TREATING FURNACES. MURRAY WINTER, Wrentham, Mass., assignor to The Surface Combustion Company, Inc., Toledo, Ohio, a Corporation of New York. Filed Sept. 25, 1928. Serial No. 308,314. 8 Claims. (Cl. 198—213.)



1. In a conveyer, the combination of a horizontally disposed rotatable shaft, spiral means on the shaft forming a guide way for objects hung on the shaft, means arranged alongside of the shaft for supporting it for rotation, said supporting means contacting with the periphery of said spiral means below the axis of the shaft laterally of the bottom thereof, an axially fixed element disposed alongside the shaft, and means on the spiral means cooperating with said element to prevent axial displacement of the shaft.

1,754,295. BLADE SHARPENER. SAMUEL M. WIXCEL, Marcus, Iowa. Filed Mar. 18, 1929. Serial No. 347,971. 3 Claims. (Cl. 76—82.1.)

1. A sharpener of the character described comprising a holder formed of a spring metal blank to comprise a hand grip portion, and walls forming a cutting element receiving grooveway, a cutting element in the element receiving grooveway, and means including a bolt and nut for securing the element in the grooveway, said nut being dis-



posed relatively to one of the walls which form the grooveway to prevent inadvertent loosening of the nut on said bolt.

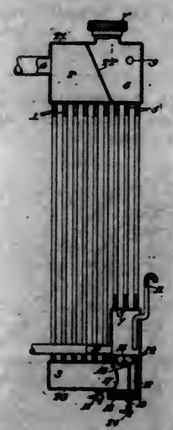
1,754,296. PROCESS OF ENHANCING THE FLOW OF OILS THROUGH PIPE LINES. ALBERT H. ACKERMAN, Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo., a Corporation of Colorado. Filed Feb. 16, 1927. Serial No. 168,820. 5 Claims. (Cl. 87—5.)

1. In a process for removing deposits from pipe lines used for conveying crude oil, the step of passing through the lines a composition composing naphthalene, anthracene, alkalies and sugar dissolved in oil that is being pumped through the lines.

1,754,297. PROCESS OF TREATING FUEL OILS. ALBERT H. ACKERMAN, Chicago, Ill., assignor to Catalytic Chemical Company, Denver, Colo., a Corporation of Colorado. Original application filed Dec. 14, 1925, Serial No. 75,472. Divided and this application filed Feb. 16, 1927, Serial No. 168,821. Renewed Dec. 8, 1928. 5 Claims. (Cl. 44—9.)

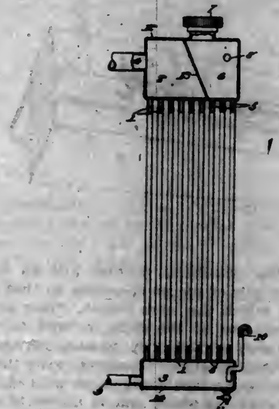
1. The process of treating fuel oil to increase the efficiency thereof which comprises comminuting petroleum coke with a composition of materials comprising naphthalene, anthracene, oil of mirbane, sulfuric acid and sodium hydroxide, and adding the same to the fuel oil and agitating the fuel oil.

1,754,298. CONDENSER FOR INTERNAL-COMBUSTION ENGINES. IRA HUBERT AYRES, New York, N. Y., and HERBERT RIVINGTON PYNE, Bernardsville, N. J. Filed Apr. 13, 1926. Serial No. 101,724. 5 Claims. (Cl. 257—25.)



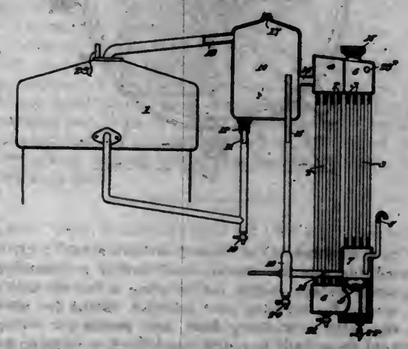
1. An air cooled steam condenser comprising a direct condensing unit having connected upper and lower chambers and a reflux condensing unit having connected upper and lower chambers, the reflux condensing unit being located in proximity to the direct condensing unit, the upper chamber of the direct condensing unit having a steam inlet port and the lower chamber of the reflux condensing unit having a water discharge port and a restricted passage for the escape of the water of condensation from the lower chamber of the direct condensing unit into the lower chamber of the reflux condensing unit.

1,754,299. CONDENSER FOR INTERNAL-COMBUSTION ENGINES. IRA HUBERT AYRES, New York, N. Y., and HERBERT RIVINGTON PYNE, Bernardsville, N. J. Filed Apr. 13, 1926. Serial No. 101,725. 3 Claims. (Cl. 257—25.)



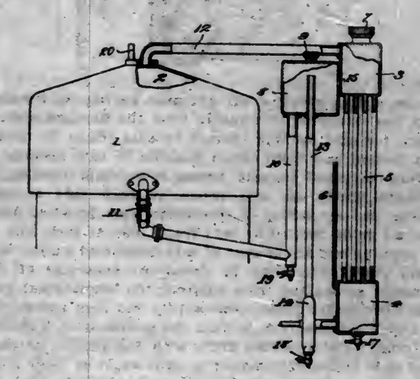
1. An air cooled steam condenser for use in connection with internal combustion engines where the steam generated in the engine water jacket by the heat of the engine is condensed by the cooling effect of the air on the condenser, said condenser comprising direct and reflux condensing passages, the upper chamber of the direct condensing unit having a steam inlet port, the common lower chamber for the direct and reflux condensing units having an outlet port for the water of condensation, and also a water overflow passage having its upper outside end located near the top of the lower chamber and its lower inside end located normally below the water level in the lower chamber whereby any steam which may not be condensed in the direct condensing unit may pass from the lower chamber upwardly into the reflux condensing unit without escaping through the overflow passage.

1,754,300. STEAM-COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. IRA HUBERT AYRES, New York, N. Y., and HERBERT RIVINGTON PYNE, Bernardsville, N. J. Filed Apr. 13, 1926. Serial No. 101,726. 24 Claims. (Cl. 123—174.)



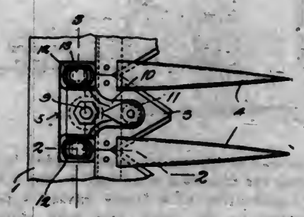
1. In a cooling system for internal combustion engines, a water jacket, a condenser, a reservoir, two circuits, one through the jacket and reservoir and the other through the reservoir and condenser, and means in the last named circuit for lifting the water of condensation from the bottom of the condenser into the reservoir.

1,754,301. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. IRA HUBERT AYRES, New York, N. Y., and HERBERT RIVINGTON PYNE, Bernardsville, N. J. Filed Mar. 2, 1927. Serial No. 172,081. 17 Claims. (Cl. 123—174.)



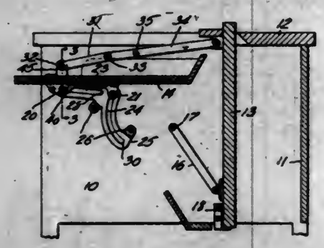
1. In a cooling system for internal combustion engines, a liquid reservoir, a condenser and a cylinder jacket in intercommunication, the cylinder jacket having a vapor escape passage leading directly to the condenser, and the reservoir having a liquid supply passage leading to the cylinder jacket, a liquid overflow passage leading to the condenser and a liquid return passage leading from the condenser, and means in the last named passage for raising the overflow and condensed liquid back into the reservoir whereby the liquid in the reservoir may be maintained at a predetermined level to thereby cause the liquid in the cylinder jacket to be maintained by gravity at substantially a predetermined level under normal operating conditions.

1,754,302. GUIDE CLIP FOR CUTTER BARS. THOMAS J. BARLOW, Albany, Ohio. Filed May 17, 1929. Serial No. 363,863. 1 Claim. (Cl. 56—305.)



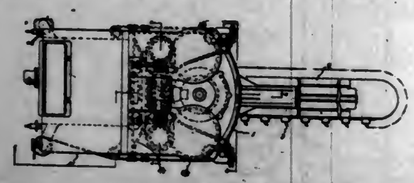
The combination with a guard bar and sickle bar of a mower, of a guide clip mounted on the guard bar and overhanging the sickle bar, wings at opposite ends respectively of the clip, each wing having a slot formed with flared walls, and fastening bolts extending through the slots and guard bar, each bolt having a tapered head adapted to be seated in the slot with its top flush with the top of the wing, there being an angular portion at the inner end of the head constituting means for engaging the adjacent structure and preventing the clip from binding upon the guard bar.

1,754,303. TYPEWRITER DESK. JACOB BODENSTEIN, Herkimer, N. Y. Filed Feb. 12, 1927. Serial No. 167,677. 6 Claims. (Cl. 312—26.)



1. In a typewriter desk, a frame having an opening in its top extending rearwardly from the forward edge, a closure for said opening carried by said frame for movement toward and from closed position in said opening, a platform disposed in said frame below said opening, a horizontal guide on said frame at each side of said opening and extending in directions from front to rear, a second guide carried by said frame also at each side of said opening and at the rear of said horizontal guides, said second guides extending in directions crosswise of the horizontal guides and from adjacent the longitudinal axes of said horizontal guides downwardly and then rearwardly in an inclined direction, so that the guides at each side of the frame form an obtuse angle with one another at their outer ends and approximately a right angle at their adjacent ends, followers carried by said platform and co-operating with said guides to support the platform in an approximately horizontal position when the followers co-operating with the second guides are at the upper ends of those guides, and the followers co-operating when the horizontal guides are well forward on those guides, whereby said platform may be first tilted downwardly at its rear end and then the entire platform shifted rearwardly in said frame, and means connecting said closure to said platform, whereby movement of the closure into closed position causes a tilting of the platform and its rearward movement in the frame to increase the knee space.

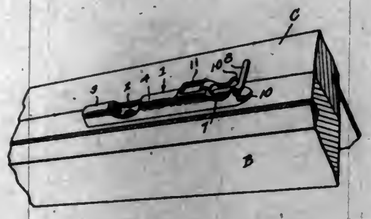
1,754,304. MINING MACHINE. HERBERT A. BUEHLER, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 25, 1926, Serial No. 157,008. Renewed Sept. 12, 1929. 3 Claims. (Cl. 362—30.)



1. In a reversible mining machine adapted to be moved laterally along the face of a mine wall to cut a kerf thereunder, the combination of a frame having a passageway therein opening to the front and both sides of said frame, a cutter bar projecting forwardly of said frame and a detachable element, invertible to close said passageway on either side of said machine allowing the opening on the opposite side of said machine to remain open, said cutter bar remaining in a fixed position relative to said frame.

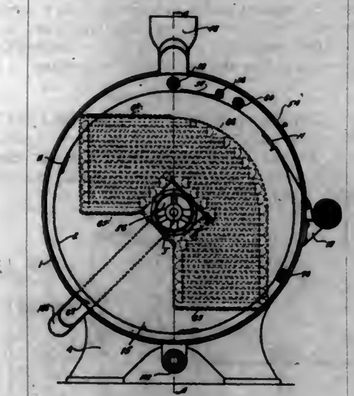
1,754,305. BURGLAR ALARM. WILLIAM BURRELL, Amarillo, Tex. Filed Nov. 22, 1927, Serial No. 235,070. Renewed July 31, 1929. 1 Claim. (Cl. 116—89.)

A burglar alarm comprising a body of substantially semi-circular shape in cross section and having a transverse opening in its top portion adjacent one end of the body, the part between the opening and said end having a bore therein for receiving a cartridge and the opposite wall of the opening having a circular hole therein, a firing pin comprising a cylindrical member having a pointed outer end guided in said hole and a substantially L-shaped stem connected with the cylindrical member and passing through the body, the end of the body farthest removed from the transverse opening having a hole therein through which the stem passes, a spring encircling the stem and



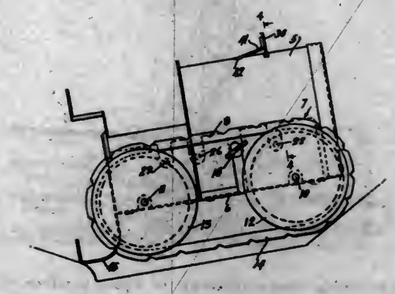
bearing against the cylindrical member and an interior wall of the body, a pair of spaced shoulders on that end of the body through which the stem passes, either shoulder engaging the short arm of the stem to hold the firing pin retracted, a part of the stem passing between the shoulders and a loop pivotally connected with the body and adapted to be swung into engagement with the short arm of the stem when the short arm is moved to a position to free it of the shoulders to hold the firing pin retracted.

1,754,306. ROTARY RUG WASHING AND FINISHING MACHINE. EMIL J. CARROLL, Norwood, and GEORGE W. JOHNSON, Bond Hill, Ohio, assignors to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 15, 1927. Serial No. 213,076. 10 Claims. (Cl. 15—40.)



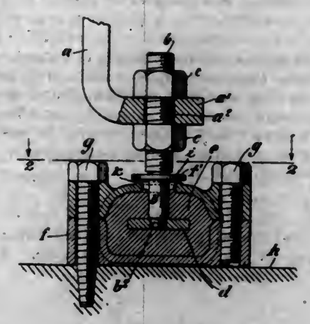
1. In a machine of the class described, a tub, a cylinder mounted for rotation therein and having a foraminated peripheral surface, means for securing a rug on said surface, means for rotating said cylinder, means for wetting said rug with a washing fluid, and means for wringing said fluid from said rug and comprising a wringer roller mounted in said tub for movement to pressure applying position against said rug during rotation of said cylinder.

1,754,307. TOY TRACTOR. RUSSELL D. CONROY, Waterbury, Conn., assignor to Ferdinand Strauss, Inc., New York, N. Y., a Corporation of Connecticut. Filed Aug. 2, 1929. Serial No. 382,947. 6 Claims. (Cl. 46—48.)



5. In combination with a toy tractor, a trailer, comprising a plate secured to the tractor body, and a resilient extension on the said plate extending rearwardly of the body, for the purpose specified.

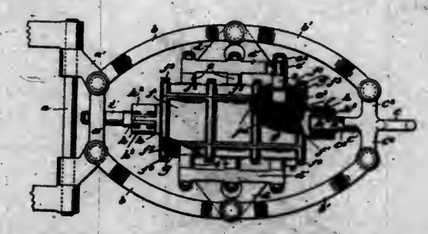
1,754,308. MACHINE-UNIT SUPPORT. ROBERT F. COWELL, Teaneck, N. J., and RODGER W. DAVIS, Flushing, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1928. Serial No. 269,259. 2 Claims. (Cl. 248—16.)



2. A device for supporting a machine on a base, comprising a housing having a portion adapted to abut against the base and an apertured cover portion adapted to co-operate with the first named portion to form an interior closed except for the aperture, a bracket, a member carried by the bracket and extending through the aperture, yielding, non-metallic material in the housing, common means external of the housing to secure the cover to the housing to place the yielding, non-metallic material under compression and to secure both portions of the housing to the base, and an enlarged portion on the end of said member seated in and surrounded by the yielding, non-metallic material.

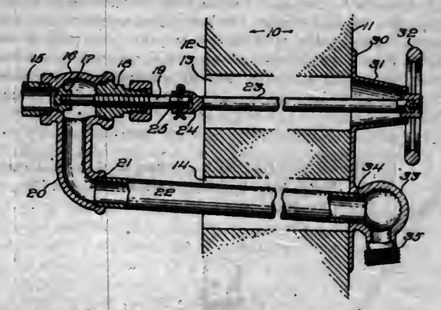
1,754,309. SHOCK-INSULATOR DRAWBAR. ROBERT F. COWELL, Teaneck, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1928. Serial No. 322,661. 8 Claims. (Cl. 280—33.9.)

3. A force transmitting connection comprising means to engage a force exerting member, centering means projecting therefrom, means to engage a member upon which a force is to be exerted, centering means projecting therefrom, a plurality of links pivoted to each engaging means, a housing, yielding non-metallic material in the housing, bearing pads received in the yielding material



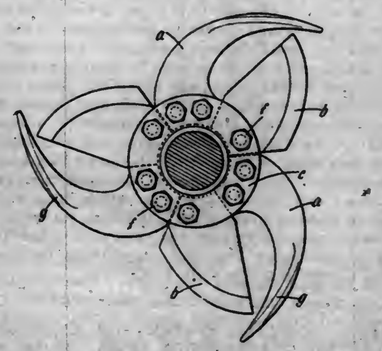
and pivoted to the pivot point of the links, and yielding non-metallic means carried by the housing and engaging the centering means.

1,754,310. WATER HYDRANT. HENRY C. ELLENBERGER, Detroit, Mich. Filed Feb. 11, 1929. Serial No. 338,995. 5 Claims. (Cl. 251—156.)



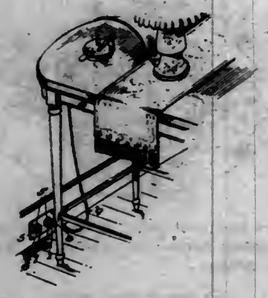
1. A device of the class described comprising a fitting, a valve in said fitting, means for operating said valve adapted to extend through a wall, a conduit disassociated from said valve operating means, releasably connected to the discharge port of said fitting and adapted to extend through a wall, said valve operating means having a disconnectable joint adjacent said fitting.

1,754,311. ROTARY TILLING MACHINE. EDWARD HAMMOND WHALLEY FOOT, Lincolnshire, England. Filed July 3, 1929, Serial No. 375,775, and in Great Britain May 24, 1928. 2 Claims. (Cl. 97—212.)



1. A rotary tilling machine in which a plurality of digging tines and a similar number of cutting blades are arranged alternately in a single bracket on a rotary shaft, the tines and cutting blades both being separate units from the hub on which they are mounted.

1,754,312. TWO-PIECE ELECTRICAL CONNECTION PLUG. STUART G. GARRETT, Tulsa, Okla. Filed Sept. 25, 1928. Serial No. 308,257. 6 Claims. (Cl. 173—343.)



1. A two-piece electrical plug connection comprising a socket member having electrical terminal recesses, and an annular shoulder formed on the interior wall of the socket, said shoulder having a slot extending therethrough, an annular rim on said socket extending outwardly from said shoulder, and a plug member whose inner end portion fits snugly within said annular shoulder and bears contact prongs, said plug having a radially extending lug to enter into said slot when said prongs register with said terminal recesses.

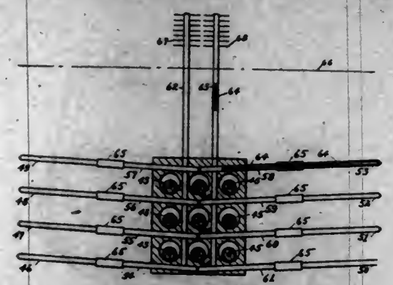
1,754,313. HARNESS BUCKLE. AMOS L. GARRIS, Greenville, N. C. Filed Nov. 9, 1927. Serial No. 232,139. 1 Claim. (Cl. 54—54.)



A back band buckle comprising a substantially oblong plate provided at the center of its upper edge with an upwardly projecting lug and having a long narrow longitudinal slot spaced from the upper edge adapted to receive a looped portion of a back band to permit the same to be secured to the plate by a pin, a narrow continuous metal strip arranged vertically and secured at one end to the said lug above the slot and at its other end to the plate below the slot and doubled to form upper and lower loops which extend above and below the plate, the latter connecting the terminals of the strip and closing the said loops and extending a sufficient distance in advance and in rear of the strip to accommodate wide back bands, the lower loop being narrower than the upper loop and adapted to receive a trace and prevent the same from twisting, the upper loop being of greater width than the lower loop and forming a rein guide, and means extending across the upper loop to support the reins and connecting the sides of the upper loop and constituting the fastening means for securing the strip to the lug.

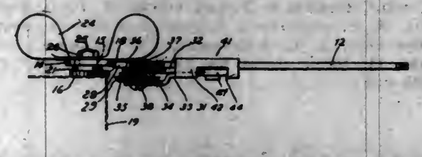
1,754,314. COOLING SYSTEM FOR UNDERGROUND ELECTRIC TRANSMISSION LINES. FRAZER W. GAY, Newark, N. J. Filed Apr. 28, 1928. Serial No. 273,637. 8 Claims. (Cl. 247—3.)

1. Means for cooling electrical conduits comprising, cooling tubes having their lower portions in the proximity of the conduits to be cooled and their upper portions extending away from the conduits for the purpose of conducting heat away from the latter, said tubes being hermetically sealed and containing a volatile liquid and



fluid retaining means adjacent the upper portions of said tubes and adapted to retain a cooling fluid for effecting the cooling of the upper portions of said tubes.

1,754,315. CAN OPENER. ALBERT C. GRUNWALD, River Forest, Ill., assignor to Precision Metal Workers, Chicago, Ill., a Corporation of Illinois. Filed Mar. 23, 1925. Serial No. 17,482. 12 Claims. (Cl. 30—3.)



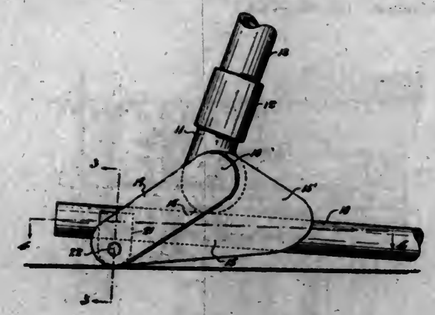
1. In a can opener, the combination of a shank, a feeding wheel pivotally supported adjacent one end of said shank, means for rotating said feeding wheel, a slide mounted on said shank, means for moving said slide towards and away from said feeding wheel, a pivot carried by said slide, a cutting disc on said slide, and an independently rotatable backing wheel on said pivot.

1,754,316. WINDOW CONSTRUCTION. FRED HAMILTON, Beaumont, Tex. Filed Feb. 10, 1928. Serial No. 253,400. 9 Claims. (Cl. 20—49.)



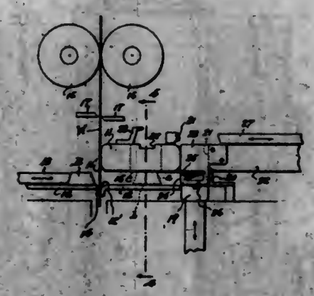
1. A window construction comprising a frame, a sash movably mounted within the frame, means connecting the sash with the frame and adapted for reversing the sash, and counterbalance means connected with said means for assisting in the reversal of said sash.

1,754,317. BENDER FOR THIN-WALL CONDUITS. ROBERT HALSEY HENDERSON, East Orange, N. J. Filed Nov. 21, 1928. Serial No. 320,926. 3 Claims. (Cl. 81—15.)



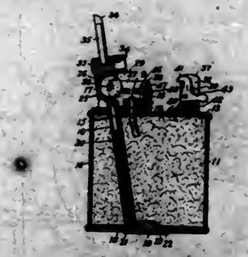
1. A hand bender for thin wall conduit, comprising a curved element having a handle lever extending therefrom, said element having integral side flanges forming therewith a peripheral main bending groove, said flanges being laterally spaced apart for a distance slightly exceeding the diametric elastic limit of the conduit to be bent, said bending groove having clearance spaces intermediate the bottom of its seat where the conduit to be bent impinges and the sides thereof as formed by said spaced flanges; and a supporting member forwardly off-set beyond said main bending groove at a distance equivalent to two to three times the diameter of the conduit to be bent; said supporting member having a bearing groove of substantial length to receive and engage the conduit to be bent, said bearing groove having a bottom contour corresponding to the normal cross-sectional circumference of the conduit to be bent, a width substantially equivalent to the cross-sectional diameter of said conduit, and a depth exceeding the cross-sectional radius of said conduit.

1,754,318. PACKAGING MECHANISM. GEORGE I. HOHL, Newport, R. I., assignor to Cartoning Machinery Corporation, Newport, R. I., a Corporation of New Jersey. Filed Aug. 15, 1928. Serial No. 299,679. 7 Claims. (Cl. 93—2.)



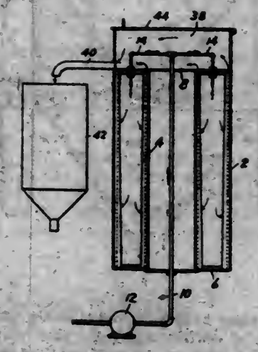
3. In a packaging mechanism, a stationary folder block having a bottom face, a rear side face and a top face respectively bounding successive portions of a path through which an article and wrapper therefor may be moved to produce successive longitudinal folds of said wrapper around the article; means contiguous to the path of movement of said article about said folder block adapted to form end folds of the wrapper; and means for moving said article and its wrapper relative to said faces of the folder block and to the end fold forming means.

1,754,319. LIGHTER. JOHN HOLTZMAN, New York, N. Y. Filed Sept. 8, 1927. Serial No. 218,168. 11 Claims. (Cl. 67—7.1.)



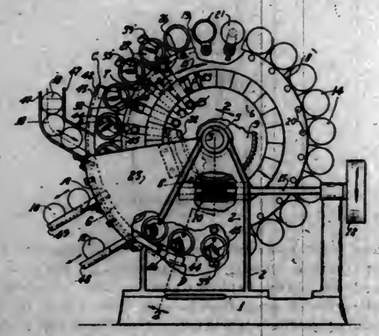
6. In a lighter, a fuel container of substantially rectangular outline having a substantially flat top and bottom, a tube within said container, a block of pyrophoric material yieldably supported in said tube, a pair of parallel spaced projections upstanding from said top near one end thereof, a shaft passing through said projections, an abrading wheel mounted on said shaft between the projections, a wick projecting above said top adjacent said wheel, a cover member for the wheel pivotally mounted on said shaft and having depending sides arranged between said projections and said wheel and having a top to cover the wheel, an extension on said cover member of sufficient length to extend close to the other end of said top, a snuffing cap carried by said extension intermediate of the ends thereof to cover the wick, said extension being shaped at its extreme free end to permit the locking thereof in place, a post at said other end of said top, a spring-pressed element mounted in said post and being substantially enclosed thereby, said element being arranged to be engaged and moved in one direction by the extreme shaped end of said extension when said cover member is swung on its pivot to cap the wick and extinguish the light, and to move automatically in the other direction for engaging and locking said extreme shaped end of the extension.

1,754,320. FILTER. ALFRED HOPKINS, Philadelphia, Pa., assignor to Hopkins-Tull Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1928. Serial No. 327,321. 3 Claims. (Cl. 210—184.)



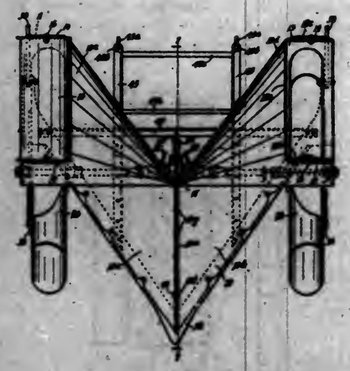
1. A filter comprising a casing including inner and outer walls forming a continuous annular chamber and a discharge chamber above and communicating with the annular chamber, intake piping extending into the casing, and a plurality of filter bags within the chamber constructed to conform to the shape thereof and substantially fill the same, the intake piping communicating with the interiors of the bags and serving to support the same, passages being provided to guide filtrate to the discharge chamber.

1,754,321. CAN-TESTING MACHINE. AXEL JOHNSON, Oakland, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed Dec. 4, 1926. Serial No. 152,591. 16 Claims. (Cl. 73—51.)



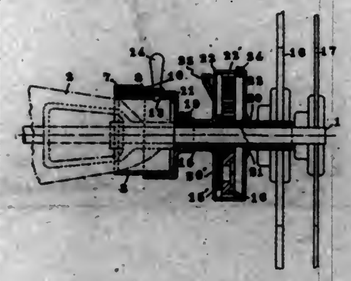
1. An apparatus for testing can or container bodies and separating the leaky from the non-leaky, comprising an endless traveling support, vacuum creating means carried thereby and movable therewith, means within the path of travel of the vacuum creating means for delivering a can to be tested into cooperative relation therewith, means for operating the vacuum creating means for producing a vacuum within the can sufficient to retain the can in suspended cooperative relation therewith, means for operating the vacuum creating means to reduce to approximately normal the initial vacuum produced therein to permit the can to drop by gravity from its operative position should air have leaked thereinto.

1,754,322. SNOWPLOW WITH TOP DISCHARGE. JOHN O. JOHNSON, Minneapolis, Minn., assignor, by mesne assignments, to Enterprise Holding Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 6, 1926. Serial No. 120,603. 17 Claims. (Cl. 37—43.)



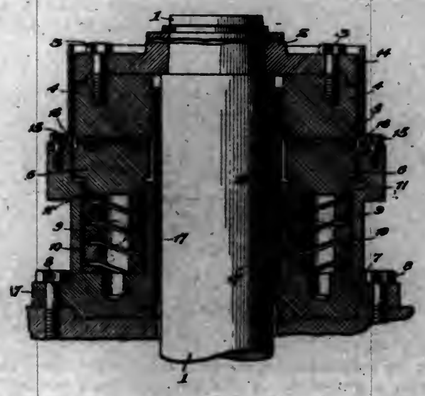
17. A snow plow having in combination, a front prow portion having a central upwardly and rearwardly inclined rectilinear edge, a curved mold board extending laterally and rearwardly from each side of said edge, a semi-cylindrical casing at the outer end of each mold board extending continuous therewith, a vertical plate at the outer side of each of said casings, shafts extending transversely of said mold boards and casings and concentric therewith, rotary snow propelling means carried by each shaft and disposed in said casings and conduits extending vertically from each of said casings open at their upper ends through which snow is discharged by said propelling means.

1,754,323. COLOR-PROJECTION APPARATUS FOR CINEMATOGRAPHS. REGINALD KILLICK, London, England, assignor to The K. & S. Syndicate Limited, London, England, a British Company. Filed Apr. 20, 1923, Serial No. 633,433, and in Great Britain June 26, 1922. 5 Claims. (Cl. 88—16.4.)



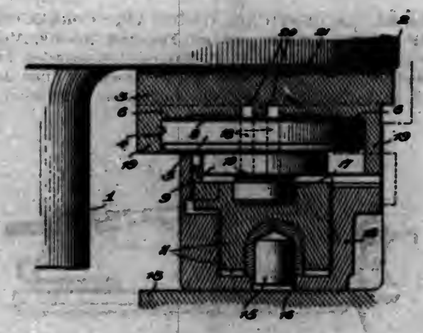
1. In combination with a cinematographic device having a revoluble spindle, an attachment therefor comprising, a stationary sleeve member, an angularly adjustable cup-shaped member frictionally engaging said sleeve, an intermediate gear, an intermediate gear support secured to the cup-shaped member on which the intermediate gear turns, a driving gear on said spindle meshing with the intermediate gear, a driven gear meshing with the intermediate gear, an enclosing casing for the gears secured to and revolving with said driven gear, a shutter secured to the casing, and manual means carried by the cup-shaped member for adjusting the position thereof to vary the angular position of the intermediate gear support to position the openings in the shutters.

1,754,324. BEARING. ALBERT KINGSBURY, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed June 23, 1922. Serial No. 570,380. 41 Claims. (Cl. 308—160.)



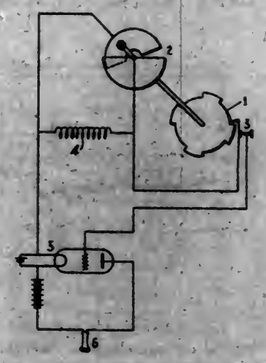
1. A bearing including relatively movable bearing members, elastic means supporting one or more of said bearing members in bearing engagement with their relatively movable bearing members, and means to dampen oscillatory movement of said bearing members.

1,754,325. BEARING. ALBERT KINGSBURY, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 8, 1927. Serial No. 182,112. 37 Claims. (Cl. 308—160.)



1. In a bearing, relatively rotatable bearing members including one or more bearing segments weakened at their backs by a plurality of passages through which oil may circulate.

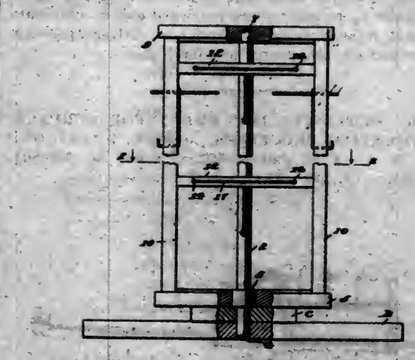
1,754,326. ARRANGEMENT FOR WIRELESS TELEGRAPHY AND TELEPHONY. AUGUST LEIB, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Mar. 26, 1923, Serial No. 627,828, and in Germany July 4, 1922. 10 Claims. (Cl. 250—27.)



1. In a high frequency receiving system, a resonant circuit, means for varying the tuning of the circuit, a second circuit, and means operated by said tuning varying means for breaking said second circuit to prevent reception at certain wave lengths.

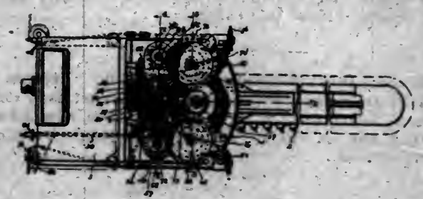
1,754,327. PAPER-BAG HOLDER. CARL A. LEONARD, Bristol, Tenn. Filed Mar. 19, 1929. Serial No. 348,292. 3 Claims. (Cl. 211—53.)

1. A bag holder comprising in combination a rack having a cross bar provided with spaced perforations, a bag holder of U-shape having a front bar which is bent inwardly to engage the face of said supporting member, and thence bent outwardly to form a loop-like handle, a cross bar connecting the inner terminals of said limbs, a forked guide



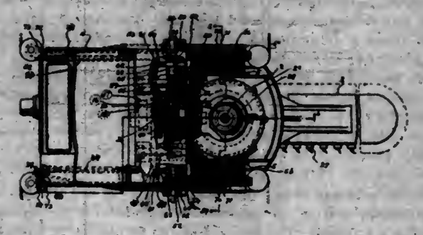
rigidly secured to the back face of said supporting member embracing and guiding said bar, and a spiral spring confined between said supporting member and bar.

1,754,328. MINING MACHINE. FRANK A. LINDGREN, Western Springs, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 25, 1926, Serial No. 157,006. Renewed Sept. 12, 1929. 8 Claims. (Cl. 262—30.)



6. The combination with a kerf cutting mining machine, of feed operating mechanism therefor comprising a driving motor slidable on its bottom on a mine bottom, two rope drums arranged on vertical axes at opposite sides of said machine forward and beneath the uppermost extremities of said driving motor, and a single frictionally controlled variable speed reduction gearing interposed between said motor and said drums for driving each of said drums at the same speed in the same direction.

1,754,329. MINING MACHINE. FRANK A. LINDGREN, Western Springs, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 25, 1926, Serial No. 157,007. Renewed Sept. 12, 1929. 10 Claims. (Cl. 262—30.)



1. The combination in a mining machine of a main frame, a bearing shoe on the forward portion of said

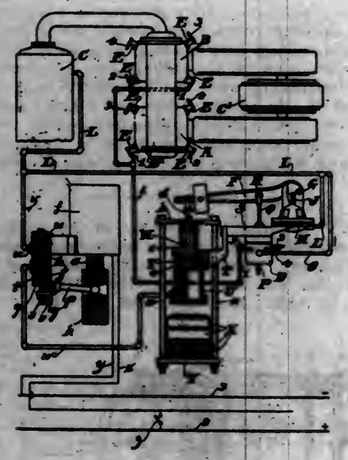
frame for supporting said frame for slidable movement on a mine bottom, a motor rearward of said main frame slidable on its botton on a mine bottom and serving as the main supporting means for the rearward end of said main frame, said frame having a bottomless cuttings passageway intermediate said motor and said shoe.

1,754,330. OUTLINING IMPLEMENT FOR SURFACE-ORNAMENTING PROCESSES. JOHN L. LITOMY, Glen Ridge, N. J. Filed July 6, 1928. Serial No. 290,861. 2 Claims. (Cl. 219—21.)



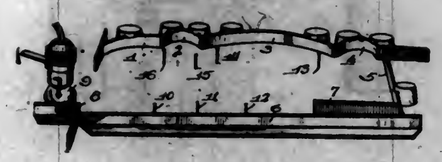
1. A machine of the character described comprising a substantially cylindrical reservoir to receive lumps of wax, a tubular coaxial heat insulating handle secured to one end thereof of a size and shape to be gripped like a fountain pen, an outlet nozzle projecting longitudinally from the other end adjacent one side thereof an electric heater within said reservoir for heating the contents thereof and disposed at one side of the reservoir adjacent said nozzle, and electrical wires connected to said heater and passing through said handle.

1,754,331. DUAL-PRESSURE UNLOADER. CHESTER W. METZGAR, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 21, 1927. Serial No. 234,698. 9 Claims. (Cl. 230—4.)



1. In a compressor, the combination of a cylinder and compressor piston, an automatic unloader for the cylinder having a movable member responsive to discharge pressure, a regulating cylinder and fluid actuated piston therein located adjacent said movable member, a plunger in said regulating cylinder cooperating with the piston, weights continuously carried by the plunger, a loose connection between the plunger and said movable member, and means for controlling the supply of pressure fluid to said regulating cylinder, whereby the weights may be transferred to the movable member and released therefrom.

1,754,332. ACOUSTICAL STUDY AND CORRECTION OF AUDITORIUMS. RALPH FORBUSH NORRIS, Madison, Wis., assignor to C. F. Burgess Laboratories, Inc., Madison, Wis., a Corporation of Delaware. Filed Apr. 13, 1927. Serial No. 183,343. 14 Claims. (Cl. 35—12.)



1. An apparatus for showing the paths and intensity of sound waves from a given source in a room, comprising a plane surface on which is mounted a miniature fence-like member having the contour of a cross-section of said room, in combination with a source of light positioned at a point corresponding to the point of sound emanation in said room.

1,754,333. BOLT ANCHOR. HENRY W. PLEISTER, Westfield, and JOHN KARITZKY, Garwood, N. J., assignors to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Filed Feb. 15, 1929. Serial No. 340,278. 2 Claims. (Cl. 85—24.)



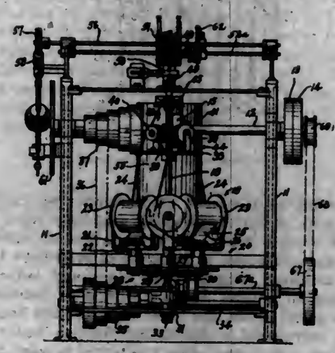
2. A new article of manufacture comprising a ductile anchor, provided with a body member and a plurality of tines and an axial bore, primary longitudinally extending ribs mounted on the interior of the tines, but not extending into the body member, secondary longitudinally extending ribs mounted on the interior of the tines and extending in from the inner end of the bolt anchor in the same direction as the primary longitudinally extending ribs, but of less length, the tines being provided with longitudinally extending grooves or voids, but not extending to the innermost end of the tines, to insure flexibility of the tines and easy entrance into the bolt anchor of a relatively large screw, the innermost ends of the tines being ungrooved to increase the pressure of the anchor against an operating screw and against the surface of a hole, thereby giving a more powerful gripping expansion at the inner end of the anchor away from the face of a support and concentrating the hardest turning of a screw to the minimum number of turns when the screw is about set up.

1,754,334. SURVEYING ROD. JOSEPH QUIGLEY, Norris, Ill. Filed May 18, 1928. Serial No. 278,702. 8 Claims. (Cl. 33—74.)



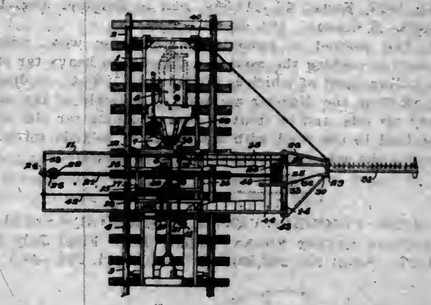
1. A surveying rod comprising open frame members having a strip of diaphanous material therebetween, said strip having a measuring scale thereon.

1,754,335. CORD MACHINE. HERMAN P. RUF, New York, N. Y. Filed Feb. 8, 1929. Serial No. 338,425. 2 Claims. (Cl. 117—46.)



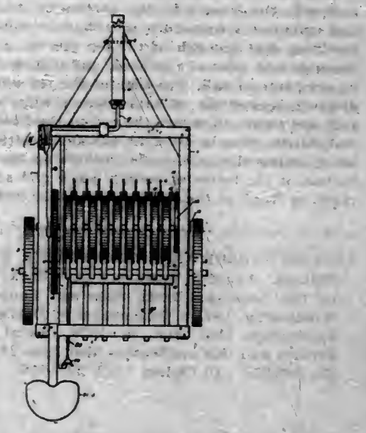
1. A cord making machine comprising a flier, a plurality of strand carrying spools rotatably mounted thereon, means to twist the strands into a cord, means to equalize the feed of the strands from the separate spools, the last mentioned means including separate friction rollers for the strands, and gears interengaging said rollers to cause them to rotate at constant ratio, a main drive for the flier, a gear train interconnecting the spools to rotate the same, a second drive connected to the main drive for operating the gear train, said second drive being adjustable to vary the speed of rotation of the spools, means to pull the finished cord through the machine adjustably connected with the main guide, a can for receiving the finished cord, a rotary support for the can, and means to rotate said support.

1,754,336. RAILWAY MOWER. ERNEST SACK, Waverly, Iowa. Filed Dec. 1, 1927. Serial No. 237,037. 4 Claims. (Cl. 56—232.)



1. In combination, a wheeled chassis, mechanism mounted thereon for propelling it, an elongated frame movable across and upon said chassis to different positions of lateral adjustment, a sickle-device mounted terminally upon said frame to be swung vertically, means for actuating the sickle of said device disconnectibly operatively connected to said propelling mechanism, a cable connected to said sickle-device for eliminating side draft thereon, and a winding-drum on said frame upon which the cable is windable.

1,754,337. BEAN RAKE AND BUNCHER. ROY STAMPFLY, Lansing, Mich. Filed Feb. 14, 1927. Serial No. 168,126. 1 Claim. (Cl. 56—364.)

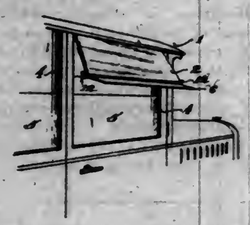


In a bean rake and buncher, the combination with an axle, of wheels thereon, a frame supported by the said wheels and axle, a tongue, a pivotal connection between the said frame and tongue, hand operated means for tilting the frame with respect to the tongue, a shaft carried by the frame between the said axle and the front of the frame, a cylinder borne by the said shaft and comprising spaced annular flanged members, means driven by the axle for revolving the said cylinder in a direction contrary to the direction of the revolution of the axle, rake teeth located between the flanges of adjoining annular members, revoluble crank rods carried by the said cylinder and having the said teeth attached thereto, a cam carried by the frame near the end of the cylinder, the said rods having rollers cooperating with the cam whereby the teeth are alternately radially held and released, means carried by the axle and cooperating with the said annular members to remove vines from the said cylinder, and vine receiving and dumping devices.

1,754,338. PROCESS FOR REMOVING MARKS ON WOOL. GUILLAUME JEAN MARTIN STEINS and RICHARD HENRI MARTIN STEINS, Brussels, Belgium. Filed Aug. 13, 1927, Serial No. 212,830, and in Belgium Aug. 18, 1926. 6 Claims. (Cl. 87—6.)

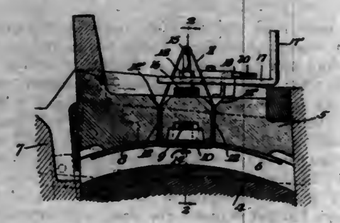
1. The method of removing marks from wool, which consists in soaking the wool in a digester in heavy tar oils the boiling point of which is higher than 100° C., in drawing off from the digester as much as possible of the said heavy tar oils, and in treating the remaining tar oils still contained in the wool with a mixture of volatile solvents whereby the said remaining tar oils are dissolved.

1,754,339. COMBINED VENTILATOR AND SUN SHIELD. RICHARD ERNEST SWANN, Dallas, Tex. Filed July 15, 1927. Serial No. 205,991. 1 Claim. (Cl. 296—44.)



In a device of the type set forth, a hood having a top and ends, the front side edge portion of the top being free and extended downwardly, a U-shaped cushioning member receiving said free side of the top therein, a rod extending through said ends of the hood, and disposed substantially in the plane of said free edge of the top and located at a distance rearwardly of said edge, a wing secured to the rod, and means to secure the rod to the hood ends thereby to hold the wing in different adjusted positions, said wing being engageable with said cushioning member and the bottom of the latter extending below and at a spaced distance in front of the rod to protect the rod.

1,754,340. INSERT-HOLDING DEVICE FOR CASTING MOLDS. JAMES S. THOMPSON, New York, N. Y., assignor to The American Brake Shoe and Foundry Company, Wilmington, Del., a Corporation of Delaware. Original application filed Apr. 9, 1926, Serial No. 100,821. Divided and this application filed June 28, 1928. Serial No. 288,913. 10 Claims. (Cl. 22—116.)



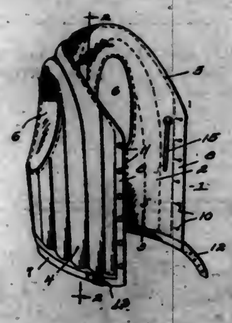
1. A mold for making castings and comprising a cope, means for holding in the cope an insert to be embedded in the casting, and adjustable means operatively engaged with said holding means for tightening the holding means to securely hold the insert rigidly in position.

1,754,341. CONCEALED HINGE. HAGOP PUSANT TEVONIAN, Brooklyn, N. Y. Filed Jan. 25, 1928. Serial No. 249,416. 1 Claim. (Cl. 16—164.)



A hinge comprising a main linkage including side plates, intermediate plates, one end of each of which is pivotally connected to one of the side plates at corresponding ends thereof and the other ends are pivotally connected together, and a controlling linkage including cross links pivotally connected at their centers to centers of said intermediate plates, and connecting links pivotally connected at their outer ends with center points of said side plates, the other end of each connecting link being pivotally connected to one end of one of said cross links, and the other ends of the cross links being pivotally connected together.

1,754,342. SWIMMING JACKET. ANTHONY TUBIOLO, Columbus, Ohio. Filed Aug. 17, 1928. Serial No. 300,323. 3 Claims. (Cl. 9—20.)

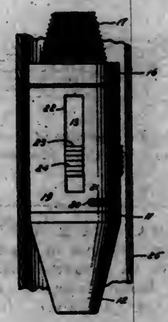


3. A swimming jacket of the character set forth comprising a body of flexible material, said body being formed to include spaced inner and outer layers of water-proof air retaining character, a perforate intermediate layer of material arranged between said inner and outer layers and serving to govern relative movement between said inner and outer layers, the outer layer of said body being vertically corrugated or fluted to diminish water resistance against said jacket when the latter is worn inflated, and a valve for introducing an inflating gas into said jacket carried by the inner layer of the jacket forming material and adapted to be concealed from view when the jacket is applied.

1,754,343. PROCESS OF MAKING FRICTION FACINGS. EDWIN E. WAITE, Framingham, Mass., assignor to Multibestos Company, Walpole, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1929. Serial No. 333,081. 14 Claims. (Cl. 92—21.)

1. A friction facing comprising a shaped body of unwoven felted asbestos fibre and a binder distributed substantially uniformly throughout said body and cured by heat, said facing also having a pulverized lubricating filler distributed substantially uniformly throughout the body portion thereof.

1,754,344. FISHING TOOL. MILLIO FRANK ALOI, Huntington Park, Calif., assignor to John Grant, Los Angeles, Calif. Filed Oct. 3, 1928. Serial No. 309,968. 6 Claims. (Cl. 294—86.)

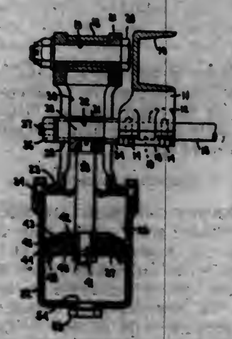


1. A fishing tool comprising; a mandrel provided with a downwardly and outwardly tapered surface, and with a longitudinal peripheral groove extending downwardly from the upper portion of the mandrel; a cage having a longitudinal slot therethrough, outside of the mandrel and rotatable about the axis thereof; and a longitudinally slidable jaw within said slot, normally engaging the tapered surface of the mandrel and adapted for retraction within said groove when the cage is rotated.

1,754,345. CATALYTIC OXIDATION OF AMMONIA. OTTO BALZ, Ludwigshafen-on-the-Rhine, and FRITZ REUSCHER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 3, 1925, Serial No. 48,006, and in Germany Dec. 22, 1924. 3 Claims. (Cl. 23—162.)

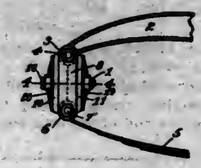
2. The process of catalytically oxidising ammonia which comprises passing a mixture of ammonia and oxygen containing about 10 percent ammonia through a heated catalytic mass whereby the ammonia is oxidized to form oxides of nitrogen, withdrawing part of the mixture rich in nitrogen oxides and leading the residual gases over again through the catalytic mass after adding a volume of oxygen and ammonia corresponding approximately to the amount of gas mixture withdrawn.

1,754,346. PNEUMATIC SHOCK ABSORBER. FRANK H. BLAKESLEE, Cleveland Ohio. Filed Mar. 14, 1927. Serial No. 175,118. 3 Claims. (Cl. 267—32.)



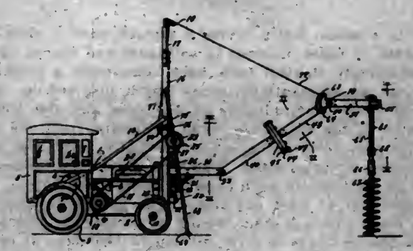
1. In a shock absorber, the combination of a vertical cylinder, an extension on the upper end thereof, means for connecting said extension to a vehicle spring eye, a piston mounted in said cylinder, means guided by said extension and secured to said piston for connecting the latter to the vehicle frame, said means being positioned between the spring eye connection and said piston, a lateral extension at one side of said cylinder providing a hollow chamber, a passageway communicating said chamber with the interior of the cylinder, means including a liquid column acting against the bottom of said piston, and means for maintaining said liquid column under pressure in said chamber.

1,754,347. ANTIRATTLE SPRING DEVICE. HENRY E. BLOMGREN, Brooklyn, N. Y. Filed Mar. 12, 1928. Serial No. 261,072. 6 Claims. (Cl. 267—30.)



1. The combination with a spring shackle formed of side links that connect and support upper and lower sleeve members by bolts, of a composite block of rubber compressed between said two pairs of opposed members on its four outer walls respectively, the block being formed of two complemental sections in engagement on the plane of the sleeve bolts, the composite block being provided with a channel on each of two opposite sides to engage said sleeve respectively, the other two opposite side walls of the composite block being inclined inwardly to the meeting faces of the sections to form a channel for engagement with the side links respectively, the composite block having a central transverse aperture, and a bolt projecting through said aperture to draw the sections together under compression against the said four engaged walls of the shackle.

1,754,348. POWER TOOL. LOUIS I. BROWNE, Toledo, Ohio. Filed Apr. 1, 1927. Serial No. 180,179. 7 Claims. (Cl. 255—19.)



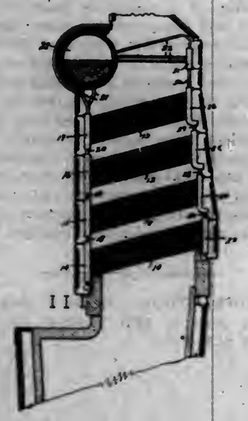
1. A vehicle, a mast thereon, a boom from said mast comprising a plurality of sections having adjustable range and angle cooperation therebetween, a tool carrier mounted on the boom, means for adjusting the boom by swinging in a horizontal arc as to the mast, and a power transmission from the vehicle to the carrier for rotating the carrier.

1,754,349. ELECTRIC SWITCH. GOTTFRIED BRÜHLMANN, Baden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri and Cie., Baden, Switzerland. Filed Oct. 29, 1923, Serial No. 671,583, and in Germany Nov. 6, 1922. 9 Claims. (Cl. 200—87.)



1. In an electric switch, a pair of cooperating relatively movable contacts each provided with a series conductor portion in the form of a coil, said coils being similarly-wound, the respective contacts being formed as a split ring connected to the end of its own conductor portion.

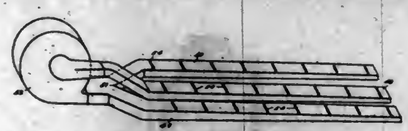
1,754,350. STEAM BOILER. HORACE E. BUNKER, Plainfield, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 21, 1925. Serial No. 70,488. 3 Claims. (Cl. 122—299.)



1. In a steam boiler having a tapered pass, a plurality of banks of tubes disposed in said pass and spaced apart longitudinally thereof, each bank comprising a plurality of tubes of substantially equal length disposed in rows spaced apart longitudinally of the pass and the length of tubes in the successive banks decreasing from one end of the pass toward the other, vertically extending substantially straight water chambers disposed at opposite ends of the tubes in each bank and connected thereto, the chambers on at least one side of the pass being stepped with respect to each other, means connecting the chambers of successive banks to form continuous chambers at opposite sides of the pass, a steam and water drum, and connections from the upper ends of said chambers to said drum.

1,754,351. DRYING KILN. J FORREST COBB, Portland, Oreg., assignor to Moore Dry Kiln Company, a Corporation of Florida. Filed July 21, 1924. Serial No. 727,305. 1 Claim. (Cl. 34—46.)

1. In a drying kiln, the combination with enclosure-defining walls, of means for causing continuous circulation of a gaseous drying medium within said enclosure, said means consisting of air delivery and return ducts, and fan mechanism in operative communication therewith, re-



spectively, said ducts consisting of metallic members separably insertable into openings provided in said enclosure for their reception.

1,754,352. RAILWAY-TRACK TIE. JOHN J. DIXON, Fairmont, W. Va., assignor of one-half to Samuel Cornell, Fairmont, W. Va.; Francis J. Hession administrator of said John J. Dixon, deceased. Filed Dec. 18, 1928. Serial No. 326,726. 8 Claims. (Cl. 238—10.)



1. In a metallic industrial tie the combination of a tie body having end rail anchoring flanges thereon, the tie body inwardly of each of said flanges in spaced relation therewith having an opening with facing sockets at opposite sides thereof, and clamps having lugs pivoted in said sockets, each clamp including a flange extending from the pivoted portion thereof towards the adjacent flange first mentioned, in overhanging relation with the tie body, and a shank opposite the pivot of the clamp extending beneath the tie body in position to be engaged by the roadbed to hold the flange of the clamp against a rail.

1,754,353. ELECTRIC WELDING TOOL. JACOB ENDEBAK, Chicago, Ill. Filed Nov. 26, 1927. Serial No. 235,914. 6 Claims. (Cl. 219—8.)

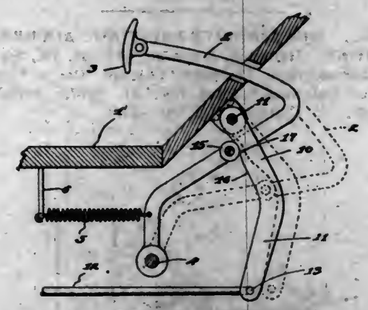


1. A control device for brakes, or the like, comprising a rable into sections adapted to be grasped by the hand and a shank, an electrical terminal disposed in each section and the sections of the handle effecting an electrical connection when joined.

1,754,354. BRAKE-CONTROL MECHANISM. ROBERT S. GANS, Detroit, Mich. Filed July 28, 1926. Serial No. 125,379. 5 Claims. (Cl. 74—81.)

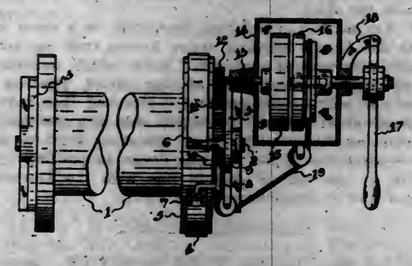
1. A control device for brakes, or the like, comprising a lever, a pivoted link having a cam surface, brake means connected to the link, engaging means on the lever for slidably engaging the cam surface so that movement of the lever rocks the link and actuates the brake means, the said lever and link being positioned and coordinated so that a line drawn through the fulcrum point of the lever, the point of engagement with the cam surface and

the pivotal point of the link forms an angle which progressively changes and approaches a right angle as the brakes are applied with the line drawn through the fulcrum point of the lever and said engaging means progressively



approaching parallelism with the line of pull by the brake means whereby the brake tension is overcome in the main by the fulcrum point of the lever and pivot point of the link.

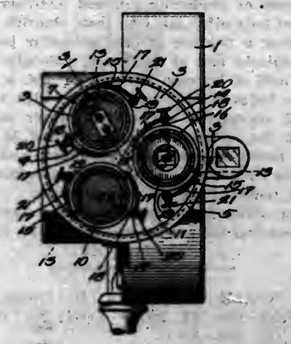
1,754,355. BRAKE MECHANISM. WILLIAM JOHN GRESON, Port Colborne, Ontario, Canada. Original application filed Oct. 16, 1926, Serial No. 142,105. Divided and this application filed Dec. 15, 1927. Serial No. 240,220. 1 Claim. (Cl. 188—140.)



In brake mechanism, the combination with a support; a drum rotatably mounted in said support; a brake band adapted to frictionally engage said drum and having one end connected to said support; a lever pivoted intermediate its ends and having one end connected with the other end of said brake band; a gear rotatable with said drum; a rotatable shaft; a pinion rotatable with said shaft and meshing with said gear; a friction disk fast on said shaft; a friction disk rotatable on and slidable axially of said shaft; cable having one end connected to and adapted to be wound on said second mentioned friction disk, the other end of said cable being connected with the other end of said lever; and means for moving said second disk into frictional engagement of the first mentioned disk.

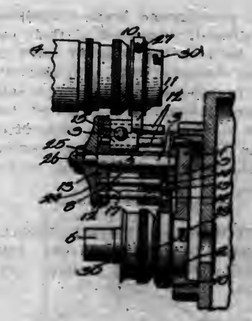
1,754,356. CAMERA. LESLIE S. GORDON, Chicago, Ill. Filed Mar. 16, 1928. Serial No. 262,090. 13 Claims. (Cl. 95—44.)

1. In a camera the combination with the chamber thereof having a light transmitting opening; of a lens tube; a mounting for the lens tube assembled with said chamber and adjustable with respect to said chamber to bring said lens tube into and out of register with said light transmitting opening and with respect to which mounting said lens tube is adjustable along the lens tube axis into alternative positions toward and from the chamber; a justifying pin carried by said mounting and insertible within a socket that is formed in the lens tube and positioned to cooperate with said pin to hold said tube in one of its aforesaid alternative positions; a guiding pin also carried by said mounting and insertible within a



groove that is formed in and along the lens tube and of sufficient length to receive the guiding pin while the lens tube is being moved between its aforesaid alternative positions; and a coupling uniting said pins and constraining the justifying pin to a withdrawn position when the guiding pin is within the aforesaid groove.

1,754,357. CAMERA. LESLIE S. GORDON, Chicago, Ill. Filed Mar. 16, 1928. Serial No. 262,091. 12 Claims. (Cl. 95—44.)



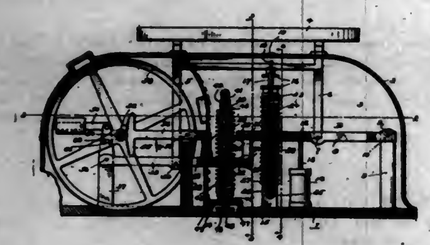
1. In a camera, the combination with the chamber thereof having a light transmitting opening; of a lens tube; a mounting for the tube in which the tube may be turned upon the tube axis and having a support located upon one side of said opening and defining an axis of rotation for the mounting positioned to include the axis of said opening in the circle of rotation of the axis of said tube whereby the tube is adjustable into and out of register with said light transmitting opening, said tube being adjustable along its axis into and out of said opening; cooperating bayonet pin and slot formations, one upon the lens tube and one upon the camera chamber and effectively engageable when the lens tube is in said opening; and coacting stop formations, one upon the lens tube and one upon the tube mounting and relatively positioned to be engageable when the lens tube is positioned and turned upon its own axis to bring the aforesaid bayonet pin and the entrance branch of the bayonet slot into register.

1,754,358. PRODUCTION OF POTASSIUM-AMMONIUM SULPHATE. ROBERT GRIESSBACH, Ludwigshafen-on-the-Rhine, and OTTO SCHLIEPHAKE, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Aug. 23, 1928, Serial No. 301,707, and in Germany Sept. 16, 1927. 8 Claims. (Cl. 23—121.)

7. A process of producing a mixed fertilizer containing nitrogen and potassium but free from chlorids which comprises treating a mixture of one molecular proportion of potassium chlorid and at least one molecular proportion of sulfuric acid of between 50° and 60° Bé. strength at a temperature between 110° and 120° C. with a current of superheated steam the evaporating water being replenished until the hydrochloric acid formed is driven off, drying the resulting potassium bisulphate and treating it with gaseous ammonia at elevated temperature but below the melting point of the reaction mixture.

8. As new article of manufacture potassium-ammonium sulphate corresponding substantially to the formula KNH_4SO_4.

1,754,359. SCALE. NATHAN A. HALLWOOD, Columbus, Ohio. Filed May 17, 1926. Serial No. 109,514. 22 Claims. (Cl. 265—69.)



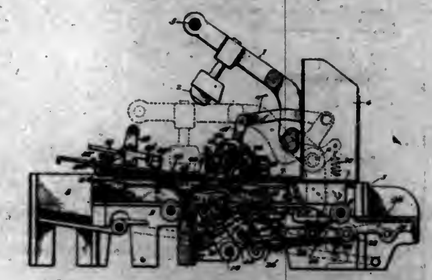
1. In a scale, a compound beam comprising a pair of lever elements pivotally mounted at their outer ends, a link connection between the adjacent inner ends of said elements, springs connected with said elements and operating normally in opposed relation upon said lever elements to produce substantially balanced tensile forces upon said links, a weight receiver supported from said elements and an indicator mechanism responsive to the deflection of said lever elements from neutral position.

1,754,360. AUTOMOBILE THEFT-SIGNAL SWITCH. FRED H. HENDRICKS, Seattle, Wash. Filed Feb. 18, 1926. Serial No. 88,003. 3 Claims. (Cl. 200—52.)



1. In a theft signal of the class described a housing, means for suspending said housing for swinging movement, a vibratory electrical conductor secured within the upper portion of said housing and extending downwardly along one side, thence across the lower portion, thence upwardly along the other side, thence inwardly to the central axis of said housing, the end of said inwardly extending portion having a horizontally disposed loop formed therein and an electrically conductive suspended pendulum extending through said loop and arranged to make contact with said loop in response to tilting movement of said housing.

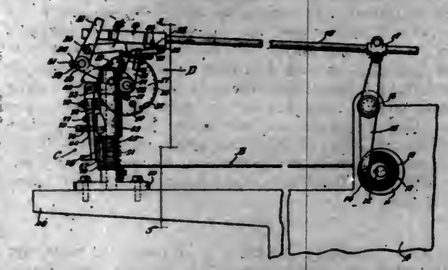
1,754,361. DISTRIBUTIVE-PRINTING ADDRESSING MACHINE. HENRY E. HUBBARD, Chicago, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 31, 1927. Serial No. 243,843. 17 Claims. (Cl. 101—47.)



1. In an addressing machine for making impressions from printing devices having a plurality of lines of type characters, the combination of a stamper arm, a platen carried by the stamper arm, means for moving a sheet to be printed in a right line in successive steps through printing position, and means for moving the printing device one type line corresponding with each step movement of the sheet.

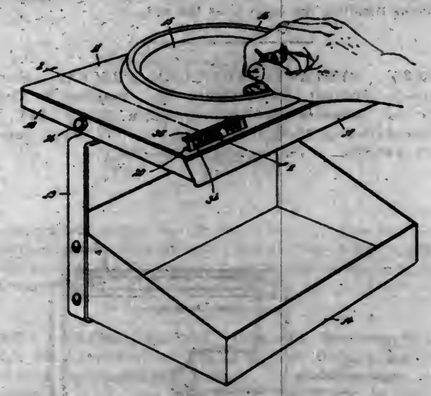
13. The method of printing characters on a sheet in a single line from a printing device having such characters contained in several superposed lines, which consists in superposing the sheet and printing device, printing an upper line only of the printing device and then moving the paper sheet horizontally to one side and also moving the printing device relatively to the paper sheet to position a lower line of the printing device in position to be printed at one side of and in line with the previously printed line of characters on the sheet.

1,754,362. PAPER-CUTTING DEVICE. JOHN E. JOHNSON, Chicago, Ill., assignor to Speedaumat Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Jan. 24, 1923. Serial No. 614,509. 16 Claims. (Cl. 164—48.)



1. In a device of the type described, a knife element, mechanism for operating said knife element at predetermined intervals of time comprising a reciprocating member, a shaft, an arm fixed to said shaft, means for supporting and for periodically dropping said reciprocating member into operative engagement with said arm, a pawl and ratchet for operating said means from said reciprocating member and a second arm fixed on said shaft for depressing said knife element.

1,754,363. COMBINED CHANGE TRAY AND ADVERTISING DEVICE. CHARLES L. KEE, Portsmouth, Va. Filed Sept. 6, 1928. Serial No. 304,221. 4 Claims. (Cl. 40—28.)

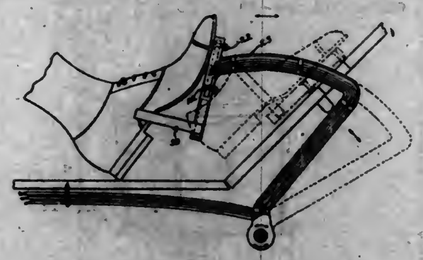


1. In a combined change tray and advertising device, a normally horizontal change tray having a slot adjacent its forward edge, means for supporting said tray for limited tilting movement, and a sign supported by said means and having an upwardly extending sign portion in registry with said slot, said sign being normally beneath and concealed by said tray, and said sign portion extending upwardly through said slot and above the tray when the tray is tilted in the act of removing change therefrom.

1,754,364. BEARING METAL. PAUL KEMP, Vienna, Austria. Filed Jan. 11, 1928, Serial No. 246,090, and in Poland Jan. 17, 1927. 5 Claims. (Cl. 75—1.)

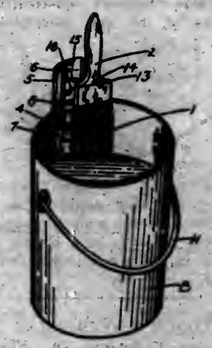
1. Bearing metals consisting of 65–77% lead, 3–14% tin, 10–27% antimony, 0.7–2.5% arsenic and 0.5–3.5% of metals of the class including cadmium and indium.

1,754,365. SIGNALING. GEORGE E. LEE, Cleveland Heights, Ohio, assignor to Hadley F. Freeman, Lakewood, Ohio. Filed Apr. 10, 1925, Serial No. 22,072. Renewed Mar. 6, 1928. 14 Claims. (Cl. 177—339.)



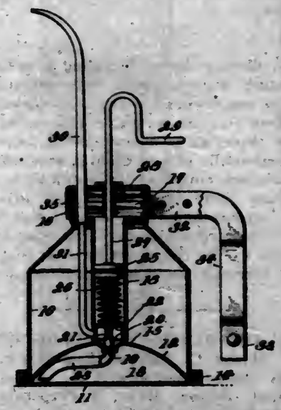
1. Operation indicating mechanism, for automobiles of the types having a foot operated control pedal, comprising: signaling means for indicating turns; and means to effect operation of said signaling means carried by said pedal and having its operating part disposed rearwardly of said pedal and operable, by the rear of a foot of the driver while said foot is in an operating position on said pedal, by pressure exerted by said rear of said foot and definitely out of line with the direction of the pressure by which said foot operates said pedal.

1,754,366. PAINTBRUSH HOLDER. WILLIAM LISBY, Spokane, Wash. Filed Mar. 20, 1928. Serial No. 263,192. 1 Claim. (Cl. 248—49.)



In a paint brush holder the combination of a pair of flat metal plates forming relatively movable jaws, edge flanges on said plates, a coiled spring interposed between the jaws and forming a hinge, said spring having its respective ends anchored in the flanges of the opposite jaws, vertically spaced retaining lugs integral with one of the plates for engagement with the coiled spring, and a brush-supporting prong on one of said plates.

1,754,367. OIL CAN. HENRY H. MORETON, Santa Monica, Calif. Filed May 27, 1927. Serial No. 194,776. 4 Claims. (Cl. 221—51.)



1. An oil can comprising a body provided at its top with a centrally disposed neck, means providing a supplemental chamber in said body, a cup-like member removably mounted in said neck and having a bottom wall constituting a closure, a spout attached to and supported by said bottom wall, a pump cylinder open at its upper and lower ends, said upper end being secured to said bottom wall, its lower end extending into said supplemental chamber, a piston working in said pump cylinder, and a feed tube connecting said cylinder with said spout.

1,754,368. BLOTTER HOLDER. FRED C. PARTELL, Lewiston, Me. Filed Dec. 29, 1928. Serial No. 329,121. 2 Claims. (Cl. 120—24.)

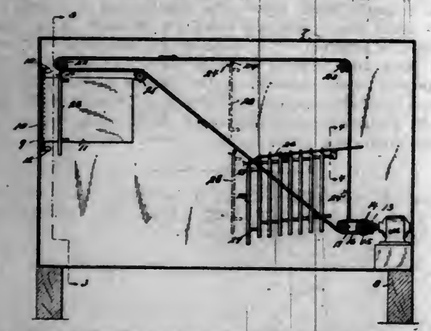
1. A blotter holder comprising a body member having its under side convexly curved from end to end, studs

upon the upper side of the body member, and resilient clips at the ends of the body member each including spaced side portions and laterally directed ends engaging the studs at the respective end of the body member and a loop including side members constituting angularly directed extensions of the first mentioned side portions,



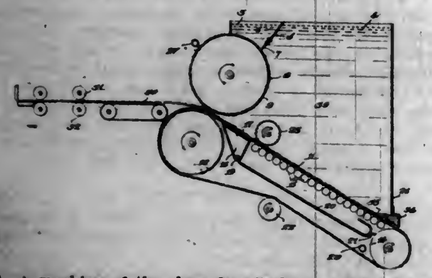
and a connecting bight, the side portions and bight of the loop bearing yieldably against the said under side of the body member at the ends thereof and constituting means for holding the ends of a blotter sheet when such sheet is disposed in surface contact with the said under side of the body.

1,754,369. OUTDOOR ADVERTISING DEVICE. MAURICE F. PHILLIPS, Richmond, Va. Filed Oct. 19, 1928. Serial No. 313,522. 4 Claims. (Cl. 40—36.)



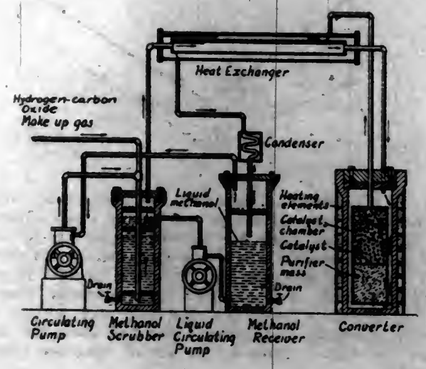
1. A sign display device including a casing having a display opening, a plurality of signs normally supported in said casing and movable successively forwardly thereof, spaced endless sign conveyors in the casing, means for moving said conveyors in unison, means below and means above and rearwardly of said opening over which stretches of said conveyors travel at an inclination toward said opening, means above said opening and adjacent thereto over which substantially parallel stretches of said conveyors travel toward and away from said opening, and means carried by the conveyors for engaging one sign at a time and carrying the same to and from said display opening.

1,754,370. APPARATUS FOR PRODUCING FIBER BOARD. HARRY C. RAYNES, Portsmouth, N. H., assignor, by mesne assignments, to Bemis Industries, Incorporated, Boston, Mass., a Corporation of Delaware. Filed Oct. 29, 1927. Serial No. 229,621. 13 Claims. (Cl. 92—39.)



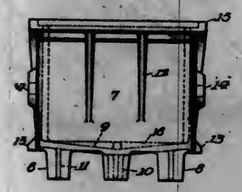
1. A machine of the class described, comprising a pulp vat having an outlet, a pair of compartments in said vat adapted to hold pulp of different characteristics, a pair of movable foraminous surfaces, each having a portion adjoining one of said compartments and adapted to pick up fiber therefrom, the surfaces being arranged in converging relation at the outlet of the vat, one of said surfaces forming the bottom of the vat.

1,754,371. SYNTHETIC-METHANOL PROCESS. LEONARD A. STENGEL, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland. Filed Nov. 17, 1926. Serial No. 148,823. 4 Claims. (Cl. 260—156.)



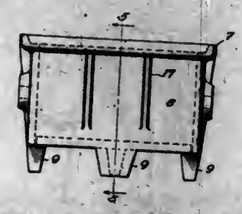
1. In the process of manufacturing methanol by the interaction of hydrogen and carbon oxides containing traces of impurities, in the presence of a catalyst and under the influence of elevated pressure and temperature, the step of removing said impurities from the gases by scrubbing them with liquid methanol.

1,754,372. ANNEALING POT. ROBERT S. STEWART, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1927. Serial No. 225,655. 1 Claim. (Cl. 263—49.)



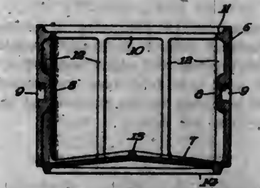
An annealing pot embodying in one integral element, a body and a bottom wall inclined downwardly to a central point, a plurality of legs projecting downwardly from the said bottom at the corners, a leg integral with the bottom wall at said central point, and integral tapered crossed ribs on the inner side of said bottom, the said ribs intersecting at said central point over the centre leg.

1,754,373. ANNEALING POT. ROBERT S. STEWART, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1927. Serial No. 225,656. 4 Claims. (Cl. 263—49.)



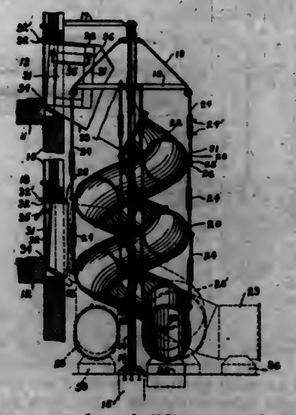
1. An annealing pot having walls and an open bottom, legs projecting downwardly from the bottom of said walls, a removable bottom for the pot, and means for supporting the bottom in the pot above the legs.

1,754,374. ANNEALING POT. ROBERT S. STEWART, Chicago, Ill., assignor to The American Brake Shoe & Foundry Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1927. Serial No. 225,657. 2 Claims. (Cl. 263—49.)



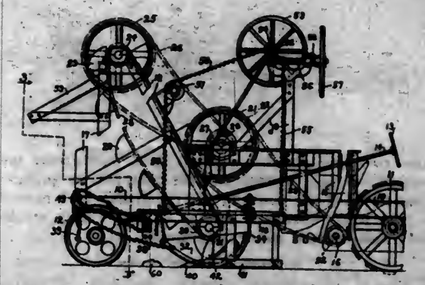
1. An annealing pot having walls, oppositely disposed integral projections on the inside of said walls, said projections being recessed on the outside of the walls for receiving trunnion supports for the pot, and ribs on the inside of said walls merging with and integral with said projections.

1,754,375. FIRE ESCAPE OF SLIDING TYPE. ARTHUR H. STURGES, Omaha, Nebr. Filed Dec. 12, 1927. Serial No. 239,415. 15 Claims. (Cl. 227—7.)



1. In a fire escape for a building, a vertical form supporting member, a bracket for connecting said member with the building, a spiral tube connected with said member and consisting of curved sections, stabilising-elements for connecting one section with another section and arranged for longitudinal adjustments, and a straight tube connected with one of the sections for a communication with said building.

1,754,376. GRADING MACHINE. ARTHUR C. THOMAS, Omaha, Nebr., assignor to Little Red Wagon Mfg. Co., Omaha, Nebr., a Corporation of Nebraska. Filed Feb. 28, 1928. Serial No. 256,266. 3 Claims. (Cl. 37—108.)



2. In a grading machine, a tractor having a power shaft and a frame, masts rising from the forward end of the frame, an endless elevator mounted upon said masts and having buckets thereon, a power connection between said power shaft and the conveyor, a delivery chute mounted on the masts adjacent the conveyor and extending forwardly and downwardly therefrom, a trough carried beneath the tractor, an earth turning implement mounted on the tractor adjacent the trough, and means for adjusting said earth turning implement.

1,754,377. BOTTLED-WATER-DISPENSING DEVICE. FRANK S. TOWER, Boston, Mass. Filed Apr. 30, 1929. Serial No. 359,223. 2 Claims. (Cl. 225—40.)



1. A bottled water dispensing device comprising a casing, a lowermost chamber for the reception of a bottle of water, an uppermost chamber for a refrigerant, a cooling coil in the upper chamber, a plunger pump intermediate said chambers and having an operating lever projecting through the casing, the pump being connected with the coil and having a projecting inlet pipe for connection with a tube projecting from the base of the bottle to the top thereof, as and for the purpose set forth, and a water discharge member connected with the coil.

1,754,378. SAW-FILING DEVICE. JOHN A. WALLER, Los Angeles, Calif., assignor to Waller Manufacturing Corporation, Ltd., Los Angeles, Calif., a Corporation of Nevada. Filed Sept. 13, 1928. Serial No. 305,641. 20 Claims. (Cl. 76—31.)

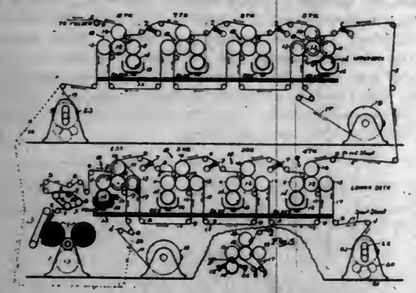
1. A saw filing device comprising supporting means adapted to be mounted in position adjacent the toothed edge of a vertical saw blade and provided with tooth-

engaging members, a file carrying frame mounted to slide horizontally on said supporting means and having means for clamping the opposite ends of a file, handle means at one end of said frame, a swivel member mounted on said



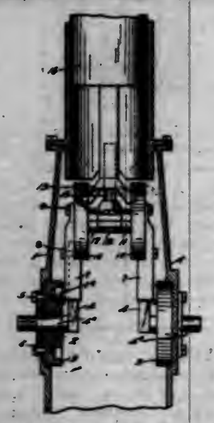
frame to swing about a vertical axis, and lifting means mounted on said swivel member adapted to engage between teeth of the saw and lift the frame with respect to the saw blade during a portion of the sliding stroke of said frame on said supporting means.

1,754,379. PRINTING PRESS. EDWARD A. WALLER, Chicago, Ill. Filed Nov. 1, 1928. Serial No. 316,430. 8 Claims. (Cl. 101—152.)



1. A printing press adapted for quick drying of the impression, and comprising an intaglio cylinder, an offset cylinder journaled in direct peripheral engagement with said intaglio cylinder, a platen cylinder bearing against said offset cylinder for pressing a web of paper thereagainst, a drying element disposed against a portion of the printed web on said platen cylinder, and mutually spaced rolls bearing against said web and drying member and against said platen cylinder at spaced intervals.

1,754,380. CRANK SHAFT AND CONNECTING ROD FOR INTERNAL-EXPANSION ENGINES. LAWRENCE GLEN WEYLANDT, Calexico, Calif. Filed Apr. 15, 1927. Serial No. 184,123. 6 Claims. (Cl. 74—38.)



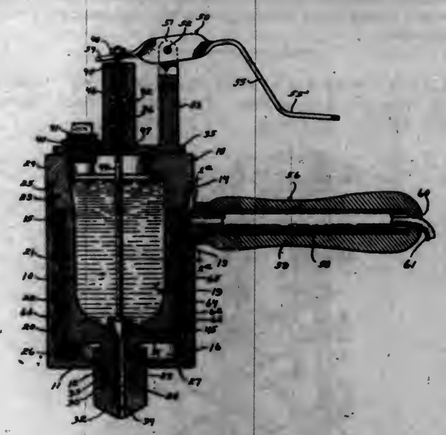
2. In a reciprocating engine, a piston, a crank shaft having variable length crank arms, variable length links attached to the piston, and length-varying means connected to the arms for driving and actuating the variable links.

1,754,381. UNIFORM. RALPH H. WOLFE and MAMIE WOLFE, Kansas City, Mo., assignors of one-half to John M. Lloyd, Independence, Mo. Filed Dec. 19, 1928. Serial No. 327,134. 7 Claims. (Cl. 2—74.)



1. In a garment of the character described, a closed tubular skirt portion folded on spaced vertical lines, a waist portion having vertical edges forming a front opening and aligned with said fold lines, and means including ties having ends attached to the garment at said lines for fitting the garment to the wearer.

1,754,382. SOLDERING TOOL. STEPHEN BARACATT, Troy, N. Y. Filed July 5, 1929. Serial No. 376,161. 6 Claims. (Cl. 219—27.)



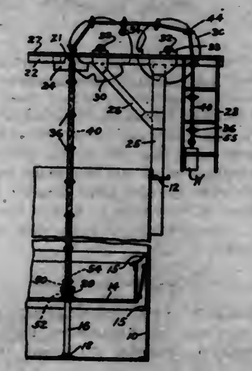
1. A soldering tool comprising an outer casing being open at its upper end and having a flat bottom wall provided with an axial opening, a melting pot slidably fitting into the upper open end of the casing with its flat bottom wall in spaced relation above the casing bottom wall and having an integral coupling extension provided with a feed duct, extending downwardly through the opening in the bottom casing wall, a soldering tip carried by the coupling extension and having a duct communicating with the feed duct, a heating element encircling the pot within the casing, a handle connected to the casing, and valve means controlling said feed ducts.

1,754,383. INDICATOR FOR AUTOMOBILE LUBRICATION. STEWART BROWN, Chicago, Ill. Filed Sept. 4, 1928. Serial No. 303,700. 3 Claims. (Cl. 40—65.)



1. An indicator for automobile lubrication comprising a closed receptacle provided with a cover containing a sight opening having an offset bar behind the same which extends lengthwise of the sight opening, and a flexible number displaying strip of greater length than the receptacle slidably mounted between said sight opening and bar and held in place by said bar, said flexible strip being capable of adjustment in a direction transversely of the bar and foldably contained within the receptacle.

1,754,384. LADDER FOR FLOATING-ROOF TANKS. BURDGE OGDEN BUSHNELL, Los Angeles, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed Aug. 15, 1927. Serial No. 213,018. 30 Claims. (Cl. 228—1.)



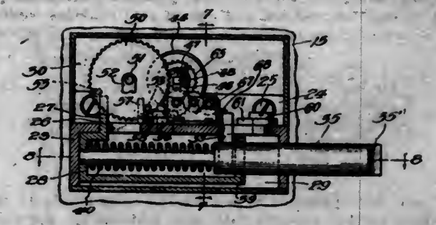
30. A construction according to claim 29 wherein the lowermost tread is positively connected to said roof.

1,754,385. SUPPLEMENTAL SUPPORT FOR BRAKE BEAMS. EDWIN G. BUSSE, Chicago, Ill., and WILLIAM JANUS, Webster Groves, Mo., assignors to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1927. Serial No. 204,908. 18 Claims. (Cl. 188—210.)



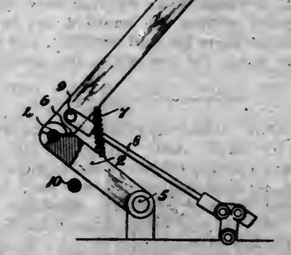
1. A supplemental support for brake beams comprising in combination with a truck part, a bracket secured thereto, a resilient element in said bracket, a safety bar arranged in said bracket on said element and extending underneath the brake beam and a member arranged transversely in said bracket and engaging a seat formed in the top of said safety bar for locking the latter against displacement.

1,754,386. LOCKING ATTACHMENT FOR VAULT DOORS. ANTON EVENSEN, Fox Lake, Ill. Filed May 24, 1928. Serial No. 280,204. 20 Claims. (Cl. 109—3.)



1. Locking mechanism for vault doors for locking the door in almost completely closed position relative to its frame, including frame-engaging devices movably mounted on the door, and arranged to engage the frame before the door is completely seated therein, means for putting the frame-engaging devices under tension, means for maintaining the same under tension, means for holding said frame-engaging devices in retracted position, means for automatically tripping the holding means, and means for releasing the tension on the frame-engaging devices.

1,754,387. BRAKE-ACTUATING MECHANISM. FREDERICK HAROLD HALL, Holford, England. Filed Aug. 3, 1928, Serial No. 297,347, and in Great Britain Aug. 9, 1927. 6 Claims. (Cl. 74—110.)

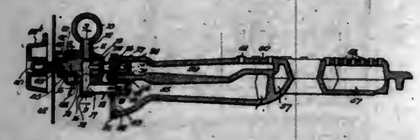


1. A variable-leverage brake-actuating mechanism comprising a two-part lever consisting of an inner member pivoted to a fixed part and an outer operating member pivoted to the inner member, in combination with a brake-actuating member attached to the outer member of the lever, the two lever members moving together as a unit to take up slack and until the brake is engaged, and then the outer member turning relatively to the inner member, the said inner member being disposed at an angle to the brake-actuating member such as to ensure the said inner member being inherently restrained against return movement during application of the braking force without the use of supplementary external constraining means.

1,754,388. GAS BURNER. PHILIP S. HARPER, Chicago, Ill. Filed Apr. 4, 1928, Serial No. 267,222. Renewed Feb. 27, 1930. 14 Claims. (Cl. 158—105.)

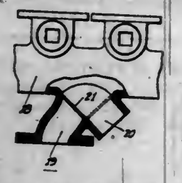
12. A double gas range burner comprising means having two mixing tubes therein, each of said mixing tubes leading to a separate burner section having burner ports therein, a gas cock having a casing with at least two substantially parallel gas nozzles thereon, each having a restricted orifice discharging each into one of aforesaid

mixing tubes, said casing having a plug receiving passage with a single rotatable plug in bearing therein, said plug receiving passage having at least three gas passages connecting therewith, two of said gas passages leading each to one of said two nozzles, and one of said passages leading to a means of gas connection on said casing, at least two



of said three passages in said casing terminating in the bearing surface between said plug and casing, aforesaid plug having a taper so that it is larger at one end of its bearing surface than at the other, and a spring holding said plug in seated relation to the bearing surface, said spring being positioned toward the end of said plug having the larger bearing surface diameter.

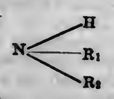
1,754,389. INTERNAL-COMBUSTION MOTOR. LOUIS B. HARVEY, Sacramento, Calif. Filed Mar. 27, 1928. Serial No. 265,016. 2 Claims. (Cl. 123—75.)



2. In an internal combustion motor, a cylinder, a piston therein, means for reciprocating the piston through a predetermined stroke, a port communicating with the cylinder above the bottom position of the piston, a manifold open to the atmosphere and with which said port communicates, a check valve opening only toward the cylinder, disposed between the manifold and port, a pair of separate intake ports for said manifold, and selectively operable valve means for controlling the opening of said ports.

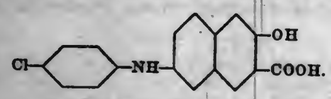
1,754,390. NEW DERIVATIVES OF 2.3-HYDROXYNAPHTHOIC ACID AND PROCESS OF MAKING SAME. BRUNO HEYN, Offenbach-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 28, 1929, Serial No. 343,554, and in Germany Feb. 27, 1928. 8 Claims. (Cl. 260—109.)

1. A process which comprises heating 2.6-dihydroxynaphthalene-3-carboxylic acid with a compound of the general formula:



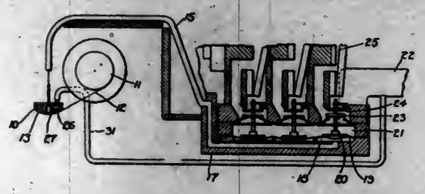
wherein R_1 and R_2 means hydrogen or alkyl- or aralykl- or aryl radicles.

8. As a new compound 6-parachlorphenylamino-2-hydroxy-naphthalene-3-carboxylic acid of the formula:



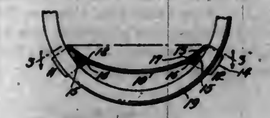
1,754,391. PLAYER PIANO. FREDERICK T. KENT, East Orange, N. J. Filed Feb. 13, 1928. Serial No. 253,879. 2 Claims. (Cl. 84—151.)

1. A tracker bar of the class described having longitudinally spaced suction ports, an auxiliary by-pass suction chamber arranged longitudinally of one side of the bar and opening outwardly through said side, means for placing said chamber in communication with each of said



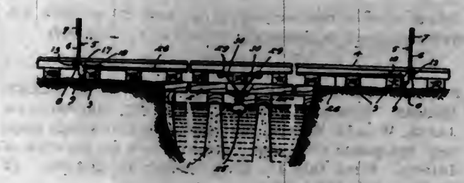
ports, a rod-like closure member countersunk in said bar for closing the open side of said chamber, means for holding said closure member in place and one end of said member being pivoted to one end of said bar.

1,754,392. FINGER-RING GUARD. HARRIS LEVIN, Freeport, N. Y., assignor to The Lion Safety Pin Clutch Co., Inc., New York, N. Y., a Corporation of New York. Filed May 12, 1928. Serial No. 277,134. 4 Claims. (Cl. 63—17.)



1. A finger-ring guard, comprising an elongated, flexible, metallic member and metallic jaw-members at the ends thereof and opening outwardly away from the ends of the elongated member for engagement with the shank of a ring to retain the guard on the ring, the back of a pair of the jaw-members at one end of the elongated member having a connection with the elongated member which is of less width than the elongated member and the space between the jaws of such pair to form a line of weakness at that point transversely between said back and the elongated member.

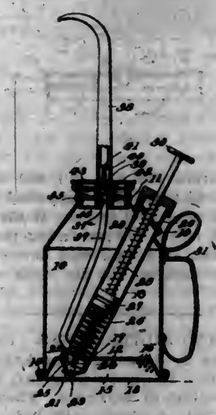
1,754,393. HIGH-WATER SIGNALING APPARATUS. JOSHUA J. MCCANDLESS, Hennessey, Okla. Filed Nov. 30, 1929. Serial No. 410,846. 5 Claims. (Cl. 116—118.)



1. A signal of the character stated, comprising a pivoted sign normally occupying a lowered position, a latch bolt holding the sign in said position, a spring maintaining the latch bolt in engagement with the sign, a float controlled lever connected to the latch bolt and adapted when moved in one direction to retract the latch bolt, and means adapted to raise and support the sign on the retraction of the latch bolt.

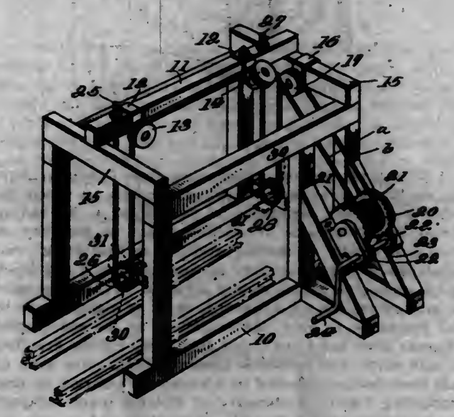
1,754,394. OIL CAN. HENRY H. MOUNTON, Santa Monica, Calif. Filed May 27, 1927, Serial No. 194,775. Renewed Jan. 6, 1930. 8 Claims. (Cl. 221—51.)

1. An oil can of the character described comprising a can body having an opening in its top, and a supplemental chamber in its bottom portion, a pump mounted within said can body and communicating with said supplemental chamber, operating means for the pump extending through the upper portion of the can body, a cup-like member secured in the top opening of the can and having openings in its bottom wall, a feeder tube connected at one end



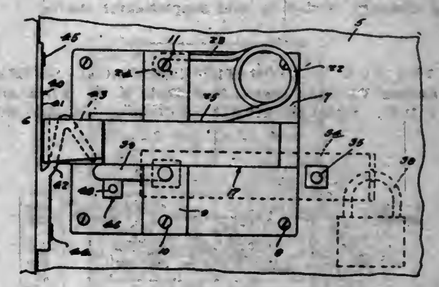
with the pump casing and the other end extending through the bottom wall of said cup member, a closure engaging said cup member, and a spout carried by said closure, said spout having a portion telescoping with an end of said feeder tube.

1,754,395. APPARATUS FOR INVERTING MINE CARS. JOHN THOMAS MORRIS, Glen Morrison, W. Va. Filed June 15, 1927. Serial No. 199,011. 8 Claims. (Cl. 214—1.)



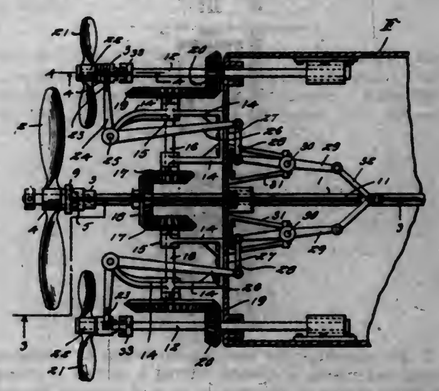
1. An apparatus for inverting cars comprising car supporting attachments each having means for removably engaging the ends of the car to be inverted and each provided with a relatively rotatable sheave, and hoisting apparatus provided with spaced apart parallel cable loops positioned to engage said sheaves so that by shortening or lengthening said loops said car may be raised or lowered, said attachments having non-rotative engagement with the car so that while the car is suspended by said loops it may be inverted by rotating the attachments with respect to the sheaves while said sheaves are held against rotation by said loops.

1,754,396. DOOR LOCK. CARL PETER NELSON, Firth, Idaho. Filed May 6, 1929. Serial No. 360,741. 2 Claims. (Cl. 292—228.)



1. A door lock of the character referred to comprising a flat plate adapted to be rigidly secured on the inner side of a door, a yoke shaped guide strap mounted on the outer face of the plate, a combined latch and handle rockably mounted on the plate and slidable in the guide, a forked spring having one leg rigidly secured to the plate and the other in abutment with said combined latch and handle, a keeper adapted to be mounted on a door jamb, and having an arm projecting outwardly for engagement with said combined latch and handle, an operating rod adapted to extend through the door and having its inner end rotatably supported by said plate and guide strap and its outer end terminating exeriorly of the outer face of the door, a cam arm rigidly mounted on said rod between said plate and guide strap and abutting said combined latch and handle, an abutment rigidly secured to said plate to limit the movement of said cam, a hasp adapted to be rigidly secured to the outer side of said door, a second handle rigidly secured to the operating rod for rotating the latter, and detachable means connected with the hasp and handle for locking the latter against movement.

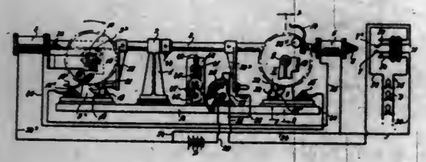
1,754,397. AEROPLANE. ISIDOR NEUSTATTER, Tucson, Ariz. Filed July 16, 1929. Serial No. 381,536. 8 Claims. (Cl. 244—25.)



1. In combination with the propeller drive shaft of an aeroplane and a propeller freely mounted thereon, a clutching element carried by the shaft, means for adjusting the propeller into or out of engagement with the clutching element, supplemental shafts at opposite sides of the drive shaft, an operative connection between the drive shaft and the supplemental shafts for rotating the supplemental shafts at a greater speed than the rotation of the drive shaft, braking propellers freely mounted on

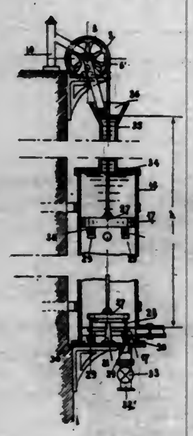
the supplemental shafts, clutching members carried by the supplemental shafts, and means operated by the first named means to move the propellers on the supplemental shafts into or out of engagement with the clutching elements carried by said supplemental shafts.

1,754,398. AUTOMATIC ELECTRICAL SWITCH. ROBERT VAUGHAN OWEN, New York, N. Y. Filed Aug. 2, 1927. Serial No. 210,031. 2 Claims. (Cl. 200—90.)



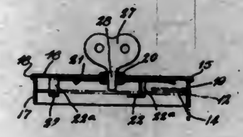
1. A device of the character described, comprising a switch rod formed with two rack sections, a solenoid at each end of the rod and adapted to move the same endwise, switch wheels, one for each solenoid and adapted for movement into closing and breaking relation to said electrical circuit, a pinion for each rack section of the switch rod, ratchet and pawl connections interposed between each pinion and the appropriate switch wheel, and throw-out means for the pawls.

1,754,399. UTILIZATION OF THE FORCE OF GRAVITY AND RELATIVE APPARATUS. GIUSEPPE PASCUCCI, Genoa, Italy. Filed Nov. 23, 1926, Serial No. 150,335, and in Italy Jan. 20, 1926. 6 Claims. (Cl. 230—48.)



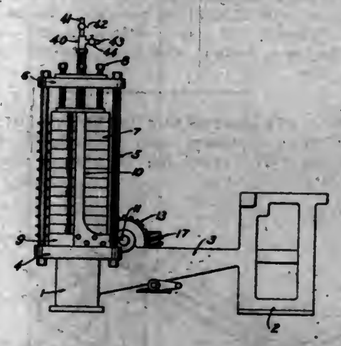
1. An apparatus for the transformation of mechanical energy comprising a cylinder having a bottom, a cylinder discharge means in the bottom of said cylinder normally closed, a piston within said cylinder, a piston discharge means therein also normally closed, a pulley having a cable capable of being wound thereon, said cable being attached to said container to intermittently raise the same, fluid inlet means in said cylinder below said piston in raised position, compressed fluid outlet means and means for opening said piston discharge means and said cylinder discharge means when said piston is in lowermost position.

1,754,400. LOCK DEVICE FOR DIAL TELEPHONES. ROUVIME B. POLIAKOFF, New York, and EMMANUEL I. LANDRESS, Brooklyn, N. Y. Filed July 1, 1927, Serial No. 202,821. Renewed Feb. 10, 1930. 15 Claims. (Cl. 179—189.)



1. The combination with the call dial of a telephone, of a lock device mounted and supported in connection with and adapted to control the use of the operative element of said dial, means for preventing the displacement of said device from said dial, said device comprising a cup-shaped body mounted directly upon and encircling said dial.

1,754,401. TIPPING FILTER PRESS. PAUL W. PRUTZMAN and VICTOR C. BENJAMIN, Los Angeles, Calif., assignors to Contact Filtration Company, San Francisco, Calif., a Corporation of Delaware. Filed Jan. 4, 1928. Serial No. 244,536. 1 Claim. (Cl. 210—188.)



A filter press for separating solids from liquids by forcing the liquid through a foraminous medium on which the solid is retained, comprising; a bed block, a cap having thrust screws passing therethrough and a plurality of standards rigidly connecting said cap to said block; two substantially horizontal side extensions to said bed block and a supporting frame rigidly attached to the outer ends of said extensions; a horisontal shaft at right angles to and journalled on said side extensions at the end thereof adjacent said bed block; two side arms rigidly attached to said shaft and revoluble therewith, the outer ends of said arms being supported in a horisontal position by said supporting frame; a plurality of filtering plates adapted to be covered with a foraminous medium and to rest between said arms; lugs projecting from opposite sides of said plates adapted to support said plates in a vertical position on said arms when said arms are in a horisontal position; a bottom plate adapted to rest on said bed block and rigidly attached to the inner end of said arms; a top plate adapted to receive the thrust of said thrust screws for forcing said plates into non-leaking contact; means acting on said shaft for raising and lowering said side arms and the assemblage of said plates; means removably attached to said top plate for introducing a mixture of solid and liquid onto the upper side of said foraminous medium, and means for efflux of liquid passing through said medium.

1,754,402. DETACHABLE SHOE HEEL. LEON A. REISENFELD, Cincinnati, Ohio, assignor of one-half to Simon M. Illy, Cincinnati, Ohio. Filed Dec. 8, 1928. Serial No. 324,663. 1 Claim. (Cl. 36—42.)



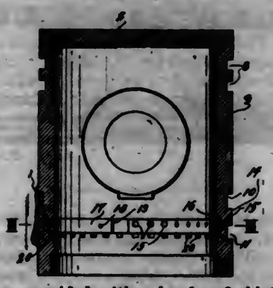
In a detachable heel structure for shoes comprising a base plate, the upper part thereof forming a peripheral groove and said base plate being secured to the sole continuation of the shoe, a dove tail notched bar centrally located upon the base plate, having a groove in one of the raised ends adapted to receive a key, a heel portion grooved on its outside to pass into the peripheral groove of the base plate, and a dove tail groove in the heel bottom for passage over the dove tail notched bar, a lock in the heel bottom, and a spring actuated keeper mounting the lock, whereby the grooved heel portion when pushed into the peripheral groove portion of the base plate allows the keeper to drop into the notch of the dove tail bar, thereby locking the heel rigidly onto the base plate and whereby when a key is inserted the portions may be unlocked.

1,754,403. COLLAPSIBLE CONTAINER. ROBERT F. REUBUSH, Philadelphia, Pa. Filed May 21, 1928. Serial No. 279,417. 1 Claim. (Cl. 221—60.)



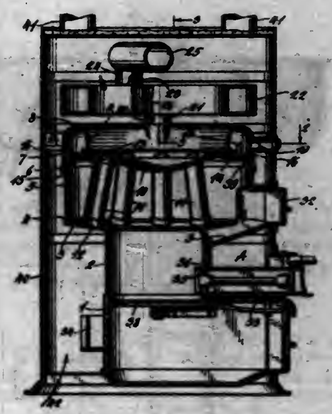
A collapsible container of the character described, comprising a clip infolding and clamping the edges of the rear end of the said container to close the same, one side of said clip being provided with an extension constituting a plate overlying an adjoining portion of the said container, the said plate and the opposing wall portion of the said container being adapted to be compressed to effect displacement of the material located therebetween and the said plate providing means about which the collapsed portion of the said container may be folded.

1,754,404. OIL-PUMPING-PREVENTION PISTON MEANS. DENT SANDFORD, Toledo, Ohio. Filed Feb. 7, 1929. Serial No. 338,124. 5 Claims. (Cl. 74—108.)



3. A piston provided with a head and skirt, there being ports through the skirt inclined inward away from the head, and an expansible check valve ring at the inner portions of said ports.

1,754,405. COMBINED COAL AND GAS FURNACE. LOUIS E. SHARP, Denver, Colo. Filed Apr. 19, 1929. Serial No. 356,382. 7 Claims. (Cl. 126—116.)



1. A furnace having a fire pot, formed in part by a cylindrical member (5) and a dome member (10), said dome member having its outer edge in close proximity to but spaced from the inside of the cylindrical member whereby an annular passage is formed for the passage of flue gases, said dome member having its outer edge provided with openings and means for varying the effective area of said openings.

1,754,406. RAZOR-STROP DRESSING. WALTER O. SNELLINGS, Kingsville, Tex. Filed Dec. 10, 1927. Serial No. 239,256. 1 Claim. (Cl. 51—288.)

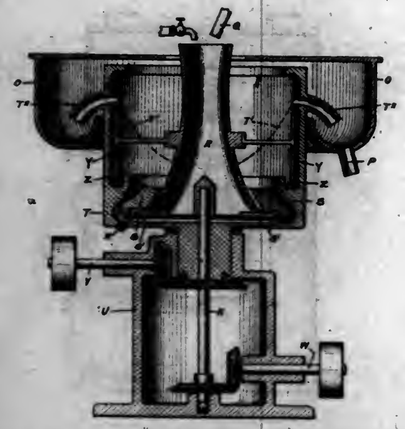
A razor strop having a dressing compound applied thereto consisting of a primary composition of Venetian red, rosin, white lead, raw linseed oil and turpentine, over which is a composition of Venetian red, alum, rosin, white lead, turpentine and varnish, and over which is a composition of Venetian red, rosin, white lead, turpentine and varnish.

1,754,407. DOLLY. LLOYD STEARMAN, Wichita, Kans., assignor to The Stearman Aircraft Company, Inc., Wichita, Kans., a Corporation of Kansas. Filed Sept. 12, 1929. Serial No. 392,064. 14 Claims. (Cl. 244—1.)



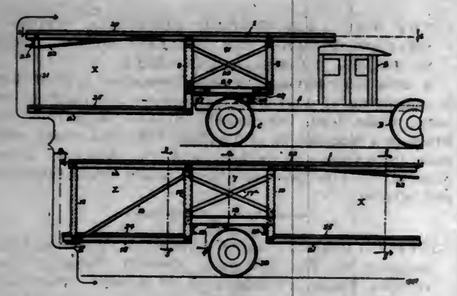
11. The combination with an airplane skid wheel structure having projecting members, of a dolly having side members open to receive said projecting members of the wheel skid structure and retractible means on said dolly for temporarily confining said side members in non-detachable engagement with said side members, said means being releasable from a point removed from the point of engagement of said side members with the projecting members.

1,754,408. PROCESS AND APPARATUS FOR SEPARATING METALLIC VALUES. ELBRIDGE WEBSTER STEVENS, Baltimore, Md. Filed Dec. 20, 1929. Serial No. 415,435. 8 Claims. (Cl. 233—7.)



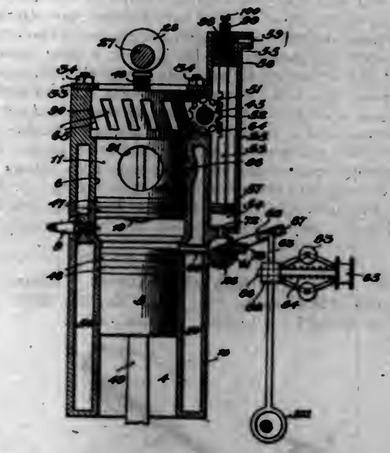
1. The process of separating heavy metallic particles from a colloidal solution which comprises centrifuging the same through an annular vertical Venturi nozzle.

1,754,409. DOUBLE-DECKED SEMITRAILER. FRANK W. WILT, Portland, Ind. Filed June 18, 1927. Serial No. 198,450. 1 Claim. (Cl. 280—33.1.)



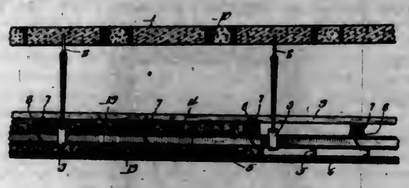
In combination with a truck, a double-decked semi-trailer to be drawn and partly supported thereby, said trailer consisting of a front minor section, a central main section, a rear minor section, and a rear main section, including two spaced apart upper channeled-bars extending the full length of all of said sections together and projecting forward beyond the front section, cross-bars connecting said upper bars at the points of termination of each of said sections, certain of said cross-bars being of greater length than the others and projecting outwardly beyond the two upper channeled bars, posts extending down from each end portion of each of said cross-bars, main lower side bars connecting the lower ends of each pair of said posts on each side of the trailer and forming the lower parts of the main central section and the main rear section, auxiliary side-bars connecting the posts of each minor section and located on a higher plane than the lower side-bars of the said main sections, a single brace for each side of the main rear section, a pair of crossing braces for each side of each of the two minor sections, a removable vertical post on each side of the main central section and located in the center, longitudinally, thereof, ground wheels mounted underneath the rear minor section, means for pivotally mounting the minor front section on the truck, a floor for the lower part of the rear section, a floor for the lower parts of the main section, said two floors forming the main deck, and an upper deck extending over all of the sections and projecting forward from the front minor section and projecting out at each side beyond all of said sections, substantially as shown.

1,754,410. VARIABLE-COMPRESSION INTERNAL-COMBUSTION ENGINE. STEPHEN SEYMOUR ALLWILL, Washington, D. C., assignor to Robert Lee Gray, Washington, D. C. Filed Apr. 23, 1928. Serial No. 272,288. 19 Claims. (Cl. 123—48.)



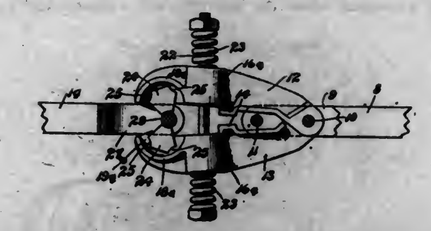
1. A variable compression internal combustion engine comprising a cylinder; a power piston in said cylinder; a floating piston slidably mounted in the uper part of the cylinder and having teeth and grooves therein; means provided around said floating piston having teeth and grooves meshing with the teeth and grooves of the floating piston; and means for automatically actuating said first-named means to provide an approximate constant pressure for the compressed fuel charge.

1,754,411. SOUND-INSULATING CONSTRUCTION. BRUNO E. BALDUF, Chicago, Ill., assignor to The United States Gypsum Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 10, 1927. Serial No. 232,229. 4 Claims. (Cl. 20—4.)



1. A system of sound insulated construction for suspended ceilings, comprising a plurality of parallel ceiling members, metallic suspension connectors adapted to suspend one ceiling member from a second member, and a dry, fluffy, pulverulent, non-combustible, insulating fill between said ceiling members surrounding said connectors and adapted to prevent the passage of sound from one ceiling member to the other.

1,754,412. SAFETY HITCH. GERRIT DEN BESTEN, Holland, Mich. Filed Apr. 30, 1928. Serial No. 273,808. 7 Claims. (Cl. 280—33.16.)

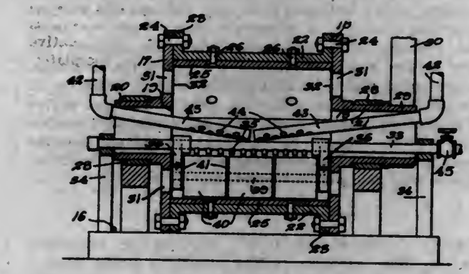


6. A hitch comprising, two jaw members pivotally connected together and lying alongside of each other, spring means normally holding the jaws together, and a rotatable member mounted on the movable end of each jaw, each of said rotatable members being of substantially triangular shape and adjacent sides of the triangles contacting each other by pressure of said spring means.

1,754,413. FIBROUS WALL BOARD. HARRY E. BROOKBY, Evanston, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1927. Serial No. 166,274. 7 Claims. (Cl. 92—8.)

7. The process of manufacturing a fibrous material from cornstalks and peat by first shredding the cornstalks, cooking the stalks under an elevated pressure with a solution containing a chemical which will soften and hydrate the fibres, pulping the cornstalks until sufficiently fine, adding a quantity of peat and pulping the mixture until it is intimately mixed and pulped, forming a fibrous mass by removing a portion of the water, pressing the mass, drying, and re-pressing.

1,754,414. PENDULUM ROLL MILL. FRANK L. BUCHANAN, Los Angeles, Calif. Filed Sept. 24, 1928. Serial No. 307,828. 4 Claims. (Cl. 83—9.)



1. A roll mill comprising a revolvable drum having tubular trunnions on the ends thereof a fixed bar extending longitudinally through said drum and projecting from said trunnions; rollers suspended from said fixed bar so as to make contact with the interior of said drum as it revolves; feed pipes extending through said trunnions into said drum, and means attached to one of said trunnions for revolving said drum.

1,754,415. LOAD-BEARING TOOL. THOMAS F. CONNORS, Columbus, Ohio, assignor, by mesne assignments, to Charles G. McGhie, St. Catharines, Ontario, Canada. Filed July 1, 1927. Serial No. 202,839. 2 Claims. (Cl. 306—41.)

1. In a load bearing tool, the combination of a tool proper; an elongated metallic shank extending from the said tool proper; a handle comprising an open-ended tubular metallic socket member; and means for securing the free end of the said shank within the said socket member comprising a wooden plug tightly fitting within the tubular socket member and having an elongated axially arranged recess formed in the outer end thereof receiving



the free end of the said shank, a metallic cap closely fitting over the inner end of said plug, a securing rivet extending through the socket member, cap and plug, and a second securing rivet extending through the socket member, plug and shank.

1,754,416. PHONOGRAPH TURNTABLE. LE BONSIEUR, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a Corporation of Ohio. Filed Apr. 29, 1927. Serial No. 187,502. 2 Claims. (Cl. 274—39.)

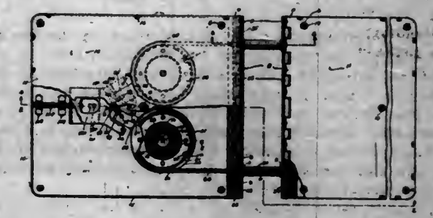


1. A phonograph disk record turntable, comprising a pressed sheet metal disk, a supporting hub therefor, a disk of relatively soft surface material secured to and covering the major portion of the disk, said metal disc being formed with concentric spaced folds, the outer one of said spaced folds providing an annular groove in the metal disk adjacent its periphery dividing the metal disk into a relatively narrow border and inner portions into which the edge of the soft surface extends, said edge closely engaging the outer wall of the groove and depressed below the level of the turntable border portions, and a depending annular reenforcing flange on the periphery of the disk.

1,754,417. EXPLOSIVE AND SOLVENT THEREFOR. TENNEY L. DAVIS, Norwell, Mass. Filed Nov. 8, 1927. Serial No. 231,981. 5 Claims. (Cl. 52—18.) (Granted under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. An explosive comprising nitro-guanidine and an aliphatic nitro-amine.

1,754,418. LOOSE-LEAF BINDER. NORMAN CLAYBAUGH DE LOSS, Shaker Heights, Ohio. Filed June 23, 1927. Serial No. 200,787. 5 Claims. (Cl. 129—18.)

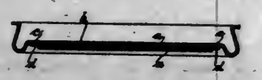


1. A brake mechanism for a retracting mechanism of a loose leaf binder, comprising a brake shoe and means to normally force the shoe into contact with the retracting mechanism to effect a braking action thereon, said shoe having a projecting portion adapted to be engaged by the finger of an operator when opening the binder to release the brake.

3. In a loose leaf binder, the combination with a pair of relatively movable covers, a pair of clincher bars, said

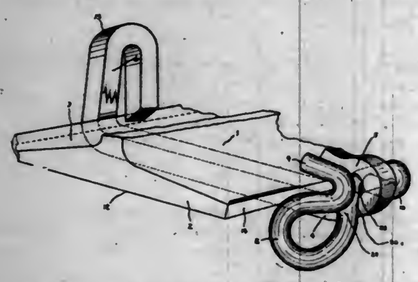
covers hingedly connected to the clincher bars, pairs of telescopable tubes secured to said clincher bars and aligned with apertures therein and adapted to permit the clincher bars to be moved away from each other, drums journaled in a cover, retractile springs in said drums and operatively connected thereto, and a plurality of flexible straps extending through said tubes and said apertures, having an end anchored to one of the clincher bars, and the opposite end thereof secured to the drums, said springs normally exerting a pressure upon the straps to draw the covers towards each other.

1,754,419. EYEPIECE FOR GAS-PROTECTIVE MASKS. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased, assignor to Heinrich Otto Dräger, Lubeck, Germany. Filed Apr. 22, 1926, Serial No. 103,678, and in Germany June 10, 1925. 1 Claim. (Cl. 2—14.)



In an eye-piece for gas protection masks in which a lens is secured to a mounting of non-vitreous material, the combination of two outer disks of glass and an intermediate disk of non-vitreous material secured between said glass disks and projecting beyond the peripheries thereof to form an exposed annular flange, said disks being in surface engagement, the mounting of non-vitreous material being fixed in surface engagement with said annular flange to form a gas tight fit between the mounting and the intermediate disk of non-vitreous material.

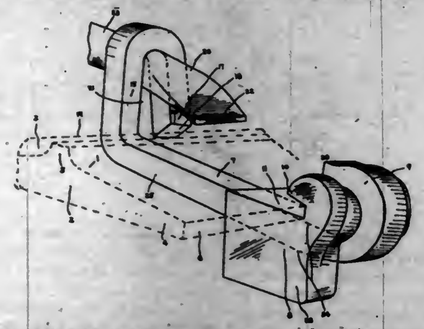
1,754,420. RAIL ANCHOR. ALBERT F. FIFIELD, St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 26, 1928. Serial No. 315,164. 13 Claims. (Cl. 238—329.)



1. In a rail anchor, a spring steel reach bar having an intermediate portion adapted for disposition below a rail base and extending transversely thereof, provided at one end with a pair of jaws adapted to embrace one of the rail base flanges, and terminating at the other end in an upstanding, inverted loop, said loop terminating in a free end disposed for engagement with an upper surface of the opposite rail base flange only by a twisting effort imparted to the intermediate bar portion.

1,754,421. RAIL ANCHOR. ALBERT F. FIFIELD, St. Catharines, Ontario, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 26, 1928. Serial No. 315,166. 5 Claims. (Cl. 238—329.)

1. In a two-piece rail anchor, the combination with a bar having a hooked end and a retaining shoulder at its other end, said retaining shoulder adapted for engagement with the lateral edge of a rail base flange, a jaw element adapted to be fixed to the opposite rail base flange and interposed between said opposite rail base flange and said hooked portion of said bar, said shoe having a portion extending below the rail base and between said rail



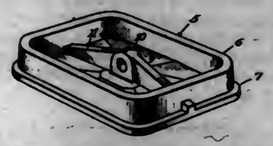
base and said intermediate bar portion, and a portion pendant therefrom and engageable with a relatively fixed abutment for the railway, said pendant portion having portions embracing the lateral surfaces of said bar, said shoe carried on said bar as a unit therewith.

1,754,422. SKI BINDER. LOUIS D. GIBSON, Norway, Me., assignor to W. F. Tubbs Company, Norway, Me., a Corporation of Maine. Filed Apr. 17, 1928. Serial No. 270,674. 6 Claims. (Cl. 208—184.)



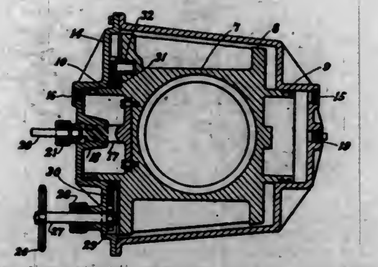
1. In a ski binder in combination with a ski or the like, toe plates including lateral attaching portions and vertical supporting portions, a clamping plate, said toe irons being provided with transverse slots intermediate the lateral portion and a plurality of notches in the rear edge, said clamping plates being provided with a plurality of holes adapted to align with said slots in said toe plates and a plurality of downwardly extending lugs, said notches adapted to be engaged by said lugs to prevent relative movement between said clamping plate and said toe plates, means to hold said binder to said ski.

1,754,423. ANNEALING POT. MICHAEL W. GLEISNER, Racine, Wis., assignor to The American Brake Shoe & Foundry Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 14, 1927. Serial No. 226,126. 2 Claims. (Cl. 263—49.)



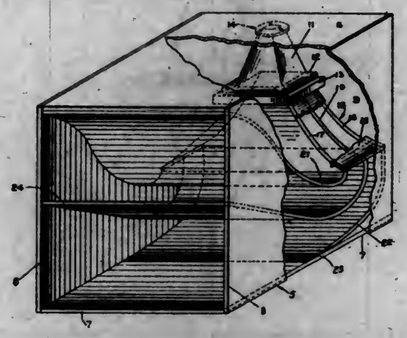
2. An integral cover plate for annealing pots comprising a body having an upstanding annular flange on the top thereof spaced from its periphery, a pick-up eye lug on the top of the body at the center thereof and within the confines of the top of said flange, and oppositely disposed tapered ribs merging with said eye lug at the top thereof and extending from the eye lug through the annular flange to the periphery of the cover plate.

1,754,424. VALVE MECHANISM. DAVID D. GOLDBERG, Chicago, Ill. Filed May 22, 1920. Serial No. 110,070. 8 Claims. (Cl. 137—78.)



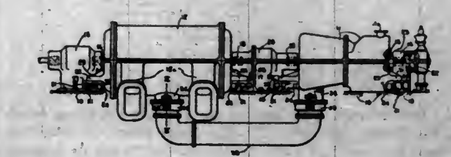
4. In a valve, the combination of a valve-casing having a passage therethrough and a conical valve-seat, a conical valve-plug cooperating with said seat and having a passage therethrough adapted to be turned into and out of register with said casing passage, means to turn said valve-plug automatically to close the passage through the casing upon the occurrence of predetermined conditions, and means to open said valve-plug an adjustable amount without interfering with the operation of said automatic closing means.

1,754,425. SOUND AMPLIFIER. FRANK C. HINCKLEY, Stratford, Conn., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed May 28, 1926. Serial No. 112,250. 4 Claims. (Cl. 181—27.)



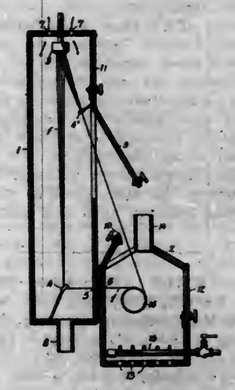
4. In combination, an amplifier comprising an enclosure including side portions and a bottom portion, a horn-like structure at the entrance end of said enclosure, a resonance chamber communicating with the outlet end of said horn-like structure, said resonance chamber including a curved bottom section, which with the bottom of the enclosure provides the lower limitation of the resonance chamber, a curved part forming the top of said resonance chamber, said top and bottom sections contacting at their edges with the side portions of the enclosure whereby said side portions form the side walls of the resonance chamber, and said top contacting along its rear edge with the lower edge of one wall of said horn-like structure and curving for a slight distance downwardly and forwardly and then extending upwardly for a predetermined distance and then curving upwardly and forwardly on an arc struck on a large radius, whereby a bell-like mouth portion for the resonance chamber is produced, said resonance chamber being provided with a partition, and said partition being reversely curved but to a degree different from the curvature of the top of said chamber and dividing the chamber into two substantially equal compartments having exit openings of approximate equal area.

1,754,426. POWER INSTALLATION. FRANCIS HODGKINSON, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,042. 8 Claims. (Cl. 60—65.)



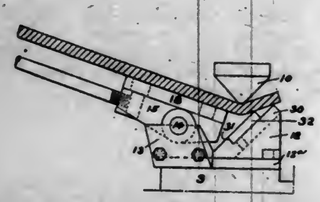
8. In a power installation, the combination of a supporting structure, a pair of steam turbine elements arranged horizontally and connected in tandem relation to one another; means for securing the turbine elements to the supporting structure and including means providing for a slight axial movement of the turbine elements with relation to the supporting structure; and conduit means connecting the exhaust of one of the turbine elements with the inlet of the other turbine element and providing for the transmission of slight axial movements of either of the turbine elements to the other turbine element; said conduit means including a flexible fluid-tight connection comprising a diaphragm disposed in a plane disposed transversely of the adjacent portions of the conduit means and parallel to the axis of the turbine elements.

1,754,427. PROCESS AND APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL THREADS OF DERIVATIVES OF CELLULOSE. KONRAD HOFFMANN, Kreis Heinsberg, Germany. Filed Mar. 11, 1926, Serial No. 94,000, and in Germany Mar. 12, 1925. 7 Claims. (Cl. 18—8.)



2. The process of manufacturing threads from derivatives of cellulose according to the dry stretch method, which comprises dry-stretch spinning the threads in an unheated cell and passing the threads to a separate closed heated cell.

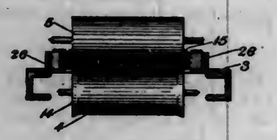
1,754,428. METHOD AND MACHINE FOR FLANGING PLATES. JOHN HUBER, Los Angeles, Calif. Filed Feb. 3, 1926. Serial No. 85,700. 11 Claims. (Cl. 153—21.)



1. The method of flanging a metal plate including bending the flange part with its side away from the direction of bend concave and then flattening the flange to finished form.

4. A plate flanging mechanism including a hammer die, and two base dies, one stationary and the other movable, the stationary die having an angularly disposed part adapted to support a face plate to engage the flange forming portion of he plate.

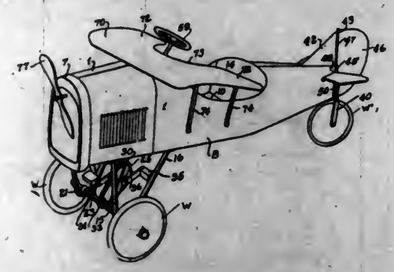
1,754,429. PLASTER-WALL-BOARD CONSTRUCTION. OLIVER M. KNODE, Winnetka, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 25, 1922. Serial No. 590,358. 1 Claim. (Cl. 154—2.)



The method of constructing raw edge plaster wallboard having inclined, longitudinal edges, comprising the continuous advancing of a bottom sheet, depositing a mass of plastic material thereon, forming the plastic material evenly upon said sheet, applying the top sheet over said plastic body, forcing one only of the cover sheets at an angle along its longitudinal edges toward but not abutting the other sheet, the edges of the two sheets being separated a substantial distance to expose a portion of said plastic material along the edges of the wallboard, and supporting said exposed plastic material by a belt moving at substantially the same speed as the wallboard in contact with said material until said material has hardened and set.

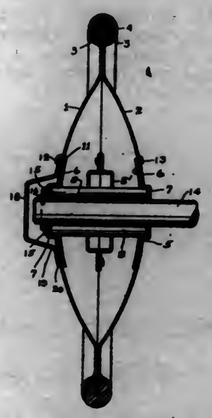
1,754,430. JUVENILE AIRPLANE CONSTRUCTION. HERMAN L. KRAEFT, Cleveland, Ohio, assignor to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1928. Serial No. 284,159. 17 Claims. (Cl. 208—42.)

1. In a child's wheeled vehicle, a body simulating the fuselage of an airplane, said body having a top opening and being recessed to receive the child in sitting position, a front drive construction comprising brackets extending downwardly from the body sides forwardly of the body of the child, a driving axle supported by the brackets, a pedal driving mechanism, within reach of the feet of the child in the aforesaid position, including a pedal shaft, sprockets and a chain, one sprocket being arranged to turn with the pedal shaft, the axis of the shaft being above the axle, and there being a support depending from



the body substantially centrally thereof and having a rigid connection at its lower end with said brackets, for supporting said driving mechanism.

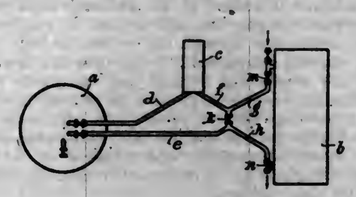
1,754,431. WHEEL CONSTRUCTION. HERMAN L. KRAEFT, Cleveland, Ohio, assignor to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Nov. 14, 1927, Serial No. 233,022. Divided and this application filed June 9, 1928. Serial No. 284,160. 2 Claims. (Cl. 301—5.)



2. In a wheel construction of the type employing wheel-body forming separated discs, a hub construction comprising a pair of plates, one for each disc and disposed inwardly therefrom toward the center of the wheel, said plates being adapted and arranged to support an axle and bearings therefor, a plurality of lugs upstruck from one of the plates, openings in the adjacent discs to receive the lugs, and a hub cap arranged to conceal the end of such axle and having a flange extending close to the lugs, the lugs being bent inwardly toward the axis of the wheel over said flange to hold the cap in place.

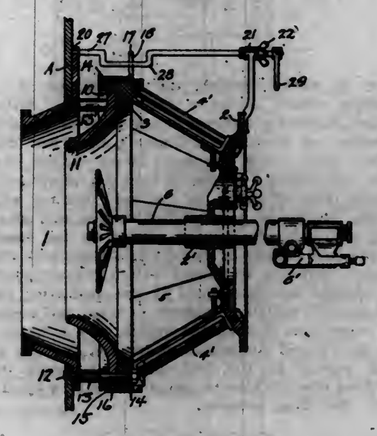
1,754,432. PROCESS AND APPARATUS FOR THE FILTRATION OF BEER WORT FOR FURTHER TREATMENT, AND FOR THE FILTRATION OF BEER AND OTHER FOAMING LIQUIDS. LEOPOLD NATHAN, Zurich, Switzerland, assignor to The Corporation of Hansena A.-G., Glarus, Switzerland. Filed Sept. 6, 1927, Serial No. 217,586, and in Germany Sept. 7, 1926. 9 Claims. (Cl. 210—177.)

1. The method of forming filtering layers, by the flotation method for foaming liquids such as wort and beer, which comprises mixing together under pressure the liquid to be filtered and the filtering medium until a uniform suspension is obtained, forcing such mixture through a



filter chamber to deposit a filtering layer therein, and circulating the liquid repeatedly under pressure until the filtering medium has been completely deposited in a substantially uniform layer.

1,754,433. DOUBLE-PORTED REGISTER FOR FUEL BURNERS. ERNEST H. PEABODY, Pelham Manor, N. Y., assignor to Peabody Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1923. Serial No. 611,410. 7 Claims. (Cl. 158—1.5.)

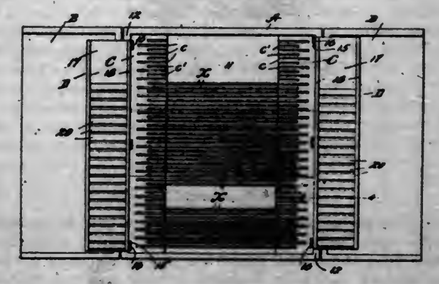


1. In a fuel burning apparatus the combination of an atomizer, a substantially frusto-conical mixing chamber, an air register, a frusto-conical ring located between the air register and the mixing chamber, fastening means connecting the mixing chamber, ring, and air register, spacing means carried by said fastening means for maintaining the ring and mixing chamber in spaced relation, and means for controlling the entrance of air between the mixing chamber and the ring.

1,754,434. PROCESS OF MANUFACTURING A VEGETABLE ALIMENTARY EXTRACT. JOSEF PERINO, Stettin, Germany. Filed Oct. 18, 1927, Serial No. 227,057, and in Germany Oct. 22, 1926. 9 Claims. (Cl. 99—11.)

1. The process of manufacturing a food product which comprises exposing vegetable, alimentary material substantially with the exclusion of oxygen, and in the presence of soluble phosphates and at a reduced pressure to irradiation by ultra-violet rays, and heating said material to a temperature of approximately not above sixty degrees centigrade during such irradiation.

1,754,435. FILING CABINET FOR PHONOGRAPH RECORDS. CHARLES T. RAY and DONALD MCDONALD, Jr., Louisville, Ky., assignors to B. F. Avery & Sons, Louisville, Ky., a Corporation of Kentucky. Original application filed May 11, 1927, Serial No. 190,442. Divided and this application filed Jan. 25, 1929. Serial No. 335,078. 2 Claims. (Cl. 312—10.)



2. In a filing cabinet for phonograph records, a case having means therein to support the records in a staggered relation, a cover comprising oppositely opening sections, a pair of index holders respectively hinged to opposite sides of the case and flexible connections between the index holders and the cover section, respectively.

1,754,436. PRESSURE GAUGE. JOSEPH PERCY REMINGTON, Philadelphia, Pa. Filed Aug. 8, 1924, Serial No. 730,834. Renewed July 10, 1929. 11 Claims. (Cl. 73—110.)

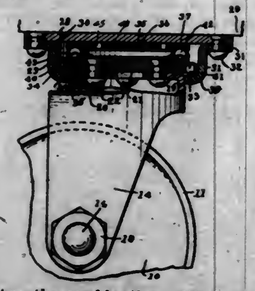


1. A gauge comprising a pointer; a coordinating dial over which the pointer moves; an arbor for the pointer having an integral cranked porton; a motion-multiplying bell-crank having a lateral extension cooperative with the cranked portion; pressure responsive means directly contacting with one arm of the bell-crank to swing the pointer in one direction; and a spring with means for varying its torsion co-operative with the other arm of said bell-crank to oppose the action of the pressure responsive means.

1,754,437. PROCESS OF CONDITIONING CELLULOSIC FIBER FOR THE MANUFACTURE OF RAYON. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed July 13, 1926, Serial No. 122,271. Renewed June 28, 1929. 5 Claims. (Cl. 260—100.)

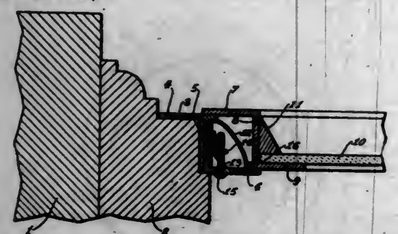
1. A process which comprises beating a pulp which undergoes disintegration if soaked in unbeaten sheet form in a solution of caustic soda, sheeting the beaten pulp, treating the sheeted pulp with caustic soda solution, and converting the treated sheet into viscose.

1,754,438. CASTER. MAYO E. ROE, Elyria, Ohio, assignor to The Colson Company, Elyria, Ohio, a Corporation of Ohio. Filed June 18, 1927. Serial No. 198,847. 5 Claims. (Cl. 16—21.)



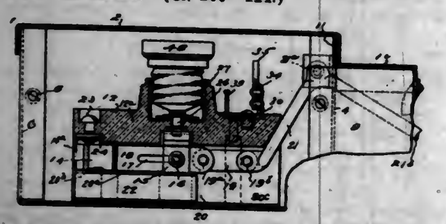
1. In a caster, the combination with a pair of opposite means comprising a swivelable caster wheel supporting caster yoke and a load support, a pair of elements providing opposed co-axially disposed annular grooved bearing races, and bearing balls between the races, one of said elements supported by the yoke, the other of said elements adapted to carry a load, one only of said elements directly engageable with one of said means and being freely shiftable laterally relative thereto, the other of said elements being restrained from free lateral movement relative to that one of said means directly engaging said shiftable element, said elements with their interposed bearing balls being interposed between the yoke and the load to be supported thereon.

1,754,439. WINDOW. JOHN F. RUTH, St. Louis, Mo. Filed June 23, 1928. Serial No. 287,659. 20 Claims. (Cl. 189—65.)



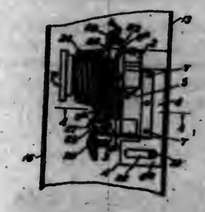
1. In a window having a frame and a sash movable to abutting engagement with said frame, a sealing strip of flexible material on one of said members and having a part extending along the line of movement of the cooperating edge of the other member so as to be wiped thereby and fastening means for said strip accessible for operation from an exposed face of one of said members.

1,754,440. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Oct. 30, 1924, Serial No. 746,911. Renewed Jan. 20, 1930. 14 Claims. (Cl. 200—114.)



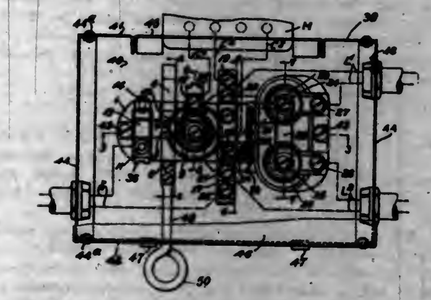
1. In an electric switch, the combination of an insulating base, means for holding the said base in fixed relation to a supporting surface with the back of the base facing the said surface, a stationary switch contact connected with the base adjacent the back thereof, a movable conducting switching element located between the main body of the base and the plane of the said supporting surface and normally engaging the said contact to establish an electrical connection through the switch, a body of insulating material supplemental to the base and interposed between the conducting element and the plane of the said supporting surface in position to prevent movement of the conducting element toward the said plane, and means for rectinearly moving the said conducting element in either direction parallelly with the plane of the aforesaid supporting surface to disengage it from or reengage it with the said contact.

1,754,441. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Aug. 23, 1926. Serial No. 131,043. 24 Claims. (Cl. 200—168.)



1. In an electric switch, the combination of a rear supporting means having a forward facing surface, a switching member positioned at the front of the supporting means and movable rectilinearly in either direction parallelly with the said forward facing surface, the said member comprising a relatively thin flat insulating plate arranged perpendicularly to the said surface with its rear edge positioned to be guided thereby and also comprising a conducting element carried by the insulating plate and held thereby in spaced relationship with the said surface, a normally stationary switch contact positioned to be engaged and disengaged by the conducting element of the movable switching member to make and break electrical connection through the switch, and a means additional to the said supporting means and the said switch contact carried by the said supporting means in normally fixed relation thereto and constituting a front guide for the switching member.

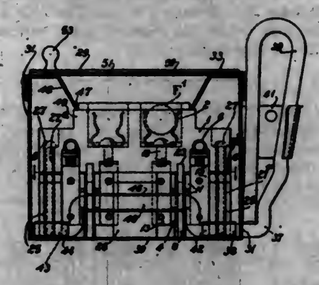
1,754,442. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Nov. 24, 1926, Serial No. 150,586. Renewed Jan. 20, 1930. 8 Claims. (Cl. 200—114.)



5. In an electric switch, the combination of an insulating base, means for holding the said base in fixed

relation to a supporting surface with the back thereof facing the said surface, two stationary switch contacts carried by the base at the back thereof, a movable conducting switching element located at the back of the base and normally engaging the said contacts to establish an electrical connection between them, an insulating element upon which the conducting element is mounted, the said insulating element being located at the back of the base and directly engaging the said base so as to be guided thereby independently of the supporting surface and independently of the contacts for rectilinear movement parallel with the plane of the said surface, and means for moving the insulating element and the conducting element as aforesaid in either direction to disengage the last said element from or reengage it with at least one of the said contacts.

1,754,443. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Dec. 10, 1926. Serial No. 153,966. 53 Claims. (Cl. 200—50.)



1. In a fused switch appliance, the combination of an insulating base, a pair of fuse receiving contacts mounted on the base, two stationary switch contacts immediately associated with the base and electrically connected respectively with the said fuse contacts, a switching member slidably engaging the base and guided in part thereby, the said switching member including two contact elements insulated from each other and adapted respectively to normally engage the said stationary switch contacts, and means for slidably moving the switching member to disengage the movable contact elements thereof from the stationary switch contacts or to reengage them therewith whereby the circuit is broken or re-established at both sides of the fuse.

1,754,444. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Original application filed Dec. 10, 1926, Serial No. 153,966. Divided and this application filed June 29, 1929. Serial No. 374,727. 10 Claims. (Cl. 200—114.)



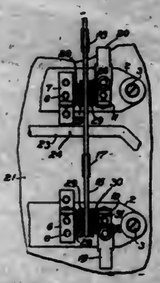
1. In an electric switch, the combination of an insulating body having a passage extending entirely therethrough, a switching member comprising an element located in part in the passage and guided for rectilinear movement longitudinally thereof and having a transverse slot therein beyond one end of the passage and the said member also comprising a transverse conducting element carried by the first said element near the opposite end of the passage, two stationary switch contacts mounted in normally fixed positions on the body near the last said end of the passage and spaced apart transversely of the direction of movement of the switching member, the said stationary contacts being positioned to be each engaged and disengaged by the conducting element of the switching member as the said member is moved rectilinearly, and a pivoted operating member supported independently of the body and having a cranked portion entering the transverse slot in the first said element of the switching member and serving upon being pivotally moved to move the switching member rectilinearly as aforesaid.

1,754,445. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Feb. 3, 1927. Serial No. 165,645. 54 Claims. (Cl. 200—114.)



1. In an electric switch, the combination of a pair of stationary switch contacts electrically insulated from each other when the switch is open and respectively having opposite parallel contact faces facing toward each other, and a switching member movable substantially rectilinearly between the said contacts and comprising an insulating element having opposite parallel surfaces and a contact element carried by the insulating element and having opposite parallel contact faces spaced laterally outward from the respective planes of the opposite surfaces of the insulating element and adapted upon rectilinear movement to engage and disengage the contact faces of the stationary switch contacts to make and break electrical connection between them, the said switching member when in the "off" position being entirely free for limited lateral movement perpendicular to the planes of the said contact faces and when in the "on" position being controlled as concerns lateral adjustment solely by the stationary switch contacts.

1,754,446. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Jan. 18, 1928. Serial No. 247,781. 2 Claims. (Cl. 200—16.)



1. In an electric switch, the combination of a movable switching member comprising an insulating element and a conducting element having opposed contact surfaces respectively adjacent opposite faces of the insulating ele-

ment, a pair of opposed electrically insulated stationary switch contacts located at opposite sides of the switching member so that the conducting element thereof is moved into and out of engagement with them to make and break electrical connection between them, each of the said contacts being formed of a strip of resilient sheet metal having at least two oppositely disposed U-shaped bends which provide an inner section with an inward facing contact surface in position to be directly engaged by the corresponding contact surface of the switching element and which provide at least two other integrally connected resilient supporting sections substantially parallel with the inner section, and stationary means associated with the stationary switch contacts and serving to guide the switching member for rectilinear movement in either direction, the said guiding means leaving the switching member free for lateral adjustment perpendicularly to the contact faces of the stationary contacts so as to be controlled as concerns such adjustment solely by the said contacts.

1,754,447. ATTACHMENT OF KEYS TO CANS. CHARLES STOLLBERG, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 23, 1024. Serial No. 727,640. 6 Claims. (Cl. 220—52.)



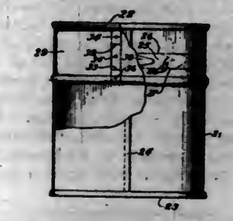
1. A can, having a portion set off by score lines and provided with a tongue adapted for engagement with a key to remove said portion to open said can, and a key for engaging said tongue, said key having an end flattened and offset from the body and formed with a projection 18' welded to said can, said key having a weakened part adapted to be broken across to permit its use in opening the can.

1,754,448. DRAWER SLIDE. JENS VAALER, Chicago, Ill., assignor to The Clemetsen Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 26, 1926. Serial No. 90,756. 11 Claims. (Cl. 45—77.)



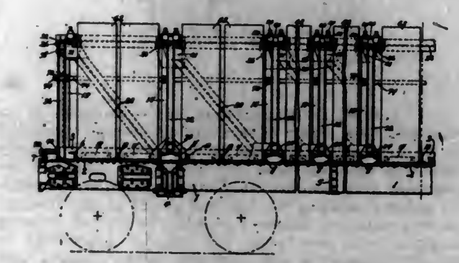
1. An extensible drawer construction comprising relatively movable members slightly spaced apart, an inner guide carried by one of said members and having opposed guide faces, an intermediate member having portions overlying both faces of the inner guide, said overlying portions each having opposed guide faces one of which is in opposition to the adjacent face of the inner guide, and a third guide having portions overlying both portions of the second member each portion forming an opposed guide face adjacent to the other guide face of the intermediate member and rotatable members interposed between all of said guide faces, said opposed guide faces being proportioned to provide different contacting surface areas for the rotatable members.

1,754,449. INTERIOR-COLLAR CAN. MAGNUS E. WIDELL, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1924. Serial No. 688,641. 3 Claims. (Cl. 220—54.)



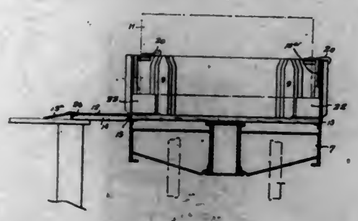
1. A container, comprising a body scored circumferentially to provide a side tearing strip, a top secured to said body, and a collar secured to the body beneath said tearing strip and extending thereabove, said collar having its ends overlapped and welded together to form a continuous member fitting snugly within the body of the container, the body being one piece of metal extending down past and below said collar.

1,754,450. MULTIUNIT TANK CAR. VICTOR WILLOUGHBY, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 26, 1928. Serial No. 315,233. 21 Claims. (Cl. 105—366.)



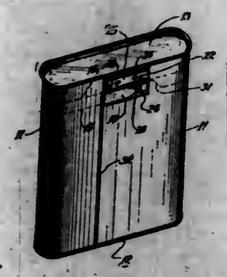
2. In a tank car, longitudinal sills, longitudinally and transversely extending members carried by said sills and having inwardly directed flanges and vertically arranged tanks mounted on said flanges.

1,754,451. INTERCHANGEABLE-CONTAINER FREIGHT CAR. GRAHAM C. WOODRUFF, Bronxville, N. Y., assignor to The L. C. L. Corporation, a Corporation of Delaware. Filed Apr. 24, 1928. Serial No. 272,471. 5 Claims. (Cl. 105—366.)



1. In a car of the class described, the combination with an underframe, of a plurality of bulkheads extending from side to side of the underframe thereby dividing the car into a plurality of stalls open at each end, at both sides of the car, a plurality of side sections swingingly mounted to the car one at each end of each stall, said sections when lowered being adapted to serve as gangways, a locking means carried by each side section adapted to interlock with the ends of the bulkheads to hold the sections in raised position.

1,754,452. CONTAINER. JOHN M. YOUNG, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 4, 1924. Serial No. 753,764. 13 Claims. (Cl. 220—54.)

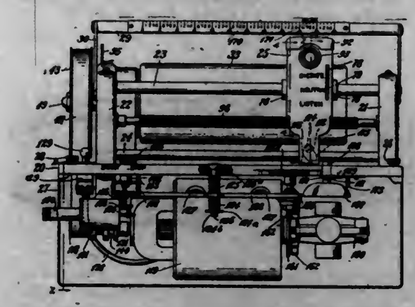


1. A can, comprising a body having a tearing strip beneath the top thereof, and a hinge consisting of a piece different from the metal of the body and applied to the exterior of the can body and connected with the body above the line of the tearing strip, and also below the line of the tearing strip, the body having a continuous one-piece wall including said tearing strip as an integral part.

1,754,453. METHOD OF REMOVING CARBON IMPURITIES FROM TANTALUM. CLARENCE W. BALKE, Highland Park, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Sept. 2, 1926, Serial No. 133,305. Renewed Feb. 28, 1929. 5 Claims. (Cl. 75—17.)

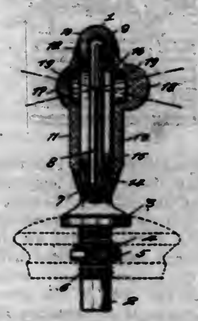
1. The process of removing the carbon impurities from tantalum which consists in mixing a predetermined amount of magnesium oxide with the tantalum and carbon, and heating the mixture in a vacuum to a temperature at which the carbon will be oxidized and the residual magnesium volatilized.

1,754,454. PHONOGRAPH STOP. ALFRED V. BODINE, Bridgeport, Conn., assignor to Dictaphone Corporation, Bridgeport, Conn., a Corporation of New York. Filed May 1, 1926, Serial No. 105,989. Renewed Sept. 7, 1929. 12 Claims. (Cl. 192—124.)



2. A phonograph comprising a frame; a motor; mechanism mounted on the frame driven by the motor; a saddle resiliently mounted on the frame and movable relatively thereto; a clutch carried by the motor for connecting the motor to the mechanism which it drives; a clutch shifter mounted on the saddle; operating means for the clutch mounted on the frame; and flexible connections between the clutch shifter and said operating means to permit movement of the resiliently mounted saddle to prevent the transmission of vibration from the saddle to the frame.

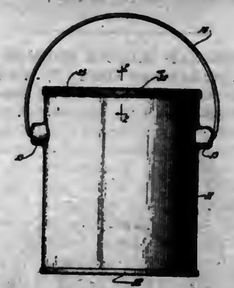
1,754,455. ILLUMINATION AND MAGNIFYING MEANS FOR MOTOR HEAT INDICATORS. HARRISON HURLBERT BOYCE, Jericho, N. Y. Filed May 26, 1927. Serial No. 194,285. 9 Claims. (Cl. 73—52.)



5. In a device for indicating the heat condition within an automotive radiator, a light-gathering lens, and a magnifying lens so positioned that their focal points substantially coincide on a portion only of said device.

7. In a device for indicating the heat condition within an automotive radiator, an indicating device having a tubular indicating element, means for concentrating light rays upon a portion only of said indicating element corresponding to the dangerous heat condition, and means for magnifying said concentrated light rays.

1,754,456. PAIL. CONVERSE B. CADWALLADER, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 16, 1925. Serial No. 62,704. 2 Claims. (Cl. 220—27.)



1. A container comprising a body having a portion of its wall near the top end of the body bent inward to form a shoulder, and a frangible closure having its margin resting on said shoulder and extending upward in a flange close to the interior of the body above the shoulder all around the interior of the can, the top marginal edge of the body wall being curled inward, downward and outward and incorporating in said curl the edge of said frangible closure, and stretching the same against said shoulder and radially outward all around the container.

1,754,457. NONCORROSIVE ALCOHOLIC SOLUTION. WILLIAM S. CALCOTT, Penns Grove, N. J., and HERBERT W. WALKER, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 20, 1928. Serial No. 307,328. 12 Claims. (Cl. 28—239.)

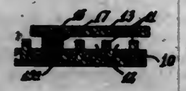
1. A non-corrosive aqueous solution of a polyhydric alcohol containing a primary aromatic diamine.

1,754,458. MUSICAL EDUCATIONAL TOY. IDA CASH, Brooklyn, N. Y. Filed Nov. 13, 1928. Serial No. 319,128. 4 Claims. (Cl. 84—471.)



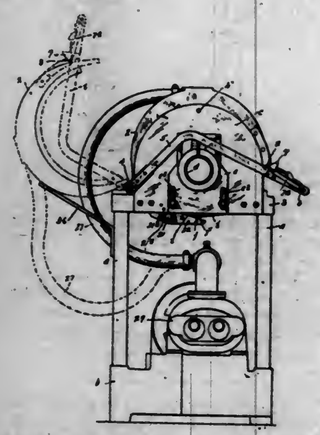
3. A musical educational toy, comprising a baseboard with a musical staff thereon and longitudinal grooves on the lines of the staff and between the lines of the staff, and movable musical symbols on the baseboard and provided with slides engaging in the grooves for positioning of the symbols, the baseboard being provided with openings communicating with the grooves for the withdrawing of the slides intermediate the ends of the grooves, said slides being suction cups capable of assuming fixed positions in the grooves.

1,754,459. MUSICAL EDUCATIONAL TOY. IDA CASH, Brooklyn, N. Y. Filed Dec. 31, 1928. Serial No. 329,598. 4 Claims. (Cl. 84—470.)



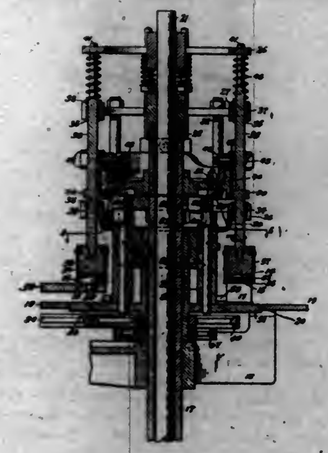
4. A device of the class described, comprising a flat base with parallel projecting ribs spaced to provide grooves, and a musical symbol with a pair of projecting resilient members adapted to engage on the ribs or in the said grooves, said resilient members being rubber tubes attached on the bottom of the symbol.

1,754,460. COMBINED MATRIX FORMER AND DRIER. ALBERT W. COCHRAN and HENRY W. DEWEY, Portland, Oreg. Filed Aug. 4, 1927. Serial No. 210,681. 15 Claims. (Cl. 34—16.)



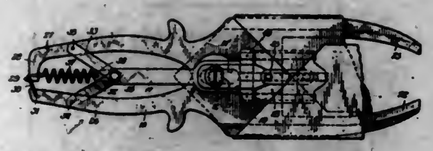
1. In the drying of a matrix, the method of preventing warping and buckling consisting in holding the matrix firmly, by a vacuum, against a firm, true surface during the drying period, and holding the perimeter margins of the matrix against said surface by applying resilient mechanical pressure to said margins.

1,754,461. BOTTLE-CAPPING MACHINE. ROBERT N. CUNDALL, Blasdell, N. Y., assignor to Cundall, Powell & Mosher, Inc., Buffalo, N. Y., a Corporation of New York. Filed July 25, 1922. Serial No. 577,418. 8 Claims. (Cl. 226—88.)



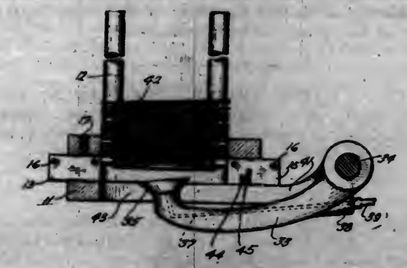
1. A machine for applying a cap to a bottle comprising a continuously rotatable cap feeder having a cap holder, a continuously rotatable bottle feeder having a jaw adapted to carry a bottle, a continuously rotatable turret moving past said cap and bottle feeders, a cap gripping chuck mounted on said turret and movable laterally by the same from said cap feeder to said bottle feeder, and means for moving said gripping chuck toward and from said cap feeder, and toward and from said bottle feeder.

1,754,462. VALVE-BAG CLOSING AND SEALING TOOL. ARTHUR L. CURRIER, Ashburnham, Mass., assignor to Cornell Multi-Wall Valve Bag Company, Fitchburg, Mass., a Corporation of Delaware. Filed June 9, 1928. Serial No. 284,235. 5 Claims. (Cl. 226—56.)



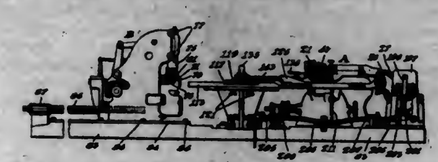
1. A device for closing openings of bags comprising means for entering a bag opening, said means having relatively movable elements contacting portions of the wall of said opening, said means being constructed to move said elements in a manner to cause opposite walls of said openings to approach each other, and means for depositing adhesive between said approaching walls.

1,754,463. COVER FEED. GEORGE C. ERB, Roselle Park, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 22, 1928. Serial No. 263,807. 7 Claims. (Cl. 113—114.)



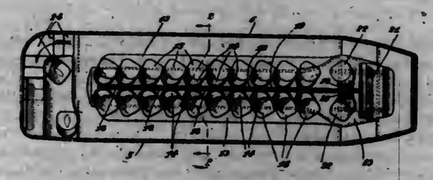
1. In a can end feed device and in combination therewith, a plurality of supporting and separating units, each unit comprising a plurality of spring-pressed blocks retractible to permit the passage of can ends, and means for releasing said units and for securing them in desired positions relative to the can ends.

1,754,464. APPARATUS FOR OPERATING UPON PARTS OF SHOE UPPERS. JOSEPH FOSSA, Danvers, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 10, 1926, Serial No. 115,113, and in Great Britain May 11, 1926. 61 Claims. (Cl. 12—51.)



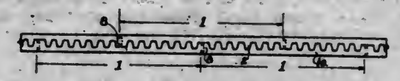
1. Apparatus for finishing the edge of a blank and for perforating the blank having, in combination, shrinking mechanism, perforating mechanism, and means for presenting a blank to and feeding it successively past said mechanisms.

1,754,465. UPPER-DECK SEATING ARRANGEMENT FOR BUSSES. CONRAD T. HANSEN, Philadelphia, Pa., assignor to Hale & Kilburn Co., a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,276. 4 Claims. (Cl. 296—64.)



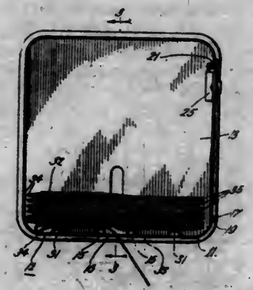
1. A bus body having a lower deck and an upper deck, a partition constituting the ceiling of the lower deck and the flooring of the upper deck, said partition having a longitudinally arched center portion and substantially horizontal aisle portions at each side of the bus, a rail extending longitudinally of said arched portion, brackets supported by and extending laterally from said rail and individual seats carried by said brackets and disposed in rows on opposite sides of the rail in angular relation to each other.

1,754,466. MATERIAL STRIP FOR USE IN THE MANUFACTURE OF LOCK WASHERS. RICHARD T. HOSKING, Wilmette, Ill., assignor, by mesne assignments, to Shakeproof Lock Washer Company, Incorporated, Chicago, Ill., a Corporation of Delaware. Filed Dec. 16, 1927. Serial No. 240,394. 1 Claim. (Cl. 29—148.)



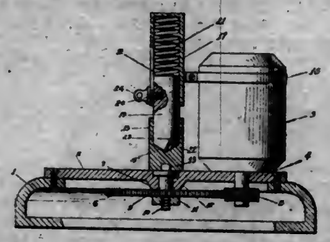
A base material strip for use in the manufacture of lock washers, comprising a ribbon of flexible metal capable of being bent to annular form in its own plane and hardened, said ribbon formed along a longitudinal edge with regular prongs having end portions, whose width and thickness are substantially equal, said prongs alternating with spaces substantially equal in width to the width of the prongs, said prongs twisted around their longitudinal axes to present biting edges that project beyond the planes of the faces in the strip, in opposite directions.

1,754,467. TOWEL-DISPENSING CABINET. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 24, 1927. Serial No. 162,952. 2 Claims. (Cl. 312—60.)



1. A dispenser for folded sheets of paper and the like, which are superimposed one on the other in a gravitating pile, with their folds arranged at the opposite sides of said pile, comprising, an enclosing receptacle of sheet metal formed of substantially rectangular end members and side wall portions double seamed to said end members, the edges of the bottom portions being cut away to leave interruptions in said double seam, the material of said bottom wall portions at said interruptions being bent inwardly of the receptacle in curved form to provide support for said pile.

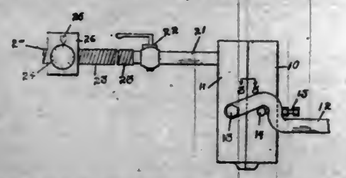
1,754,468. MORTAR AND PESTLE. FREDERICK G. JELLISON, Georgetown, Mass. Filed Nov. 5, 1928. Serial No. 317,318. 3 Claims. (Cl. 83—10.)



1. A mortar having its lower wall cut angularly from two of its opposite sides to its end, a pestle designed to be

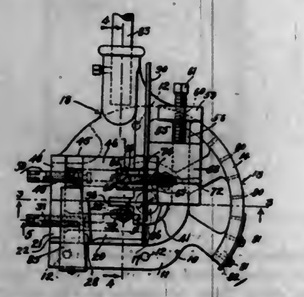
freely received in the mortar and having its active end cut angularly from two of its opposite sides, spring means influencing the pestle into the mortar, means for holding the pestle from turning and means for rotating the mortar.

1,754,469. FILLING MOLD. AUGUST KADOW, Toledo, Ohio, assignor of one-half to Wilber Owen and Charles W. Owen, Toledo, Ohio. Filed June 19, 1926. Serial No. 117,013. 14 Claims. (Cl. 22—73.)



1. The method of introducing material into a mold by differential pressures upon the material outside the mold and inside the mold, the mold having a cavity of such shape and size that a constant differential pressure sufficient to fill the mold results in cavities within the casting, which consists in gradually increasing the differential pressure as the mold fills up.

1,754,470. BENDING MACHINE. JAMES R. KERLIN, Los Angeles, Calif. Refiled for abandoned application Serial No. 267,054, filed Dec. 16, 1918. This application filed June 18, 1924. Serial No. 720,875. 10 Claims. (Cl. 153—20.)



1. In a metal bending machine, a base member provided with an abutment, a bending member pivotally mounted on said base member, a pair of clamping jaws slidably mounted on said bending member for independent adjustment thereon, the work face of one of said clamping jaws being adapted at all times to slide in a radial direction with respect to the center of rotation of said bending member, the work face of said abutment being in substantial alignment with the opposed work faces of said clamping jaws before the bending operation, and means for adjusting said abutment out of such alignment.

1,754,471. LOOSE-LEAF BINDER. ERIK L. KRAG, Chicago, Ill. Filed Mar. 31, 1928. Serial No. 266,154. 5 Claims. (Cl. 129—17.)



1. A loose leaf binder comprising a frame having two hinged parts, a slidably mounted strip in one of said parts, a plurality of prongs fixed to said strip, a finger fixed to said strip and projecting into said frame part, a member movably mounted in said frame and adapted to coact with said finger, resilient means for holding said member against said finger, and a shoulder on said member adapted to prevent movement of said finger until the force of the spring has been overcome.

1,754,472. WATER HEATER. OTTO JOHN KUENHOLD, Cleveland, Ohio, assignor to The Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Mar. 5, 1926. Serial No. 92,397. 10 Claims. (Cl. 122—156.)



9. A water heater comprising, a concentric vertical shell and flue device connected adjacent their ends to provide an intermediate water chamber, said flue device having alternate enlargements and contractions throughout its length, a vertical series of transverse water passages traversing the respective enlargements of said flue and communicating at their ends with said water chamber, said alternate enlargements except the uppermost one and contractions being of successively decreasing cross-sectional area in the direction of the flow of gases and the uppermost enlargement being laterally protruded to a greater extent than the immediately adjoining lower enlargement.

1,754,473. MANUFACTURE OF CALCIUM HYPOCHLORITE. ROBERT B. MACMULLIN and JESSE A. GUYER, La Salle, N. Y., assignors to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Aug. 4, 1926. Serial No. 127,168. 9 Claims. (Cl. 23—86.)

4. A process of making calcium hypochlorite which comprises chlorinating a lime slurry and promoting the separation of calcium hypochlorite by the addition of sodium chloride, and employing the solution remaining after separation of the calcium hypochlorite as a diluent in connection with the addition of sodium chloride to promote the separation of calcium hypochlorite in the process.

8. A process of making calcium hypochlorite which comprises chlorinating a lime slurry containing not more than about 37 lbs. of water and not less than about 24 lbs. of water per 10 lbs. of lime and promoting the separation of calcium hypochlorite from the chlorinated mixture by the addition of sodium chloride.

1,754,474. PRODUCTION OF NEW HYPOCHLORITE COMPOSITIONS. ROBERT B. MACMULLIN and MAURICE C. TAYLOR, Niagara Falls, N. Y., assignors to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Dec. 29, 1928. Serial No. 329,308. 9 Claims. (Cl. 23—86.)

8. The method of producing a new hypochlorite compound which comprises adding sodium chloride to a chlorinated lime solution containing calcium hypochlorite and calcium chloride while maintaining the solution at a temperature not substantially exceeding 0° C. to precipitate a triple salt of calcium hypochlorite, sodium hypochlorite and sodium chloride.

1,754,475. PRODUCTION OF NEW HYPOCHLORITE COMPOSITIONS. ROBERT B. MACMULLIN, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Sept. 27, 1928. Serial No. 308,885. 6 Claims. (Cl. 23—86.)

6. The method of producing a new hydrochlorite compound, which comprises chlorinating caustic soda, and calcium hydroxide in the proportion of two equivalents of the former to one of the latter, in a solution saturated with respect to sodium chloride and the triple salt $Ca(OCl)_2.NaOCl.NaCl.12H_2O$ under conditions of temperature and concentration such that only sodium chloride precipitates during the chlorination, separating precipitated sodium chloride and, after such separation, adding caustic soda and calcium hydroxide in the same proportion, to the chlorinated solution and continuing the chlorination under conditions of temperature and concentration such that a triple salt of calcium hypochlorite, sodium hypochlorite and sodium chloride will precipitate, precipitating and separating this triple salt from the chlorinated solution and reusing the mother liquor from which the precipitated triple salt has been separated in the chlorination of further quantities of caustic soda and calcium hydroxide in the process.

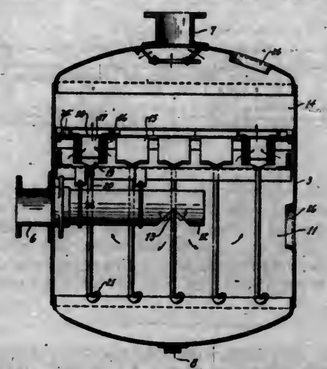
1,754,476. SALT-CAN SPOUT. DONALD G. MAGILL, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 16, 1926. Serial No. 102,407. 9 Claims. (Cl. 221—11.)



1. A device of the class described comprising a container provided with a cover having an aperture therethrough, a spout comprising a lid portion adapted to normally close the aperture in said cover and having pivotal portions overlying said cover, said spout having members adapted to normally extend within the container, said members having portions adapted to cut through the edge portions of the aperture of the cover when said members are inserted through the aperture, said cutting portions constructed and arranged to normally lie on the under side of the cover and to cooperate with said pivotal portions of the lid to permit a nondetachable hinging movement of the spout.

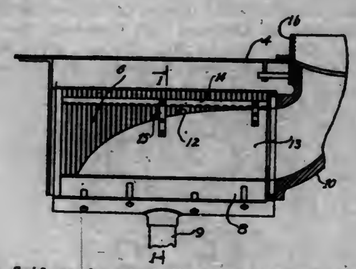
1,754,477. SEPARATOR. ABRAHAM L. MENZIN, San Francisco, Calif., assignor, by direct and mesne assignments, to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed June 29, 1925. Serial No. 40,193. 7 Claims. (Cl. 183—113.)

5. A steam purifier system comprising a hollow casing, a steam inlet and a steam outlet mounted in the walls of said casing, and a horizontal diaphragm mounted in said casing between said inlet and outlet and forming a partition between the upper and lower portions of the casing, said diaphragm having openings therethrough, and a steam purifier fixed to said diaphragm adjacent each of



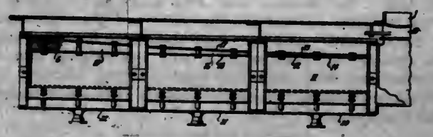
the said openings and with its steam outlet registering with the opening, and a liquid drain connected with each of said purifiers, the aggregate capacity of said openings being many times as great as the capacity of the casing outlet.

1,754,478. STEAM SEPARATOR. ABRAHAM L. MENZIN, San Francisco, Calif., assignor, by direct and mesne assignments, to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed May 22, 1926. Serial No. 111,078. 12 Claims. (Cl. 183—11.)



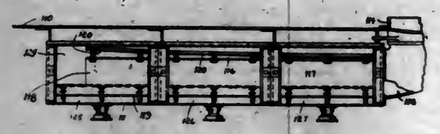
4. A fluid receiver including an elongated passageway having an outlet near one end, and a fluid inlet extending substantially from one end to the other thereof, one edge of said inlet curving from one end to the other, the curve of said curved edge being substantially a conical section.

1,754,479. FLUID SEPARATOR. ROGER W. ANDREWS, Pittsburgh, Pa., assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed Dec. 5, 1925. Serial No. 73,317. 3 Claims. (Cl. 183—111.)



1. A fluid separator comprising a passageway having an inlet and having an outlet adjacent one end, said inlet comprising a plurality of sections, the width of each section of said inlet varying as the change in distance from the end of the inlet of that section varies, but the rate of change per unit of length of such variations in one section being unlike the rate of change in the other sections.

1,754,480. FLUID SEPARATOR. HARRY E. BOYRIE, San Francisco, Calif., assignor, by mesne assignments, to Blaw-Knox Company, Blawnox, Pa., a Corporation of New Jersey. Filed Apr. 29, 1925. Serial No. 26,566. 8 Claims. (Cl. 183—111.)

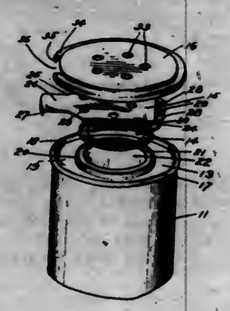


5. A fluid receiver comprising an elongated casing, said casing having an outlet, an interior conduit in said casing, said conduit having an elongated inlet extending substantially from one end to the other, the end of said conduit most remote from said outlet being open and being spaced a material distance from the adjacent end of said casing.

1,754,481. PROCESS FOR PROTECTING EASILY-OXIDIZABLE METALS SUCH AS THOSE HAVING A BASE OF MAGNESIUM, ALUMINUM, CALCIUM, ETC. GILBERT MICHEL, Bagneux, France. Filed Mar. 8, 1928, Serial No. 260,256, and in France Mar. 12, 1927. 4 Claims. (Cl. 148—6.)

8. A process of protecting a magnesium article which comprises coating the same with a varnish composition containing a free phenol which will react with the surface of the metal, and a soluble phenol-aldehyde condensation product which is of resinous consistency.

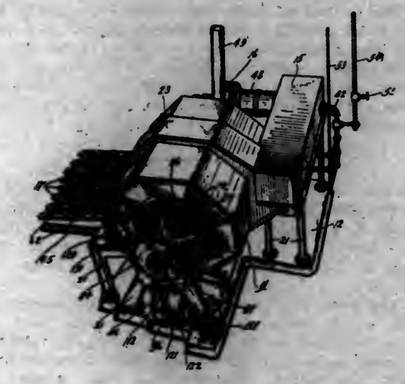
1,754,482. CONTAINER. HENRY M. NICHOLLS, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed May 31, 1928. Serial No. 281,664. 5 Claims. (Cl. 221—62.)



1. A sifter top for containers, comprising an inner top member having a pouring opening, an outer top member having sifter openings, a perforated slide operating between said members, and a gasket interposed between the inner top member and said slide and adapted to press the slide against the top plate and prevent passage of the contents except through the sifter openings when the slide is manipulated for sifting and to hold said top member and said slide in tight yielding contact, and means for holding the gasket against sidewise movement with the slide.

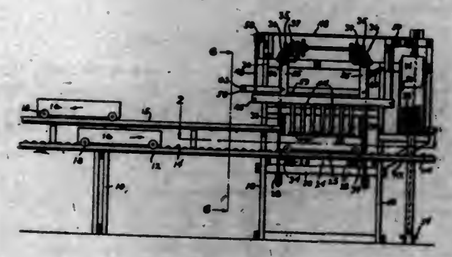
1,754,483. ROTARY CAN-END DRIER. HORACE J. PAYNTER, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 2, 1927. Serial No. 165,302. 45 Claims. (Cl. 34—28.)

1. An apparatus for drying can ends, comprising, means providing a drying chamber, means for positioning can ends in the chamber for a predetermined period of time, a carrier conveying the can ends in circular paths about a horisontal axis in said drying chamber, and means for circ-



culating heated air through the chamber to dry the can ends and means for heating the air as an incident to the circulation thereof.

1,754,484. BLOCK-EJECTING MACHINE. JOHN C. PELTON, Santa Barbara, Calif. Filed Dec. 27, 1926. Serial No. 157,206. 2 Claims. (Cl. 25—2.)

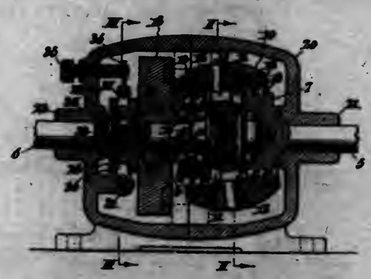


2. A brick making apparatus comprising a pair of tracks arranged one above the other, said tracks having oppositely disposed openings, a movable track section normally disposed in the opening of the lower track, a form having a separable pallet adapted to be moved along said tracks, means to elevate the movable track section with the form into the opening of the upper track, plungers adapted to engage the blocks in said form as the sectional track is elevated, supporting means for said plungers adapted to be elevated from the form after the ejection of the blocks for freeing the form from said plungers, the empty form being returned over the upper track after an ejectment of the blocks therefrom, and means to lower the sectional track into normal position on the lower track.

1,754,485. VARIABLE-SPEED GEARING. JOSEPH PERCY REMINGTON, Philadelphia, Pa. Filed Jan. 25, 1929. Serial No. 334,874. 6 Claims. (Cl. 74—14.)

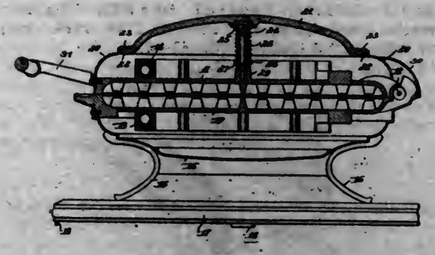
1. A variable speed transmission comprising coaxial eccentrics, one driven from a source of power and the other freely rotatable; a member engaged with both of said eccentrics to be oscillated by them; a fulcrum for

said member permitting oscillation thereof by said eccentrics; transmission means for transmitting rotation of



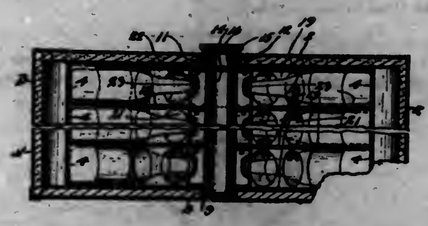
said member due to its coaction with said eccentrics and fulcrum; and means for controlling and varying the resistance to rotation of said freely rotatable eccentric.

1,754,486. WAFFLE IRON. HOWARD H. SCHOTT, Rochester, N. Y., assignor to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed July 1, 1929. Serial No. 374,984. 15 Claims. (Cl. 53—10.)

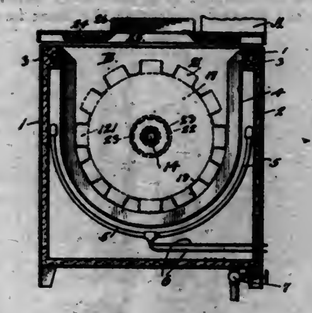


1. In a waffle iron, the combination with upper and lower grids, of a casing above the upper grid, a casing below the lower grid, and an electric heating element within each casing for heating the associated grid, said upper casing having a substantial portion thereof constructed of ceramic material and said lower casing being constructed substantially entirely of material having higher heat conductivity than that of said ceramic material.

1,754,487. BOTTLE HOLDING AND DISPENSING CABINET. JOHN J. SCHWEITZER, Sandusky, Ohio. Filed Sept. 29, 1927. Serial No. 222,768. 4 Claims. (Cl. 312—36.)

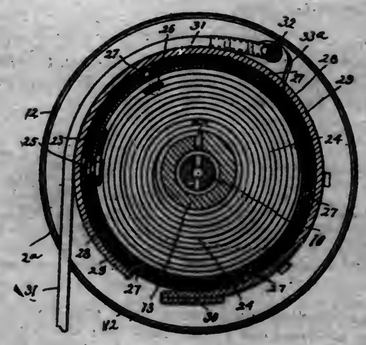


1. Bottle dispensing mechanism of the class described, comprising, in combination, a cabinet, bottle holding units supported in said cabinet, a cover for said cabinet, said cover being provided with openings through which bottles may be dispensed, and a mounting for the cover on the cabinet rendering the same movable out of the path of travel of any of the bottle holding units when they are to be removed from the cabinet.



4. Bottle holding and dispensing mechanism of the class described, comprising, in combination, a cabinet, a bottle holding unit, a shaft therefor, means on one side of the cabinet for slidably and rotatably receiving said shaft, another side of said cabinet having an opening therein to receive the shaft, and means associated with the shaft and cooperating with the said last named side of the cabinet for retaining said shaft in its operative position.

1,754,488. SHOCK ABSORBER. JACOB R. SNYDER, Cleveland, Ohio. Filed Aug. 9, 1924, Serial No. 731,017. Renewed Sept. 12, 1929. 9 Claims. (Cl. 267—10.)

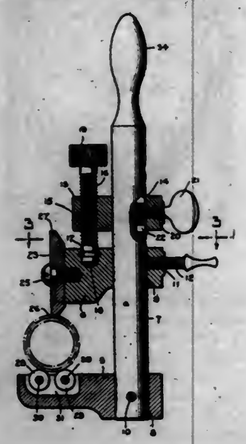


1. In a shock absorber, a rotatable friction member having a strap connected thereto so as to be wound onto and unwound therefrom, and a stationary expansible and contractible friction member between the strap and the rotatable member, one of said last mentioned parts being faced with friction material.

1,754,489. SCREW-THREAD CHASER. THOMAS K. STEVENSON, New York, N. Y., assignor to Francis Van Blarcom, New York, N. Y. Filed Sept. 15, 1926. Serial No. 135,530. 1 Claim. (Cl. 10—1.)

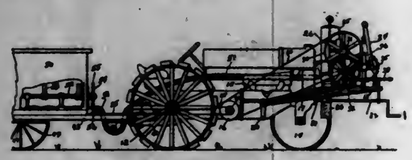
A screw thread chaser comprising a shank terminating at one end in a handle portion, a stationary jaw member secured to the opposite end of the shank and extending at right angles thereto, aligned spaced roller bearing members carried by the stationary jaw, a sliding jaw member mounted on the shank, a thread shaper detachably connected to the sliding jaw member and having serrated opposite end portions either of which is adapted to mesh

simultaneously with successively disposed sections of the thread to be chased, and means for adjustably securing the sliding jaw member at various distances from the stationary jaw member, said means including a block adjustably mounted on the shank, means including a set screw carried by the block and adapted to be selectively seated in spaced sockets in the shank for securing the block in any of its



adjusted positions on the shank, an adjusting screw connection between the block and the sliding jaw and disposed at right angles to the block-securing means, and means carried by the sliding jaw and cooperating with the support to secure the sliding jaw in any of its adjusted positions, the last-named means being arranged at right angles to the adjusting screw.

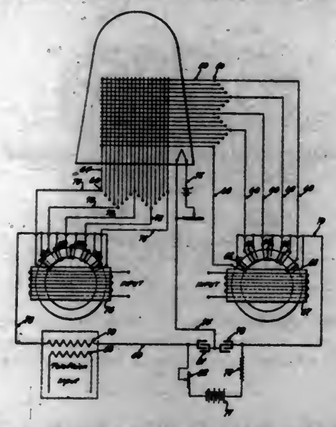
1,754,490. SPRAYING MACHINE. SAMUEL C. STEWART, Hunting Creek, N. C. Filed Feb. 17, 1928. Serial No. 255,020. 8 Claims. (Cl. 299—45.)



1. In a spraying apparatus, a motor propelled frame, a pump on the front end of the frame gear and belt connection between the pump and the motor for driving the pump, a wheeled frame pivotally secured to the rear end of the tractor for lateral movement, a tank mounted on the pivoted frame, a longitudinally disposed shaft mounted in the tank, agitating devices mounted on the shaft, a pulley mounted on the front end of the shaft, a belt mounted on the pulley and running through other pulleys to the said motor, pivoted means holding a portion of the pulleys to preserve a uniformity of tautness in the belt while the tractor is being turned at an angle to the pivoted wheeled frame secured to the rear end thereof, and a hoseline leading from the tank to the pump.

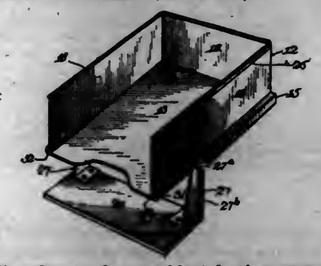
1,754,491. SYSTEM FOR TRANSMISSION AND RECEPTION OF TELEVISION. GEORGE WALD, Belleville, Ill. Filed Mar. 18, 1929. Serial No. 347,792. 10 Claims. (Cl. 178—6.)

1. A system of television comprising a receiving element including a plurality of intersecting anode and cathode elements enclosed in a gas-filled tube and adapted to produce, at selected intersecting points of varying brightness, circuits for receiving impulses of separated frequencies connected respectively with the anode and cathode elements to impress thereon varying potentials, and a tele-



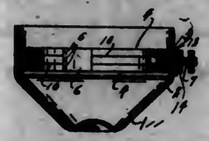
vision input circuit whereby additional potential is impressed at selected intersections of the anode and cathode elements responsive to a television controlled sending circuit.

1,754,492. FILING-CABINET DRAWER. PETER A. WETZEL, Springfield, Ill. Filed Dec. 18, 1926. Serial No. 155,582. 5 Claims. (Cl. 45—7.)



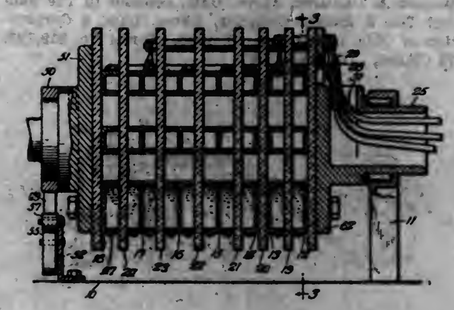
5. A filing drawer for a cabinet having grooves in the sides thereof, said drawer comprising a pair of sides, a bottom and runners projecting laterally from the side margins of the bottom and adapted to slide longitudinally in the grooves in the cabinet-sides, the sides, bottom and runners of the drawer being formed integrally with each other and bent from a single plate of sheet metal, and a drop front provided with rearwardly extending brackets pivotally connected to said drawer-sides, the plate from which the sides, bottom and runners are formed being cut away so that the front ends of the runners terminate adjacent the rear ends of the brackets, and embodying flanges adjacent the cut away portions for securing the front ends of the sides to the bottom.

1,754,493. LAMINATED TIMER INSULATION. LOUIS A. ALEXANDER, Toledo, Ohio. Filed Jan. 4, 1926. Serial No. 79,124. 1 Claim. (Cl. 200—19.)



A multi-terminal timer housing, peripherally spaced sectional insulation end grain segments, and terminals between the segments completing with the segments an annular path.

1,754,494. ELECTRIC SWITCH. CARL A. ANDERSON and JESSE C. OSBORN, St. Joseph, Mich., assignors to Reliance Elevator Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 26, 1927. Serial No. 178,722. 7 Claims. (Cl. 200—152.)



1. A device of the character described comprising a plurality of plates having recesses in the side faces thereof, insulating disks separating said plates and covering said recesses, bodies of mercury in said recesses normally insulated from each other by said disks, means for connecting said bodies of mercury to electric circuits, certain of said disks being provided with ports therethrough connecting the adjacent recesses, said ports being normally spaced from the mercury in said recesses, and means for changing the relative position of said mercury and said recesses to bring the adjacent bodies thereof into contact through said ports.

1,754,495. GOLF-BALL HOLDER. OLAF A. ANDERSON, Hamilton, Ohio; The Citizens Savings Bank & Trust Company, executor of said Olaf A. Anderson, deceased, assignor to Josephine Anderson, Hamilton, Ohio. Filed Apr. 22, 1927. Serial No. 185,801. 6 Claims. (Cl. 150—1.5.)



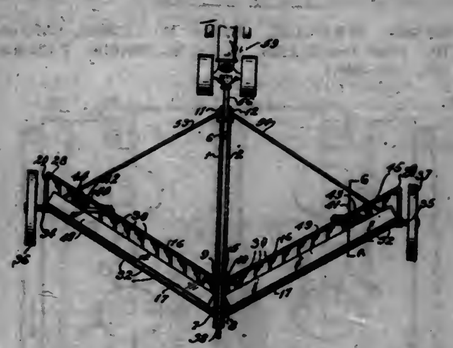
2. In an article of the class described, a container, a cover therefor, said cover having openings in the lower side thereof into which golf tees may be inserted with their heads down, and means for releasably retaining said tees in said cover.

1,754,496. DISPENSING TUBE. EDWIN H. BARKER, Moylan, Pa., assignor to A. H. Wirz, Inc., Chester, Pa., a Corporation of Pennsylvania. Filed Feb. 9, 1928. Serial No. 252,998. 9 Claims. (Cl. 221—60.)



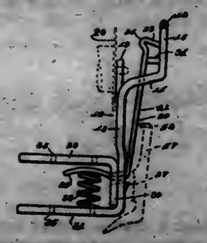
1. A two-part collapsible dispensing tube comprising a fibrous body portion and a dispensing terminal molded to one end thereof.

1,754,497. GRAIN DRILL. WALLACE BOUCHER, Minneola, Kans. Filed Mar. 12, 1928. Serial No. 261,022. 8 Claims. (Cl. 111—56.)



1. A grain drill comprising a central longitudinal draft-bar, two gang frames fastened to the rear portion of the draft-bar with their outer ends in advance of the rear ends of the gangs, tie-bars connecting the outer ends of the gang frames to the forward end of the draft-bar, discs connected to the gang frames and grain feeding mechanism above the discs.

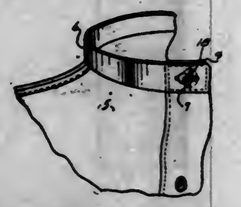
1,754,498. TUBE FRAME FOR WEAVING. JAMES J. BROGAN, Hightstown, N. J. Filed Mar. 26, 1929. Serial No. 350,100. 2 Claims. (Cl. 139—10.)



1. In a tube frame for weaving, the combination with a chain having links formed with lateral openings, of a

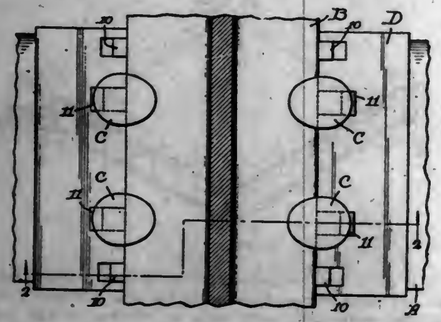
hanger comprising a chain engaging member, a spool bearing member, a spring pressed latch adapted to normally engage said chain engaging member and a pin carried by said latch adapted to enter the lateral opening in the link of said chain to retain said chain on said chain engaging member.

1,754,499. NECKBAND CONSTRUCTION. ALBERT A. BROWNSTEIN, Walnut Park, Calif. Filed Oct. 20, 1928. Serial No. 313,744. 2 Claims. (Cl. 2—128.)



2. As a new article of manufacture, a collar-band having a buttonhole and a piece of material stitched along its edges to said collar-band and having a slit formed therein at right angles to said buttonhole and crossing it to permit the passage therethrough of a collar-button so that the base thereof will rest upon a semi-united surface of said material.

1,754,500. TIE-PLATE. BYRON M. CHENEY, Chicago, Ill. Filed July 2, 1928. Serial No. 289,649. 7 Claims. (Cl. 238—304.)



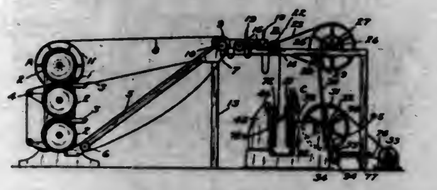
1. The method of manufacturing a tie plate adapted to support railroad spike heads away from a rail base which comprises producing a standard plate body and then forming projections on said plate body for engaging under the spike head.

1,754,501. FOLDING SEAT. ERNEST G. COVELL, Los Angeles, Calif., assignor to Cameo Refrigerator Corporation, Los Angeles, Calif. Filed Aug. 3, 1927. Serial No. 210,266. 6 Claims. (Cl. 155—83.)



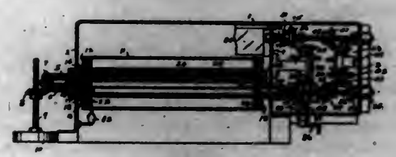
1. In combination a frame, a seat including two pivotally connected sections, means connecting the inner end of the seat and the frame for relative movement, and means whereby the seat is set against movement relative to the frame when the seat sections are in operating position, said last mentioned means including a locking member actuated by the outer seat section.

1,754,502. METHOD OF AND APPARATUS FOR THE MANUFACTURE OF INNER TUBES AND THE LIKE. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 16, 1928. Serial No. 319,795. 15 Claims. (Cl. 18—19.)



3. A machine for making annular tubes comprising a rubber mill for delivering rubber stock in sheet form, a festooning roller over which the sheet is delivered from the mill, means for accumulating slack in the sheet adjacent said roller, tube forming dies beneath the festooning roller, means for reciprocating one of the dies toward and from the other, means above the dies for supporting an end of the sheet, and means for intermittently actuating said roller to festoon the sheet between the dies.

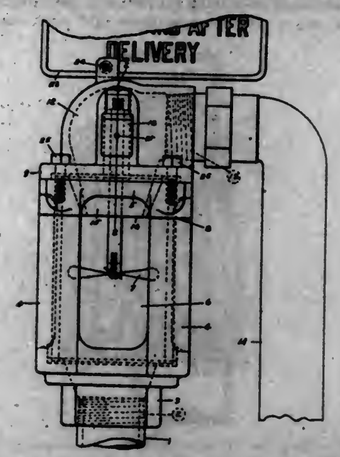
1,754,503. INDICATOR AND RECORDER. WALTER K. DWELLE, Houston, Tex., assignor of forty per cent to John T. Deaver, twelve and one-half per cent to James Lawlor, and seven and one-half per cent to C. C. Cunningham, Houston, Tex. Filed Oct. 17, 1927. Serial No. 226,715. 1 Claim. (Cl. 234—81.)



A recorder adapted for use on motor vehicles and including a rotatably mounted record receiving element, means for imparting a rocking movement to said element which varies as the speed of the vehicle varies, a record making means co-operating with said element, means for moving said record making means, relative to said element, and at a constant rate of speed and means for automatically reversing the direction of movement of said record making means and means for automatically stopping the movement of said record making means at the end of a cycle of its movement.

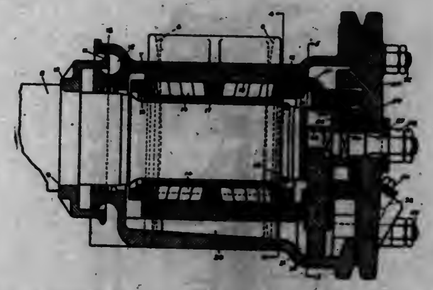
1,754,504. GASOLINE PUMP. EARL E. EICKMEYER, Dayton, Ohio, assignor to The Dayton Pump & Mfg. Company, Dayton, Ohio, a Corporation of Ohio. Filed June 23, 1927. Serial No. 200,785. 5 Claims. (Cl. 221—100.)

1. In a sight glass mechanism, the combination of a gasoline supply and exit line, a sight glass, a dome member mounted on said sight glass, and means on the dome forming an air passage and extending to a point within



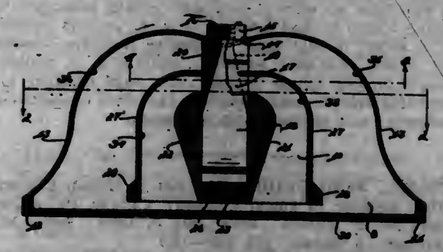
said sight glass which is visible therethrough to admit air and said dome having means near the top thereof for connection to the exit line.

1,754,505. RAILWAY TRUCK. CHARLES J. ELLIS, Cincinnati, Ohio, assignor, by mesne assignments, to The Cincinnati Car Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 14, 1929. Serial No. 339,815. 12 Claims. (Cl. 105—49.)



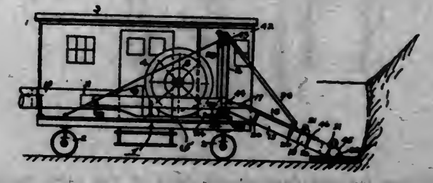
7. In combination in a vehicle of a bearing casing, a bearing therein, an axle supported thereby, a brush plate supported by said casing adjacent the end of the axle having an aperture, a brush mounted therein and means to cause said brush to yieldingly engage the end of said axle.

1,754,506. SOUND AMPLIFIER. CHARLES C. FLYNN, Detroit, Mich. Filed May 14, 1928. Serial No. 277,467. 4 Claims. (Cl. 181—27.)



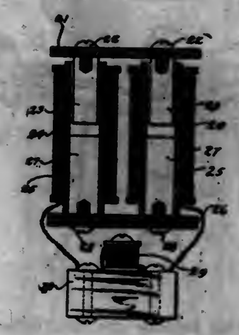
1. A sound amplifier of the class described, comprising: a housing having side walls; supporting plates mounted on said side walls; a covering for said side walls; a sound passage extending inwardly of said housing, projecting beyond said supporting plates; a pair of coverings, each positioned on said supporting plates at oppostie sides of said passage, said supporting plates cooperating with said sound passage for dividing said housing into a plurality of pairs of outlet passages.

1,754,507. PNEUMATIC EXCAVATOR AND CONVEYER. HENRY A. FROHM, Aetna, Ind. Filed Sept. 26, 1924. Serial No. 740,029. 2 Claims. (Cl. 302—17.)



2. In pneumatic systems, a blower mounted on a movable frame, an intake opening in operative relation to the blower, an exit therefrom, a swingable pipe, a fixed pipe connected to the exit of the blower, a universal joint connecting the two pipes, an elongated nozzle supported by the outer end of the swingable pipe, means for actuating the blower to draw material into the nozzle and deliver it where desired, and means for manipulating the swingable pipe and the nozzle in unison.

1,754,508. SECONDARY CLOCK MOVEMENT. ROLLAND S. FULTON, Detroit, Mich., assignor to Time Systems Company, a Corporation of Michigan. Filed Dec. 1, 1924. Serial No. 753,243. 1 Claim. (Cl. 175—338.)

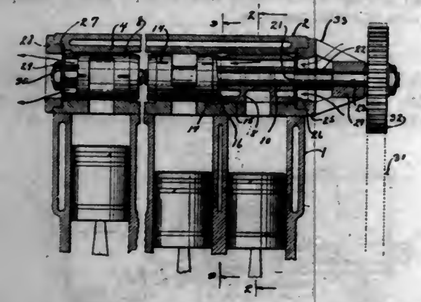


In a secondary clock mechanism for operation on commercial alternating current supply lines and having a pivoted escapement lever, a solenoid for connecting to an alternating current supply, a core in the solenoid, metallic rod retarding means connected to the escapement lever and extending into the solenoid to coact therewith, and current-surge-absorbing means connected in parallel with the solenoid.

1,754,509. ROTARY VALVE. PETER J. GILBERT, Manitowoc, Wis., assignor to Arthur A. Eisenman, Manitowoc, Wis. Filed Feb. 9, 1927. Serial No. 166,927. 2 Claims. (Cl. 123—59.)

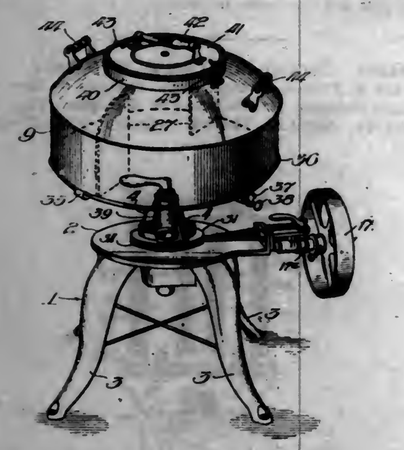
1. A multiple cylinder internal combustion engine having a continuous cylinder block closing the ends of the cylinders and provided with a cylindrical valve casing, said valve casing having diametrically arranged inlet and exhaust ports and an intermediate cylinder port, a composite rotary valve mounted within said casing and consisting

of a plurality of cylindrical valves arranged with their ends in abutting relation, each valve having a longitudinally extending ventilating opening forming a continuous opening from one end of the composite valve to the other,



and ring-like end caps at the ends of the valve casing have openings therethrough, whereby a current of air may be passed through said composite valve from one end to the other.

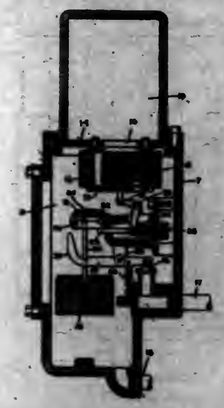
1,754,510. WASHING MACHINE. LOUIS GREENBERG, Chicago, Ill. Filed Jan. 14, 1925, Serial No. 2,334. Renewed May 20, 1929. 19 Claims. (Cl. 259—72.)



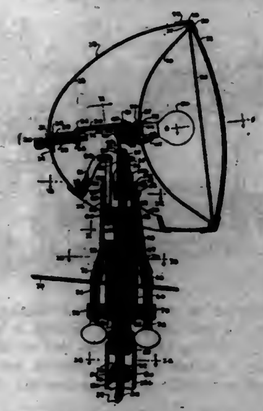
1. In a washing machine, the combination with a container, of a gimbal joint structure carrying the container for tilting movement in all directions, said joint structure including a pair of gimbal joint members, one of which serves as a seat for the container, and means operable from below the container for effecting the universal tilting of the container on said joint.

1,754,511. ACCELERATOR FOR DRY-PIPE VALVES. FRANCIS H. GRIFFITHS, Yonkers, N. Y., assignor to The Reliable Automatic Sprinkler Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 26, 1928. Serial No. 670,859. 4 Claims. (Cl. 169—20.)

1. An accelerator for dry pipe valves comprising a casing, a syiphon bellows within the casing dividing the latter into two chambers, said syiphon having a restricted orifice forming a restricted communication between the chambers, means connecting one chamber to the system side of a dry pipe valve and also connecting said chamber to the neutral chamber of said valve, a valve normally closing the latter connection, a weight which by its falling movement opens the valve, means including a sliding spring-pressed latch for normally holding the weight elevated, and a connection between said latch and the syiphon bellows, whereby a reduction of pressure on the system side of the dry pipe valve will cause the syiphon bellows to actuate the spring-pressed latch and release the weight.



1,754,512. SPOTLIGHT. JOHN S. GULLBORG, Chicago, Ill., assignor to Alemite Die Casting & Mfg. Co., Woodstock, Ill., a Corporation of Illinois. Filed Mar. 15, 1928. Serial No. 261,725. 9 Claims. (Cl. 240—61.)

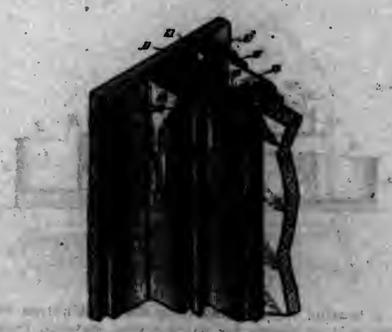


1. A device of the class described comprising in combination an electric lamp, means for rotating said lamp comprising a flexible tube operatively connected therewith, a rigid guiding member within said tube, means for rotating said tube, an electric conductor passing through said guiding means to said lamp, a terminal on said conductor, a socket in said lamp, conducting members between said socket and said terminal, comprising a resilient member having sliding contact with said terminal for permitting relative rotary motion, and arms conductively associating said members with said socket.

1,754,513. SASH GUIDE. WILLIAM S. HAMM, Elkhart, Ind., assignor to Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1929. Serial No. 375,956. 5 Claims. (Cl. 189—75.)

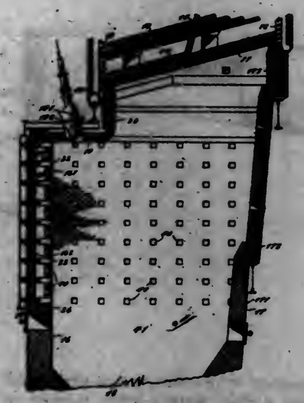
1. In a sash guide, the combination with a strip adapted for fixed attachment to a jamb, and a sash-retaining strip

removably carried by the fixed strip, of a thin readily yieldable strip of spring metal also carried by the fixed strip in opposition to the removable strip for resiliently



yieldable engagement with a sash in the guide with the outer edge of the spring in outwardly converging line contact with the sash.

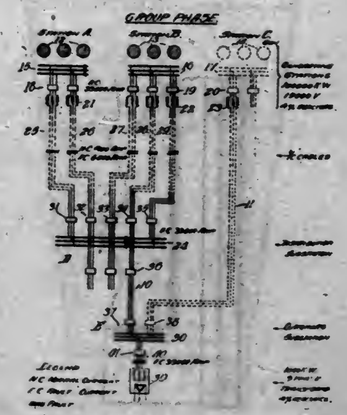
1,754,514. FURNACE WALL. JAMES C. HOBBS, Painesville, Ohio. Filed Dec. 5, 1925, Serial No. 73,813. Renewed Sept. 10, 1929. 21 Claims. (Cl. 110—1.)



1. In a furnace wall, an inner wall, an outer wall, means for maintaining the two walls in spaced relation, and yielding means for permitting relative movement of the two walls in a direction substantially at right angles to the planes of said walls, the parts being constructed and arranged to permit relative motion between the two walls in a direction parallel to the planes of said walls.

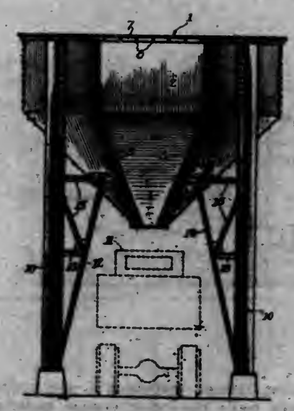
1,754,515. ELECTRIC POWER DISTRIBUTION. BERTRAND G. JAMIESON, Hollywood, Ill., assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed Aug. 11, 1924. Serial No. 731,268. 8 Claims. (Cl. 171—97.)

1. A three-phase alternating current transmission system comprising a central station and a consumers station, bus bars at the central station protected by phase isolation, a single-phase transformer at the consumers station for



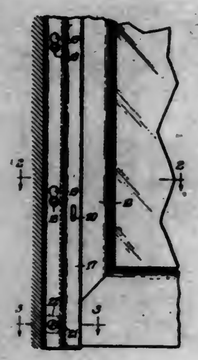
each phase and isolated phase conductors connecting the bus bars with the transformer, said conductors comprising single phase underground cables.

1,754,516. BIN. CHARLES S. JOHNSON, Champaign, Ill. Filed Apr. 27, 1928. Serial No. 273,210. 8 Claims. (Cl. 189—8.)



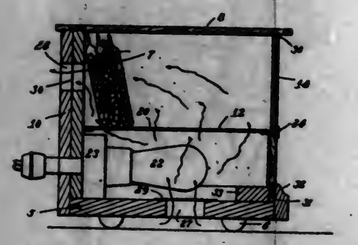
1. A loading bin adapted to straddle a drive-way so that vehicles may be moved thereunder to be loaded therefrom, said bin comprising a plurality of duplicate side sections arranged to form an octagonal bin, said sections having sloping bottom portions which converge inwardly to form a bottom discharge opening, a plurality of columns, one attached centrally to each alternate side section, and brace members attached one to each of said columns and extending inwardly toward the center of the bin and arranged to brace said converging bottom portions centrally thereof.

1,754,517. SASH GUIDE. WALTER E. KELLER, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1929. Serial No. 336,628. 8 Claims. (Cl. 189—75.)



1. In a sash guide, a fixed member, a removable member, projections carried by one of said members, heads on the projections for interlocking coaction with keyhole slots formed in the other of said members, and releasable means for maintaining said members in interlocking engagement.

1,754,518. VENDING CABINET. W. CARL KINNIE, Rockford, Ill., assignor to F. H. Ward Co., Rockford, Ill., a Firm composed of Hattie B. Kinnie. Filed Oct. 22, 1926. Serial No. 143,368. 2 Claims. (Cl. 312—114.)



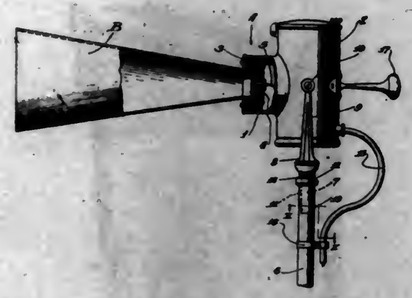
1. A vending cabinet comprising a case having the bottom and back walls thereof of opaque material such as wood, said bottom wall providing a marginal recess along the front and along the two ends of said case, and said back wall providing a rabbet extending the height of the case at the two ends thereof in alignment with the aforesaid recess, glass enclosure walls for the front and two sides of said case, the two side pieces engaging in said recess at the ends of said case and also in said rabbets while the front piece engages the ends of the side pieces and also is seated in the recess along the front of the case in said bottom wall, a single band piece fastened to the back wall and extending along the sides and across the front of the case to hold the glass enclosure pieces in place without necessitating fastening through the glass pieces, and a top for said case.

1,754,519. BEATING APPARATUS. CHARLES H. KIRCOAF, Philadelphia, Pa., assignor, by mesne assignments, to The Lang Company, Gloucester, N. J., a Corporation of New Jersey. Filed May 17, 1924. Serial No. 713,981. 7 Claims. (Cl. 92—24.)



1. A beating engine comprising the combination with a beating roll, of means for withdrawing material from the roll, a channel to which the withdraw material is delivered, and means controlling delivery from said channel into said engine.

1,754,520. METHOD OF AND APPARATUS FOR DIRECTIONAL RECORDING. ORLANDO R. MARSH, Wilmette, Ill., assignor to Marsh Laboratories, Inc., Chicago, Ill., a Corporation of Illinois. Filed Feb. 27, 1929. Serial No. 343,163. 7 Claims. (Cl. 181—26.)

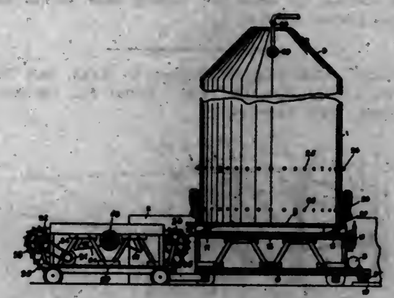


1. The method of recording sound with sound collecting devices from a given setting which consists in collecting said sound with certain of said devices arranged about said setting in such a manner as to have relatively low sensitivity to the source of sound, supplementing the sound collected by said devices with that of another sound collecting device arranged to be highly sensitive to the sounds from said source which are to dominate the resultant reproduction and combining the sounds collected by all of said devices into a reproducible form.

1,754,521. SOLUBLE ALBUMIN AND PROCESS OF PRODUCING IT. ELIZABETH M. MEYER, New York, N. Y. Filed Oct. 20, 1925. Serial No. 63,766. 9 Claims. (Cl. 99—11.)

1. The process of preparing water-soluble albumin which consists in agitating a thoroughly washed milk casein in a large amount of water containing a low percentage of suspended hydrate of lime, and separating the settleable material from the residual substantially clear solution.

1,754,522. STRAW WILTER. CHARLES R. OSGOOD, Monroe, Mich. Filed Jan. 16, 1929. Serial No. 332,828. 8 Claims. (Cl. 92—7.)



1. In a straw wilting tank, a removable plate for closing the bottom of the tank, a raking belt, and a movable frame for supporting the belt and connected to the plate.

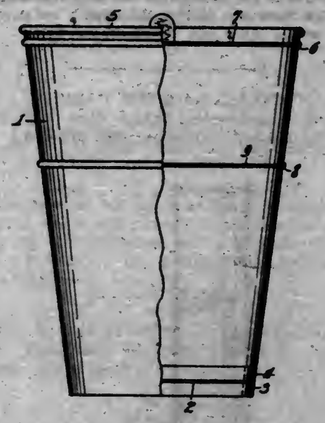
1,754,523. SELF-GRINDING VALVE. CHARLES S. POPE, Chicago, Ill., assignor to Central Valve Mfg. Co., Chicago, Ill., a Corporation of Delaware. Filed July 14, 1928. Serial No. 292,633. 1 Claim. (Cl. 251—38.)



In a self-grinding valve, a body, a bonnet secured to the top of the body, a threaded stem extending down through the bonnet into the body, a block mounted non-rotatably between stops in the bonnet in screw-threaded engagement with the stem, a compressed spring above the block, a packing between the stem and the bonnet, a packing gland on the stem below the block, and a nut screwed onto the bonnet against the gland for compressing the packing.

1,754,524. PAPER CONTAINER FOR FROZEN CONFECTIONS. GEORGE L. PORTER, Steubenville, Ohio. Filed Apr. 11, 1928. Serial No. 269,221. 1 Claim. (Cl. 206—47.)

A paper confection container composed of a body having a top and a permanently closed bottom, and having an integral annular channel opening into the body interior and disposed between said top and bottom, a disk adapted to be sprung into the channel to form a pair of compartments one to receive a frozen confection and the other a liquid dressing for the frozen confection, said disk having liquid tight engagement with the body so as to prevent the dressing from contact with the frozen confection and being removable so as to allow both the frozen confection and the dressing to be removed through the top of the body, and a removable closure for the top of the body.

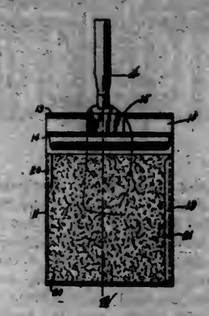


1,754,525. EXPANDING REAMER. EDWARD F. RAYMOND, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif. Filed Jan. 18, 1928. Serial No. 247,582. 7 Claims. (Cl. 255—76.)



1. In an expanding reamer or the like, a plurality of swinging cutter carriers mounted to swing on longitudinal axes which are spaced around a central axis of the body, each carrier having a cutter carrying end to one side of its swinging axis and having a tail end extending to the other side of its swinging axis, and each carrier having at its cutter-carrying end a surface engageable by the tail end of an adjacent carrier.

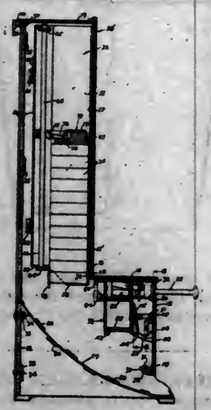
1,754,526. KNIFE SHEATH. ERNEST W. RITTLER, Quincy, Ill. Filed May 21, 1928. Serial No. 279,498. 2 Claims. (Cl. 224—2.)



2. A device of the character described comprising a metallic knife sheath adapted for frictional engagement

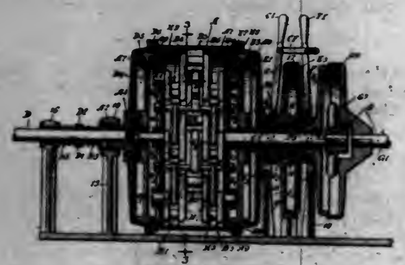
with a knife inserted therein, means to secure the sheath to the wearing apparel of the user, and means extending from one face of the sheath for contact with said apparel to normally force one end of the sheath outward beyond the plane of the other end.

1,754,527. VENDING-MACHINE CABINET. WILLIAM H. ROWE, Los Angeles, Calif. Filed Mar. 21, 1927. Serial No. 176,847. 5 Claims. (Cl. 312—35.)



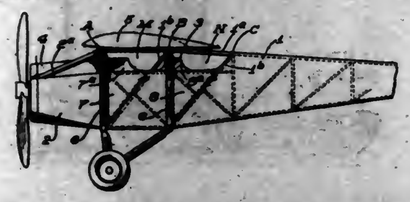
1. A vending machine cabinet comprising a pair of L-shaped side walls, a back member, a closure door and a front plate, a top member for said cabinet, said back member being secured on said side walls, means to hold said back member rigid when said top member is in a closed position, said top and said closure door being hingedly mounted, means for securing said closure door in a closed position, means on said closure door coacting with said top member for retaining said top member rigid when said closure door is in a closed position, said front plate being secured on said side walls.

1,754,528. POWER-TRANSMISSION APPARATUS. JOHN J. O. RULIANCICH, New Kensington, Pa. Filed Nov. 7, 1924. Serial No. 748,452. 15 Claims. (Cl. 74—34.)



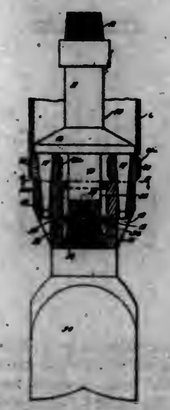
1. A transmission apparatus, comprising aligned driving and driven shafts, a crank on the driving shaft, an inner gear mounted on said crank, a drum coaxial with said shafts enclosing said inner gear and providing an internal gear surface co-operating therewith, a constraining member rotatably mounted on the driving shaft within said drum, stub shafts on said constraining member, cranks connecting said stub shafts with the inner gear and having the same throw as the first-mentioned crank, a clutch member fixed on the driven shaft located within the drum and adapted to engage the drum and the constraining member alternately, a second clutch member located within the drum and adapted to engage the drum and the constraining member alternately, means located outside the drum for operating said clutch members, and releasable means located outside the drum for locking said second clutch member against rotation.

1,754,529. AEROPLANE. TUBAL C. RYAN, San Diego, Calif. Filed Jan. 13, 1927. Serial No. 160,994. 4 Claims. (Cl. 244—14.)



2. In a monoplane, a wing, a fuselage, comprising a main portion including upper longérons extending forwardly to a line near the forward edge of said wing and contiguous with the lower surface thereof, cockpits positioned within said main portion below and rearwardly of said wing, and a nose portion extending forwardly of said wing, the upper surface of said nose portion being offset downwardly with respect to said wing allowing a clear view between said wing and said nose portion from said cockpits.

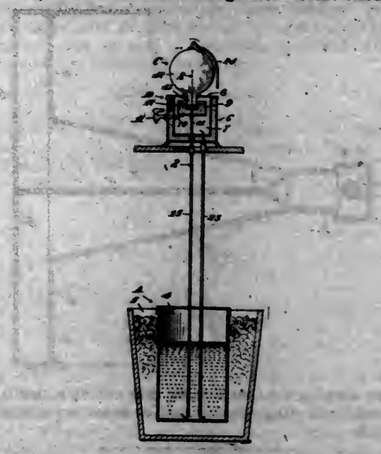
1,754,530. EXPANDING REAMER. JAMES J. SANTIAGO, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif. Filed Dec. 24, 1928. Serial No. 328,125. 13 Claims. (Cl. 255—75.)



1. In an expanding reamer, a central vertically extending body with an enlarged head above its lower end, a plurality of vertically extending mandrels dependingly supported from the body head and spaced around the body below the head, cutter elements around the mandrels, and a follower surrounding and movable vertically on the body below the cutter elements.

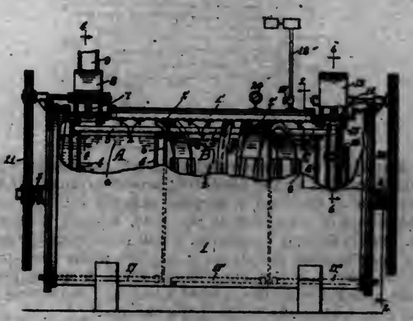
1,754,531. LIQUID DISPLAY AND DISPENSING APPARATUS. FORREST G. STANFORD, Los Angeles, and HERBERT L. GLAZE, South Pasadena, Calif.; said Glaze assignor of his entire right to George H. Hyland, Los Angeles, Calif. Filed Jan. 31, 1928. Serial No. 250,745. 9 Claims. (Cl. 235—21.)

1. In an apparatus of the character described, a main reservoir, an auxiliary reservoir from which liquid may be dispensed, a communicating conduit between said reservoirs, and means maintaining intermittent circulation



of liquid to and from said reservoirs back and forth through said communicating conduit, by intermittent suction induced in said auxiliary reservoir.

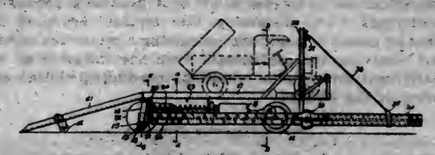
1,754,532. APPARATUS FOR STERILIZING CANNED GOODS. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Sept. 29, 1920. Serial No. 413,587. 38 Claims. (Cl. 126—272.)



1. An apparatus for sterilising canned goods comprising a fluid tight shell divided interiorly into a plurality of compartments successively communicating; means for supplying the canned goods to the first compartment; means for discharging them from the last compartment; means for advancing them through the compartments successively; a temperature-imparting medium in each compartment, the temperature of the medium in the first compartment being higher than that required for sterilisation, and the temperature of the medium in the succeeding compartment being that required for sterilisation; and means for preventing the interchange of heat through the communications of said compartments.

1,754,533. CONCRETE MIXER AND DISTRIBUTOR. LYNDON J. VAN KIRK, Milwaukee, Wis. Filed Jan. 21, 1929. Serial No. 333,776. 6 Claims. (Cl. 94—39.)

5. In a wheeled structure of the character described, an elevated vehicle body upon which a loaded truck may be positioned, a hopper opening downwardly below the body to receive the load when dumped by the truck, a rotating propeller in the said hopper for forwardly feeding the substances therein, a mixing chamber for receiving



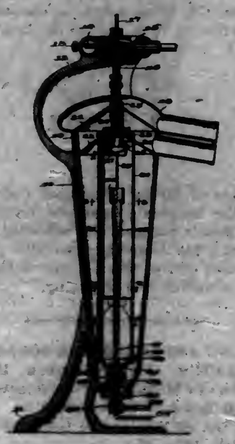
such substances, a mixing propeller in the said chamber for moving the mixed substances rearwardly, means for rotating the said propellers, and a laterally movable distributor swiveled to the chamber for distributing the mixed substances.

1,754,534. PLANT SUPPORT. GLEN VOUGHT, Unadilla, N. Y. Filed Mar. 16, 1928. Serial No. 262,191. 8 Claims. (Cl. 47—47.)



3. As a new article of manufacture, a cord carrier for plant supports comprising spaced stake receiving loops, a substantially Z-shaped bowed resilient arm connecting the loops, means adjacent one of the loops to secure one end of the cord, and oppositely extending means also adjacent said loop for detachable engagement with the cord, whereby the latter may be conveniently looped about a plant.

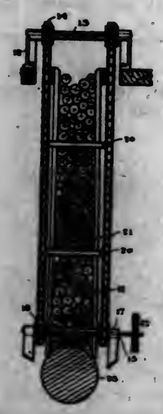
1,754,535. PURIFYING AND CONCENTRATING LATEX. WILLIAM B. WESCOTT, Boston, Mass., assignor to Rubber Latex Research Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 28, 1927. Serial No. 243,166. 14 Claims. (Cl. 18—50.)



4. A method of preparing concentrated and purified permanent dispersions of isolated rubber latex particles, which

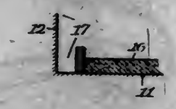
comprises removing from commercial latex all suspended matter greater than 6 mu in diameter, adding to the latex an agent effective to accelerate the separation tendencies of the particles without increasing coagulation tendencies, subjecting the so-treated latex to a gradually increasing centrifugal force, displacing the natural serum of the latex by means of a solution containing a protective colloid, and removing the concentrate from the influence of the centrifugal force under conditions precluding violent agitation of the effluent.

1,754,536. MAGAZINE GRINDER FOR WOOD PULP. AMBROSE H. WEITZ, Bronxville, N. Y. Filed Jan. 12, 1928. Serial No. 246,342. 7 Claims. (Cl. 83—75.)



1. In a pulp wood grinder, a vertically disposed magazine and means for conveying pulp wood in batches through the magazine and feeding same to the grindstone, said means comprising transverse members separating said batches and movable longitudinally of the magazine to apply uniform pressure to the batch located in advance of said members, suitably supported endless chains connected by and carrying said members and means for operating said chains.

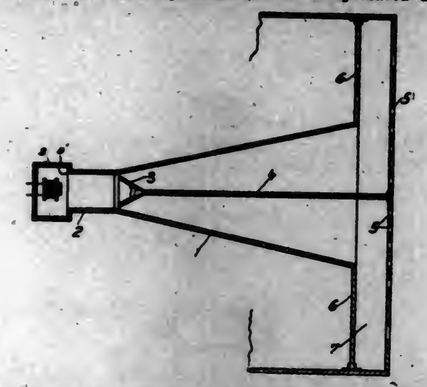
1,754,537. FLOOR AND THE PROCESS OF LAYING THE SAME. LAWRENCE S. WILBUR, Evanston, Ill., assignor to Johns-Manville Corporation, a Corporation of New York. Filed Nov. 3, 1927. Serial No. 230,764. 7 Claims. (Cl. 94—23.)



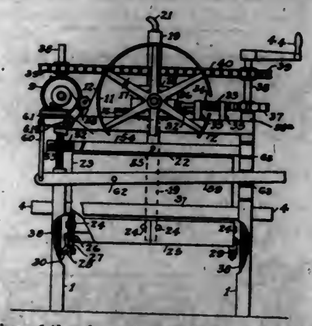
1. The process of laying bituminous concrete which includes installing temporary margins, laying the flooring up to the temporary margins and allowing it to cool and shrink, removing the temporary margins and laying the marginal portions of the flooring, and subjecting them to pressure during cooling and shrinking.

1,754,538. TONE AMPLIFIER FOR SOUND-REPRODUCING APPARATUS. FRITZ WILHELM, Berlin-Halensee, and KARL JOHANN MÜLLER, Berlin-Grunewald, Germany; said Wilhelm assignor to said Müller. Filed Feb. 18, 1926, Serial No. 89,148, and in Germany Feb. 23, 1925. 4 Claims. (Cl. 181—27.)

1. A sound reproducing apparatus, comprising a sound reproducing member, a sound collecting member located adjacent said sound reproducing member, a rectilinear rod carrying said collecting member, and an apertured diaphragm member connected with said rod at a point away from said collecting member and disposed transversely of said rod.

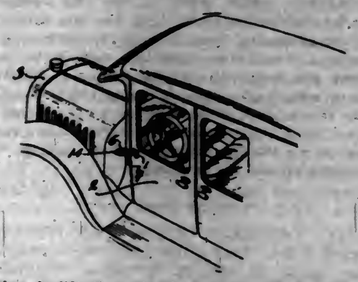


1,754,539. STONECUTTER. ALLEN W. WOLFE, Beechwood, W. Va. Filed Aug. 20, 1927. Serial No. 214,289. 1 Claim. (Cl. 125—20.)



A machine of the character set forth, comprising a head, cutters carried by the head, feed screws arranged at opposite sides of the head, a member engaged with the screws and pivotally connected to the head, a shaft with which the head is slidably associated, means connecting the screws for simultaneous movement, a ratchet wheel fixed to one of the screws, a cam fixed to the shaft, a spring pressed pawl engaged with the ratchet wheel and contacting with the cam, and means for rotating the shaft.

1,754,540. VISION ATTACHMENT. FREDERICK BEHRENDT, Cleveland, Ohio. Filed Feb. 21, 1927. Serial No. 169,959. 1 Claim. (Cl. 45—97.)



A vision facilitating attachment for vehicle comprising a reflector, plates having tabs clamping the reflector, said

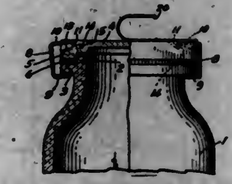
plates having upstanding eyes, a supporting rod extending through said eyes and having a shoulder engaging one of the eyes, means for clamping the plates together and to the rod against said shoulder for retaining the reflector on the rod and one of said plates being provided with a supplemental eye embracing said rod.

1,754,541. EGG-CASE FILLER. MARGARET M. BENOIT, Chicago, Ill. Filed Nov. 8, 1928. Serial No. 317,987. 2 Claims. (Cl. 217—33.)



1. A filler having cross walls one of which is edge-notched to interlock with the other wherein is a D-slot through which the first wall is extended, the edges defining the D-slot presenting a bowed portion the ends of which are shouldered and extended past a connecting straight portion to accommodate the notched wall when bowed without catching upon the notches in the edges thereof and to support the notched wall when straightened between the straight and shouldered portions which lie upon opposite sides of said wall.

1,754,542. JAR CLOSURE. WILLIAM E. BROWN, Los Angeles, Calif. Filed Jan. 23, 1928. Serial No. 248,657. 2 Claims. (Cl. 215—90.)



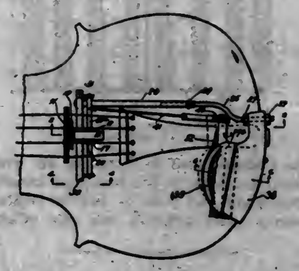
1. A vessel having an undercut shoulder, closure means for the vessel having an upper surface flat throughout its entire area except for circumferentially spaced radially extending depressions therein at its outer periphery, the side walls of said depressions being substantially perpendicular to the flat upper surface of the closure means, the bases of said depressions forming inwardly and upwardly sloping cam surfaces terminating in downwardly extending notches, and retaining clips adapted for engagement beneath said undercut shoulder and having spring arms terminating in depending lips, the said spring arms being adapted for reception in said depressions so that the depending lips ride along the cam surfaces and finally engage in said notches for fixing the clips in tensioned position tightly seating the closure means on the vessel.

1,754,543. KNIFE HANDLE. PRESTON D. CALLUM, Baltimore, Md. Filed Sept. 9, 1925. Serial No. 55,211. 2 Claims. (Cl. 30—9.)



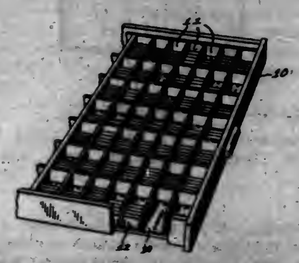
1. A knife comprising a blade portion and a handle portion, said handle being formed of two symmetrical sections, each of said sections being of hollow cast construction and being provided with inwardly extending tubular projections adapted to engage a portion of the knife blade, and means extending through said projections and knife blade to retain the latter in fixed relation to said blade, a guard portion formed on the forward portion of each section, said guards being formed to extend in all directions from the assembled handle a distance sufficient to prevent the user's hand slipping onto the blade.

1,754,544. COMBINED CHIN REST AND MUTING DEVICE. CLAIBORN CLARK, Wilmar, Calif. Filed June 22, 1926. Serial No. 117,695. 3 Claims. (Cl. 84—310.)



1. In combination with the bridge of a stringed musical instrument, a chin rest mounted upon and insulated from the body of the instrument and movable thereon substantially in a plane parallel to the body of the instrument, a damper connected to the chin rest and adapted by movement of the chin rest to move to and from the bridge substantially in a plane parallel to the body of the instrument.

1,754,545. INDICATOR CARD FOR TYPE FONTS. THOMAS CROSBY, New Britain, Conn. Filed Sept. 10, 1928. Serial No. 305,033. 1 Claim. (Cl. 276—44.)

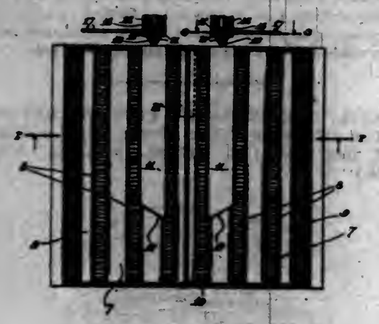


In a device of the character described, a set of indicating cards corresponding in size and shape to fit in the bottoms of the compartments of a font case, each of said cards having a number at one end to indicate the width of the matrix contained in its compartment, said number being visible from above, and centralized indicia adapted to be straddled by the feet of the matrix describing the character of the matrix.

1,754,546. FLUID-FUEL COMBUSTION. PAUL R. DELLING, Haddon Township, Camden County, N. J. Filed May 22, 1926. Serial No. 110,836. 3 Claims. (Cl. 158—30.)

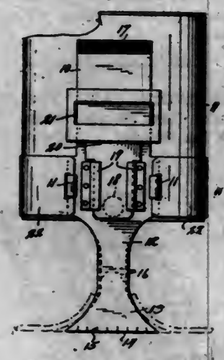
1. In a fluid fuel combustion system, the combination of a burning grate having its vents arranged in a ver-

tical plane, means forming a mixing and distributing chamber associated therewith, a mixing tube delivering downwardly to said chamber, a source of fuel supply under pressure, a fuel nozzle connected thereto and delivering



to said tube and arranged to introduce air with the fuel by the inductive action of the fuel, and means for causing an independent and positive flow of medium from a different source under pressure into said mixing tube.

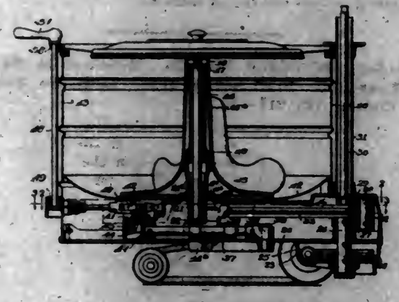
1,754,547. CEMENT SPREADER FOR LAYING LINOLEUM. LEWIS W. DUERNER, Fargo, N. Dak., assignor, by mesne assignments, of one-fifth to The Service Company, Fargo, N. Dak., a Corporation. Filed June 12, 1928. Serial No. 284,759. 7 Claims. (Cl. 91—67.4.)



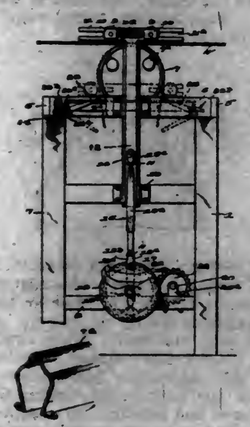
1. A linoleum cement spreader comprising a body portion formed to clamp around a cement container and having an opening adapted to communicate with the interior of the container and having a gate controlling the flow through said opening, the body being provided with a downwardly extended cement conducting portion onto the outer face of which the opening discharges and having a spreading edge at its lower end.

1,754,548. OPERATING GEARING FOR WASHING MACHINES AND THE LIKE. IRVING H. DUNN, Fairfield, Iowa, assignor to The Dexter Company, Fairfield, Iowa, a Corporation of Iowa. Filed June 18, 1928. Serial No. 286,273. 2 Claims. (Cl. 74—14.)

1. In a gearing for washing machines and the like, a drive shaft, an operating shaft, a pinion fixed to said operating shaft, a rack bar for engagement therewith, a pivoted rod on which said rack bar is slidably mounted, means connecting said rack bar and drive shaft for reciprocating said rack bar on said rod, a rock shaft at the free end of said rod, an arm on said rock shaft operatively engaged with said rod, and a plug capable of rotative movement in which said rock shaft has eccentric bearing.

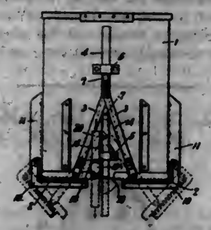


1,754,549. WOOD-BENDING MACHINE. CHARLES W. ELLIOTT, Seymour, Ind. Filed July 8, 1927. Serial No. 204,284. 10 Claims. (Cl. 144—262.)



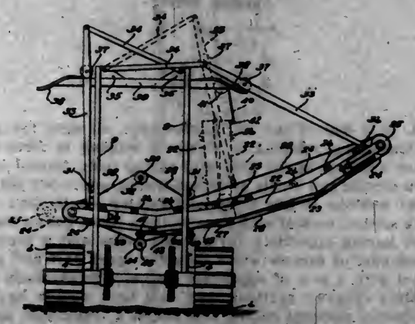
1. A machine of the class described comprising a frame, work bending means comprising a former carried by said frame, a movable element, one of said elements being of the shape to which it is desired to make the work conform, means for actuating said movable element against the work and said other element whereby the work will be caused to conform to the form of said shaped element, and swingably supported work holding members having work engaging portions extended toward said former and lying in the path of movement of the sides of the work, means for yieldably supporting said work holding members with their ends disposed toward said former, and the sides of the work moving under the influence of said movable element pushing the ends of said work holding members aside whereby said yielding means may actuate the same to engage the outer surfaces of the work to hold it in close contact with the former at the completion of the bending operation.

1,754,550. BATCH BOX. EUGENE P. FORRESTEL, Buffalo, N. Y. Filed Apr. 4, 1929. Serial No. 352,528. 8 Claims. (Cl. 294—71.)



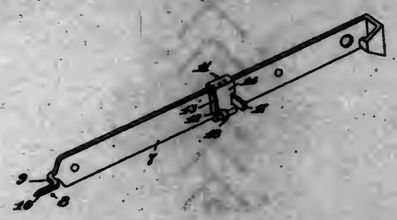
1. A batchbox having drop bottom doors, a water compartment in said batchbox, means connected to the doors for opening and closing the same, and means connected with said first-mentioned means for allowing the escape of water from said compartment when the first said mentioned means are operated.

1,754,551. EXCAVATOR. GEORGE H. GREIMAN, Garner, Iowa. Filed Feb. 11, 1928. Serial No. 253,691. 9 Claims. (Cl. 198—113.)



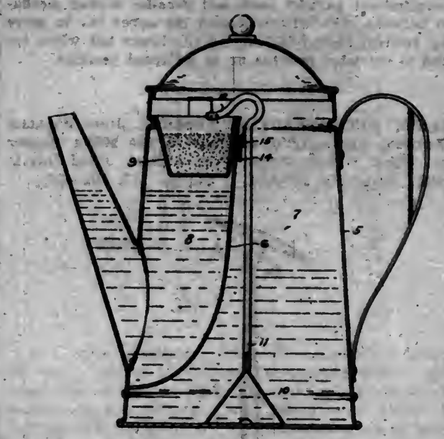
1. In an excavator, the combination with a frame, of a transverse conveyor, and compensating connections suspending the conveyor at each end from the frame for swinging movement on the line of a curve transversely of the frame and permitting the conveyor to be projected on either side of the frame and to cause the same to raise on the side of the frame on which it is being projected and in which the connection on the raising end of the conveyor automatically and progressively lengthens during the outward movement of the conveyor to progressively flatten the curve on which the conveyor is being moved.

1,754,552. CAN OPENER. JOHN H. GRUEN, Pasadena, Calif., assignor to Lewis B. Eyer, Los Angeles, Calif. Filed Aug. 31, 1927. Serial No. 216,561. 1 Claim. (Cl. 30—8.)



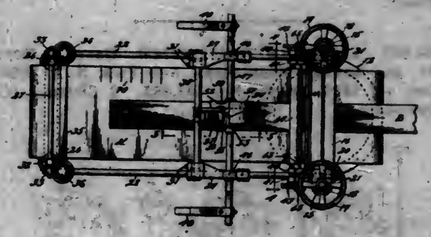
In a can opener, a handle, means on one end of said handle for effecting pivotal connection with the can top, a sleeve slidable longitudinally of said handle, and a blade projecting from said sleeve, said blade extending diagonally with relation to said handle with its cutting edge extending away from the end of the handle carrying the can top engaging means, said cutting edge tending to cause the cutter to move tangentially, and a guide projecting in advance of the cutting edge of said blade and adapted to engage the inner side of the peripheral flange of the can top thereby opposing the tendency of said cutter to move tangentially.

1,754,553. COFFEE PERCOLATOR. ROBERT WILLIAM HAGEL, New Orleans, La. Filed Mar. 8, 1929. Serial No. 345,469. 2 Claims. (Cl. 53—8.)



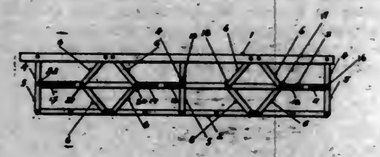
1. A device of the character described, comprising a clear water compartment and a made coffee compartment, a cup for the reception of ground coffee, above the made coffee compartment, and a water circulating element comprising a hood, and a tube leading therefrom provided with a perforated return bend disposed above said cup, the terminal end of said tube lying within the clear water compartment.

1,754,554. BELT PLANE. WILLIAM HAGSTROM, Lindsborg, Kans. Filed Oct. 25, 1926. Serial No. 143,885. 14 Claims. (Cl. 69—15.)



1. In a device of the class described, a clamp arranged to hold a belt at a desired position on a board, a tool for operating on the belt so held, a carriage upon which the tool is supported, handles by which the carriage is manually reciprocated, and means cooperating with the handles by which the operator may use said handles to control the cutting action of the tool as the carriage is reciprocated.

1,754,555. LUGGAGE OR STEP CARRIER TO BE ATTACHED TO AUTOMOBILES OR OTHER VEHICLES. JAY B. HALL, Portland, Oreg., assignor to Wilbur E. Hall, Saskatoon, Saskatchewan, Canada. Filed July 17, 1922. Serial No. 575,632. 17 Claims. (Cl. 224—29.)



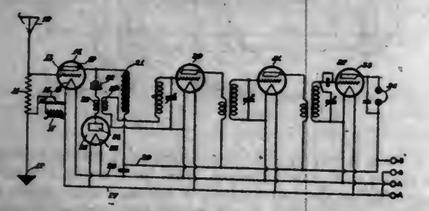
12. A collapsible luggage carrier adapted for attachment to the running board of a vehicle comprising a plurality of longitudinal parallel bars, and parallel motion mechanism between said bars to compel the upper bar to move along vertical lines relatively to the lower bar when operated to extended position or to collapsed position.

1,754,556. PLUG-INSERTING NEEDLE. JOHN WILLIAM HODGSON, Akron, Ohio, assignor to The Miller Rubber Co., Akron, Ohio, a Corporation of Ohio. Filed July 2, 1928. Serial No. 289,986. 1 Claim. (Cl. 152—27.)



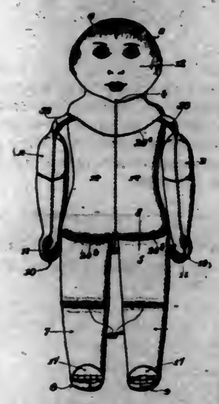
Means for repairing a tire puncture comprising a needle having at one end an open helix, a tubular sheath removably inclosing said helix, and means for limiting the movement of the sheath on the needle in the direction of the helix.

1,754,557. STRAY-LIMITING DEVICE. HAZEN L. HOYT, Jr., and BOWDEN WASHINGTON, New York, N. Y. Filed Oct. 16, 1926. Serial No. 141,982. 2 Claims. (Cl. 250—20.)



1. In a stray limiting circuit for radio reception, a three electrode vacuum tube, means for operating the tube near the upper bend of the grid-voltage, plate-current characteristic curve, an aperiodic input circuit for said tube, an output circuit for said tube containing a condenser, a rectifier and the primary of a radio frequency transformer connected in series, a periodic amplifying system connected to the secondary of said transformer, and means including a choke coil for supplying unidirectional voltage to the anode of said vacuum tube.

1,754,558. DOLL. MINNIE M. IVEY, Valdosta, Ga. Filed Nov. 4, 1927. Serial No. 231,108. 4 Claims. (Cl. 46—40.)



4. In a doll of the soft stuffed type, an open top and bottom casing adapted to receive a stuffing to form the trunk and legs of the doll, said casing being formed of a back section and a pair of corresponding, oppositely slitted front sections of less width and greater length than the back section, each of said front sections formed of an upper part having oppositely curved side edges and a tapered lower part of greater width than the upper part and provided with a pair of oppositely disposed, transversely extending cutaway portions, and said back section having oppositely disposed curved side edges, a lengthwise opening intermediate its ends having its edges connected together, a dart at its upper end having its edges connected together and a cutout portion at its bottom formed with convex edges connected together, the side edges of said back section being connected to the outer side edges of said upper parts, the inner side edges of said upper parts being connected together, and the side edges of each lower part being connected together.

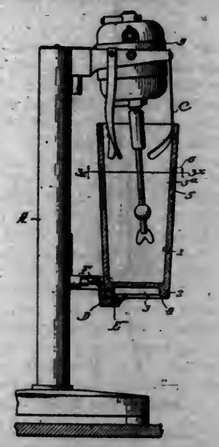
1,754,559. WINDOW VENTILATOR. CLAUDE R. JOHNSON, Guymon, Okla., assignor to The Claudeson Laboratory Inc., Wilmington, Del. Filed Sept. 30, 1927. Serial No. 228,075. 1 Claim. (Cl. 98—99.)



In a window ventilator of the character described, a pair of U-shaped leg members, the leg portions of one

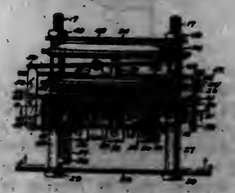
member being hollow and adapted to receive the leg portions of the complementary member in telescopic relation, a plurality of detachable pivotal shutter units arranged horizontally within said frame, said shutter units each consisting of a pair of slidable sections, said sections being substantially V-shaped in cross section and each having one of its ends pivotally connected to one end of the frame, said sections being provided with its edge portion bent inwardly in spaced relation to itself, and the other section being slidably engaged at its free end portion within the inwardly bent edge portion of the complementary section, whereby the frame shutter unit may be extended.

1,754,560. COMBINED MIXING AND SERVING GLASS FOR DRINK MIXERS. JULIUS H. KARLSON, Chicago, Ill. Filed Feb. 25, 1927. Serial No. 170,762. 2 Claims. (Cl. 259—108.)



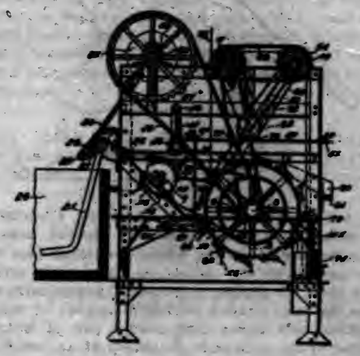
1. In combination, a drink mixer, and a container; said drink mixer comprising an electrically actuated agitator, means for receiving and holding the upper portion of the container when assembled with the agitator, a step receiving the lower end of and supporting the container in such assembly with the agitator, a stud interlocking the container with the step, and a switch controlling the supply of current to the agitator, in position to be engaged by the container when so interlocked; and said container being constructed with a hollow bottom with an internally beveled defining wall through which it engages with said stud; said container and all of its structural features being made of glass.

1,754,561. CIRCUIT CONTROLLER. ARTHUR J. KERCHER, Berkeley, Calif., assignor to Wesix National Company, San Francisco, Calif., a Corporation of Delaware. Filed Sept. 29, 1923. Serial No. 665,704. 6 Claims. (Cl. 200—122.)



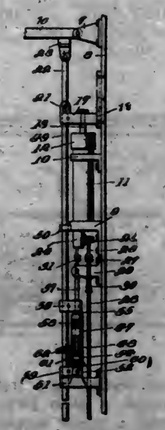
3. In a circuit controller, a stationary contact, a pivoted lever, a cooperating movable contact supported on said lever, a link pivoted to one end of the lever, a pivoted rod adapted at one of its ends to move the link and thereby rotate the lever to closed position, a latch to maintain the lever in this position, said pivoted rod adapted at its other end to engage the latch and thereby release the lever, a pair of opposed thermal responsive devices for moving the pivoted rod in opposite directions, and electrical heating means for each of said devices.

1,754,562. DEHAIRING MACHINE. JOHN W. KOHLHEPP, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 8, 1927. Serial No. 231,864. 17 Claims. (Cl. 17—18.)



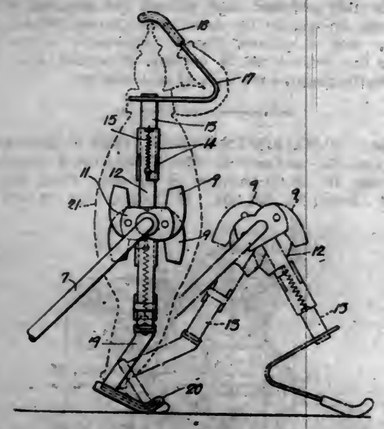
1. A carcass dehairing machine comprising a plurality of rotary beater mechanisms embodying flexible beater arms and of varying diameters arranged to rotate about centers so disposed that said beater arms follow non-intersecting paths and so that horizontal lines tangent to said paths at their highest points are approximately coincident.

1,754,563. DOOR-OPERATING MECHANISM. PHILIP LANG, Cedar Falls, Iowa, assignor to Wagner Manufacturing Company, Cedar Falls, Iowa. Filed Feb. 10, 1925. Serial No. 8,287. 12 Claims. (Cl. 303—6.1.)



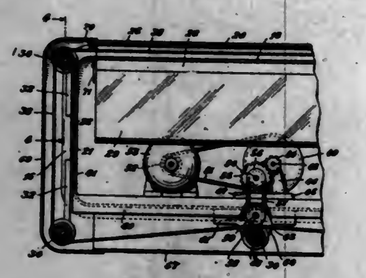
1. The combination with a movable member, of a reciprocating dash pot for retarding the movement of the said member in one direction, and a stationary dash pot for retarding the movement of the said member in the opposite direction.

1,754,564. TOY. WILLIAM M. LISTER, Kenilworth, N. J. Filed Jan. 29, 1929. Serial No. 335,887. 6 Claims. (Cl. 46—40.)



2. In a toy of the character described, a surface engaging member, a figure supporting element associated with the member above the surface engaging face of the member and forwardly thereof, a figure unit rotatably mounted upon the member and including automatic means to cause its own rotation during movement of said motive member, said means comprising a pair of units composing the figure, each unit consisting of an inner member rotatable upon the supporting element, and an outer member slidably associated with the inner member, one of said outer members simulating the upper portion of the figure body and the other the lower portion of the figure body, means normally urging these members in an outward direction so that the ends thereof will be normally below the surface of the motive member when in a downturned position, and means between the inner end of each slidable member and the pivoted end of the opposite unit inner member to cause the upward swinging of that unit when the sliding member of the opposite unit is forced upwardly by pressure against the supporting surface.

1,754,565. DAYLIGHT SIGN. EDWARD MCCOLLUM, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,619. 12 Claims. (Cl. 40—82.)



1. A daylight sign, comprising a front and rear frame held in spaced relation, a glass plate supported across the top of the frames, a mirror supported at an inclination across the lower portion of the front frame and the upper portion of the rear frame, rollers supported across the corners of the front and rear frames, a flexible translucent continuous sign engaged over the rollers, and end casings extending over the ends of the frames for closing the ends of the device.

1,754,566. WELDING. WILBER B. MILLER, Flushing, N. Y., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Jan. 27, 1926. Serial No. 84,241. 1 Claim. (Cl. 219—10.)

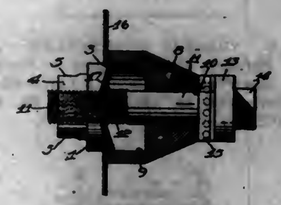
The process of welding ferrous metals which comprises fusing the metal and depositing the same under a molten slag containing manganese silicate, and introducing into said fused slag an unoxidized element of said silicate at such a rate that the deposited metal is effectually degasified and the fluidity of the slag is not destroyed.

1,754,567. FISHING GEAR. GWENDOLAN NEWELL, San Francisco, Calif. Filed Sept. 26, 1927. Serial No. 222,067. 2 Claims. (Cl. 43—42.)



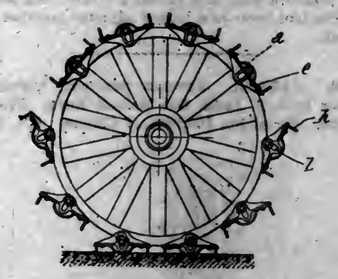
1. In a fishing gear of the character described a leader for a fish hook having a sinker slidable thereon, a spacing tube extending from the sinker toward the hook in encircling relation to the leader, a stop limiting the sliding movement of the tube relative to the hook and a tail of attractive material extending from the sinker in encircling relation to the tube but clearing the hook.

1,754,568. DRAW PUNCH. JOHN CHRIS NISCHAN, Evanston, Ill. Filed Sept. 12, 1927. Serial No. 219,064. 5 Claims. (Cl. 164—101.)



1. A device of the type described comprising a punch, a die arranged to receive said punch, a drawbar rotatably carried by said die and having a threaded end, said punch having a threaded opening arranged to receive the threaded end of said drawbar, means carried by said drawbar whereby said drawbar may be rotated for moving said punch within said die, and means disposed between said drawbar and said die for aiding in the rotation of said drawbar.

1,754,569. TRACTION DEVICE FOR WHEELS. CARLO PASSEGA, Paris, France. Filed Aug. 21, 1925, Serial No. 51,659, and in Belgium Dec. 2, 1924. 5 Claims. (Cl. 305—13.)



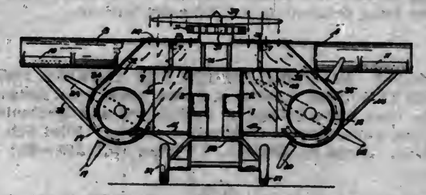
2. A traction device for application to the tread surface of the metallic rim of a vehicle wheel, comprising a pair of flanges, members longer than the width of the wheel rim connecting said flanges adjacent their ends, each of said flanges having between its ends a part extending substantially at a right angle to said flange and directed toward the corresponding part of the opposite flange, each of the latter parts of said flanges having a tooth shaped cavity in its inner face, and each of said flanges having an elongated slot substantially in alignment with the tooth shaped cavity in its angular part and of which the longer dimensions are in the form of cycloidal curves, and a suspension block having on its rear face means for rigidly securing it to the tread surface of a wheel rim, and having its front face adjacent its ends shaped substantially correspondingly to the tooth shaped cavities in the angular parts of said flanges and adapted to mesh with said tooth shaped cavities, said block further having a pin extending from each of its ends into the slot of one of said flanges.

1,754,570. FLASH LIGHT. JOHN P. PICKETT, Camden, S. C. Filed Feb. 19, 1929. Serial No. 341,253. 2 Claims. (Cl. 240—59.)



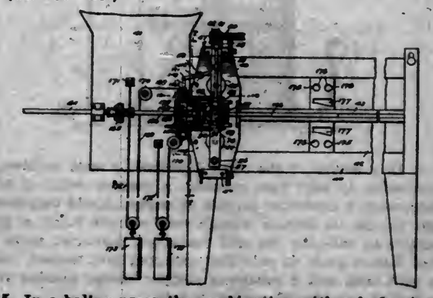
1. A portable flashlight of the character described comprising a finger ring having an integral socket member formed on one side thereof and projecting forwardly therefrom and having an internally threaded end portion, a light bulb detachably mounted in the threaded end portion of the socket member and a manually operable spring controlled electric contact member disposed for sliding movement through the opposite end of the socket member for engagement with the contact of the light bulb for illuminating the same.

1,754,571. AEROPLANE. HENRY PODOLSKY, San Francisco, Calif. Filed July 29, 1929. Serial No. 381,868. 5 Claims. (Cl. 244—15.)



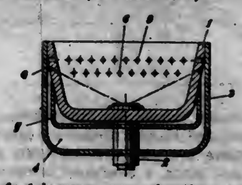
4. An aeroplane comprising a hollow wing structure, a central opening in the top wall of said wing, a propeller mounted on said wing above said opening, openings in the bottom wall of said wing each side of, and spaced from said central opening, deflectors adapted to deflect air from said propeller down through said wing, and up under the bottom surface of the wing, and means to drive said propeller.

1,754,572. BALE TIER. HUGH RICHARDSON, Nelson, Mo. Filed Jan. 18, 1928. Serial No. 247,652. 20 Claims. (Cl. 100—20.)



5. In a baling press the combination with a body structure and a dividing block movable therein by material being compressed, of a frame structure, means for automatically coupling said structure to the block for movement therewith, needle mechanism carried by one side portion of the frame structure, twisting mechanism carried by the opposite side portion of the frame structure, a continuously operating driving element, means released by the dividing block while coupled to the frame structure for automatically connecting the needle mechanism to the driving element thereby to rotate the needle mechanism to bring it into operative connection with the piston mechanism and to withdraw it therefrom while the frame structure is coupled to the dividing block, means controlled by the needle mechanism for uncoupling the frame structure from the dividing block after the completion of the tying operation, and means for automatically returning the frame structure to its initial position when uncoupled from the block.

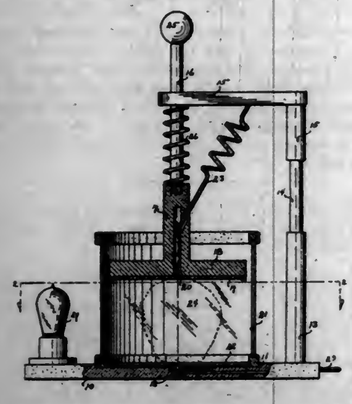
1,754,573. LIQUID-FUEL BURNER. WALTER RUEGSEGGER, Lugano, Switzerland, assignor to A. G. Prior Patentverwertungs-Gesellschaft, Glaris, Switzerland. Filed July 3, 1928, Serial No. 290,156, and in Germany July 4, 1927. 1 Claim. (Cl. 158—91.)



In a liquid fuel burner, a combustion cup in communication with a fuel supply, and two ranges of air inlet

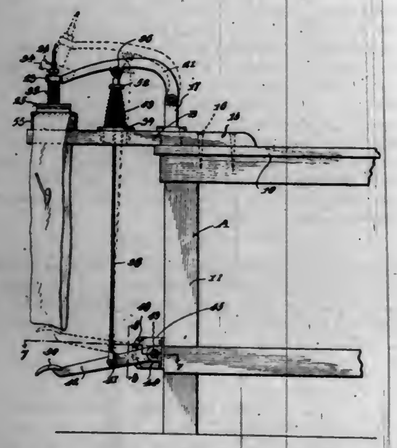
apertures in the side walls of the combustion cup near the open upper end thereof, the upper range of apertures being horizontally disposed and the lower range of apertures being downwardly and inwardly inclined.

1,754,574. ELECTRIC DEVICE FOR COOKING FOOD OR THE LIKE. LENORE E. SATER, Ames, Iowa, assignor to Iowa State College of Agricultural and Mechanical Arts, Ames, Iowa, a Corporation of Iowa. Filed Feb. 1, 1929. Serial No. 336,903. 8 Claims. (Cl. 219—40.)



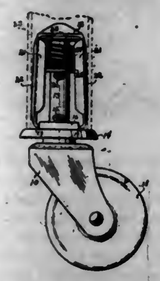
1. In a device of the class described, a base member, a depression in said base member, a contact point in said depression, a container capable of engaging said depression and having its bottom engage said contact point, a disk capable of entering the said container, a contact point in said disk, a plate on said disk engaging said contact point in said disk, and a source of electric energy making contact with one of said contact points.

1,754,575. VULCANIZER. ARTHUR W. SCHARFF, La Crosse, Wis. Filed Sept. 10, 1928. Serial No. 305,049. 2 Claims. (Cl. 18—18.)



1. In a device for vulcanizing inner tubes, a work bench, a base block secured to and projecting laterally from the bench, an arcuate pressure arm rockably secured at its inner end to said block, a combined pressure and heating head resiliently carried by the outer end of said pressure arm, means for swinging the arm on the block and the head toward and away from the tube to be vulcanized including a pivoted foot lever secured to said bench, a connecting rod operatively connecting said pressure arm to the pedal, resilient means for normally holding the pedal and the pressure arm in a raised position, and means for holding the foot lever in a locked adjusted position against movement.

1,754,576. CASTER. EDWARD SCHULTZ, Chicago, Ill., assignor to J. B. Ladd, Des Moines, Iowa. Filed Sept. 14, 1928. Serial No. 305,980. 7 Claims. (Cl. 16—44.)

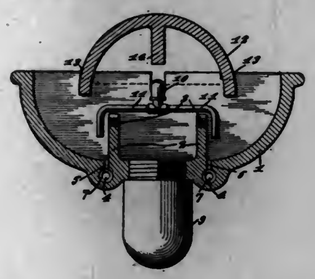


1. In a device of the class described, a surface engaging member having a pintle, a member rotatably and slidably mounted on said pintle, an engaging member secured to said loosely mounted member designed to frictionally engage the hollow portion of a load object, a stop on said pintle for limiting the movement of said rotatably and slidably mounted member on said pintle to one direction, and a coil spring functionally engaging said engaging member and said pintle for yieldingly holding said pintle in such a position that said stop will be in contact with said rotatably and slidably mounted member.

1,754,577. ROOT-CANAL FILLER. JULIUS WALDO SMITH, Madison, Minn. Filed Aug. 17, 1928. Serial No. 300,389. 2 Claims. (Cl. 106—6.)

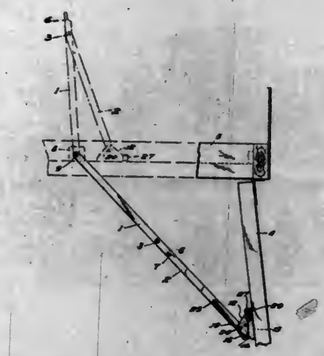
1. A dental cement comprising oil of cloves and the sodium salt of tetra-iodo-phenolphthalein.

1,754,578. OIL BURNER. EARL D. SOANBERGER, Harrisburg, Pa. Filed Apr. 17, 1929. Serial No. 355,892. 3 Claims. (Cl. 158—92.)



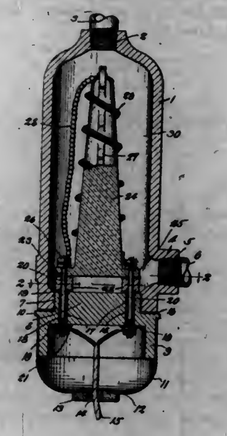
1. An oil burner of the class described comprising a bowl, a pair of upright partitions therein spaced from the center thereof, said bowl having passages in its bottom and a slot connecting each passage with the interior of the bowl, each slot being adjacent the outer side of a partition, a pilot burner for igniting the oil flowing from each slot, means for introducing air into the space between the two partitions and a cover member seated on the bowl above the parts thereof carrying the partitions and leaving spaces at the sides of the bowl.

1,754,579. DOOR STAY. CHARLES F. SPONSLER, Philadelphia, Pa. Filed July 11, 1929. Serial No. 377,574. 8 Claims. (Cl. 292—263.)



1. A door stay device comprising a plurality of pivotally connected arms, means forming a fixed pivot for one end of one of said arms, a bracket to which the other of said arms is pivotally connected, a lever rotatably mounted on said bracket, means for actuating said lever, means for limiting the extent of rotation of said lever, and a spring interposed between said lever and the arm pivotally connected to said bracket.

1,754,580. ELECTRIC WATER HEATER. MILES E. STALEY, Tacoma, Wash., assignor to Red Spot Electric Company, Tacoma, Wash., a Corporation of Washington. Filed Mar. 11, 1927. Serial No. 174,542. 8 Claims. (Cl. 219—39.)



1. An electric water heater including a housing providing a water compartment having an inlet and an outlet, a tapered insulating core supported within and spaced from the housing, a coiled wire heating element extending spirally around the core, terminals at the base of the core, one end of the heating element being connected to one of the terminals, an uncoiled wire extending from the other end of the heating element to the other terminal, and flexible insulating means on the uncoiled wire.

1,754,581. APRON. PETER SIEBEL, New York, N. Y. Filed May 1, 1929. Serial No. 359,682. 2 Claims. (Cl. 2—48.)



1. An apron comprising a body portion, corners folded to bring the upper edges of the folded portions of the body into juxtaposition, a fold laterally of the body adjacent the lower edges of said folded portion, and means on said lateral fold for retaining the folded corners in position.

1,754,582. PEN AND PENCIL CLIP. RICHARD V. SPENCER, Los Angeles, Calif. Filed Aug. 23, 1929. Serial No. 387,944. 1 Claim. (Cl. 24—11.)

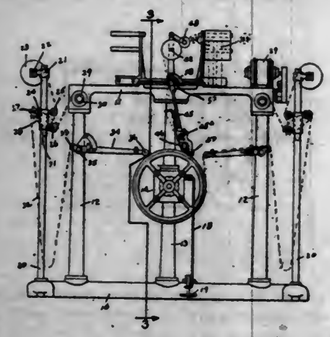


A holding device for writing implements comprising a finger which has one end fastened to the implement, said finger, from its said fastened end being rounded and continued in a straight plane which is parallel with that of the implement, a flat spring fixedly secured to the inner face of the curved portion of the finger and projecting a distance beyond the finger and having its outer end curved outwardly, a short bolt screwed through the finger having an inner enlarged end to contact with the outer face of the spring and having its outer end provided with a head which is peripherally knurled.

1,754,583. TIRE-BUILDING MACHINE. WILLIAM B. SWERN, Kokomo, Ind., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 23, 1926. Serial No. 130,883. 9 Claims. (Cl. 154—10.)

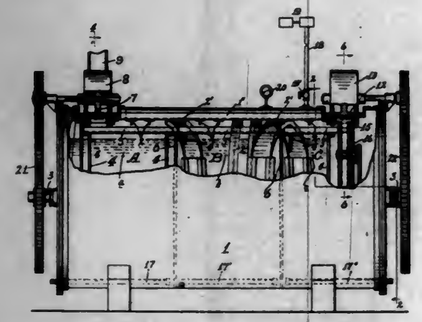
1. In a machine of the character described, the combination of a drum rotatably mounted, a fabric roll support,

a liner support, power means for rotating the liner support for separating the liner from the fabric, and guiding and



spacing means interposed between the drum and said supports for looping the fabric after liner separation for insuring substantially uniform stress therein.

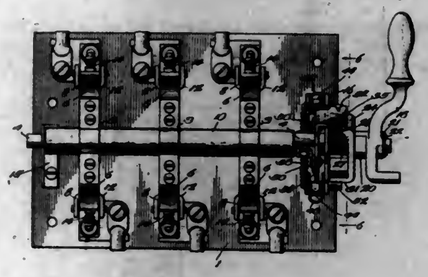
1,754,584. METHOD OF STERILIZING CANNED GOODS. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Sept. 29. 1920. Serial No. 413,588. 11 Claims. (Cl. 99—8.)



5. The method of sterilizing canned goods which comprises introducing them initially to a region in which the temperature is higher than that required for sterilization and keeping them therein until they have been raised to said sterilizing temperature; then at once transferring them into a second region communicating with the first region and in which the temperature is maintained at that required for sterilization and keeping them therein until sterilized; supplying the heat to both regions through a heated liquid medium; and establishing fluid pressure in both regions on said liquid medium, whereby interchange of heat between the regions is prevented.

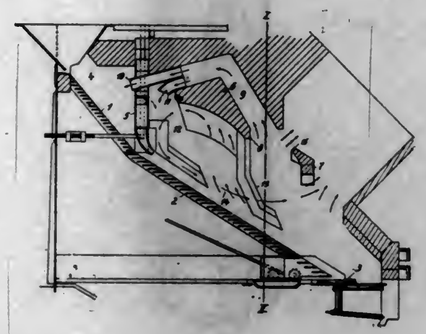
6. The method of sterilizing canned goods consisting in introducing the goods initially to a region in which the temperature is higher than that required for sterilization and keeping them therein until they have been raised to said sterilizing temperature; then at once transferring them into a second region communicating with the first region and in which the temperature is maintained at that required for sterilization and keeping them therein until sterilized; and then at once transferring them into a third region communicating with the second region and in which a cooling temperature is maintained. all of said regions being kept under pressure above atmospheric and said pressure utilized to prevent interchange of heat between the regions.

1,754,585. ELECTRIC SWITCH. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed June 4, 1924. Serial No. 717,677. 9 Claims. (Cl. 200—70.)



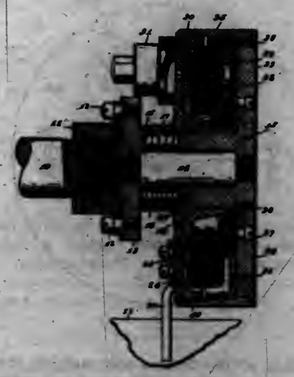
1. In a snap switch mechanism having a shaft, a rotary switch arm coaxial therewith, a rotary disc rigidly connected to the shaft for rotating it and having two shoulders facing in opposite directions, a single spring operative upon said disc in either of two directions and making one way engagement contact therewith. a rotary handle for tensioning said spring, two detents, each having a fixed pivot at one end and at the other end adapted to engage one of the shoulders on the disc for temporarily holding the latter, and two rotary cams arranged on the handle and having acting surfaces which are eccentric to the handle axis and adapted to engage the respective detents between their ends for lifting them from the shoulders release the disc and switch arm, said spring having a coil encircling said shaft and being supported by it.

1,754,586. COMBUSTION METHOD FOR FUELS. ERNST VÖLCKER, Bernburg, Germany. Filed Mar. 1, 1923, Serial No. 622,160. and in Germany Mar. 23, 1922. 5 Claims. (Cl. 110—52.)



1. In a furnace, the combination with a grate for supporting fuel to be burnt in the furnace and an outlet flue in the rear of the furnace for the exit of hot gases from the furnace, of a deflecting member interposed in the path of the hot gases flowing through said outlet and guiding means arranged in the furnace adapted to cooperate with said deflecting member for guiding a portion of said gases to the front of the furnace so as to enable said portion of the gases to be returned thereto by their kinetic energy.

1,754,587. MAGNETIC CHUCK. JARL M. WEYDELL, Indianapolis, Ind., assignor of one-half to Edward E. Stout. Filed June 24, 1927. Serial No. 201,151. 4 Claims. (Cl. 175—367.)



1. A magnetic chuck, comprising a rotatable member having two magnetically separate magnetic portions, each of said magnetic portions having poles spaced from the poles of the other portion, one of said magnetic portions having a hub and the other a rim providing an annular space between them, a stationary magnetic member located in said annular space and in close proximity to and magnetically between said hub and rim, and a stationary magnetizing coil in magnetising relation to said stationary magnetic member and to said magnetic portions.

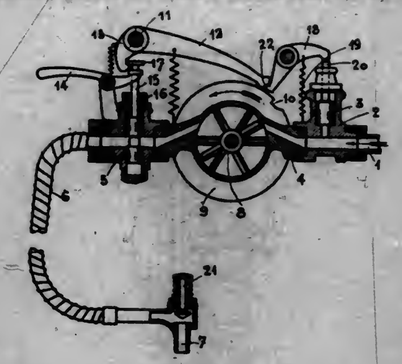
1,754,588. IDENTIFICATION PLATE. BRUCE R. WAIGHT, Windsor, Vt. Filed Jan. 17, 1927. Serial No. 161,518. 2 Claims. (Cl. 40—140.)



1. In a device of the class described, the combination with a plurality of dished character plates each having laterally extending rim flanges, of a common dished frame for the plates, said frame having an outwardly extending rim flange and having a plurality of aligned apertures into each of which one of said character plates may be interchangably projected with its flange in retaining engagement with the inner surface of the common frame, and with the back of said first mentioned flanges in engagement with a fixed support, and with the character supporting surface of the plates projected through the apertures from the rear thereof and means adapted to secure the frame to said support by its rim flange.

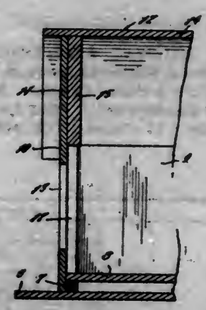
1,754,589. LIQUID-MEASURING DEVICE PROVIDED WITH A CONTINUOUS COUNTER. HERMANN WYDLER, Bern, Switzerland, assignor to the Firm Sauser S. A., Soleure, Switzerland. Filed Feb. 18, 1929, Serial No. 340,916, and in Switzerland Feb. 20, 1928. 4 Claims. (Cl. 221—101.)

1. In a liquid dispensing device and in combination a discharge conduit, a passage-counter inserted into this conduit and associated means whereby the counter can only be stopped at the zero position of a measuring unity, throttling means at the delivery end of said conduit



and means adapted to engage with said stopping means of the counter whenever said throttling means are made operative.

1,754,590. PORTABLE HOUSE. ELMER L. ALLEN, Queens Village, N. Y. Filed Jan. 12, 1929. Serial No. 331,987. 1 Claim. (Cl. 46—37.)

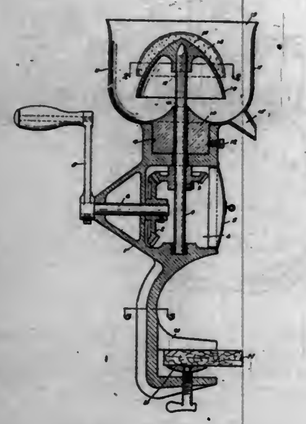


In a portable structure of the class described, a base, a frame fastened to said base at points spaced inwardly from the marginal edges of the base, a floor fastened to said frame having its marginal edges flush with the marginal faces of the frame, a wall structure embracing the frame and floor and resting down on the base, corner posts embodied in said wall structure, said corner posts having their upper edges terminating flush with the upper edges of the side walls and having their lower edges resting on the floor, and a removable roof on said wall structure, the end walls of the wall structure including upper end extensions functioning as gables, said roof being of gable form and including upwardly converging fibrous pieces fastened to an intermediate and a pair of outer transversely extending triangular wooden gable pieces, the outermost wooden gable pieces being arranged against the inner surfaces of the gable extension of said end walls and resting down upon the corner post and end walls.

1,754,591. CITRUS-FRUIT-JUICE EXTRACTOR. GUY B. BAKER, Red Bluff, Calif. Filed June 29, 1927. Serial No. 202,822. 2 Claims. (Cl. 146—3.)

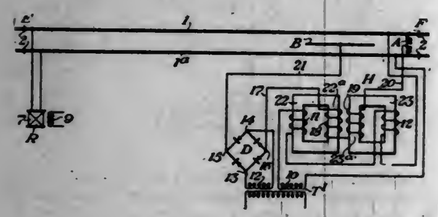
1. A citrus fruit juice extractor comprising a frame having two recesses therein, a shaft extending through both recesses and being rotatably carried by said frame,

a second shaft extending into the lower recess, a crank handle secured to the second shaft, gears secured to both shafts and meshing with each other, said gears being disposed in the lower recess, a cover for closing the lower



recess, a cup having a projection receivable in the upper recess and having an outlet drain disposed at its bottom, and a juice-extracting member mounted on said first shaft and being disposed within the cup, said member being nonperforate.

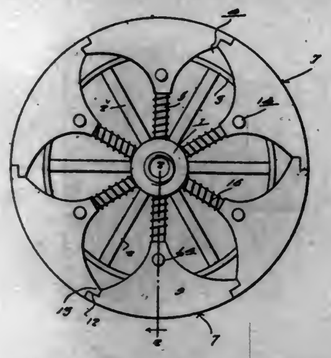
1,754,592. RAILWAY SIGNALING APPARATUS. CHARLES R. BEALL, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 11, 1928. Serial No. 245,890. 13 Claims. (Cl. 246—40.)



1. In a signal system involving a section of railway track having a source of track circuit voltage connected with the rails of the section, an auxiliary conductor in contact with the track ballast, and a transformer having its primary interposed between said source and one of the track rails, and the terminals of its secondary connected with said conductor and a track rail.

1,754,593. AUTOMOBILE WHEEL. NAT BENFORD, Cleveland, Ohio. Filed Sept. 15, 1928. Serial No. 306,231. 1 Claim. (Cl. 152—30.)

An automobile wheel including a hub having a series of spokes extending radially therefrom and a tire supporting rim mounted on the other ends of the spokes and a tire mounted on the rim a series of stems extending radially from the hub between the adjacent spokes and in longitudinal alignment therewith, the outer ends of the stems terminating inwardly of the rim and each being formed with a longitudinal slot, a series of tire and rim encircling shoes, each shoe including an arcuate shaped plate for circumferential disposition upon the tread portion of the tire, outwardly of each stem, inwardly extending flanges formed at the side edges of the plates terminating adjacent the opposite sides of the stems at the free end portions thereof, a bolt extending through



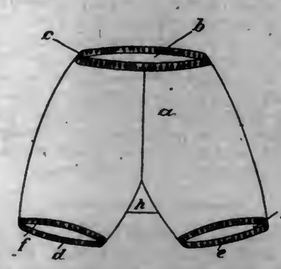
the inner ends of the flanges and slidable through the slot of the adjacent slotted stem, and an expansible coil spring encircling each slotted stem for disposition between the hub and the bolt for normally urging each shoe outwardly.

1,754,594. SERVING DISH. JOHN H. BENS, North Attleboro, Mass. Filed Aug. 10, 1929. Serial No. 385,008. 6 Claims. (Cl. 62—10.)



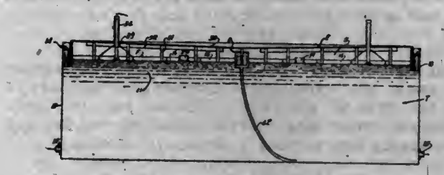
1. In a container, a sealed compartment comprising the outer wall of the container and containing a refrigerating medium consisting of a compressible and absorbent material moistened with water to be frozen.

1,754,595. LADY'S BREECHES. KURT JOSEF BERNSTEIN, Chemnitz, Germany, assignor to Marschel Frank Sachs Aktiengesellschaft in Chemnitz, Chemnitz, Germany. Filed Jan. 28, 1928, Serial No. 250,311, and in Germany Feb. 5, 1927. 1 Claim. (Cl. 2—224.)



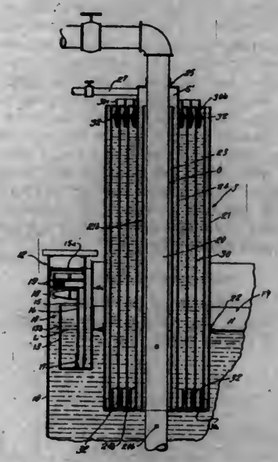
A nether garment of the kind set forth, comprising two parts formed as outer and inner breeches each including a waist band, crotch and leg portions, and stitched to one another at the waistband and at the edges or ends of the leg portions, so that the crotch portions can be readily drawn out.

1,754,596. TANK-ROOF STRUCTURE. CHARLES F. H. BOHNHARDT, Lynwood, Calif., assignor to Julian A. Campbell, Long Beach, Calif. Filed Dec. 5, 1928. Serial No. 324,040. 8 Claims. (Cl. 220—26.)



1. In a structure of the character described, a tank containing liquid, a floating roof adapted to float on the liquid, an expansion roof spaced above the floating roof, the space between said roofs being closed to the atmosphere and in communication with said liquid.

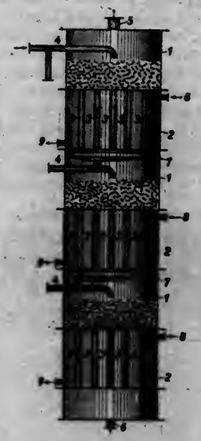
1,754,597. OIL-TANK EXPANSION JOINT. CHARLES F. H. BOHNHARDT, Lynwood, Calif., assignor to Julian A. Campbell, Long Beach, Calif. Filed Dec. 5, 1928. Serial No. 324,041. 8 Claims. (Cl. 220—26.)



1. In a structure of the character described, a fluid container having a top closure, a vertical conduit communicating with the interior of the container and extending through said closure, the closure being spaced from said conduit and vertically movable relative thereto, and a vertically expansible joint between the conduit and said closure, said joint preventing fluid escape from the container between the conduit and top closure during their relative vertical movement.

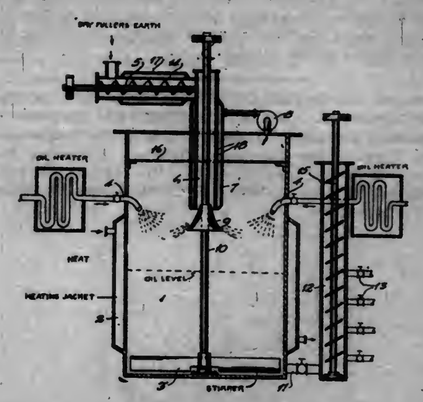
1,754,598. METHOD OF DEODORIZING FATS AND FATTY OILS. HERMANN BOLLMANN, Hamburg, Germany, assignor, by mesne assignments, to Mary Fulford Foster, Washington, D. C., trustee. Filed Feb. 27, 1925, Serial No. 12,186, and in Germany Sept. 3, 1924. 2 Claims. (Cl. 87—12.)

1. A method of deodorising fatty oils which comprises atomising the same by superheated steam into a compartment in which a pressure below atmospheric is maintained, allowing the oil to flow over heating surfaces to vaporise moisture, and collecting the said oil, and repeating said cycle of operations until the said oil is sufficiently



purified, and drawing off said oil, all while continuously maintaining a pressure below atmospheric in the treating vessel by drawing off the steam carrying vaporised impurities, from the top of said compartment.

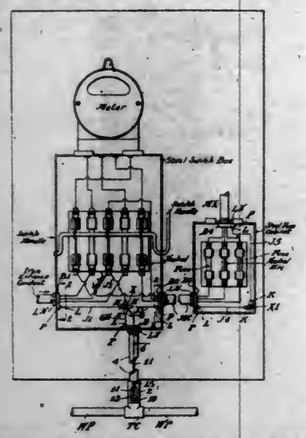
1,754,599. METHOD OF BLEACHING FATTY OILS, MINERAL OILS, AND THE LIKE. HERMANN BOLLMANN, Hamburg, Germany. Filed Dec. 16, 1925, Serial No. 75,743, and in the Netherlands Nov. 18, 1925. 5 Claims. (Cl. 87—12.)



1. A method of bleaching fatty oils, mineral oils and the like by means of fuller's earth, which consists in causing the fuller's earth and oil to come into intimate contact both in small quantities at a time both the oil and fuller's earth being in a finely subdivided state, whereby a minimum quantity of fuller's earth suffices for bleaching.

4. A process of removing coloring matters from oil which comprises spraying preheated oil and directing a current of finely divided preheated bleaching earth, against the spray of preheated oil produced in the said first step and allowing contact of the said oil and fuller's earth while in a heated state, until said earth has sufficiently removed the coloring matter from the oil.

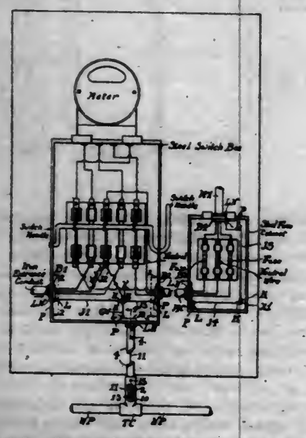
1,754,600. ELECTRICAL CONNECTING SYSTEM. STEPHEN W. BORDEN, Summit, N. J., assignor, by mesne assignments, to Crouse-Hinds Company. Filed Jan. 22, 1925, Serial No. 3,913. Renewed Feb. 24, 1930. 20 Claims. (Cl. 247—1.)



1. A bonding system for an electrical conduit and a metal box which includes a bonding fitting for the conduit, said fitting being formed with an annular portion for the exterior of the conduit and with a threaded screw-hole having therein a screw-threaded conductor positioned to press the conduit against the annular portion, combined with means forming direct electrical contact between the fitting and the box irrespective of the conduit threads.

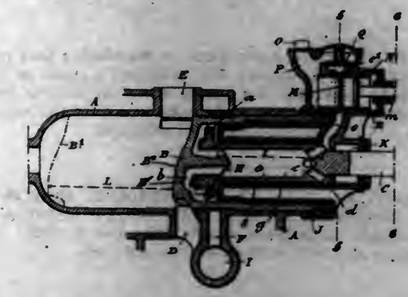
2. A bonding system for an electrical conduit and an electrical conductor both of which enter a conduit box, which includes a bonding fitting for the end of the conduit, said fitting being formed with an annular portion for the exterior of the conduit and a threaded screw-hole having therein a screw-threaded conductor positioned to press the conduit against the annular portion, combined with means forming direct electrical contact between the fitting and the conductor within the box.

1,754,601. ELECTRICAL CONNECTING DEVICE FOR ELECTRICAL CONNECTING SYSTEMS. STEPHEN W. BORDEN, Summit, N. J., assignor, by mesne assignments, to Crouse-Hinds Company. Original application filed Jan. 22, 1925, Serial No. 3,913. Divided and this application filed July 11, 1925. Serial No. 42,869. 2 Claims. (Cl. 247—1.)



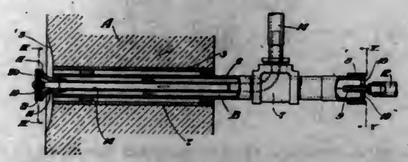
1. An article of manufacture, for the end of a threaded electric conduit which conduit extends through a wall of a box, comprising an annular member formed with a projecting portion provided with screw-threaded means securing the annular member against loosening, said projecting member being provided with screw-threaded means for attaching an electric conductor thereto, the axes of both said screw-threaded means being at a substantial angle to the wall of the box.

1,754,602. STEAM ENGINE PARTICULARLY APPLICABLE TO COMBINED INTERNAL-COMBUSTION AND STEAM ENGINES. EUGÈNE BRILLIÉ, Paris, France. Filed June 24, 1927, Serial No. 201,191, and in France July 2, 1926. 1 Claim. (Cl. 60—14.)



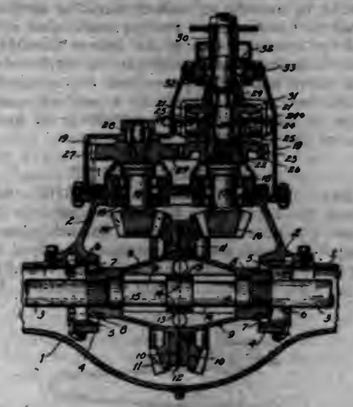
In a combined internal combustion and steam engine of the class described, a cylinder, a piston sliding in said cylinder, a piston rod having a hollow cylindrical portion secured to said piston and extending the length thereof, said piston rod having also a reduced portion, a sleeve mounted in the cylinder and surrounding the hollow piston rod, said sleeve having an internal diameter slightly exceeding the diameter of the hollow rod, a stuffing box surrounding the reduced portion of the rod, a steam inlet communicating with the space between said sleeve and said reduced portion, said hollow portion having an aperture adjacent said reduced portion and communicating with said space, and a steam outlet in said cylinder communicating with said hollow portion.

1,754,603. FURNACE GAS BURNER. CHARLES J. BROWN, Donora, Pa. Filed May 28, 1928. Serial No. 281,217. 1 Claim. (Cl. 158—7.)



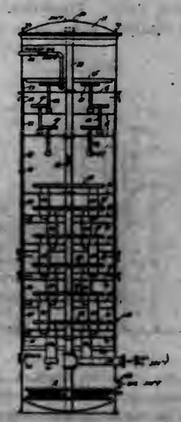
The combination with a furnace wall having a concave recess therein and an opening through said wall centrally of said recess and a sleeve mounted in said wall, of a burner mounted in said sleeve and spaced from the side walls thereof, said burner comprising a gas and air mixing tube open at each end, a gas supply tube projecting into the rear end of said tube and adapted to produce an aspirating effect to draw primary air through the open rear end of the mixing tube, a secondary air tube leading from a source of air under pressure and mounted centrally within said mixing tube and terminating adjacent the forward end thereof, a mushroom-like head mounted on the forward end of said secondary air tube and spaced from the forward end and side wall of said mixing tube so as to provide a passageway for the mixture of air and gas from said mixing tube, said head having its rear face curved so as to deflect the air and gas mixture on a line extending approximately 90 degrees to the burner axis, and said head having its forward face grooved to form an air passage, a plurality of openings from said groove to the interior of said head through which the secondary air under pressure is adapted to pass, and a baffle plate secured to the forward end of said head and extending beyond said groove, said plate having a rearwardly projecting inwardly beveled flange adapted to cooperate with the peripheral edge of said head to form a restricted outlet for the secondary air and to direct said air back on an angle against the flow of air and gas mixture from said mixing tube so as to force the burning mixture rearwardly against the furnace wall.

1,754,604. AUTOMOTIVE DRIVING CONSTRUCTION. LAURENCE R. BUCKENDALE, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Ohio. Filed May 17, 1929. Serial No. 363,922. 9 Claims. (Cl. 74—99.)



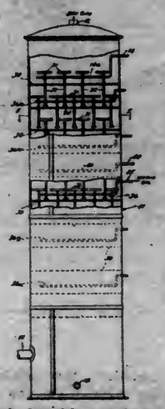
1. An automotive axle construction comprising a hollow housing, axle shafts arranged in said housing, gears journaled in said housing and cooperating with the adjacent ends of the respective axle shafts for driving the same, and a member for rotatably supporting the adjacent ends of said gears.

1,754,605. STILL. JULIAN A. CAMPBELL, Long Beach, Calif. Filed Apr. 19, 1927. Serial No. 184,866. 5 Claims. (Cl. 261—114.)



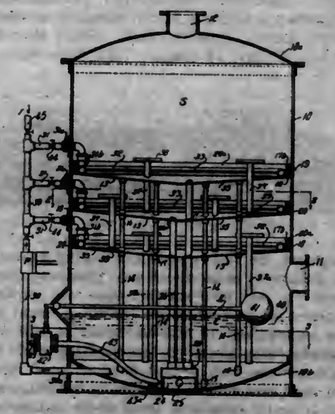
1. Fractionating apparatus, comprising a vertical shell, a vertical central standpipe extending through the length of the shell and closed at its upper end, liquid delivery openings in the standpipe at an intermediate level adapted to deliver liquid into an intermediate part of the shell, a series of perforated horizontal plates vertically spaced in the shell below said intermediate part, said plates surrounding the standpipe, froth-breaking pans arranged above said plates, liquid delivery tubes extending down from the froth-breaking pans to deliver liquid from them to points above plates below, a series of horizontal perforated plates vertically spaced in the shell above said intermediate part and surrounding the vertical standpipe, froth breaking pans located above said last mentioned plates, liquid delivery tubes extending downwardly from said pans through the corresponding plates to deliver liquid above the plates next below, the liquid delivery tube of the lowermost one of said last mentioned pans delivering liquid directly into said intermediate part of the shell, and means to introduce a reflux liquid above the uppermost one of said last mentioned plates.

1,754,606. STABILIZING ABSORPTION SYSTEM. JULIAN A. CAMPBELL, Long Beach, Calif. Filed Apr. 19, 1927. Serial No. 184,868. 10 Claims. (Cl. 196—11.)



9. The method of absorbing and stabilizing liquids having different vapor tensions, that includes passing vapor laden gases upwardly through a downwardly moving stream of absorbing liquid, supplying heat from an extraneous source to the lower portion of said downwardly moving stream above the point of gas introduction thereto, whereby the lower portion of the stream is maintained at a comparatively higher temperature than the upper part.

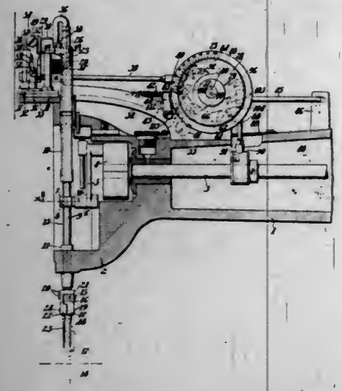
1,754,607. SCRUBBER. JULIAN A. CAMPBELL, Long Beach, Calif. Filed Nov. 5, 1928. Serial No. 317,346. 10 Claims. (Cl. 261—114.)



1. A device of the character described embodying a vertical shell, a horizontally extending perforated plate

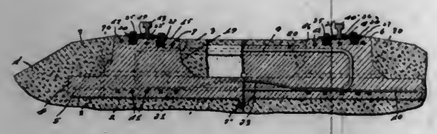
within the shell, a liquid inlet for delivering comparatively light liquid on top said plate, a gas inlet for introducing gas containing comparatively heavy liquid particles beneath the plate, the gas body flowing upward through the plate perforations and the heavy liquid particles being held in the light liquid on said plate, means associated with said plate for separately removing the liquid, and means for conducting said light liquid downward through the plate.

1,754,608. SEWING-MACHINE NEEDLE-CONTROLLING MECHANISM. FREDERIC M. CARD, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 9, 1925. Serial No. 35,854. 11 Claims. (Cl. 112—221.)



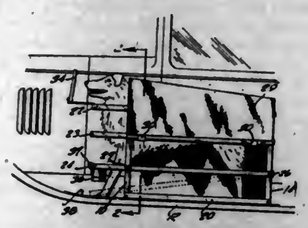
1. In a sewing machine, the combination with two needle bars, actuating mechanism for reciprocating said needle-bars, and controlling means for uncoupling one of said needle-bars from its actuating mechanism during the operation of the machine, of a latch-lever for holding said controlling means in needle-bar uncoupled position, a latch-lever releasing tappet, a tappet adjusting member, an indicator-disk, means including a spring for yieldingly locking said adjusting member to said indicator-disk, and operating mechanism brought into effective action by the operation of said controlling means for intermittently rotating said indicator-disk and tappet to release said latch-lever.

1,754,609. RAILWAY-ROADBED CONSTRUCTION. PAUL CHIPMAN, Detroit, Mich., assignor of one-half to Frank H. Alfred, Detroit, Mich. Filed May 6, 1929. Serial No. 360,897. 7 Claims. (Cl. 238—7.)



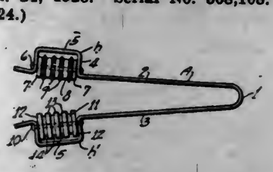
1. A support for railway rails including a platform of concrete, girders of concrete on said platform, cross walls of concrete on said platform between said girders, reinforcing means for said platform including metal members extending transversely of and embedded in said platform, said members being provided intermediate their ends between said girders with arched portions, and reinforcing means for said girders and cross walls including elements extending laterally from said cross walls and embedded in said girders.

1,754,610. ANIMAL CARRIER. ALBERT S. CLAYTON, Santa Ana, Calif. Filed Sept. 10, 1928. Serial No. 304,913. 9 Claims. (Cl. 224—29.)



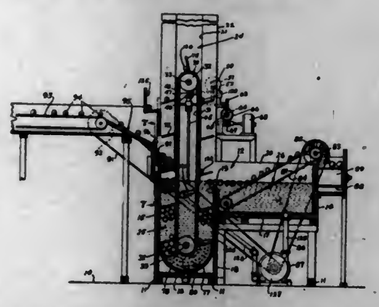
5. An animal carrier comprising intersecting frames cooperating to provide an animal confining enclosure, and adapted to be secured on a running board of an automobile, means for rendering one of the frames movable in such manner as to provide an opening in the carrier of sufficient size to permit passage of the animal, and means for securing said one of the frames in a position wherein the opening is decreased in size sufficiently to prevent the escape of the animal.

1,754,611. POCKET CHECK PROTECTOR. ROBERT G. CLYNE, St. Louis, Mo.; Mercantile-Commerce Bank and Trust Company of St. Louis, administrator of said Robert G. Clyne, deceased, assignor to Clyne Engineering Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 24, 1928. Serial No. 308,108. 5 Claims. (Cl 101—24.)



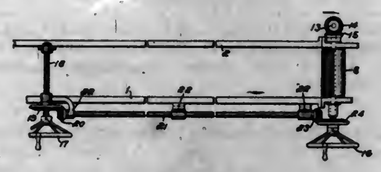
1. In a pocket-check protector, as a new article of manufacture, co-operating rollers for rollably engaging therebetween the check to be protected, and an independently rotatable toothed roller for cutting the so engaged check on relative movement of the check and protector.

1,754,612. LIQUID-BATH APPARATUS. CHARLES B. COOK, Los Angeles, Calif. Filed Oct. 11, 1926. Serial No. 140,737. 16 Claims. (Cl. 146—196.)



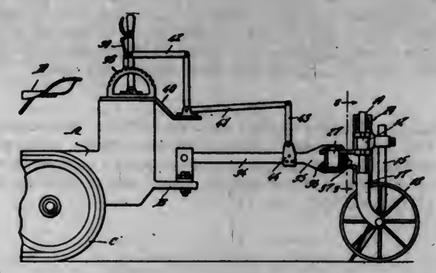
16. In a device for treating fruit, a tank comprising a divided compartment for a treating fluid, an elevating conveyor arranged to travel up and down in said compartment, said conveyor including a pair of spaced chain members, conveyor flights on said chains said flights acting in conjunction with the walls of said compartment to provide pockets, and sprockets mounted in said tank for said chains.

1,754,613. LOOM SHEDDING-MECHANISM CONTROL. RANDOLPH CROMPTON, Worcester, Mass., assignor to Crompton, Inc., Boston, Mass., a Corporation of Delaware. Filed July 9, 1926. Serial No. 121,398. 2 Claims. (Cl. 139—77.)



1. In a loom of the type having a plurality of harnesses, shedding means, pattern mechanism therefor at one side of the loom, and means at said loom side whereby the weaver may operate the harnesses manually, the combination therewith of a cross-shaft rotatably mounted on the loom, a pinion on said shaft at the pattern mechanism side of the loom, a gear meshing with said pinion and operatively connected with the manual harness-operating means at said loom side, an auxiliary manual member at the opposite side of the loom, a gear adjacent and operable by said auxiliary manual member, and a pinion on the adjacent portion of said shaft and meshing with said last named gear, whereby the weaver may optionally and similarly operate the harnesses from said opposite side of the loom.

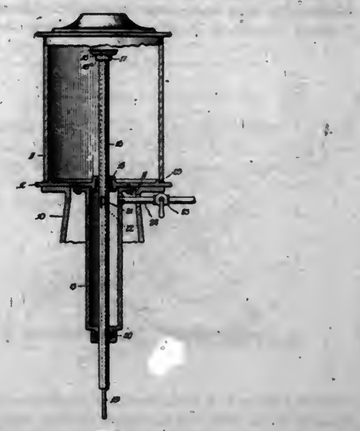
1,754,614. CULTIVATOR ATTACHMENT FOR TRACTORS. THOMAS RICHARD CUMMINGS, Walnut Grove, Calif. Filed May 1, 1929. Serial No. 359,603. 2 Claims. (Cl. 97—47.)



1. A cultivator attachment for tractors comprising a wheeled frame, earth digging elements secured to said frame, an arm extending from said frame and being pivotally connected to the tractor, and means for raising said wheeled frame to disengage the earth digging element, said wheeled frame consisting of a pair of parallel members, one of said members having the arm projecting therefrom, the other member being adapted to support the wheels, and a coupling between the first mentioned member and the second mentioned member and within which the second mentioned member is movable.

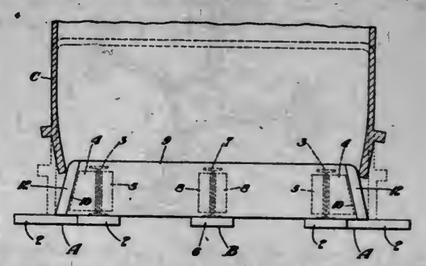
1,754,615. VISIBLE PUMP. LEO DEUTSCH, Beaver, Pa., assignor, by mesne assignments, to The Wayne Pump Company, Baltimore, Md., a Corporation of Maryland. Filed July 18, 1927. Serial No. 206,575. 2 Claims. (Cl. 225—100.)

1. In a device of the character described, the combination of a measuring chamber, a fluid reservoir associated therewith, and means communicating with said reservoir for controlling flow of fluid from said chamber to said reservoir, said means including measuring means and valve means for controlling the flow of fluid into said



first named means and reservoir and a draw-off means from said reservoir, said valve means being operable externally of said chamber and said reservoir.

1,754,616. METHOD OF AND APPARATUS FOR STRAIGHTENING ANNEALING BOXES. ALLEN W. EARL, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Filed July 21, 1927. Serial No. 207,478. 3 Claims. (Cl. 153—32.)



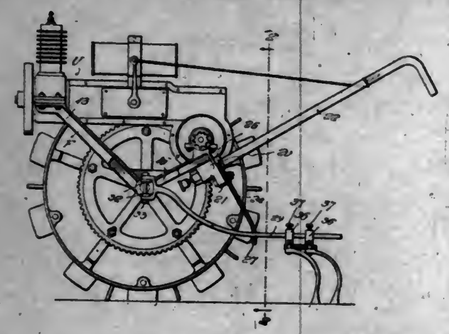
1. The method of straightening warped annealing box covers, which consists in providing a rigid base having upwardly extending and inwardly inclined side and end walls, said walls having an outside dimension at the bottom substantially the same as the inside dimension of the unwarped annealing box covers, an outside dimension at the top of less than the inside dimension of the warped annealing box covers, heating said warped covers, positioning said covers over the upper end of said base, applying pressure to the top of said cover to force said cover down over said base, and then permitting said cover to cool while on said base to prevent rewarping during the cooling thereof.

2. A straightener for annealing box covers comprising a supporting structure having upwardly extending and inwardly inclined supporting faces, a pair of straightening plates mounted on said supporting structure and inclined against said supporting faces, said plates having their end faces beveled upwardly and inwardly, and a second pair of straightening plates mounted against the end faces of said first named plates.

1,754,617. GARDEN TRACTOR. HERMAN E. ESCH and EMMOR A. BUCHANAN, Cherryvale, Kans. Filed June 7, 1929. Serial No. 369,185. 5 Claims. (Cl. 97—48.)

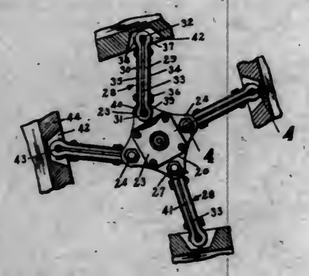
1. In a garden tractor, a power unit, two V-shaped side frames disposed substantially in vertical planes at

opposite sides of said power unit and having wheels driven by said unit, the front and rear arms of said frames being secured to said unit, said rear arms having rearwardly inclined bearings, handles having their lower ends ro-



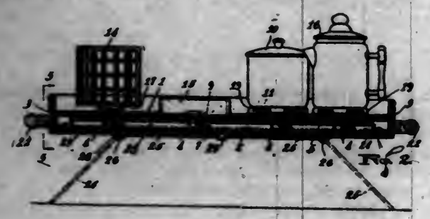
tatably received in said bearings, implement-guiding levers fulcrumed to the rear portions of said arms, and means operatively connecting said handles and said levers to effect swinging of the latter upon rotation of said handles.

1,754,618. CONNECTING ROD FOR AIR PUMPS. STANLEY L. FISHER, Chester, Conn., assignor to Pratt Read Player Action Company, Deep River, Conn. Filed Apr. 4, 1927. Serial No. 180,873. 22 Claims. (Cl. 74—17.)



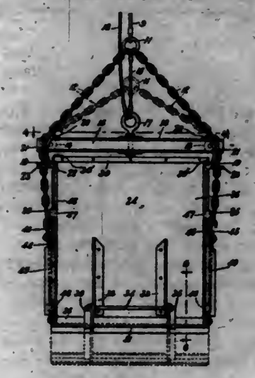
1. A connecting rod for an air pump or the like, comprising a rigid central body portion and bearings on the opposite ends thereof and extending substantially freely outwardly therefrom, said bearings being wholly composed of sound deadening material.

1,754,619. ELECTRIC SERVICE TRAY. HARRY G. FORD, San Francisco, Calif. Filed Jan. 19, 1929. Serial No. 333,637. 9 Claims. (Cl. 219—43.)



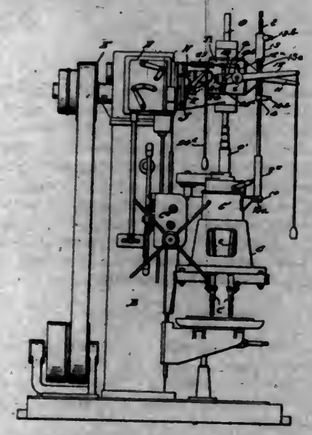
1. An electric service tray, comprising an upper part, a lower part removably secured to the upper one, outlet sockets carried by the lower part, a switch for each socket carried by the lower part, the upper part having openings therein for receiving the sockets and the switches, the rims of the openings being beaded and fitted snugly against the sockets and the switches, electric units having terminals receivable in the sockets, supporting aprons for each unit and extending below the bottoms of the terminals, wiring carried by the bottom part and being electrically connected with said sockets and switches, and a cover for the wiring and being carried by the lower part.

1,754,620. BATCH BOX AND GRAPPLING MEANS THEREFOR. EUGENE P. FORRESTEL, Buffalo, N. Y. Filed Apr. 4, 1929. Serial No. 352,529. 9 Claims. (Cl. 294—71.)



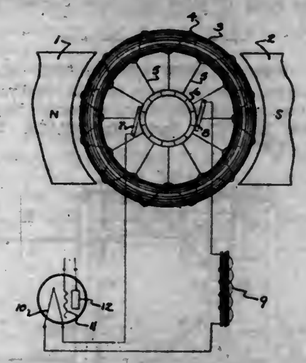
1. In combination with a batch box a grappling means therefor, comprising a bail having gravity hooks at its opposite ends for supporting the batch box, said batch box having bottom doors, link mechanism at the sides of the box and connected with the doors, chains trained over the ends of the bail and adapted to be connected to the link mechanism, the upper ends of said chains adapted to be connected to a cable whereby the doors will be held closed, and a second cable adapted to be connected with the bail whereby when the load is transferred from the one cable to the other the doors may swing open.

1,754,621. TAPPING OR LIKE MACHINE. WILLIAM R. FOX and HOWARD D. CORWIN, Jackson, Mich., assignors to Fox Machine Company, Jackson, Mich., a Corporation of Michigan. Filed Apr. 3, 1925. Serial No. 20,458. 17 Claims. (Cl. 10—137.)



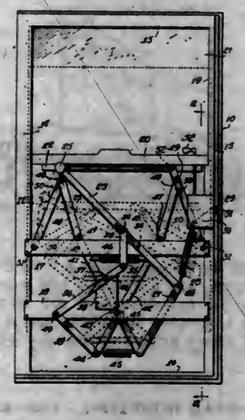
10. In combination in a tapping machine, a travelling head carrying a tool, reversing gearing for changing the direction of movement of the head, a main clutch for driving the machine, means in which power is stored by the movement of the head, and controlling means whereby at a prescribed point in the movement of the head, the power stored in said means is applied to throw out the main clutch and reverse the gearing to change the direction of the head, said controlling means including a lock for the reversing gearing to hold it against reversal while the power is being stored, and a contact moving with the head and releasing said lock at said prescribed point, substantially as described.

1,754,622. PREVENTING COMMUTATOR NOISES IN RADIO. EDWARD G. GAGE, Brooklyn, N. Y., assignor to Radio Patents Corporation, New York, N. Y. Filed Mar. 23, 1923. Serial No. 627,002. 1 Claim. (Cl. 171—97.)



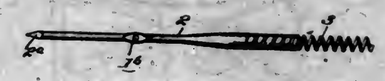
The method of generating an effectively smooth direct current with a commutator machine having a plurality of alternating current sources and corresponding commutator segments consisting in running the commutator at such a speed that the frequency of commutator ripple is below the limit of audibility.

1,754,623. WINDOW-OPERATING MECHANISM. PAUL S. GEUSS, Easton, Pa. Filed June 22, 1928. Serial No. 287,556. 6 Claims. (Cl. 268—127.)



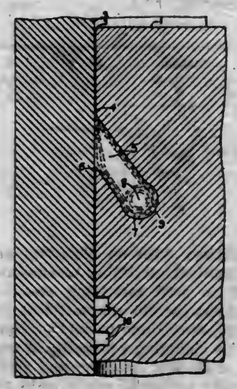
1. A device of the character described comprising a pair of lever arms of equal length pivotally supported at their lower ends and having their upper ends adapted to support a vertically slidable window at spaced points along the lower edge thereof, a pair of levers pivotally supported intermediate their ends, means pivotally connecting one end of each lever of said pair to one of said lever arms, spring means connected at opposite ends to said pair of levers, and means for swinging the opposite ends of said pair of levers toward and away from each other.

1,754,624. TIRE PLUGGING METHOD AND MEANS THEREFOR. RICHARD T. GRIFFITHS, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 6, 1928. Serial No. 267,985. 5 Claims. (Cl. 152—27.)



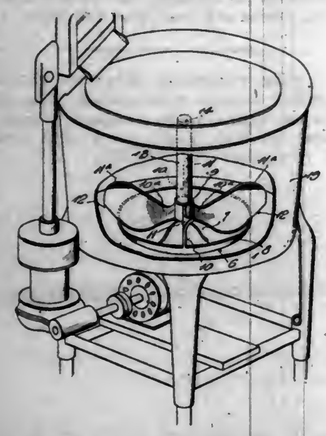
4. Means for inserting plugs in tire casings comprising a needle and a cylindrical wire helix rigidly carried by one end of said needle, said helix comprising a plurality of closely arranged helical coils having a plug receiving opening formed by said coils.

1,754,625. PISTON RING. PAUL J. HENNING and WILBUR H. JUDY, Buenos Aires, Argentina. Filed Sept. 8, 1927. Serial No. 218,302. 3 Claims. (Cl. 74—109.)



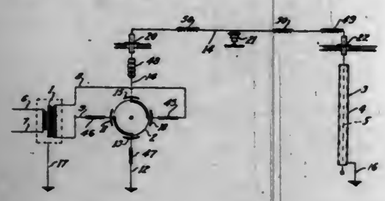
1. A piston for a cylinder adapted to contain a fluid under pressure, said piston having a relatively loose fit in the cylinder to provide a passage for fluid therebetween, and means for reversing the direction of flow of said fluid and directing the fluid against the fluid passing between the cylinder and piston to oppose the passage thereof, said means for reversing the direction of flow of the fluid comprising a groove in the piston communicating with the passage between the cylinder and piston, the groove being inclined towards that end of the piston from which the fluid passes and being provided with a concave bottom.

1,754,626. WASHING-MACHINE IMPELLER. RICHARD J. HOLZHAUSEN, Westport, Conn. Filed Jan. 3, 1930. Serial No. 418,327. 7 Claims. (Cl. 259—101.)



1. An oscillatory washing machine impeller mounted on a vertical axis and embodying substantially radial blades at least two of which are pitched oppositely; whereby upon turning of the impeller in either direction, one of said blades will create downward movement of water and the other will create upward movement of water.

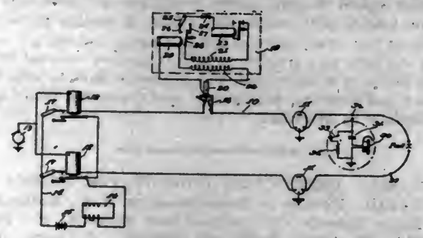
1,754,627. APPARATUS FOR THE PREVENTION OF HIGH-FREQUENCY RADIATION. JOHN J. JAKOSKY, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 30, 1925. Serial No. 78,472. 3 Claims. (Cl. 250—16.)



1. In combination with an electrical precipitation installation, mechanical rectifying means, an electrical circuit connected to said rectifying means for supplying alternating current thereto, an electrical circuit connected to said rectifying means and to said precipitation installation, said circuits including a plurality of capacity branches in connection with said rectifier and including portions providing effective radiating means, said rectifying means tending to produce high frequency oscillations in said circuits, means for preventing radiation of high frequency waves from said effective radiating means comprising a choke coil included in each of said circuit portions and presenting a sufficient high frequency impedance to effectively prevent high frequency oscillations therein.

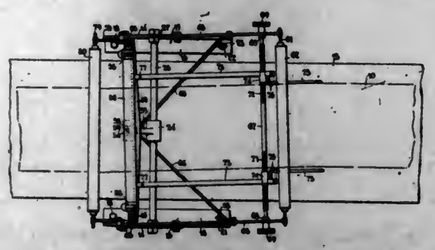
1,754,628. LOCATING FAULTS ON MESSENGER-CALL CIRCUITS. GEORGE W. JANSON, Nutley, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Aug. 28, 1924. Serial No. 734,784. 4 Claims. (Cl. 175—183.)

1. In a line testing system, an induction coil comprising a primary and a secondary winding, a tone current generating circuit connected to the primary winding, a relay connected to the secondary winding and controlling the operation of the tone current generating circuit, and



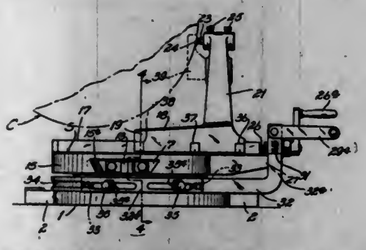
means adapted to be connected to the line at any point for causing the relay to close said tone current generating circuit.

1,754,629. WEB-GUIDING APPARATUS. RAPHAEL S. KIRK, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 12, 1927. Serial No. 232,828. 20 Claims. (Cl. 271—2.6.)



1. An apparatus for automatically straightening a continuous web of material carried by a conveyor comprising a frame secured to the conveyor frame and a web supporting and guiding member pivotally mounted on the frame.

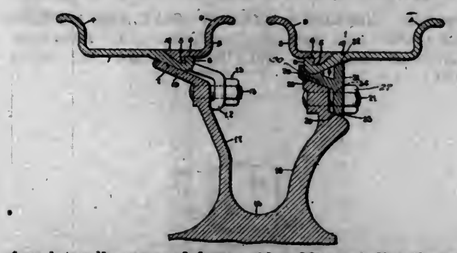
1,754,630. DRESSING DEVICE FOR GRINDING WHEELS. PAUL KLAMP and JOHN J. WOOLLEY, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 5, 1928. Serial No. 259,096. 11 Claims. (Cl. 125—11.)



1. A dressing device comprising a base, a way rotatably supported thereon, and a dressing tool supported on said way for rotation therewith and for sliding movement thereon along a circular arc whose center is offset with respect to the rotary axis of said rotary member.

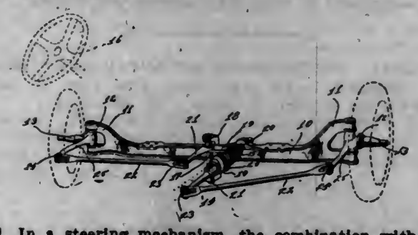
1,754,631. WHEEL MOUNTING. FRED R. KLAUS, Warren, Ohio, assignor to Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 23, 1927. Serial No. 177,647. 3 Claims. (Cl. 301—19.)

3. A vehicle wheel structure comprising a wheel body having a conical supporting face, an adjacent shoulder, a split adaptor ring having an internal bearing face for registering with said conical supporting face, a second internal bearing face for registering with said shoulder, an external rim supporting saddle directly overlying said first conical supporting face, an external rim supporting



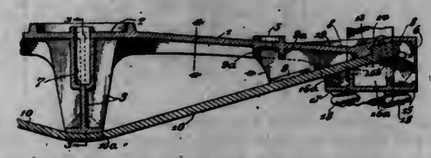
face laterally removed from said saddle and directly overlying said shoulder, and means for forcing said adaptor ring laterally across said supporting face and said shoulder to expand positively said ring into interlocking relation with said rim.

1,754,632. STEERING-GEAR MECHANISM. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Virginia. Filed Mar. 14, 1927. Serial No. 175,360. 3 Claims. (Cl. 280—96.)



1. In a steering mechanism, the combination with an axle having steering knuckles adjacent the ends thereof, of a shaft supported by said axle intermediate the ends thereof and extending transversely of the same, bell crank levers mounted upon said shaft, links establishing a connection between one arm of said levers and the knuckles aforesaid, and a driving member connected to the other arm of said bell crank lever for actuating the same to effect an operation of said steering knuckles.

1,754,633. TRUCK BOLSTER. MARK H. MARTIN, Reading, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1928. Serial No. 325,492. 4 Claims. (Cl. 105—280.)



1. A truck bolster comprising a compression member and end column guide castings connected integrally with each other, said compression member having projections upon its under side near its opposite ends forming outwardly facing shoulders and said end castings comprising spaced depending walls, a tension member the outer ends of which extend between the said walls and terminate inwardly of the outer ends of the said compression member and the outer ends of said tension member being thickened to provide inwardly facing shoulders upon their upper sides which engage the outwardly facing shoulders upon the under side of said compression member, and

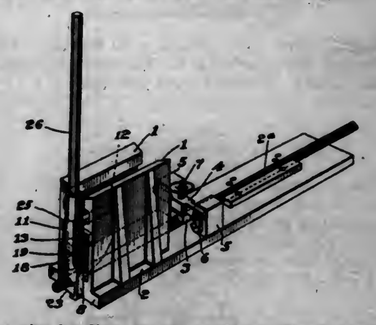
castings located between the said walls and having side and intermediate portions in contact with the under sides of the opposite end portions of the said tension member.

1,754,634. BODY BOLSTER. MARK H. MARTIN, Reading, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a Corporation of Pennsylvania. Filed Dec. 12, 1928. Serial No. 325,493. 10 Claims. (Cl. 105—230.)



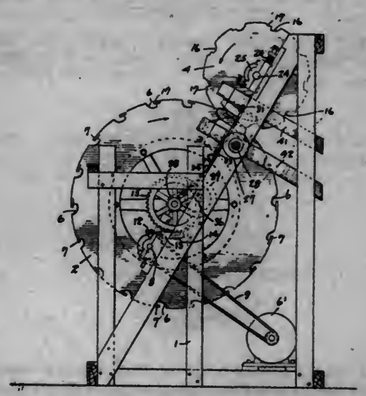
1. In a body bolster for railway cars, a bottom cover plate for said bolster comprising a single steel casting, said casting including side bearings integral therewith.

1,754,635. BENDING APPARATUS. BERNARD J. MCCARTHY, Jamaica Plain, Mass. Filed July 18, 1928. Serial No. 292,443. 4 Claims. (Cl. 153—40.)



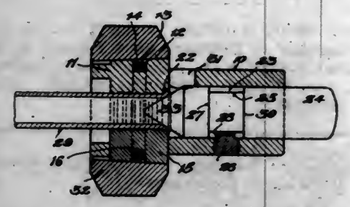
1. In a pipe bending apparatus, the combination with a rotatable form, having a horizontal shaft and a clevis for clamping the pipe to the form, and standards between which the form rotates having a track under which the ends of the shafts are positioned, of means for rotating the form on the shaft and reciprocating the shaft along the track to apply the form progressively to the portion of the pipe to be bent.

1,754,636. FRUIT PITTER. ALVAN B. MCCOLLOM, San Francisco, Calif. Filed May 9, 1927. Serial No. 189,978. 6 Claims. (Cl. 146—28.)



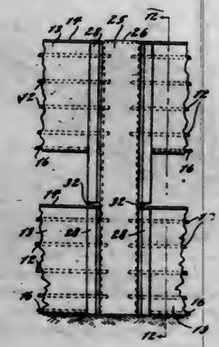
1. A fruit pitter comprising a pair of discs for cutting the flesh of a fruit and for holding the stone of the fruit, said discs being movable toward and away from each other for adapting said discs to hold stones of various sizes.

1,754,637. PIPE-FLANGING TOOL. CYRIL A. MCGOUGH, Altoona, Pa. Filed July 28, 1927. Serial No. 209,050. 7 Claims. (Cl. 153—79.)



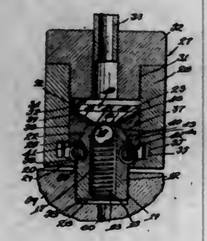
3. In a pipe-flanging tool, a plurality of radially movable segmental pipe-gripping members each having a tapered outer face, a ring having a tapered bore receiving said members whereby longitudinal movement of said ring relative to said members forces the latter into gripping engagement with a pipe positioned between said members, and means for flanging the end of a pipe gripped between said members.

1,754,638. CONCRETE FORM AND STRUCTURE. FRED J. MEAD, East Orange, N. J. Filed May 26, 1926. Serial No. 111,724. 4 Claims. (Cl. 25—125.)



4. In a device of the character described, posts having grooves facing each other, spaced plates extending between the posts on each side of said grooves, and means for closing the lower end of the space between the plates.

1,754,639. COUPLING. EDWIN C. MEYER, Los Angeles, Calif. Filed June 1, 1927. Serial No. 195,688. 12 Claims. (Cl. 285—169.)



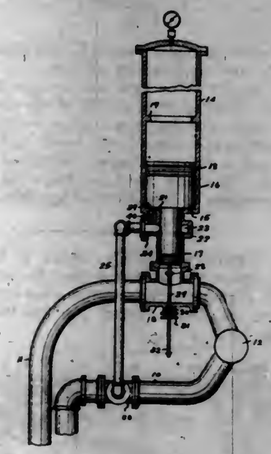
10. A coupling comprising in combination a chuck like structure having a passage therethrough with a piston slidable in said passage, a nipple insertable in the discharge end of the chuck, means in the chuck to engage the nipple, said piston and nipple having co-engaging surfaces and surfaces exposed to pressure of material forced through the chuck and nipple, the area of the piston exposed to said pressure acting in the line of movement of the piston being greater than the area of the nipple exposed to said pressure.

1,754,640. COMBINED WINDOW SEAT AND REFRIGERATOR. MOZ MIZRAHI, New York, N. Y. Filed Aug. 22, 1928. Serial No. 301,279. 4 Claims. (Cl. 312—101.)



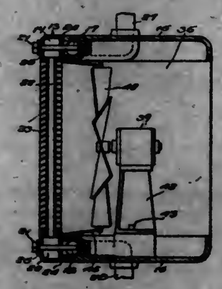
3. A device of the character described, including a window attachment, comprising a seat and a back to support a person seated in the window, a closure having a top, a front, and side walls to removably coact with the attachment to provide an enclosure for the reception of articles, and means to secure the closure to said attachment and to pull the closure into snug engagement with the attachment to make the enclosure weathertight.

1,754,641. PRESSURE-RELIEF APPARATUS. HENRY G. MOBLEY, League City, Tex. Filed June 21, 1926. Serial No. 117,220. 5 Claims. (Cl. 137—78.)



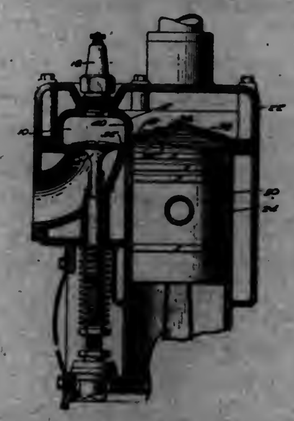
1. In a pressure control system including a low pressure line and a high pressure line, a cylinder connected into said high pressure line and having its outer end enlarged, a floating plunger-like valve in said cylinder, formed to conform to the contour of and to work in said cylinder, a by-pass controlled by said valve and connecting the reduced end of said cylinder into the low pressure line and having a port through which it is also connected into the enlarged end of the cylinder and a check valve controlling said port and arranged to permit the discharge of fluid from said cylinder into said by-pass.

1,754,642. HEATING UNIT. ARTHUR B. MODINE, Racine, Wis., assignor to Modine Manufacturing Company, Racine, Wis., a Corporation of Wisconsin. Filed Mar. 26, 1926. Serial No. 97,751. 24 Claims. (Cl. 257—137.)



4. Apparatus of the kind described comprising a frame having a plurality of spaced U-shaped passages therein, a radiator core secured to the frame and having upper and lower tanks, the upper tank communicating at two spaced points with one of said passages and the lower tank communicating at two spaced points with another of said passages, a fan for advancing a column of air through said core, means carried by the frame for driving the fan, and means adjustably connecting said frame to a fluid supply pipe, one of said passages communicating with said pipe through said connecting means.

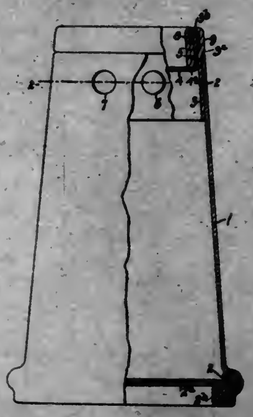
1,754,643. ANTIDETONATION CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES. ARLINGTON MOORE, New York, N. Y. Filed Jan. 3, 1927. Serial No. 158,484. 18 Claims. (Cl. 123—191.)



1. A cylinder head for four-cycle L-head internal combustion engines, having relatively high combustion chamber portions over the valves and over the cylinder bore respectively, and having a relatively low passage therebetween on the side adjacent to the intake valve and a relatively high passage therebetween on the side adjacent to the exhaust valve.

1,754,644. PAPER BOTTLE. ARLINGTON MOORE, New York, N. Y. Filed May 29, 1926. Serial No. 112,486. 8 Claims. (Cl. 229—7.)

1. A paper container comprising a multi-ply tubular body portion having the intermediate portion of the blank contiguous to the end portions thereof provided with an off-set forming shoulders at the opposite sides of the offset abutting said end portions; said intermediate and



end portions being consolidated together under high pressure to form a body portion of substantially uniform thickness throughout having substantially smooth continuous inner and outer surfaces.

1,754,645. ELECTRIC MOTOR. ALFRED E. OSWALD, Hackensack, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Original application filed Nov. 30, 1920, Serial No. 427,346. Divided and this application filed Aug. 18, 1925. Serial No. 50,928. 2 Claims. (Cl. 172—276.)



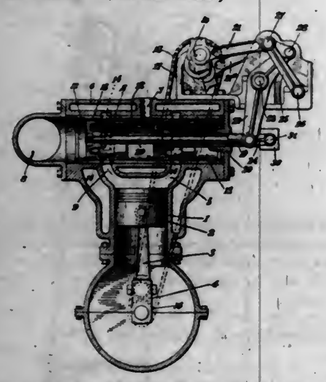
1. As a new article of manufacture, the combination of a plate insulating material, electrical contacts mounted thereon for electrically engaging the terminals of the armature coils, field coils and auxiliary coils of a convertible motor, wires supported on the plate electrically connecting the contacts together, and a separate plate secured over said contact-plate and forming therewith a box having top, sides and ends constituted of said separate plate and a bottom constituted of the contact-plate, said box enclosing said wires.

1,754,646. ELECTRIC-CURRENT-OUTLET MEMBER. THOMAS CARR POWELL, Chicago, Ill. Filed Nov. 15, 1928. Serial No. 319,594. 1 Claim. (Cl. 72—343.)



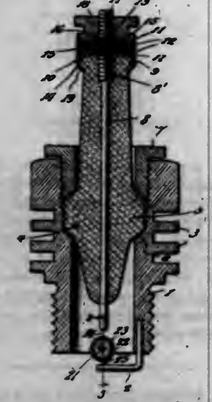
An electric-current outlet member having a pair of prong sockets in its exposed end and also having adjacent to and at opposite sides of said pair of sockets portions contrasting in color to the remainder of the member; said portions being in a diametrical line with the sockets and within the plane of the exposed end of the member.

1,754,647. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. CLIFTON REEVES, Trenton, N. J. Filed Jan. 22, 1925, Serial No. 4,100. Renewed Apr. 17, 1929. 14 Claims. (Cl. 123—188.)



1. An internal combustion engine having a cylinder provided with inlet and exhaust ports, a valve adapted to travel back and forth across one of said ports to open and close the same, an actuating mechanism positively connected to said valve, said actuating mechanism including means for accelerating the motion of the valve as it passes the port, a second valve for the other of said ports, and a separate actuating mechanism for said second mentioned valve.

1,754,648. SPARK PLUG. JOHN P. RITCHEY, Wichita, Kans. Filed July 28, 1928. Serial No. 295,944. 8 Claims. (Cl. 123—169.)

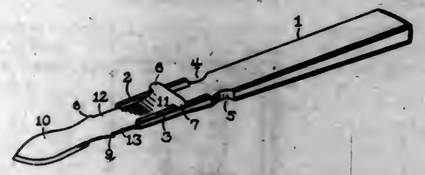


1. A spark plug comprising a shell, a body of insulating material therein, a main electrode in the body, a ground electrode carried by the shell, a cap secured to the upper end of the body, a plurality of superposed mica discs confined in the cap and having openings therein, alternate discs having metallic discs in their openings and spaced the thickness of a mica disc to produce spark gaps.

1,754,649. SWEETENING PROCESS. GENTRY LLOYD ROWSEY, Amarillo, Tex. Filed Apr. 13, 1927. Serial No. 183,624. 4 Claims. (Cl. 196—29.)

1. An improved method of sweetening gasolines and kerosenes which comprises agitating the oil with a suspension of preformed lead sulphide in a caustic soda solution while bringing air into intimate contact with the mixture.

1,754,650. SURGEON'S KNIFE. NILS SEAHOLM, Mount Vernon, N. Y. Filed Oct. 26, 1926. Serial No. 144,330. 4 Claims. (Cl. 30—9.)



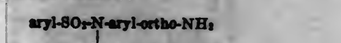
1. A surgeon's knife including the combination with a handle having a blade seat projecting forwardly therefrom, there being a relatively narrow section between the handle proper and the blade seat, of a pair of oppositely disposed guards on said blade seat for locating and retaining said blade and a blade for mounting between said guards on said seat having a pair of diverging and aligned tongues at the inner extremity of said blade normally engaging the inner extremities of said guard and projecting outward between the blade seat and the handle to serve as finger pieces whereby to raise the inner end of said blade so as to permit said finger pieces to slide upon their respective guards and thereby release said blade from said seat and handle.

1,754,651. METHOD OF TREATING CASEIN AND PRODUCT OF SAID METHOD. PHILIP SCHIDROWITZ, London, England, assignor of one-half to James B. Crockett, Cambridge, Mass. Filed Dec. 8, 1928. Serial No. 324,805. 4 Claims. (Cl. 252—8.)

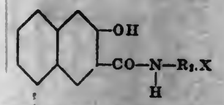
1. A fluid alkaline solution of casein containing piperidine.

1,754,652. AZO DYESTUFFS AND PROCESS OF PRODUCING THE SAME. OTTO SOHST, Hochst-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed June 26, 1926, Serial No. 118,850, and in Germany July 7, 1925. 6 Claims. (Cl. 260—95.)

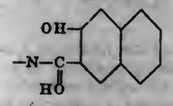
1. Process consisting in causing the diazo compound of a base of the general formula:



wherein R_1 stands for an alkyl or aralkyl group, and wherein the hydrogen atoms of the aryl groups may be substituted, to act upon an acid amide of the following composition:



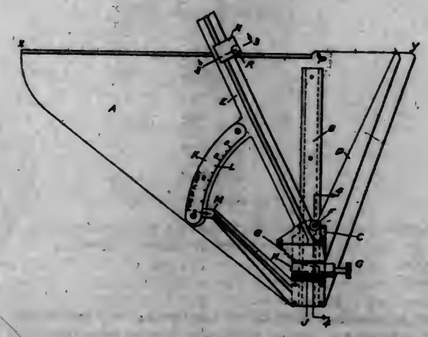
wherein X stands for hydrogen or the atomic grouping



and R_2 for an aryl group the hydrogen atoms of which may be substituted.

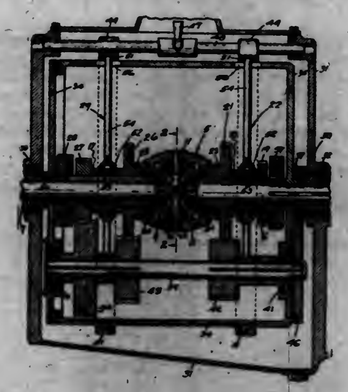
1,754,653. PREDICTING DEVICE. THOMAS J. STEPHENS, U. S. Army, Fort Monroe, Va. Filed Dec. 7, 1926. Serial No. 153,185. 5 Claims. (Cl. 235—61.5.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

1. A predicting device embodying a base plate having a fixed zero on its reading edge corresponding to present position of a target, a carrier movable on the base plate normal to the reading edge through the zero point, a fixed and a pivoted arm on the carrier intersecting the reading edge of the plate and respectively establishing a constant angle and a varying angle with the normal through the



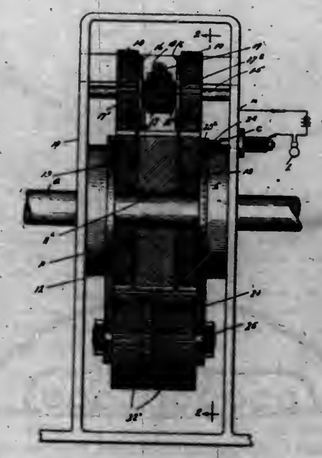
zero point, an arcuate extension on the pivoted arm having a graduated scale interpreting values of a function of the present position of the target, a pointer on the carrier against which said scale is read, a slidable marker on the pivoted arm and means for rotating said arm.

1,754,654. TRANSMISSION. BYRON STEVENS, Oakland, Calif. Filed Apr. 17, 1928. Serial No. 270,630. 7 Claims. (Cl. 77—34.)



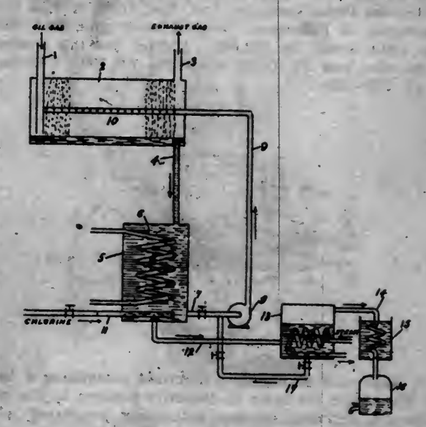
1. In a transmission, a driving shaft, a driven shaft, differential gears connecting the shafts, a differential housing operatively connected to said differential gears and rotatable on said shafts; sliding gears on said housing being selectively engageable therewith for imparting various speeds of rotation to said housing in the direction of the rotation of the driving shaft, driving gears for rotating said sliding gears, means for supporting said driving gears, said supporting means being fulcrumed on the driving shaft and being rotated thereby for moving said driving gear around the shaft; and means on said fulcrumed means for imparting to said driving gears a rotary movement around their own axis in the direction of the driving shaft rotation, thus rotating said sliding gears at a speed determined by the difference between the speed of rotation of said fulcrumed means and of said driving gears and by the gear ratio between the driving gears and the sliding gears.

1,754,655. CONTROLLING MEANS. HORACE F. STEVENS, Kenilworth, N. J. Filed May 26, 1925. Serial No. 32,902. 8 Claims. (Cl. 74—53.)



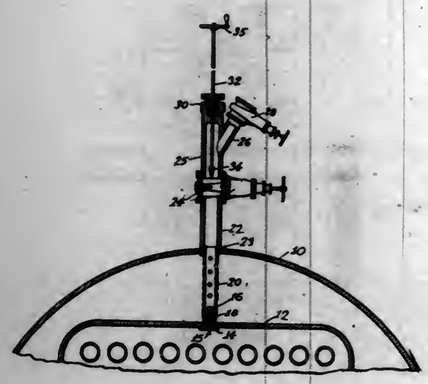
3. The combination with a driven rotary element, of an automatically controlled safety lock therefor, comprising an oscillatory element adapted to be swung and retained out of its normal position, when said rotary element revolves, and to return by gravity into its normal position, when said rotary element comes to a full stop, means operatively connected to said rotary element and means operatively connected to said oscillatory element and capable of interlocking with said first named means to lock said rotary element, when the latter is stopped.

1,754,656. METHOD OF CHLORINATING UNSATURATED HYDROCARBONS. CHARLES J. STROSACKER, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed May 16, 1928. Serial No. 278,351. 13 Claims. (Cl. 260—162.)



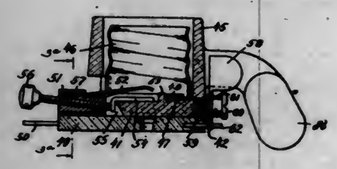
1. A method of chlorinating unsaturated hydrocarbons which comprises reacting upon hydrocarbons of the ethylene series with antimony pentachloride in the presence of a solvent containing the chlorinated product of the reaction.

1,754,657. DEVICE FOR REPLACING SAFETY PLUGS OF STEAM BOILERS. CECIL H. SWEET and EDWIN FORREST HURST, Brea, Calif. Filed Feb. 8, 1928. Serial No. 252,928. 3 Claims. (Cl. 122—504.3.)



1. The combination with a boiler and its crown sheet, of a bushing constituting a plug seat fitted in an opening in the crown sheet and a lower tube provided with openings in its wall and having its lower end engaging the bushing and extending through the steam and water space of the boiler to the exterior thereof, a second tube secured to the upper end of said lower tube provided at its upper end with a stuffing box, a reamer rod passing through the stuffing box for reaming the bushing seat, a valve intermediate the ends of said second tube, and a valve controlled conduit leading to said second named tube above its valve for guiding a plug into the second named tube, whereby the plug may be seated in the bushing on a manipulation of the valves without removing any parts of the mechanism.

1,754,658. LAMP FOR PROJECTING APPARATUS. THEODORE F. UHLEMANN, Glen Morris, N. Y., assignor to Nicholas Power Company, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Nov. 3, 1920, Serial No. 393,602. Divided and this application filed Aug. 23, 1924. Serial No. 733,703. 7 Claims. (Cl. 173—358.)



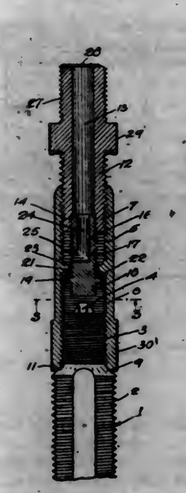
1. Apparatus of the class described comprising a base for supporting the lamp in operative position in the projector, a carrying member detachably associated with said base, a socket for the projecting lamp mounted on said carrying member, a terminal within said socket for making contact with the base of the lamp and means external to said terminal and having a variable length projecting into said socket for positively forcing said terminal into contact with the lamp base.

1,754,659. CASEMENT-SASH HINGE. THOMAS H. WALKER, Hollywood, Calif. Filed Mar. 7, 1928. Serial No. 259,775. 8 Claims. (Cl. 16—133.)



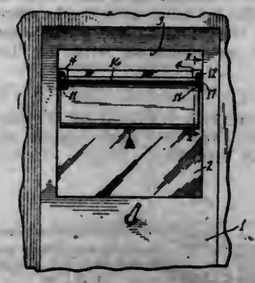
1. A casement sash hinge comprising in combination a first leaf and a second leaf each having knuckles with a pintle therethrough, the knuckles being arranged for relative sliding movement of their leaves on the pintle relative to each other, a rocking latch pivotally mounted on one of the leaves, such latch being adapted to interengage between the knuckles of the two leaves and to hold such leaves in a plurality of positions.

1,754,660. VALVE CAP. ARDEN D. WHIPPLE, Oakland, Calif., assignor to Clara M. Hutchinson, Piedmont, Calif. Filed Mar. 19, 1928. Serial No. 262,795. 1 Claim. (Cl. 152—12.)



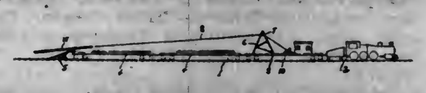
A valve cap comprising a sleeve having an internally left hand screw thread at its outer end and an internally right hand screw thread at its inner end, a nipple in screw-threaded engagement with the outer end of the sleeve, a plug having an axial bore and a communicating transverse bore in screw-threaded engagement with the nipple, an annular flange carried by the plug and spaced from the transverse bore and an annular flange internally of the sleeve and intermediate the screw-threaded portions for cooperation with the flange of the plug to form a seal.

1,754,661. WINDOW-SHADE FIXTURE. CHARLES H. WOOD, Oakland, Calif. Filed Nov. 1, 1926. Serial No. 145,428. 7 Claims. (Cl. 156—24.)



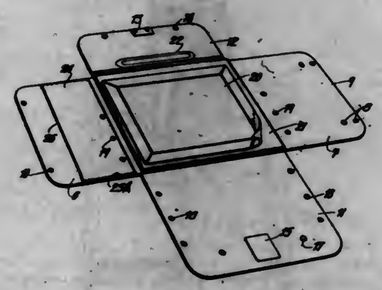
1. A shade support of the character described comprising an inverted channel formed with a V-shaped cut in one leg thereof to present a resilient V-shaped tongue, a projection extending inwardly from said tongue, and a bracket fastened to one face of said channel, a perforated lip extending at right angles to said bracket and adapted to support one end of a shade roller therein; and a lug extending from the channel behind said lip to form an abutment for the end of said roller.

1,754,662. METHOD AND APPARATUS FOR REMOVING RAILS FROM RAILROAD TRACKS. RAY WOODBURY and RAY L. MARTIN, Portland, Oreg., and GEORGE B. DOANE, Jr., Summit, N. J. Filed Jan. 29, 1929. Serial No. 335,900. 8 Claims. (Cl. 104—2.)



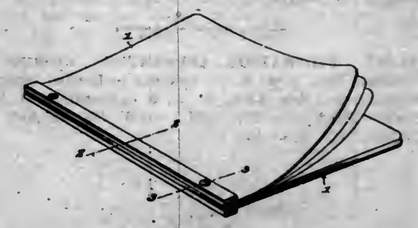
1. Apparatus for removing rails from railroad tracks, said apparatus in conjunction with a railroad vehicle for carrying such rails, and a plurality of rails to be loaded residing at unequal distances from said vehicle, comprising a moving cable, means for attaching such rails to said cable one after another commencing with the most remote in order that they may travel therewith, and an inclined apron up which the aforesaid rails travel to be received by said vehicle.

1,754,663. CARRYING CASE. ALFRED A. ADAMS, Brooklyn, N. Y. Filed Dec. 2, 1926. Serial No. 152,205. 1 Claim. (Cl. 150—1.6.)



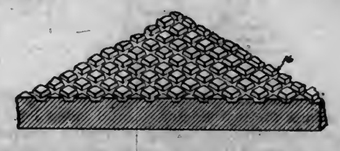
A carrying case for lodge regalia comprising a body section of rectangular configuration, a stuffed cushion of substantially the same area as the body section and mounted thereon, side and end flaps integral with the body section, a handle on one of said end flaps, a pocket in one of the side flaps and means for securing the side and end flaps together in overlapping relation whereby the flaps are held in close relation with the cushion.

1,754,664. LOOSE-LEAF BINDER. CLIFTON C. ANDREWS, Shaker Heights, Ohio. Filed June 14, 1928. Serial No. 285,330. 3 Claims. (Cl. 129—13.)



1. A loose leaf binder including a cover member of thin, flexible material and a narrow stiffener member, one edge portion of said cover being wrapped about and secured to said stiffener member with the edge projecting between the stiffener and the portion of the cover wrapped thereabout, the length of the cover in the direction of the length of the stiffener being substantially as great as the length of said stiffener.

1,754,665. STEAM-PRESS-HEAD CONSTRUCTION. LEON P. ANTHONY, Los Angeles, Calif., assignor of fifty per cent to Mary Adeline Reynolds, Los Angeles, Calif. Filed Sept. 26, 1928. Serial No. 308,491. 2 Claims. (Cl. 68—9.)



1. A press element comprising a flat plate having its surface provided with a plurality of fine cuts forming narrow ridges to produce a roughened surface to eliminate the gloss in pressing fabrics, the cuts being spaced apart a distance corresponding to that of the cuts of a finger nail file.

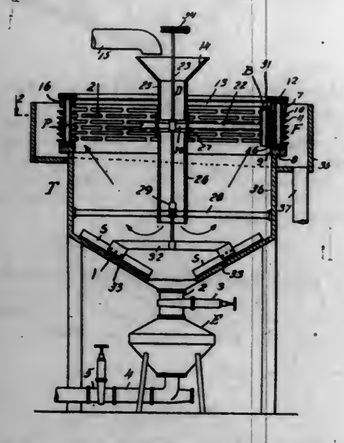
1,754,666. STOCKING PROTECTOR. EDWARD B. BISHOP, Haverhill, Mass. Filed Nov. 9, 1928. Serial No. 318,266. 1 Claim. (Cl. 36—2.)



A stocking protector comprising a body of flexible sheet material fashioned to fit against and cover the back only of a stocking from the calf thereof to the upper part of the heel and having adjacent its lower end and at opposite sides thereof front edges occupying positions immediately at the rear of the protuberances of the ankle joint of the

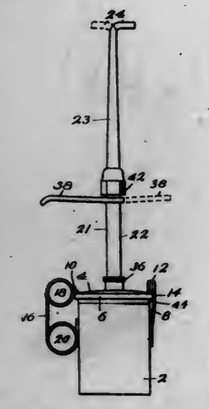
wearer whereby said body is held against rotative displacement on the leg, and means extending across the front of the stocking for holding said body in position against the leg of the wearer.

1,754,667. FILTRATION APPARATUS. CHARLES T. CABRERA, New York, N. Y., assignor to Electro Dialyzer Corporation, New York, N. Y., a Corporation of New York. Filed July 26, 1928. Serial No. 295,585. 7 Claims. (Cl. 210—45.)



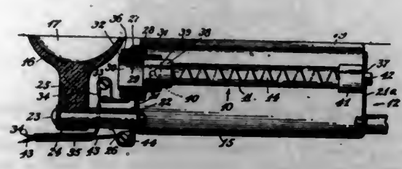
1. In a device for treating solid laden liquids, a container, means for introducing a solid laden liquid to said container, a continuous hollow extension secured to and extending completely around the upward edges of the side walls of said container, said extension having a plurality of openings in the inner and outer walls thereof, and a plurality of superimposed separately removable filtering partitions disposed within said hollow extension.

1,754,668. OIL CAN. RALPH L. CARY, Simpson, Kans., assignor of one-third to E. M. Brown, Salina, Kans. Filed Apr. 28, 1928. Serial No. 273,607. 3 Claims. (Cl. 221—50.)



1. A device of the character described consisting of a container having one end open, a removable cap for said open end provided with a peripheral bifurcated projection, latch means secured to the container and extending upwardly between said bifurcated projection for engaging over the cap to secure the latter upon the container and prevent it from turning upon the container, a catch secured to the container at a point opposite said latch means and adapted to coact with the latter in holding the cap upon the container, and a nozzle associated with the cap and communicating with the interior of the container.

1,754,669. HEATER. JOSEPH H. COHEN, Bridgeport, Conn. Filed Aug. 28, 1925. Serial No. 53,005. 8 Claims. (Cl. 219—19.)

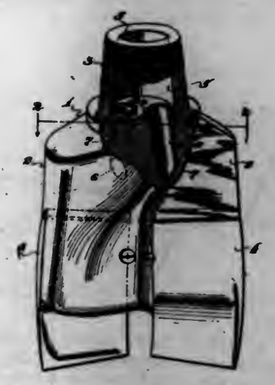


8. A heating attachment for windshields, comprising an elongated electrical heating element, a reflector at the side of the heating element remote from the windshield said reflector extending below and above said heating element, means including a suction cup at each end of the reflector for securely fastening the attachment to a windshield, and means for connecting the heating element to a source of electricity.

1,754,670. ARTIFICIAL FLOWER AND METHOD OF MAKING SAME. JAMES B. CROCKETT, Cambridge, Mass., assignor to Cambridge Rubber Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Dec. 24, 1927. Serial No. 242,526. 7 Claims. (Cl. 18—48.)

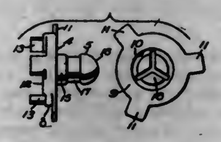
1. The method of producing leaves, petals or other parts for use in the manufacture of artificial flowers, which consists of laying a sheet of previously formed rubber containing vulcanizing agents and an ultra accelerator on to a suitably shaped impression or form and vulcanizing the same in applied position at normal or slightly elevated temperatures and atmospheric pressure.

1,754,671. DRILL BIT. JOHN DAHL, Dallas, Tex., assignor to Dahl Bit Corporation, Dallas, Tex. Filed June 15, 1928. Serial No. 285,521. 1 Claim. (Cl. 255—61.)



In a drill bit, a shank having angular bores and bushings in the bores having circular outwardly extending flanges on their upper ends and having depending projections on the under faces of the flanges, the bushings having their lower ends bevelled to lie flush with the periphery of the shanks, the bores at the upper ends thereof having lateral recesses to receive the projections, the recesses and projections being located and related so that when the projections lie in the recesses the bevelled ends of the bushings are held flush with the shank.

1,754,672. FASTENER. DIDRICK DYRSSEN, Malden, Mass. Original application filed July 21, 1927, Serial No. 207,413. Divided and this application filed Apr. 14, 1928. Serial No. 269,992. 8 Claims. (Cl. 24—213.)



1. A stud unit including a socket-engaging part and a casing part assembled with each other, said casing part including a tubular portion, a base provided by said socket-engaging part and located within said tubular portion of the casing part and attaching means provided at each end of the tubular portion for securing the stud unit to a suitable support, the attaching means at one end of the tubular portion being adapted to engage one side of the support and the attaching means at the other end being adapted to engage the opposite side of the support.

1,754,678. ICE-PICK HOLDER. JOHN H. ERNST, Jr., Brooklyn, N. Y. Filed May 29, 1926. Serial No. 112,451. 3 Claims. (Cl. 248—20.)



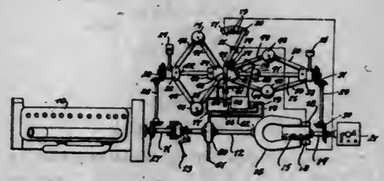
1. In a device of the character described a body portion, an angular portion at one end thereof, consisting of an outwardly turned portion of said body portion, and a sheaf and guide near the opposite end consisting of turned in edges of the body portion, said angular portion having an aperture through which a pointed implement such as ice pick may be passed and said aperture being substantially in line with the sheaf, and a downwardly and inwardly turned member adjacent the opening constructed and arranged to guide the point in the direction of the first named guide.

1,754,674. ILLUMINATED MOVING-PICTURE THEATER. DWIGHT FARNUM, Los Angeles, Calif., assignor of twenty-five per cent to William Conlogue Woodard and thirty-seven and one-half per cent to W. Hall Crowell, Los Angeles, Calif. Filed Apr. 18, 1927. Serial No. 183,394. 2 Claims. (Cl. 240—8.)



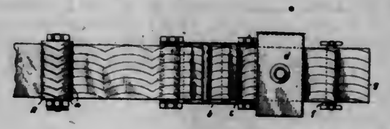
1. A moving picture theater having a screen at one end for exhibiting pictures, a ceiling having a structure formed with inverted stepped characteristics, lighting fixtures positioned in relation to the ceiling adjacent the angles of the steps, the downwardly extending part of the inverted steps casting a shadow on the screen whereby the screen is mained in a shadow and the ceiling, walls and floor of the main body of the theater has a general illumination.

1,754,675. ELECTROMAGNETIC TRANSMISSION. JOHN G. FRANK, Buffalo, N. Y. Filed May 3, 1928. Serial No. 274,736. 10 Claims. (Cl. 172—284.)



1. An electro-magnetic transmission including a driving shaft, a driven shaft, an electro-magnetic coupling between said shafts, a rheostat in circuit with said coupling, and fluid pressure means actuated through motion derived from said driving shaft for actuating said rheostat to cut out the resistance in said circuit to overcome the starting load and means for subsequently rendering said last named means inoperative.

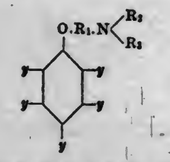
1,754,676. FRICTION BLOCK FOR BRAKES, FRICTION CLUTCHES, AND THE LIKE. HEINRICH CONSTANTIN GEORGI, Berlin-Zehlendorf-West, Germany, assignor to Deutsche Asbestwerke A.-G., Berlin-Zehlendorf, Germany, a Joint Stock Company. Filed May 11, 1929, Serial No. 362,312, and in Germany Dec. 12, 1927. 3 Claims. (Cl. 154—2.)



1. The herein described method of manufacturing friction blocks for brakes, friction clutches, and the like, which consists in cutting a sheet of fibrous material longitudinally into elongated strips each consisting of a series of coherent blanks of the desired form of the block, folding the said strips into piles of superposed blanks, and compressing the piles into a coherent block.

1,754,677. DIALKYLAMINO-ALKYLETHERS OF ALKYLOLPHENOLS. HANS HAHL, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Filed July 18, 1927, Serial No. 206,793, and in Germany July 29, 1926. 6 Claims. (Cl. 260—127.)

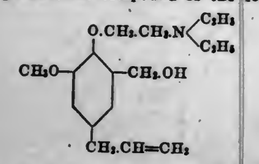
1. As new products the compounds of the general formula:



wherein one y stands for an alkylol group, the other y's for hydrogen, alkyl, alkylol or unsaturated aliphatic residues, R_1 for an alkylene radicle, R_2 and R_3 for alkyl radicles containing less than 3 carbon atoms each.

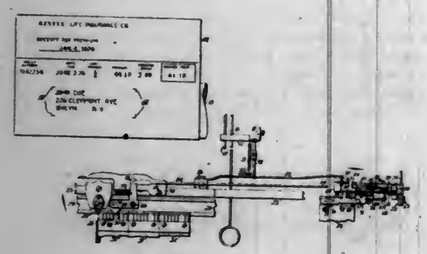
1,754,678. NEW DIALKYLAMINO-ALKYLETHERS OF ALKYLPHENOLS. HANS HAHL, Elberfeld, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Original application filed July 18, 1927, Serial No. 206,793, and in Germany July 29, 1926. Divided and this application filed May 16, 1928. Serial No. 278,343. 1 Claim. (Cl. 260—127.)

As a new product the compound of the formula:



which is a weakly yellow colored oil boiling under a pressure of 12 mm. at 213–215° C., giving a crystallized salt with hydrochloric acid and possessing valuable physiological properties.

1,754,679. COMBINED TYPEWRITING AND COMPUTING MACHINE. FREDERICK A. HART, New Britain, Conn., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1926. Serial No. 82,273. 8 Claims. (Cl. 235—59.)



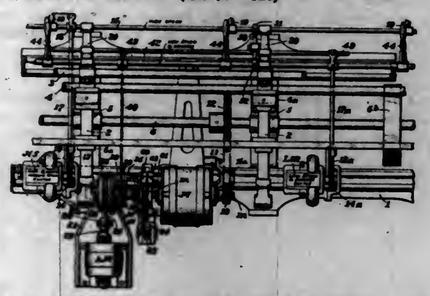
1. In a combined typewriting and computing machine including a carriage and a cross totalizer arranged to register numbers written across a work sheet in a plurality of columns, clearance proof mechanism including a tripper part, a part tripped thereby and means acting when said part is so tripped to test said cross totalizer for clearance, one of said parts traveling with said carriage, said parts being constructed and arranged to test said cross totalizer for clearance once during the travel of the carriage in letter feed direction and once during the return motion of said carriage.

1,754,680. FULL-FASHIONED-KNITTING MACHINE. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Apr. 29, 1927, Serial No. 187,614. Renewed Nov. 2, 1929. 25 Claims. (Cl. 66—82.)



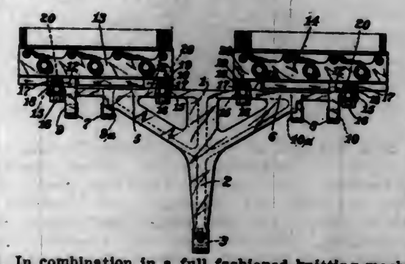
24. In combination in a full fashioned knitting machine, power means for driving the machine, automatic brake means for arresting the power drive when the power is cut off, and for releasing said power drive as a consequence of throwing the power on, and manually controlled means accessible to the operator at various stations along the machine front for throwing the power on and off, substantially as described.

1,754,681. FULL-FASHIONED-KNITTING MACHINE. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1928, Serial No. 317,046. Renewed Nov. 2, 1929. 27 Claims. (Cl. 66—82.)



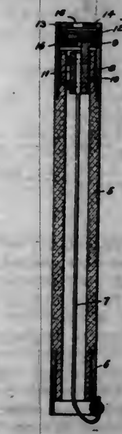
1. A full fashioned knitting machine having a slow speed motor and a high speed motor for driving it and a safety device for automatically locking either motor against operation until the other motor is thrown out of operation, substantially as described.

1,754,682. FULL-FASHIONED-KNITTING MACHINE. KENNETH HOWIE, Norristown, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Nov. 9, 1928. Serial No. 318,183. 2 Claims. (Cl. 66—82.)



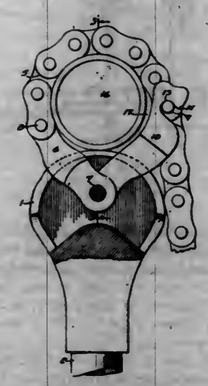
1. In combination in a full fashioned knitting machine, a support for the needles with means for reciprocating said support vertically and for moving the same forwardly and backwardly, and a pair of needle clamping bars on said support, said support having a pair of spaced apart openings for each needle bar, the members of each pair of openings being located near the ends of the bar to which they belong, and clamping bolts passing through the openings, said openings being larger in diameter than the diameter of the bolts to permit movement of adjustment of the bolts in all directions radially in respect to the axis of the openings, and means at each end of each bar for adjusting said bar, whereupon the clamping bolts may be set to hold the bar in its adjusted position, said clamping bolts forming the sole means of connecting the needle bar with its support and permitting adjustment of the bar bodily to or from the knitting plane, or pivoted movement in respect thereto or lengthwise adjustment.

1,754,683. FUSE. NORRIS C. HUSTED, Niles, Ohio. Filed July 24, 1925. Serial No. 45,813. 9 Claims. (Cl 200—127.)



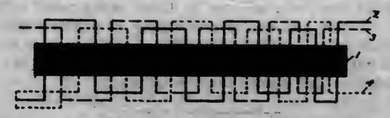
1. In an expulsion fuse, a hollow cylindrical body, terminals at each end of said body, a valve housing at the upper end of said body and connected to the upper terminal, a plug within said valve body and a fuse wire connected at its upper end to the valve body and at its lower end to the lower terminal.

1,754,684. WRENCH. OSCAR JOHNSON, New York, N. Y. Filed Mar. 5, 1927. Serial No. 173,163. 6 Claims. (Cl. 81—70.)



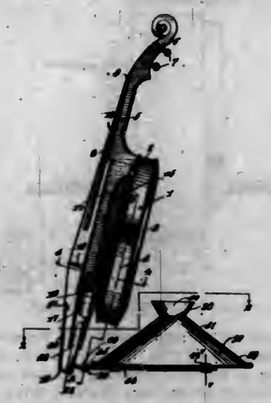
1. A wrench comprising, a head provided with an operating handle, a master link, a flexible member connected at one end to the master link, a locking member provided at one end with means to positively lock it with the flexible member, both the master link and the locking member being mounted upon the same pivot in the head, and said head having a gradually curved cam surface having points at different radial distances from the pivot.

1,754,685. ELECTRIC WINDING WITH VARIABLE PITCH. ABRAM S. KANTER, Moscow, Union of Soviet Socialist Republics, assignor to State Electrotechnical Trust, Moscow, Russia. Filed May 10, 1928, Serial No. 276,570, and in Germany Apr. 6, 1927. 2 Claims. (Cl. 172—290.)



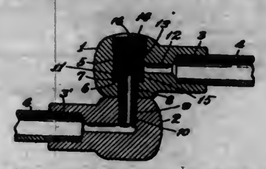
1. A polyphase motor element comprising the combination with a magnetic core, of an insulated multipolar polyphase winding, so distributed that the distance between consecutive phase belts increases progressively.

1,754,686. VIOLIN. HERMAN M. LENTZ, Renville, Minn. Filed Dec. 31, 1928. Serial No. 329,492. 6 Claims. (Cl. 84—294.)



1. In a stringed musical instrument of the violin type, a body, a finger-board supporting neck thereon having a hollow, resonant continuation extending from its inner end over the belly of the instrument body, the said continuation having a resonant sound-wave outlet extension, a tail unit associated with the extension and including an element for the connection of the strings of the instrument, a bridge upon the said neck continuation, the tail unit further including a vibratory arm of resilient metal, an amplifier, and means connecting the arm with the amplifier for transmitting tone vibrations thereto.

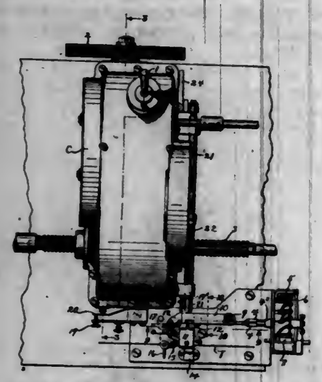
1,754,687. HOSE KNUCKLE. WILLIAM J. MACLELLAN, Bellflower, Calif., assignor of one-fourth to himself, one-fourth to G. W. Fournier, one-fourth to William M. Land, and one-fourth to Joseph H. Rogers. Filed Feb. 24, 1925. Serial No. 11,137. 1 Claim. (Cl. 285—103.)



A hose knuckle comprising two members adapted to receive the ends of hose sections and provided with elongated ports, one of said knuckle members being provided with a socketed bore of substantially uniform diameter and

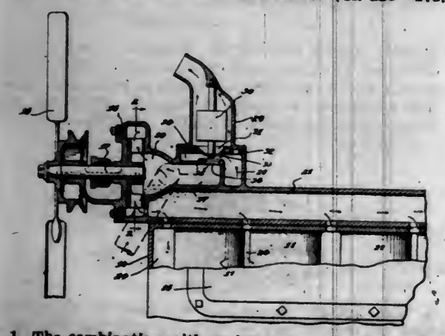
in communication with its port and extending through the knuckle and provided with an annular shoulder, a washer in the socket in engagement with the shoulder, a threaded seat formed in the other knuckle member in alignment with said socketed bore and in communication with its respective port, a pin having an axial opening extending throughout the length thereof, and provided with a flat head, said pin being passed through said washer in one of the knuckle members and screwed to the threaded seat in the other knuckle member, and having its head in engagement with said washer, a coil spring mounted in the socketed bore with one end in direct engagement with the head of said pin, and a screw plug of uniform diameter mounted in the outer end of said socketed bore in engagement with the other end of said spring whereby the compression on said spring may be adjusted.

1,754,688. MACHINE FOR REPRODUCING AND TRANSMITTING PICTURES. MAYNARD LESLIE DEEDES MCFARLANE, New York, N. Y., and HARRY GUY BARTHOLOMEW, London, England. Filed Oct. 7, 1926. Serial No. 140,048. 11 Claims. (Cl. 178—5.)



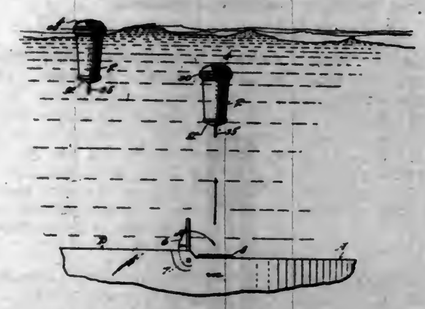
1. In a machine for reproducing and transmitting pictures, the combination of a threaded shaft, a revoluble member having an internal threading adapted to co-operate with the threading of the said shaft, a drive shaft, and connecting means intermediate said drive shaft and said externally threaded shaft, and between said drive shaft and said internally threaded member, whereby the said externally threaded shaft can be given a differential longitudinal movement.

1,754,689. COOLING SYSTEM. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Corp., Detroit, Mich., a Corporation of Michigan. Filed June 7, 1926. Serial No. 114,308. 15 Claims. (Cl. 123—173.)



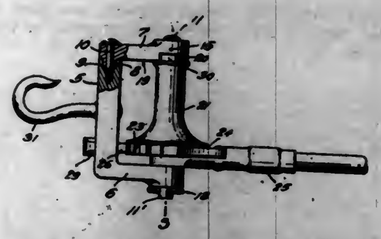
1. The combination with an internal combustion engine, of a cooling system therefor including, a water pump, means for initially conducting the cooling water therefrom longitudinally through a portion of the cylinder head prior to entering the cylinder jackets and means for returning the water to the said pump through the cylinder head.

1,754,690. SUBMARINE ESCAPEMENT APPARATUS. JOSEPH E. MARTIN and PERCIVAL A. MARTIN, Newark, N. J. Filed Feb. 16, 1928. Serial No. 254,728. 5 Claims. (Cl. 114—16.7.)



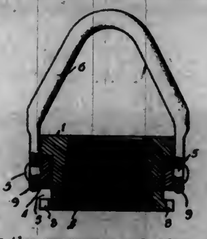
1. A submarine vessel including a hull having an interior compartment, a water-tight chamber within the hull having an aperture leading to the exterior of the vessel and an opening leading from said compartment, a water-tight closure for said aperture, a water-tight closure for said opening, a buoyant escapement housing within the said chamber comprising a lower body portion and a normally detached upper body portion, means for assembling said upper body portion to said lower body portion in a water-tight manner, means for admitting water to said chamber, means to eject said escapement housing through said aperture, and means for draining water from said chamber.

1,754,691. WINDLASS. OSKAR MELBYE, Sedro Woolley, Wash. Filed Jan. 17, 1929. Serial No. 338,040. 2 Claims. (Cl. 254—164.)



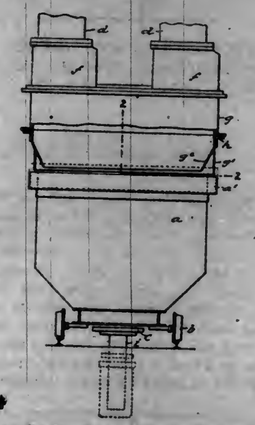
1. A windlass comprising, in combination, a U-shaped frame formed with a transverse bar and two apertured arms at the ends thereof, one of said arms being rigid with the bar and the other arm swiveled to the bar for movement in a plane longitudinal of the frame, said swivel connection comprising a boss rigid with the associated arm and rotatable in a recess provided in the bar, a slot provided in the inner side face of said swiveled arm, a transversely arranged shaft engaging in the apertures of both arms, a drum loosely mounted on said shaft, said drum being provided with a hub element adapted to be engaged by the swiveled arm within the slot thereof, an operating lever mounted upon the shaft, and pawl-and-ratchet devices for transmitting motion from the lever to rotate the drum.

1,754,692. BIT LIFTER. CHARLES S. MILLER, Ballinger, Tex. Filed Oct. 3, 1928. Serial No. 310,132. 5 Claims. (Cl. 294—86.)



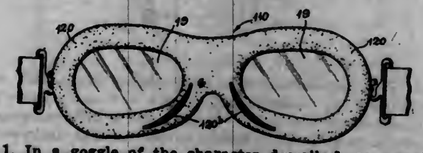
1. A device for the purpose set forth comprising a head having an internally threaded bore and an external annular groove, a yoke fitted within the groove and movable therein around the head, a bail swiveled upon the yoke, and means to lock the yoke to the head for movement therewith.

1,754,693. RETORT FOR THE DISTILLATION OF COAL AND OTHER SOLID CARBONACEOUS SUBSTANCES. CHARLES HENRY PARKER, Codsall, England, assignor to Low Temperature Carbonisation Limited, London, England. Filed June 4, 1927, Serial No. 196,599, and in Great Britain June 7, 1926. 2 Claims. (Cl. 214—18.)



1. Means for discharging retorts comprising an intermediate casing into which the retort residue passes on discharge therefrom, a downward annular extension from the said intermediate casing, a skip adapted to run on rails to bring the said skip beneath the said extension, an annular channel provided at the upper part of the said skip and adapted for the reception of a sealing substance and for the admission within it of the said annular extension, and means for raising and lowering said skip to cause the said extension to pass into and out of the said annular channel, substantially as described.

1,754,694. GOGGLES. HERMAN NEUWIRTH, Brooklyn, N. Y. Filed June 28, 1920. Serial No. 374,348. 3 Claims. (Cl. 2—14.)



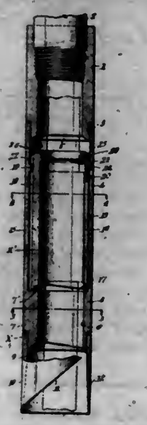
1. In a goggle of the character described, an annular cushioning member having a flexible fin projecting from the face contacting surface thereof adapted to contact with and shaped to conform to a depressed portion of the wearer's face.

1,754,695. SHOE-LASTING DEVICE. HERBERT H. ROOSA, Lincoln, Nebr. Filed Jan. 17, 1929. Serial No. 333,147. 4 Claims. (Cl. 12—107.)



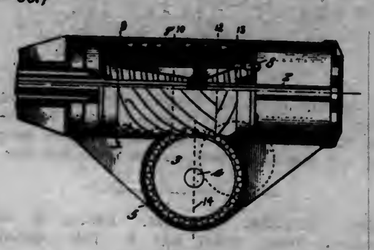
1. A shoe lasting device comprising a body portion substantially in the form of a relatively rigid plate, and a multiplicity of points attached thereto, said points being arranged to be forced through the upper by a blow struck on the body portion, for securing the upper temporarily in position during the lasting of the shoe.

1,754,696. FISHING TOOL. JOHN M. SAULS, Seminole Okla. Filed Dec. 4, 1928. Serial No. 323,618. 12 Claims. (Cl. 294—92.)



1. A fishing tool including a barrel, means associated with the barrel whereby the latter may be rotated to engage a "fish," means for locking said barrel and its associated means against relative movement, and means for forming a seal between the barrel and "fish."

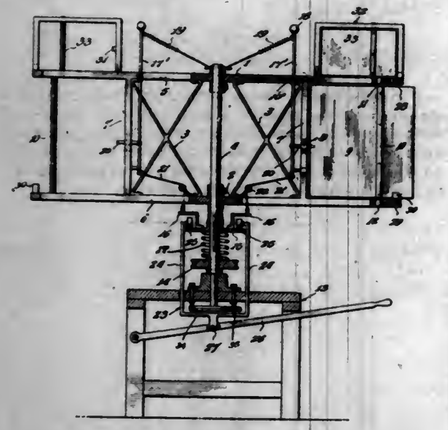
1,754,697. CHANGE-SPEED GEARING. ROMEO SAGLIONI, Caltagirone, Italy. Filed Apr. 11, 1927, Serial No. 182,816, and in Italy Apr. 14, 1926. 3 Claims. (Cl. 74—36.)



1. Change-speed gearing, comprising a driving shaft, a sleeve shiftable axially thereon in either direction and

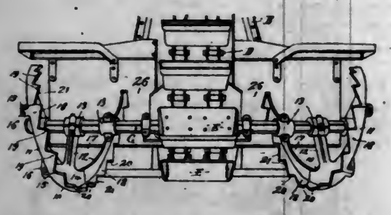
formed with a single one-piece screw of varying pitch, a driven shaft, a wheel secured to the driven shaft and provided with a set of teeth for engagement with said screw, and a spring constantly acting on one end of the screw sleeve to force it in one direction.

1,754,698. WIND MOTOR. WALTER S. SCHLOTZHAUER, Douglas, Ariz. Filed July 28, 1927. Serial No. 209,055. 4 Claims. (Cl. 170—26.)



1. A wind motor including a drive shaft, hubs carried by the shaft, spokes carried by the hubs, standards connecting the spokes and having guides carried thereby, vanes pivotally connected between the spokes, latch bars slidable in the guides for engaging the vanes to arrest the swinging movement thereof, levers pivotally connected to certain of the spokes and with the latch bars, yieldable connections between the shaft and levers, said levers being operable by centrifngal force to withdraw the latches to permit free swinging of the vanes, and independent means for swinging the levers for disengaging the latches from the vanes.

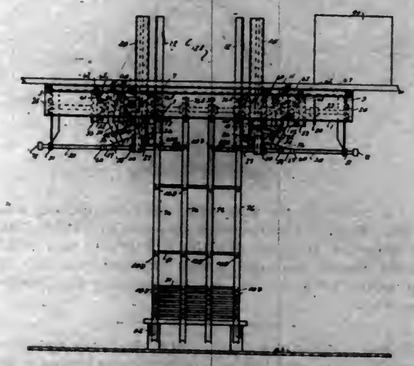
1,754,699. LOADING MACHINE. LOUIS F. SNYDER, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed May 1, 1929. Serial No. 359,512. 12 Claims. (Cl. 37—190.)



1. A feeding device for loading machines including a rotatably mounted spirally disposed radial feeding web portion having a lateral flange at the outer periphery thereof, and said flange having teeth in its free edge.

1,754,700. VENEER STACKER. EMMET G. STACK, Marshfield, Oreg. Filed Mar. 6, 1928. Serial No. 259,512. 13 Claims. (Cl. 214—6.)

1. A machine for building loads of veneers and the like, comprising: a base; a series of stock hoppers suspended therefrom and adaptable to receive stock at their upper end; means adjacent to their lower end operable to discharge the stock simultaneously from the several hoppers in predetermined quantities; means whereby stickers are



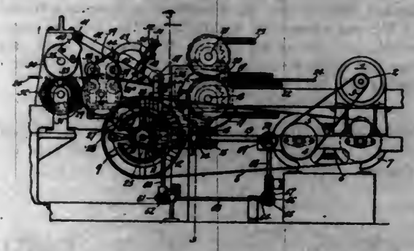
placeable where wanted to receive the discharged stock; two spaced drive shafts carried by the base; a series of lowering means depending from the drive shafts in operable relation whereby the stickers and imposed stock are positioned in the load being built.

1,754,701. RECEDE AND SET WORKS. EMMET G. STACK, Marshfield, Oreg. Filed May 22, 1928. Serial No. 279,741. 6 Claims. (Cl. 143—114.)



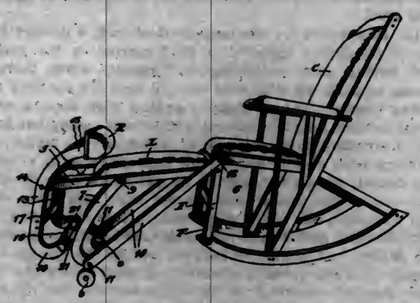
1. In a sawmill carriage recede and set in combination with the headblocks and knees and the set shaft for moving the knees, a driving means including: a driving sprocket operating the set shaft; an idler sprocket mounted on means pivoting about the axis of the driving sprocket and engaging a chain supported by its ends parallel to the travel of the sawmill carriage, so that said means and the idler sprocket may be operated to raise the chain into engagement with the teeth of the driving sprocket whereby the chain acts as a rack for the driving sprocket during the movement of the carriage in either direction.

1,754,702. WEB-CUTTING MACHINE. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor to George W. Swift, jr., Inc., Bordentown, N. J., a Corporation of New Jersey. Filed Nov. 30, 1928. Serial No. 322,986. 23 Claims. (Cl. 164—68.)



1. The combination with web-cutting mechanism and mechanism for feeding a web thereto, said mechanisms being adapted to be cooperatively operated at different speeds, of means variable with changes in speed of said mechanisms for varying the amount of web extending between the web-feeding and web-cutting mechanisms.

1,754,703. FRONT-PROPELLING ROCKING-CHAIR. EDGAR L. SWINDLER, San Antonio, Tex., assignor of one-third to Nettie Lillian Swindler, San Antonio, Tex. Filed May 28, 1929. Serial No. 365,371. 6 Claims. (Cl. 155—70.)



1. In combination with a rocking chair; a leg support extending forwardly from the chair and having longitudinal side bars, two legs pivoted at their upper ends to said side bars on transverse axes, floor-engaging rollers on the lower ends of said legs, two rearwardly inclined bars pivoted on transverse axes to the lower ends of said legs, and means pivoting the rear ends of said inclined bars and the rear ends of the aforesaid side bars to the upper front portion of the rocking chair on transverse axes.

1,754,704. SWIMMER'S DEVICE. JOHN L. WILCOX, Seattle, Wash. Filed May 7, 1928. Serial No. 275,612. 1 Claim. (Cl. 9—21.)



As a new article of manufacture, a swimming mit of sheet metal or other like stiff material and comprising a body portion of a general oblong shape with an extension at one end thereof to engage the wrist of the wearer, said body portion being formed with an air tight chamber therein of less length and width than the length and width of the body to provide marginal flanges at the front and side edges respectively of the body, a bridge member rigid with the body and extending transversely thereof and in spaced relation therewith to receive the hand and permitting freedom of movement to the thumb and fingers of the hand, and means provided upon the body extension for firmly securing the same to the wearer's wrist.

1,754,705. RAILWAY CAR. WILLIAM E. WINN, Toledo, Ohio. Filed May 19, 1928. Serial No. 279,019. 19 Claims. (Cl. 105—228.)



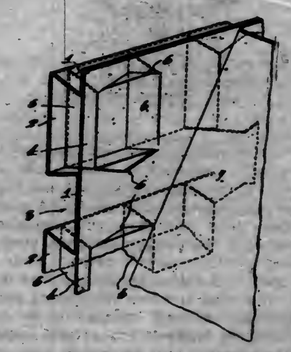
1. A railway car body bolster having portions adapted to be secured to opposite sides of the car center sill and provided with top and bottom plate members and with a plurality of transverse webs connecting the plate members, the webs and plate members being provided with marginal flanges.

1,754,706. HANDLE FOR MANUALLY-PROPELLED IMPLEMENTS. CHARLES A. XARDELL, Utica, N. Y., assignor to The Bossert Corporation, Utica, N. Y., a Corporation. Filed Nov. 27, 1925. Serial No. 71,681. 1 Claim. (Cl. 287—54.)



In a two-piece, T-shaped handle the combination of a main handle consisting of one piece of sheet metal formed into a tube with opposite portions of the tube cut away at the upper end of the handle and forming edges in the line of the main handle adapted to receive the thrust from a cross handle and with the remaining portions of the main handle at that end extended and meeting and secured to each other forming an eye and a cross handle consisting of one piece of sheet metal formed into a tube and permanently and rigidly secured in said eye and seating directly against said edges whereby end thrust is transmitted directly to a longitudinally extending portion of the main handle, said cross-handle being pre-formed to have its central portion closely fit within the eye of the main handle and to have portions of enlarged diameter immediately beyond the eye to prevent longitudinal movement of the cross-handle relative to the eye.

1,754,707. MATERIAL FOR BUILDING AND OTHER PURPOSES. LUDWIG S. BAIRD, Portland, Oreg. Filed Jan. 19, 1929. Serial No. 333,601. 16 Claims. (Cl. 72—116.)



15. In material of the class described, a sheet having parallel corrugations constituting alternate ribs and

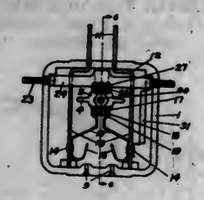
grooves, a reinforcing sheet over one face of said corrugated sheet, flaps carried by said reinforcing sheet and projecting into said ribs and lying transversely thereof, thereby providing spaced transverse partitions in the length of the ribs.

1,754,708. APPARATUS FOR CLEANING AUTOMOTIVE POWER PLANTS. IRA J. BEVINS, Chicago, Ill. Filed Apr. 5, 1926. Serial No. 99,788. 1 Claim. (Cl. 299—107.)



In a jet nozzle, a hose bibb, a substantially rigid tube extending from the end of said bibb, said bibb having a portion of lesser diameter than its main body to which the fluid conductor hose may be attached and a central bore extending therethrough, said central bore serving as a fluid duct to and as a mounting for said tube, said rigid tube having a straight portion adjacent its attachment to said bibb an outwardly curved portion at the end of said straight portion, a reverse curved portion extending from said outwardly curved portion and a terminal portion relatively shorter than any of the aforesaid portions and angularly offset from the common plane of said curved portions.

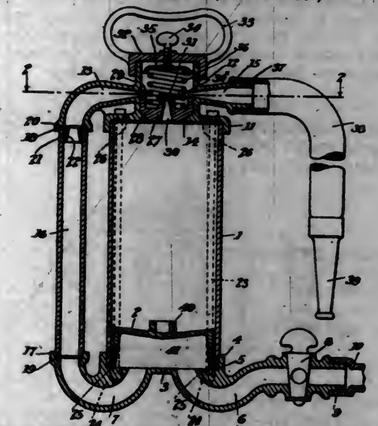
1,754,709. COMBINATION CONNECTER AND LIGHTNING ARRESTER. LEON S. BEACH, East Orange, N. J. Filed June 11, 1929. Serial No. 370,084. 20 Claims. (Cl. 175—80.)



1. An arrester including a two-part casing of insulating material, a metallic stud passing through said casing and serving to hold the two parts together as well as a grounding stud, a pair of spaced metallic members disposed within the casing away from said stud, but having associated contacting members extending toward the stud and supporting a piece of silicon carbide between their ends and against said stud, said casing having openings in one wall thereof, said contacting members also having portions disposed in alignment with said openings to be engaged by sliding plug members inserted through said openings, said metallic members having ends protruding from the casing for engagement with a lighting socket member, a metallic member extending across the interior part of the casing but spaced from said stud and said pair of metallic members, contact studs connected to the ends of said cross member and protruding through the casing to receive the incoming and outgoing ends of an antenna circuit, an arm extending from said cross member terminating in a holder, and a piece of silicon carbide carried in said holder against said stud.

10. In a device for the purpose described, a divided casing of insulating material, a stud carried by the casing and having ends projecting on opposite sides thereof, means cooperating with said ends to hold the parts of the casing together and to clamp a ground wire thereto, electrical contact members housed within said casing but having protruding parts, certain of which are to make connections with an antenna circuit and others with a lighting circuit, means for passing an extension plug through the wall of the casing into contact with said other contact members, and spark gap means within the casing for both circuits, said means including said stud as a grounding device, and a filter condenser within the casing connected from the antenna circuit to at least one of the contact members adapted to be connected to the lighting circuit.

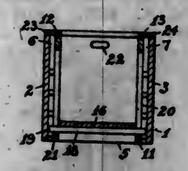
1,754,710. HYDRAULIC SPRAYER. JOHN D. DAVENPORT, Laurel Canyon, Calif. Filed Apr. 23, 1928. Serial No. 272,206. 3 Claims. (Cl. 299—85.)



1. A mixer and spray comprising a solution cylinder, a piston in said cylinder above which solution is placed, the lower end of said cylinder being formed with an inlet and an outlet, a mixing chamber on the upper end of said cylinder provided with an inlet and an outlet, a pipe connecting the cylinder outlet and the inlet of the mixing chamber, a valve in said mixing chamber provided with a port leading from the upper end of said cylinder into said mixing chamber, means for restricting the passage in said pipe to provide a back pressure in the lower end of said cylinder to raise the piston and force solution from the cylinder through said port into the mixing chamber when water under pressure is allowed to pass through said cylinder inlet, the lower end of the cylinder, cylinder outlet, said pipe, said mixing inlet, mixing chamber and mixing outlet, whereby the solution is mixed in said chamber and forced out through said mixing chamber outlet, a spring for normally holding said valve below said inlet and said outlet of said mixing chamber, and means on said piston for engaging said valve and moving it against the tension of said spring to close the inlet and outlet of said mixing chamber when all the solution in said cylinder is forced therefrom.

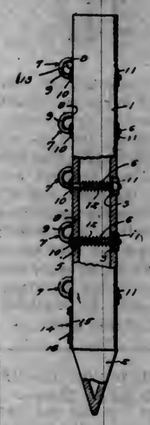
1,754,711. DISPLAY CASE. BERNARD R. GAY, Cleveland, Ohio. Filed Nov. 12, 1917. Serial No. 282,841. 6 Claims. (Cl. 217—64.)

6. In a display case, the combination of a frame, a case within the frame, the case being adapted to move forwardly and vertically relative to the frame, the case having a vertically movable bottom, the frame having racks at its rear end and near its forward end, the racks extending in a forward horizontal direction, said bottom being fixed to transverse beams, the ends of the beams ex-



tending beyond the edges of said bottom and adapted to rest upon said racks, the case having slots for receiving said extending ends of said beams, and the lower ends of said slots serving to support the extending ends of said beams for causing movement of said bottom when said case is lifted vertically.

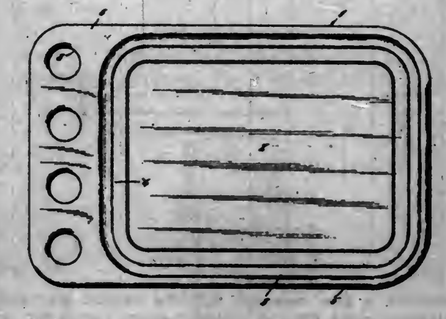
1,754,696. FISHING TOOL. JOHN M. SAULS, Seminole, GARTNER, Carroll, Nebr. Filed Feb. 14, 1929. Serial No. 339,987. 3 Claims. (Cl. 256—54.)



2. The combination with a fence post body, of a wire holder comprising a substantially J-shaped bolt having the long side thereof reciprocably extended through the post body, a nut carried upon the terminal of said long end and slidably mounted in one wall of the body, and a spring surrounding the bolt and interposed between said nut and an opposite wall of the body and acting to draw the hooked end of the bolt against an outer face of the body to maintain a fence wire in position thereagainst, said nut being mounted to reciprocate with the bolt in an aperture in the wall of the post of the same configuration as and snugly receiving itself.

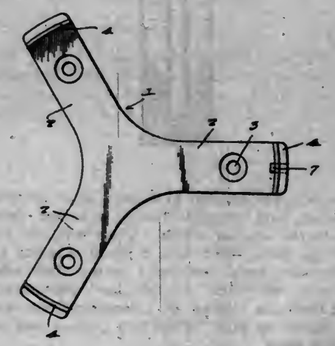
1,754,713. SERVING TRAY. CLIFTON H. GREEN, Nashville, Tenn. Filed Dec. 18, 1928. Serial No. 325,830. 1 Claim. (Cl. 65—53.)

In a serving tray of the class described, a bottom of substantially rectangular shape, upstanding side and end walls connected together at their adjacent ends to form a continuous rim, a lateral extension formed on the upper edge of one of the walls and extending for the full length thereof, said extension being provided with a series of spaced ice cream cone receiving and supporting openings, the upper edges of the remaining walls being rolled, the edge of the extension being rolled, the upper face of said



extension lying in the same horizontal plane with the upper edge portion of each of the walls that extend upwardly from the bottom of the tray.

1,754,714. BRACKET. LORENZ GUNDRUP, Springfield, Ill. Filed Feb. 23, 1926. Serial No. 90,220. 1 Claim. (Cl. 248—20.)

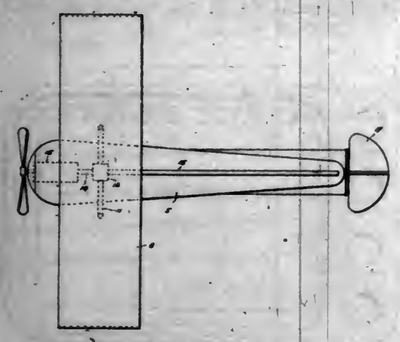


As a new article of manufacture, a bracket constructed from a single piece of metal and including a central portion, and a plurality of equi-distantly spaced arms extending radially from the central portion, the arms and the central portion all being disposed in the same horizontal plane, an upstanding ear formed on the outer end of each arm, the inner face of each ear being curved, one of the upstanding ears being of greater height than the other ears, and a stationary transverse pin extending inwardly from the longer ear and disposed in a plane above the upper edges of the other ears as and for the purpose described.

1,754,715. AEROPLANE. ISAAC E. HANSON, Oklahoma City, Okla. Filed Apr. 9, 1928. Serial No. 268,571. 2 Claims. (Cl. 244—31.)

1. In an aeroplane of the class described, a fuselage, a pair of wings mounted on the fuselage, air chambers on the wings, pipes connecting the air chambers, branches

leading inwardly from the pipes, an exhaust pipe, a drum about the exhaust pipe with which the branches com-



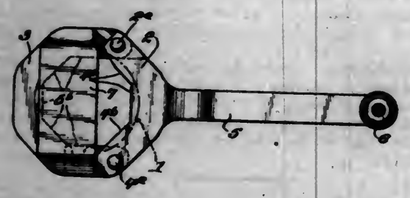
municate, a pipe connected with the exhaust pipe and extending along the top of the fuselage rearwardly to terminate at the rear end thereof.

1,754,716. ANTICATHODE FOR DISCHARGE TUBES. GILLES HOLST, GOTTFRIED BRUNO JONAS, and ALBERT BOUWERS, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed Mar. 8, 1926, Serial No. 93,174, and in the Netherlands Apr. 17, 1925. 5 Claims. (Cl. 250—35.)



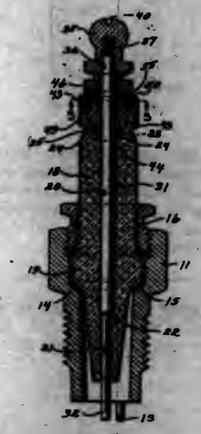
1. An electrode adapted to be used as an anticathode in X-ray tubes, said electrode having a hollow chrome-iron portion to the edge of which a glass wall can be sealed, said portion being filled with a metal of great heat conductivity, said metal bearing a metal block adapted to emit X-rays, the metal of great heat conductivity being shut off from the interior of a discharge tube when used therein partly by said chrome-iron portion and partly by said metal block.

1,754,717. HUB-CAP WRENCH. ROBERT L. HUGHENS, Atlanta, Ga. Filed Apr. 29, 1929. Serial No. 358,884. 1 Claim. (Cl. 81—98.)



A wrench for hub caps having a handle and diverging arms forming jaw faces extending therefrom, an outer substantially U-shaped member having jaw faces on its inner side and pivoted at one end to one of said diverging arms, the other end of said U-shaped member adapted to be locked to the other of said diverging arms, said U-shaped member having a bridge integrally attached thereto in offset relation to the open space of the jaws of said U-shaped member on opposite sides thereof.

1,754,718. SPARK PLUG. EARL J. JOHNSON, Silverbow, Mont. Filed Feb. 11, 1927. Serial No. 167,556. 2 Claims. (Cl. 123—169.)



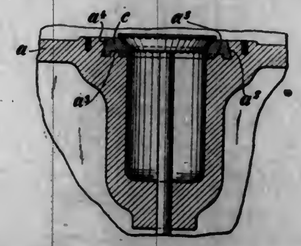
1. A spark plug, an insulating core having an axial way therethru and elongated keyways extending longitudinally of and opening into the way at the outer end of the core, a stem removably extending thru the way, and retaining means for the stem comprising a plug embodying elongated keys slidably fitting in said keyways with the outer ends of the keys flush with the outer end of the core and an externally threaded extension projecting past the outer ends of the keys, a retaining cap embodying a plate portion in overlying engagement with the outer ends of the keys and a ring portion for crimped engagement circumferentially of the core, and a terminal head carried by the outer end of said stem for threaded connection with the threaded extension of said plug.

1,754,719. WATERSHED FOR DOORS AND METHOD OF MAKING IT. LOUIS H. LEHMAN, Philadelphia, Pa. Filed Sept. 27, 1926. Serial No. 137,837. 4 Claims. Cl. 20—16.)



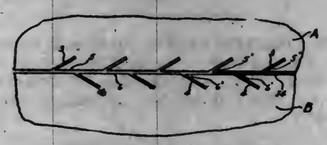
1. A water shed for doors, comprising a body portion having upwardly extending spaced flanges, one of which is slotted, the top face of said body portion inclining laterally and towards one end of the water shed.

1,754,720. EXPANDED VALVE SEAT. AUGUST H. LEIPERT, College Point, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Original application filed June 5, 1928, Serial No. 282,988. Divided and this application filed May 4, 1929. Serial No. 360,361. 4 Claims. (Cl. 251—167.)



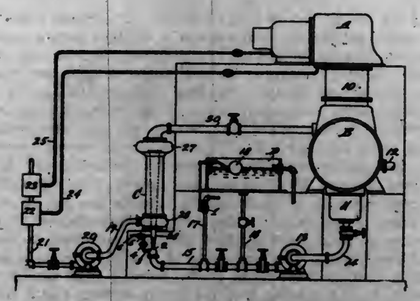
3. A valve seat construction comprising a cylinder casting formed with an annular groove, an undercut portion formed in the vertical wall of the groove, a rib formed on the horizontal walls of the groove and protruding thereinto, and a valve seat in the groove.

1,754,721. METHOD OF WELDING. WALTER R. LINDEN, Palisades Park, N. J., assignor to The Linde Air Products Company, a Corporation of Ohio. Filed Mar. 9, 1926. Serial No. 93,518. 12 Claims. (Cl. 113—112.)



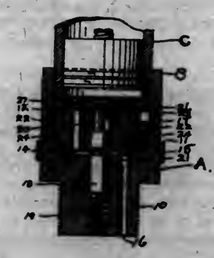
1. A method of butt-welding metal sheets that comprises cutting slots at intervals into the sheet edges to be united; disposing such slotted edges in opposed relation with the open ends of the slots in one sheet opposite the tongues formed between the open ends of the slots in the other sheet; and depositing weld metal along such opposed edges and in said slots.

1,754,722. EVAPORATING OR DEGASIFYING APPARATUS. CHARLES E. LUCKE, New York, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 3, 1925. Serial No. 47,671. 7 Claims. (Cl. 183—2.5.)



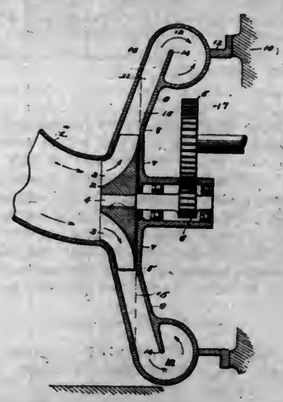
1. A degasifier having a vertical tube with a receiving water inlet at the lower end, a vapor and gas chamber at the upper end and into which the tube opens, means for carrying off the vapor and gas from said chamber and maintaining a predetermined pressure therein, a steam inlet for supplying heating steam to the water column, and means for controlling the amount of steam supplied to the water column in accordance with the water flow to the tube.

1,754,723. GREASE-GUN CONNECTION. ROBERT E. MCGAHEY, Alexandria, Va. Filed Oct. 16, 1928. Serial No. 312,813. 4 Claims. (Cl. 284—4.)



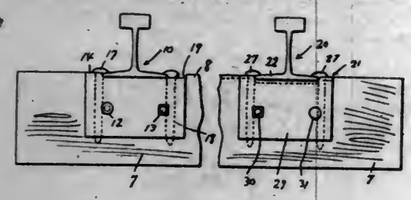
1. A grease gun connection comprising rotatably separable units, one unit providing a conduit, a valve mounted to slide longitudinally of the unit and transversely across the conduit and to open and close said conduit at the limits of its movement, a spindle carried by said valve and extending slidably through one of said units, means carried by the other unit for engaging the spindle and moving the valve, said last mentioned unit having a passage at all times in communication with the conduit at any relative rotary position of the parts.

1,754,724. SUPERCHARGER CONSTRUCTION. GEORGE J. MEAD, Hartford, Conn., assignor to The Pratt & Whitney Aircraft Co., Hartford, Conn. Filed Oct. 18, 1926. Serial No. 142,332. 4 Claims. (Cl. 230—127.)



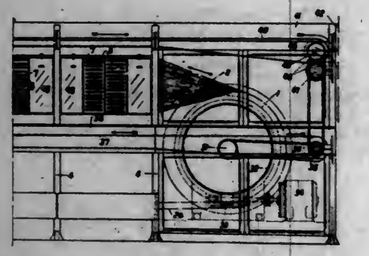
1. A supercharger for internal combustion engines including a diffuser casing, a fuel inlet pipe, an impeller within the diffuser casing, a shaft for the impeller, and speed multiplying gearing for the impeller shaft, the said diffuser casing slanting from the fuel inlet pipe toward said gearing, the said impeller terminating within the inner and outer extremities of the diffuser casing in such manner that the line of vertical axis of the impeller crosses the diffuser casing at a point intermediate the inner and outer extremities thereof, and beyond the impeller therein, for the purposes set forth.

1,754,725. RAIL CHAIR. JOHN M. POWERS, Valley Falls, N. Y. Filed June 18, 1929. Serial No. 371,843. 1 Claim. (Cl. 238—299.)



A rail chair of the character described comprising a web portion having transversely extending slots adjacent its longitudinal marginal sides for the passage of anchoring spikes, said web portion being further provided, on its upper face, with a longitudinally extending raised marginal portion providing a rail engaging shoulder intersecting the respective slot, all of the slots being of a size to permit the spikes to be shifted therein to permit the rail to be shifted laterally and secured in shifted position on the web portion.

1,754,726. APPARATUS FOR SORTING LETTERS, PACKETS, AND OTHER ARTICLES. ALEXANDER GEORGE STRATHERN, Glasgow, Scotland. Filed May 2, 1929, Serial No. 359,978, and in Great Britain May 18, 1928. 3 Claims. (Cl. 198—42.)



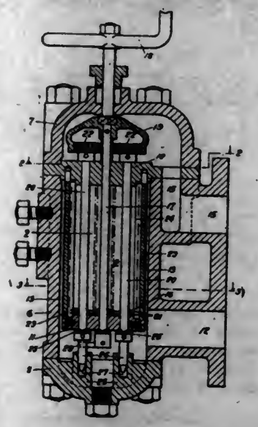
1. Apparatus for sorting letters, packets or other articles comprising a housing provided with a series of slotted grids, a driving pulley at one end of said housing, a plurality of endless bands arranged in superposed relation upon said pulley and diverging from the upper side of said pulley so that the upper flights of said bands are spaced apart, said upper flights extending substantially horizontally along said housing opposite the slots in said grids, and chutes located at the return bends of said bands for collection of letters or the like delivered by said bands.

1,754,727. SEALING COMPOUND. HENRY B. SWAAB, Philadelphia, Pa. Filed May 16, 1929. Serial No. 363,719. 5 Claims. (Cl. 106—8.)

5. A composition for sealing joints comprising a body material consisting of asbestos, molasses and a preservative.

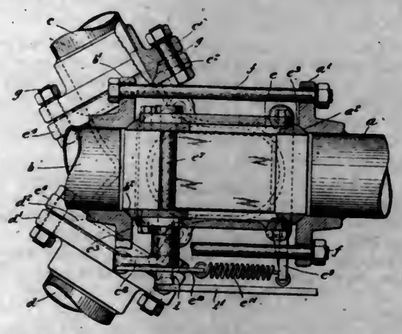
1,754,728. FILTERING OR LIKE DEVICE. HERBERT ALEXANDER THOMPSON, Morpeth, England, assignor of one-half to Swinney Brothers Limited, Morpeth, England, a Corporation of Great Britain. Filed Feb. 14, 1929, Serial No. 339,976, and in Great Britain Jan. 17, 1929. 4 Claims. (Cl. 210—152.)

1. In a filter device, the combination of a plurality of annular laminations spaced along a main spindle, said laminations being movable axially of but rotatable with said main spindle, a subsidiary parallel spindle mounted internally of said laminations in fixed bearings, scraper elements which are movable axially on said subsidiary spindle but rotatable therewith, said scraper elements



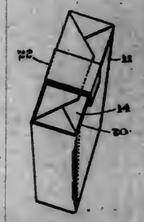
being arranged to extend into the spaces between said laminations, means applying a suitable tension to the assembly of laminations and scraper elements, and means interconnecting said spindles to provide synchronous rotational movement thereof.

1,754,729. HEATER VALVE. HAROLD G. TRAVER, Allentown, Pa., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 10, 1926. Serial No. 128,342. 1 Claim. (Cl. 137—69.)



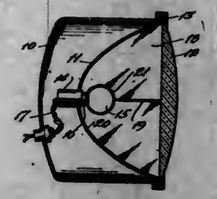
In a device for directing the flow of exhaust gases in a motor vehicle, in combination, a straight hollow center section, flanges on and surrounding said section near the ends thereof, convexly curved faces of circular cross-section on the flanges, straight aligned sections of an exhaust pipe at opposite ends of the center section and normally in line therewith, flanges on and surrounding said pipes near the ends thereof, concavely curved recesses on the last-named flanges normally receiving the first-named flanges in abutment throughout their respective curved surfaces, bolts connecting the flanges on the said sections of the exhaust pipes through holes formed in the flanges to hold them against the center section to make gas-tight joints, the diameters of the bolts being appreciably smaller than those of the holes, a pipe rigidly attached to and opening into the center section, and a valve means in the center section adapted to direct exhaust gases either through said last-named pipe or straight through the aligned sections of the exhaust pipe.

1,754,730. CIGARETTE PACKAGE. JOHN H. VAN SICKELS, Montreal, Quebec, Canada, assignor to British-American Tobacco Company Limited, New York, N. Y., a Corporation of England. Filed Mar. 12, 1927. Serial No. 174,820. 4 Claims. (Cl. 206—46.)



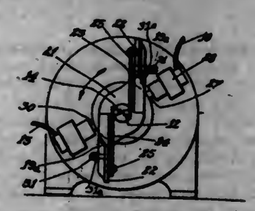
1. A cigarette package comprising inner and outer flexible paper sheets folded to provide wrappers completely enclosing the cigarettes, the outer wrapper being provided with a preformed notch through which one corner only of the inner wrapper is exposed whereby the tearing of the inner wrapper to expose the cigarettes is facilitated.

1,754,731. HEADLIGHT. ALBERT J. WALKER, Hamilton, Ontario, Canada. Filed May 23, 1929. Serial No. 365,328. 4 Claims. (Cl. 240—48.2.)



1. The combination with a headlight reflector; of a pair of partitions intersecting each other at right angles and fitted in the reflector with the line of intersection coaxial with the reflector, said partitions being connected to fold flat one on the other throughout their extent.

1,754,732. ELECTRICAL VOLTAGE REGULATOR. CHARLES WOLF, Worcester, Mass. Filed Apr. 6, 1928. Serial No. 267,912. 11 Claims. (Cl. 171—229.)



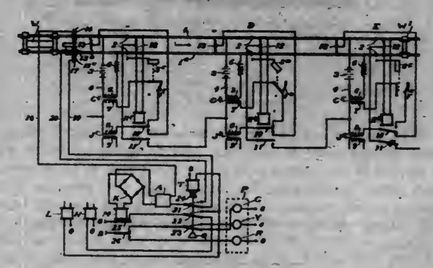
1. In a voltage regulating apparatus, a power supply circuit, a generator supplying said circuit, a field circuit for said generator, means for varying the value of the strength of the generator field including a pair of relatively movable yieldingly supported contact members and a rotary element with said contact members symmetrically disposed thereon with respect to the axis of rotation of said element and with both of said members movable away from each other in response to an increase in the centrifugal force developed by the rotation of said element.

1,754,733. AEROPLANE GLIDER FUSELAGE. LESTER N. YOHE, New Oxford, Pa. Filed Apr. 27, 1929. Serial No. 358,684. 7 Claims. (Cl. 244—30.)



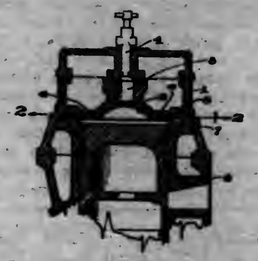
1. In an aircraft, a stream line fuselage having a concaved lower side, and laterally projecting airfoils having their lower surfaces at their inner ends aligning with the side edges of the concaved lower side of the fuselage.

1,754,734. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. WALTER P. ALLEN, Jersey City, N. J., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1926. Serial No. 141,974. 7 Claims. (Cl. 246—63.)



1. Railway traffic controlling apparatus comprising means for at times supplying alternating current to the track rails in series but not in multiple, and for at other other times supplying alternating current to the track rails in multiple but not in series, apparatus on a train receiving energy from the track rails and including a manually operable member for conditioning the apparatus to be effectively responsive to current flowing in the track rails in series or to current flowing in the track rails in multiple, and governing mechanism on the train controlled by said apparatus and arranged to retard the train unless the apparatus is conditioned to respond to the current flowing in the track rails at the point occupied by the train.

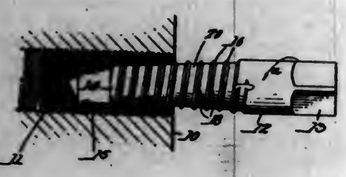
1,754,735. INTERNAL-COMBUSTION ENGINE. JAMES C. BARNABY, Westerleigh, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Dec. 30, 1927, Serial No. 243,509. Divided and this application filed July 27, 1929. Serial No. 381,594. 5 Claims. (Cl. 123—32.)



1. An internal combustion engine including a cylinder a cylinder head and a piston and having a combustion

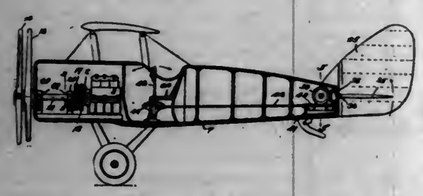
chamber therein of less diameter than the cylinder bore, said cylinder head provided with a plurality of angularly disposed grooves in its under surface opening out at their inner ends into the said combustion chamber, said piston and cylinder head co-operating towards the end of the compression stroke to force gas from the perimetric portion of the cylinder through said grooves into said combustion chamber.

1,754,736. SCREW EXTRACTOR. ELMER J. BRYANT, Greenfield, Mass., assignor to Greenfield Tap & Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Dec. 28, 1929. Serial No. 417,217. 6 Claims. (Cl. 81—71.)



1. A screw extractor comprising a shank having a tapered end portion, said end portion being provided with a thread of the opposite hand to the screw to be extracted and being longitudinally fluted, and the threads being spaced apart on said end portion to provide a spiral tapering blank surface of substantial widths between the threads.

1,754,737. AEROPLANE. WILLIAM EDWARD BURKS, Kerrville, Tex. Filed July 21, 1928. Serial No. 294,471. 1 Claim. (Cl. 244—29.)



The combination with a fuselage and a rudder mounted to swing laterally relative thereto, of a transverse shaft extending loosely through the rudder and journaled on the fuselage, elevators carried by the end portions of said shaft and at opposite sides of the rudder, said elevators being spaced to permit lateral swinging of the rudder, a gear secured to and rotatable with the transverse shaft, a guide fixedly mounted in the fuselage, a rack mounted to slide in the guide, an intermediate gear constantly in mesh with the gear on the shaft and with the rack for transmitting motion from the rack to the shaft, an actuating lever, and means extending straight from the lever to the rack for transmitting motion to the rack and the parts actuated thereby.

1,754,738. GAME. EUGENE F. CALLE, Brooklyn, N. Y. Filed Apr. 20, 1928. Serial No. 271,524. 5 Claims. (Cl. 273—130.)

1. A game including a series of cards, each bearing indications so arranged that when connected in predetermined sequence the outline of a figure will be formed, each indication having an identifying character, dice, and a

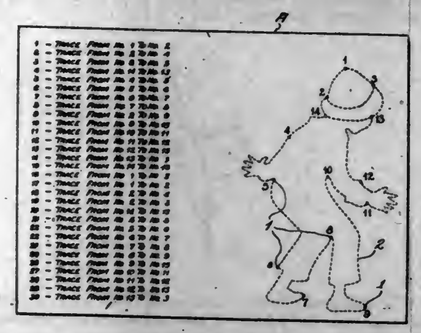
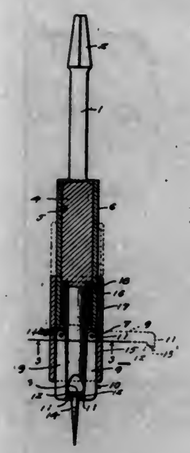


table on each card containing the sums of possible casts of the dice and the values thereof in terms of indications to be connected.

1,754,739. SCREW-HOLDING SCREW DRIVER. JOSEPH E. CALVERT, Livingston, Mont. Filed July 16, 1929. Serial No. 378,778. 2 Claims. (Cl. 145—52.)

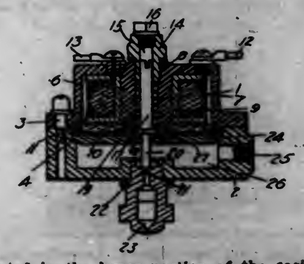


1. A screw holding screw driver, comprising a driver shank having a threaded portion, a sleeve having threaded engagement with said portion for movement longitudinally of the shank, screw holding elements carried by the sleeve adjacent the working end of the shank, and an outer sleeve shiftable on and longitudinally of the first sleeve for engaging and holding the screw holding elements in a desired position, said outer sleeve having limited movement upon the first mentioned sleeve controlled by a pin carried by one of the sleeves slidably engaging in a slot in the other sleeve.

1,754,740. MAGNETIC VALVE. ALICK CLARKSON, Stratford, Ontario, Canada, assignor to Brooks Steam Motors, Limited, Stratford, Ontario, Canada, a Company of Canada. Filed Oct. 6, 1928. Serial No. 310,846. 3 Claims. (Cl. 137—139.)

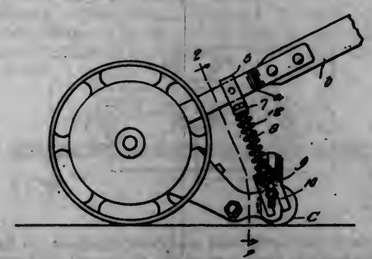
1. A liquid fuel valve comprising a casing, an electromagnet located in the upper portion of the casing, a core forming part of the casing extending through the magnet

and having a central orifice, a spring resisted stem supported within the orifice, an extension to the stem forming a needle valve, a needle valve seat coacting with the needle



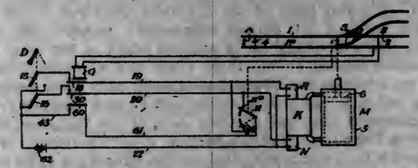
valve located in the lower portion of the casing, a disc armature engaging the stem when drawn upward by the magnet and a spray nozzle carried by the casing through which the oil is fed from the valve seat.

1,754,741. PRESSURE-EXERTING ATTACHMENT FOR LAWN-MOWER ROLLERS. POPE COBB and ARTHUR S. ROSE, Brownsville, Tenn. Filed Feb. 4, 1928. Serial No. 251,908. 2 Claims. (Cl. 56—249.)



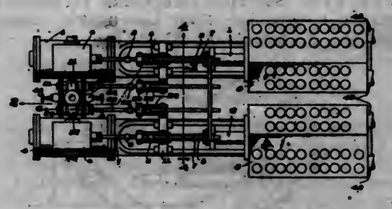
1. An attachment for lawn mowers wherein the lawn mower embodies a roller supporting structure, comprising a pair of inverted substantially U-shaped brackets adapted to be secured over the handle carrying bars of the lawn mower in a rigid manner, a laterally extending tongue formed on the free end of the outermost arm of each of said brackets, additional brackets adapted to be secured adjacent the ends of the lawn mower roller supporting structure, each of said last mentioned brackets being formed at its upper end with a laterally disposed tongue, bolts slidably disposed through the tongue of the U-shaped brackets, the heads of the bolts engaging with the said last mentioned tongues, the threaded ends of said bolts being secured to the laterally disposed tongues of the respective brackets adapted to be carried by the roller supporting structure, and expansible coil springs convoluted about the bolts for disposition between the respective pairs of tongues for exerting a downward pressure on the roller of the lawn mower.

1,754,742. APPARATUS FOR CONTROLLING RAILWAY SWITCHES. DELBERT F. COBOURN, Portsmouth, Oh'o, assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 14, 1929. Serial No. 362,925. 2 Claims. (Cl. 246—258.)



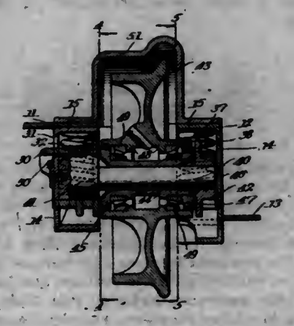
1. In combination, a switch valve comprising a first and a second magnet, a railway switch operable to a first or a second position as controlled by said first or said second magnet respectively, a relay controlled by traffic conditions and having a front contact and a back contact, a switch contact closed when said switch is in said first position, a second switch contact closed when said switch is in said second position, a first circuit for said first magnet controlled by said front contact of said relay, a second circuit for said first magnet including said back contact of said relay and said first switch contact, a circuit for said second magnet, and a second circuit for said second magnet including said back contact of said relay and said second switch contact.

1,754,743. PUMPING ENGINE. PAUL DIEDERICHS, Brooklyn, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Jan. 24, 1927. Serial No. 163,028. 11 Claims. (Cl. 121—114.)



1. The combination, with a pair of direct acting pump engines, each having a steam valve gear, of a duplex valve gear connected in series with said valve gears of the engines for controlling flow of motive fluid to the single valve gears, and by-passes to permit passage of a limited amount of motive fluid to said single valve gears independently of the duplex valve gear.

1,754,744. JOURNAL-BOX MOUNTING. GLENN E. EDMUNDS, Franklin, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 29, 1929. Serial No. 359,050. 13 Claims. (Cl. 105—169.)



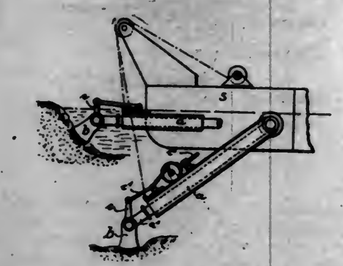
1. In a mining car, a truck of the independent stub axle type comprising inner and outer side frames, each of said frames having seats therein, a journal box arranged to be removably mounted on said seats, yieldable means for normally urging said journal box into engagement with said seats, a stub axle carried by said journal box, and a wheel mounted on said axle.

1,754,745. ROLLING STRIP METAL. CHARLES H. ELLIOTT, Youngstown, Ohio, assignor to Republic Iron and Steel Company, Youngstown, Ohio, a Corporation of New Jersey. Filed June 13, 1929. Serial No. 370,685. 7 Claims. (Cl. 80—60.)



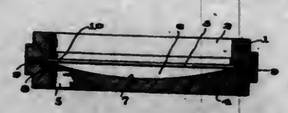
1. In the method of rolling metal in backed mills, the steps consisting in passing material through successive roll stands, engaging its edges between stands to guide it and maintaining it sufficiently flat in the several passes to permit of controlling it by side guides.

1,754,746. SUCTION DREDGER. FRIEDRICH EWIG, Brunswick, Germany. Filed June 6, 1928. Serial No. 283,350. 6 Claims. (Cl. 37—58.)



3. In a suction dredge, the combination with a suction pipe, of a nozzle mounted adjacent the lower end of the pipe, a rotatable shaft carried by said pipe, and a crank driven by said shaft and connected to said nozzle for imparting reciprocating movement thereto during the dredging operation.

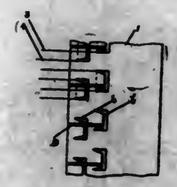
1,754,747. VALVE. HARRY A. FELDBUSH, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed July 18, 1928. Serial No. 293,685. 2 Claims. (Cl. 251—119.)



1. The combination of a valve seat having one or more ports, one or more thin elastic plate forming valves free to permit uniform bending, an abutment block having abutment surfaces for said valve plates, and wear resisting buttons inserted in the abutment block at each end of each of the abutment surfaces, said buttons having part of their upper surfaces milled to continue and form the terminals of the abutment surfaces, said milled surfaces terminating in abrupt shoulders whereby the entire abutment surfaces will be inwardly of the valve seat engaging surface of the abutment block.

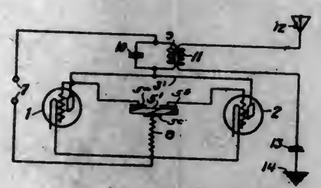
1,754,748. ELECTRIC INSECT DESTROYER. ANSON J. FROST, Spokane, Wash. Filed July 9, 1926. Serial No. 121,478. 7 Claims. (Cl. 43—112.)

1. An electric insect destroyer comprising a frame, insulating strips at the opposite sides of said frame, each of said strips being provided with two rows of slots, the slots of one row being staggered with respect to the slots of the other row, said strips being provided with



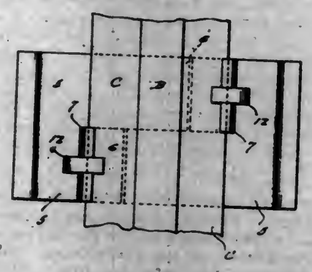
slots extending from one edge of the strips and through a slot in each of the rows of slots and wires supported in said first named slots.

1,754,749. SHORT-WAVE GENERATOR. FELIX GERTH, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Jan. 9, 1928, Serial No. 245,554, and in Germany Jan. 13, 1927. 3 Claims. (Cl. 250—36.)



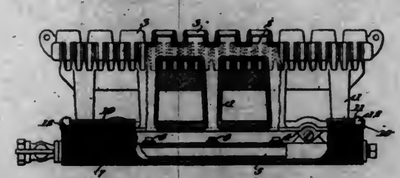
1. In a push-pull tube generator, wherein, in addition to the normal frequency there is present a double frequency, an oscillating circuit connected in the anode circuit and tuned to this double frequency, and a utilization circuit to which said oscillation circuit is coupled.

1,754,750. RAIL PLATE. HARRY L. GORDION, The Dalles, Oreg. Filed July 8, 1929. Serial No. 376,660. 2 Claims. (Cl. 238—290.)



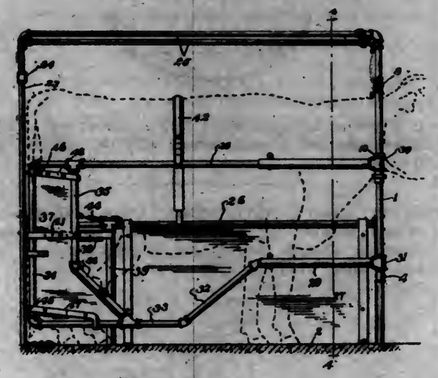
1. In a rail plate of the character described, a pair of plate sections for partial engagement between the rail base and supporting tie at opposed edges of the base, extensions formed at the inner edges and at opposed ends of each section for disposition adjacent each other beneath the rail base and means at the end of each extension for engagement over the adjacent edge of the rail base, said means being formed with a vertical notch for registry with a notch in the opposite plate section whereby a spike may be driven through said registering notches for engagement with the base of the rail.

1,754,751. AIR FILTER FOR GAS BURNERS. GEORGE L. GRAYSON and CURTIS E. KNIGHT, Athens, Ohio, assignors to The J. H. Grayson Manufacturing Company, Athens, Ohio, a Corporation of Ohio. Filed July 15, 1926. Serial No. 122,660. 7 Claims. (Cl. 158—99.)



1. The combination with the burner manifold and the spaced gas supply manifold of a radiant gas heater, of an air strainer comprising wire gauze extending along and surrounding the gas manifold, and wire gauze end flaps closing the ends of the strainer, whereby foreign particles are separated from all air entering the burner manifold.

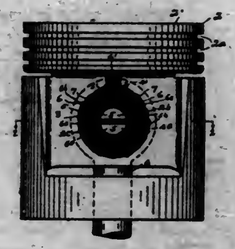
1,754,752. COW STALL. JAMES F. GRIM, Comstock, Nebr., assignor of one-half to Louie E. Grim, Comstock, Nebr. Filed Aug. 10, 1926. Serial No. 128,439. 3 Claims. (Cl. 119—27.)



1. An apparatus for the purpose set forth comprising an open frame consisting of a pair of fixed front posts, a pair of fixed rear posts, the rear posts being spaced apart a greater distance than the front posts, cross bars rigidly connecting the front posts, a cross bar rigidly connecting the rear posts near their upper ends, diagonally disposed braces rigidly connecting the upper ends of the front and rear posts, a side bar rigidly connecting the front and rear posts at one side of the frame and located at an intermediate point in the height thereof, and a gate forming a closure for the opposite side of the frame and mounted upon the front post at the said side, said gate extending the full length of the frame and means whereby the rear free end of the gate may be held to said side bar or at a set distance therefrom.

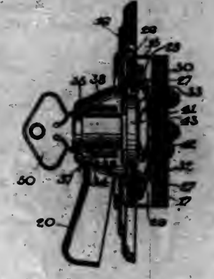
1,754,753. SELF-ADJUSTING WRIST PIN. CHARLES A. ISELIN, Fulton, N. Y., assignor of one-half to Erving Iselin, Syracuse, N. Y. Filed Nov. 4, 1929. Serial No. 404,683. 5 Claims. (Cl. 74—108.)

1. A non-expansible wrist-pin formed with spaced longitudinal grooves in its external surface, the facing sides of said grooves being radial, springs engaging said radial sides, and take-up bars loosely disposed in said grooves



adapted to be moved in opposite directions laterally by the tension of said springs to take up looseness due to the wearing of the wrist-pin.

1,754,754. LIGHTING AND IGNITION SWITCH. EDWARD N. JACOBI, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Continuation of application Serial No. 753,890, filed Dec. 4, 1924. This application filed Apr. 15, 1925. Serial No. 23,269. 6 Claims. (Cl. 200—11.)

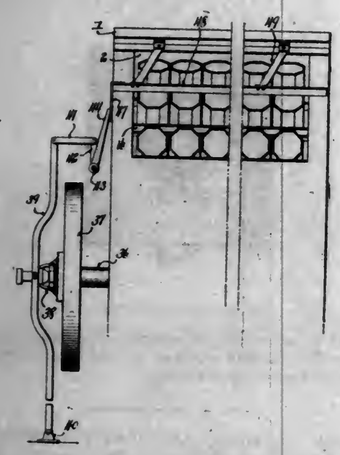


1. In a switch, a switch-case having a closed end, a front-plate secured to the end of the switch-case, a handle member having an outwardly extending flange fitting in a space between the front-plate and the end of the switch-case, a lock barrel fitting in an opening of the handle member and bearing on the end of the switch-case, a lock sleeve surrounding the lock barrel and engaging the end of the switch-case so as to be incapable of turning, and a spring between the lock sleeve and the handle member.

1,754,755. BOTTLE-WASHING MACHINE. HERMANN KRAUSE, Menomonee Falls, Wis., assignor, by mesne assignments, to Stout Manufacturing Company, Menomonee Falls, Wis. Filed July 7, 1927. Serial No. 204,074. 2 Claims. (Cl. 192—125.)

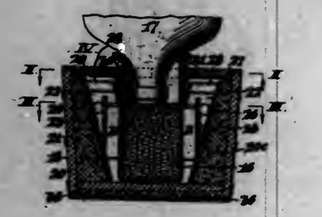
1. A bottle washing machine comprising a compartment housing bottle cleaning means and having an entrance opening, bottle advancing means located within said compartment and adapted to receive bottles through said entrance opening, a transversely mounted guard bar controlling the operation of said bottle advancing means and mounted adjacent said advancing means, whereby said

guard bar will be struck by a bottle displaced from said bottle advancing means, and a pair of links pivoted at one



end to a stationary portion of the machine and pivoted at the other end to said bar, whereby lateral swinging of said bar is permitted.

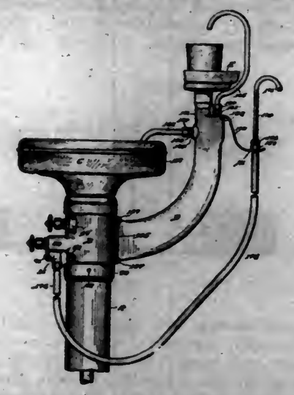
1,754,756. LIQUID COOLER. THOMAS S. MERRYLEES, Yeadon, Pa. Filed Aug. 10, 1928, Serial No. 298,675. Renewed Sept. 7, 1929. 12 Claims. (Cl. 62—91.5.)



1. Conversion means of the character described for liquid coolers of the fountain type—wherein an ice receptacle surrounds a jar receiving the liquid to be cooled from an inverted supply container—comprising a body of thermo-insulation to fill the space around the jar within the receptacle aforesaid but with provision of flanking chambers each just large enough to accommodate a standardized unit block of solidified carbon dioxide in contact with the jar.

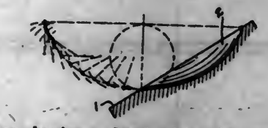
1,754,757. FOUNTAIN CUSPIDOR. CLARENCE W. MOORE, Roslyn, Pa., assignor to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y., a Corporation of Delaware. Filed Nov. 30, 1926. Serial No. 151,736. 27 Claims. (Cl. 4—263.)

1. In a cuspidor a unitary drainage and distributing head comprising a cast metal body having a plurality of communicating drainage passages including a main substantially vertical passage, the walls of the passages being formed of the cast metal, a water distributing system disposed within the cast metal of the head out of contact with the drainage passages and formed in part at least of pre-formed conduits and valve seats, a water inlet being disposed in the lower part of the head toward one side thereof, the discharge from said head being sub-



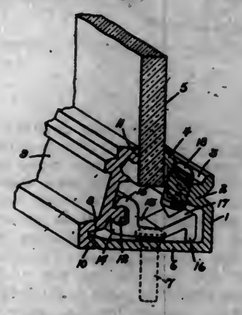
stantially perpendicular to the main drainage passage and on a side of the head peripherally spaced from the water inlet.

1,754,758. INTERNAL-COMBUSTION ENGINE. CHARLES H. MUCKENHIRN, Detroit, Mich. Filed Sept. 1,1928. Serial No. 303,392. 11 Claims. (Cl. 123—191.)



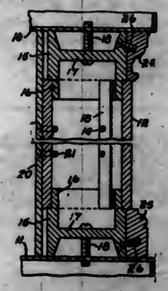
1. A piston having a head with a depression therein with said depression being formed with the curvature of a cycloid.

1,754,759. SASH CONSTRUCTION. CHARLES G. NELSON, Chicago Heights, Ill., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill., a Corporation of Illinois. Filed Feb. 29, 1928. Serial No. 257,804. 7 Claims. (Cl. 20—56.4.)



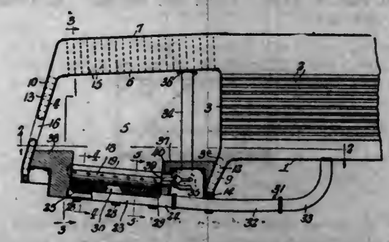
1. In a sash construction, a front clamping member and a rear clamping member having coengaging edges, the line of engagement constituting an axis about which one of said members is relatively adjustable to clamp the glass, a draw plate, and means acting upon the draw plate to effect the clamping action, said draw plate and one of the clamping members having coengaging portions, one of said portions forming flanges curved toward each other and having opposed coaxial cylindrical faces of equal radii and the other of said portions forming a bead with convex faces fitting within said cylindrical faces to constitute a hinge connection.

1,754,760. CORNER-BAR CONSTRUCTION FOR STORE FRONTS AND THE LIKE. CHARLES G. NELSON, Chicago Heights, Ill., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill., a Corporation of Illinois. Filed June 2, 1928. Serial No. 282,831. 3 Claims. (Cl. 189—78.)



1. In a construction of the class described, a hollow substantially cylindrical column, anchors secured in abutting relation to the ends of said column and having reduced portions extending beyond the abutting surfaces and fitting into the ends of the column to prevent lateral displacement of the same, said column being in two sections, one of said sections having internal flanges lapping the interior face of the other section and secured thereto, said reduced portions of the anchors having recesses into which the end portions of said flanges fit, and rails secured to said column for mounting glass holding members.

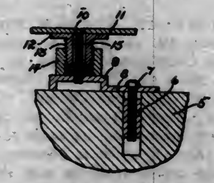
1,754,761. LOCOMOTIVE BOILER. ARTHUR WM. NELSON, Park Ridge, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a Corporation of Delaware. Filed June 18, 1928. Serial No. 286,444. 4 Claims. (Cl. 122—68.)



1. A locomotive boiler construction embodying therein a barrel and a firebox having sheets forming parts of the front, rear and side water legs of the boiler, a pair of relatively flat hollow water heating and circulating elements disposed in the firebox and each extending downwardly and inwardly from an associated side sheet, means providing an intake for boiler water from the barrel of the boiler connected to the inner rear end portion of each element and other means providing an outlet for the outer front end portion of each element and opening through one of the sheets of the firebox and discharging into adjacent boiler water space.

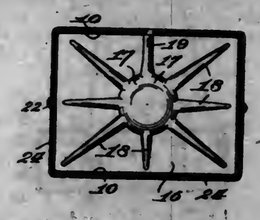
1,754,762. ADJUSTABLE FRAME SETTING. CHARLES G. NELSON, Chicago Heights, Ill., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill., a Corporation of Illinois. Filed July 18, 1928. Serial No. 293,704. 2 Claims. (Cl. 20—12.)

1. In a building construction having an opening, the combination of a fixed member adjacent the opening, a nut normally bearing against said fixed member, a screw threaded into said nut but normally terminating short of said fixed member, a seat comprising the head of said screw, a jamb member resting against said seat, said nut being adjustable to vary the distance between said jamb



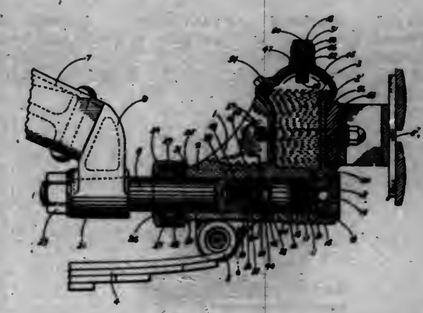
member and said fixed member, and a screw threaded fastening member connecting the jamb member directly to said fixed member and adjustable to secure the jamb member tightly against said seat, said screw having a central bore through which the fastening member freely passes.

1,754,763. THERAPEUTIC PAD. JOSEPH MARCUS NUNNALLY, Hollywood, Calif. Filed Feb. 13, 1928. Serial No. 254,022. 4 Claims. (Cl. 128—254.)



1. In a therapeutic pad, a frame, a porous member arranged in said frame and having an exposed face, a heating element within the holder behind said porous member and a frame carried by said holder and adapted to be moved forwardly therefrom beyond the exposed face of said porous member.

1,754,764. FLUID-SEALING MEANS. JOHN A. OLSON, Cleveland, Ohio, assignor to Ruth M. Olson, Cleveland, Ohio. Filed May 18, 1929. Serial No. 364,035. 8 Claims. (Cl. 74—109.)



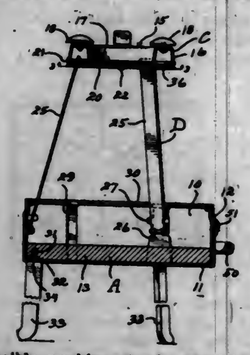
1. A fluid pressure device comprising a cylinder and a piston movable therein, said piston having an expandable annular flange extending from one end thereof, said annular flange being weakened circumferentially near its base and also axially and having an inclined inner surface, a cap movable relatively toward and away from the piston, and packing means to prevent the ingress of fluid under pressure into the space between the cap and the piston, said packing means including a flexible packing member interposed between the flange and the cap and

engaging the said inclined inner surface, to expand the flange into fluid sealing contact with the cylinder walls when fluid pressure is exerted against the cap to move the latter toward the piston.

1,754,765. COKING COAL. SAMUEL W. PARR and THOMAS B. LAYNG, Urbana, Ill., assignors, by mesne assignments, to Urbana Coke Corporation, Urbana, Ill., a Corporation of Delaware. Filed Oct. 31, 1918, Serial No. 260,541. Renewed Sept. 21, 1923. 30 Claims. (Cl. 202—9.)

1. A process of coking coal which comprises heating the material uniformly throughout its mass to a temperature below but near that at which it becomes viscous before applying a coking temperature to any substantial part thereof, fusing the material to a pasty condition throughout its mass while quiescent and then coking the mass.

1,754,766. COLLAPSIBLE CIGAR STAND. STANTON PHILLIPS, Atlantic City, N. J. Filed Apr. 1, 1929. Serial No. 351,788. 6 Claims. (Cl. 248—41.)



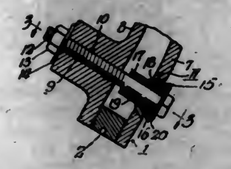
1. A collapsible smoking stand comprising a receiving case embodying an annular body portion, legs pivotally connected at their lower ends to the inner side of the annular body and collapsible into the body, an ash tray slidably fitting over the upper end of the legs when the legs are extended, and means rotatably carried by the ash tray for locking engagement with the upper end of said legs.

1,754,767. HANDLE ATTACHMENT. RUSSELL R. POTTER, New York, N. Y., assignor, by direct and mesne assignments, to Durable Brush Co., Inc., a Corporation of New York. Filed Oct. 7, 1927. Serial No. 224,537. 1 Claim. (Cl. 306—10.)



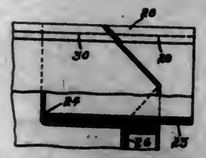
In a device of the class described, in combination with an article to be provided with a handle, of a handle attachment comprising a handle provided with a metal strip secured to one end thereof and having an extending portion adapted to be secured to the article, said article being provided with a groove in which said metal strip is snugly positioned, the extending portion of said metal strip positioned in said groove being snugly engaged throughout its length by the side walls of said groove to prevent relative turning of said parts, fastening means on said article adapted to secure said strip securely in position in said groove and also permitting the same to be removed therefrom and to be reversed in position.

1,754,768. LIQUID-DISCHARGE NOZZLE. HARRY W. PROTZELLER, East Chicago, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Feb. 23, 1927. Serial No. 170,295. 5 Claims. (Cl. 299—130.)



1. A liquid discharge nozzle embodying therein a casing having a discharge orifice therein, a valve member extending through said orifice and normally out of engagement therewith, and means providing a rigid support for said member and upon which it is capable of a limited lateral floating movement so as to be centered with respect to said orifice by the pressure of the liquid being discharged.

1,754,769. VALVE BAG AND METHOD OF MAKING THE VALVE. JOHN C. REDINGTON, Geneva, Ill., assignor, by mesne assignments, to St. Regis Paper Company, New York, N. Y., a Corporation of New York. Filed Mar. 9, 1928. Serial No. 260,437. 15 Claims. (Cl. 150—9.)



3. A valve bag comprising a tubular portion having one corner folded in to form an inlet opening and a valve-flap extending from the folded-in corner, said flap having its end extending outward through said opening.

1,754,770. FASTENER. HARRY A. SALLOP, New York, N. Y. Filed June 28, 1927. Serial No. 202,118. 1 Claim. (Cl. 24—217.)



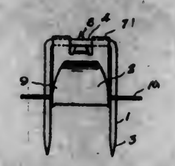
A fastener device comprising a head having a substantially rectangular opening, the wall of which is slit at spaced points to allow portions of the wall to be flexed laterally to allow a stud element to be snapped thereby for movement into abutting relation with the non flexible portion of the wall.

1,754,771. PROCESS OF MAKING CURVED ROOFING ELEMENTS AND PRODUCT THEREOF. LESTER KIRSCHBRAUN, Chicago, Ill., assignor to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 1, 1923, Serial No. 665,805. Renewed Dec. 24, 1927. 24 Claims. (Cl. 92—67.)



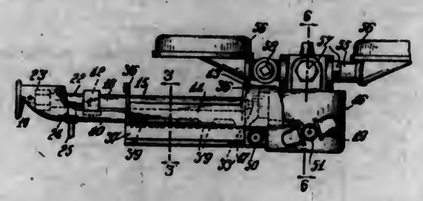
1. A process of producing roofing elements having curved surfaces comprising sheeting a fibrous stock into a wet web, forming said sheeted fibrous stock into a tube from the wet web, drying the tube and slitting the same longitudinally and transversely into roofing elements of predetermined size and configuration.

1,754,772. FASTENER. HARRY A. SALLOP, New York, N. Y. Original application filed Jan. 5, 1928, Serial No. 244,707. Divided and this application filed Jan. 21, 1929. Serial No. 333,993. 3 Claims. (Cl. 24—150.)



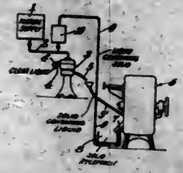
1. A fastener comprising a double pointed pin having a U-shaped head including a cross bar, a plate having a fastener element and a hinged member applied to the cross bar between the limbs of the pin and a locking element on the plate extending rearwardly therefrom.

1,754,773. GAS GENERATOR AND DISTRIBUTOR. GUSTAVE F. SCHMIDT, Hollywood, Calif. Filed Dec. 12, 1927. Serial No. 239,350. 12 Claims. (Cl. 158—53.)



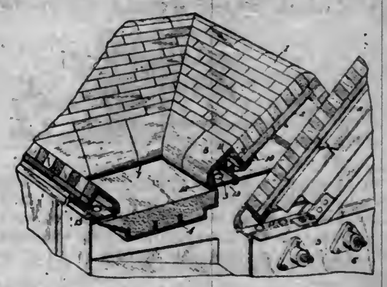
1. A device of the character described comprising a chambered casting provided with a mixing chamber, a distributing chamber having communication with the mixing chamber, a pilot feeding chamber having communication with said mixing chamber in advance of the point of communication between the mixing chamber and distributing chamber, a metallic tube mounted at one side of the casting adjacent to the inlet end of the mixing chamber, a non-porous non-metallic tube arranged within and in snug fitting relation with said metallic tube and having minute oil passages therethrough arranged out of contact with said metallic tube, said passages at the discharge ends of the tubes terminating in a common passage of larger dimensions to permit expansion of the vaporized oil, and a valve provided with a stem disposed through and in close fitting relation with said inner tube for controlling the discharge of the vaporized fuel into said mixing chamber.

1,754,774. SEPARATION OF MIXTURES. LAURENCE P. SHARPLES, Chester, Pa., assignor to The Sharples Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed Nov. 16, 1927. Serial No. 233,607. 9 Claims. (Cl. 233—18.)



1. In the separation of mixtures of solids with liquids the process comprising, progressively subjecting the mixture to the influence of centrifugal force and thereby separating it by sedimentation into a substantially pure liquid component and a second component comprising substantially all of the solid constituent of the mixture and some of the liquid, centrifugally discharging said second component continuously from the periphery of the body of substances under the influence of centrifugal force, while separately discharging said first component from the influence of centrifugal force, and subjecting said second component to the influence of centrifugal force and thereby separating it into a substantially liquid-free solid component and a component comprising liquid containing some of the solid.

1,754,775. LINING BORDER. MAX C. SHERMAN and LEIGH P. HOYT, Philadelphia, Pa., assignors to Frank H. Dunbar, Cleveland, Ohio. Filed Feb. 25, 1926. Serial No. 90,471. 8 Claims. (Cl. 110—1.)



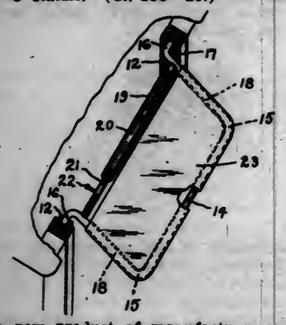
1. A furnace bottom having a refractory lining and provided with an opening therethrough, and recessed metal blocks engaging the lining and surrounding the opening, the recess opening outwardly of the furnace bottom.

1,754,776. CLOSURE FOR BOTTLES OR BAGS. STANLEY J. STANLEY, New York, N. Y. Filed Apr. 11, 1928. Serial No. 269,079. 3 Claims. (Cl. 150—3.)



2. In a closure for bottle necks, a neck having an outturned flange, a stopper for said neck, a shoulder projecting outwardly from said stopper to overlie said flange, said shoulder formed of a material including hard resin and having a strong affinity for rubber, a rubber gasket interposed between said flange and shoulder, and the said neck and stopper provided with means for bringing the shoulder forcibly against said gasket.

1,754,777. SUNSHADE FOR VEHICLES. FRED STONE, Gladewater, Tex. Filed Aug. 24, 1925. Serial No. 51,977. 5 Claims. (Cl. 156—15.)



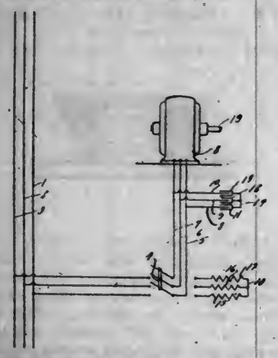
1. As a new product of manufacture, an awning for automobiles comprising a U-shaped wire frame, the end portions of the arms directed laterally outwardly and the extremities directed downwardly at right angles to said lateral portions and at a substantially acute angle to the major portions of said arms, said extremities being resilient, a connecting strip between the arms adjacent the lateral bends, and a covering for said frame, said covering being connected at its ends with said arms and along one longitudinal side with the bight portion of the frame.

1,754,778. RAIL CLEANER AND GUARD FOR RAILROAD SPREADERS. VSEVOLOD G. TRELLIS, East Chicago, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed Dec. 24, 1926. Serial No. 156,795. 6 Claims. (Cl. 37—105.)



4. In combination with a railroad spreader including a front plow and apron and a main spreader wing terminating rearwardly of said apron, a rail cleaner guard positioned between but independent of said wing and said apron, and means for vertically guiding said rail cleaner guard.

1,754,779. DYNAMO-ELECTRIC CONTROL SYSTEM. ERNEST B. THURSTON, Toledo, Ohio, assignor to The Haughton Elevator & Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 14, 1925. Serial No. 75,314. 8 Claims. (Cl. 172—274.)

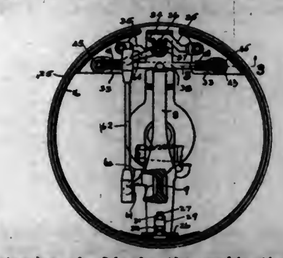


1. In a motor control system, a polyphase alternating current motor, a condenser, a power line, a resistance, and means to connect the motor and condenser with the power line, or in parallel with the resistance.

2. In a motor control system, a multi-speed polyphase alternating current motor of the induction type having different circuits for different speeds, a condenser, a resistance, a power line, and means to connect the power line and condenser with any one of said circuits or to close one of said circuits through the resistance and condenser, said resistance and condenser being in parallel.

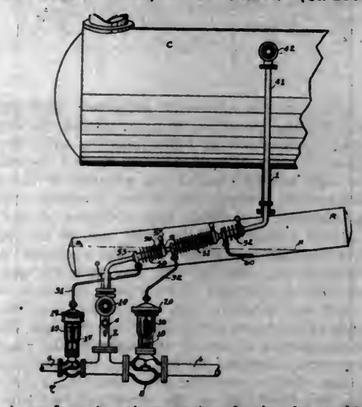
3. In a motor control system, the combination with a polyphase alternating current motor having a winding provided with a set of terminals, of dynamic braking means for said motor, said braking means comprising a resistance for each phase, means for connecting said resistance and winding upon the disconnection of said winding from a source of energy, and a static condenser for each phase permanently connected to said winding and parallel to the resistance, whereby said winding is excited by said condenser.

1,754,780. MULTIPLE WHEEL BRAKE FOR AUTOMOTIVE VEHICLES. FRED A. TRUESDELL, Cleveland, Ohio, assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1922. Serial No. 586,134. 6 Claims. (Cl. 188—194.)



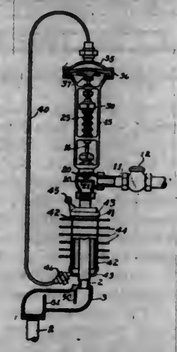
1. In a steering wheel brake, the combination of an axle, a steering knuckle, a steering wheel, a brake drum attached to said wheel, a brake for said drum, and brake operating mechanism comprising an operating member mounted on the steering knuckle, a member mounted on said axle, and an intermediate member connected to said other two members an dnormally having its axis parallel to the axis of the steering knuckle but being adapted to be moved angularly during the turning of said wheel to gradually release the brake in direct proportion to the wheel turning movement.

1,754,781. DRAINAGE CONTROL. JOSEPH M. BARRETT, Fostoria, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 19, 1926. Serial No. 149,439. 25 Claims. (Cl. 236—56.)



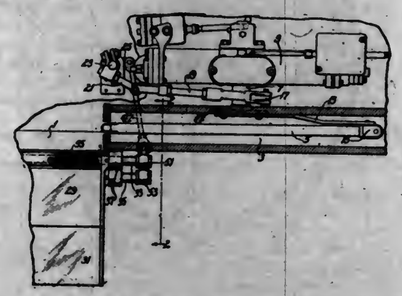
1. A condensate return system having in combination a receiver, a plurality of pressure generators associated therewith, discharge lines leading from the receiver, a plurality of valves controlling the discharge lines, said valves being arranged to operate successively in said lines, a plurality of means inculding pressure responsive devices connecting the valves with the generators whereby one valve is operable in varying degrees within a range of predetermined condensate levels in the receiver and a second valve becomes operative within a higher range of condensate levels to increase the discharge from the receiver while the first valve is maintained in a maximum open condition.

1,754,782. AIR-RELIEF VALVE. JOSEPH M. BARRETT, Fostoria, Ohio, assignor to The Swartwout Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 26, 1926. Serial No. 150,867. 10 Claims. (Cl. 236—64.)



1. In an air relief valve for a chamber containing steam, the combination of a valve, a conduit leading from the chamber to the valve, means tending to force the valve open, pressure responsive means for closing the valve, means including a compartment containing an expansible fluid surrounding the conduit between the chamber and the valve adapted to create a pressure depending upon the heat content of the fluid in the conduit, whereby the valve is actuated according to the heat content of the fluid in the conduit.

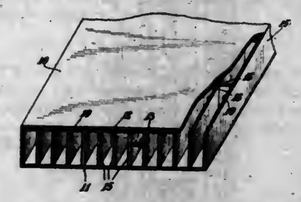
1,754,783. STEP. JOHN ROBERT BLACKHALL, Joliet, Ill. Filed May 9, 1927. Serial No. 189,869. 3 Claims. (Cl. 105—437.)



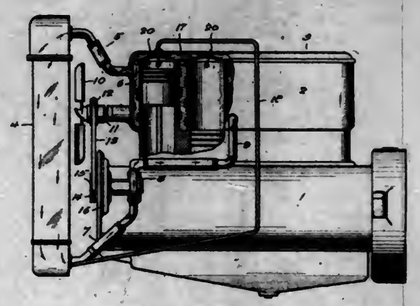
1. The compound folding step comprising two steps hinged below an entrance, means for simultaneously folding said steps from extended positions to folded positions and means for separately counter-balancing the weight of each step.

1,754,784. COMPOSITE FIBER BOARD. MORRIS BORSODI, Brooklyn, N. Y. Filed July 16, 1927. Serial No. 206,308. 1 Claim. (Cl. 154—2.)

The method of forming composite structures comprising two parallel spaced apart boards and spacing and reinforcing ribs interposed between said boards and united therewith by a cementitious material, which consists in, first, clamping the ribs in spaced relation in a form so as to permit the major portions of said ribs to extend beyond said form, second, dipping the exposed portions of said ribs into a cementitious material and placing the said ribs with the form uppermost onto one of said boards to permit the cementitious material to run down the faces of said ribs onto said board to form, when dried, ridges along the contact lines of said ribs and said board, third, drying the cementitious material, fourth, inverting the structure so obtained and dipping the free portions of said ribs into a cementitious material, fifth, placing the ribs with the first board thereon onto a second board and permitting the cementitious material to run down the faces of said ribs onto said second board to form, when dry, ridges along the contact lines of said ribs and said second board, and, sixth, permitting the cementitious material applied to said ribs during the second dipping operation to dry.



1,754,785. INTERNAL-COMBUSTION ENGINE. ROBERT F. BROWN, Baltimore, Md. Filed June 28, 1927. Serial No. 202,145. 3 Claims. (Cl. 123—170.) (Granted under the act of Mar. 3, 1883, 22 Stat. L., 625.)

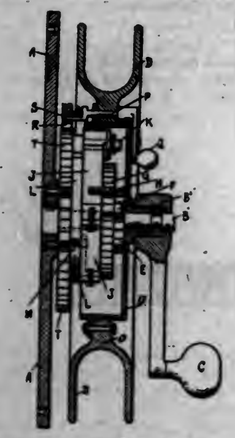


1. The combination with an internal combustion engine having a water jacket surrounding the cylinder and compression chamber, of a water cooling system including a radiator, connections between the upper part of the cylinder water jacket and the top of the radiator and between the lower part of the cylinder water jacket and the lower part of the radiator adapted to produce circulation of the cooling fluid in the water jacket surrounding the cylinder only and a steam outlet pipe at the top of the compression chamber water jacket, connected with said water cooling system.

1,754,786. WINCH. THOMAS ADAMS EAST, Wallington, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Oct. 29, 1924, Serial No. 746,465, and in Great Britain Oct. 30, 1923. 6 Claims. (Cl. 254—186.)

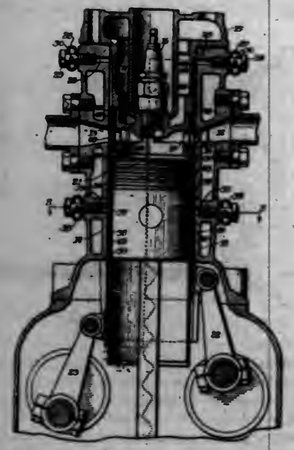
1. In a winch, the combination of a frame, a spindle, and a drum mounted thereon, with an escapement movement actuated by the said drum, comprising an escapement wheel, a rocker arm and pallet pins mounted thereon, and an oscillator connected to said rocker arm, a ratchet carried by said drum and pawls carried by said escapement wheel

for causing said escapement movement to become inoperative upon rotation of said drum in one direction, a second



ratchet mounted upon said frame, a second pawl carried by the said drum and means for causing said latter ratchet and pawl to become inoperative at will.

1,754,787. SLIDING VALVE CONSTRUCTION FOR INTERNAL-COMBUSTION ENGINES. HOWARD A. FLOGAUS, Detroit, Mich., assignor to Ralph L. Skinner, Detroit, Mich. Filed May 26, 1928, Serial No. 280,775. Renewed Sept. 14, 1929. 6 Claims. (Cl. 123—196.)

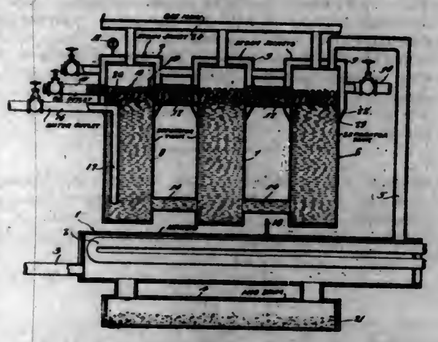


1. In an internal-combustion engine, the combination of a cylinder, a cylindrical sleeve inside of said cylinder, a piston reciprocatory in said sleeve, a valve slidable between and lengthwise of said cylinder and sleeve, means to reciprocate said valve, means to lubricate said valve, and means to withdraw the excess lubricant from the space along an edge of said valve.

1,754,788. PURIFYING LIGHT-METAL ALLOYS. JOHN A. GANN, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 13, 1923. Serial No. 651,431. 8 Claims. (Cl. 75—17.)

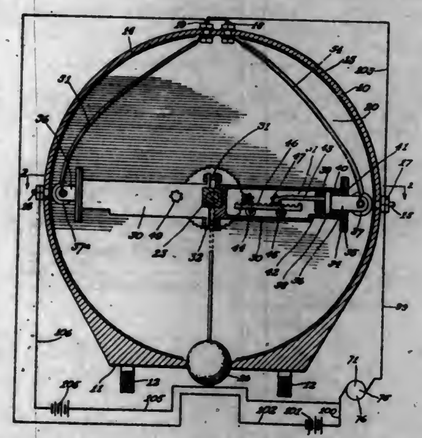
1. A method of purifying magnesium and alloys thereof, which comprises washing the molten metal by agitating and intermingling in a molten bath of a suitable flux and then separating.

1,754,789. OIL SEPARATOR. HARVEY H. GRACEY, Fort Worth, Tex. Filed Oct. 6, 1925, Serial No. 60,856. Renewed Jan. 11, 1930. 5 Claims. (Cl. 196—5.)



1. In a separator for treating a mixture of oil, water and gas, the combination of a plurality of containers for the mixture, having connections opening communication between the same near the upper end of the containers operating to permit the mixture at the upper levels and in which the oil predominates, to flow horizontally between the containers, means for connecting the containers at a point near their lower ends operating to open communication between the same and permit the liquid at the lower levels in which the water predominates, to flow horizontally between the containers, and heating means confined to the upper ends of the containers at and above the level of the first mentioned connections for heating the upper ends only of the containers in the vicinity of the said upper levels.

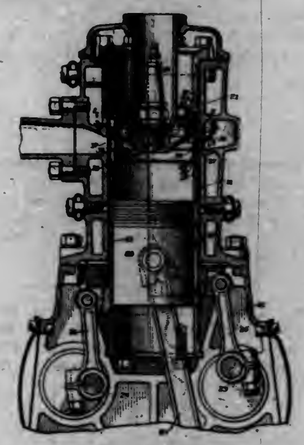
1,754,790. AUTOMATIC CONTROL DEVICE FOR AIRCRAFT. CHRISTIAN GROH, Caldwell, N. J. Filed Nov. 4, 1927. Serial No. 231,053. 31 Claims. (Cl. 244—29.)



1. In an aeroplane having a control surface, a member rigid with the aeroplane, a pendulum pivotally mounted on said member, a support rigid with said pendulum, contact shoes adjacent the ends of said support, members slidable in said support and adapted to contact with said shoes, means carried by said support for moving said slidable members along said support upon rotational movement of said rigid member, draft means connected to said control surface, electrical motive means, said draft means being attached to said motive means, a source of electrical energy, said motive means, slidable members, and

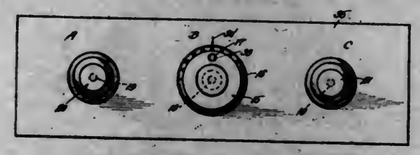
contact shoes being in electrical circuit with said source, said circuit being closed upon contact of one of said slidable members with its adjacent shoe.

1,754,791. INTERNAL-COMBUSTION ENGINE. GEORGE HILL, West Windsor, Ontario, Canada, assignor to Ralph L. Skinner, Detroit, Mich. Filed Feb. 9, 1929. Serial No. 338,643. 3 Claims. (Cl. 123—75.)



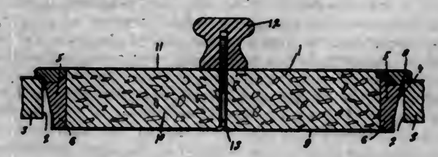
1. In an internal-combustion engine, the combination of an outer cylinder having inlet and exhaust ports, an inner cylinder inside of and spaced inwardly away from said outer cylinder and supported from below with its upper end below said cylinder ports, a piston reciprocatory in said inner cylinder, a connecting-rod joined to said piston and adapted to be connected to a crank-shaft, a split expansible sealing-ring bearing on the upper end of said inner cylinder and having an overlapping joint at its split, said sealing-ring having inlet and exhaust ports in substantial register with said cylinder-ports, an endless hold-down ring bearing on the upper edge of said sealing ring, a cylinder-head for said outer cylinder, spring means bearing on said cylinder-head and hold-down ring to maintain pressure-tight bearings between said sealing-ring and inner cylinder and between said hold-down ring and sealing-ring, expansion ring means between said cylinder-head and hold-down ring preventing fluid pressures in the cylinder from reaching said spring means, inlet and exhaust valves between and slidable lengthwise of said inner and outer cylinders, and means to reciprocate said valves, the joints between said sealing-ring and inner cylinder and hold-down ring being at substantially right-angles to the axis of said cylinder.

1,754,792. INDICATING DEVICE FOR RADIORECEIVERS. CHARLES L. HOPKINS, River Forest, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 16, 1925. Serial No. 56,623. 12 Claims. (Cl. 175—41.5.)



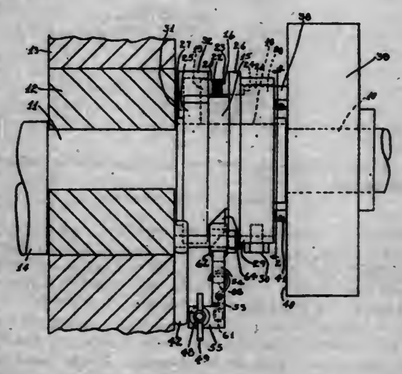
1. In a radio receiving set, a front panel, two independently adjustable elements spaced with respect to each other longitudinally of said panel which should occupy definite positions relative to each other for selective wave length reception, two movable indicator members, means for connecting said indicator members with said adjustable elements respectively, said indicator members being located near enough together so as to be conveniently observed together, the path of movement of the two indicator members being such that their relative positions indicates the relative position of the adjustable elements, and a fixed index cooperating with one of said movable indicator members to indicate the absolute position of one of said adjustable elements.

1,754,793. ICE-CREAM-CABINET CLOSURE. FREDERICK R. JEFFERYS, Cleveland, Ohio, assignor to The Aetna Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 1, 1928. Serial No. 303,477. 8 Claims. (Cl. 220—24.)



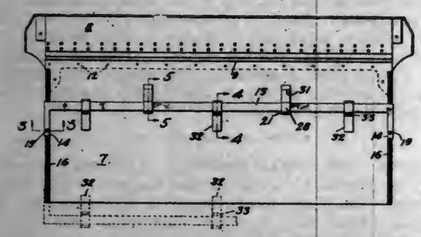
1. In a closure for ice cream cabinets, the combination of a disc shaped member, an outside supporting ring of hard rubber surrounding said disc, and an integrally formed soft rubber cone shaped portion of larger diameter at the upper portion of said ring, and a soft rubber flange at the top of said ring extending outwardly from said cone shaped portion.

1,754,794. CLUTCH. WILLIAM H. KAPPES, Cincinnati, Ohio, assignor to The Verdin, Kappes & Verdin Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 21, 1927. Serial No. 234,617. 5 Claims. (Cl. 192—25.)



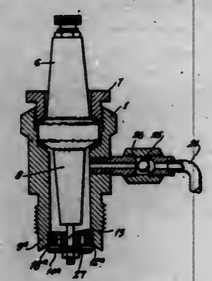
1. In a device of the class described the combination of a constantly revolving driving pin, a retractible clutch block adapted to be engaged by the driving pin, the clutch block having formed thereon an inclined face, a bracket, an arm pivotally mounted on the bracket, a shoe having an inclined face carried by the arm, the inclined face on the shoe being complementary to the inclined face carried by the clutch block and normally in engagement with the face on the clutch block to keep said clutch block in a retracted position, a lug on the arm, a floating lever having one end pivotally connected to the bracket, a nut on the free end of the lever, a spring carried by the lever and having its opposite ends in abutment on the lug and on the nut yieldingly resisting movement of the arm about its pivotal mounting and yieldingly resisting separation of the inclined faces.

1,754,795. TRANSFER BOARD FOR PRINTING PRESSES. EDWARD D. LAWRENCE, Oakland, Calif. Filed Aug. 23, 1928. Serial No. 301,573. 2 Claims. (Cl. 271—58.)



1. A transfer board of the character described comprising a movable plate arranged to have a sheet for printing introduced thereon from over one edge of the plate and removed therefrom over another edge, and means adjustable bodily towards and away from and in a plane substantially parallel to the last named edge and arranged to serve as a stop for an edge of said sheet to prevent the reverse movement of said sheet during the movement of the plate and prior to the removal of the sheet therefrom.

1,754,796. METHOD OF AND APPARATUS FOR KEEPING SPARK PLUGS CLEAN. WILLIAM MCELROY, Brooklyn, N. Y. Filed Dec. 31, 1928. Serial No. 329,616. 4 Claims. (Cl. 123—169.)



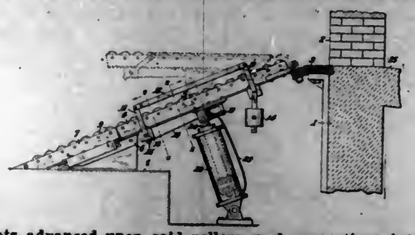
1. A spark plug, the central gap electrode of which is carborundum.

1,754,797. PROCESS OF PRODUCING ANHYDROUS ALUMINUM HALIDE FROM A DOUBLE HALIDE OF ALUMINUM AND AMMONIUM. CLAUDE G. MINER, Berkeley, Calif. Filed June 28, 1926. Serial No. 119,234. 14 Claims. (Cl. 23—93.)

1. A process of producing an anhydrous aluminum halide which comprises reacting a double halide of aluminum and ammonium with a phosphorous halide metathesis agent at an elevated temperature to produce anhydrous aluminum halide vapor and a non-volatile residue.

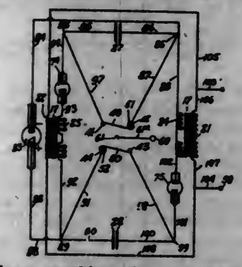
1,754,798. CONVEYER. HOWARD MINER and DUNCAN GRANT, Toronto, Ohio, assignors to Follansbee Brothers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 14, 1929. Serial No. 332,379. 1 Claim. (Cl. 214—18.)

In a device of the character described, a conveyer having one end pivotally mounted adjacent to the entrance door of a furnace, said conveyer having a frame and rollers mounted on said frame, said conveyer being normally disposed in an inclined position and adapted to have metal sheets pushed thereon from the floor, a power cylinder associated with said conveyer, a control valve for said cylinder, levers pivoted on said frame adjacent to the opposite ends of the latter, a bar pivotally mounted at its opposite ends upon corresponding ends of said levers, means normally maintaining said levers in upright position wherein their said ends and the thereon mounted bar are elevated above the level of said rollers, said levers and said bar being adapted to be moved to lowered positions by



sheets advanced upon said rollers, and connections intermediate one of said levers and said control valve whereby the latter is normally maintained closed and whereby movement of said levers to lowered positions effects opening of said valve for actuating said cylinder to elevate the conveyer to horizontal position.

1,754,799. X-RAY MACHINE. ARTHUR MUTSCHELLER, New York, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed Sept. 20, 1926. Serial No. 136,420. 13 Claims. (Cl. 250—84.)



5. In an X-ray machine the combination, with an X-ray tube, of a pair of secondary windings, a pair of valve tubes, one for each secondary winding, a pair of condensers, one for each secondary winding, and a switch connected with all of said secondary windings, valve tubes and condensers, said switch having two normal positions, one for the double purpose of connecting said secondary windings and said valve tubes in series with each other relatively to said X-ray tube and bridging said condenser across the same, the other for the double purpose of throwing said condenser out of action and connecting in parallel with each other, relatively to said X-ray tube, two parallel circuits each containing one of said secondary windings and one of said valve tubes.

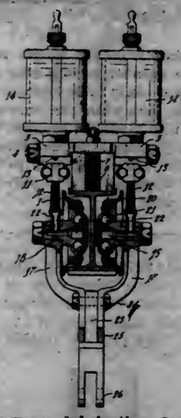
1,754,800. DUPLEX ELECTRIC WAFFLE IRON. EDWARD S. PRESTON, Chicago, Ill., assignor to Chicago Electric Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 24, 1929. Serial No. 334,840. 15 Claims. (Cl. 53—10.)



1. A waffle iron or the like comprising a base section, a middle section hinged to the base section, a top section

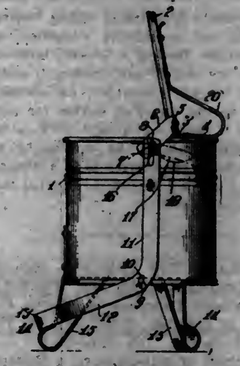
hinged to the middle section, and releasable latching means normally latching the upper section to the middle section to permit these sections to be swung conjointly about the hinged connection of the middle section to the base section, in combination with a handle fastened to one of the upper two sections; the latching means including an actuating member extending slidably through and supported by the said handle.

1,754,801. LUBRICATOR FOR TROLLEY CONVEYERS. ALEXIS R. PRIBIL, Saginaw, Mich. Filed June 9, 1928. Serial No. 284,252. 3 Claims. (Cl. 184—5.)



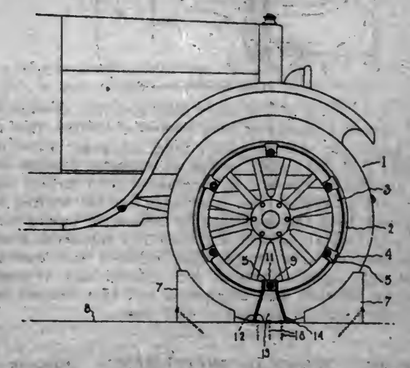
3. A trolley conveyer lubricating device comprising in combination a trolley rail, trolley wheels adapted to be propelled along said rail, a plurality of arms adapted to be connected together by a chain, axles mounted in the upper ends of said arms and adapted to rotatively support said wheels, bearings supported on said axles, a hollow bore formed in each of said axles, oil receiving cups mounted in said arms and said axles and communicating with said hollow bores, a bracket mounted on said rail, a forked arm pivotally mounted on said bracket, oil containers carried by said forked arms, brushes carried by said forked arm and adapted to be saturated with oil from said containers, and means for resiliently holding said forked arm in a position whereby said brushes are wiped by said oil receiving cups as said trolleys move along said rail.

1,754,802. WASTE CAN. WALTHER RASTER, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1927. Serial No. 230,723. 5 Claims. (Cl. 220—86.)



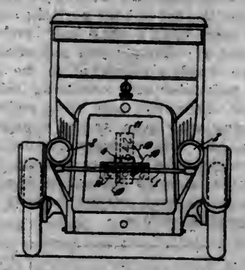
1. A receptacle equipped with a hinged cover and supporting legs at least one of the latter presenting an outwardly extending shoulder portion, a pair of downwardly extending arms at the hinged end of said cover, a stop member arranged to limit the opening movement of said cover, a substantially L-shaped lever presenting two upwardly extending arms engaged with the arms of said cover and pivotally secured at its elbow portions to the receptacle body, the middle portion of said lever disposed for engagement with the shoulder of said leg to limit its pivotal movement in one direction coincidentally with the attainment of the limit of opening movement of said cover, the interengaging portions of said arms of the cover and lever being arranged to cause the same to describe respective arms intersecting each other at the points of limit of swing of said lever and cover.

1,754,803. SHIPPING BRACKET FOR MOTOR VEHICLES OR THE LIKE. EDBERT ROGERS, Flint, Mich., assignor to E. S. Evans & Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 18, 1918. Serial No. 223,045. 15 Claims. (Cl. 188—32.)



15. In combination with a vehicle provided with wheels, a floor support for supporting said wheels, a light metallic brace member engaging a portion of one of said wheels for holding said wheel on said support, said brace member extending downwardly from said vehicle into engagement with said support and having each of its ends located outwardly of said wheel from said vehicle, and means for engaging and positively securing each end of said brace member in position for holding said wheel in engagement with said support for supporting said vehicle.

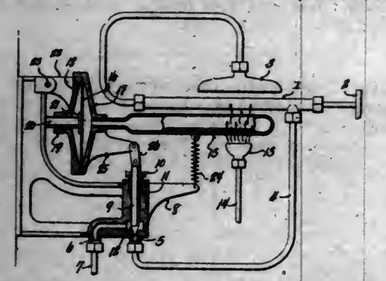
1,754,804. THEFTPROOF LICENSE-PLATE BRACKET. EGIDIO ROSSI, Albany, N. Y. Filed Feb. 6, 1929. Serial No. 338,016. 2 Claims. (Cl. 40—2.2.)



1. In a device for the purpose described, a casing member, means for securing the casing to a fixed part of a motor vehicle, a locking mechanism within the casing, a shaft rotatably mounted within the casing and extending to the outer side of the casing, a bar attached to the shaft,

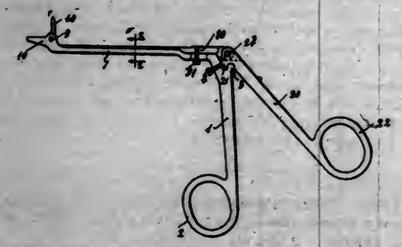
means for securing a registration plate to the bar, means for limiting the extent of rotation of the shaft, and co-operating means between the shaft and the lock for retaining the registration plate in either a horizontal or in a vertical position.

1,754,805. TEMPERATURE-ACTUATED AUTOMATIC CONTROL VALVE. JOSEPH SLADKY and ALEXANDER C. SLADKY, Milwaukee, Wis., assignors to National Enameling & Stamping Co. Inc., Milwaukee, Wis. Filed Oct. 8, 1928. Serial No. 311,280. 2 Claims. (Cl. 158—42.4.)



1. In a device of the class described, the combination of a burner, a generator tube connected thereto, fuel supply means for said generator tube, a plunger valve controlling said fuel supply means, an elongated tubular member adapted to contain an expansible fluid located adjacent said generator tube, a priming cup for heating said generator tube and said tubular member, a casing carrying said tubular member and pivotally supported from a stationary point, a bearing face adjacent said casing, a diaphragm mounted within said casing, and a plunger mounted between said diaphragm and said bearing face, said valve being connected to said casing.

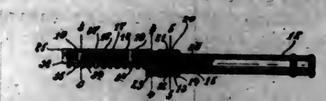
1,754,806. SURGICAL INSTRUMENT. HOLLAND N. STEVENSON, Pelham, N. Y. Filed Sept. 5, 1929. Serial No. 390,601. 10 Claims. (Cl. 128—318.)



1. A surgical instrument for making an opening in thin osseous partitions located in body portions inaccessible for open operation, comprising a small body-insertable, shears-like tool operated by corresponding movements of a pair of larger scissor handles connected to the tool by relatively movable, body-insertable connecting links, one of the members of said shears-like tool being pointed for individually producing with open shears a primary hole by piercing action, and both members having mating marginal portions with shearing edges defining a punch hole area for jointly enlarging, by closing the shears subsequent to the piercing action, said primary hole by an action of substantially punching nature.

1,754,807. SAFETY RAZOR. BERNARD TEWELOW, Wilmington, Del., and SOLOMON TEWELOW, Philadelphia, Pa. Filed July 31, 1926. Serial No. 126,176. 1 Claim. (Cl. 30—12.)

In a razor the combination with a handle having in one end a cone-shaped socket with a screw-threaded bore extending inwardly from the smaller end of said socket, of two blade-clamping members, one having a concave face and the other a convex face,—the member with the concave face being longer than that having the convex face and the longer portion formed into a stem with exterior screw-threads to enter the bore in the handle while the opposite ends of said two members are permanently hinged together so that when the stem is partially unscrewed from the handle-bore the shorter member may be swung away with-



out becoming detached from the longer member, the concave side of the one member having pins projecting therefrom to permit a razor-blade to be laid on the edges of said member and over the pins while the convex member is provided with sockets which will be brought into registration with the pins as the permanent hinge-connection guides the shorter member when it is swung back to clamp and bow a blade between said members and a guard on the shorter convex clamping-member.

1,754,808. AUTOMATIC CANE-CARRIED LIGHTER. ANICETO R. VISITACION, New York, N. Y., assignor of one-fourth to General William Weigel and of one-half to Louis G. Weigel, New York, N. Y. Filed June 29, 1928. Serial No. 289,172. 8 Claims. (Cl. 67—4.1.)

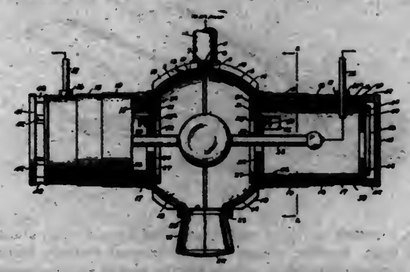


4. A hollow metallic cylindrical casing having a wall of uniform thickness and containing a lighter, said lighter comprising a cylinder having a lateral opening, a liquid fuel container in one end of said casing, a spark material tube and a wick in said container, an abrader over the material tube, a spring impelled device for actuating the abrader to throw a spark upon said wick, a ferrule movable on the cylinder wall, a cap carried by said ferrule to cover the wick when the ferrule is in a lowered position, and means carried by said ferrule to control the operation of said spring impelled device.

1,754,809. THERAPEUTIC TABLET. ELMER B. VLIET, Chicago, and ERNEST H. VOLWILER, Highland Park, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed Oct. 18, 1926. Serial No. 142,518. 3 Claims. (Cl. 167—82.)

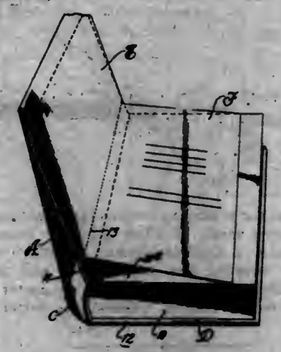
3. As a new article of manufacture, a therapeutic tablet containing chloramine as the active material and from 10 to 20% of potassium nitrate as a filler or diluent.

1,754,810. X-RAY PROTECTIVE DEVICE. REINHOLD H. WAPPLER, New York, N. Y., assignor to Wappler Electric Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed Mar. 21, 1922. Serial No. 545,488. 5 Claims. (Cl. 250—84.)



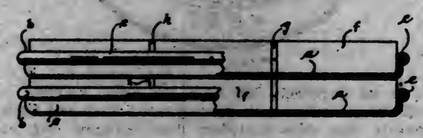
1. In a device the combination of a hollow casing member made of material substantially opaque to X-rays, said casing member being provided with tubular extensions and further provided with a window transparent to X-rays, metallic barrels carried by said tubular extensions projecting in opposite directions from said casing member, slides carried by said barrels for the purpose of supporting an X-ray tube, and mechanism carried by said slides for adjusting said X-ray tube.

1,754,811. BOOK PROTECTOR. EWING T. WEBB, Chicago, Ill. Filed May 4, 1929. Serial No. 360,524. 6 Claims. (Cl. 281—34.)



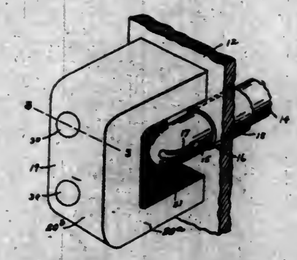
2. A paper protector for a book, including: front and back cover sheets adapted to be placed over the outer surfaces of the front and back covers of a book to cover the same, with their rear edges connected by a strip adapted to lie over the back of the book; flaps attached to the edges of the cover sheets and adapted to be folded under the covers of the book; and an extension flap attached to one flap and adapted to be folded back against the same and under the cover of the book.

1,754,812. BAKER'S PAN. FRED ZACHARIAS, Mineola, N. Y., assignor to himself and Albert C. Eggerts, Mineola, N. Y. Filed July 17, 1929. Serial No. 378,822. 3 Claims. (Cl. 53—6.)



2. A baker's pan embodying therein a metallic dish having sides, and means dividing said dish into a plurality of non-communicating compartments and projecting above the sides of said dish, whereby in stacking a plurality of pans when proofing, air space is afforded between said pans, and gripping areas are afforded for removing said frame from said dish.

1,754,813. BLOWER-NOZZLE PROTECTOR FOR FIRE BOXES. FRANCIS A. BARBEY, Cambridge, Mass. Filed Aug. 11, 1927. Serial No. 212,198. 2 Claims. (Cl. 110—76.)



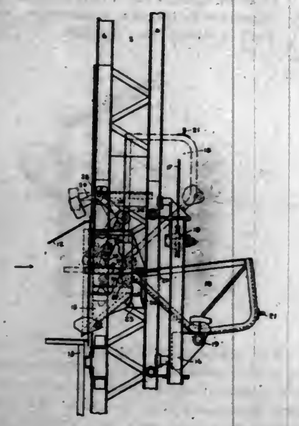
1. A blower nozzle-protecting attachment for a fire-box having in a wall portion thereof a blower-receiving opening, said attachment comprising a nozzle-protecting block of fire-brick material, having an inner end face seated on said wall portion, a front side face provided with a recess formed to receive a portion of a blower nozzle extending through said wall opening, an outer end face spaced from an end of said recess, and a rear side face spaced from the bottom of the recess, the block being provided with elongated bolt-receiving orifices extending from the inner to the outer end face, and between the bottom of the recess and the rear side face, said orifices having enlargements at their outer ends providing nut abutments and formed to receive nut-protecting fillings, bolts engaged with tapped sockets in said wall portion, and extending into said orifices, clamping nuts engaged with the outer ends of the bolts and cooperating with said abutments, and fillings of refractory material inserted in the enlarged ends of said orifices and protecting said nuts.

1,754,814. FRAME CLIP. HOWARD L. BUDD, Brooklyn, N. Y., assignor to Friedman Silver Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 13, 1928. Serial No. 325,676. 8 Claims. (Cl. 40—156.)



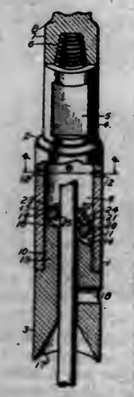
5. In combination with a frame having a front flange and a rearwardly extending flange, a rim inserted thereinto between the flanges and a back fitting inside of the rim, of a flat metallic member having its end portion secured to the inner face of the front flange and having part of the remaining portion thereof substantially at right angles to the end portion and passing about the inner edge of the rim to the rear face thereof, the other end portion of said member being adapted to be bent inwardly on the rear face of the back for removably holding the back in place, said member being substantially L-shaped in operative position, and said other end portion being out of contact with the rim.

1,754,815. CONCRETE ELEVATING AND DISTRIBUTING APPARATUS. JAMES E. BUSHNELL, North Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 255,894. 19 Claims. (Cl. 214—120.)



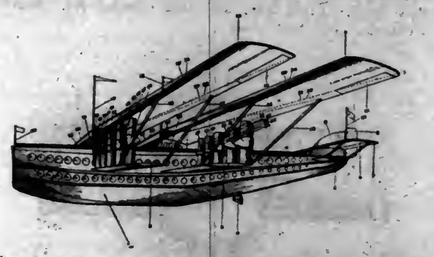
6. In a device of the character described the combination of a vertical track, a vertically moving tiltable receptacle mounted thereon, switch means mounted adjacent said track and receptacle for tilting said receptacle, and mechanism operable by said receptacle under predetermined conditions for opening said switch means whereby said receptacle when elevated is tilted by said switch and upon further elevation thereof said mechanism opens said switch means for permitting further elevation of said bucket.

1,754,816. SUCKER-ROD SOCKET. FRED C. CANNIFF, Tulsa, Okla. Filed June 20, 1928. Serial No. 286,889. 2 Claims. (Cl. 294—92.)



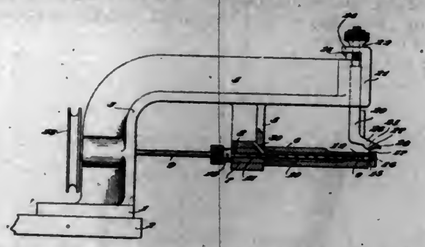
1. In combination with a barrel having a reduced opening at one end and an inclined seat surrounding the opening, a rod gripping ring slidable in the barrel having an enlarged outer portion including flat end faces adapted for contact with said seat, a relatively thin inner portion comprising flat end walls inset from said end faces and a concave inner wall surrounding the ring opening between said end walls and having annular edge forming gripping teeth.

1,754,817. AIRCRAFT. ISAAC COVINO, West New York, N. J. Filed Oct. 2, 1929. Serial No. 396,854. 1 Claim. (Cl. 244—14.)



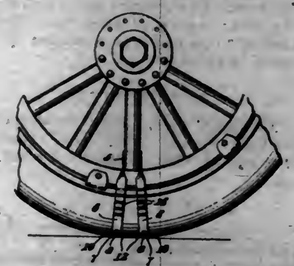
An aircraft having a combination of a main body similar to a boat, tandem planes and horizontal rudder, tractor and pusher propulsion, whose motive power and its respective propulsion is located underneath main supporting tandem planes and supported by shorter planes located midway body of boat and underneath main supporting planes, all substantially as described.

1,754,818. APPARATUS FOR USE IN TRIMMING HOLLOW PEDIFORM ARTICLES. WILLIAM J. DE WITT, Auburn, N. Y., assignor to The Shoe Form Co., Inc., Auburn, N. Y., a Corporation of New York. Filed Jan. 30, 1929. Serial No. 336,146. 2 Claims. (Cl. 164—60.)



1. Apparatus for trimming surplus material from hollow pediform articles made of sheet material comprising a rotary disk cutter, a shaft upon which the cutter is mounted, means for rotating the cutter shaft, and means for supplying a lubricating medium along the cutter shaft to the cutter to reduce friction between the cutter and the work.

1,754,819. AUTOMOBILE TIE-DOWN DEVICE. EDWARD S. EVANS, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich., a Corporation of Delaware. Filed Oct. 31, 1921. Serial No. 511,599. 9 Claims. (Cl. 188—32.)



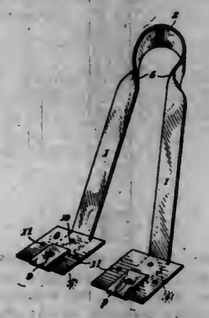
1. In an anchoring device of the class described, an elastically extensible strip formed into a loop and having angularly bent ends providing floor engaging feet, and securing plates having spaced openings through which said feet are threaded.

1,754,820. AUTOMOBILE TIE-DOWN DEVICE. EDWARD S. EVANS, Detroit, Mich., assignor to E. S. Evans & Co., Inc., Detroit, Mich., a Corporation of Delaware. Filed Feb. 16, 1922. Serial No. 536,989. 38 Claims. (Cl. 188—32.)



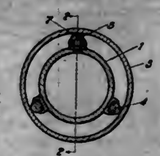
1. An anchoring device for wheeled vehicles comprising a member intermediately return bent to embrace a wheel spoke and legs at each side of said return bend extending at an angle to the return bent portion and terminating in feet engageable with a surface to form an attaching means, said feet comprising end portions bent at an angle to said legs and return bent into flat engagement to form the feet of double thickness and adapted to have nails driven therethrough.

1,754,821. AUTOMOBILE TIE DOWN. EDWARD S. EVANS, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich., a Corporation of Delaware. Filed Oct. 9, 1924. Serial No. 742,592. 4 Claims. (Cl. 188—32.)



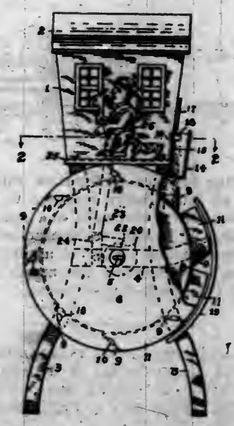
1. Anchoring means for motor vehicles comprising a tie down formed of a strip of material bent to provide anchoring feet, each having a base and a return bent portion, and a foot plate having a slot therein to receive the tie down foot with portions of the foot lying below and above the foot plate.

1,754,822. SUCTION TABLE ROLL. HILAND R. FARNSWORTH, Sandusky, Ohio, assignor to The Paper & Textile Machinery Company, Sandusky, Ohio. Filed Mar. 26, 1928. Serial No. 264,639. 9 Claims. (Cl. 92—53.)



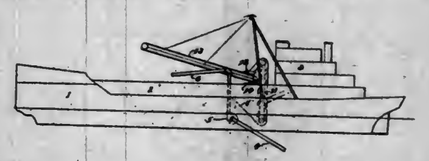
1. A suction roll of the character described comprising a suction tube, a perforate shell revoluble on said tube, an element extending longitudinally of said tube and provided with passages establishing communication between the inside of said tube and the perforations of said shell, said element being in free running contact with said shell.

1,754,823. TOY. FRANK J. GORIUP, Pittsburgh, Pa., assignor to Wolverine Supply & Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 20, 1929. Serial No. 364,357. 2 Claims. (Cl. 46—40.)



1. In a toy "water-mill," the combination of a wheel arranged to rotate on a horizontal axis and provided with buckets, a sand hopper located above the wheel, controlled means for gravity discharge of sand from the hopper into the buckets of the wheel whereby to rotate the wheel, a movably mounted mechanical figure, a bell-crank lever having its upper end pivotally connected to the figure, means whereby the rotation of the wheel causes a rocking of the bell-crank lever whereby to move the figure and a horizontal platform over which said figure trails in its movements whereby said figure is prevented from material tilting.

1,754,824. BOAT-UNLOADING MECHANISM. EDWARD M. GRAVES, Cleveland Heights, Ohio. Filed Apr. 3, 1926. Serial No. 99,562. 2 Claims. (Cl. 214—15.)



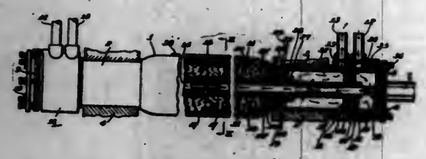
1. In a boat, a substantially flat cargo deck, a cargo hopper at one end thereof and having its mouth extending thereacross at substantially the same level, means for delivering cargo from said deck to said hopper mouth, elevating means for delivering cargo from said hopper to a point directly above the mouth thereof, and swinging conveying means having its receiving end arranged below the delivery point of said elevating means and adapted to convey the cargo to either side of the boat.

1,754,825. FOAM PRODUCTION. HERMAN HEUSER, Chicago, Ill. Filed May 24, 1926. Serial No. 111,881. 5 Claims. (Cl. 99—11.)

1. The method of producing a foam-producing substance comprising subjecting a protein in aqueous solution suc-

cessively to alkali and acid hydrolytic conversion and terminating the conversion process when the conversion products have a high foam-producing capacity.

1,754,826. FLUID-COOLED ROLL. HALBERT K. HITCHCOCK, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Jan. 17, 1928. Serial No. 247,367. 6 Claims. (Cl. 257—95.)



1. In a cooling roll, the combination with a cylindrical outer casing, an inner casing mounted to turn with the outer casing concentric therewith and spaced away from the outer casing to provide a chamber between the two casings, a body of metal fusible at a relatively low temperature filling said chamber, and means for circulating a cooling fluid through the inner casing.

1,754,827. WATERPROOFING COMPOSITION. ALBERT W. HOLMBERG, South Orange, N. J., assignor to American Rubber Company, Boston, Mass., a Corporation of Massachusetts. Filed May 4, 1925. Serial No. 28,016. 4 Claims. (Cl. 134—17.)

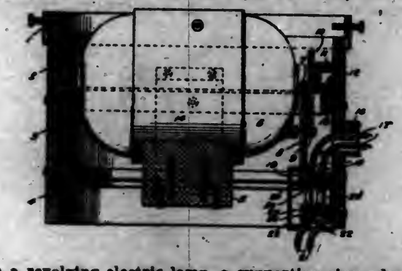
1. A composition for forming a waterproofing coating comprising an aqueous dispersion of rubber containing an emulsion of wax and spindle oil.

1,754,828. HYDROCARBON BURNER. ALBERT H. KELSALL, San Diego, Calif. Filed Nov. 2, 1925. Serial No. 66,256. 5 Claims. (Cl. 299—126.)



1. In a burner structure, a large tubular conductor, a fuel conducting tube positioned centrally therein and extending to near the outer end thereof, said fuel conducting tube being provided in its side walls intermediate its end with fuel discharge orifices, a shoulder bearing screw secured at its threaded end centrally into the normal forward end of said conducting tube and closing said end, and a vaned member revolubly mounted on the bearing portion of said shoulder screw and enclosed partially by the wall of said large tubular conductor at the discharge end thereof, the outer portion of said vane member extending beyond said conducting tube.

1,754,829. REVOLVING LAMP FOR GASOLINE PUMPS. ERNEST KEEMA, Maspeth, N. Y. Filed July 27, 1928. Serial No. 295,772. 1 Claim. (Cl. 240—49.)



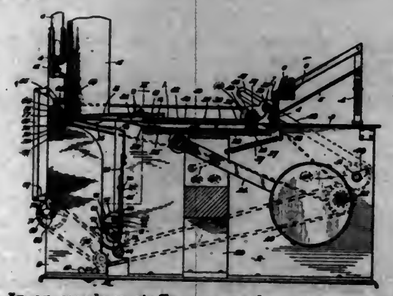
In a revolving electric lamp, a supporting ring adapted to be stationarily mounted upon a supporting post, a second supporting ring, means securing the second supporting ring to the first supporting ring, said second ring being spaced above the first ring, a third ring supported and guided for rotation between the first and second rings and carrying lamp supporting arms, and means mounted within said rings for rotating the lamp supporting ring.

1,754,830. UNDERREAMER. JOHN W. MACCLATCHIE, Compton, Calif. Filed Nov. 20, 1926. Serial No. 149,582. 9 Claims. (Cl. 255—73.)



1. A reamer comprising rotatable supporting means having an axially offset portion forming a mandrel which is non-rotatably fixed relative to the supporting means, and a cutter non-rotatably mounted on the offset mandrel for eccentric rotation of the cutter by the supporting means.

1,754,831. AUTOMATIC ENVELOPE-STUFFING MACHINE. JAMES H. MARSH, Kansas City, Mo. Filed May 11, 1927. Serial No. 190,518. 17 Claims. (Cl. 93—6.)



1. In an envelope stuffer, an envelope support, adapted to hold an envelope with its mouth distended, and means

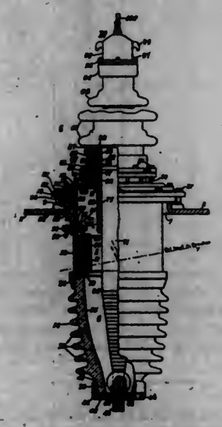
operable between the planes of the sides of the distended mouth for advancing a circular into the envelope and for effecting movement of the stuffed envelope through direct contact only with the trailing edge of said circular.

1,754,832. STALK CUTTER. WILLIAM A. MARTIN, Fort Worth, Tex., assignor of one-half to J. B. Blackman, Fort Worth, Tex. Filed July 11, 1927. Serial No. 204,928. 2 Claims. (Cl. 56—60.)



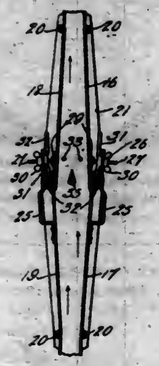
1. A stalk cutter comprising a wheeled truck provided with an arched axle and a horizontal frame, a working shaft and bearings rigid with said arched axle for said working shaft, gearing for driving said working shaft from the wheels of said truck, hangers suspended from said working shaft and a bearing bar carried thereby; a substantially vertical shaft journaled in said bearing bar and a bearing rigid with said arched axle for the upper end of said vertical shaft, beveled gear wheels on said working shaft and vertical shaft for driving said vertical shaft, stationary cutters attached to said truck, rotary cutters mounted on and driven by said vertical shaft and cooperating with said stationary cutters and a bar attached to said horizontal frame for varying the angle of said shaft and hangers.

1,754,833. HIGH-VOLTAGE STRUCTURE. JESSE E. MATZEE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 19, 1927. Serial No. 192,589. 23 Claims. (Cl. 175—358.)



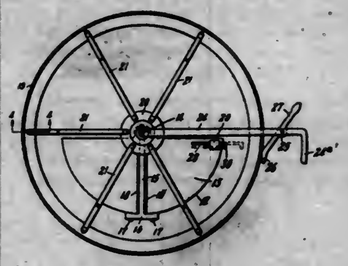
1. A high-voltage structure comprising a wall member having a bushing opening therethrough, a casing of substantially cup-shape embodying an insulating portion and disposed locally about the bushing with its open-end perimeter secured to the wall member around said opening, a complete bushing unit having a portion in said casing and conducting means extending through the bushing and the casing.

1,754,834. SEPARATING MACHINE AND PROCESS OF SEPARATING MATERIALS. CHARLES B. MCNEAL, Forestville, N. Y. Filed Aug. 12, 1927. Serial No. 212,487. 14 Claims. (Cl. 209—139.)



11. The process of separating materials which consists of subjecting the material to be separated to an upwardly flowing current of air to remove particles from said material, causing the air and said particles to flow upwardly in a substantially imperforate duct, the walls of which decrease the velocity of the air near said walls, and deflecting the heavier of said particles toward said walls to cause the same to drop by gravity through the air near said walls against the direction of current of air.

1,754,835. WHEELBARROW. HERBERT B. NEWTON, Brookline, Mass. Filed Jan. 21, 1928. Serial No. 248,335. 8 Claims. (Cl. 298—8.)



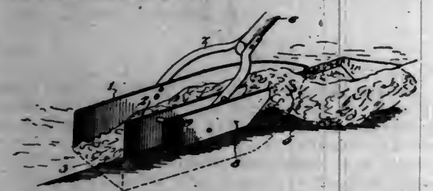
1. A wheelbarrow comprising a bucket, alined axle arms fixed to the bucket and projecting from opposite sides of the mouth portion thereof, so that the center of gravity of the bucket is at one side of the axial line of said arms, a wheel having spaced apart hubs mounted to rotate on the axle arms, the wheel being formed as an open cage enclosing the bucket, and adapted to permit the loading and unloading thereof, propelling means engaged with the axle arms, the arrangement being such that the bucket is supported wholly by the wheel, with its center of gravity below the axial line of the axle arms, and a coupling member carried by the bucket and engageable with a member of the wheel, to cause a dumping movement of the bucket when the wheel is turned.

1,754,836. TIRE. FRANK G. SCHENUIT, Baltimore, Md. Filed Apr. 23, 1924. Serial No. 708,337. 1 Claim. (Cl. 152—18.)



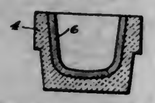
A cushion tire formed of comparatively inextensible material having side walls with a compressible ridge narrower than and extending around the inner periphery of said side walls for engagement with a tire receiving rim.

1,754,837. GUTTER CUTTER. JAMES B. SCULLIN, Parkersburg, W. Va. Filed May 8, 1928. Serial No. 276,117. 1 Claim. (Cl. 97—227.)



A gutter-forming tool consisting of a sheet metal blank including straight parallel inner and outer side walls, and a bottom connecting the lower edges of the side walls, the inner wall being of greater depth than the outer wall and the bottom and the outer wall extending rearwardly beyond the inner wall, the rear extension of the bottom curving upwardly and the rear extension of the outer wall curving laterally and being secured to the upwardly curved extension of the bottom and forming therewith a rear deflecting wall and defining a large lateral discharge space at the rear end of the inner wall, the entire inner edge of the bottom and its extension being in the same vertical plane with the inner side wall whereby to bear against the edge of a walk and guide the tool at work.

1,754,838. GLASS-MELTING POT. LEE SHOWERS, Charleroi, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Nov. 3, 1927. Serial No. 230,817. 3 Claims. (Cl. 49—60.)



1. A poured glass melting pot of clay composition comprising an outer layer and an inner layer both of substantially the same batch except that the materials of the inner layer are more finely ground than those of the outer layer.

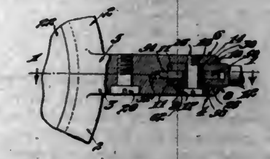
1,754,839. PACKAGE AND METHOD OF FORMING THE SAME. ELMER LOVELL SMITH, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Filed Feb. 18, 1927. Serial No. 169,321. 3 Claims. (Cl. 206—46.)

1. A package comprising an article and a wrapper enclosing the article, the marginal edges of the wrapper being overlapped along one face of the article, one of said edges being doubled back so as to lie against the main body of the wrapper, and the other of said edges overlying the first-



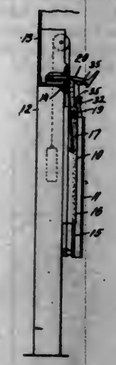
named edge and extending beyond it onto the main body of the wrapper, said marginal edges being adhesively secured to each other and to the main body of the wrapper.

1,754,840. OPHTHALMIC MOUNTING AND METHOD. FREDERICK ARTHUR STEVENS, Providence, R. I. Filed Oct. 16, 1924. Serial No. 743,957. 28 Claims. (Cl. 88—53.)



7. An ophthalmic mounting having, in combination, a split lens rim having end pieces the terminal portions of which are reduced in thickness, a temple having ears mounted between the terminal portions, and a plate interposed between the ears, the plate being movable with respect to and between the ears.

1,754,841. DOOR MECHANISM. CHARLES C. TOMKINSON, Plainfield, N. J., assignor, by mesne assignments, to J. Edward Ogden Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 27, 1926. Serial No. 157,118. 37 Claims. (Cl. 20—19.)



1. A door comprising a plurality of sections arranged for relative vertical movement and for movement vertically and laterally in unison, locking means for said door comprising a device pivoted to one of said sections and means movably mounted on a fixed support and adapted to coact with said device.

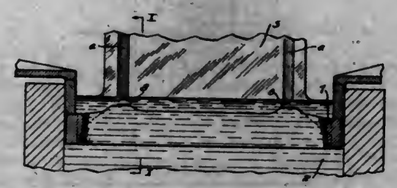
1,754,842. CONCENTRATING RUBBER LATEX. ISIDOR TRAUBE, Berlin-Charlottenburg, Germany, assignor to The Naugatuck Chemical Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Sept. 3, 1924, Serial No. 735,602, and in Germany Oct. 23, 1923. 10 Claims. (Cl. 18—50.)

3. The process of separating rubber from latex which consists in bringing the latex into contact with organic colloids, allowing the latex to separate into two layers, applying the concentrated rubber latex to a surface of an organic colloid jelly and allowing the rubber substance to become a coherent layer.

1,754,843. FIREPROOF WALL BOARD AND PROCESS OF PRODUCING THE SAME. FERNANDO SOMOZA VIVAS, New York, N. Y., assignor to International Fireproof Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 8, 1927. Serial No. 225,038. 5 Claims. (Cl. 92—21.)

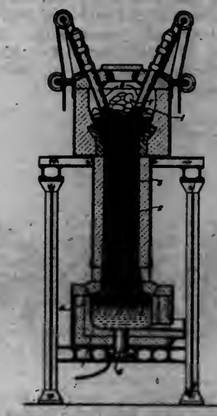
1. A wallboard comprising a porous body of cellulose material impregnated with an insoluble calcium resinate soap binder.

1,754,844. APPARATUS FOR DRAWING SHEET GLASS. JOHN A. WATT, Clarksburg, W. Va., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed Apr. 4, 1928. Serial No. 267,209. 2 Claims. (Cl. 49—17.)



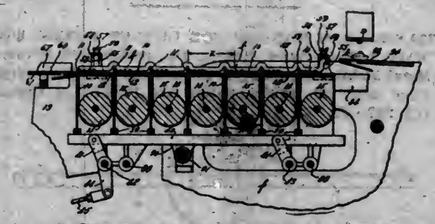
2. The combination with a machine for drawing a glass sheet continuously from a bath of molten glass, of a draw bar of refractory material submerged in the glass beneath the line of generation of the sheet and extending entirely across the bath with humps or shoulders located directly beneath the outer portions of the sheet a short distance inward from the extreme outer edges thereof, said humps approaching nearer to the surface of the bath than do the portions of the bar lying on both sides of the projections.

1,754,845. SLAG-REDUCING PROCESS. THADDEUS F. BAILY, Alliance, and LAWRENCE G. PRITZ, Canton, Ohio; said Pritz assignor to said Baily. Filed Jan. 28, 1928. Serial No. 250,223. 5 Claims. (Cl. 75—225.)



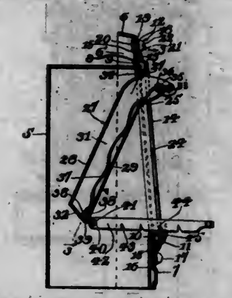
1. That process in the reduction of the oxides of a slag of the character described, which consists in charging basic and acid slag in such proportion as to obtain the desired mixture of ferro-alloy containing phosphorus, manganese, iron and silicon as desired, and melting and reducing them by passing the slag through a carbonaceous resistor material through which electric current is passed.

1,754,846. FEEDING APPARATUS FOR CONFECTIONERY MACHINES. ALONZO LINTON BAUSMAN, Springfield, Mass. Filed Oct. 31, 1927. Serial No. 229,978. 11 Claims. (Cl. 198—30.)



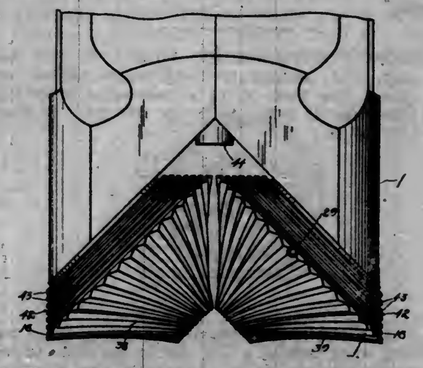
1. A feeding device for a confectionery machine, comprising, a flexible member adapted in one stretch of its travel to receive and carry confections, intermittently operable means for moving said member first in one and then in the opposite direction, a stop mounted to move into and out of the path of the confections carried by said member and in a path closely adjacent one end of said stretch, and intermittently operable means for moving said stop first in one and then in the other direction, said last named means operable to move the stop during periods of rest of the first named means.

1,754,847. REGISTER. CHARLES ALBERT BESCH, La Crosse, Wis. Filed Mar. 31, 1928. Serial No. 266,358. 13 Claims. (Cl. 98—109.)



1. A damper for a register having an adjustably mounted body portion providing a receptacle for a humidifying agent, said receptacle open at its top.

1,754,848. ROLLER-CUTTER DRILL. CLINTON H. BULL, Columbus, Ohio, assignor of one-half to Clarence C. Le May, Columbus, Ohio. Filed Jan. 14, 1926. Serial No. 81,243. 5 Claims. (Cl. 255—71.)



1. The combination with a rotary drill head, a spindle carried by the head, a bearing removably mounted on the

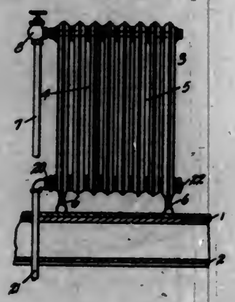
spindle, a cutter rotatably mounted on the bearing, and a washer interlocked with the bearing and capable of being rotated to apply or remove the bearing from the spindle.

1,754,849. BAR HANGER FOR OUTLET BOXES, ETC. MARTIN M. CLAYTON, Beaver, Pa., assignor to National Metal Molding Company, a Corporation of Pennsylvania. Filed Mar. 28, 1925. Serial No. 17,538. 2 Claims. (Cl. 247—22.)



1. A bar hanger for electrical outlet boxes, etc., comprising a single metallic strip longitudinally folded to form a pair of resilient leaves projecting from the fold on divergent lines, in combination with means connected to the box engaging said leaves and putting them under compression to cause frictional engagement between the engaging means and the strip.

1,754,850. RADIATOR. HARRY B. DE LONG, Spokane, Wash. Filed June 20, 1927. Serial No. 199,995. 1 Claim. (Cl. 257—151.)



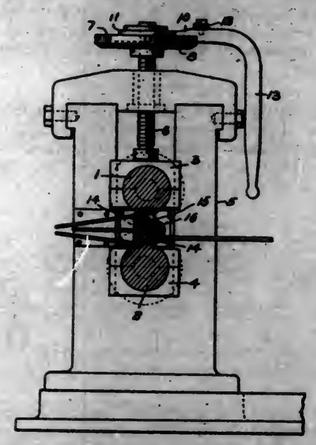
The combination with a sectional radiator having an inlet pipe connected to the top of an end section and an outlet pipe connected at the bottom of said section, of bushings supported in the upper portion of the radiator and spaced lugs in said bushings, a steam pipe supported in said bushings and adapted to receive steam from the inlet pipe, and said steam pipe having a pair of tapered end tongues supported by the lugs of one bushing and lateral openings within the radiator for the emission of steam.

1,754,851. PLATE FRAME. WILLIAM H. DEY, Montclair, N. J., assignor to United States Radium Corporation, New York, N. Y., a Corporation of Delaware. Filed May 4, 1928. Serial No. 275,015. 13 Claims. (Cl. 90—17.)



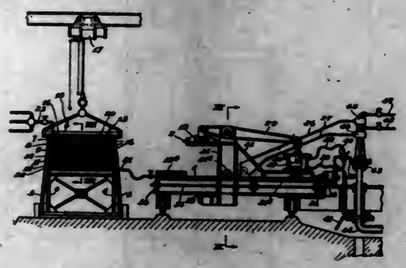
1. A display device comprising an open center frame having walls defining a slot, one of the walls having a part partially overhanging the slot to form a restricted entrance thereto, a pair of plates of substantially the same thickness received in the slot, one of these plates lying beneath said overhanging part, and held there by the second plate, said second plate lying opposite the opening to the slot and means at the rear of the frame and within the lateral margin thereof for attaching it to an object.

1,754,852. MECHANISM FOR OPENING SHEETS. ROBERT EDWARDS, Martins Ferry, Ohio. Filed Oct. 24, 1923. Serial No. 670,513. 4 Claims. (Cl. 29—17.)



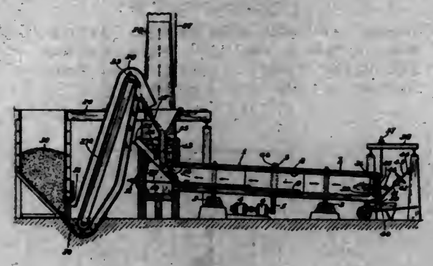
1. In a machine for opening packs of sheets the combination with a pair of driven rolls of a plurality of rolls disposed intermediate said driven rolls and adapted to cooperate therewith, the axes of said last named rolls being in a plane substantially coincident with the axes of said driven rolls and being further adapted for displacement relative to the driven rolls in response to variations in the thickness and number of sheets passing between the driven and intermediate rolls.

1,754,853. APPARATUS FOR MAKING COMPOSITE GLASS. JOHN H. FOX and WILLIAM OWEN, Pittsburgh, Pa., assignors to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Original application filed Dec. 17, 1926, Serial No. 155,425. Divided and this application filed Aug. 1, 1928. Serial No. 296,779. 3 Claims. (Cl. 18—17.)



1. Apparatus for applying pressure to a plurality of sets of glass sheets with interposed layers of reinforcing material comprising a carrier mounted for movement, a plurality of presses mounted on the carrier and each consisting of a base in fixed position on the carrier, and a presser head and power means therefor mounted on the carrier for movement transversely of the base, so that in one position the head lies over the base and in another position it lies to one side of the base.

1,754,854. CALCINING APPARATUS. FREDERICK GELSTHARP, Tarentum, Pa., assignor to Pittsburgh Plate Glass Company, a Corporation of Pennsylvania. Filed May 17, 1928. Serial No. 278,392. 5 Claims. (Cl. 263—38.)



2. In combination in calcining apparatus, an inclined rotary drum, a supply hopper adjacent the higher end of the drum, a supply pipe leading from the hopper into such higher end, means for supplying heated gases of combustion at the lower end of the drum, a chamber surrounding said pipe into which the higher end of the drum opens and having an outlet independent of said pipe, and means for withdrawing the gases of combustion from said chamber through said outlet, an opening being provided in said pipe intermediate its ends leading into the chamber so that a portion of the gases of combustion are drawn through the outer end of the pipe.

1,754,855. LIGHT. GEORGE GRAFF, Toledo, Ohio, assignor, by mesne assignments, to The Dura Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 14, 1927. Serial No. 233,156. 3 Claims. (Cl. 240—7.4.)



1. A light for the interior of vehicle bodies comprising a shallow stamped sheet metal body having a peripheral portion adapted for engagement with the vehicle body, the body having a portion projecting forwardly beyond its periphery and formed with a forwardly opening recess, a light bulb substantially housed within said recess, and a socket for the bulb projecting rearwardly beyond the periphery of the body.

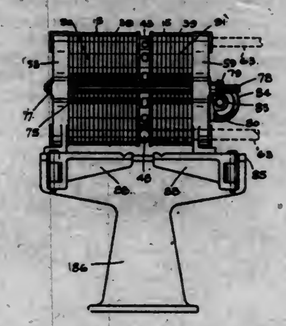
1,754,856. BRUSH WRINGER MOP. STACEY A. HAINES, Lakewood, Ohio, assignor, by mesne assignments, to Harry E. Duer, North Olmsted, Ohio. Filed Aug. 17, 1927. Serial No. 213,551. 2 Claims. (Cl. 15—116.)

1. In a mop, a combination with a handle of a cloth carried thereby, a sleeve mounted for movement along the handle, a curved hollow casing associated with the sleeve and having one end thereof opening toward the cloth and in a direction extending longitudinally of the handle, said casing having the other end extending at right angles to the handle, means projecting out of the first mentioned



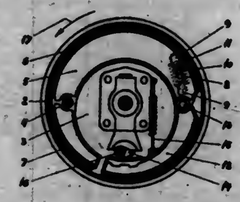
opening for engaging the cloth, a crank associated with the second named opening, and mechanism within the casing for connecting said means and crank.

1,754,857. HEAT-EXCHANGE APPARATUS. ALBERT DEK HARRISON, Montreal, Quebec, Canada. Filed Apr. 10, 1929. Serial No. 354,115. 10 Claims. (Cl. 257—245.)



1. In heat exchange apparatus, a plurality of course plates alternating with plain separating plates and forming parallel courses and having ports within the circumference of the plate forming passages for said parallel courses across plate groups on respective sides of the course plates.

1,754,858. MOTOR-VEHICLE BRAKE. POUL ARNE SCOTT IVERSEN, Copenhagen, Denmark. Filed Dec. 14, 1927, Serial No. 239,993, and in Germany Sept. 9, 1927. 5 Claims. (Cl. 188—78.)



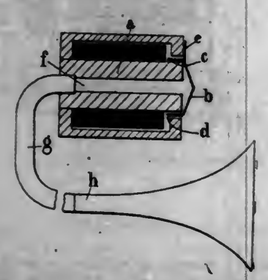
5. In a motor vehicle brake, a brake drum, and a single crescent-shaped brake block within the drum rotatably mounted adjacent one end on a stationary pivot to provide two braking surfaces at opposite sides of the pivot which are eccentric to each other.

1,754,859. LUBRICATING SYSTEM. GEORGE DOUGLAS JONES, Sacramento, Calif., assignor to Charles Moreing, Sacramento, Calif. Filed Nov. 29, 1926. Serial No 151,337. 17 Claims. (Cl. 184—7.)



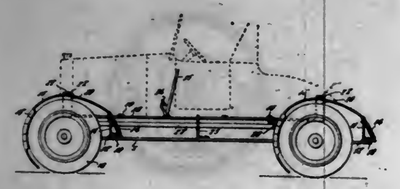
1. An oiling system for machine bearings, comprising a lubricant reservoir, a conduit leading from said reservoir to a bearing, means for intermittently applying and relieving pressure on the lubricant in said conduit, a spring seated valve in said conduit for closing the passage in said conduit when pressure on the lubricant is relieved, another valve in said conduit nearest said reservoir seated by lubricant pressure and normally maintained in open position when pressure on the lubricant is relieved said pressure seated valve closing the passage only when seated, and means for positively spacing said valves, the reciprocal movement of said valves being adjustable to define the quantity of lubricant, delivered to the bearing during each pressure operation.

1,754,860. TELEPHONIC LOUD-SPEAKER. FREDERICK WILLIAM LANCHESTER, Moseley, Birmingham, England. Filed May 25, 1929, Serial No. 366,003, and in Great Britain Apr. 14, 1928. 3 Claims. (Cl. 181—27.)



1. A loud speaker comprising a sound producing mechanism, an amplifying horn and an interconnecting conduit of constant bore and of length at least one quarter of the wave length of the deepest tone which it is required to amplify.

1,754,861. VEHICLE BRAKING APPARATUS. TAY H. LEE, Evanston, Ill. Filed July 10, 1928. Serial No. 291,611. 5 Claims. (Cl. 188—4.)



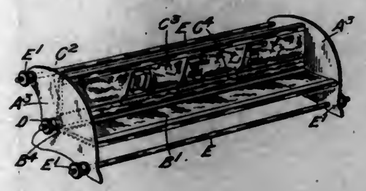
1. An apparatus of the class described, including a stationary frame structure, means for mounting the frame structure on a vehicle, a movable frame structure, a plurality of flexible strap like checkers, one for each wheel of the vehicle, means for hingedly engaging the checkers with the stationary frame, a movable frame, means engaging the movable frame with intermediate portions of the checkers, spring means associated with the checkers holding them normally in a predetermined position, spring means associated with the movable frame holding it in a normal predetermined position.

1,754,862. APPAREL SUSPENSION. ARTHUR HAROLD MOGINIE, Sydney, New South Wales, Australia. Filed Feb. 10, 1927, Serial No. 167,294, and in Australia Feb. 26, 1926. 1 Claim. (Cl. 24—225.)



An apparel suspender comprising a front sheet metal plate, a rear sheet metal plate disposed above the front plate, each of said plates having corrugations disposed thereon, a screw having a fast pitch thread, secured to the rear plate and adapted to freely pass through an opening in the front plate, a nut for said screw, distance pieces disposed upon the upper portions of the plates and adapted to prevent side movement thereof, and a flat spring arranged to impart parallel movement for the purpose of separating the plates, said flat spring being secured to the rear plate and having an opening through which the screw is adapted to pass.

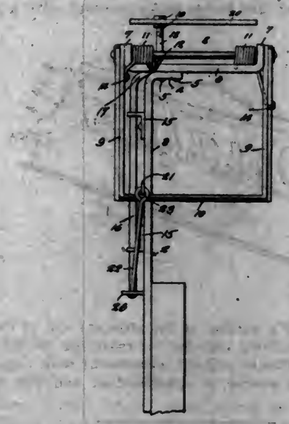
1,754,863. DISPLAY SIGN. NORMAN BERNARD MACKENZIE O'BRIEN, London, England, assignor, by mesne assignments, to Autolux Sign Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 14, 1928, Serial No. 319,268, and in Great Britain Nov. 25, 1927. 13 Claims. (Cl. 40—130.)



10. In a display sign, the combination of a light-absorbing background, a main reflector arranged at an angle thereto, an interchangeable reflecting legend, and means for supporting said legend in one or more planes between and at an angle to the main reflector and background.

1,754,864. BIRD TRAP. FRED C. RALPH and CHARLES OUTWAIT, Erie, Pa. Filed July 13, 1928. Serial No. 292,541. 1 Claim. (Cl. 43—88.)

A trap comprising a frame, spring-closed jaws pivoted to the frame, a trigger, means for mounting the trigger for right-line sliding movement on the frame, spaced latches between which the jaws are held when the jaws are swung downwardly to set position, means for pivotally mounting the upper ends of the latches pivotally on the frame, the trigger being provided at its lower end with seats wherein the lower ends of the latches are detachably received, and a perch on the upper end of the trigger and so located that an animal thereon will be caught by the

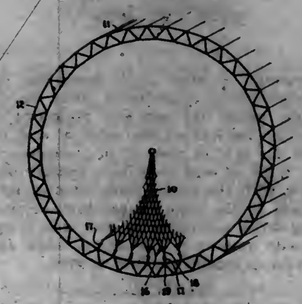


jaws when the jaws close, the weight of the animal on the perch serving to move the trigger downwardly and disengage the seats from the latches.

1,754,865. ALDOL CONDENSATION PRODUCT AND VULCANIZATION OF CAOUTCHOUC THEREWITH. LORIN B. SEBRELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 10, 1924. Serial No. 749,040. 7 Claims. (Cl. 18—58.)

6. A method of treating rubber which comprises subjecting it to vulcanization in the presence of a reaction product of acetaldol and a material selected from a group comprising orthotoluidine, para toluidine, amino xylene, aniline and benzylamine.

1,754,866. BULKHEAD FOR AIRSHIPS. WILHELM SIEGLE, Friedrichshafen, Germany, assignor to Goodyear Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed May 6, 1929. Serial No. 360,919. 10 Claims. (Cl. 257—245.)



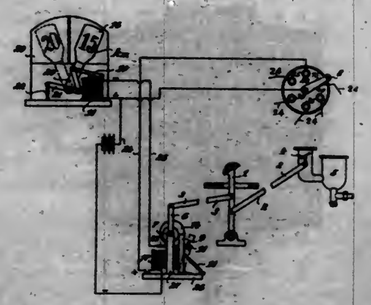
1. In an airship comprising a rigid hull of constant circumference, a bulkhead composed of intermeshing strands disposed transversely within the hull and spaced resilient fastening devices connecting outer circumferential portion of the bulkhead to the hull.

1,754,867. SLIDING CATCH. PAUL STOJA, Kloster Wennigsen am Deister, Germany. Filed Jan. 12, 1928, Serial No. 246,298, and in Germany Jan. 12. 1927. 1 Claim. (Cl. 43—83.)



An animal trap comprising a base, a trigger pivotally mounted on the base, said trigger having its rear end extended vertically and provided with a slot, a coil spring seated in a recess in the base directly below the trigger, said spring tending to rock the trigger on its pivot, a latch lever pivotally mounted at one end of the base and provided on its upper edge with a cam slot, a finger formed on the forward end of the latch and engaging the slot of the trigger, said forward edge of the lever being formed with a narrow flange and a shoulder, said flange adapted to engage the upper wall of the slot when the trap is in set position, said shoulder engaging the vertical wall of the trigger and acting as a stop against the action of the spring, a spring-actuated frame pivoted to the base, the cross bar of the frame engaging the cam slot of the latch lever when said trap is in set position, whereby rocking movement of said trigger will release the flange of the lever and allow the cross bar to ride out of the cam slot and swing through its arc.

1,754,868. DEVICE FOR INDICATING AND CONTROLLING THE SPEED OF MOTOR VEHICLES. AUGUST WEHLING, Cologne-Sulz, Germany. Filed Dec. 2, 1926, Serial No. 152,291, and in Germany Feb. 9, 1926. 2 Claims. (Cl. 137—139.)

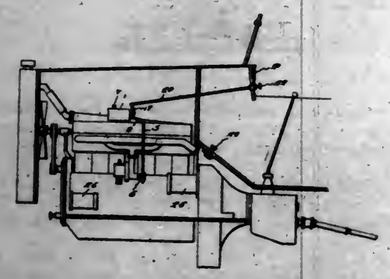


1. A device for controlling the speed of motor vehicles, comprising a plurality of electromagnet circuits, an equal number of spring-returned pivoted bars adapted to be attracted by said electromagnets when energized, means for energizing any particular electromagnet circuit at will, a plurality of cam discs equal in number to the electromagnet circuits, and co-operating with and limited in their rotation by said pivoted bars, a radial arm limited in its rotation by said cam discs, a foot lever for controlling the supply of gas, a throttle valve, and link mechanism connecting said foot lever with the radial arm and with the throttle valve, substantially as described.

1,754,869. STARTING MEANS FOR INTERNAL-COMBUSTION ENGINES. RALPH WHITLOCK, Borger, Tex. Filed Feb. 11, 1929. Serial No. 339,069. 1 Claim. (Cl. 123—179.)

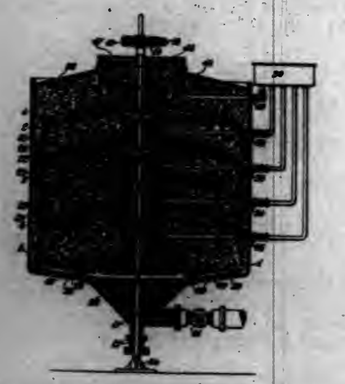
Engine starting means comprising a starter motor, a battery, a pair of electromagnets, a lever pivotally mounted between said magnets, a connection between said bat-

tery and one side of one of the magnets, a switch in said connection, the opposite side of the coil being grounded, a connection between the lever and the usual engine choke, the other magnet being connected to the usual generator of the engine, equalizing springs for said lever



for maintaining the same in partial choking position, the first mentioned magnet being energized when the switch is closed, to cause the lever to operate the choke, the other magnet being energized when the output of the generator is sufficient, so as to pull the lever to an off choke position.

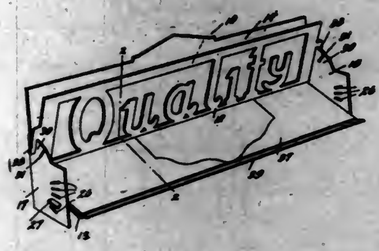
1,754,870. APPARATUS FOR THE SEPARATION OF FINELY-DIVIDED SOLIDS FROM LIQUIDS. JOHN WILFRED WICKES, Tongaat, Natal, South Africa. Filed Feb. 4, 1926, Serial No. 86,001, and in Great Britain Feb. 19, 1925. 12 Claims. (Cl. 210—55.)



1. The herein described method of separating finely divided solids from liquids which consists in introducing liquid carrying solids in suspension into the upper part of a chamber, constraining the said liquid to flow vertically downward through a plurality of chambers superimposed therein, withdrawing clear liquid from the highest zone of the superposed chambers, thereby causing a slow movement of the clear liquid towards the said highest zones and discharging sediment which has settled on the tops of the superposed chambers in a direction to promote the said slow movement of the clear liquid drawn from the said highest zones.

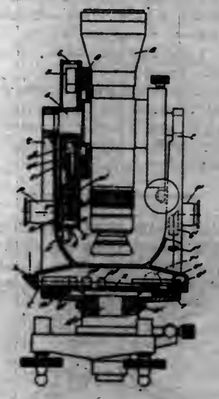
1,754,871. DISPLAY SIGN. WILLIAM P. WISE, Boston, Mass., assignor to Autolux Sign Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 2, 1929. Serial No. 352,018. 10 Claims. (Cl. 40—130.)

1. In a sign, the combination with a legend, of a collapsible support for said legend formed of sheet material and comprising a base, a back serving as a ground for the legend hingedly connected to said base, and side pieces hingedly connected to the back and adapted to be swung forwardly for interlocking engagement with the base, each of said side pieces being provided with a series



of slots in which a portion of the adjacent end of the legend may be selectively inserted for retaining the latter in the desired position of angular adjustment with respect to the ground, the source of illumination, and the eye of the observer.

1,754,872. THEODOLITE AND OTHER ANGLE MEASURING INSTRUMENTS. THOMAS YEOMANS BAKER and RALPH WALDO CHESHIRE, Teddington, England, assignors to Cooke, Troughton & Simms Limited, York, England, a British Company. Filed Feb. 16, 1928, Serial No. 254,868, and in Great Britain Feb. 26, 1927. 5 Claims. (Cl. 88—2.6.)

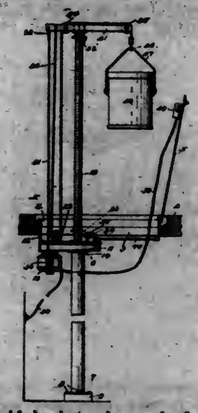


1. A theodolite or other angle measuring instrument having in combination a graduated circle, an eyepiece, a datum mark, means for optically projecting the scale divisions or graduations at one point of said circle into one part of the field of view of said eyepiece and those at another point of said circle into another part of the field of view with the datum mark situated between the adjacent ends of the scale images thus obtained and a fine reading device for displacing said scale images simultaneously with respect to the datum mark and in the same direction as seen in the field of view.

1,754,873. HOISTING MECHANISM. GUY R. BLACKWOOD, Columbus, Ohio, assignor to Capital Lift and Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 15, 1928. Serial No. 285,753. 8 Claims. (Cl. 254—148.)

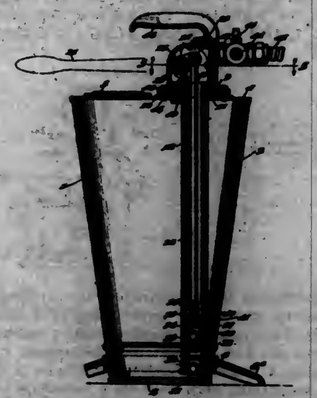
1. In combination with motor driven hoisting apparatus for lifting a bucket through an opening, a switch arranged

for controlling the operation of said motor and a member pivotally carried by the lower edge of said opening and cooperative with said switch and so arranged that upon



the failure of said bucket when raised to register with said opening the switch will be opened and the upward movement of the bucket stopped.

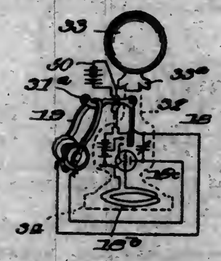
1,754,874. GREASE BUCKET. CLYDE G. BUTLER, Cincinnati, Ohio, assignor to The Cincinnati Ball Crank Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 17, 1928. Serial No. 262,525. 2 Claims. (Cl. 221—80.)



1. A grease dispensing device, comprising, a bucket, a lid for said bucket, a base for said bucket having legs providing greater base contact for the bucket, a pump mounted on the lid having a cylinder extending downwardly into the bucket, the lower end of the cylinder disposed adjacent a portion of the wall of the bucket and adapted to contact the same when the pump is operated in discharge stroke, and a handle for operating said pump extending outwardly over the bucket and over that portion of the wall diametrically opposite said portion contacted by the cylinder.

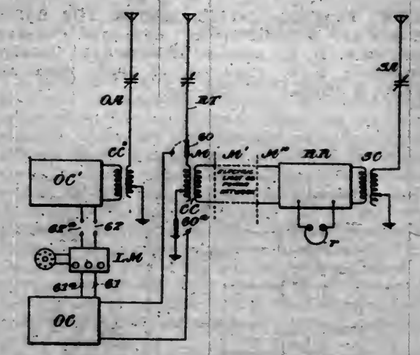
1,754,875. RADIOPHONE DESK SET. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Original application filed Oct. 27, 1922, Serial No. 597,422, Patent No. 1,576,308, dated Mar. 9, 1926. Divided and this application filed Dec. 21, 1923. Serial No. 681,992. 5 Claims. (Cl. 250—20.)

1. A radio telephone receiving system comprising means for relaying modulated carrier waves, to a receiving station, a primary loop or coil connected to receive said relayed waves and to radiate the same, said loop being fixed in a horizontal position and a receiving set related to said primary loop but mechanically detached therefrom,



and movable with respect thereto, said set carrying a secondary or collecting loop so arranged in the set as to be normally held in horizontal position when the receiving set is in a normal operating position.

1,754,876. REGIONAL SYSTEM OF RADIO BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Feb. 9, 1924. Serial No. 691,824. 4 Claims. (Cl. 179—2.5.)

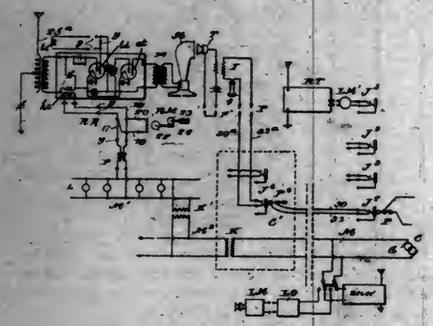


1. In a regional distribution system for radio broadcast, a central station, a wired network extending therefrom to outlying points of consumption, and connected to all of said points in common, subscriber's radio telephone receiving instruments at said points of consumption, means at the central station for transmitting radio frequency waves over said wired network, other means at the same central station to radiate radio frequency waves through the ether, means at the central station for controlling the frequency relation between the two sets of waves such as to produce a given superaudio beat between them when combined, means at each subscriber's station to receive both of said sets of waves, one over the wired network and the other through the ether, with means to heterodyne the same and to detect and reproduce the signal modulations in the subscriber's receiving instrument, said receiving heterodyning and detecting means being permanently tuned to a fixed and predetermined frequency calibrated and locked, whereby no tuning is required to be done by the subscriber.

1,754,877. RADIO TELEPHONE SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Feb. 9, 1924. Serial No. 691,825. 1 Claim. (Cl. 250—6.)

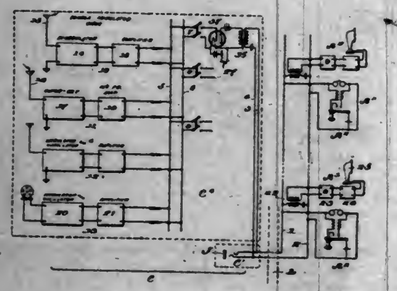
A radio-wire system of broadcast distribution comprising a wired system or network, and subscribers' instru-

ments provided with antenna circuits and connections to said wired network, said circuits and connections being combined on the input side of a detector to heterodyne and produce modulated beat waves on the output side of the



detector, together with means at a central point for broadcasting modulated waves over the wired network, and other means for broadcasting simultaneously, properly related unmodulated waves through the ether.

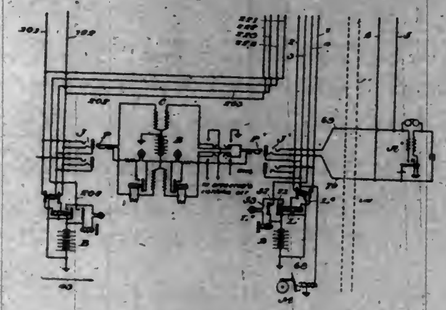
1,754,878. TRAFFIC-CONTROL SYSTEM FOR RADIO BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Feb. 21, 1925. Serial No. 10,916. 5 Claims. (Cl. 250—6.)



5. In a system of radio broadcast distribution, a central station with subscribers' substations connected therewith over line wires, means at the central station for receiving different programs of signals modulated on different radio carrier waves, means for relaying each of said signal programs broadcast to all the substations over said lines without detection of the signals, but on carrier currents of frequencies suitable for line transmission, said frequencies being different from the received frequencies and different for the different programs, and selective tuning and detecting means at each substation operatively connected with its line.

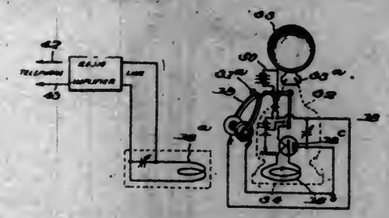
1,754,879. TRUNKING SYSTEM OF RADIO DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Mar. 26, 1925. Serial No. 18,529. 20 Claims. (Cl. 179—2.)

1. In a system of radio broadcast distribution, a telephone central station with subscribers' substations and wire lines interconnecting them, a telephone switchboard and a radio switchboard at said central station, radio receiving means at the central station adapted to be connected to an individual subscriber's line and operable to receive and relay radio matter over the line to the substation at a frequency suitable for line transmission, each line connecting means forming a unit in the radio switchboard and comprising the following elements: a line



switch, actuating means therefor, a line extension circuit leading therefrom to said radio receiving means, a radio busy test circuit for the line, a radio clearing out signal circuit for the line, and terminal means connected with the line for supervisory purposes.

1,754,880. RADIO DESK SET. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Division of application Serial No. 681,992, filed Dec. 21, 1923, which is a division of application Serial No. 597,422, filed Oct. 27, 1922, issued as Patent No. 1,576,308. Divided and this application filed Aug. 1, 1925. Serial No. 47,547. 2 Claims. (Cl. 250—14.)

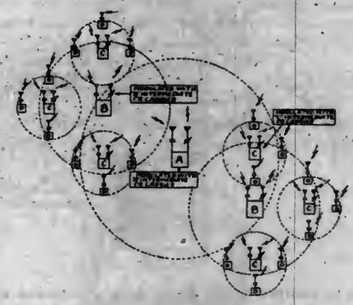


1. In combination with a wire circuit carrying modulated superaudio waves and terminating in a tuned and mechanically fixed primary coupling coil, a mechanically detached, movable and self-contained radiophone receiving set comprising a unitary standard and base, a detector therein, an amplifying horn thereon, a secondary coupling coil therein, in a plane normally parallel with that of said primary coupling coil, circuit wires and connections mounted therein, an audio frequency receiver carried thereon and adapted to be connected with said amplifying horn, and a switch also carried thereon and having contacts included in said circuits, together with a source of current for the detector, the arrangement being such that the coil, detector, receiver, and horn are controlled as to their proper operative relations by the movement of said switch.

1,754,881. RADIO TRUNK SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Aug. 7, 1925. Serial No. 48,866. 1 Claim. (Cl. 250—6.)

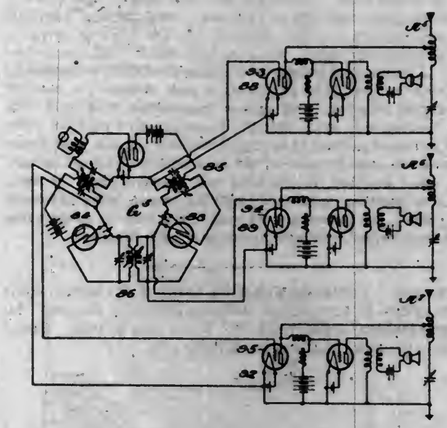
The method of selective signalling between a plurality of transmitting stations and a plurality of receiving stations which consists in permanently allotting to each receiving station a primary carrier wave frequency to which the receiving apparatus at said station is permanently and fixedly tuned, permanently allotting to each of the transmitting stations a particular secondary or intermediate

frequency to which its transmitter is permanently and fixedly tuned, but leaving its primary frequency variable for selective purposes, and leaving the secondary frequency at the receiving stations variable for selective purposes, then causing selection of a desired receiving sta-



tion by a particular transmitting station by first adjusting the frequency of said transmitter to the fixed primary frequency of the desired receiving station, and then causing identification thereat of the transmitting station by tuning to receive the signal on its fixed, secondary, or intermediate frequency.

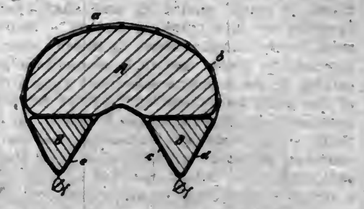
1,754,882. POLYPHASE BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Original application filed Nov. 27, 1926, Serial No. 151,117, Patent No. 1,652,092. Divided and this application filed Nov. 18, 1927. Serial No. 234,140. 5 Claims. (Cl. 250—36.)



1. A polyphase generator comprising a plurality of thermionic tubes connected in tandem for mutual oscillation, with means to produce phase displacement between said tubes.

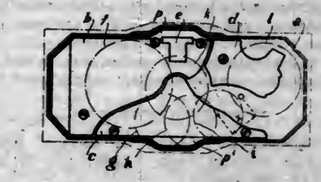
1,754,883. AIRSHIP. WILHELM E. DÖRR, Friedrichshafen, Germany, assignor to Luftschiffbau Zeppelin-Gesellschaft mit beschränkter Haftung, Friedrichshafen, Germany. Filed Apr. 18, 1927, Serial No. 184,504, and in Germany May 15, 1926. 5 Claims. (Cl. 244—6.)

1. An airship comprising two kinds of gas containers, lifting gas in one kind of container, fuel gas of approximately the same specific gravity as air in the other kind of container, and a rigid hull surrounding the lifting gas container for receiving the lifting forces and the loads of



the airship, the fuel gas container being composed of material of relatively light weight and located outside the rigid hull.

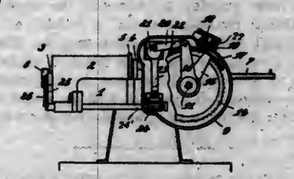
1,754,884. WATCH. EMIL FREY, Bienne, Switzerland, assignor to the Firm Frey & Co., Frey-Uhren Aktiengesellschaft (Frey & Co., Montres Frey, Societe Anonyme) (Frey & Co., Frey Watch Co., Limited), Bienne, Switzerland. Filed Mar. 21, 1929, Serial No. 348,880, and in Switzerland Dec. 22, 1928. 2 Claims. (Cl. 58—88.)



1. A bracelet watch comprising an elongated rectangular case, and an elongated rectangular movement occupying substantially the entire space within the case and the sides of which, for their greatest part, are limited by straight lines; said movement embodying an escapement device, a plate, bridges, a set of intermediate wheels, and a winding stem; at least one intermediate wheel projecting slightly beyond the outer side of the rectangle formed by the movement; the plate and certain of the bridges being provided with lateral swellings that protect the projecting part of the said intermediate wheel, thereby to enable the component parts of the escapement device to be made of abnormally-large size as compared with those of a conventional escapement device for a movement of the same size.

2. A bracelet watch according to claim 1, in which a side of the rectangular case is formed with a slight lateral swelling corresponding to and covering the swelling on the side of the movement.

1,754,885. BUTTER CUTTER. GERHARD FRINGS, Cologne-Sulz, Germany. Filed Aug. 15, 1929, Serial No. 386,037, and in Germany Sept. 2, 1927. 1 Claim. (Cl. 31—14.)



A machine for cutting a butter mass into butter pats, comprising a frame, a butter container removably arranged in the frame and formed with an outlet to shape the butter pats, a piston fitted in said container to exert an endwise pressure on the material therein, a piston rod connected to the piston and extending beyond the container and formed on one edge with a series of teeth to provide a rack, a shaft mounted in the frame beyond the container, a pinion on said shaft cooperating with the rack on the

piston rod, a ratchet wheel fixed on said shaft in spaced relation to the pinion, a second shaft mounted in said frame, a crank carried by said shaft, pawl mechanism operated by said crank to impart a step-by-step movement to the ratchet wheel to thereby operate the piston through the pinion and rack, manually adjustable means carried by the frame to selectively govern the cooperation of the pawl mechanism and ratchet for determining the movement of the ratchet in the operation of said second shaft, a cutter movable across the material outlet of the container to sever the material as it is projected through said outlet, and means operated by said crank to impart a rotary reciprocation to said cutter.

1,754,886. DISPERSED VULCANIZED RUBBER. WILLIAM C. GEER, New Rochelle, N. Y., and HARLAN L. TRUMBULL, Hudson, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 13, 1925, Serial No. 36,940. Renewed Sept. 15, 1928. 14 Claims. (Cl. 18—52.)

1. The herein described process which comprises plasticizing vulcanized rubber with the aid of a rubber softener, intimately admixing with the plasticized rubber a colloidal emulsifying paste to form a relatively smooth paste-like mass, adding a non-solvent liquid to the mass to form a non-viscous creamy liquid, and subjecting the creamy liquid to a comminuting action to reduce the size of the suspended particles to approximately that of rubber latex.

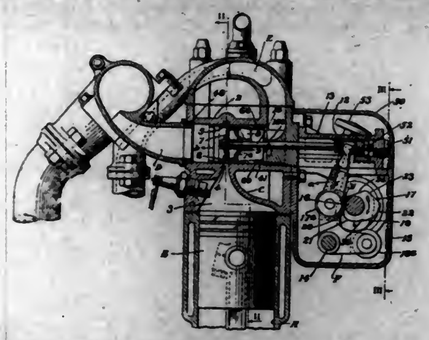
1,754,887. SCOOTER. OLIVER H. GENTRY, Rochester, N. Y. Filed Feb. 20, 1929. Serial No. 341,527. 2 Claims. (Cl. 208—38.)



1. In a scooter, a steering fork and steering head, a cross head on the steering head, a driving wheel and axle therefor mounted to turn in the fork, a crank on each end of the axle outside of the fork, a link connected to each crank, said links passing up through the cross head and having a sliding bearing therein, a handle at the upper end of each link by which the link may be driven, a collar on each link above the cross head, a spring between the collar and the cross head that is compressed on the downward movement of the link and by which the link is drawn up after its crank has passed over the center.

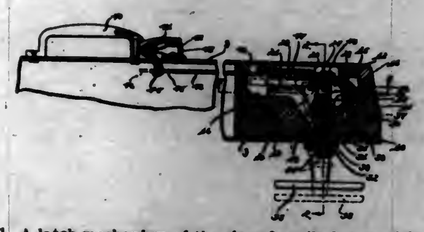
1,754,888. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ROY H. GERARD, San Francisco, Calif. Filed May 31, 1929. Serial No. 367,255. 5 Claims. (Cl. 123—188.)

1. In a device of the character described, a cylinder and a head, said head having a valve chest formed therein, said chest having a cylinder port communicating with the cylinder, one end of said valve chest forming an inlet passage and the other end an exhaust passage, an open ended sleeve valve slidably mounted in the chest, said sleeve having a port formed therein, a piston valve slidably mounted within the sleeve valve, means whereby reciprocal movement is imparted to the piston valve to move it from



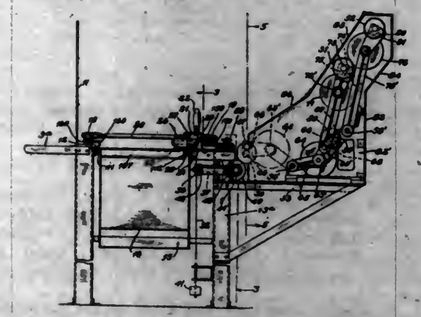
one side to another of the sleeve port, and means whereby movement of the piston valve is transmitted to the sleeve valve to move the port in the sleeve into and out of register with the cylinder port.

1,754,889. LATCH MECHANISM. GEORGE HALINKA, Detroit, Mich. Filed Aug. 10, 1927. Serial No. 211,873. 3 Claims. (Cl. 292—174.)



1. A latch mechanism of the class described, comprising: a latch bolt slidably mounted; a pull member; a cam on said pull member; and means engageable with said cam for moving said latch member to inoperative position upon the outward pulling of said pull member; and a push member on the opposite side of the door with which used, adapted, upon pushing, for moving said latch member to inoperative position, said cam engaging means being arranged to permit the movement of said latch bolt to inoperative position without disturbance of said pull member.

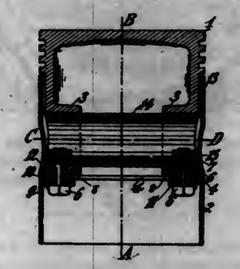
1,754,890. COMBINATION PRINTING CAMERA AND PAPER-SUPPLYING MECHANISM. SAMUEL M. HERSHBERG, Brooklyn, N. Y. Filed July 9, 1926. Serial No. 121,333. 7 Claims. (Cl. 88—24.)



1. The combination with a frame, of a fabric to form a support for paper to be printed by a camera, driving

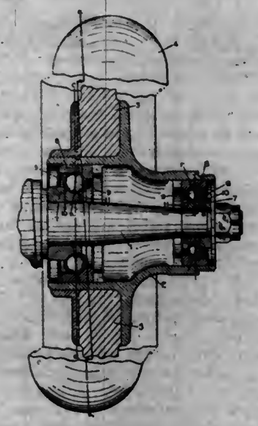
mechanism mounted on said frame and operatively connected to position said movable fabric before printing and withdraw said movable fabric after printing, a bracket mounted on said frame, bearings on said bracket for supporting a roll of sensitized paper, feed rollers secured to said bracket in position to receive the paper from the roll mounted on said bearings, and an operative connection associated wtih said feed rollers, said bracket being pivotally mounted to connect said operative connection with said driving mechanism.

1,754,891. PISTON. RICHARD HILDEBRANDT, Weehawken, N. J. Filed July 21, 1928. Serial No. 294,426. 5 Claims. (Cl. 74—108.)



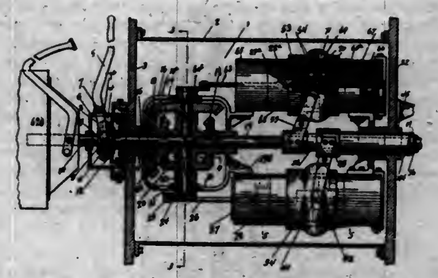
1. A piston comprising a body, a metal shell of substantially the same coefficient of expansion as the cylinder in which the piston works, attached in a heat insulating manner to said body.

1,754,892. BEARING MOUNTING. FREDERICK G. HUGHES, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed May 18, 1922. Serial No. 561,988. 4 Claims. (Cl. 308—191.)



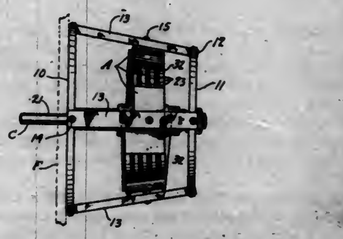
1. In a device of the character described, a spindle, opposed angular contact bearings of different sizes arranged near the ends of the spindle, a wheel hub rotatably supported by said bearings and having its rim-support nearer to the larger bearing, the relative angles of contact of the two bearings being substantially inversely proportional to the radial load on the bearings to equalise the induced end thrusts; substantially as described.

1,754,893. TORQUE CONVERTER. WATSON HURLBURT, Chicago, Ill. Filed Mar. 12, 1928. Serial No. 261,083. 8 Claims. (Cl. 74—34.)



1. In a transmission device, a driving shaft, a driven shaft, a bevel gear fixed to the inner end of each of said shafts, an intermediate gear rotatable about said shafts and about its own axis, said intermediate gear engaging said first-named gears, and means for variably resisting the rotation of said intermediate gear for controlling the relative rotation of said driving and driven gears, said means comprising a cylinder, a partition in said cylinder, a piston at each side of said partition for confining a fluid within said cylinder at each side of said partition, a by-pass for connecting the portions of each piston at each side of said partition, means for varying the size of said by-pass, and yielding means for providing an additional by-pass between the portions of said cylinder at each side of said partition when the pressure in said cylinder exceeds a predetermined amount.

1,754,894. VARIABLE CONDENSER. WILLIAM S. KELLOGG, Peoria, Ill. Filed Jan. 15, 1927. Serial No. 161,278. 4 Claims. (Cl. 175—41.5.)

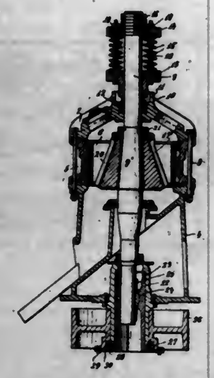


1. A variable condenser comprising a cone-shaped rotor rotatable about a central axis and having an exterior thread, a stator having a complementary hollow conical internally threaded space, and means for feeding the rotor longitudinally of said axis whereby the threads are fed deeper radially into each other as the rotor is fed longitudinally into the stator, and means for insulating said rotor and stator from each other.

1,754,895. GYRATORY CRUSHER. JOSEPH E. KENNEDY, New York, N. Y. Filed Jan. 21, 1928. Serial No. 248,339. 14 Claims. (Cl. 83—10.)

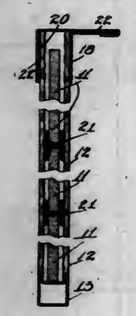
1. In a gyratory crusher, a concave, a crushing head mounted to have gyratory movement and movement in an axial direction and laterally of the axis of the crusher, and yielding means to suspend said crushing head and urge

the head with a predetermined yielding force and constituting a crushing pressure in predetermined position relative to the concave and permit of movement of said head



against such yielding force axially and laterally of the crusher axis by a force applied thereto exceeding such predetermined crushing pressure.

1,754,896. LIGHT-COLORING SCREEN. ALEXANDER M. KNAUBER, Chicago, Ill. Filed Nov. 7, 1927, Serial No. 231,406. Renewed Sept. 23, 1929. 13 Claims. (Cl. 189—76.)



1. A light-coloring screen comprising a frame having a plurality of parallel, fixed and spaced channel bars to receive a plurality of glass plates therebetween; glass plates between adjacent bars and freely slidable therein; and transverse channel bars between the fixed bars and separating the adjacent glass plates, the transverse bars and the plates being removable.

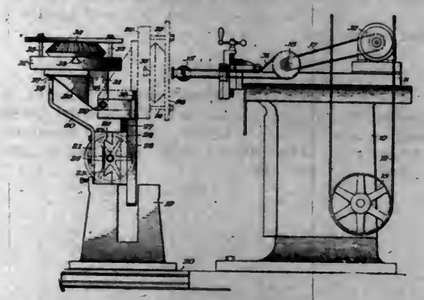
1,754,897. AUTOMATIC SOUND-REPRODUCING MACHINE. SAMUEL KOHN, New York, N. Y., assignor to Wonda Phonograph Co., Inc., New York, N. Y., a Corporation of New York. Filed Oct. 10, 1921. Serial No. 506,739. 1 Claim. (Cl. 274—10.)

In a multiple-record phonograph the combination with a turntable, a reproducer arm, a reproducer, a stack of records adapted to be successively fed to the turntable and a brake for the turntable, of means for automatically moving the reproducer arm to record-playing position and means called into action by cessation of movement of said reproducer arm across said turn-table sequentially to raise the reproducer from a record when it has completed reproducing a selection thereon, to move the reproducer arm clear of the record, to supply another record from said stack to said turntable and to lower the reproducer onto the newly supplied record, means to render the brake



operative to stop the turntable and means for predetermining the number of records from the stack to be played in succession before the brake becomes operative to stop the machine.

1,754,898. WORKHOLDER FOR GRINDING MACHINES. EDWIN F. LONGENBACK, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 25, 1926. Serial No. 131,327. 4 Claims. (Cl. 51—37.)



1. In a device of the character described, a tool mounted for advancement in a path of predetermined direction in a horizontal plane, in combination with a work holder for positioning and maintaining a work piece in predetermined relationship within and to the path of said tool, said work holder having a plane surface adapted to receive a work piece thereagainst and means for holding said work piece against said plane surface, formed to cause said plane surface to determine the position of the work piece, means for mounting said work holder for vertical and transverse adjustments, and pivotal means connecting said work holder to said last named means, and adjustable stop means limiting the pivotal movement of said work holder for maintaining said work holder with said plane surface in substantially a horizontal plane in one extreme position and maintaining said work holder with said plane surface in substantially a vertical plane in the other extreme position, said work holder when in substantially vertical position presenting the work piece in the path of said tool.

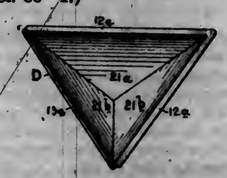
1,754,899. DANGER-SIGNAL DEVICE. EDGAR A. MILLER and CLEVELAND A. JAMES, Philadelphia, Pa. Filed Oct. 25, 1924. Serial No. 745,752. 3 Claims. (Cl. 88—1.)

3. A reflector device consisting of an uneven number of reflecting units arranged about a common center to form a substantially continuous annular reflecting means, each unit comprising three triangular reflecting surfaces abut-



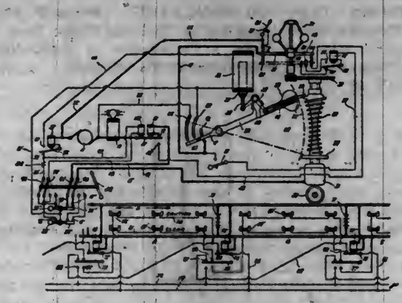
ting each other to form a triple reflector and whose axis is nearer to the common center than is a central point in the orifice of the triple reflector.

1,754,900. REFLECTOR. EDGAR A. MILLER, Philadelphia, Pa., assignor of one-half to Cleveland A. James, Philadelphia, Pa. Filed Jan. 2, 1926. Serial No. 78,754. 1 Claim. (Cl. 88—1.)



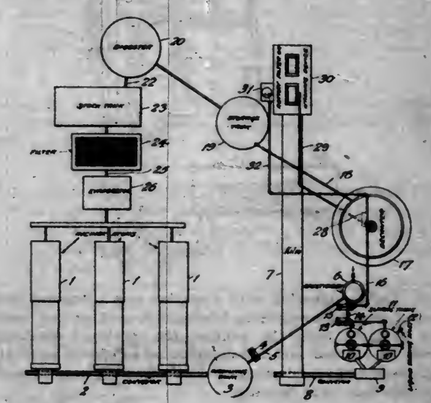
A reflector comprising five overlapping reflector units arranged about a common center and each unit formed of pressed glass and comprising three triangular shaped reflecting surfaces arranged at right angles to each other, the triangular rims of the reflector units each having one edge devoid of a flange, and an adjacent edge provided with an outwardly directed flange whose under surface lies in substantially the same plane as the flangeless edge, and wherein further, one of the triangular reflecting surfaces has an angle of 90° and two angles of 45° each, and the remaining two triangular surfaces each have one angle of 90°, a second angle of 35° and the remaining angle of 55°, and wherein also, the 90° angles of the three reflecting surfaces are grouped at a common point.

1,754,901. RUN-DOWN AND RESET LOCOMOTIVE-CONTROL APPARATUS. MONROE E. MILLER, Washington, D. C., assignor, by mesne assignments, to Union Simplex Train Control Co., Inc., a Corporation of Delaware. Original application filed Jan. 15, 1923, Serial No. 612,780. Divided and this application filed July 11, 1927. Serial No. 204,905. 4 Claims. (Cl. 246—63.)



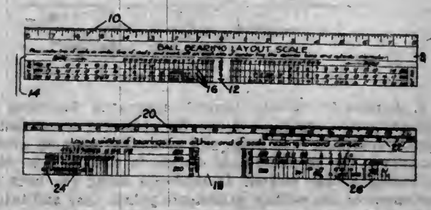
1. Vehicle controlling apparatus comprising in combination with a track divided into blocks; two sets of control elements in each block arranged in different longitudinal lines and each including a series of control elements located at intervals along the track in the block, means controlling said control elements of each block and controlled by traffic conditions for rendering at least one set of control elements operative under clear conditions, the other set operative and the first named set inoperative for caution conditions, and both sets inoperative for danger conditions; the control elements of one set being arranged adjacent to the control elements of the other set throughout each block; a vehicle-carried run-down device operable whenever the vehicle is in motion for obtaining danger vehicle conditions when the vehicle has travelled a distance greater than the distance between the control elements of one set; and vehicle-carried means having separate responsive elements in said longitudinal lines controlled by said control-elements and controlling said run-down device and operable when responding to control elements of the firstnamed set to reset said run-down device and maintain clear vehicle conditions, and operable when responding only to the control elements of the secondnamed set, with the firstnamed set of elements inoperative, to reset said run-down device and maintain caution vehicle conditions.

1,754,902. CONTINUOUS SULPHATE PROCESS. WILLIAM D. MOUNT, Lynchburg, Va., assignor of one-half to Kenrick A. Forrest, Harvey, Ill. Filed Jan. 11, 1929. Serial No. 331,892. 7 Claims. (Cl. 92—9.)



1. A process for producing sulphate pulp which comprises the digesting of the wood by means of the alkali liquor, the separation of the pulp and spent liquor, the evaporation of the moisture and burning of the solid organic materials in the spent liquor, the dissolving of the resultant ash, the separation of the solid impurities therefrom, the causticizing of the liquor, the separation of the sludge therefrom, and the reuse of the clear liquor for digesting wood.

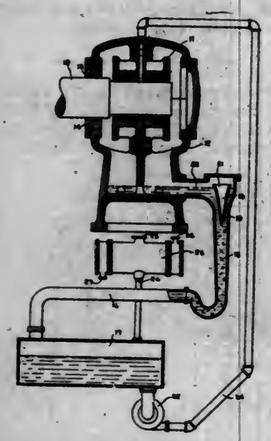
1,754,903. MEASURING RULE. DUDLEY W. NEARING, New Britain, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Sept. 21, 1925. Serial No. 57,753. 10 Claims. (Cl. 33—111.)



5. In a device of the character described, a measuring rule having dimensional graduations representing bearing

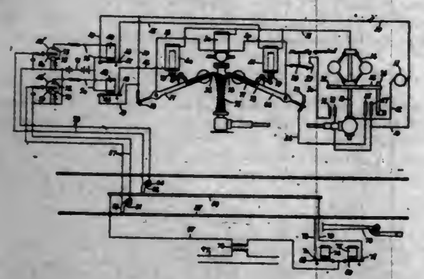
diameters marked off on one side thereof, bearing identity indicia comprising series of bearing size numbers marked off to correspond, the other side of the rule having dimensional graduations representing bearing widths, and bearing identity indicia comprising series of bearing size numbers marked off in congruent alignment with said last graduations; substantially as described.

1,754,904. BEARING HOUSING. JAMES L. RAY, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 3, 1927. Serial No. 196,249. 7 Claims. (Cl. 308—122.)



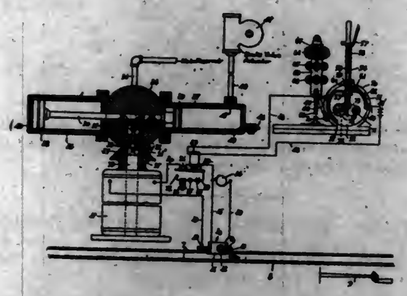
1. The combination with a bearing and a housing therefor, of means for supplying lubricant to said bearing, means for draining from the housing the lubricant discharged from the bearing, and means including an ejector motivated by the flow of said drainage for withdrawing gaseous media contained in said housing.

1,754,905. RUN-DOWN AND RESET TRAIN CONTROL. ALFRED L. RUTHVEN, Rochester, N. Y. Filed May 6, 1926. Serial No. 107,125. 7 Claims. (Cl. 246—63.)



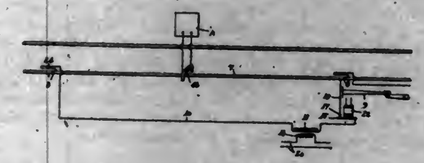
1. Automatic vehicle control apparatus including a vehicle-carried run-down device for obtaining an ultimate vehicle retarding condition, and manually operable avoiding means for resetting said device, in combination with indicating means located at intervals along the path of movement of the vehicle to indicate points near and intermediate the ends of the blocks where the avoiding means should be operated to prevent said vehicle retarding condition.

1,754,906. SIMPLEX NORMAL DANGER AUTOMANUAL TRAIN-CONTROL APPARATUS. ALFRED L. RUTHVEN, Rochester, N. Y. Filed Oct. 28, 1926. Serial No. 144,772. 16 Claims. (Cl. 246—63.)



1. A vehicle control apparatus comprising vehicle retarding means including cooperable control elements on the vehicle and track-side, an alert device operable for different traffic conditions and controlling said means to prevent operation thereof, and a signal device operable with said said alert device for indicating the operation of said alert device, said device being on the exterior of the vehicle and visible along the right of way.

1,754,907. CONTINUOUS TRAIN CONTROL. ALFRED L. RUTHVEN, Rochester, N. Y. Filed July 27, 1929. Serial No. 381,495. 9 Claims. (Cl. 246—63.)



1. The combination with a vehicle track having insulated joints dividing the track into blocks, and a vehicle carried apparatus including a receiving coil cooperable inductively with said track, of trackside circuits including the track rails and having portions extending adjacent to the insulated joints to avoid "blind spots."

1,754,908. CLIP FOR BOOK BACKS. FRANK S. SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1929. Serial No. 353,851. 3 Claims. (Cl. 40—23.)

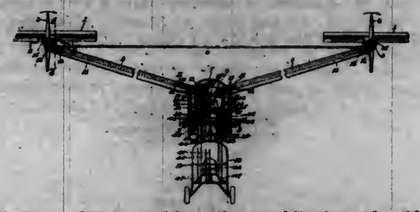


1. A clip for a book back, comprising a spring wire frame of general rectangular shape having its upper end curved to fit the convexity of said back, the ends of the wire being at the bottom of the frame and curved upwardly and outwardly, and a sheet metal clip having its lower end curved inwardly and secured to said ends and adapted to engage the beaded edge of said back.

1,754,909. PROCESS OF RAPIDLY BLEACHING VEGETABLE FIBERS OF ANY KIND. CARL GUSTAV SCHWALBE, Eberswalde, and HERMANN WENZL, Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Filed Jan. 19, 1925, Serial No. 3,449, and in Germany July 15, 1921. 5 Claims. (Cl. 8—2.)

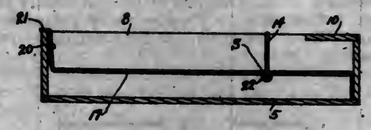
1. In the art of bleaching vegetable fibers especially cellulose raw material the combination of the following steps: placing the fibers in the form of dry paste-board on a continuously moving supporting member, moistening and preheating the fibers, impregnating the fibers with a strong bleaching liquor containing from 20 to 30 grams of active chlorine per liter, immediately removing the excess of bleaching agent, passing the treated fibers through a moist and warm atmosphere so that the bleaching agent remaining in the fibers effects the bleaching to the desired degree, and finally removing the remnants of the exhausted bleaching liquor by rinsing them with water, pressing off the water, separating the bleached paste-board from the supporting member and conveying it to a drying device.

1,754,910. AEROPLANE. ALEX SERNA, Fordson, Mich. Filed Nov. 23, 1927. Serial No. 235,223. 7 Claims. (Cl. 244—19.)



1. In a flying machine, the combination of widely spaced apart flying units each including an aerofoil and a propeller, rigid arms upon the outer ends of which said units are supported with said arms extending radially inward and downward therefrom and rigidly connected at their inner ends centrally between said units, power means carried by said arms adjacent their connected inner ends, and means for transmitting motion from said power means through said arms to drive said propellers.

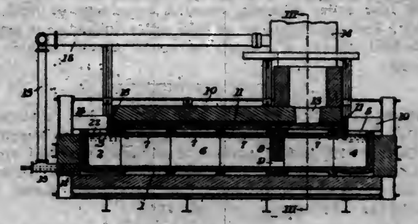
1,754,911. DOUBLE-COMPARTMENT MONEY TILL. LEWIS RAYMOND SHERWOOD and THOMAS LEO LITTLE, Lakewood, Ohio. Filed Jan. 12, 1929. Serial No. 332,004. 3 Claims. (Cl. 45—7.)



3. An attachment for money tills including, in combination, a shaft comprising a pair of alined spaced sections connected together by inverted U-shaped hangers and having at the remote ends of end sections hangers with oppositely disposed lateral extremities, rear panels hingedly connected with shaft sections and having depending rear ends, front panels hingedly connected with the shaft sections and having at their front ends risers with forwardly directed stop ears at their upper edges.

1,754,912. CONTINUOUS GLASS-MELTING POT. EDWIN E. SLICK, Pittsburgh, Pa. Filed Sept. 2, 1926. Serial No. 133,163. 8 Claims. (Cl. 49—59.)

7. A pot furnace for melting glass having a long relatively narrow combustion chamber, a long relatively narrow melting pot within the combustion chamber having upwardly and outwardly opening charging and working openings, a gaseous fuel burner opening into one end of the furnace, and an offtake flue near the other end of the furnace and between the charging and working openings,



the arrangement being such that the products of combustion pass from the burner over the length of the melting pot from the burner to the offtake flue.

1,754,913. UNSYMMETRICAL ORGANIC PEROXIDE BLEACHING AGENT AND METHOD OF PREPARING THE SAME. WILLIAM B. STODDARD, Stamford, Conn., and ROBERT V. TOWNEND and VAMAN R. KOKATNUR, Kearny, N. J., assignors to Pilot Laboratory, Inc., Arlington, N. J., a Corporation of New Jersey. Filed Sept. 8, 1928. Serial No. 304,838. 15 Claims. (Cl. 260—16.)

1. A peroxid of the general formula—

$$R—CO—O—O—OC—R_1$$

in which R_1 is an aromatic radical and R—CO corresponds to an acyl radical of a mono-basic aliphatic acid having not less than four carbon atoms.

1,754,914. BLEACHING METHOD AND COMPOSITION. WILLIAM B. STODDARD, Stamford, Conn., assignor to Pilot Laboratory, Inc., Arlington, N. J., a Corporation of New Jersey. Filed Oct. 23, 1928. Serial No. 314,545. 17 Claims. (Cl. 83—42.)

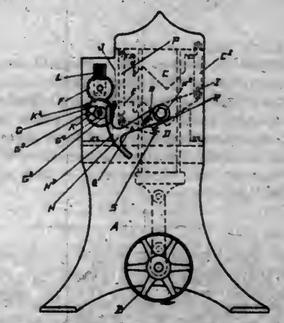
1. A composition of the type described which comprises an organic peroxid dissolved in a non-aqueous solvent.

5. A method of bleaching which comprises treating the material to be bleached with a non-acqueous solution of an organic peroxy compound.

9. A method of forming peroxy compounds which comprises treating an acyl chloride with hydrogen peroxide to form an organic peroxide, dissolving said peroxide in a nonaqueous solvent, and chemically drying the resulting peroxide solution.

12. A method of bleaching flour and other milling products which comprises spraying a non-aqueous solution of organic peroxides uniformly throughout said milling products, and permitting said peroxides to react therewith.

1,754,915. MACHINE DESIGNED FOR THE MANUFACTURE OF FLASHINGS. ADELARD J. THERRIEN, Lynnfield, Mass. Filed Aug. 2, 1928. Serial No. 296,898. 9 Claims. (Cl. 153—21.)



7. In a machine of the character described, a pair of die members, means for moving one of said die members

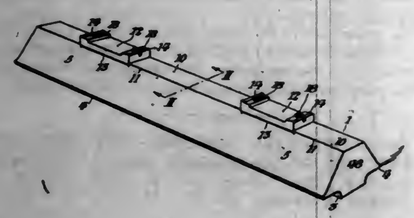
towards and from the other, a roller for feeding material between said die members, and a link and lever lost motion connection between said movable die member and said feed roller whereby opening movement of said die effects feeding movement of said roller following a predetermined amount of opening movement of said movable die member.

1,754,916. MECHANICAL TOY. JOHN W. THOMPSON, Oak Park, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Original application filed Aug. 13, 1926, Serial No. 128,941. Divided and this application filed Apr. 28, 1928. Serial No. 273,741. 3 Claims. (Cl. 46—45.)



1. A toy comprising a platform, wheels and axle for said platform, a mutilated gear on said axle, a sliding object on said platform, a rack connected to said object in mesh with said gear, a second object yieldingly fixed on said platform and an elastic means connecting said objects.

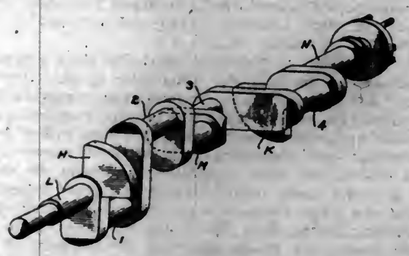
1,754,917. METALLIC RAILWAY TIE. RAYMOND L. VAIL, Germantown, Pa. Filed Apr. 6, 1929. Serial No. 352,953. 11 Claims. (Cl. 238—70.)



1. In a metallic railway tie, the combination with outer upwardly converging strut plates; of inner upwardly converging strut plates secured at their upper edges to said outer plates and having their lower edges in spaced relation with each other and with said outer plates; and a base plate connected with the lower edges of said strut plates; whereby each of said outer plates is obliquely braced by one of said inner plates.

1,754,918. CRANK SHAFT FOR V-TYPE ENGINES AND METHOD OF BALANCING SAME. CLINTON L. WALKER, Piedmont, Calif. Filed July 15, 1925. Serial No. 43,703. 3 Claims. (Cl. 74—38.)

3. A four throw crank shaft for a V-type four-stroke cycle engine, having cranks arranged in 180 degree pairs set at 90 degrees to each other and counterbalanced by a pair of weights in a plane bisecting the angles of cranks



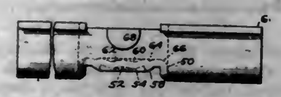
1 and 3 and 2 and 4, and opposite thereto respectively, and each of said weights having a WRL equal to .7071 times the difference in WRL of cranks 1 and 2 or 3 and 4.

1,754,919. FELT MANUFACTURE. VAN A. WALLIN, Chicago, Ill., assignor to American Hair & Felt Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1928. Serial No. 265,598. 1 Claim. (Cl. 28—14.)



The method of producing felts, made of hair, jute or other coarse, feltable fibres, too thin to be felted between the felter plates of the usual heavy felting machine, which consists in building up a composite mass of thin bats of the feltable fibres, separated from each other by a single, thin, flexible separator, to a thickness sufficient for efficient handling in the usual heavy, coarse, felting machinery used in the manufacture of thick felts, subjecting the composite mass to the pressure and agitation of the felter plates at one operation, and after felting removing the separators.

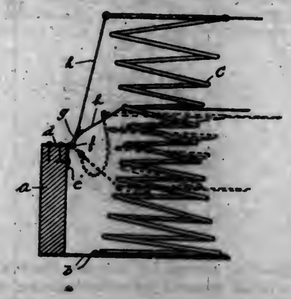
1,754,920. METHOD OF MAKING JOURNAL BOXES. GEORGE D. WARD, Kearny, and WILLIAM H. CHAPMAN, Montclair, N. J., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 3, 1927. Serial No. 210,433. 8 Claims. (Cl. 29—166.)



1. The method of making a narrow center, hanger box from flat sheet steel which consists in pressing at the center of a blank a deep teat united to shallower and wider concavities at the end portions by inwardly arched beads, and then pressing the teat inwardly to form a narrow center with a shaft hanger seat; substantially as described.

1,754,921. UPHOLSTERY ATTACHMENT. SIMON L. WARREN, Quincy, Mass. Filed May 8, 1928. Serial No. 276,040. 4 Claims. (Cl. 155—179.)

1. In combination with an upholstery frame of substantial depth having a support at its bottom and a series of spiral springs mounted upon said support within the frame and extending for a substantial distance above the top thereof, a series of metal eyes mounted on the frame in position to project within the same adjacent its top, and



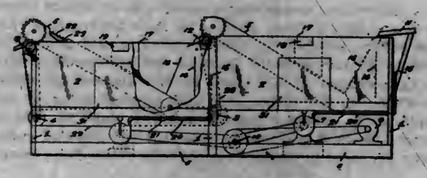
a plurality of cords extending through each of said eyes and connected thereto and to top and intermediate coils of adjacent springs, to restrain said springs against longitudinal expansion and lateral distortion and permit compression thereof.

1,754,922. METHOD OF MAKING HUBS. CHICHESTER P. WELDON, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Mar. 29, 1927. Serial No. 179,294. 3 Claims. (Cl. 29—159.3.)



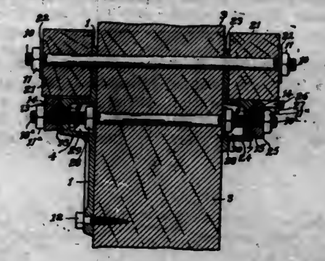
1. The method of forming a flanged hub which consists in swaging down the middle portion of a sleeve, confining the sleeve against a change in shape except at an annular space near the end portion, expanding said end portion to cause it to bulge outwardly into said space, and collapsing said bulged portion by axial pressure to form a folded flange; substantially as described.

1,754,923. FRUIT-GRADING MACHINE. ERNEST H. WIEGAND, Corvallis, Oreg., assignor, by mesne assignments, to the Citizens of the United States for their free use and enjoyment. Filed Dec. 11, 1928. Serial No. 325,350. 1 Claim. (Cl. 209—178.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



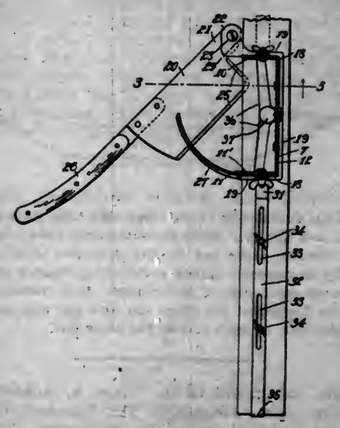
A fruit grading machine, comprising tanks in series containing solutions of greater density than the density of water, means for recirculating said solutions in each of said tanks, means for minimizing the agitation of said solutions, means for introducing fruit into the first of said tanks and means for conveying the fruit from the first of said tanks to the other tank or tanks in the series.

1,754,924. POLE ATTACHMENT FOR ELECTRIC CONDUCTORS. ROLLAND G. WILLIAMS, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a Corporation of Connecticut. Filed June 13, 1928. Serial No. 285,192. 2 Claims. (Cl. 173—251.)



1. The hereindescribed fixture for securement to a pole comprising a base having a ledge extending horizontally therefrom with horizontal parallel spaced grooves in the outer face of said ledge, a clamping plate, and means for securing said plate to the ledge and to the pole with a messenger cable firmly held between said plate and ledge, said ledge having raised seats whose horizontal plane is in close proximity to the horizontal plane of the messenger cable and above the upper edge of the clamping plate, and an insulating bar supported by said seats and secured thereto.

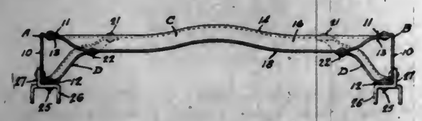
1,754,925. MORTISE-CUTTING DEVICE. HANS ALMIND, New York, N. Y. Filed Nov. 11, 1927. Serial No. 232,507. 7 Claims. (Cl. 144—27.)



1. In a mortise cutting device, a frame arranged with a side wall and integral right angle end walls and one end wall arranged at the end with a perforated ear extending laterally in a plane with the bottom edge of the frame and the other end wall extended outward and curved inward, cutters fixed upon the inner surface of the frame walls with the cutting edge extended beyond the bottom edge, a slicing cutter substantially of rectangular form having a cutting edge extended along a longitudinal edge and one end edge thereof with a perforated ear extending laterally from the corner at the juncture of the end having the cutting edge with the back edge of the cutter, and means to pivotally connect the slicing cutter with the perforated ear of the frame to arrange said cutter to have movement in a direction into and out of the open side of the frame transversely of and in a plane with the cutting edge of the cutters fixed on the frame, and the bottom edge of the outward and inward curved extension of the

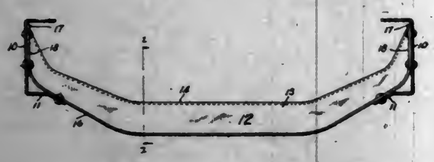
one end wall of the frame extended below the bottom of the remainder of the frame and adapted for the engaging of the slicing cutter to serve as a gauge and guide for the slicing cutter in the cutting operation thereof, and a hand grip fixed to the slicing cutter to extend laterally therefrom opposite to the connection of said cutter with the frame.

1,754,926. CROSSBAR FOR AUTOMOBILE FRAMES. BIRGER TORVALD ANDREN, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Oct. 22, 1927, Serial No. 227,889. Renewed Mar. 5, 1929. 13 Claims. (Cl. 280—106.)



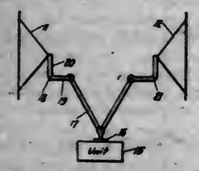
1. In a frame for automobiles or other vehicles, a cross bar having gussets at its ends, a pair of oppositely arranged channel side bars to one flange of each of which one of said gussets is attached, and braces attached to the cross bar intermediate the gussets, the outer ends of the braces being attached to the other flanges of the side bars.

1,754,927. AUTOMOBILE FRAME. BIRGER TORVALD ANDREN, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 2, 1928. Serial No. 251,275. 10 Claims. (Cl. 280—106.)



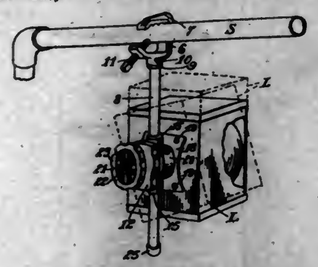
1. In an automobile frame, two side bars each having a vertical web and an inwardly extending flange, combined with a channel cross bar having upturned ends standing vertically in opposed planes and having flanges at its end portions on each side of the channel, and connections between the flanges of the cross bar and the web and flange of the side bar, at each end of the cross bar.

1,754,928. LOUD-SPEAKER. CARL R. ALBERTUS, San Leandro, Calif., assignor to The Magnavox Company, Oakland, Calif., a Corporation of Arizona. Filed July 28, 1927. Serial No. 209,092. 17 Claims. (Cl. 181—31.)



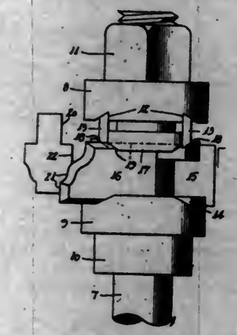
1. In combination, an actuating unit, an air actuator, and a rigid driving element for transferring energy between the unit and actuator, the direction of transmission through said element being oblique both to the direction of movement of the unit, and that of the air actuator.

1,754,929. MOUNTING OF LAMP HOUSINGS. HARRY J. ATTICKS and JOSEPH G. SALTZMAN, New York, N. Y. Filed Nov. 17, 1927. Serial No. 233,916. 2 Claims. (Cl. 240—52.)



1. In supporting means for a lamp housing, a carrier embodying a clamp member for mounting on a support and a rod secured to the clamp member, and means for mounting a lamp housing on the carrier for adjustment parallelly and universally thereof, comprising a clamp plate having a central perforation and perforated spaced ears extending laterally from a face of the plate in alined arrangement at one side of the perforation for engagement of the carrier rod to mount the plate thereon to have adjustment longitudinally of and about the rod, a bracket embodying a plate portion for mounting of a lamp housing thereon and arranged as a clamp member having a laterally extending stud for engagement in the perforation of the clamp plate for adjustment about an axis transverse of the axis of the carrier rod, and means engaged on the stud at the outer side of the clamp plate to draw said plate and the lamp housing carrying bracket to and secure the lamp housing in adjusted position on the carrier rod.

1,754,930. CUTTER HEAD. WILLIAM G. BEAN and ULYSSES M. COOL, Burbank, Calif. Filed June 4, 1928. Serial No. 282,850. 1 Claim. (Cl. 144—231.)

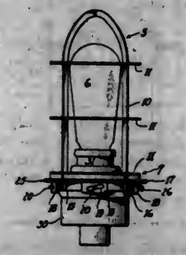


A cutter head comprising a spindle, three collars thereon having complementing grooves in their confronting faces, and cutters between the collars seated in said grooves, the grooves in the opposite faces of the intermediate collar being arranged at an angle to one another in chordal positions on the collar and said grooves being of such depth as to extend beyond a common plane so that the cutters produce overlapping cuts, the grooves and cutters being arranged in pairs at the opposite sides of the spindle.

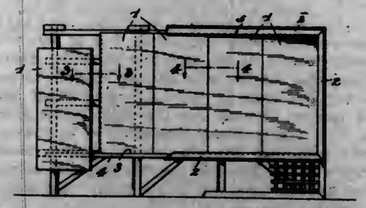
1,754,931. LAMP GUARD AND MOUNTING THEREFOR. HENRY BRACHTL, Chicago, Ill., assignor, by mesne assignments, to Appleton Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1928. Serial No. 248,286. 14 Claims. (Cl. 240—102.)

1. A protective device for incandescent lamps having, in combination, a guard carrier, a guard open at one end to

receive a lamp and adapted to abut said carrier, said carrier comprising a body member, a ring rotatably mounted on said body member and arranged to move axially of the member during such rotation, said member and said ring having opposed notches formed therein arranged to be carried into and out of registering relation by relatively rotating said ring and member, a plurality of fingers on the open end of the guard adapted to be inserted into said notches when in registry, said fingers having notches therein to permit rotation of said ring to carry its notches out of registry with the notches in said member to secure said guard to the carrier, and means operable during such rotation of the ring to move the ring axially of the body member and thereby draw the guard into firm clamping abutment with said body member.



1,754,932. ADVERTISING SIGNBOARD STRUCTURE. WILLIAM G. BROWNE, Yonkers, N. Y., and ROGER W. OLMSTED, San Francisco, Calif. Filed Sept. 12, 1927. Serial No. 218,973. 3 Claims. (Cl. 40—125.)



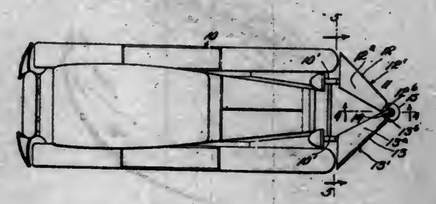
1. In a structure for displaying posters and the like, a sectional body comprising a plurality of panels, each including a skeleton support having side rails with rearwardly bevelled front edges, and a sheet metal covering, said sheet metal being applied to each skeleton support in such a manner that when said panels are assembled with their edges in abutting relation the sheet metal portions surrounding said edges are divergent and acutely contiguous in the face plane of the structure and the sheet metal faces of said panels combine to form a smooth, substantially continuous surface throughout the portion of said body adapted to receive and display the poster or the like.

1,754,933. TIME-CONTROLLED SWITCH. GEORGE M. BRUNNER, Roseburg, Oreg. Filed Dec. 20, 1926. Serial No. 156,018. 12 Claims. (Cl. 194—9.)



1. In a time controlled coin operated switch of the character described, a switch structure including a swinging knife blade, a sliding switch plate member having connection with said knife blade, a sliding coin plate arranged in side by side relation with the switch plate, means for causing said coin plate and said switch plate to operate simultaneously through a coin connection therebetween for the closing of said switch, means for moving the switch plate laterally to cause it to engage a fixed portion of the structure to maintain the switch in closed position, a time mechanism, and trip means operable by said time mechanism to cause the release of the sliding switch plate to open said switch.

1,754,934. AUTOMOBILE BUMPER. DOMENICO CAPOBIANCO, New York, N. Y. Filed Oct. 26, 1929. Serial No. 402,562. 4 Claims. (Cl. 293—17.)

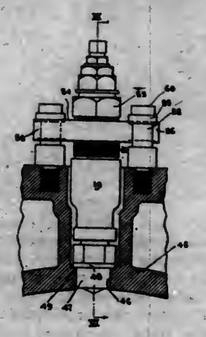


1. An automobile bumper composed of two main bumper elements pivoted together at a centrally-located point to provide a bumper relatively V-shaped in conformation, said elements extending at their opposite ends to a position adjacent to the sides of the car chassis, and mounting means capable of horizontal adjustment for mounting said bumper on the car chassis.

1,754,935. PROCESS OF DIRECTLY PRODUCING PHONOGRAM CARRIERS SUITABLE TO BE PLAYED OFF. ALFRED CHMIELOWSKI, Vienna, Austria, assignor, by direct and mesne assignments, to Sigmund Katscher, Vienna, Austria. Filed July 5, 1928, Serial No. 290,685, and in Austria May 23, 1927. 2 Claims. (Cl. 274—41.)

2. A phonogram record comprising a surface layer of gelatine having a sound groove cut therein.

1,754,936. INJECTION NOZZLE. ALAN ERNEST LEOFRIC CHORLTON, London, England. Filed Mar. 21, 1928. Serial No. 263,419. 9 Claims. (Cl. 123—32.)



1. The combination with an engine cylinder having an opening for a fuel injection nozzle, of a fuel injection nozzle having a tip portion fitting in said opening, a shoulder fitting against the exterior of the cylinder, a second shoulder spaced outwardly from the first shoulder, and a cylindrical portion extending outwardly from the second shoulder; and anchorage means for the nozzle including tension members carried by the cylinder, an abut-

ment member held fixedly in place with respect to the cylinder by the tension members, and an adjustable sleeve surrounding said cylindrical portion, threaded to and movable with respect to said abutment member, and having its inner end engaging said second shoulder.

1,754,937. SOFA PILLOW. BESSIE COMSTOCK, Waukesha, Wis. Filed Oct. 10, 1928. Serial No. 311,455. 1 Claim. (Cl. 5—337.)



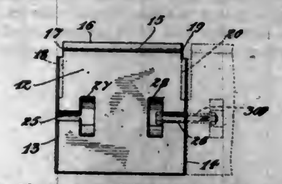
A pillow provided with a flexible filling enclosed by a contour-maintaining covering of fabric in combination with an outer covering also of fabric and having an elongated opening intermediate of its ends, the margins of which are provided with lacing apertures, and a lacing cord extending through said apertures and connecting said margins, the inner covering being provided with a permanently attached piece of material similar in color and appearance to that of the outer covering and registering with the laced aperture in the outer covering.

1,754,938. FASTENING DEVICE WITH INSTANTANEOUS JAMMING. HUGUES LOUIS DARDELET, Nantes, France, assignor, by mesne assignments, to Dardelet Threadlock Corporation, New York, N. Y., a Corporation of Delaware. Original application filed May 19, 1925, Serial No. 31,392, and in France Sept. 5, 1924. Divided and this application filed June 14, 1926. Serial No. 116,041. 5 Claims. (Cl. 85—5.)



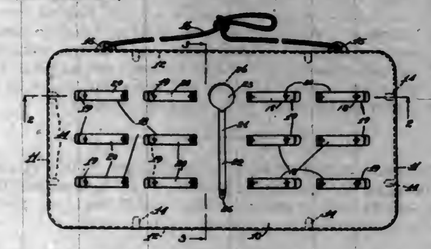
1. A two-part fastening device comprising a bolt and a nut, said bolt having a nut penetrating shank portion the major part of the periphery of which extends around the axis of the bolt in the path of the generatrix of an Archimedean spiral, said nut having a reception aperture for said shank portion the major part of the wall surface of which has a spiral curvature complementary to the spiral peripheral surface of said shank portion and is movable into and out of binding engagement with said spiral peripheral surface by relative rotary movements between the nut and bolt, said spiral surfaces having a sufficiently low maximum amount of recession from the axial line of the bolt and nut to afford a self-holding frictional grip upon forcible jamming together of said surfaces by turning effort exerted on one part of the fastening device.

1,754,939. CURB BLOCK. THORLEIF FLIFLET and THOMAS B. ALLARDICE, Mountain Lakes, N. J. Filed Dec. 31, 1927. Serial No. 243,829. 3 Claims. (Cl. 94—31.)



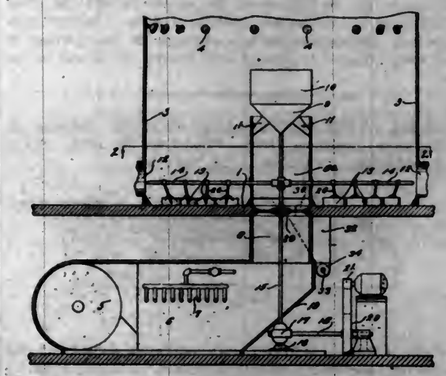
2. A curb block comprising a body having a front face, a rear face, a curved face at one end thereof, a flat face at the other end thereof, and a top face including an inner flat portion and a rib at one side thereof extending upwardly from the front face.

1,754,940. TIE RACK. CHARLES K. FREEMAN, Chicago, Ill. Filed Dec. 19, 1928. Serial No. 327,148. 3 Claims. (Cl. 206—80.)



1. A tie rack comprising a base plate, and a plurality of transversely spaced lugs struck out of said plate and connected thereto at one end, and extending horizontally in spaced and substantially parallel relation to said base plate, the free ends of said lugs being flared outwardly and a portion of each lug intermediate its ends being flexed inwardly in close proximity to said base plate, whereby said lugs are adapted to support neckties or the like with the faces of the ties disposed substantially parallel to said base and to yieldingly hold said ties in fixed position thereon.

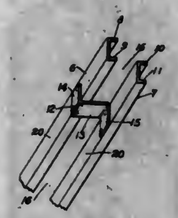
1,754,941. SPRAY DRIER. WILLIAM O. FROHRING, Shaker Heights, Ohio, and WILLIAM F. RICHARDS, Mason, Mich., assignors, by mesne assignments, to The Laboratory Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 20, 1927. Serial No. 185,303. 5 Claims. (Cl. 159—4.)



2. A spray drier, comprising a circular drying chamber, said chamber being provided with a substantially radially

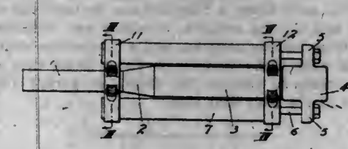
extending channel in its bottom, movable means within said chamber for scraping the material deposited on the chamber bottom and for conveying it to said channel, and supporting means extending across said channel for supporting the scraping means while crossing said channel.

1,754,942. BUILT-UP STUD FOR HOLLOW PARTITIONS. WILLIAM M. GOLDSMITH, Cincinnati, Ohio, assignor to The Goldsmith Metal Lath Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 8, 1926. Serial No. 121,182. 6 Claims. (Cl. 72—115.)



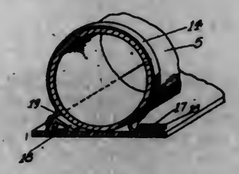
5. In a device of the class described the combination of two flanged structural irons disposed with their flanges in parallelism and their webs out of transverse alignment and braces connecting the structural irons and retaining them in fixed offset relationship.

1,754,943. FIELD GUN WITH TUBE RECOIL. VICTOR HAMMAR, Bofors, Sweden. Filed July 12, 1928, Serial No. 292,171, and in Sweden Dec. 4, 1926. 5 Claims. (Cl. 89—43.)



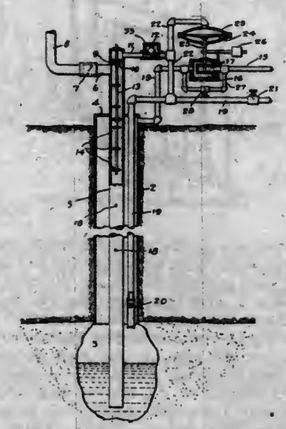
1. Arrangement in field guns having tube recoil comprising a tube, rollers disposed radially around said tube for supporting the forward end thereof and which bear against the cylindrical periphery of the tube, and a cradle in which said rollers are mounted.

1,754,944. SIGN DEVICE. THOMAS H. HARRIS, Norwood, Ohio. Filed Jan. 18, 1927. Serial No. 161,916. 2 Claims. (Cl. 40—145.)



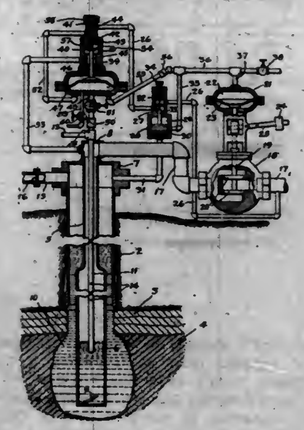
1. In combination with a pole, a directory board, and means for mounting it on the pole, comprising a strap to surround the pole, means for securing one end of the strap to the board, and means for securing the other end of the strap to the board, comprising button studs on the board, and keyhole slots in the strap, and a locking strip for the button and slot connection, having keyhole slots facing in the opposite direction from those of the strap.

1,754,945. METHOD AND APPARATUS FOR FLOWING OR PUMPING WELLS. RICHARD M. HASKELL, Bradford, Pa., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Aug. 5, 1927. Serial No. 210,799. 17 Claims. (Cl. 103—11.)



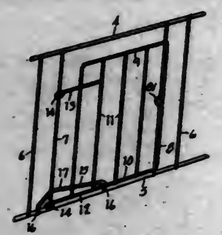
1. The method of flowing wells which comprises maintaining a back pressure on an aeriform operating medium escaping from the well, utilizing the pressure of such medium to keep a flowing medium turned off from the well, and utilizing fall in pressure in said medium due to rise of liquid in the well to bring about turning on of the aeriform flowing medium.

1,754,946. WELL-FLOWING APPARATUS. RICHARD M. HASKELL, Bradford, Pa., assignor of three-fourths to Tide Water Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 20, 1928. Serial No. 255,621. 20 Claims. (Cl. 103—11.)



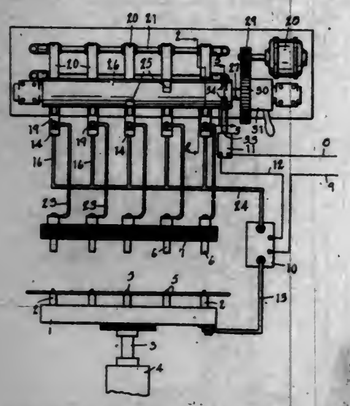
1. Well flowing apparatus comprising a well casing, means to supply motive fluid to the well to discharge liquid therefrom, fluid pressure means adapted to shut off the supply of motive fluid including a fluid pressure conduit and a valve for controlling flow through said conduit, means to move said valve in response to a state of discharge of the well and to retain the valve in such moved position, and means to release the retaining means in response to change of pressure in the well casing.

1,754,947. POULTRY COOP OR CRATE. CHARLES T. HATCH, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Aug. 24, 1928. Serial No. 301,714. 5 Claims. (Cl. 220—36.)



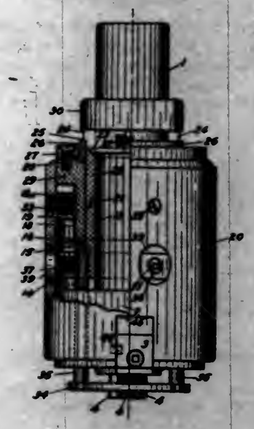
1. In a structure of the class described, the combination of a panel comprising horizontal top and bottom bars and vertical slats secured thereto and disposed to provide a door opening, a door comprising top and bottom members and vertical slats, said door being provided with hinge members having pivotal and sliding engagement with the vertical slat at one side of said door opening, and a bail-shaped door retaining and lifting member, the arms of which are secured to the bottom longitudinal bar to project upwardly therefrom constituting a door retaining means, the bight portion of said member being forwardly inclined and disposed transversely of the panel slat on which the door is hinged so that the bottom member of the door rides thereon when the door is swung to open position thereby elevating the door.

1,754,948. ELECTRIC WELDING MACHINE. CHARLES T. HATCH, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Sept. 21, 1928. Serial No. 307,392. 8 Claims. (Cl. 219—4.)



1. In an electric welding machine, the combination of a plurality of coacting pairs of electrodes, a transformer having a main circuit connected thereto, an electrode switch for each coacting pair of electrodes having one of its contacts connected to one of a pair of eletrodes and the other to said transformer, electric connections for the other electrode of the pairs to said transformer, a circuit breaker switch interposed in said main circuit in advance of said transformer, and a drum provided with a plurality of spirally disposed tappets for successively closing said electrode switches as the drum is rotated and with a plurality of tappets coacting with said circuit breaker switch and acting to close said circuit breaker switch after the closing of one of electrode switches and open it prior to the opening of the electrode switch.

1,754,949. AUTOMATIC THREAD-CUTTING TOOL. PAUL O. HECHT, Davenport, Iowa, assignor to B & D Mfg. Co., Rock Island, Ill., a Corporation of Illinois. Filed June 4, 1925. Serial No. 34,888. 12 Claims. (Cl. 10—145.)



2. In mechanism of the character described, a body comprising a shank and a flange, a shell surrounding the body and sliding on the flange, said shell having at its upper end a ring shaped abutment, locking dogs carried by the shank and engaging the said abutment to lock the shell in lowered position, springs within the shell and tending to separate the shell and flange by moving them longitudinally relatively to each other, a ring slidable between the shank and shell and, in one position, engaging and withdrawing the dogs from locking position, and a continuous abutment below said shell and connected to the slidable ring to actuate the same to release the dogs and permit relative movement of the body and shell.

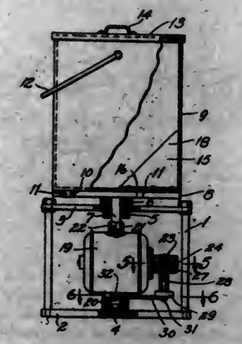
1,754,950. PROCESS AND APPARATUS FOR OBTAINING NEW RADIATIONS. VICTOR ALBERT HENOCQUE, La Basse-Croisille, par Conches, Eure, and HENRI SCHMIDT, Paris, France. Filed Dec. 13, 1924, Serial No. 755,688, and in France June 5, 1924. 7 Claims. (Cl. 250—1.)



1. A system for producing radiations that will act at a distance in a powerful way, comprising a source of radiation, a metallic reflector located behind said source, an open electric circuit, and means for supplying electric energy to said circuit, said circuit having one end grounded and the other end connected to the reflector itself, so that it will create an electromagnetic field to act upon said source and cause it to emit radiations in waves of a shorter wave length.

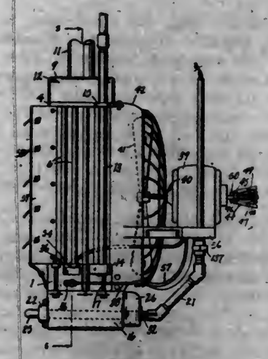
1,754,951. WASHING MACHINE. WALTER J. HOLLIER, St. Louis, Mo. Filed Sept. 6, 1928. Serial No. 304,264. 2 Claims. (Cl. 259—75.)

1. A washing machine comprising a base, a motor pivotally mounted thereon, means operated by the motor shaft for oscillating said motor, a horisontal support pivotally mounted in a member of said base and having its pivot non-



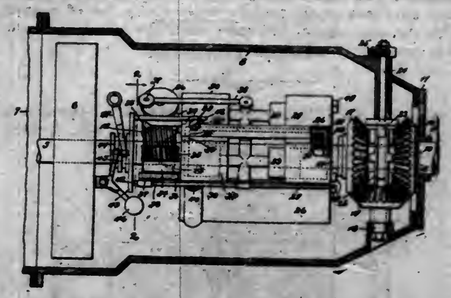
rotatably engaged with said motor and a container mounted on and detachably engaging said support to be oscillated therewith in the movement of said motor.

1,754,952. HEATING APPARATUS. HUBERT R. HUMPHREY and GEORGE A. HUMPHREY, Kalamazoo, Mich., assignors to General Gas Light Company, Kalamazoo, Mich. Filed Nov. 3, 1928. Serial No. 314,017. 30 Claims. (Cl. 126—110.)



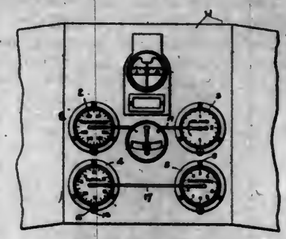
1. In a heating apparatus, the combination of a chambered base member having a plurality of combustion chamber discharge openings surrounded by upwardly facing flue seats, a top member having a plurality of flue openings therein, radiating flues of relatively small diameter arranged with their upper ends through said openings in said top member and their lower ends in said seats in said base member, flue clamping strips mounted on said top member to engage the upper ends of said flues and having restricted flue discharge openings therein, a flue header member mounted on said top member to coact therewith to provide a flue header, said header being provided with a discharge flue, a burner housing member mounted on said base member to coact therewith to provide a combustion chamber, and gas burners mounted on said burner housing member and having primary air inlets opening therein.

1,754,953. TRANSMISSION. SAMUEL C. IGOU, St. Louis, Mo. Filed Mar. 1, 1926. Serial No. 91,474. 8 Claims. (Cl. 74—34.)



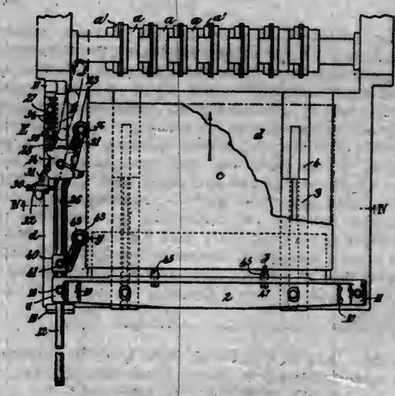
1. A transmission comprising a driving shaft, a transmission shaft, a worm rotatable by the driving shaft, a worm wheel rotatable with the transmission shaft and a controllable resistance for the worm wheel.

1,754,954. INSTRUMENT PANEL FOR AIRCRAFT. CARL E. JOHNSON, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed July 2, 1929. Serial No. 375,439. 4 Claims. (Cl. 244—31.)



1. An instrument panel for aircraft comprising a plurality of flight indicating instruments adjustably mounted with respect to said panel and glide lines on said panel interconnecting said instruments.

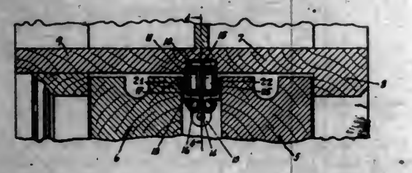
1,754,955. GAUGE FOR SHEET SLITTERS AND THE LIKE. PETER KRUSE, Brooklyn, N. Y., assignor to E. M. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed July 22, 1927. Serial No. 207,595. 9 Claims. (Cl. 271—55.)



1. The feeding mechanism according to claim 7, further characterised in that the said gauge members are adapted

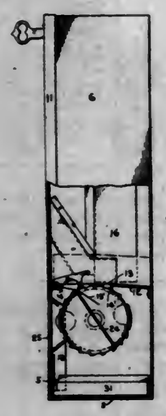
to engage a sheet at three separate points, the said side gauge member being in advance of the end gauge members, and the said shifting means being adapted to move such advanced gauge member horizontally out of contact with the side edge of the sheet while the end gauge members continue to advance.

1,754,956. WEATHERPROOFING MEANS. ARTHUR H. KUHLMANN, University City, Mo. Filed Feb. 4, 1929. Serial No. 337,290. 17 Claims. (Cl. 20—69.)



1. In a combined weather strip and parting bead, means forming a sealing structure movably associated with the parting bead and comprising a longitudinally disposed member, and an element movable along said member.

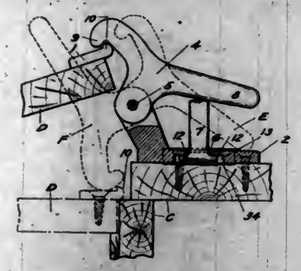
1,754,957. DISPENSING DEVICE FOR FLEXIBLE SHEET ARTICLES. HANS K. LORENTZEN, New York, N. Y. Filed Nov. 19, 1926. Serial No. 149,341. 1 Claim. (Cl. 312—51.)



In mechanism for dispensing flexible articles supported within a casing, the combination with a cylindrical member having closed ends to be mounted below said flexible articles, of means secured to said closed ends for rotatably mounting said cylindrical member within said casing, said cylindrical member having its peripheral wall interrupted to provide diametrically opposed openings therein between segments of said peripheral wall, each of said segments having a forward edge and a rearward edge, and a partition plate for said cylindrical member extending diametrically across said cylinder and connecting the respective rearward edges of said segments, said forward edge upon rotation of said cylindrical member being adapted to engage the lowermost of said flexible articles for delivering the same to an opening in said casing.

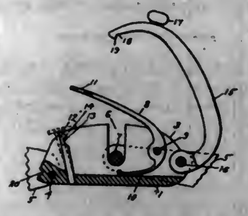
1,754,958. SAFETY LATCH FOR DOORS. OSCAR E. MAGNUSON, Davenport, Iowa. Filed Sept. 19, 1927. Serial No. 220,293. 9 Claims. (Cl. 292—101.)

1. In a device of the character described, a base plate for attachment to a door casing, said base plate being provided with means whereby a stop may be mounted thereon, spaced lugs projecting from the face of the base plate, and a hook shaped latching member having a projection from one edge thereof, said projection fitting between said lugs



and being pivotally secured therein, a stop on the base plate for limiting the rotation of the latching member in a direction to release the door and means for preventing actuation of the stop by a person outside the door.

1,754,959. BRACELET LOCK. DIMITRY F. MATUSHENKO, Brooklyn, N. Y. Filed Aug. 12, 1929. Serial No. 385,104. 3 Claims. (Cl. 24—241.)



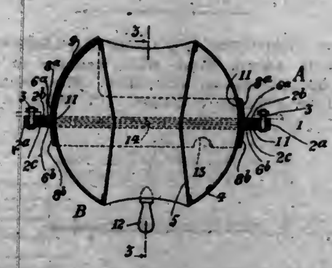
1. In a bracelet lock, the combination with a block adapted to be attached to one end of a bracelet and provided with a slot adapted to engage the other end of said bracelet, of an inner bar pivotally mounted on said block and adapted to cover said slot with said other end of said bracelet, means to resiliently retain the free end of said bar when said bar is in an operating position, an outer closing bar for said slot and said inner bar, means to pivotally support said outer bar on said block, and means to resiliently retain the free end of said outer bar on said block.

1,754,960. REFLECTOR. HERMAN MAYER, Philadelphia, Pa. Filed Apr. 9, 1929. Serial No. 353,873. 8 Claims. (Cl. 240—103.)



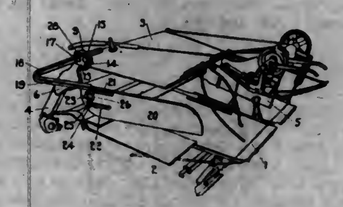
1. In a device of the character stated, a reflector casing closed at its top and open at its bottom, outwardly flaring bottom side walls therefor, a trough shaped member open at its top carried by the closed top of said casing, a cover for said trough shaped member, an electric socket common to said trough shaped member and said casing and projecting into the latter, a switch for said socket, an electric light carried by said socket and means for supporting said casing in any desired angular position.

1,754,961. AIR-DIRECTING DEVICE. THOMAS NEILSON, Glasgow, Scotland. Filed Nov. 29, 1927, Serial No. 236,891, and in Great Britain Nov. 7, 1927. 8 Claims. (Cl. 98—40.)



1. An air directing device comprising, in combination, a bearing ring, means for rotatably supporting said bearing ring, a substantially ellipsoidal nozzle independently rotatable in the bearing ring, an air passage through the nozzle, trunnions on the nozzle in the line of its axis of generation, and bearings, in the bearing ring for the trunnions on which the nozzle can rotate in the bearing ring at right angles to the axis of rotation of the bearing ring.

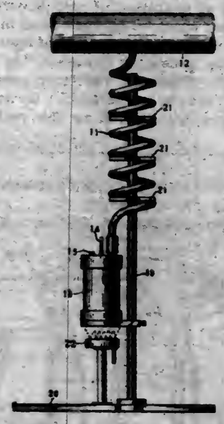
1,754,962. HARVESTER BINDER. NICHOLAS R. NELSON, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Dec. 10, 1928. Serial No. 324,972. 6 Claims. (Cl. 56—468.)



6. In a harvester-binder, the combination with the frame thereof and the binder-deck, of a casting mounted on the frame, a supporting member including a bearing secured on the casting, a plate integral with said member and extending therefrom in a grainward direction, a rotatable casting journaled in the bearing and having a plate extending therefrom in parallelism with the plate on said member and in contact therewith, a slot in the plate on the rotatable casting and concentric with the axis thereof, an opening in said rotatable casting extending the length thereof, a bar journaled in said opening and longitudinally adjustable therein, said bar bent intermediate its length to provide an arm extending stubbleward, a downward extension at the end of said arm, a headboard mounted on said extension, and a bolt extending through said slot and the plate on said member and a nut on said bolt operative to hold said plates together, or to release said plates from engagement with each other whereby said rotatable casting is actuable to raise or lower the headboard.

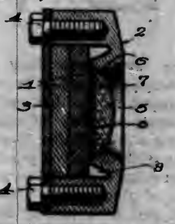
1,754,963. PRESSURE GAUGE. WILLIAM HENRY OSBORN, Harrison, N. Y. Filed Dec. 2, 1927. Serial No. 237,157. 2 Claims. (Cl. 73—81.)

1. The method of operating a heat responsive indicator for measuring gas pressures at temperatures independent of the temperature actuating said indicator, which comprises connecting a boiler containing a liquid with the vessel containing the gas whose pressure is to be measured, boiling the liquid within said boiler under said pressure,



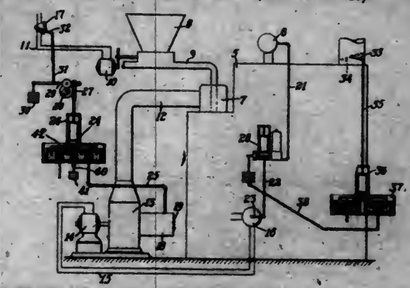
and condensing the boiler vapors between the boiler and the vessel containing the gas whose pressure is to be measured.

1,754,964. CLAMP FOR AUTOMOBILE BUMPERS. WILLIAM G. PANCOAST, Winnetka, Ill., assignor to Biflex Products Company, Waukegan, Ill., a Corporation of Delaware. Filed July 5, 1928. Serial No. 290,681. 2 Claims. (Cl. 88—1.)



2. A clamping member for automobile bumpers comprising a metal block of substantial thickness, having a circular recess in its front face converging to an opening in the rear face thereof, surrounded by a rearwardly facing annular seat, and a light reflecting jewel mounted in said seat, the surface of said recess being polished to provide a reflector for increasing the reflective intensity of said jewel.

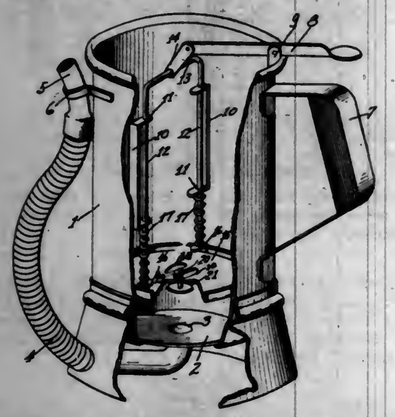
1,754,965. COMBUSTION-CONTROL APPARATUS. THOMAS A. PEEBLES, Mount Lebanon, Pa., assignor to John M. Hopwood, Dormont, Pa. Filed Apr. 5, 1928. Serial No. 267,628. 4 Claims. (Cl. 236—14.)



1. The combination with a boiler furnace for generating steam, of means for delivering fuel thereto, a blower for

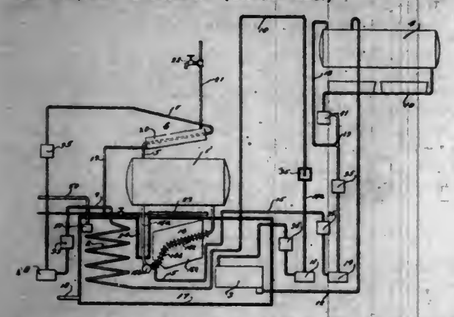
delivering air thereto, a constant size air inlet to said blower, a pressure responsive regulator operated by variations in the pressure of the steam output of the boiler for varying the speed of operation of said blower, a pressure responsive regulator operated by variations in the air inlet of said blower for controlling the speed of operation of said fuel delivery means, a damper located in the furnace outlet and a pressure responsive regulator operated by the variations in the furnace pressure built up by the air and fuel feeding devices for controlling the position of said damper.

1,754,966. OIL-DISPENSING MEASURING DEVICE. BENJAMIN PHILLIPS, Cincinnati, Ohio. Filed Apr. 16, 1928. Serial No. 270,269. 5 Claims. (Cl. 221—16.)



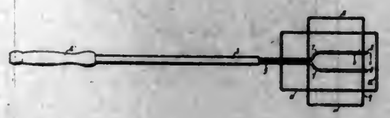
1. A dispensing device comprising a measuring vessel for receiving a charge of liquid to be dispensed, a dispensing conduit arranged in the bottom of the vessel, and means for increasing the flow of material through said conduit comprising a disc fitting loosely within the container and having a check-valved port therein, and means for manually operating said disc as a piston, said means comprising a pair of plunger rods attached to said disc at their lower ends, and an operating handle pivotally connected by means of a link and yoke to said plunger rods at their upper ends, said handle being pivotally mounted on the container wall at a point intermediate its length, and said plunger rods being provided with springs whereby said disc is normally forced into position seating against the bottom of the vessel.

1,754,967. REFRIGERATING SYSTEM. ALBERT C. SCHICKLER, Cleveland, Ohio, assignor to Edmund E. Allyne, Cleveland, Ohio. Filed June 30, 1927. Serial No. 202,724. 4 Claims. (Cl. 62—118.)



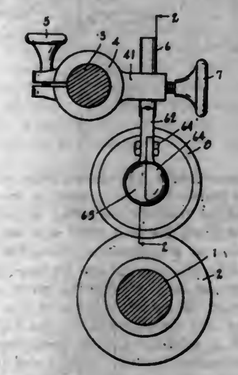
1. Absorption refrigerating apparatus, including a boiler absorber, a cooling loop through which the refrigerant and absorbing agent may circulate, said loop having two legs, one shielded from and the other in heat conducting relation with a cooler, and a gas return flow connection communicating with the heat conducting leg of said loop.

1,754,968. KITCHEN AND CAMP IMPLEMENT. BENJAMIN H. SMITH, Niles, Mich., assignor to Michigan Wire Goods Company, Niles, Mich. Filed Sept. 3, 1929. Serial No. 390,140. 8 Claims. (Cl. 53—5.)



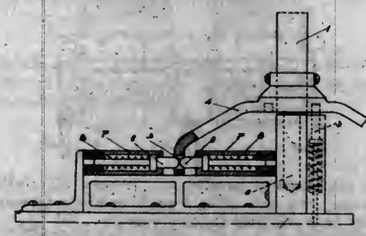
1. In an implement of the class described, the combination with a tubular handle of flattened cross section provided with a hand piece at its outer end and having a longitudinal slot in its under side closed at its end, of an implement provided with a shank telescoping within the handle, said shank being formed of a piece of wire folded upon itself to provide a laterally resilient loop whereby it is frictionally supported in its adjusted positions within the handle, the bight end of the shank being turned laterally and given a quarter twist to provide a finger piece projecting through said slot in said handle.

1,754,969. PAPER SLITTER. JOHN R. SPOOR, Kalamazoo, Mich. Filed May 17, 1929. Serial No. 363,743. 4 Claims. (Cl. 164—70.)



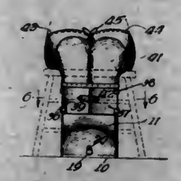
1. In a paper slitter, the combination of a bottom slitter on a suitable shaft, a top slitter with suitable bracket for supporting the same comprising a supporting fork with bearing heads and ball bearings at each side, a circular top slitter cutter, a shaft for supporting the same extending through the said ball bearings and adjustable therethrough, a socket in one bearing head with a spring and bearing disk therein for forcing the top slitter into engaging position, an adjusting pin with annular and longitudinal slots in its periphery, and a stop pin in the bearing head engaging said slots for adjustment to hold the top slitter out of engagement and permit it on adjustment to be forced into position by the actuating spring, as specified.

1,754,970. DISPLAY RACK OR TRAY. JOHANNES TACOMA and CAMILLE DE VLEESCHOUWER, Amsterdam, Netherlands. Filed Mar. 3, 1928, Serial No. 258,990, and in Great Britain Mar. 4, 1927. 3 Claims. (Cl. 211—163.)



1. In a device of the class described, a rotatable rack bar, a support for the rack bar, a member having a curved wall fixed to said rack bar, a hole in said wall, and abutting oppositely disposed resiliently mounted pins, said wall being adapted to pass between the pins, said pins being mounted on the rack bar support.

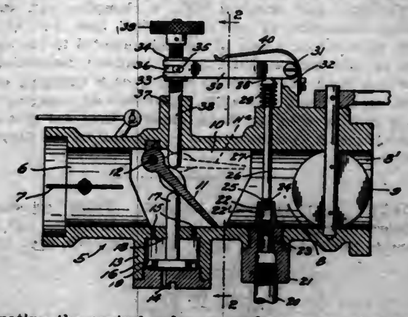
1,754,971. VAPORIZING APPARATUS OR APPLIANCE. CHARLES F. WAIGAND, Chicago, Ill., assignor of one-half to Frances E. Waigand, Chicago, Ill. Filed Dec. 12, 1928. Serial No. 325,482. 5 Claims. (Cl. 128—256.)



1. In a vaporizing apparatus, the combination of a metallic boot, a metallic plate separating the inside portion of the boot into a foot chamber and a fluid chamber, said separating plate having an upturned portion at its periphery, an annular rim integral with the said upturned portion, said annular rim having a peripheral dependent portion, an annular flange extending inwardly from the walls of said boot, said flange having a dependent wall portion, said flange and dependent wall portion of said flange being spaced relatively to the upturned portion of said separating plate and integral rim to form a vapor inlet from the said fluid chamber to the said foot chamber, spacing members between the said flange and the said metallic separating plate, an electrical heating element within the said fluid chamber, a foot rest within the said foot chamber, a door in the upper portion of the boot adapted to be opened for ventilation, and a hood removably secured to the upper portion of the said boot, said hood having two openings at its top portion.

1,754,972. CARBURETOR. HARRY C. WAITE, Evanston, Ill. asignor of one-sixth to J. P. Arthur, Oakland, Calif.; one-sixth to R. A. Dunann, Oakland, Calif.; one-sixth to C. F. Arthur, Los Angeles, Calif.; one-tenth to George I. Haight, Chicago, Ill., and Marcus Jacobson, Waukesha, Wis.; and one-tenth to Ebenezer Welk, Oakland, Calif.; R. A. Dunann, administrator of said Waite, deceased. Filed Feb. 20, 1924, Serial No. 693,969. Renewed Sept. 13, 1929. 5 Claims. (Cl. 261—49.)

1. In a carburetor, a body provided with a valve chamber, an inlet passage and a mixing chamber, a fuel feed nozzle provided in the mixing chamber, a valve for said nozzle, a control valve provided in said valve chamber for regulating the opening movement of the nozzle valve, a choker valve provided in the inlet passage, and means actuated by the partial vacuum in the valve chamber for



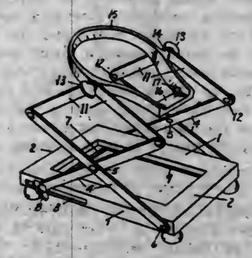
actuating the control valve to produce an opening movement of the latter, said means being rendered operative by closing of the choke valve.

1,754,973. CONDIMENT RECEPTACLE FOR KNIVES, FORKS, AND THE LIKE. HERMAN WALCH, Caldwell, Kans. Filed Apr. 14, 1928. Serial No. 270,025. 3 Claims. (Cl. 65—45.)



1. In an article of the class described, a hollow handle successively contracted and threaded towards the end and provided with a pair of beveled annular faces, an inner cap having a beveled edge crewed upon the outer threaded end portion to a seat against the first annular beveled face and a covering cap having a beveled edge enclosing the first cap and screwed upon the second threaded end portion to a seat against the second beveled face.

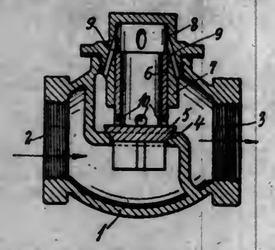
1,754,974. HEADREST. FRED C. WARFIELD, Jackson, Mich. Filed Jan. 23, 1928. Serial No. 248,770. 6 Claims. (Cl. 27—13.)



1. A head-rest comprising a frame-like base having horizontal slots in the side members thereof, a pair of pivot-

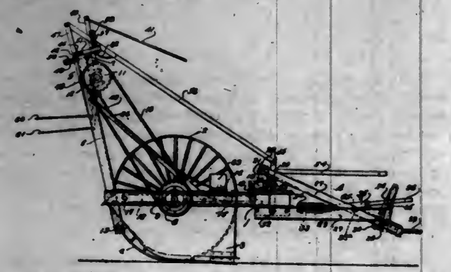
ally connected bottom links, one link of each pair being pivoted on the sides of said base, a clamping bolt arranged through said slots and the lower ends of the other links of the pair and provided with a clamping nut, coiled springs connected at one end to said base and at the other to said bolt, a pair of top links pivoted to the upper ends of said bottom links, and a headrest conformed to receive a head and provided with a neck engaging cross piece at its front end with thumb screws engaging the upper ends of said top links whereby they are pivotally connected and said head rest is secured in its adjusted positions.

1,754,975. NONRETURN VALVE. GEORG ANDERSEN, Oslo, Norway. Filed Dec. 29, 1927, Serial No. 243,391, and in Norway Mar. 1, 1927. 2 Claims. (Cl. 251—128.)



1. In a non-return valve the combination of a valve casing containing inlet and outlet, a valve disc controlling the communication between inlet and outlet, an upwardly open hollow piston on the upper side of the disc, apertures near the piston bottom connecting the interior of said piston with the outlet, a stationary downwardly open cylinder for said piston and separate apertures near the upper end of the cylinder connecting its interior top space with the outlet.

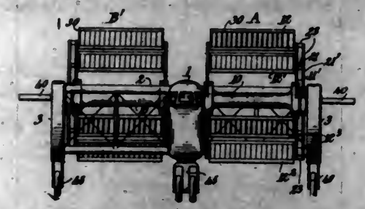
1,754,976. WHEELED SCRAPER. ARTHUR P. ARMINGTON, Willoughby, Ohio, assignor to The Euclid Crane & Hoist Company, Euclid Village, Ohio, a Corporation of Ohio. Filed Mar. 21, 1927. Serial No. 177,064. 7 Claims. (Cl. 37—132.)



1. Earth moving apparatus comprising, a wheeled frame, a scraper bucket mounted for movement about a rearward supporting connection therewith, means movable in said frame for adustably supporting the forward end of said bucket in loading position, draft gear associated with said movable means and with said frame whereby the elevation of the lip of the bucket in said position is dependent upon resistance of the same to pull on said draft gear to advance the apparatus, and means for raising the forward end of the bucket to load carrying and dumping positions.

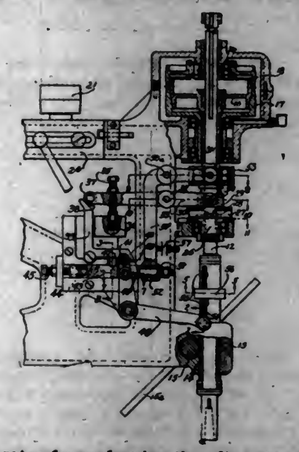
1,754,977. VERTICAL-RISING AIRPLANE. AXEL G. BERGMAN, New York, N. Y. Filed July 13, 1925. Serial No. 43,294. 12 Claims. (Cl. 244—25.)

1. A vertically rising airplane including oppositely rotating frames revolving about axes substantially transverse to the horisontal line of flight of the machine, and aerofoils carried thereby through substantially circular orbits, said aerofoils comprising inverted, trough-like surfaces, said trough-like surfaces being disposed with their



valleys substantially parallel to the axes of rotation of the frames, and each of said surfaces being formed of a plurality of feathering shutter vanes.

1,754,978. MACHINE FOR SETTING THREADED DEVICES. WILLIAM D. BUSS, Cleveland, Ohio, assignor to The Hammond Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926. Serial No. 134,101. 4 Claims. (Cl. 81—54.)



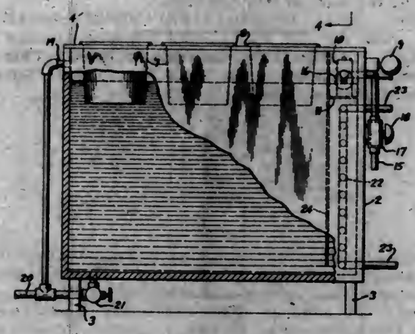
1. Apparatus for performing threading operations, comprising a tool spindle, a rotatable driver, driving connections between said driver and spindle including clutch means driven thereby and a movable member yieldable upon abnormal torque resistance of the spindle to the driving effect of said clutch means, yielding means effective upon said clutch means and normally urging the same to release position, latch means for holding said yielding means retracted with the clutch means in driving relation, and an operating connection from said torque responsive member to said latching means effective upon movement of the torque responsive member, to cause release of the clutch means by said yielding means.

1,754,979. CULINARY UTENSIL. ROYAL ALBERT COCHRAN, Atkins, La. Filed Feb. 11, 1929. Serial No. 339,081. 1 Claim. (Cl. 294—29.)



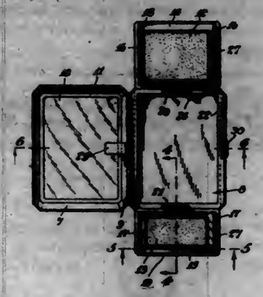
In a device of the character described, a handle comprising oppositely directed U-shaped upper and lower sections pivotally joined together at their rear end, a lifting plate secured to the forward end of the lower section, an upwardly extended hand guard at the rear of the lifting plate passing through the upper section of the handle, and downwardly directed gripping blades upon the forward end of the upper section of the handle.

1,754,980. FIRE-BUCKET TANK. WILLIAM F. CONRAN, Brooklyn, N. Y. Filed Jan. 13, 1928. Serial No. 246,620. 3 Claims. (Cl. 169—1.)



1. Fire apparatus comprising a water tank, a hinged cover for said tank having a series of openings in which to support buckets, and means for raising the cover when not held down by buckets with liquid therein.

1,754,981. VANITY CASE. CHARLES N. CORTELL, New York, N. Y. Filed Mar. 8, 1928. Serial No. 259,944. 5 Claims. (Cl. 132—83.)



1. A vanity case comprising a box section, cover plates hinged to opposite ends of the same and cooperating to form a closure to the box section, retaining slideways on the under faces of said cover plates, and toilet compacts slidably and detachably engageable with said slideways.

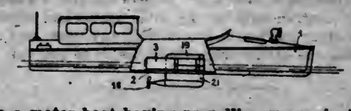
1,754,982. PUMP JACK. BEN J. CRIST, Ellsworth, Minn. Filed Jan. 16, 1928. Serial No. 247,169. 1 Claim. (Cl. 74—14.)

A pump jack stand comprising a horisontally disposed base plate, a bearing cast integral with and extending across one end of said plate, a pump clamp section formed on the bearing, depending legs formed on the opposite end of the base plate from said bearing and clamp section, an



oil pan case in said plate between the bearing and legs, and bearing sections formed on opposite sides of the plate and communicating with said pan.

1,754,988. MOTOR BOAT. ERNESTO CUMBO, Milazzo, Italy. Filed May 8, 1927, Serial No. 188,587, and in Italy May 4, 1926. 5 Claims. (Cl. 115—41.)



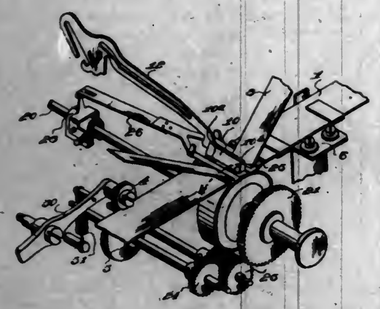
1. In a motor boat having propelling means in the central portion of its hull, the combination of a well in said central portion of said hull opening in the water under it, a casing having a bottom and located in said well, a motor unit and a propeller mounted in said casing bottom, a lower portion of said motor unit and said propeller depending under the said casing bottom and the upper portion of said motor unit being enclosed within said casing, and cooperating means in said well and in said casing to support said casing with said bottom at the lower mouth of said well for the normal operation of the boat and to lift said casing into said well.

1,754,984. ELECTRIC SOCKET. JOHN CUTHBERT, Chicago, Ill., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill., a Corporation of New York. Filed May 21, 1920. Serial No. 383,082. 2 Claims. (Cl. 173—358.)



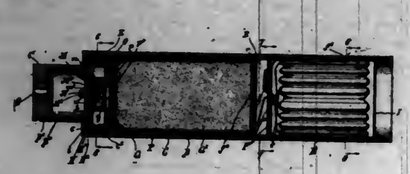
1. A contact cartridge for axial insertion into a socket shell comprising an insulating base, a pair of conductor terminals, a center contact held in position on said base by one of said terminals, and a plug receiving shell and insulating sleeve held in position on said base by the other of said terminals, said terminals being located within the plug receiving shell.

1,754,985. TELEGRAPH-PRINTER TAPE-FEED MECHANISM. ROBERT F. DIEKES, Jamaica, N. Y., and EVAN R. WHEELER, North Plainfield, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1927. Serial No. 175,587. 7 Claims. (178—42.)



1. In a type-bar printing telegraph machine wherein the printing elements are pivotally mounted type-bars which are provided with a plurality of longitudinally spaced characters and are always rocked to the same printing position, tape feeding means for moving a receiving tape forwardly after each character is printed and maintaining the same continuously in the same plane and which imparts no other motion to the tape at any time, and means for causing one or the other character to be printed.

1,754,986. FIXED AMMUNITION. LOUIS L. DRIGGS, Jr., New Rochelle, and HENRY B. FABER, New York, N. Y. Filed Jan. 8, 1929. Serial No. 331,127. 6 Claims. (Cl. 102—24.)



1. Fixed ammunition for use with low power smooth bore firearms, having a short barrel of large calibre, said ammunition comprising a cartridge case forming an auxiliary barrel for the small arm and provided with a stem adapted to slide freely in the gun barrel, with a propelling charge in said stem, the said stem having a chamber for the expansion of the gases from the propelling charge, and said cartridge case having an enlarged loading chamber in front of said stem, with a projectile mounted in said loading chamber, and adapted to be ejected therefrom by the gases from the propelling charge, said projectile comprising a tube slidably mounted in the loading chamber of the cartridge case, a parachute and flare mounted in said tube, an expelling charge also mounted in said tube for ejecting said parachute and flare and for igniting said flare, means for suspending said tube and said flare from said parachute as they fall together through the air, and means, controlled by the firing of the small arm, for igniting said expelling charge.

1,754,987. PHOTOGRAPHIC-FLASH-LIGHT CARTRIDGE. LOUIS L. DRIGGS, Jr., New Rochelle, and HENRY B. FABER, New York, N. Y. Filed Jan. 8, 1929. Serial No. 331,128. 10 Claims. (Cl. 102—21.)

1. A cartridge for use in flash-light photography comprising a cartridge case with an expelling and igniting charge mounted in the rear end thereof, an air chamber in front of said charge, a charge of oxygen bearing material in front of said air chamber, and a container containing



flash light powder, mounted in said cartridge case in front of said oxygen bearing charge, with frangible diaphragms forming the heads of said container.

1,754,988. RAILWAY-SIGNAL FUSEE PLUG. FRANK DUTCHER, McKeesport, Pa. Filed Nov. 7, 1927. Serial No. 231,611. 6 Claims. (Cl. 102—24.)



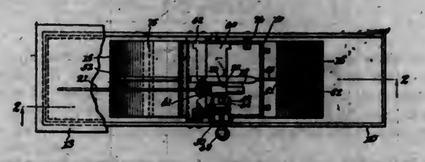
1. A railway signal fusee comprising a tube, a plug having at its end a disk carrying a plurality of peripheral pointed projections, the projections normally extending beyond the plug, whereby when the plug is placed in the tube the projections engage the wall and prevent the removal of the plug.

1,754,989. PNEUMATIC SPRING. ELOV ERICSSON, St. Paul, Minn. Filed Mar. 20, 1924. Serial No. 700,562. 4 Claims. (Cl. 267—65.)



1. A pneumatic spring comprising a normally vertical cylinder having a compression chamber in its upper end, a tubular piston extending into said cylinder from the bottom thereof and closed at its outer end, a head constituting a closure for the inner end of said piston whereby a compartment for air is formed therein, a restricted continuously open passage-way for air extending from said chamber to said compartment adapted to permit the passage of air to and from said chamber, an annular receptacle for lubricant formed in said piston adjacent to the walls of the cylinder, means separating said receptacle from said cylinder, said receptacle and conduit being arranged to prevent the passage of oil downward through said conduit from said receptacle, and means for admitting air under pressure to said cylinder.

1,754,990. REVOLVING FLUSHING TANK. MIGUEL ESNARD, Matanzas, Cuba. Filed Oct. 17, 1929. Serial No. 400,875. 12 Claims. (Cl. 4—32.)



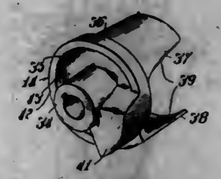
1. In an improved flushing apparatus, a tank, a tumbling drum in said tank having half portions of differential capacities whereby to over-balance the full drum, a normally open valve for admitting water to the drum, detent means for releasably holding the drum in an upright position with the water valve open, trip means on the drum for acting to close the valve when the drum is full and when said detent means is released and for further acting to hold the drum in the upright position, means to release said trip means, and ballast means for restoring the drum to the upright position.

1,754,991. TROLLEY-WIRE SPLICE JOINT. SAMUEL J. EVANS, Princeton, W. Va. Filed Jan. 25, 1928, Serial No. 249,326. Renewed Nov. 30, 1929. 9 Claims. (Cl. 191—44.1.)



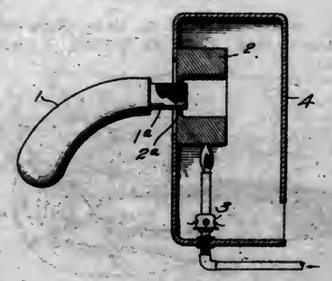
1. A splice joint for wires or cables comprising complementary sections having overlapping shouldered portions interlocking when the sections are joined resisting longitudinal separation of the sections and having inclined wire receiving tunnels formed therein with means for crimping therein the ends of wires inserted in said tunnels.

1,754,992. CENTRIFUGAL PUMP. AXEL O. FABRIN, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed Dec. 6, 1926. Serial No. 152,742. 12 Claims. (Cl. 103—115.)



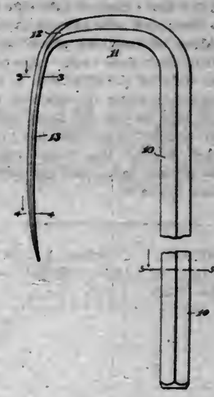
1. An impeller for centrifugal pumps comprising a spiral vane of tapered form diminishing in thickness for its entire length from its leading edge to its trailing edge, said vane defining a single peripheral outlet for the discharge of all of the impelled liquid, and a counterbalance adjacent to such outlet.

1,754,993. METHOD OF AND APPARATUS FOR SIZING HARD-RUBBER ARTICLES. FRANK FENTON, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 7, 1928. Serial No. 304,528. 4 Claims. (Cl. 18—55.)



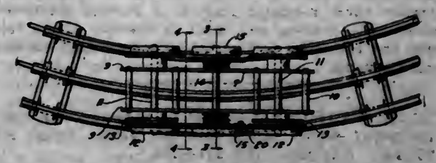
3. Means for shaping hard rubber articles comprising a cylindrical member having at one side a narrow inwardly directed flange, and a gas burner arranged to direct a flame against said body.

1,754,994. SHEET-METAL BUMPING-OUT TOOL. WILLIAM FERGUSON, Flint, Mich. Filed May 4, 1928, Serial No. 275,216. Renewed Sept. 27, 1929. 19 Claims. (Cl. 81—15.)



1. A bumping tool comprising a handle, a coupling portion extending at an angle from one end thereof, and an anvil integral with said portion and disposed substantially in parallel spaced relation with respect to the handle and having its inner face uninterrupted throughout.

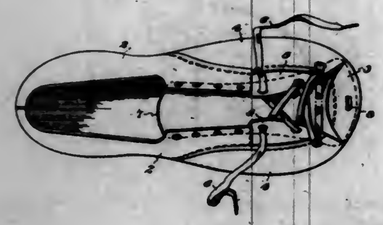
1,754,995. TOY LOCOMOTIVE WHEEL. JOHN T. GALLIGAN, Bridgeport, Conn., assignor to The Ives Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 8, 1928. Serial No. 259,995. 5 Claims. (Cl. 105—196.)



1. In a toy railway car wheel, a truck frame, an axle mounted therein, wheels secured to the axle, discs movably

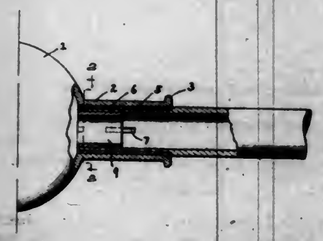
fitted against the side of the wheels and having annular flange portions extended beyond the periphery of the wheels, and springs interposed between the frame and the flanges to yieldably hold the latter against the sides of the wheels.

1,754,996. SHOE. LUCIUS L. GANT, Shreveport, La. Filed Aug. 9, 1927. Serial No. 211,805. 1 Claim. (Cl. 36—45.)



A shoe comprising a sole, and an upper including quarters secured to the sole and having forward portions spaced above the sole, side pieces secured to the sole and lower side edges of the forward portions of said quarters and extending forwardly from the quarters and having their front ends spaced from each other, a toe piece secured to said sole between the front ends of said side pieces and having its sides free from the side pieces, flaps secured along the upper side edges of the side pieces in front of said quarters and having their rear ends overlapped by but free from the forward ends of the quarters, a tongue disposed beneath and overlapped along its sides by the side pieces, flaps and quarters, and having its front end extending beneath and loosely connected to said toe piece, and a lace passed transversely through the tongue rearwardly of the toe piece, the side pieces, flaps, and quarters being formed with eyes to receive the lace.

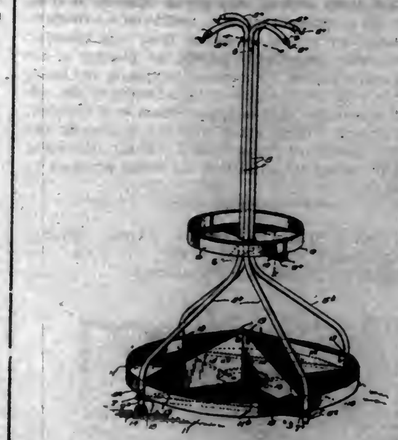
1,754,997. BUSHING. CLIFTON V. GANTT, Wagener, S. C. Filed Aug. 22, 1928. Serial No. 301,291. 3 Claims. (Cl. 64—12.)



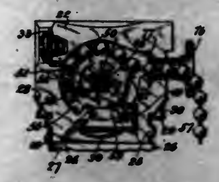
1. In combination with a universal joint housing, of a propeller shaft rotatable therein, a bushing interposed between said housing and shaft, a bushing within said shaft, and means for locking said first mentioned bushing in said housing.

1,754,998. FRUIT-DISPLAY RACK. ALBERT J. GEARTTS, Escanaba, Mich. Filed Apr. 17, 1929. Serial No. 355,791. 6 Claims. (Cl. 211—154.)

1. In a device of the class described comprising a standard having divergent base-defining legs, brace means connecting said legs, and a sectional display receptacle adapted to be assembled upon said brace means, within the confines of said array of leg, means for holding said receptacle assembled, and the width of said receptacle being such that the same can not be removed when assembled, said legs engaging same to prevent shifting.

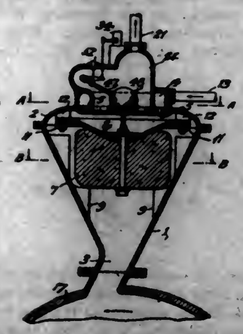


1,754,999. ELECTRIC FITTING. GILBERT W. GOODRIDGE, Fairfield, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 8, 1927. Serial No. 166,702. 18 Claims. (Cl. 173—354.)



1. An electric fitting comprising a longitudinally split body having a threaded boss at one end, and a screw shell contact screwing on said boss and having a wedging engagement with the split body beyond said boss to hold the parts firmly united.

1,755,000. PRIMING MEANS FOR CENTRIFUGAL PUMPS. OTTO HAENTJENS, Hazleton, Pa. Filed Mar. 16, 1929. Serial No. 347,659. 11 Claims. (Cl. 103—113.)



1. A priming appliance for pumping systems having a centrifugal pump, said appliance comprising a casing with

a chamber connected therewith having a float and a diaphragm connected to the float, a second chamber above said diaphragm and in communication with the priming pump, said upper chamber having means for supplying water thereto and being in communication with the first mentioned chamber around the rim of the diaphragm.

1,755,001. PATTERN AND GUIDE STRIP. GEORGE W. HARLEY, Collingswood, N. J. Filed Oct. 31, 1927. Serial No. 230,116. 6 Claims. (Cl. 94—17.)



5. A method of making a pattern and guide strip consisting in incising the strip intermediate its marginal edges to define a plate, after which the plate is twisted to project portions thereof on both sides of the strip, the faces of which are parallel to the longitudinal axis of the strip.

1,755,002. CLUTCH-PROTECTING DEVICE. CHARLES M. HIBBETS, Claude, Tex. Filed May 3, 1927. Serial No. 188,491. 4 Claims. (Cl. 74—81.)



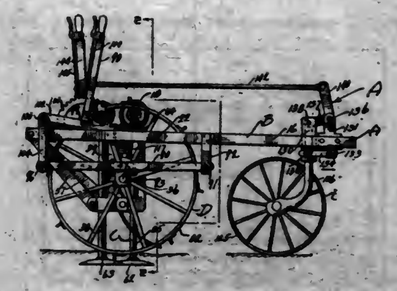
3. In combination with the forwardly inclined portion of the floor board of an automobile and a clutch pedal operating through the said inclined portion, and a curved foot piece having pivotal connection at one end with the clutch pedal and adapted to bear against the said inclined portion of the floor board, the free end of said foot piece being adapted to be engaged by the foot of the operator when it is operably positioned on the clutch pedal and in a manner to relieve the clutch and its bearings of all foot pressure incident to the otherwise abusive practice of "riding the clutch pedal".

1,755,003. METHOD FOR FASTENING PYROTECHNIC ELEMENTS OR FIRECRACKERS TOGETHER. THOMAS G. HITT, Seattle, Wash. Filed Apr. 3, 1929. Serial No. 352,237. 8 Claims. (Cl. 102—22.)



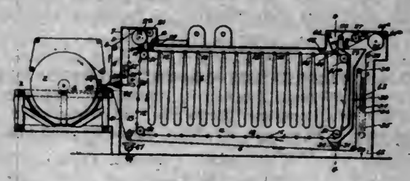
1. A method for detachably connecting together a plurality of pyrotechnic display elements having looped fuses, consisting of connecting each pyrotechnic element together in series by linking the loops together.

1,755,004. ROTARY DISK WEEDER. HERBERT V. HOSKINS, Waterville, Wash. Filed Aug. 16, 1926. Serial No. 129,553. 2 Claims. (Cl. 97—43.)



1. In a weed cutting machine the combination of a main frame, a shaft horizontally and rotatably supported by the main frame, vertical shafts supported by the frame, gear means connecting the horizontal shaft to the vertical shafts for rotation of the latter upon rotation of the former, cutting disks at the lower ends of said vertical shafts, running gear including supporting wheels, means for adjusting the axes of the supporting wheels towards and away from the frame, and a driving connection between a wheel of the running gear and shaft, operative in any vertically adjusted position of the wheel.

1,755,005. FILTER-CAKE LOOP DRIER. ALPHEUS O HURXTHAL, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 24, 1926. Serial No. 104,501. 10 Claims. (Cl. 159—7.)

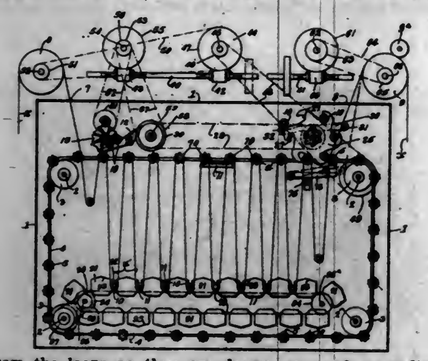


1. The combination of a filter drum; a drier; an endless conveyor passing around the drum and through the drier, said conveyor being looped between the drum and the drier; means for driving the filter drum and thereby advancing that portion of the conveyor carried thereby; means independent of the drum driving means for advancing that portion of the conveyor located within the drier; and means for automatically controlling the speed of the drum through the medium of the loop formed in the conveyor between the drum and the drier.

1,755,006. LOOP DRIER. ALPHEUS O. HURXTHAL, Philadelphia, Pa., assignor to Proctor and Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 3, 1928. Serial No. 290,092. 11 Claims. (Cl. 271—2.2.)

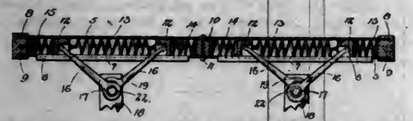
1. The combination in a loop drier, of a casing enclosing a drying chamber; an endless conveyer; girts carried by the conveyer over which the material is to be looped; means for feeding the material to the conveyer; a feed wheel for placing poles on the material between the

girts to form the loops; an elevating wheel at the discharge end of the drier arranged to receive the poles



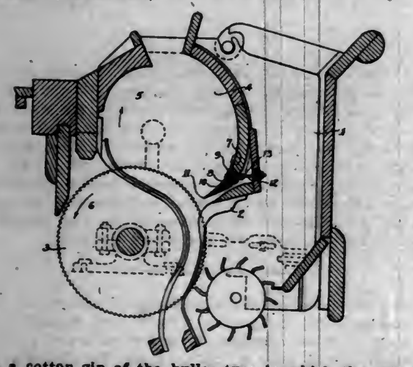
from the loops as they are drawn up; and an endless conveyer for carrying the poles from the discharge end of the drier to the delivery end thereof.

1,755,007. BUMPER BAR. THOMAS JACKSON, Mount Hawthorn, near Perth, Western Australia, Australia. Filed Mar. 20, 1929, Serial No. 348,609, and in Australia Oct. 22, 1928. 8 Claims. (Cl. 293—55.)



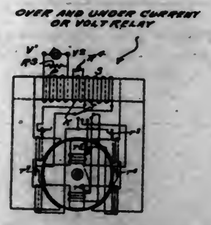
1. A bumper bar for motor cars, comprising a tubular member closed at each end and having a longitudinal slot, a pair of pistons slidable in said tubular member, yieldable means between each of said pistons and the adjacent end of the tubular member, and a pair of arms having their forward ends extending through said slot and articulated, respectively, with one of said pistons, said arms having their rear ends mounted to swing on a common vertical pivot.

1,755,008. CURVED SEED BOARD FOR COTTON GINS. WILLIAM MAURICE JOHNSTON, Amite, La., assignor to Gullett Gin Company, Amite, La., a Corporation of Louisiana. Filed Apr. 8, 1929. Serial No. 353,452. 1 Claim. (Cl. 19—61.)



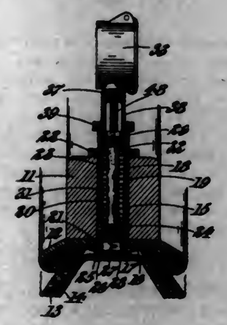
In a cotton gin of the huller type in which the cotton is fed into the roller box between the saws and the seed board, a roll box, saws having peripheral portions projecting into said roll box, a seed board pivotally mounted at the lower portion of said roll box tapering into a sharp straight knife-like edge outside of the cylinder of revolution of the edges of said saws.

1,755,009. ELECTRICAL MEASURING INSTRUMENT. CHMOUL LEIB LIPMAN, London, England, assignor of a part interest to Nalder Brothers & Thompson Limited, London, England. Filed May 12, 1927, Serial No. 190,948, and in Great Britain May 20, 1926. 11 Claims. (Cl. 171—95.)



1. An electric alternating current instrument comprising an electromagnet, a laminated core for said magnet, a main energizing winding on the said core, symmetrically disposed polar surfaces on said magnet, a drum of electric conducting material adapted to be rotated through an arc between said polar surfaces, a fixed inner core of magnetic material within said drum, polar projections on said inner core and a winding on one of said polar projections of said inner core extending close to the inner periphery of said drum arranged and connected to produce a magnetic field in said polar surfaces substantially at right angles in time phase and space direction to that produced therein by the said main magnetizing winding.

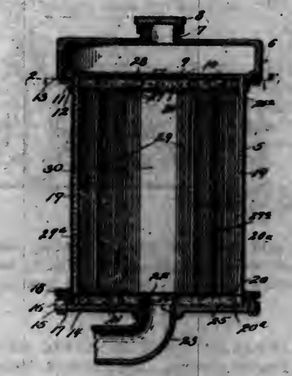
1,755,010. PRESSURE-INDICATING DEVICE FOR USE WITH PNEUMATIC TIRES. CHARLES WILLIAM GODSON LITTLE, Enfield, England. Filed Nov. 10, 1927, Serial No. 232,365, and in Great Britain May 27, 1927. 5 Claims. (Cl. 73—111.)



1. A pressure indicating device for use on wheels shod with pneumatic tires comprising a gauge having a tubular extension, a tubular carrier to receive the gauge extension and adapted to be permanently mounted on the wheel, a gauge actuator contained within the carrier, means whereby said actuator is connected at one end with the gauge mechanism and means at the other end having a pressure plate to contact with the air tube of the tire and a spring encircling said actuator and adapted to be compressed against said last mentioned means by the tubular extension when entered into thec arrier.

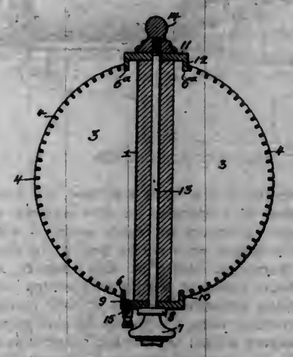
1,755,011. AIR CLEANER OR FILTER FOR CARBURETORS. WARREN V. LUDLAM, Meridian, Miss. Filed Sept. 15, 1927. Serial No. 219,758. 7 Claims. (Cl. 183—17.)

4. An air cleaner of the class specified, comprising an outer reticulated casing which admits atmospheric dust laden air throughout the whole area thereof to the interior of the cleaner, the reticulated casing forming the outer cover of the cleaner, an oil receptacle at one extremity of the cleaner having a base with openings therethrough, an inner removable receiver consisting of spaced and



rigidly held diaphragms having openings therethrough, and filaments extending longitudinally and terminally connected to the respective diaphragms and arranged around a central open passage having an outlet at one end, and a pipe connected to the outlet for pplying the cleaner to a carburetor.

1,755,012. AERIAL FOR RADIO APPARATUS. JAMES H. MATHESON, Wyomissing, Pa., assignor to Donald E. Matheson, Edgewood Park, Pa. Filed Nov. 10, 1926. Serial No. 147,589. 6 Claims. (Cl. 250—33.)



3. The combination in an aerial for radio apparatus, of a hub; a series of segments mounted on the hub; notches in the segments; and an aerial-wire coiled around the carrier and resting in the notches of the segments.

1,755,013. GARMENT DRIER. JOHN W. MCCORMICK, Tulsa, Okla. Filed Jan. 17, 1929. Serial No. 333,175. 4 Claims. (Cl. 34—26.)



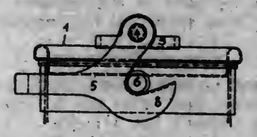
1. In a garment drier, a housing, a rotatable garment drying frame in the housing, a heater at the upper end of the housing, means for withdrawing heated air from the upper end of the housing and delivering the same to the lower end of the housing for upward movement therein, and a fan wheel impeller on the rotatable drier operated by the current of air entering the lower end of the housing.

1,755,014. THUMB SAVER. CARRIE BEURET MORRISON, Pawnee Station, Kans. Filed Oct. 31, 1929. Serial No. 403,819. 3 Claims. (Cl. 2—21.)



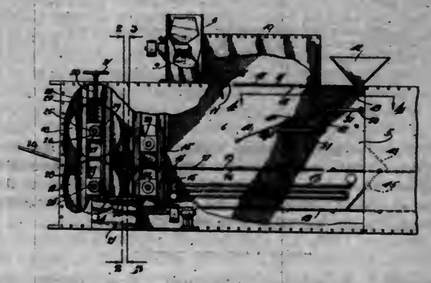
1. A finger protector of the character described comprising a resilient body portion having an opening therethrough, spaced inwardly from the opposite ends thereof resilient securing means mounted on the body for removably securing the body on a finger, inlay means adapted to be mounted on the inner face of the body portion and to substantially overlie the opening, said inlay means being positioned spaced inwardly of the outer face of the body, and means for securing the inlay on the body.

1,755,015. CONTAINER CLOSURE. EMANUEL MÜLLER, Unter-Engstringen, near Zurich, Switzerland. Filed Feb. 28, 1929, Serial No. 343,288, and in Switzerland Apr. 4, 1928. 3 Claims. (Cl. 220—55.)



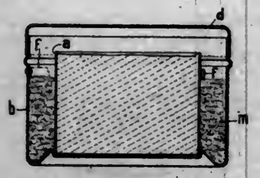
2. A releasable closure between a milk can and its cover comprising conical trunnions associated with the can and an elastic bow pivoted relatively to the cover, with which it is operatively connected, and provided with hook-shaped cam ends shaped similarly to said trunnions for engaging the latter, the elasticity of the bow allowing of movement of said hook-shaped ends axially of said trunnions.

1,755,016. HAY AND GRAIN HANDLING MACHINE. JOHN LINLEY MURPHY, Ithaca, N. Y. Filed Sept. 12, 1929. Serial No. 392,122. 2 Claims. (Cl. 34—31.)



2. An apparatus of the character described, comprising a drying chamber, means for heating and ventilating the same, means for conveying material through said chamber, a pair of relatively adjustable heatable rollers located in advance of the chamber, a second pair of internally heated rollers in advance of the first rollers, and a closed sweating chamber between the two pairs of rollers.

1,755,017. METAL CONTAINER WITH LID FOR SEMI-FLUID AND THICK SUBSTANCES. ADOLF NEBEL, Basel, Switzerland. Filed June 11, 1926, Serial No. 115,337, and in Switzerland Aug. 18, 1925. 1 Claim. (Cl. 220—10.)



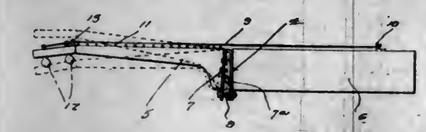
A metal container for semi-fluid and thick substances, such as fats, waxes, shoe cream and the like, comprising an outer box, a lid thereon, a piece of unperforated material in form of a box open at the top, freely inserted in said outer box to constitute an inner box arranged to receive said substance as a compact filling, spring means to maintain same in the outer box with exclusion of any mutual contact between the side walls of both boxes when stripping off the substance and of any soiling of the hand holding the container and in such a position that an intermediate annular space is reserved between the side walls of said boxes, and a filling material with a volatile fluidifying agent within said intermediate annular space, having a greater volume than the top layer of the substance within the inner box and giving off its volatile agent to saturate said top layer of smaller volume of the substance within the inner box, for the purpose of realizing a concentric action of the volatile agent round about on the top layer of the substance in order to prevent same from solidifying and degradation.

1,755,018. SEWING WIRE FOR FLAT ROPE. RICHARD NITSCH, Warren, Ariz. Filed May 31, 1929. Serial No. 367,456. 3 Claims. (Cl. 117—52.)



1. A composite sewing strand or lacing for metal rope composed of hard and soft wires one embedded in the other

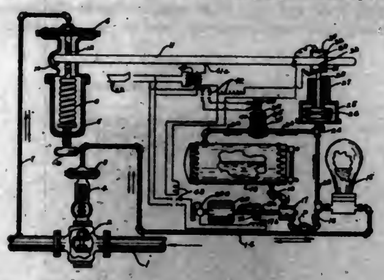
1,755,019. MUSICAL INSTRUMENT. FRANK C. PARKER, Jr., Norristown, Pa. Filed May 3, 1929. Serial No. 360,023. 2 Claims. (Cl. 84—293.)



1. In a stringed musical instrument of the class described, a body, a neck, and a resilient hinged connection between the body and neck, said connection being in the form of a U-shaped spring, the arms of which are rigidly fastened to the body and neck respectively.

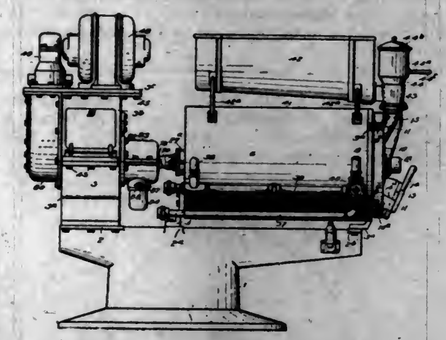
1,755,020. ELECTRIC CONTROL FOR REDUCING VALVES, ETC. CHARLES D. PETERSON, Marshalltown, Iowa, assignor to The Fisher Governor Company, Marshalltown, Iowa. Filed Oct. 3, 1928. Serial No. 310,153. 9 Claims. (Cl. 50—10.)

1. A pipe line for conveying a fluid under pressure, a valve for regulating the flow of fluid through said line, an actuating member for said valve, a chamber communicating with said pipe line, posterior to said valve, a second actuating member arranged in said chamber, means including a closed fluid circuit for pumping a fluid operating



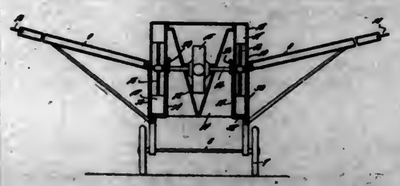
medium to said first mentioned actuating member for operating said valve, and means operated by said second actuating member for controlling said pumping means.

1,755,021. APPARATUS FOR TREATING MATERIALS. LEROY S. PFOUTS, Canton, Ohio; Joan S. Pfouts administratrix of said Leroy S. Pfouts, deceased. Filed Aug. 18, 1926. Serial No. 129,980. 8 Claims. (Cl. 259—105.)



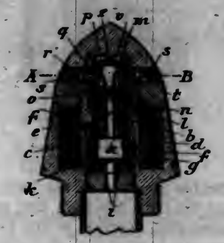
1. In apparatus of the class described, the combination with a support, of a cylinder on said support, a pair of inner and outer members rotatably mounted within said cylinder and provided with shafts projecting through the inner head thereof, a casing on said support, a pair of concentric shafts mounted within said casing, clutch elements projecting through one wall of said casing for detachable connection with the shafts of said members, respectively, gearing within said casing for driving said concentric shafts in opposite directions, means for driving said gearing, and a lubricant collecting wall surrounding said clutch elements.

1,755,022. AEROPLANE. GUSTAV PLOGER, Dell, Mont. Filed July 20, 1929. Serial No. 379,729. 5 Claims. (Cl. 244—18.)



1. An aeroplane comprising a fuselage, an air compartment formed therein opening through one wall of the fuselage, air compression chambers at opposite sides of the fuselage having pressure generating means operatively mounted therein, said chambers having communication with the interior of the air compartment, and means in the compartment against which the air is driven for producing a lifting effort upon the fuselage.

1,755,023. ELECTRIC FUSE FOR PROJECTILES. HERBERT RÜHLEMANN, Sommerda, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany, a Corporation of Germany. Filed June 22, 1927, Serial No. 200,683, and in Germany June 26, 1926. 6 Claims. (Cl. 102—38.)



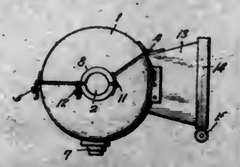
6. An electric igniter for projectiles comprising a source of current, a regulating resistance, a priming composition, a resistance wire for the composition, and a condenser for storing the current from the source of current necessary for heating the wire to fire the composition.

1,755,024. DRAFTING INSTRUMENT. ARTHUR G. SANDEN, South Bellingham, Wash. Filed Mar. 21, 1929. Serial No. 348,874. 8 Claims. (Cl. 33—104.)



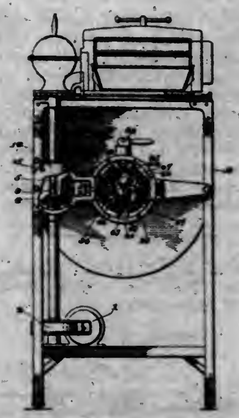
1. A drafting instrument consisting of a body formed with a base, a side at 90° thereto, and a third side formed by two right lines meeting at an angle of 165°, said body having an irregular curve opening therein, one side of said opening being for a major portion of its height, a right line disposed at an angle of 75° with respect to said base, the opposite side of said irregular curve opening being formed for a major portion of its extent by a segment of a circle whose center is the meeting point of said two right lines.

1,755,025. SOCKET FOR THE COMBINATION X-RAY RADIATORS. STEFAN SCHVACHO, Trencianske Teplice Lazne, Czechoslovakia. Filed Oct. 29, 1927. Serial No. 229,694. 2 Claims. (Cl. 174—177.)



1. A radio-therapeutic device of the character described, comprising a globe shaped casing constituting a lamp socket formed in two concentric sections and provided with a plurality of tubular arms for the insertion of lamps of different characters, said arms being provided with locking means for the lamp.

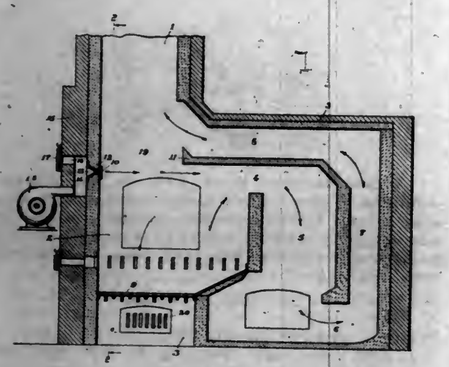
1,755,026. ROTARY DRIVE MECHANISM. JOSEPH J. SCHMITT, Algoma, Wis. Filed Aug. 18, 1927. Serial No. 213,842. 12 Claims. (Cl. 74—50.)



1. In a rotary drive mechanism of that type including a drive shaft, a pair of gears loosely mounted thereon, a clutch slidable on the shaft for alternately clutching the gears thereto, a driven shaft, and a gear secured thereto and meshing with the drive shaft gears, the combination of a support, a clutch shifting member pivoted thereto and formed with a transverse slot, a trip member pivoted to the support and having an arm extending through said slot, a link pivoted to the trip member, means connected with the trip member and link to yieldingly hold them off center with respect to each other, said support and link having coacting means for limiting relative movement between the link and trip member, and means adapted to be actuated by the driven shaft gear for engagement with said arm to shift said trip member and link past dead center to provide for the operation of said clutch shifting member.

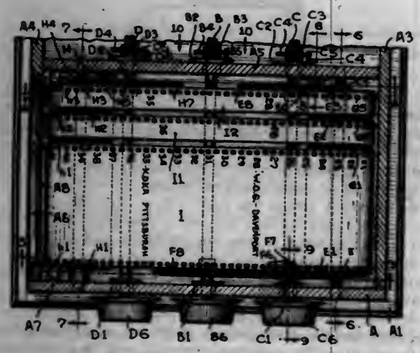
11. In combination with driving and driven members, operative connections therebetween to effect reversal of movement of the driven member, said operative connections embodying a movable element, a shifter operatively connected with said movable element, means carried by one of said members for actuating said shifter at specified intervals, and a device selectively positionable in and out of the path of said shifter for arresting movement of the same and retaining said movable element in neutral position, said device comprising a manually actuable plunger, and spaced pivotally mounted pawls carried by the same and defining an intervening shifter receiving space.

1,755,027. INCINERATOR. AATTO P. SAHA, Brooklyn, N. Y. Filed May 16, 1928. Serial No. 278,325. 3 Claims. (Cl. 110—18.)



1. An incinerator, including a furnace chamber, means forming a tortuous passageway extending from said chamber, means forming a smokestack, the smokestack merging at one point into said tortuous passageway and at a lower point into the upper part of said chamber, and means forming an air damper extending across said lower point, whereby an article passing downward through the smokestack may drop directly into said furnace chamber through said air damper while the smoke and products of combustion are directed through said tortuous passageway into said smokestack above said lower point.

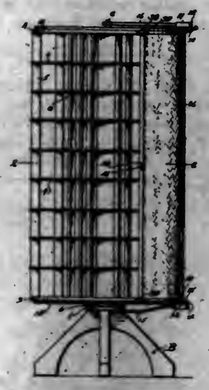
1,755,028. RADIO APPARATUS. ALFRED F. SANFORD, Knoxville, Tenn. Filed Oct. 8, 1925. Serial No. 61,296. 13 Claims. (Cl. 116—124.1.)



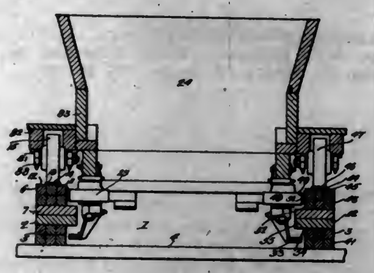
1. In an apparatus of the kind described, the combination with a tuning shaft, of an endless belt occupying a path surrounding the tuning shaft, positive belt driving and supporting means intervening the tuning shaft and the belt, substantially as described.

1,755,029. RACK. EMILE SCHREIBER, Atchison, Kans. Filed May 31, 1929. Serial No. 367,364. 4 Claims. (Cl. 211—144.)

1. In combination with a rotating rack, a roller supported adjacent to said rack, a flexible member coacting with the roller and adapted to wind thereon and unwind therefrom, said flexible member when unwound serving to enclose the rack, means for connecting the outer end portion of the flexible member to the rack, and means in driving engagement with the rack and the roller for revolving the roller upon rotation of the rack.

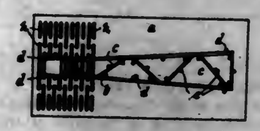


1,755,030. TRACK CONSTRUCTION. HERBERT P. SCHMECK, Philadelphia, Pa., assignor to Philadelphia Toboggan Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1927. Serial No. 172,886. 20 Claims. (Cl. 104—247.)



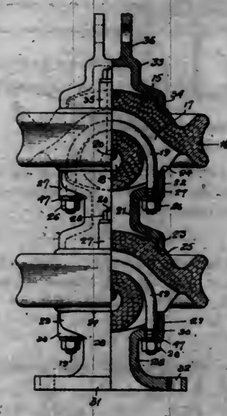
1. A track beam comprising a plank, and a plurality of relatively small elongated bars, certain of which are mounted on said plank in side-by-side relation and others mounted on said last-mentioned bars in superposed relation.

1,755,031. WELDING TABLE. HANS SCHMUCKLER, Berlin, Germany. Filed Nov. 10, 1928, Serial No. 318,512, and in Germany May 5, 1927. 3 Claims. (Cl. 113—99.)



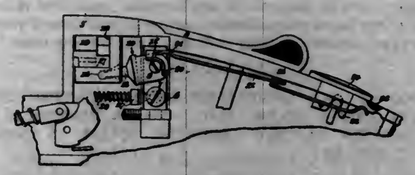
1. A welding table consisting of a flat surface having transversely spaced apart parallel slots and beyond the slots a plurality of apertures, and means for holding a plurality of bars in abutting engagement with each other, whereby said bars may be joined by welding to constitute a frame.

1,755,032. INSULATOR. HAROLD P. SLESSMAN, East Liverpool, Ohio, assignor to The R. Thomas & Sons Company, East Liverpool, Ohio, a Corporation of Ohio. Filed Jan. 7, 1925. Serial No. 1,032. 5 Claims. (Cl. 173—366.)



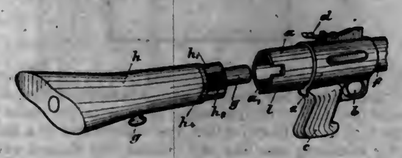
1. A post insulator comprising a pair of insulator units of the link type, a unitary tubular spacer extending therebetween, opposed U-links passing through the spaced insulator units, and means to engage the legs of the said links with the spacer and to unite the parts into a rigid whole.

1,755,033. BREAKDOWN GUN. LOUIS P. SMITH, Ithaca, N. Y. Filed Aug. 27, 1925. Serial No. 52,892. 1 Claim. (Cl. 42—44.)



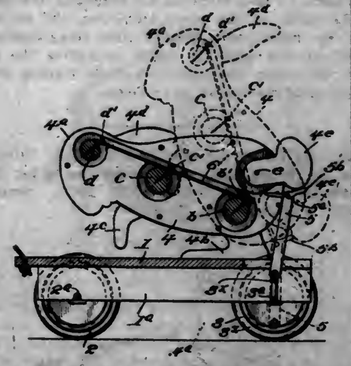
A break down gun provided with safety mechanism and having a barrel locking bolt rotatable on the longitudinal axis of the gun, a bolt operating post journaled on a vertical axis, a yoke pivotally mounted on said post and having a projecting arm universally jointed to the barrel locking bolt, the pivot pin of said yoke being elongated and operatively connected to the safety mechanism.

1,755,034. AUTOMATIC FIREARM. LOUIS STANGE, Sommerda, Germany, assignor to Rheinische Metallwaaren- und Maschinenfabrik, Dusseldorf-Derendorf, Germany. Filed June 18, 1929, Serial No. 371,881, and in Germany Nov. 15, 1928. 4 Claims. (Cl. 42—75.)



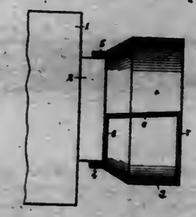
1. In an automatic firearm in combination, a longitudinally movable breech piece, a hollow stock guiding said breech piece, a casing, containing a trigger, a breech sleeve and a barrel, and means for releasably and removably connecting said stock to said casing.

1,755,035. WHEELED TOY. PETER STRONG, Winchendon, Mass. Filed Nov. 9, 1928. Serial No. 318,213. 3 Claims. (Cl. 46—45.)



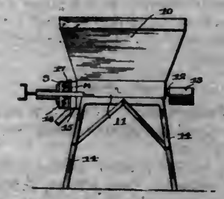
1. A toy comprising a wheeled platform and an animal figure thereon, said animal figure having rear legs rigidly connected to the platform, a hinge pin rigidly connected to the legs and pivotally supporting the body of the figure, the front legs of the figure having a pivot pin rigidly connected thereto and pivotally engaging the body, said figure having ears, a hinge pin rigidly connected to said ears and pivotally engaging the head of the figure, wheel operated means for swinging the body on the pivot of the rear legs, and a link having offset connections to the pivots of the rear and front legs and ears respectively.

1,755,036. CAMERA ATTACHMENT FOR MAKING ARTIFICIAL REFLECTIONS. JACOB H. SUSSMAN, Brooklyn, N. Y., assignor of one-half to Edward J. Herbert, New York, N. Y. Filed Mar. 28, 1928. Serial No. 265,421. 6 Claims. (Cl. 95—18.)



1. A camera attachment, comprising a hood adapted to be positioned on the end of the lens barrel of the camera, and a reflecting plate extending longitudinally within the hood and constituting the lower wall of the open upper portion of the hood.

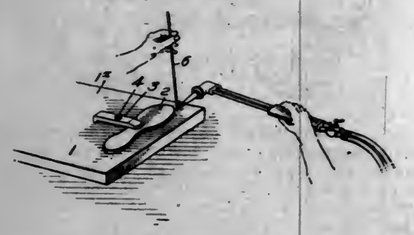
1,755,037. FEED GRINDER. TOM TAMEN, Lakota, Iowa. Filed July 23, 1928. Serial No. 294,842. 1 Claim. (Cl. 83—8.)



A grinding device comprising a pair of spaced discs having laterally projecting teeth in an interfitted relation,

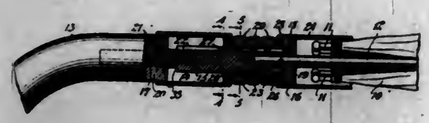
each disc being divided uniformly into sections, said teeth being arranged in concentric circles with the teeth in each circle being uniformly spaced, each section having an initial series of teeth on each section being arranged in a straight line transversely of the concentric rows, the succeeding teeth in the innermost concentric rows being disposed in staggered relation with the teeth succeeding the initial series in the outer concentric rows, the leading edge of each tooth being sheared off at an angle.

1,755,038. METHOD OF MAKING MOLDS. JOSEPH E. TITTON, Kenmore, Ohio, assignor to The Miller Rubber Co., Akron, Ohio. Filed May 12, 1928. Serial No. 277,351. 9 Claims. (Cl. 76—107.)



1. The herein described process of building up metal articles which consists in temporarily securing a suitable matrix to a metal base member, fusing and welding additional metal to build up a body of metal adjacent said matrix, and thereafter removing the matrix.

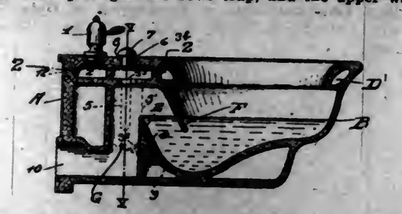
1,755,039. UMBRELLA GUARD. HAROLD M. VANDENHOVE, New York, N. Y. Filed Sept. 12, 1927. Serial No. 219,079. 2 Claims. (Cl. 135—44.)



1. The combination with the canopy, canopy staff, and handle of an umbrella, of a guide member rigidly connected between said handle and staff, a tubular member surrounding said guide member, coacting means on the guide member and the tubular member permitting sliding movement of the tubular member and preventing it from having turning movement, a series of tumblers each having a series of circumferentially arranged peripheral numbered facets, said tumblers arranged within the tubular member and surrounding said guide member, coacting portions on said tumblers, guide member and tubular member adapted to lock the tubular member against sliding movement out of engagement with said canopy to prevent it from being opened, said tumblers being manipulatable through openings in said tubular member to transpose portions of said tumblers to release said tubular member for sliding movement out of engagement with said canopy to permit the canopy to be opened.

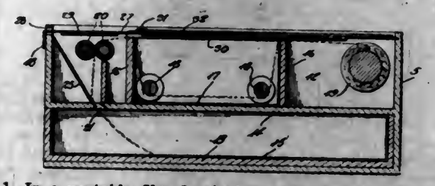
1,755,040. WATER-CLOSET. FRANK WALLACE, Freeport, N. Y. Filed Apr. 17, 1929. Serial No. 355,766. 17 Claims. (Cl. 4—73.)

4. In a water closet, a bowl having a flushing rim, a water receiving chamber in the bowl, lateral water passages in the bowl in communication with the chamber, a water jet in the bowl trap, ducts forming communication between the lower ends of the lateral water passages and jet, ducts forming communication between the lower ends of the water passages and bowl trap, and the upper wall



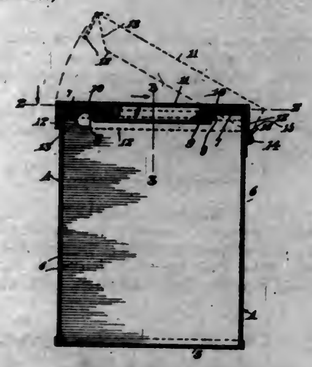
of the closet having a clean out opening in direct communication with the entrance to the soil pipe forwardly of the water receiving chamber.

1,755,041. FILM DEVELOPING AND PRINTING DEVICE. EUGENE WASYLENKO, Mount Carmel, Pa. Filed Nov. 4, 1927. Serial No. 231,075. 4 Claims. (Cl. 95—90.)



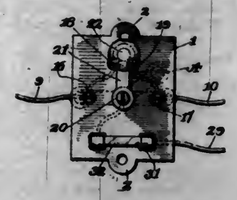
1. In a portable film developing and printing device, a casing having superposed compartments communicating at adjacent ends, a developing tank in the upper compartment midway the ends thereof, a frame slidably mounted in the walls of the upper compartment overlying the same, a hinged colored glass in the frame overlying the developing tank and film roll to be developed journalled in one end of the upper compartment, trailed through the developing tank and downwardly into the lower compartment.

1,755,042. TIN CONTAINER WITH FRICTION TOP AND HINGE COVER. EMIL J. ZOLLER, Brooklyn, N. Y. Filed Feb. 14, 1927. Serial No. 168,118. 2 Claims. (Cl. 220—29.)



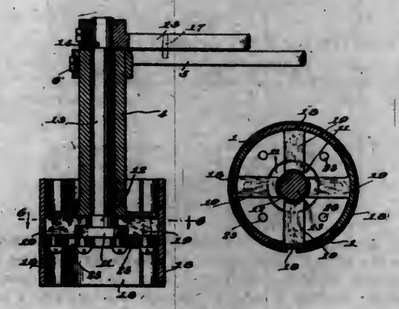
1. In a receptacle of that type including a body portion having a flanged top provided with a removable closure, the flanged portion of the top being secured to the outer face of the side of the body portion, the combination of a flanged lid for enclosing said top and closure, the flanged portion of said lid frictionally engaging with the outer face of and depending below the flanged portion of said top, a hinge member secured to the outer face of the side of said body portion below said flanged portions, and means for pivotally connecting the bottom of the flanged portion of said lid to the top of said hinge member.

1,755,043. COMBINED ANTENNA SELECTOR AND SAFETY SWITCH. STENGRIM ALSETH and VINCENT L. NEAL, Lewiston, Idaho; said Alseth assignor of one-fourth to Charles C. Miles, Clarkston, Wash., and one-eighth to Rudolph Strom, Oakland, Calif. Filed Oct. 22, 1928. Serial No. 314,192. 1 Claim. (Cl. 200—114.)



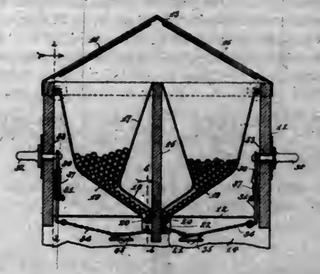
A combined antenna selector and safety switch comprising, a base, a pair of remotely spaced binding posts adapted for connection with angularly disposed antennæ, a pair of spaced, adjacent binding posts, means to provide circuits between the respective posts of one pair and the respective posts of the other pair, a contact for each post, a centrally disposed binding post spaced an equal distance from said pairs of binding posts, a terminal carried by the base and adapted for connection with a receiving set, means to provide a circuit between said terminal and the centrally disposed binding post, and a rotary switch arm pivoted on said centrally disposed binding post for selective engagement with each of the contacts of said remotely spaced binding posts and with the contacts of said adjacent binding posts concurrently for selectively completing a circuit between the receiving set and a selected antenna and between the receiving set and both of the antennæ, said means providing a circuit between the terminal and centrally disposed binding post including a fuse for protecting the receiving set when in active use, said switch arm being positionable out of connection with all of the contacts of said binding posts simultaneously to protect the fuse when the receiving set is inactive.

1,755,044. DEVICE FOR EXPANDING AND MOUNTING PISTON RINGS. KENNETH J. BAILEY, Great Falls, Mont. Filed Apr. 19, 1928. Serial No. 271,226. 12 Claims. (Cl. 29—86.4.)



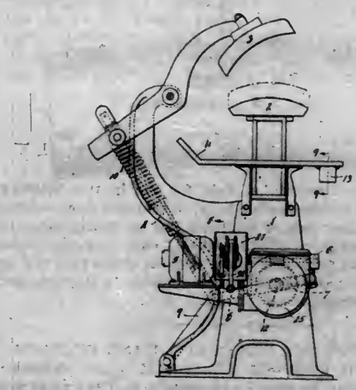
7. A piston ring expanding tool comprising an annular expansion head mounting an annular series of radially expansible segments, a base mounting said head having an upstanding shank and means carried by said shank for effecting uniform radial expansion of the segments of said head.

1,755,045. STRAW-SERVING MACHINE. SALVATOR BARKEY, New York, N. Y. Filed May 14, 1928. Serial No. 277,556. 5 Claims. (Cl. 312—67.)



1. In a serving machine for soda straws or analogous articles, a hopper in which the straws are stored, an inclined chute communicating with the bottom of the hopper for gravitationally feeding straws from the hopper to the point of service, said chute being only of sufficient size to accommodate a single row of straws resting one upon the other, and the lower wall of said chute being disposed in the same plane as one wall of the hopper adjacent said chute, the opposite hopper wall defining a sharp angle with the upper wall of the chute, a bottom plate under said chute, said bottom plate having a groove therein adapted to receive the lowermost straw of the stack, and a pusher engageable with one end of the lowermost straw and working in the groove to project said straw endwise through an opening in one wall of the container.

1,755,046. ELECTRICALLY-OPERATED PRESSING MACHINE. WILLIAM P. BEATTIE, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 13, 1926. Serial No. 128,983. 12 Claims. (Cl. 192—131.)



1. In a pressing machine, a base, a pair of relatively movable pressing members mounted thereon, means for effecting closing of one of said pressing members upon the other, pressure between said members, release of pressure, and return of said members to the original position thereof, said means comprising an electric motor, a rotary member adapted to be driven thereby, a linkage in operative connection between said rotary member and one of said pressing members whereby said cycle of press operations is effected each revolution of said rotary member, control means for said motor, comprising a control circuit for said motor, a portion of said circuit being divided to form two

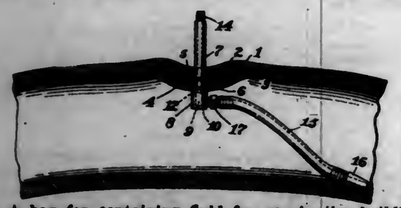
current paths, a pair of hand operated switches in said divided portion, said switches being spring urged to normally complete one of said current paths, adapted upon coincident hand operation to complete the other of said current paths, and widely spaced upon said machine, and a switch in said control circuit adapted to interrupt either of said current paths, and timed with said rotary member to alternate said interruptions dependent upon said press operations.

1,755,047. FISH LURE. CHESTER A. BRAIDWOOD, Perth Amboy, N. J. Filed Jan. 25, 1928. Serial No. 249,406. 4 Claims. (Cl. 43—42.)



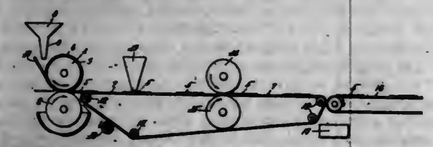
1. The combination with a fish lure, of a fish hook, and means connecting the hook with the lure for relative movement, said means extending through the lure and providing an eye at one side of the lure connected with the eye of the hook and having portions set in a recess in the opposite side of the lure to prevent said means from turning.

1,755,048. INFLATABLE BAG FOR USE IN TIRE BUILDING. ROY COTTON PRICE, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 19, 1928. Serial No. 313,605. 9 Claims. (Cl. 18—45.)



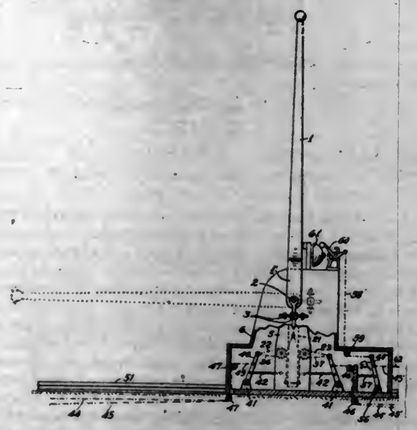
1. A bag for containing fluid for use in tire building, comprising a hollow flexible body, a paid of rubber vulcanized to the inner face of said body, an internally threaded ferrule located in an opening in said pad, clamping plates carried by said ferrule on opposite sides of the pad, and an inflating stem passing through an opening in the body and detachably engaging said ferrule.

1,755,049. PROCESS FOR COATING AND SURFACING PREPARED ROOFING. WALTER H. CADY, Beowawe, Nev., assignor, by mesne assignments, to The Patent and Licensing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1926. Serial No. 95,820. 2 Claims. (Cl. 91—68.)



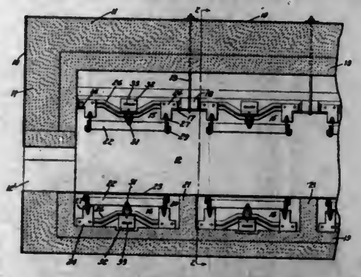
1. The process of treating individual shingle units cut from prepared roofing and having butt and adjacent side edges which includes the successive steps of coating all portions of the units uniformly with waterproofing bituminous material and applying granular surfacing material to the units in a continuous operation.

1,755,050. AUTOMATIC RAILROAD GATE. ENRIQUE CANUT and JOSE M. LOYDI, Sagua la Grande, Cuba. Filed Jan. 12, 1929, Serial No. 332,168, and in Cuba Nov. 19, 1928. 5 Claims. (Cl. 246—293.)



1. In an automatic railroad gate, a rotatable shaft, a gate secured to said shaft, a pair of elements serving as counterweights for said gate rotatably mounted upon said shaft, one of said elements being concentrically mounted and the other being eccentrically mounted, means for reversing the positions of said elements to cause operation of said gate, means for restoring the original position of said elements to place the gate in inoperative position and means operated by a train for setting said operating means and said restoring means in operation.

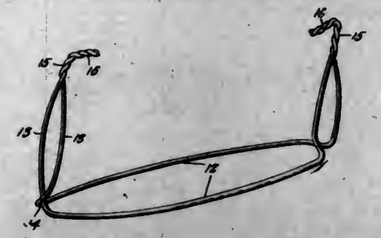
1,755,051. ELECTRIC FURNACE. ROBERT M. CHERRY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 1, 1928 Serial No. 258,334. 13 Claims. (Cl. 266—1.5.)



11. A heating unit for electric furnaces comprising a plurality of refractory members, means for securing said refractory members together, a plurality of hook members pivotally secured to said refractory members and a heating resistor secured to said hook members.

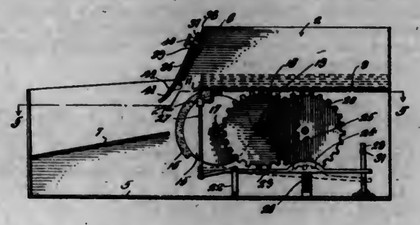
1,755,052. BROOM PROTECTOR. JOHN S. CHESTER, Royal Oak, Mich. Filed Apr. 10, 1929. Serial No 354,029. 1 Claim. (Cl. 15—169.)

A broom bridle comprising a pair of substantially U-shaped resilient frames arranged to provide elongated outwardly bowed spaced side members adapted to be positioned upon opposite sides of a broom, crossed oppositely and outwardly curved end members extending from the



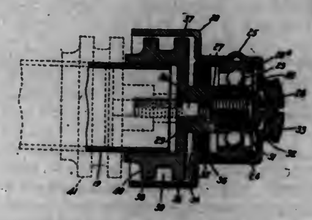
side members, and inwardly extending twisted extremities at the upper ends of the end members to secure the latter together and provide penetrating elements.

1,755,053. POST CARD AND ENVELOPE COUNTER. CLARENCE G. CORNING, Wild Rose, Wis. Filed Jan. 21, 1928. Serial No. 248,401. 11 Claims. (Cl. 93—93.)



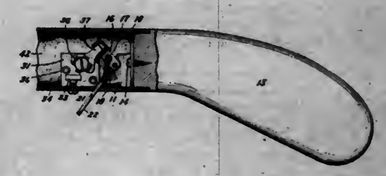
1. A card and envelope counter of the character described, comprising means for supporting a stack of articles to be mounted, means for removing single articles from a stack on said supporting means, a panel arranged transversely of and forwardly of said supporting means, a pair of superposed finger members secured to said panel and projecting beyond the lower edge thereof, one of said finger members having its lower end arranged in a plane a sufficient distance above said stack supporting means to permit a single article to pass therebeneath, and the other finger members extending a substantial distance beneath the first mentioned finger member and curving forwardly and acting to guide an article downwardly as it moves from said supporting means.

1,755,054. VACUUM-CLEANER-BRUSH BEARING. JAMES M. DARST, East Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Jan. 3, 1928. Serial No. 244,071. 1 Claim. (Cl. 308—187.)



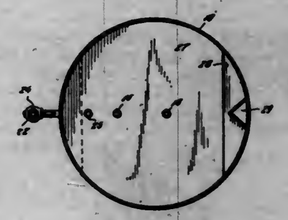
In a bearing structure for vacuum cleaner brushes and the like, the combination with a rotary member, of an end bearing structure therefor comprising a head mounted on the end of said member, an axially extending stud carried by the head, said stud having a shouldered end, a ball bearing having an outer race and an inner race, in which inner race the shouldered end of the stud is seated, means carried by the stud for engaging the inner race to hold the stud in said seated position, said means being releasable to permit the stud to be withdrawn from the bearing, a cylindrical cup-shaped housing having at one end an enlarged portion which surrounds the head with a close running clearance, said head being provided with an annular groove which forms a labyrinth packing with the enlarged portion of the housing, at the opposite end of said housing enclosing the bearing, and a removable closure means for said opposite end of the casing, said closure means being axially in line with the holding means and adjacent the bearing, whereby by removing said closure means, said holding means may be removed and the bearing and outer member of the packing removed as a unit from the stud.

1,755,055. SNAP SWITCH. FRANK C. DE REAMER, Bridgeport, Conn., assignor to General Electric Company, a Corporation of New York. Filed Feb. 1, 1928. Serial No. 251,167. 16 Claims. (Cl. 200—67.)



16. A snap switch comprising a thin, flat frame member, a fixed contact supported thereby, a movable contact, an element which carries the movable contact and straddles the frame member, an actuator pivoted on the frame member for moving the element and through which the frame member extends, said element straddling the actuator, a pivot for the element which is carried by the actuator and forms its sole support, said actuator and element forming a toggle, and a coil spring connected at one end to the element and at the other end to the actuator, which spring when it crosses the dead center moves the element with a snap action to open or close the circuit and which also completes the movements of the actuator.

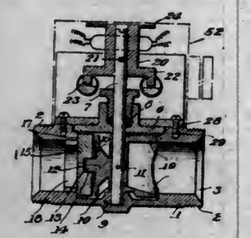
1,755,056. MOTOR-MOISTENING DEVICE. WALTER E. DE WEESE, Cleveland, Ohio. Filed Aug. 26, 1927. Serial No. 215,668. 1 Claim. (Cl. 62—1.)



In an air moistener for internal combustion engines, a tank adapted to contain a supply of water, a water inlet for the tank, a water outlet for said tank, a vertically disposed cross sectionally V-shaped partition formed of expansible material and located within the tank, said partition together with the walls of the tank defining an expansion chamber, said chamber being closed at opposite ends, and a vent pipe extending from said chamber to the atmosphere.

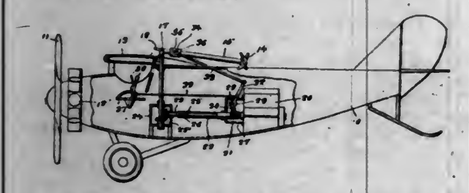
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1,755,057. ELECTRIC VALVE. JOHN J. FAGAN, Bayonne, N. J., and LOUIS KOVACS, Brooklyn, N. Y. Filed Sept. 22, 1928. Serial No. 307,572. 7 Claims. (Cl. 137—139.)



1. A device of the class described comprising a valve casing, a rotary valve therein, a member connected with the valve stem and having a pair of projections thereon, two pairs of solenoids associated with the valve casing, a core passing through each pair and having a notch therein for receiving a projection, a circuit including one solenoid of each pair, a second circuit including the other solenoid of each pair, means for controlling each circuit from a distant point and a circuit breaker for controlling both circuits arranged on the member which is connected with the valve stem.

1,755,058. SUSTAINING AND STABILIZING ATTACHMENT FOR AIRPLANES. HARRY P. FINLEY, Little Rock, Ark., assignor of one-half to Telas Coleman, Little Rock, Ark. Filed May 8, 1929. Serial No. 361,436. 2 Claims. (Cl. 244—15.)



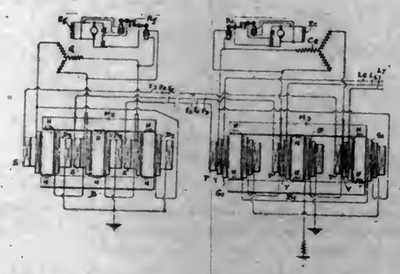
1. In combination with an airplane, a traction propeller, a lifting propeller, a separate source of power for the lifting propeller, means including a sectional shaft to operatively connect the lifting propeller with its source of power, said shaft comprising a fixed section and an axially movable section, coupling means for said sections, means to move the lifting propeller to an active position, and means operated by the lifting propeller moving means to move the movable section of said shaft axially and couple the same to the fixed section.

1,755,059. WINDSHIELD WIPER. EDWARD J. GALLAGHER, Jr., Baltimore, Md. Filed Feb. 21, 1929. Serial No. 341,733. 7 Claims. (Cl. 15—255.)



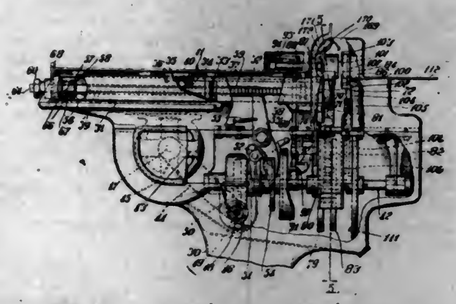
1. A wiper device of the class described comprising a housing having a chamber with an open side, the open side being arranged adjacent the transparent member to be wiped, a wiper strip carried by the housing and arranged in and projecting from the opening in the chamber and dividing the chamber into two parts, means for supplying heated air to the chamber and means for moving the device over a surface to be cleaned.

1,755,060. AUTOMATIC VOLTAGE-REGULATING MEANS. FRAZER W. GAY, Newark, N. J., assignor to General Electric Company, a Corporation of New York. Filed May 6 1927. Serial No. 189,241. 6 Claims. (Cl. 171—119.)



1. In combination, a transformer having a magnetic core arranged to be saturated substantially above the knee of its saturation curve at its normal operating voltage, an inducing winding on said core, an induced winding on said core, a tertiary winding on said core, and a synchronous condenser connected to said tertiary winding for neutralizing the magnetizing current of said transformer at its normal operating voltage.

1,755,061. CUTTING AND WRAPPING MACHINE. EDWARD C. HEGG, Buffalo, N. Y., assignor to Mojonnier Bros. Co., a Corporation of Illinois. Original application filed May 10, 1927, Serial No. 190,359. Divided and this application filed Feb. 23, 1928. Serial No. 256,231. 14 Claims. (Cl. 107—21.)



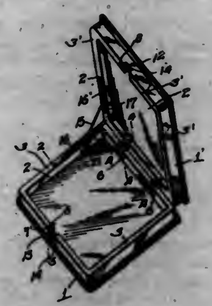
1. A machine of the character described, comprising a feed table adapted to support a block of material, cutting means for severing said block into sections, and means for moving said block step by step on said table toward said cutting means comprising a follower adapted to engage the rear side of said block, longitudinally reciprocating feed bar provided on different parts of its periphery with longitudinal rows of differently spaced teeth, a pawl movably mounted on said follower and adapted to engage the teeth in any one of said rows, a longitudinal guide for said follower, a rock lever, a link connecting said lever and said bar, a cam engaging said lever and operating to move the feed bar forwardly to the same point, a spring connected with said lever and adapted to move the feed bar backwardly, a sleeve capable of turning with said bar but held against longitudinal movement therewith, a stop mounted on said bar and movable lengthwise therewith, and a plurality of differently spaced stops arranged in an annular row on said sleeve about the axis thereof and each adapted to be engaged by the stop on said bar for arresting the backward movement of the same at a different point.

1,755,062. COMBINED TABLE AND AMUSEMENT GAME. FRANK HERNES and RICHARD WINKLER, Chicago, Ill. Filed Jan. 9, 1928. Serial No. 245,472. 1 Claim. (Cl. 45—81.)



In an article of the class described, a body having a central hollowed open portion to provide an area for a game structure, supporting legs for said body, a sectional top for the body and for covering the hollowed portion, and means providing slidable connection between the sections of the top and the body to permit the sections to be moved from covering position with respect to the hollowed portion to suspended position at opposite corresponding sides of the body, and means for releasably latching the sections in said covering position, said means including yieldably held latch members carried by the sections, keeper plates carried by the opposite corresponding edges of the body, and finger buttons carried by the latch members for moving the latch members from engagement with the keeper plates.

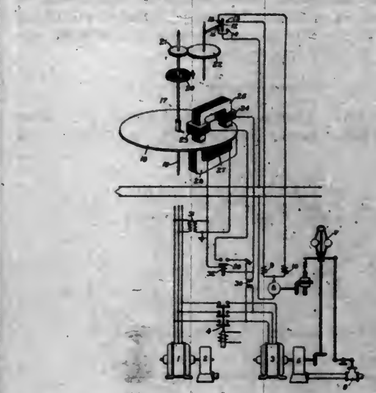
1,755,063. JEWEL CASE. JOSEPH B. HOLDEN, Canastota, N. Y., assignor to Diemoulding Production Company, Incorporated, Canastota, N. Y., a Corporation of New York. Filed Jan. 3, 1928. Serial No. 244,297. 6 Claims. (Cl. 206—1.)



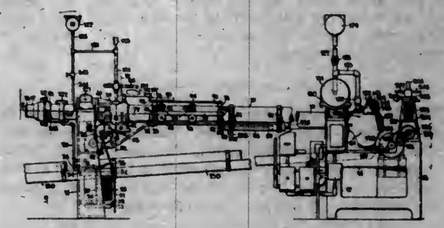
1. In a jewel case having opposed sections hinged together along one side to open and close, a spring link interposed between said sections and having one end attached to one section and its other end provided with an extension slidable along and upon the other section as the sections are opened and tensioned to open said sections, and means cooperating with said link for limiting its sliding movement in the direction of said opening movement.

1,755,064. SYNCHRONIZING DEVICE. LUKE F. KENNEDY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 11, 1926. Serial No. 80,433. 9 Claims. (Cl. 290—4.)

2. The combination of a plurality of alternating current circuits, means for producing substantial equality between the frequencies of said circuits including a motor element comprising a field coil connected to one of said circuits and a second field coil arranged to be connected to the other of said circuits, means operable to vary the connections between said second mentioned field winding and said other circuit in accordance with the phase relation between the voltages of said circuits, and means controlled by said element for changing the frequency of one of said circuits.

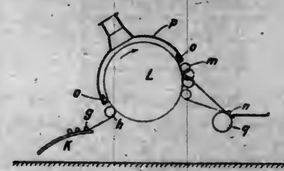


1,755,065. TUBE-STRIPPING MACHINE. HERMAN T. KRAFT, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 13, 1927. Serial No. 183,427. 31 Claims. (Cl. 154—9.)



1. An apparatus for supporting an elongate member having a vulcanizable article molded thereto, a hollow member provided with vacuum producing means, means for positively engaging the article against the hollow member, and means operatively associated with the hollow member and with the vacuum producing means for placing the latter into communication with the hollow member.

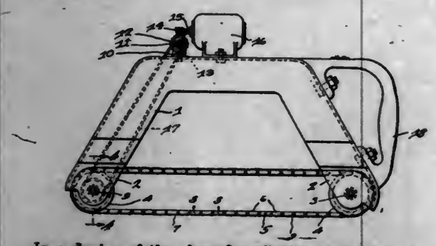
1,755,066. DEVICE FOR DRYING CELLULOSE FILMS. HANS KRULL, Scholwin, near Stettin, and HEINRICH DETHLOFF, Maxau, Germany, assignors to the Firm of Feldmühle Papier- und Zellstoffwerke Aktiengesellschaft, Scholwin, near Stettin, Germany. Filed June 26, 1928, Serial No. 288,444, and in Germany May 12, 1927. 1 Claim. (Cl. 34—48.)



A device for drying cellulose films, including an interiorly heated drying cylinder of a relatively large diameter, said cylinder provided for a considerable portion of its circumference with heat radiation preventing means, a

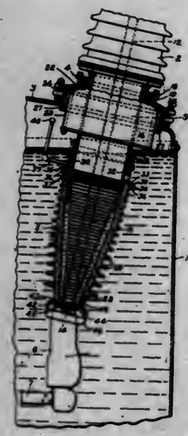
stationary pressing-on roller for transferring the film to the drying cylinder and a taking-off roller for the dried film, said last mentioned roller adjustable peripherally of the cylinder so as to permit variation of the length of the drying path of the film in contact with the cylinder outside of said radiation preventing means.

1,755,067. SAW. ARTHUR KUHNNE, Chicago, Ill. Filed Mar. 8, 1928. Serial No. 260,233. 1 Claim. (Cl. 143—82.)



In a device of the class described and in combination, a substantially U-shaped frame, hollow in cross section, and having reduced end portions, shafts in the reduced end portions, pulleys on said shafts, a sectional bandsaw passing around said pulleys, a second pulley on one of the shafts, spaced brackets on the intermediate portion of the frame, a shaft supported by said brackets, a worm gear on the latter shaft, a pulley on the last shaft, a belt connecting the last pulley with the second pulley on one of the first shafts, a motor adjacent the brackets, a worm on the drive shaft of the motor engaging the worm gear for imparting movement to the saw blade, and a handle member secured to one side of the frame whereby to manipulate said frame.

1,755,068. HIGH-VOLTAGE STRUCTURE. HOWARD G. MACDONALD, Murrysville, and JESSE E. MATHER and GORDON A. BURR, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1927. Serial No. 221,439. 16 Claims. (Cl. 173—318.)

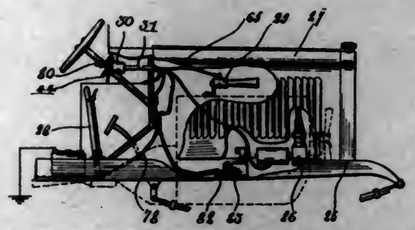


2. In a high-voltage structure, the combination with a main receptacle for a fluid, an electrical device therein and a condenser terminal bushing for said device extending through a wall of the receptacle with an inner portion below the level of said fluid, of means for surrounding only said inner bushing portion by another fluid body and maintaining said fluid bodies separate comprising an insulating well member supported directly on the bushing.

1,755,069. PROCESS OF PROTECTING THE INTERIOR SURFACES OF AIRBAGS FROM DETERIORATION IN SERVICE. GERALD D. MALLORY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 18, 1927. Serial No. 234,296. 8 Claims. (Cl. 18—50.)

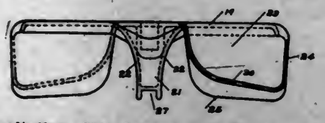
1. A method of preserving airbags which comprises injecting therein a solution of glycerine containing an inert pigment and an oil which wets the pigment.

1,755,070. SWITCH MECHANISM. CAMILLE MAUBOURGNE, Montreal, Quebec, Canada. Filed Oct. 8, 1928. Serial No. 311,183. 4 Claims. (Cl. 180—82.)



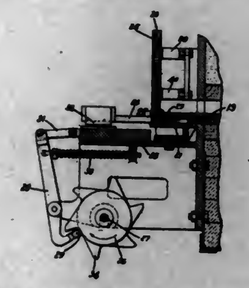
1. A switch mechanism for motor vehicles having a warning signal, an emergency brake and an ignition system, comprising a switch plate carrying terminals electrically connected with a battery, a signal, an emergency brake, and the vehicle ignition system; and locking means associated with said switch plate operable to lock the circuits so that the ignition circuit is disconnected and an audible signal actuated, said signal being stopped only upon applying the emergency brake and attempted operative movement of the switch or brake will operate the signal.

1,755,071. AGITATING DISK FOR WASHING MACHINES. HARRY L. OGG, Newton, Iowa, assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa, a Corporation of Delaware. Filed Apr. 3, 1926. Serial No. 99,441. 5 Claims. (Cl. 259—101.)



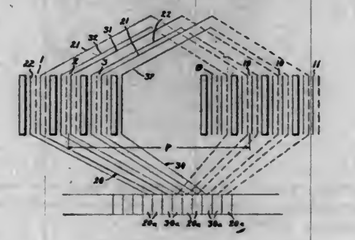
1. An agitating disk having radially extending ribs upon its lower face, each rib having downwardly converging side walls, and a bottom portion comprising spaced rubbing edges and a perforated web therebetween.

1,755,072. FURNACE. ALBERT N. OTIS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 8, 1927. Serial No. 211,272. 7 Claims. (Cl. 214—18.)



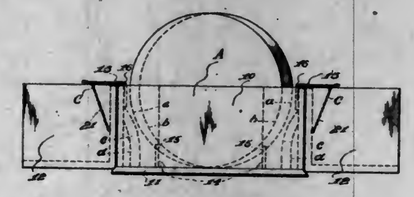
1. A conveying mechanism for moving small articles through a heating chamber provided with inlet and outlet openings comprising a member provided with a channel extending between said openings, a second member adjacent said inlet opening provided with a channel aligned with said first channel, said second channel having a slot in its bottom, means for feeding the articles to be heated into said second channel, a member mounted for reciprocatory motion within said slot so as to project into said second channel and means for reciprocating said member whereby said articles are moved along said channels through said heating chamber.

1,755,073. DYNAMO-ELECTRIC MACHINE. JOSEPH M. PESTARINI, St. Ouen, France, assignor to General Electric Company, a Corporation of New York. Filed Aug. 18, 1927, Serial No. 213,922, and in France Dec. 16, 1926. 5 Claims. (Cl. 171—206.)



1. A dynamo-electric machine comprising an armature having straight slots extending entirely across the face thereof, a commutator, and two independent windings connected to separate commutator segments, each of said windings comprising long pitch coils and short pitch coils arranged in said straight slots, each of said coils being connected to said commutator.

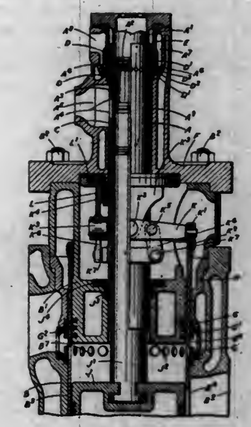
1,755,074. FILING CABINET FOR PHONOGRAPH RECORDS. CHARLES T. RAY and DONALD MCDONALD, Jr., Louisville, Ky., assignors to B. F. Avery & Sons, Louisville, Ky., a Corporation of Kentucky. Filed May 11, 1927. Serial No. 190,442. 4 Claims. (Cl. 312—10.)



1. A filing cabinet for phonograph records comprising a case, removable and reversible means within the case having slots on its opposite sides, of which slots those on one side of the means are formed to receive records of a different size from those on the other side of said means.

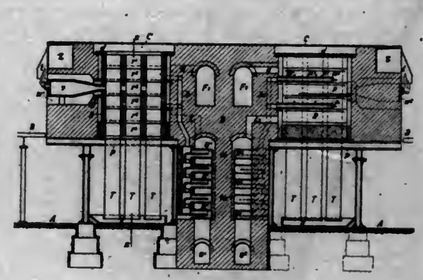
1,755,075. COMPRESSOR FOR AIR OR GAS. HARRY RALPH RICARDO, London, England. Filed Feb. 25, 1928, Serial No. 256,912, and in Great Britain Mar. 3, 1927. 14 Claims. (Cl. 230—179.)

1. A sleeve valve compressor for gas including in combination, a cylinder having an annular delivery port, a sleeve valve within the cylinder having a ring of delivery ports adapted to register with the annular delivery port during the delivery period, a piston reciprocating within the sleeve valve, mechanism for imparting motion to the sleeve valve, a sealing ring mounted in a recess in the cylinder and engaging the exterior of the sleeve, this ring



being so disposed as to constitute the lower edge of the annular delivery port, and means for preventing axial movement of the ring relatively to the cylinder.

1,755,076. FURNACE FOR TREATING ZINC ORES AND OTHER ZINCIFEROUS MATERIAL. ALEXANDER ROITZHEIM and WILHELM REMY, Berlin-Oberschoneweide, Germany. Filed Apr. 23, 1926, Serial No. 104,147, and in Germany Nov. 13, 1925. 9 Claims. (Cl. 263—38.)

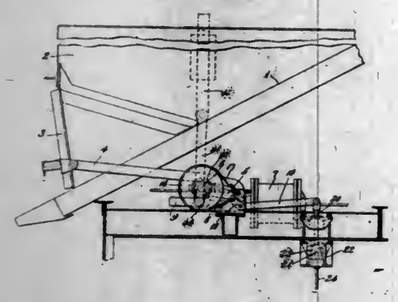


1. A zinc reduction furnace comprising an enclosing masonry structure, a multiplicity of spaced, vertical, refractory muffles arranged in said furnace, the muffles being supported independently of each other and of said masonry structure, a roof for the furnace formed by plates carried by the muffles, means for supplying heating gases to the flue spaces between the muffles, and means for supplying additional air to said flue spaces.

1,755,077. DOOR-LOCKING MECHANISM FOR COKE-QUENCHING CARS. EUGENE WILLIAM SCHELLENTRAGER, Cleveland, Ohio, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 31, 1924. Serial No. 717,148. 7 Claims. (Cl. 105—286.)

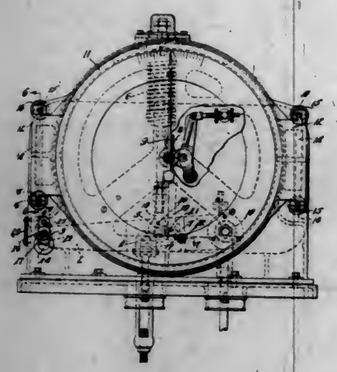
4. The combination with a dump car provided with a body, a door therefor, and operating means for said door, of means for maintaining said door in closed position,

means for supplying fluid pressure thereto to release said maintaining means, and means for retarding the escape of said fluid pressure from said maintaining means,



whereby said door is always closed by said operating means prior to the application of said maintaining means to maintain the door in closed position.

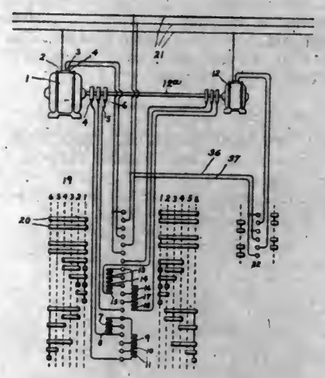
1,755,078. WEIGHING INDICATOR. EUGENE W. SCHELLENTRAGER, Cleveland Heights, Ohio, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 20, 1926. Serial No. 96,213. 11 Claims. (Cl. 265—68.)



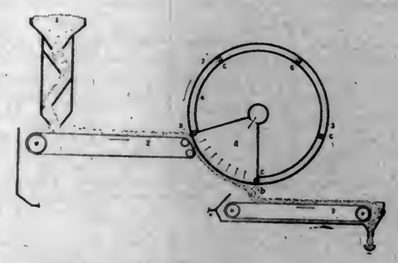
1. In an article of the class described, a pivot bearing located between opposed walls, and inwardly extending projections upon said walls and spaced from said bearing for positioning a member pivoting upon said bearing.

1,755,079. ELECTRIC-MOTOR CONTROL FOR REVERSING OPERATIONS. CARL SCHIEBELER, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 30, 1928, Serial No. 250,444, and in Germany Feb. 25, 1927. 6 Claims. (Cl. 172—274.)

1. The combination with an alternating current driving motor, of a controller movable to accelerate said motor, an auxiliary motor connected to said driving motor, control means for said auxiliary motor, and an operating connection between said controller and said control means whereby said auxiliary motor is energized to apply a braking torque to said driving motor when the controller for said driving motor is moved from a running position back toward starting position.



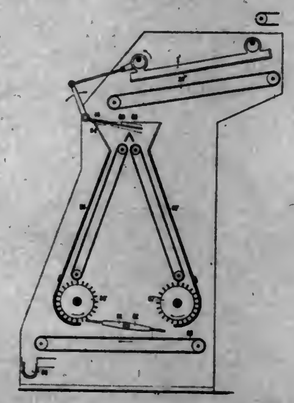
1,755,080. MEANS FOR SPREADING CUT TOBACCO IN CIGARETTE-MAKING MACHINES. HEINRICH SCHÜNEMANN, Spandau, Germany, assignor to Messrs. Neuerburg'sche Verwaltungsgesellschaft m. b. H., Gereonhaus, Cologne, Germany, a Corporation of Germany. Filed Nov. 23, 1927, Serial No. 235,311, and in Germany Sept. 10, 1925. 2 Claims. (Cl. 131—39.)



1. A means for conveying cut tobacco and depositing the tobacco so conveyed in a uniform layer on a travelling conveyor from a tobacco feeding means comprising a rotating hollow suction cylinder having spaced perforations and a fixed and hollow cylinder within said first cylinder provided with a sector-shaped suction opening in its outer periphery.

1,755,081. MEANS FOR LOOSENING AND SPREADING CUT TOBACCO. HEINRICH SCHÜNEMANN, Spandau, Germany, assignor to Messrs. Neuerburg'sche Verwaltungsgesellschaft m. b. H., Gereonshaus, Cologne, Germany, a Corporation of Germany. Filed Nov. 23, 1927, Serial No. 235,312, and in Germany Jan. 29, 1926. 2 Claims. (Cl. 131—39.)

1. Means for loosening and distributing cut tobacco comprising an oscillating grid subdivided into several different grid sections, means for feeding the tobacco to the first grid section, means for diverting the longer fibres of tobacco from the first grid section to the second grid section, slides arranged below the respective grid sections,



pin rollers arranged below each of the slides, the pins of which are adapted to the length of the fibres of the sifted tobacco so that in one unit of time equal quantities of tobacco are drawn from the slides and led to the rod forming belt.

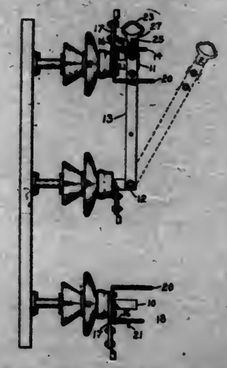
1,755,082. WATER HEATER. WILLIAM J. SIMS, Iver, England, assignor to General Electric Company, New York, N. Y. Filed Mar. 8, 1928, Serial No. 260,171, and in Great Britain Mar. 11, 1927. 3 Claims. (Cl. 126—350.)



1. In a liquid heater, a liquid container provided with a normally open vent at the top, an inlet conduit entering said container at the bottom thereof and extending to a point above the normal liquid level, an outlet conduit passing through the bottom of said container and means cooperating with said inlet conduit for passing the inflowing liquid to the lower part of said container.

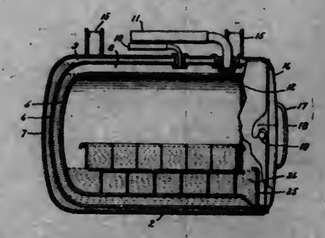
1,755,083. ELECTRIC SWITCH. ARTHUR SPLITTBERGER, Baltimore, Md., assignor to General Electric Company, a Corporation of New York. Filed Feb. 10, 1928. Serial No. 253,435. 3 Claims. (Cl. 200—169.)

1. In an electric switch of the class described, a stationary contact, a pivoted switch blade arranged in circuit closing position to engage said contact, a latch pivotally mounted near the side of the contact away from the blade pivot for movement transversely of the blade and biased to a position to hold the blade in the circuit closing position, a lug on said latch on the side thereof away from the contact projecting from the latch substantially perpendicular to the plane of movement thereof, an operating member pivoted on the free end of the blade ar-



ranged to have a limited movement relative thereto, and a lug on said operating member projecting transversely of the blade and in the path of movement of the lug on the latch and arranged on movement of the operating member in a direction to open the switch to engage the lug on the latch and thereby to move the latch from the blade holding position whereby the blade is free to be moved to the circuit opening position on further movement of the operating member in the switch opening direction.

1,755,084. REFRIGERATING MACHINE. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 13, 1926, Serial No. 148,266. Renewed May 2, 1929. 10 Claims. (Cl. 62—95.)



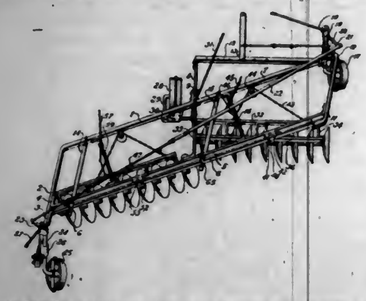
1. In combination with a refrigerator cabinet, a cooling unit therein comprising an inner chamber for receiving articles to be frozen, an outer closed chamber surrounding the inner chamber and adapted to contain a liquid, an intermediate evaporator chamber adapted to contain a refrigerant, and means for circulating the refrigerant through said evaporator chamber.

6. In combination with a refrigerator cabinet, a cooling unit therein comprising a receptacle adapted to support an ice tray, said receptacle being provided with means for retaining a freezing liquid whereby said tray when in position is in good thermal connection with the evaporator.

1,755,085. AGRICULTURAL IMPLEMENT. WILLIAM H. STOVER, Colwich, Kans. Filed Dec. 1, 1926. Serial No. 151,896. 2 Claims. (Cl. 53—73.)

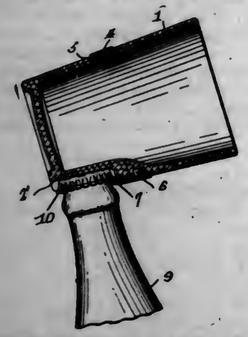
1. A combined plow, discer and packer comprising a rigid frame, supplemental frames independently pivoted to the first named frame, at least one of the supplemental

frames being mounted so as to rock vertically, separate sets of concave discs carried by the supplemental frames, all the discs facing in the same direction, and means for



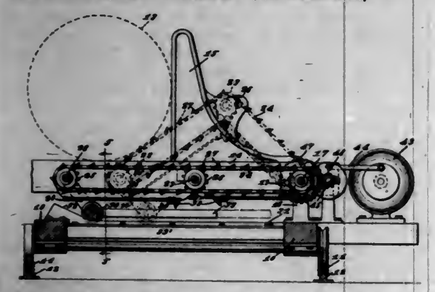
independently swinging the supplemental frames in horizontal planes so that one set of discs may be at one angle while the other set of discs are at a different angle.

1,755,086. COMBINATION TUMBLER AND BOTTLE OPENER. CHARLES ERNEST TAPP, Barachois, Quebec, Canada, assignor of two-thirds to Paul Guertin & Cie., Quebec, Canada. Filed Dec. 6, 1928, Serial No. 324,269, and in Canada Oct. 22, 1928. 1 Claim. (Cl. 65—46.)



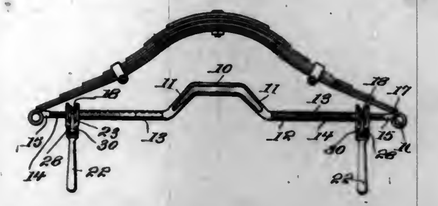
A combination tumbler and bottle cap remover comprising a tumbler having a recess in its outer wall and a channel extending peripherically above said recess, said wall being thickened at the top of said recess, a band disposed in the channel, means extended from the band and into a portion of the tumbler wall for preventing displacement of the band, and a cap engaging claw projecting from said band and into the recess.

1,755,087. LOG TURNER FOR SAWMILLS. ISAAC V. TRULLINGER, Mulino, Oreg. Filed July 10, 1929. Serial No. 377,199. 4 Claims. (Cl. 143—102.)



1. In a log canting gear, a sectional arm, means pivotally connecting adjacent ends of said sections, means to pivotally mount one end of the arm, means operatively connected with the other end of said arm to move the end of said arm pivotally upward or to move the arm sections relatively, a log engaging element movable along the arm, and means to move said element.

1,755,088. SPRING JACK. BENJAMIN D. VICKREY, Kosse, Tex. Filed Jan. 25, 1929. Serial No. 335,129. 2 Claims. (Cl. 29—87.1.)



1. A jack construction for leaf springs comprising a frame, reduced extensions carried thereby, tubular extensions receiving the reduced extensions, extensible elements adjustably mounted within the outer ends of the tubular extensions, and adjusting elements mounted upon the extensible elements and abutting the adjacent ends of the tubular extensions to spread the sleeve extremities of the leaf springs apart to facilitate registration and insertion of shackle bolts therefor.

1,755,089. CHIMNEY HOPPER FOR INCINERATORS. ROBERT T. WYSE, Pittsburgh, Pa. Filed Sept. 14, 1927. Serial No. 219,444. 10 Claims. (Cl. 193—34.)

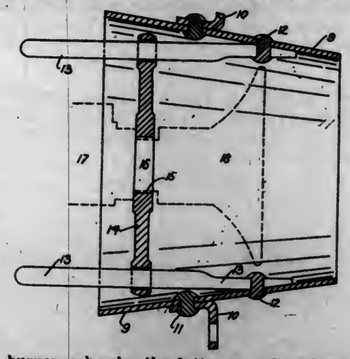


1. The combination with a flue, of a hopper having relatively movable members for automatically positively closing the passage into the flue when the hopper is in its full open and closed positions, and means for moving one of said members relatively to the other for catapulting the hopper contents into the flue.

1,755,090. SUPPORTING MEANS FOR LIQUID-FUEL BURNERS. JOSEPH WILLIAM HORACE AINSCOW, Lindfield, near Sydney, New South Wales, Australia. Original application filed Oct. 5, 1926, Serial No. 139,658, and in Australia Nov. 5, 1925. Divided and this application filed Nov. 10, 1927. Serial No. 232,438. 2 Claims. (Cl. 158—2.)

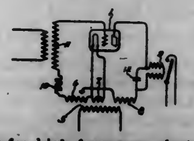
2. A device for adjustably supporting a liquid fuel burner in a furnace mouth and regulating the indrawing of air to the furnace comprising a frusto-conical flame concentrator and in-draught guard adapted to be affixed in the furnace mouth, with its larger end portion extending out of the latter, arms mounted within said flame concentrator

and in-draught guard and projecting outwardly and parallel to the axis thereof, and a spider slidably mounted upon said arms and adapted to engage the forward end



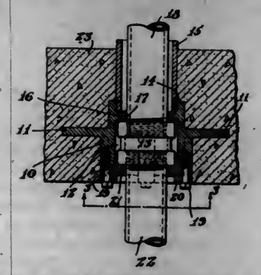
of the burner, whereby the latter may be adjusted with respect to said flame concentrator and in-draught guard and said furnace mouth.

1,755,091. HIGH-FREQUENCY RECEIVING SYSTEM. HUGH E. ALLEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 29, 1929. Serial No. 351,093. 4 Claims. (Cl. 250—27.)



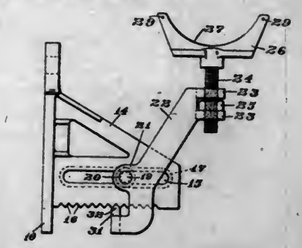
1. In a receiver for high frequency electric impulses employing an electron discharge device having an anode, a cathode and a grid, a source of alternating current, connections from a neutral point on said source to said cathode and from opposite points on said source to said grid and to said anode such that voltages on said grid and on said anode are in opposed phase relation, means for impressing high frequency impulses on said grid, means in said grid connection for correcting for displacement in phase relation between said grid and anode voltages resulting from said last means and current responsive means associated with said anode.

1,755,092. COMBINED ANCHOR AND PIPE SLEEVE. SAUL C. APPEL, Medford, Mass. Filed Dec. 18, 1928. Serial No. 326,858. 2 Claims. (Cl. 126—317.)



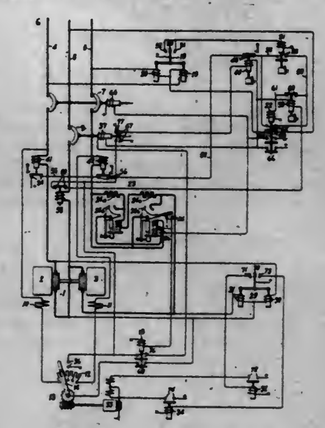
1. In a device of the kind described, the combination of a cylindrical member, laterally extending anchoring plates formed integral therewith, a section of pipe secured to one end of said cylindrical member, a chamber formed in said cylindrical member, a closure for said chamber and alined passages in the cylindrical member and chamber permitting passage of a pipe therethrough.

1,755,093. RADIATOR BRACKET. SAUL C. APPEL, Medford, Mass. Filed Jan. 24, 1929. Serial No. 334,615. 3 Claims. (Cl. 248—17.)



1. In a device of the kind described, the combination of a base, a bracket member formed integrally therewith and extending laterally outward therefrom, said bracket member being provided with an elongated slot extending perpendicularly to the plane of the base, a plurality of parallelly arranged serrations formed in said bracket member and lying parallel to the slot, a supporting arm, means for associating said arm with the bracket, adjustable radiator supporting means mounted on the upper end of said arm, and means carried by the supporting arm and engaging with said serrations in the bracket to maintain the bracket in adjusted position.

1,755,094. AUTOMATIC SWITCHING ARRANGEMENT. HERMAN BANY and HARRY E. LOCKETT, Yeadon, Pa., assignors to General Electric Company, a Corporation of New York. Filed May 10, 1929. Serial No. 362,082. 17 Claims. (Cl. 171—118.)

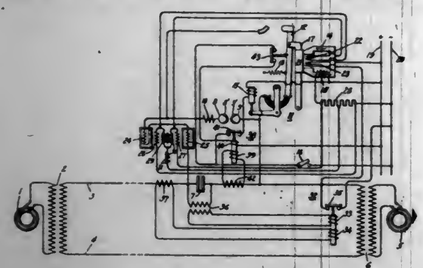


17. In combination, a three wire direct current circuit, a balancer set, means for connecting the main terminals of said set to the main conductors of said circuit, means controlled by said connecting means for regulating the excitation of said set to equalize the voltages between the neutral of said set and the main terminals thereof, and means responsive to the equalization of said voltages for effecting the connection of the neutral of said set to the neutral of said system.

1,755,095. SYSTEM OF PROTECTION AND CONTROL FOR ELECTRICAL APPARATUS. THOMAS A. E. BELT, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 9, 1927, Serial No. 174,051. Renewed Mar. 3, 1930. 10 Claims. (Cl. 175—294.)

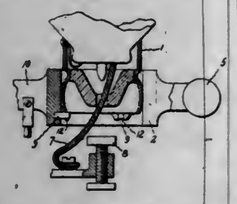
1. In combination, an electric circuit, an electric condenser connected in circuit therewith, protective apparatus

for preventing breakdown of said condenser including a discharge device having spaced electrodes set for a critical



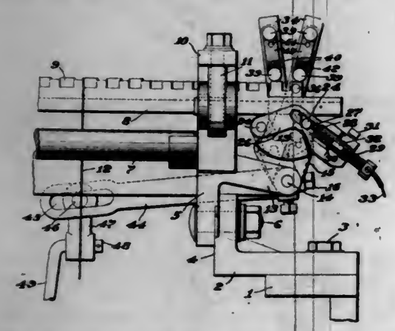
voltage, and a switch connected across said spaced electrodes and operative to short-circuit said spaced electrodes upon a discharge therebetween.

1,755,096. MOUNTING FOR INCANDESCENT LAMPS. JAN BERGMANS and ULBE NICOLAAS DE WIT, Eindhoven, Netherlands, assignors to General Electric Company, a Corporation of New York. Filed Apr. 9, 1927, Serial No. 182,471, and in the Netherlands May 22, 1926. 6 Claims. (Cl. 176—32.)



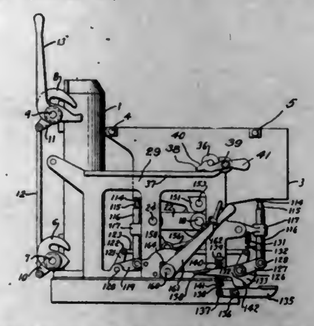
1. In a mounting for incandescent lamps, the combination of a tubular holder with a base support having asymmetrically mounted members projecting inwardly into the bore of said holder, and a lamp base to be placed in said holder having a spherical portion which fits loosely into the bore of said holder and asymmetrical portions to fit said members.

1,755,097. WARP STOP MECHANISM FOR LOOMS. CARL D. BROWN, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Original application filed Feb. 14, 1928, Serial No. 254,201. Divided and this application filed Mar. 14, 1929. Serial No. 347,067. 10 Claims. (Cl. 139—365.)



1. In a warp stop mechanism for looms, the combination of a series of drop wires, a transversely movable detecting bar, a detecting bar actuator, means for connecting the bar actuator and the detecting bar, a lock which operates automatically as said connecting means is moved into connecting position to prevent accidental disengagement between said connecting means and the transversely movable detecting bar, and means for effecting loom stoppage when the detecting bar is arrested by a drop wire.

1,755,098. MACHINE FOR CASTING STEREOTYPE PRINTING PLATES. MARTIN W. BRUESHABER, Chicago, Ill. Filed Oct. 30, 1926. Serial No. 145,361. 26 Claims. (Cl. 22—2.)

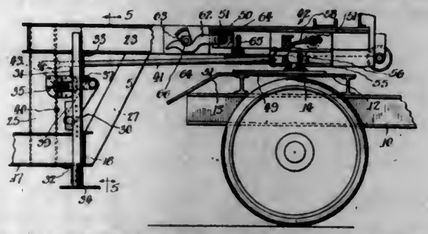


1. A machine for casting stereotype plates including in combination cooperating casting members including a drag having a recessable back behind the matrix and means for moving the recessable back to and from casting position.

1,755,099. POLYMERIZATION OF KETONE-FORMALDEHYDE CONDENSATION PRODUCTS. CHARLES E. BURKE, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 6, 1928. Serial No. 283,457. 8 Claims. (Cl. 106—22.)

1. Process which comprises polymerizing a ketone formaldehyde condensation product in the presence of an organic amine.

1,755,100. TRAILER VEHICLE. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor to Warner Mfg. Co., South Beloit, Ill., a Corporation of Michigan. Filed Dec. 26, 1925. Serial No. 77,725. 7 Claims. (Cl. 280—33.1.)

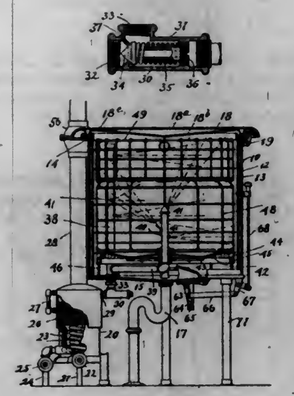


4. A semi-trailer having, in combination, a body frame, wheels supporting the rear end of said frame, a slidable supporting leg, and means to move said leg comprising a pair of toggle links arranged to be flexed through their alined position as said leg moves from inactive to active position, and means for limiting the flexing of said toggle at a fixed point beyond said alined position.

1,755,101. DISHWASHER. MILLS G. CLARK, East Cleveland, and WILLIAM G. FORDING, Lakewood, Ohio. Filed Dec. 16, 1921. Serial No. 522,794. 7 Claims. (Cl. 141—9.)

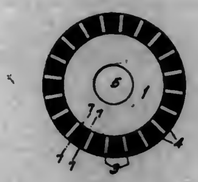
1. In a dish washer, a casing, a source of steam, rotary means within the casing for carrying articles to be washed,

means within the casing adapted to be supplied with steam from said source for projecting jets of steam on the articles and for causing the rotation of said rotary means, means for conducting a small flow of steam to the casing



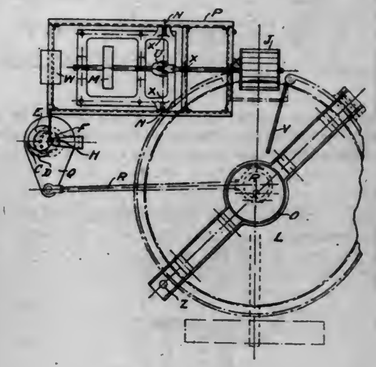
for preheating the dishes, and means controlled by the difference in pressure existing between said source and said casing for affording a passage for the free flow of steam to the casing when said difference in pressure reaches a predetermined amount.

1,755,102. GEAR. HIRAM D. CROFT, Springfield, Mass., assignor to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed June 9, 1927. Serial No. 197,738. 2 Claims. (Cl. 74—41.)



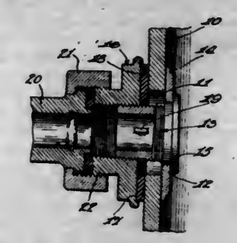
1. As an improved article of manufacture, a gear comprising a body and side teeth, each of said teeth being so constructed that its pitch line on which the action takes place (as line 7—7) is at right-angles to the axis of the gear, the tooth throughout said line is approximately equal in width, and the tooth on the addendum side of said line gradually becomes less in height as the outer end of the tooth is approached, and on the dedendum side increases in depth.

1,755,103. APPARATUS FOR DELIVERING REGULAR QUANTITIES OF GRANULAR OR PULVERIZED MATERIAL. FREDERICK WILLIAM DAVIS, Kingston-upon-Hull, England, assignor to F. L. Smidth and Company, Limited, London, England. Filed July 31, 1928, Serial No. 296,618, and in Great Britain Aug. 5, 1927. 12 Claims. (Cl. 221—18.)



1. Means for delivering material comprising a rotating table adapted to receive the material, means for regulating the supply, a rotating drum adapted to receive the said material and pivotally mounted so as to act as a scale pan and means whereby the pivotal movements of the said drum control the supply of the said material.

1,755,104. COUPLING. EDWARD DEIERLEIN, Port Chester, N. Y. Filed Oct. 3, 1927. Serial No. 223,773. 1 Claim. (Cl. 285—50.)

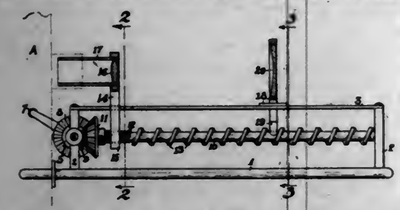


In combination with a closed tank having an opening in the wall thereof, a nipple externally threaded at one end and having a flange at its opposite end for insertion in the tank through said opening, a clamping nut threadedly connected to said nipple externally of said tank, said nut having a recessed face, a gasket fitting between said face and the outer surface of the tank, said nut being externally threaded to receive a union for connecting a pipe with said nipple, and an elongated anchor plate having an aperture therein to accommodate said nipple and retain its flange within the tank when said clamping nut is screwed home, the diameter of said opening being greater than the transverse dimension of said anchor plate to admit the latter to said tank, and the longitudinal dimension of said plate being greater than the diameter of said opening.

1,755,105. CAMERA ATTACHMENT. LEON F. DOUGLASS, Menlo Park, Calif. Filed Mar. 13, 1928. Serial No. 261,249. 8 Claims. (Cl. 88—16.)

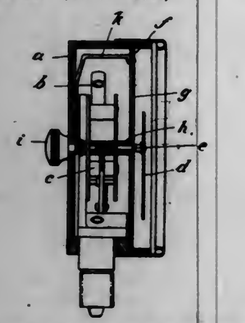
1. In a device of the class described, the combination with a camera having its lens adjustably mounted for

focusing, of a concave lens positioned in front of the camera lens, and means cooperating with the camera lens and



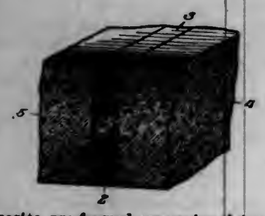
the concave lens for moving said lenses toward or away from each other in the ratio required to maintain a scene to be photographed always in focus.

1,755,106. METER FOR COMPRESSED GAS. EMIL PAUL BONIFAZIUS ECKARDT, Stuttgart, Germany. Filed Apr. 18, 1925, Serial No. 24,154, and in Germany June 3, 1924. 4 Claims. (Cl. 73—109.)



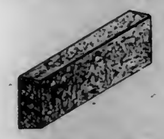
4. An apparatus for measuring the volume of gas taken from a receptacle containing the said gas under pressure, comprising a pressure gage provided with a casing, a pressure indicating member, a dial plate provided with scale marks cooperating with said member and representing pressure, a second dial plate provided with scale marks of even pitch cooperating with said member, guiding means provided on said pressure gage on which said dial plate is movable in the direction of the movement of said member, a handle connected with said second dial plate and located outside said casing, said scale marks of said second dial plate representing volumes of gas reduced to atmospheric pressure delivered from said receptacle and ascending in a direction from maximum pressure of the gage to zero pressure thereof.

1,755,107. PREFORMED EXPANSION JOINT. ALBERT C. FISCHER, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed Mar. 25, 1925. Serial No. 18,380. 5 Claims. (Cl. 94—18.)



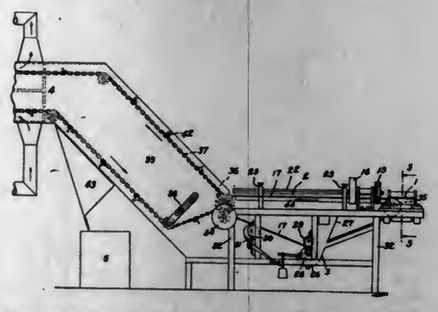
3. A composite pre-formed expansion joint adapted for insertion between the adjacent sections of a pavement and consisting of a bituminous base portion and a crown portion of rubbery material of contrasting color.

1,755,108. PREFORMED RAIL FILLER. ALBERT C. FISCHER, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a Corporation of Ohio. Filed June 30, 1927. Serial No. 202,581. 6 Claims. (Cl. 238—9.)



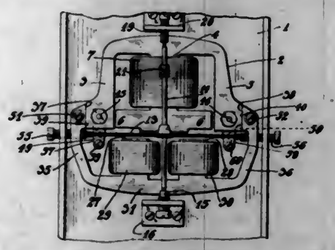
2. A preformed rail filler adapted as an expansion, sound deadening and insulating material, comprising a waterproof binder, linear fibres and earthly material, said fibres being interlaced to reenforce the binder.

1,755,109. MACHINE FOR MAKING DENTAL ROLLS. CAROLUS FORTIER, Outremont, Quebec, Canada. Filed Nov. 9, 1928. Serial No. 318,802. 4 Claims. (Cl. 154—29.)



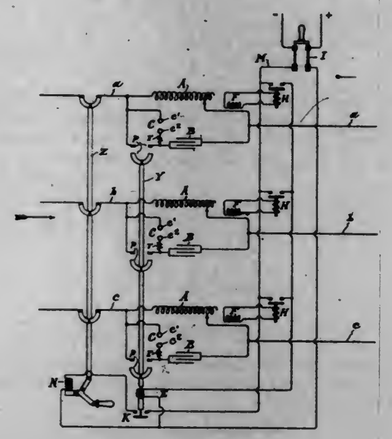
2. A machine of the character described, comprising means for feeding and separating a continuous layer of material into suitable layers of equal lengths, a stationary platform, a belt travelling below said stationary platform, carrying said layers of material whereby when said layers engage between said belt and said stationary platform, the said layers will be rolled, means for depositing a suitable substance on said belt whereby said layers will be impregnated therewith, and means to brush said belt, substantially as described.

1,755,110. INDUCTION METER. HANS FRÖHLICH and RICCARD PUDELKO, Zug, Switzerland, assignors to Landis & Gyr A.-G., a Joint Stock Company of Switzerland. Filed July 19, 1928, Serial No. 293,940, and in Switzerland Sept. 24, 1927. 10 Claims. (Cl. 171—264.)



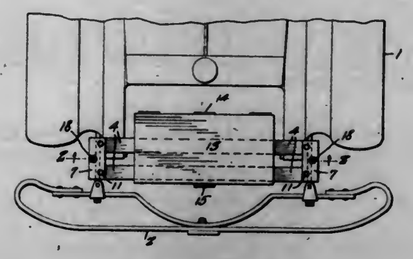
10. An induction meter including in combination a driven meter member, a voltage coil and core, a separate and distinct current coil and core, a ferro-magnetic connecting member connecting said cores and means for variably positioning said cores while maintaining the connection between said cores.

1,755,111. CURRENT-LIMITING MEANS. FRAZER W. GAY, Newark, N. J., assignor to General Electric Company, a Corporation of New York. Filed Mar. 23, 1927, Serial No. 177,816. Renewed Sept. 16, 1929. 12 Claims. (Cl. 175—294.)



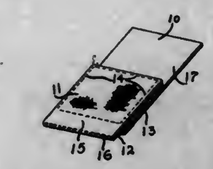
1. In combination with an electric circuit, an inductive reactance and a condensive reactance, and means operative in accordance with the current in said circuit for placing said inductive reactance and said condensive reactance in parallel relation in said circuit upon the occurrence of current above a predetermined value therein.

1,755,112. TOOL CARRIER. MAURICE GILMORE, Abbotsford, British Columbia, Canada. Filed Oct. 12, 1928. Serial No. 312,146. 1 Claim. (Cl. 224—29.)



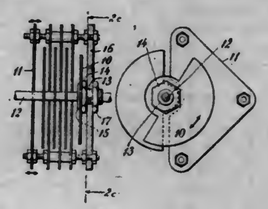
A tool carrier for the purpose set forth designed to rest on and to be removably secured to the bumper brackets at the front of an automobile, comprising spaced plates, a short plate secured to each of the spaced plates at one end thereof, a second short plate secured to each of the spaced plates at the other end thereof, hook bolts adjustably secured to the short plates and having their hook portions engaging with the bumper brackets, said spaced plates each having a downwardly directed central substantially U-shaped portion and a box or cabinet received in and fixed to said U-shaped portions.

1,755,113. SANITARY MANICURING TOWEL. LOUISE GROM, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,703. 6 Claims. (Cl. 132—73.)



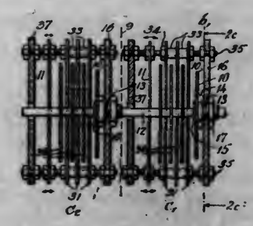
1. A manicure towel, one portion thereof being formed of absorbent paper, another portion thereof being formed of gauze material, a portion of said gauze material being united with said absorbent paper, a flap of gauze strip, said flap being an extension of the first mentioned gauze material.

1,755,114. UNICONTROL SIGNALING SYSTEM. LOUIS A. HAZELTINE, Hoboken, N. J., assignor to Hazeltine Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Apr. 3, 1925. Serial No. 20,484. 31 Claims. (Cl. 250—40.)



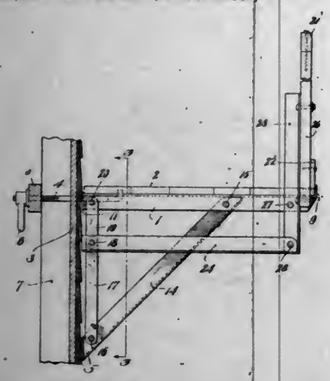
1. In a wave signaling system, the combination of an inductance coil, a variable condenser connected thereto, said coil and condenser together comprising a tuned circuit, and two independent adjusting means for said condenser, the adjustment of one of which determines the maximum resonant frequency of said circuit, and the adjustment of the other of which determines the rate of change of resonant frequency of said circuit.

1,755,115. VARIABLE CONDENSER. LOUIS ALAN HAZELTINE, Hoboken, N. J., assignor to Hazeltine Corporation, a Corporation of Delaware. Original application filed Apr. 3, 1925, Serial No. 20,484, and in Great Britain, Australia, and New Zealand Apr. 3, 1925. Divided and this application filed Oct. 7, 1927. Serial No. 224,543. 9 Claims. (Cl. 175—41.5.)



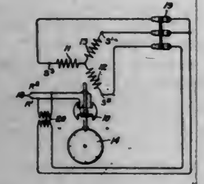
1. In combination with a condenser whose capacity is variable by physical displacement of an electrode thereof, a first means for adjusting the capacity value at a first point of displacement of said electrode, and a second means for adjusting the capacity value at a second point of displacement of said electrode without substantially affecting the adjustment of capacity value at said first point.

1,755,116. FOLDING STAGING BRACKET. ALONZO P. HENDERSON, Hanover, Mass. Filed Apr. 7, 1928. Serial No. 268,184. 2 Claims. (Cl. 304—33.)



1. A folding wall bracket comprising a plurality of members arranged in a triangle of which two sides are rigid and the third jointed intermediate its length and in combination therewith, a hand-rail, and a hand-rail-supporting member which is pivotally combined with one of said members and connected by an additional member to the joint in said third side.

1,755,117. METHOD OF CALIBRATING INSTRUMENTS. LEE E. HILDEBRAND, Marblehead, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 3, 1928. Serial No. 267,124. 5 Claims. (Cl. 177—337.)



1. The method of calibrating an instrument for the transmission of angular motion provided with a field winding and a polycircuit armature winding in inductive relation with said field winding, one of said windings being rotatably mounted and connected to drive indicating means, which consists in impressing an electromotive force on said field winding and at the same time on said armature winding so as to cause said rotor to be turned by electromagnetic repulsion to a predetermined zero position, and then setting said indicating means in a predetermined position by adjusting it independently of said rotatable winding.

1,755,118. FUR STRETCHER. ONEY HOLLYWOOD, Hyattville, Wyo. Filed Apr. 13, 1929. Serial No. 354,878. 2 Claims. (Cl. 149—21.)

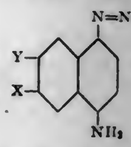
1. A pelt stretcher comprising a pair of members, each having a tapered end, means for pivotally connecting together said ends, a shaft arranged between the members, means for causing longitudinal movement of the shaft when the same is turned, an arm pivoted to each member intermediate the ends of the member, a plate loosely arranged on the shaft and to which the other ends of the arms are pivoted, means whereby the plate will follow the longitudinal movement of the shaft so that the arms will operate to move the members toward or away from each other, means for attaching a pelt to the members, means for holding the members in adjusted position, such means comprising a cross bar and the free ends of the members



having slots therein through which the ends of the cross bar pass and means for adjustably connecting the cross bar with said members.

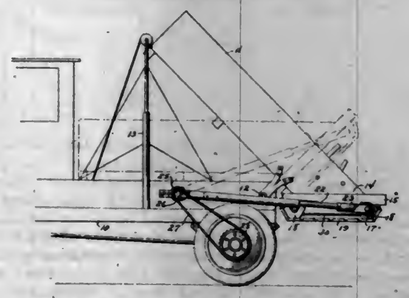
1,755,119. PROCESS FOR DYEING REGENERATED CELLULOSE MATERIALS. HENRY JORDAN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 11, 1928. Serial No. 305,330. 5 Claims. (Cl. 8—5.)

1. The process of coloring regenerated cellulose materials which compriges applying thereto a dye of the formula:



R_1 being an aromatic radical, not containing a free hydroxyl- or amino group, R_2 being 2-amino-5-naphthol-7-sulphonic acid or an N-substituted derivative thereof, X being a sulpho group or hydrogen, and Y being hydrogen or a sulpho group, there being not more than one sulpho group in the nucleus.

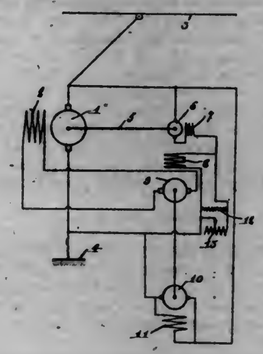
1,755,120. STONE DISTRIBUTOR. CORNELIUS W. KERR, Georgetown, Ky. Filed Apr. 16, 1928. Serial No. 270,545. 1 Claim. (Cl. 275—2.)



A stone distributor adapted for use in conjunction with dump truck bodies comprising a conveyor having one side

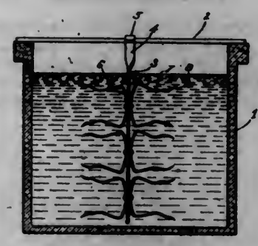
thereof disposed at an inclination within the discharge end of the body in its normal position, a driving connection between the drive wheels of the vehicle and said conveyor, end gates for the conveyor and body slidably mounted between the side portions of the body, operating shafts having connection with the end gates, and adjusting means carried upon the outer side of the body adapted for connection with said shafts to raise and lower the end gates whereby the discharge of the truck may be regulated and leveled upon the conveyor and distributed in a layer upon the roadway while the vehicle is in motion.

1,755,121. MOTOR-CONTROL SYSTEM. MARIUS LATOUR, San Sebastian, Spain. Filed May 19, 1928, Serial No. 279,168, and in France May 20, 1927. 8 Claims. (Cl. 171—225.)



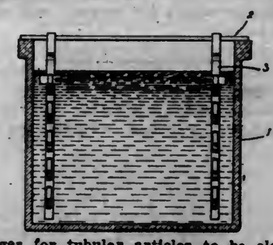
1. A motor control system comprising a main drive motor having an armature and a field winding, an exciting device for exciting the field of the motor, and an auxiliary series motor mechanically connected to the main motor and electrically connected with the main motor armature for keeping the main motor excitation at a predetermined constant relative to the speed of the main motor.

1,755,122. HANGER FOR ARTICLES TO BE PLATED. LOUIS LICHTMAN, New York, N. Y., assignor to Chromeplate, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1928. Serial No. 322,220. 3 Claims. (Cl. 204—5.)



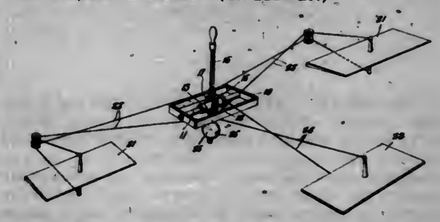
1. In a hanger for frame-like and hollow articles to be electro-plated, a support adapted to be suspended in a plating tank, and having in connection therewith a plurality of article engaging elements, each substantially U-shaped having the body thereof secured to the support, and the arms resilient and extending laterally from the support, and adapted to engage the inner surface of the article to support the same in substantially horizontal position, and to be pressed closely against said inner surface to insure electrical connection.

1,755,123. HANGER FOR ARTICLES TO BE PLATED. LOUIS LICHTMAN, New York, N. Y., assignor to Chromeplate, Inc., New York, N. Y., a Corporation of New Jersey. Filed Nov. 27, 1928. Serial No. 322,221. 4 Claims. (Cl. 204—5.)



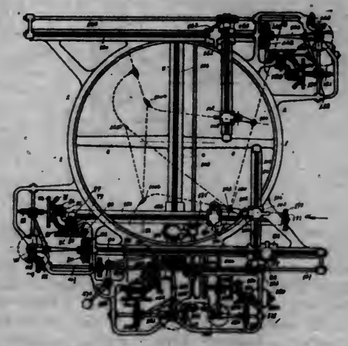
1. A hanger for tubular articles to be electro-plated, for engaging the interior of the article to leave the exterior fully exposed, including rods for engaging within the ends of the article, hangers, and interengaging means in connection with the hangers and the rods for resiliently clamping the rods to the hangers.

1,755,124. AIRPLANE CONTROL STICK. OTTO H. MADORIN, Marshall, Mo. Filed May 22, 1929. Serial No. 365,135. 2 Claims. (Cl. 244—29.)



1. In a control stick for airplanes, a shaft disposed transversely of the airplane, a sleeve mounted for rocking movement upon the shaft, a control stick, an offset portion provided in said stick, a substantially U-shaped strap having its opposite ends secured to the stick at the ends of the offset portion and cooperating with the latter to provide a frame for the passage of the sleeve, means to pivotally secure the stick frame to diametrically opposite sides of the sleeve and means to connect the stick with the ailerons and elevator of the airplane.

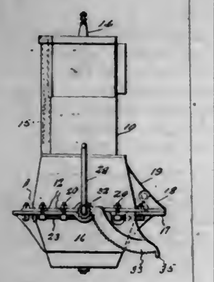
1,755,125. METHOD AND APPARATUS FOR DIRECTING TORPEDOES. LOUIS MARMONIER, Lyon, France. Filed Sept. 22, 1927, Serial No. 221,354, and in France Sept. 24, 1926. 6 Claims. (Cl. 114—21.)



1. An apparatus for directing torpedoes comprising, in combination, a chart table, a sheet of transparent mate-

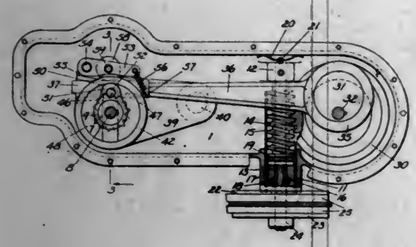
rial on said chart table, means adapted to reproduce the course of the target on said chart, means adapted to reproduce the course of the torpedo boat on said chart, means adapted to reproduce the course of the torpedo on said chart, a control board associated with said chart and electro-mechanical means for directing said torpedo from said control board.

1,755,126. ENGINE-MOUNTING MEANS. WESLEY C. MARTIN, Donnelsville, Ohio. Filed Aug. 12, 1927. Serial No. 212,572. 3 Claims. (Cl. 180—64.)



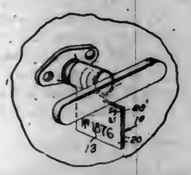
1. The combination with an engine structure and a rack element rigidly carried thereby, of supporting means, means pivotally mounting the engine with reference to the supporting means, said rack being movable in an arc-shaped path about the pivotal mounting and continuously supporting the engine from the base thereof during lifting movement, a starting crank for the engine, and a pinion rotated by the crank and meshing with the rack element.

1,755,127. VARIABLE DRIVING MECHANISM. JULIAN L. PERKINS, West Springfield, and HIRAM D. CROFT, Springfield, Mass., assignors to Perkins Machine and Gear Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Oct. 27, 1928. Serial No. 315,527. 10 Claims. (Cl. 74—14.)



1. The combination, in variable driving mechanism, with a shaft provided with a crank, and a reciprocating rack, of a control arm mounted for adjustment on a plane at right-angles to said shaft, a pinion mounted on said arm in engagement with said rack, a block carried by said pinion in the oscillatory movement of the latter, but also in sliding relation radially thereof, a pivot connecting said block with said crank, and locking and releasing means for said arm.

1,755,128. COMBINATION CHECK AND TAG. CHARLES S. PETERS, Cuyahoga Falls, Ohio. Filed Apr. 13, 1929. Serial No. 354,816. 3 Claims. (Cl. 40—2.)



1. A combination check and tag adapted for use in connection with parked automobiles, comprising a tag element and a check element having a longitudinal line of perforation connecting them so that they may be readily separated, said elements having identification numbers, the tag element having a cut out portion at its longitudinal edge providing an intermediate contracted portion between the ends of the tag element, the tag element being adapted to be folded transversely upon the intermediate contracted portion about the shank of the automobile door handle with the ends disposed upon one side of the handle, and means securing said ends together whereby the intermediate contracted portion will be torn in removing the tag element.

1,755,129. METHOD OF MAKING COMPOSITE PHOTOGRAPHS. ROY J. POMEROY, Los Angeles, Calif., assignor of one-half to Famous Players-Lasky Corporation, Los Angeles, Calif., a Corporation of New York. Filed July 14, 1926. Serial No. 122,502. 2 Claims. (Cl. 95—5.)



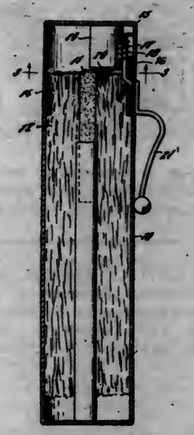
1. The herein described method of producing composite photographs, that includes first exposing a limited portion of a fresh actinic surface to obtain thereon a first image, developing said first image, bleaching and intensifying the developed image, redeveloping said image, exposing other portions of the surface, developing the whole surface with a developer that will not further develop the products of intensification, and finally fixing.

1,755,130. METHOD OF MAKING COMPOSITE PHOTOGRAPHS. ROY J. POMEROY, Los Angeles, Calif., assignor of one-half to Famous Players-Lasky Corporation, Los Angeles, Calif., a Corporation of New York. Filed July 14, 1926. Serial No. 122,503. 5 Claims. (Cl. 95—5.)



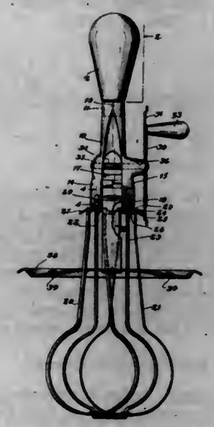
1. The herein described method of producing composite photographs, that includes first exposing a limited portion of a fresh actinic surface to obtain thereon a first image, developing said first image, coating the surface with casein carrying a non-actinic pigment, treating the surface to transform the developed silver and to harden locally the casein, removing the remaining soft portions of the casein, re-exposing the surface to obtain an image on the previously unexposed parts, and finally developing and fixing the surface and removing the hardened casein.

1,755,131. CIGARETTE LIGHTER. JOHN REAL, Sterling, Ill. Filed Aug. 25, 1927, Serial No. 215,457. Renewed Sept. 6, 1929. 1 Claim. (Cl. 67—7.1.)



A cigarette lighter comprising a body portion, a wick arranged therein, a needle projecting above the wick centrally of said body, a cap including a lower section threaded on the upper end of said body, a pivot rod rising from the said lower section and positioned within the upper section of the cap, a bearing carried by the upper section and receiving said rod, whereby the upper section is both slidably and pivotally supported on said rod, said upper section normally receiving the adjacent end of the lower section and adapted to be lifted therefrom for pivotal movement, a coil spring surrounding said rod to maintain the movable section normally in alignment with the fixed lower section, pockets arranged within the upper section at opposite sides of the pivot, and flint material arranged in each pocket and adapted to engage the needle to create a spark when the upper section of the cap is swung upon its pivot in either direction.

1,755,132. EGG BEATER OR THE LIKE. ALBERT W. ROUND, Torrington, Conn., assignor to The Turner & Seymour Manufacturing Co., Torrington, Conn., a Corporation of Connecticut. Filed Dec. 2, 1927. Serial No. 237,153. 10 Claims. (Cl. 259—131.)



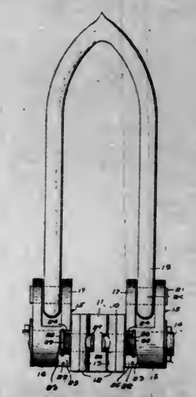
1. A beater or the like device comprising a frame member having an aperture therethrough, a pair of complementary hook members fitted within said aperture and extending in opposite directions from the frame member to provide supporting arms, a pair of complementary receptacle cover members secured respectively to said supporting arms, and quick-detachable interengaging means on said cover portions.

1,755,133. COVER FOR ANNULAR OBJECTS. WILLIAM WALLACE ROWE, Cincinnati, Ohio, assignor to The Paper Service Company, Lockland, Ohio, a Corporation of Ohio. Filed Mar. 28, 1928. Serial No. 265,445. 5 Claims. (Cl. 150—54.)



2. A detachable spare tire cover comprising a disc of relatively stiff material adapted to receive an advertising device, a longitudinally corrugated tube of creped paper having one edge secured to said disc and resilient means normally restricting the corrugations of the other edge in unexpanded condition.

1,755,134. SUCKER-ROD ELEVATOR. GREGORY H. SAWYER, Independence, Kans. Filed Mar. 15, 1928. Serial No. 261,917. 10 Claims. (Cl. 294—91.)



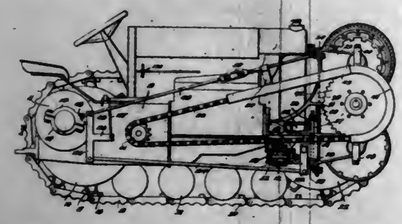
1. A sucker rod elevator comprising, a body portion having a recess to receive the sucker rod, latch elements carried by the body portion and adapted to be projected into the recess, supporting actuating members pivoted upon the body portion and having cam faces to engage with the latch elements to project them, a support connected with the supporting actuating members, and means to lock the supporting actuating members to the body portion against turning movement, said means including spring pressed bolts carried by the actuating members.

1,755,135. LARD PRODUCT AND METHOD OF MAKING THE SAME. JOHN R. SHIPNER, Omaha, Nebr., assignor to The Cudahy Packing Company, Omaha, Nebr., a Corporation of Maine. Filed June 1, 1929. Serial No. 367,887. 4 Claims. (Cl. 99—11.)

1. The method of treating lard to improve its keeping and other properties which comprises subjecting the lard

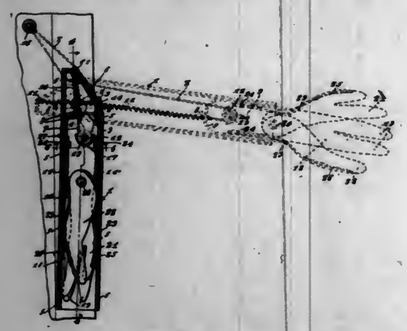
to a refining treatment to remove free fatty acids more or less completely therefrom and give a substantially neutral product, hydrogenating the refined lard to a regulated and limited extent to give a hydrogenated product of improved stability but still of lard-like consistency when cooled, deodorizing the hydrogenated lard, and cooling the deodorized product to impart to it a lard-like consistency.

1,755,136. TRACTOR-EQUIPMENT COMBINATION. WILLIAM D. SHOEMAKER, Drummond, and FRANK L. YOUNG, Chevy Chase, Md.; said Young assignor to said Shoemaker. Filed Aug. 6, 1928. Serial No. 297,678. 19 Claims. (Cl. 180—53.)



1. In a tractor-equipment combination, a tractor power plant, an equipment frame supported by said tractor adjacent the power plant, means for bracing said frame to a remote portion of the tractor, and means for either loosely or fixedly securing said frame directly to said power plant.

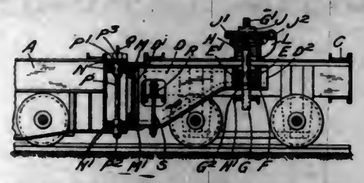
1,755,137. SIGNALING DEVICE. JOSEPH A. STEPHENS, Vermilion, S. Dak. Filed Oct. 4, 1929. Serial No. 397,344. 3 Claims. (Cl. 116—52.)



1. In a signal of the class described, a hollow member representative of the human arm, means supporting the same for swinging movement, manually operable means for effecting such swinging movement, a unit representative of a human hand and comprising digit-representing members, the said hand unit being slidably mounted within the hollow member for concealment therein and projection therefrom, and means operably to automatically effect relative spreading of said digit-representing members when the hand unit is projected from the casing.

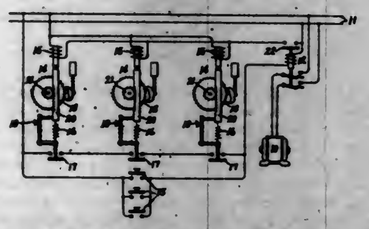
1,755,138. TRAVELING CRANE. ANTONY SCOTT STOKES, Ipswich, England. Filed Sept. 26, 1929, Serial No. 395,439, and in Great Britain Oct. 4, 1928. 7 Claims. (Cl. 105—75.)

1. In a traveling crane, the combination of a crane truck, a relieving bogie for carrying part of the weight of the crane when traveling, a relieving girder for transferring weight from the truck to the bogie, means for connecting one end of the girder to the truck, and a connection between the other end of the girder and the bogie



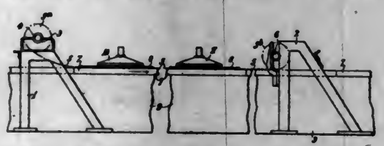
such that the bogie is permitted to swivel about a vertical axis and also to oscillate about axes in the horizontal plane so as to allow the bogie to roll and to pitch.

1,755,139. CONTROL SYSTEM AND APPARATUS. GEORGE R. TOWNSEND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 5, 1927, Serial No. 210,971. Renewed Sept. 16, 1929. 20 Claims. (Cl. 175—294.)



1. In a time element control, the combination of an element automatically operable with a time delay in response to variations in a predetermined condition, a second element under the control of said first element and automatically operable independently thereof in response to variations in a predetermined condition, and connections between the elements through which the second element controls the first element to effect time delay operation thereof upon automatic operation of the second element.

1,755,140. APPARATUS FOR GRINDING AND/OR POLISHING GLASS. FREDERIC BARNES WALDRON, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool, England, a Company registered under the Limited Liability Companies Acts of Great Britain. Filed July 16, 1929, Serial No. 378,607, and in Great Britain Sept. 14, 1928. 6 Claims. (Cl. 51—110.)



1. In apparatus for grinding or polishing plates or sheets of glass, the combination with a series of traveling tables on which the glass is laid and a series of grinding or polishing discs beneath which the tables are adapted to move continuously, of a roll of clean cloth located at the commencing end of the operative course of the tables, a rotatable mandrel within the roll, and means adapted to unwind the cloth from the roll at the speed of travel of the tables.

1,755,141. SCISSORS. JOHN M. WOYTHAL, Chicago, Ill. Filed Apr. 15, 1929. Serial No. 355,213. 2 Claims. (Cl. 30—13.)

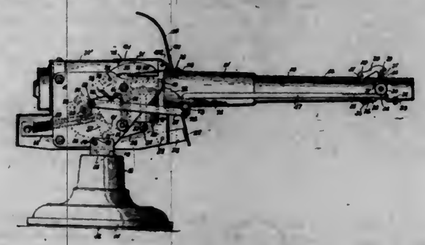
1. Means for providing a connection between two cooperating cutting elements having registering openings

comprising two members arranged in opposing relation with respect to each other inserted in said openings and each provided with an enlarged head adapted to bear against adjacent surface of the cutting elements, one of said members being formed at its end opposite its head to



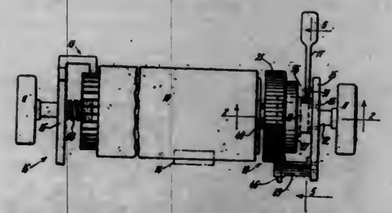
provide a shoulder, a resilient member mounted between said members and having one end engaging the shoulder, and means carried by the other of the members for comprising said resilient member so as to yieldably urge said members toward each other and bear the heads thereof against said adjacent surfaces.

1,755,142. TOY GUN. LOUIS V. ARONSON, Newark, N. J. Filed Apr. 26, 1928. Serial No. 272,976. 19 Claims. (Cl. 46—46.)



1. A toy gun comprising, in combination, a barrel, a mount therefor, flash producing means located adjacent the muzzle of the barrel, pneumatic explosion producing means, an operating shaft and means whereby continuous rotation of said shaft repeatedly operates the flash producing means and the pneumatic explosion producing means in synchronism.

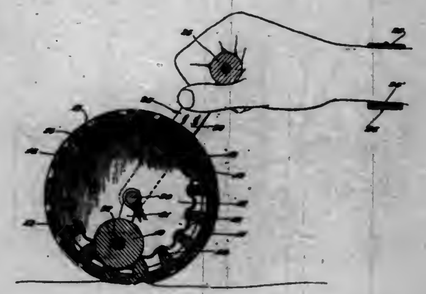
1,755,143. PLATEN-ADJUSTING DEVICE. LORENZO ARRANZ, New York, N. Y. Filed May 19, 1928. Serial No. 279,104. 10 Claims. (Cl. 197—125.)



7. A fractional letter spacing device for a typewriter comprising a platen frame, a shaft having a platen fixed thereto and longitudinally slidable in said frame, a cam element fixed to said frame through which the shaft is slidable, and a separately revolvable device on said shaft cooperating with said cam element to slide the platen and its shaft longitudinally.

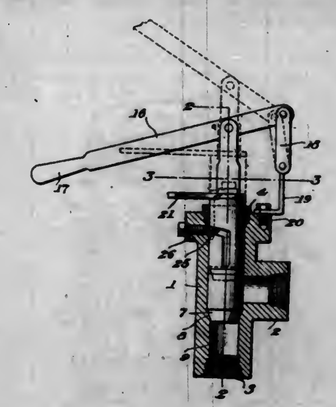
1,755,144. MASSAGE DEVICE. LORENZO ARRANZ, New York, N. Y. Filed June 4, 1928. Serial No. 282,616. 7 Claims. (Cl. 128—57.)

1. A massage device comprising a cylindrical casing, an outer sleeve carried thereby and having yieldable vacuum cups provided therein, yieldable heads disposed behind said vacuum cups and extending inwardly through said cylindrical casing, handle means, and free turning roller means



within said casing for successively engaging said heads for expelling air from said vacuum cups as the device is rolled over a surface to be massaged.

1,755,145. BLOW-OFF OR MUD VALVE. HARRY DONALDSON BARR, Jackson, Miss., assignor of forty-nine one-hundredths to B. B. McClendon and L. L. Posey, Jackson, Miss. Filed Mar. 17, 1928. Serial No. 262,516. 2 Claims. (Cl. 251—75.)

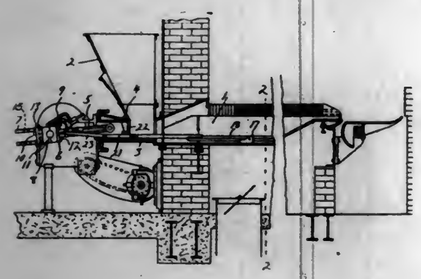


1. A valve of the character described comprising a casing, a nipple formed with said casing and being provided with screw threads, said nipple providing the inlet for the valve, said casing having a passage flared at its lower end and providing the outlet, a core mounted for reciprocation in a bore communicating with the passage and nipple and being adapted to control communication between the outlet and nipple, means for reciprocating said core, a valve seat for said core, a stud guided in a slot formed in said core when the core is rotated for fixedly securing said core on its seat, and means for rotating said core for moving the slot with respect to the stud.

1,755,146. UNDERFEED STOKER. ROYCE L. BEERS, Detroit, Mich., assignor to Detroit Stoker Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 19, 1925, Serial No. 3,521. Renewed Oct. 2, 1929. 7 Claims. (Cl. 110—44.)

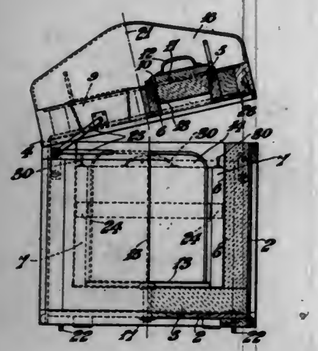
2. In a stoker, the combination with a retort, a ram for feeding fuel into the retort, and a pusher block for ad-

vancing fuel longitudinally of the retort, of a rotary drive shaft, a pitman rod for reciprocating said ram operatively connected to said shaft, a bar for actuating said pusher



block, an extension for the bar movable through the ram, and a link for actuating the bar connected to the extension and pitman rod.

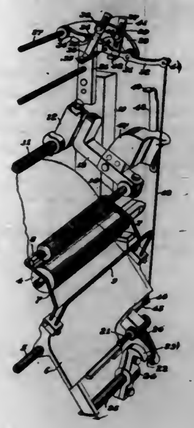
1,755,147. COOLING CABINET FOR ICE CREAM AND SIMILAR SUBSTANCES. PHILIP LEO BILHAM, Balham, London, and JAMES WOODROW SMITH, Barons Court, London, England, assignors to J. Lyons and Company, Limited, London, England. Filed Dec. 9, 1926, Serial No. 153,686, and in Great Britain Jan. 22, 1926. 3 Claims. (Cl. 62—75.)



1. A transportable refrigerating cabinet having walls of heat insulating material and adapted to receive articles, comprising in combination an insulated top continuous with the walls of insulating material and provided with openings having insulated removable covers, a plurality of removable narrow receptacles containing refrigerating substance or eutectic mixture, means for holding them against all the vertical walls of the cabinet and means for screening the cabinet while the covers are removed from the openings.

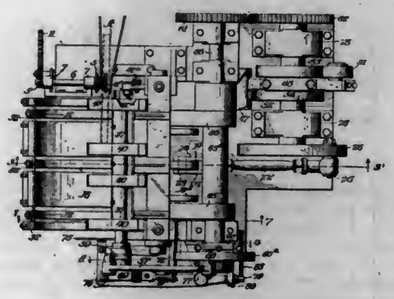
1,755,148. YARN-WINDING MACHINE. EDWARD A. CUNNIFF, Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Co., Inc., a Corporation of Massachusetts. Filed May 8, 1928. Serial No. 276,044. 9 Claims. (Cl. 242—39.)

1. In a yarn winding machine, the combination of a yarn package driving roll, a yarn package holder movable towards and from said roll, a power operated vibrator, a dog adapted to engage said vibrator, a pivotally mounted lifter frame on which the dog is mounted, lifter arms extending from the lifter frame for engaging and moving the yarn package away from the driving roll, a pivotally mounted trip arm having a pivotally mounted dog con-



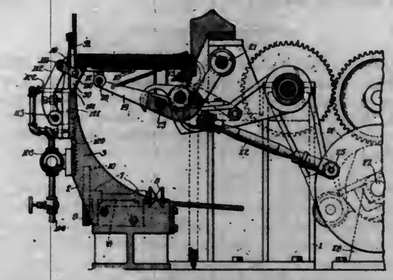
troller, connections between the dog and dog controller, and means actuated by the yarn package holder to effect movement of the dog by the dog controller into engagement with the vibrator when the yarn package has reached a predetermined size to swing the lifter frame and cause the lifter arms to engage the yarn package to disengage the yarn package from its driving roll.

1,755,149. DELIVERY MECHANISM FOR NEWSPAPER STUFFING OR SIMILAR MACHINES. SEVERIN HALVORSEN, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash., a Corporation of Washington. Filed May 20, 1922. Serial No. 562,463. 50 Claims. (Cl. 271—87.)



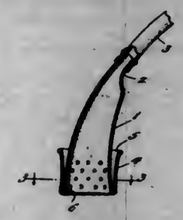
1. A machine of the class specified comprising means for acting upon an article in a substantially vertical position and swinging it up to substantially horizontal position and placing it at the bottom of a stack or pile of similar articles arranged one upon another.

1,755,150. DELIVERY MECHANISM FOR NEWSPAPER STUFFING MACHINES. SEVERIN HALVORSEN, Chicago, Ill., assignor to The Newspaper Stuffing Machine Company, Seattle, Wash., a Corporation of Washington. Filed Oct. 25, 1926, Serial No. 143,851. Renewed Sept. 26, 1929. 11 Claims. (Cl. 271—83.)



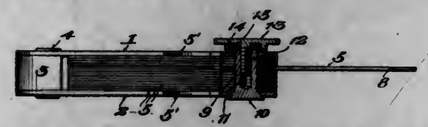
1. A machine of the class specified having a member for engaging an article in a substantially vertical position and swinging it up to substantially horizontal position and means for directing a blast of air toward the member to hold said article in place thereon prior to and during said action.

1,755,151. DEVICE FOR CLEANING THE SCALP AND HAIR. JOCK LEE HENDERSON, Williamstown, W. Va. Filed May 31, 1928. Serial No. 281,869. 2 Claims. (Cl. 15—155.)



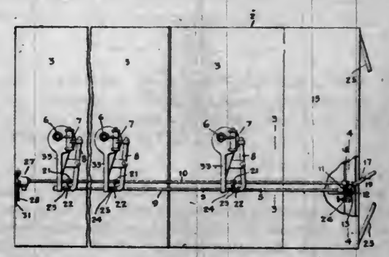
1. A device for cleaning the hair and scalp, comprising a nozzle adapted to be connected with a suction device and having perforations formed in the wall thereof, and a guard including a wall having its lower end joined with the lower end of the nozzle, said wall being spaced from the nozzle and extending above the perforations to provide an annular air passage open at its upper end.

1,755,152. RADIUS TOOL. JOHN W. PARKER, Barrington, R. I., assignor to Brown & Sharpe Mfg. Co., Providence, R. I. Filed June 18, 1928. Serial No. 286,135. 1 Claim. (Cl. 33—178.)



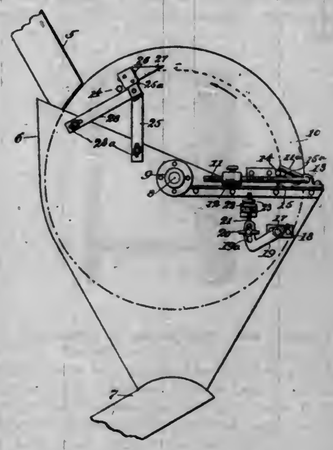
In a radius tool, a pair of spring plates, a post at one end of the plates, means to connect the plates to the opposite ends of the post, a series of longitudinally slotted blades disposed between the plates, a pin projected through the slots of the blades and having a head engaged with the opposite end of one of the plates, and having a threaded bore, a screw in the bore having a head with a circular flange on its under side, and a coil spring encircling the screw and housed at one end within the flange and engaged at its other end with the other plate to tension the latter and to hold the screw against accidental rotation.

1,755,153. SELECTIVE VALVE-ACTUATING MEANS. PAUL S. SHIELD, Cincinnati, Ohio, assignor to Augustine Davis, jr., Cincinnati, Ohio. Filed Jan. 30, 1929. Serial No. 336,087. 8 Claims. (Cl. 137—21.)



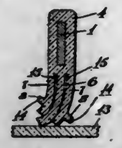
1. Means for selecting and actuating any of a plurality of valves comprising members operatively related to the valves, an actuating shaft and actuating elements operated thereby, connectors adapted to be interposed in operative relation between said actuating elements and said members, means for causing any of said connectors to be in operative relation and others to be out of such relation, said means comprising a selecting shaft extending in the same direction as the actuating shaft and adapted to be moved to any one of a number of positions, said shaft being provided with means for controlling said connectors, means for operating said selecting shaft, and means for operating said actuating shaft.

1,755,154. AUTOMATIC WEIGHER. SHELDON W. SMITH and EDMUND S. SMITH, Springville, Iowa. Filed Sept. 30, 1927. Serial No. 223,141. 3 Claims. (Cl. 249—19.)



1. An automatic weigher for grain and the like, comprising a hopper, means for delivering material to and from the same, a rotor provided with a series of equal buckets, and turning by the weight of its load in the hopper, a series of equally spaced lateral stop-studs, a scale-beam having a trip-lever disposed in the path of said studs, a frictional spring retarder in the path of the studs' movement toward the trip-lever, means adapted for the rocking of said spring, and screw-threaded adjusting means connecting with said rocking means.

1,755,155. WINDSHIELD WIPER. WILLIAM STOBRIE, Providence, R. I., assignor to Apco Mossberg Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 303,344. 3 Claims. (Cl. 15—255.)

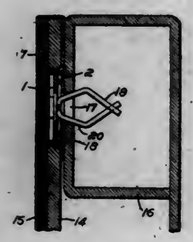


1. A molded rubber wiper comprising a body portion, a plurality of wiping strips integral with said body portion, the outside surfaces of said wiping strips being substantially flush with the outer surfaces of said body portion, and a reinforcing and stiffening strip or rib of rubber integral with each said outside surface of said strips, each of said ribs having a wiping edge angularly disposed with relation to said outside surfaces of said strips.

1,755,156. BONE BLACK OF GREAT DECOLORIZING POWER. EDOUARD URBAIN, Paris, France, assignor to Urbain Corporation, a Corporation of Delaware. Filed July 3, 1926, Serial No. 120,535, and in France July 22, 1925. 4 Claims. (Cl. 252—3.)

1. In a process of producing bone-black of great decolorizing power, the steps of treating pieces of bone with acid under conditions adapted to remove calcium carbonate from such pieces without causing them to disintegrate, and thereafter calcining the residue of such pieces.

1,755,157. SEPARABLE-FASTENER UNIT. ANDREW G. ANDERSON, Wollaston, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed May 12, 1928. Serial No. 277,235. 5 Claims. (Cl. 24—213.)



5. A fastener unit comprising, in combination, a casing having an annular wall, fastener element holding means provided as a part of said casing and extending inwardly with relation to said wall to provide a space surrounded by said wall, a wire stud fastener element having a base located in the space between said fastener element holding means, means extending outwardly from said wall and attaching means associated with said casing to cooperate with said outwardly extending means for securing said unit to a support.

1,755,158. PROCESS OF MANUFACTURING GRINDING AND POLISHING DISKS. EDWIN BECKER, Berlin-Hermsdorf, Germany. Filed Apr. 6, 1927, Serial No. 181,598, and in Germany Mar. 16, 1926. 1 Claim. (Cl. 25—155.)

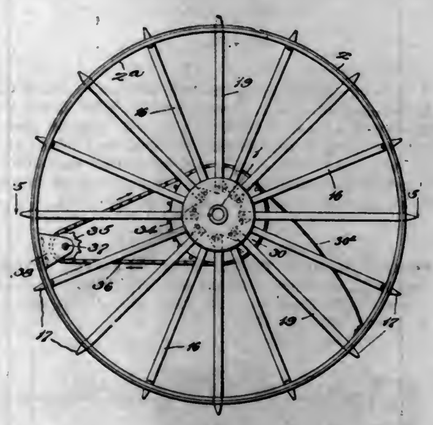
A process of pressing grinding and polishing disks by irregular density by heaping the material on the point of the intended compression, consisting in distributing the material in the mould from the edge towards the center in an ascending plane, in submitting the material to a first pressing so that the curvature of the surface almost disappears, in turning the mould with the pressed body upside down, and in pressing the pressed body again to obtain the final shape.

1,755,159. FISHING ROD AND METHOD OF MAKING SAME. ROBERT H. COWDERY, Geneva, and WILSON D. GRIMES, Cleveland, Ohio, assignors to The American Fork & Hoe Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 9, 1927. Serial No. 173,864. 2 Claims. (Cl. 43—18.)



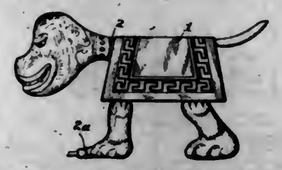
1. A fishing rod adapted for casting purposes, comprising a single billet of tempered steel, tapered from butt to tip, solid throughout its length, said taper beginning with a relatively more rapid reduction of the cross-sectional area of the rod for a substantial distance from its butt than at points beyond such portion.

1,755,160. TRACTOR WHEEL. JOHN A. GRANT, Trumansburg, N. Y. Filed Feb. 13, 1929. Serial No. 339,679. 4 Claims. (Cl. 301—46.)



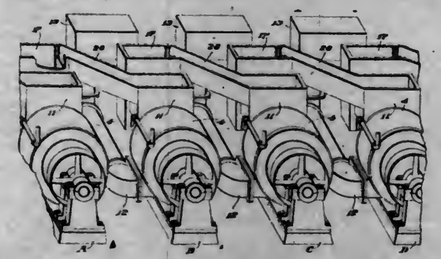
1. In a traction wheel, the combination of a hub, a rim concentric with said hub, spokes uniting the hub and rim, openings in the rim, thrust rods having teeth at their outer ends, operating means for the thrust rods comprising a disc rotatable on said hub, means pivoting the inner ends of the rods directly on said disc, including pin and slot connections, and bearings formed on said disc, the inner ends of the thrust rods resting on said bearings, whereby the thrust of the rods is transmitted directly to the bearings, said teeth adapted to be projected through said openings in the rim or retracted by rotation of said disc.

1,755,161. TOY. ROY B. WEIMER, Akron, Ohio, assignor of one-half to The Miller Rubber Company, Akron, Ohio. Filed Jan. 27, 1928. Serial No. 249,890. 2 Claims. (Cl. 46—40.)



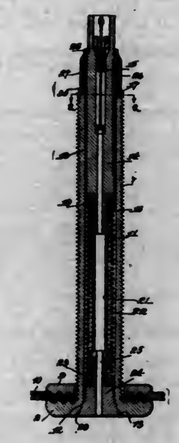
1. A child's toy comprising a single sheet of thin stiff cardboard or the like relatively stiff, nonyielding material folded to form a box-like structure providing an enclosed space, said box-like structure having relatively thin walls disposed in different planes and provided with openings punched through the walls, and a body of inflatable expansible material disposed within the enclosed space and having parts projecting through said openings substantially perpendicularly with respect to said walls and interlocked therewith, by the expansion of said body on either side of the relatively sharp edges presented by the walls at said openings to a diameter or width exceeding the diameter or width of said openings.

1,755,162. METHOD OF AND APPARATUS FOR SCREENING PULP. ANTON J. HAUG, Nashua, N. H. Filed Dec. 20, 1928. Serial No. 327,390. 19 Claims. (Cl. 92—20.)



1. That improvement in processes of screening pulp, which consists in subjecting a stream of pulp to a series of centrifugal screening operations in each of which a part of the fine stock is taken from said stream while a sufficient proportion of good stock is retained with the materials rejected in each screening operation to maintain the consistency of the unscreened stock approximately unchanged during the greater part of the process and while the pulp passes from one screening operation to the next.

1,755,163. GAUGE. PHILIP E. PULVERMAN, New York, N. Y., assignor to The Visometer Corporation, New York, N. Y. Filed Dec. 22, 1922. Serial No. 608,388. 15 Claims. (Cl. 73—111.)



1. A device of the character described, comprising a tubular body adapted to be secured at one end thereof to a container and to afford communication with the interior thereof, a plunger carried within the bore of the body, said plunger projecting from one end of the body, a collar on the projecting end of the plunger, and a thimble carried on the body and adapted to cooperate with the collar to limit the movement of the plunger into the tubular body.

Patents Nos. 1,755,164 to 1,756,012

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Reissues	7—No.	17,645 to No.	17,651, inclusive.
Designs	51—No.	80,993 to No.	81,043, inclusive.
Patents	849—No.	1,755,164 to No.	1,756,012, inclusive.
Total	1,289		

Printed Copies of Trade-Marks

A printed copy of the drawing and statement of any registered trade-mark can be obtained for ten cents.

Interviews with Examiners

RULE 18. Interviews with Examiners concerning applications and other matters pending before the Office must be had in the Examiners' rooms at such times, within office hours, as the respective Examiners may designate; in the absence of the Primary Examiners, with the assistant in charge. Interviews will not be permitted at any other time or place without the written authority of the Commissioner. Interviews for the discussion of pending applications will not be had prior to the first official action thereon.

Adjudicated Patents

(D. C. N. Y.) Van Deventer patent, No. 1,181,623, for electrical condenser and manner of mounting the same, claims 2, 3, 4, and 5 *Held* invalid; claims 6 and 7 *Held* valid and infringed. *Splitdorf Electrical Co.* v. *Dubilier Condenser & Radio Corporation*, 37 F. (2d) 745.

(C. C. A. N. Y.) Dubilier patent, No. 1,497,095, for electrical condenser, claims 3 and 8 *Held* invalid. *Dubilier Condenser & Radio Corporation* v. *Aerovox Wireless Corporation*, 37 F. (2d) 657.

(D. C. N. Y.) Hatch patent, No. 1,574,424, for condenser, *Held* not infringed. *Splitdorf Electrical Co.* v. *Dubilier Condenser & Radio Corporation*, 37 F. (2d) 745.

(D. C. N. J.) Spies patent, No. 1,578,688, for plaster-of-Paris bandage, *Held* invalid. *Byrnes* v. *Johnson & Johnson*, 37 F. (2d) 721.

(D. C. Del.) Mackintosh reissue patent, No. 15,115, for method of driving electrical centrifugal machines, *Held* valid and infringed. *S. S. Hepworth Co.* v. *Penick & Ford*, 37 F. (2d) 782.

NOTICE—CHANGES IN PATENT OFFICE FEES—EFFECTIVE JUNE 1, 1930

The act of Congress approved April 11, 1930, amends section 4934, Revised Statutes, so as to provide that, except in design cases, the fee for filing each original application for patent and the fee for issuing each original patent shall each be $25.00 and $1.00 for each claim in excess of 20, instead of the present fees of $20.00 and $1.00 for each claim in excess of 20; and amends the trade-mark acts of 1905 and 1920 so as to provide that the fee for registration of trade-marks and for renewals of registrations shall be $15.00 instead of the present fee of $10.00.

The act also provides that the fees for recording assignments or other papers shall be, if the paper does not exceed six pages, $3.00; for each additional two pages or less $1.00, and for each additional patent or application where more than one is included or involved in such writing 50 cents additional.

These new fees are effective on and after June 1, 1930.

Applications for patents, except in design cases, received on and after June 1, 1930, with only the present $20.00 fee will not be entered but will be given a filing date and serial number as of the day the full fee of $25.00 and the additional fee of $1.00 for each claim in excess of 20 is received by the Patent Office.

Condition of Applications Under Examination at Close of Business April 11, 1930

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 116,468; Trade-Mark Division, 1,463. Oldest new case, May 17, 1929; oldest amended, June 3, 1929. The dates given are 1929 except where † indicates 1930.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Aug. 1	Sept. 4	1,321
126	2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco	July 10	July 14	2,081
331	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment	July 25	Nov. 2	1,530
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Sept. 18	Sept. 24	1,297
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	July 18	July 24	1,469
318	6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch	June 12	June 19	3,276
106	7. JARBOE, O. G., Optics; Photography	July 1	July 1	2,550
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	July 3	Oct. 19	1,618
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Sept. 23	Sept. 26	1,426
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 12	Aug. 14	1,801
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Oct. 16	Oct. 26	1,001
380	12. PIERCE, P. P., Machine Elements	Sept. 6	Sept. 14	1,477
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 8	July 15	1,646
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 3	July 15	1,467
329	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	June 20	June 25	3,029
242*	16. SPENCER, C. J., Telegraphy; Telephony	Aug. 1	Sept. 12	1,256
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	June 26	July 16	1,645
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 21	Aug. 12	1,491
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	July 6	July 9	2,153
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Aug. 17	Aug. 27	1,611
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Aug. 8	Oct. 26	891
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	Aug. 28	Sept. 30	1,687
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 15	June 20	1,211
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	June 12	June 29	1,330
		Aug. 16	Aug. 31	1,559
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	July 3	July 27	1,241
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	June 26	July 13	1,646
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 14	Aug. 8	2,097
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Oct. 18	Oct. 22	739
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	July 6	Dec. 2	1,257
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	July 24	July 25	2,573
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Aug. 31	Aug. 31	1,789
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	June 14	June 12	2,632
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Aug. 1	Aug. 14	1,174
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Sept. 30	Oct. 1	1,868
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring	July 29	Aug. 19	2,354
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	July 16	July 24	2,126
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	June 24	June 24	2,105
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 17	June 17	2,009
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	June 20	Sept. 28	3,130
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Aug. 2	Sept. 3	1,416
223*	42. CUTTING, H. O., Electric Signaling	Aug. 30	Sept. 14	1,630
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	June 20	June 20	2,307
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	June 11	June 12	2,338
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	July 2	July 11	2,512
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 9	Aug. 23	1,672
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	June 17	July 17	2,595
212*	48. ROEPKE, O. B., Electricity, General Applications	July 11	July 13	1,385
239	49. EDINBURG, F. P., Chock-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Oct. 4	Oct. 18	1,184
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	July 9	July 10	2,907
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	July 15	July 15	2,362
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Aug. 23	Aug. 26	2,645
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Oct. 23	Oct. 25	1,308
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	July 1	July 6	2,809
102	55. BOWEN, S. T.—Bread, Pastry, and Confection Making; Cutlery	†Jan. 11	†Jan. 11	432
	55. BOWEN, S. T.—Designs	†Mar. 14	†Mar. 28	363
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	July 5	July 5	2,501
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	June 20	July 23	1,272
270*	58. DOWELL, E. F., Abrading; Typewriting	May 17	June 3	1,529
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins, and Leather; Fuel.	June 18	June 24	3,011
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	July 13	July 17	2,405
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	June 13	June 21	2,642
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	July 13	July 17	2,798
163	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND—Trade-Marks	†Mar. 14	†Mar. 28	1,319
	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND—Labels and Prints	†Mar. 12	†Mar. 28	144

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

ARNOLD *v.* LANGMUIR

No. 2,188. Decided January 13, 1930

[36 F. (2d) 834]

1. INTERFERENCE—PRIORITY—CONSTRUCTIVE REDUCTION TO PRACTICE.

Where the counts of an interference depend upon the asymmetrically-conducting properties of a repeater which was disclosed in L.'s second application directly involved in the interference and his earlier application was silent as to such properties but discloses a repeater such as it would be apparent to those skilled in the art has the inherent properties of an asymmetrically-conducting repeater, *Held* that these counts read upon the earlier application and that L. is entitled to the filing thereof as a constructive reduction to practice of the invention.

2. SAME—SAME—LACHES.

Where L., who had filed an application on October 29, 1913, did not file his divisional application copying the claims of the A. patent of February, 1924, until April 24, 1924, *Held* that L.'s delay in filing the divisional application did not constitute such laches as to bar his right to the claims.

3. INTERFERENCE—PRIORITY—REDUCTION TO PRACTICE.

The testing of a device alleged inherently to embody the invention of certain counts, but with no actual test as to the features upon which the invention depended, *Held* that such tests did not establish a reduction to practice of the invention.

4. SAME—SAME.

Priority as to certain counts held properly awarded to L. on the ground that while A. was the first to conceive the invention he was not the first to reduce to practice and was not diligent in so reducing it.

5. SAME—SAME—CONCEPTION.

Proof by A. of experiments with a Vreeland oscillator having no discharge-controlling electrode and no input circuit upon which the output circuit reacted *Held* not to establish conception of the invention of certain counts of the issue which require an oscillation generator of the audion type or a generator having an input and an output circuit, the latter reacting upon the input circuit.

APPEAL from the Patent Office. Affirmed.

Mr. F. T. Woodward, Mr. R. R. Adams, and *Mr. Elmer V. Griggs* for Arnold.

Mr. C. E. Tullar and *Mr. H. E. Dunham* for Langmuir.

GRAHAM, *P. J.:*

Interference proceedings were instituted in the Patent Office between the appellant, Harold D. Arnold, and the appellee, Irving Langmuir. The subject matter of the interference is contained in 12 counts, three of which are typical and which are as follows:

1. An oscillation generator comprising a resonant circuit for determining the frequency supplied by said generator; a load circuit adapted to be energized by said generator and a three electrode electric discharge repeater for transferring alternating current energy from said generator to said load circuit and preventing said load circuit from reacting on said generator.

5. An oscillation generator of the audion type, an alternating current load circuit and an audion repeater between said generator and said load circuit whereby the frequency of the current supplied by said generator is independent of the character of said load circuit.

6. An oscillation generator comprising a discharge device having an input circuit and an output circuit reacting on said input circuit, a load circuit for coupling said generator to a load, and an asymmetrically conducting repeater in circuit between said generator and said load for preventing said load from reacting on said generator.

The senior party, Langmuir, filed his divisional application, Serial No. 708,820, on April 24, 1924. This was claimed to be a division of a prior application, Serial No. 797,987, filed October 29, 1913, and which said original application was pending at the time this interference was declared. The junior party, Arnold, filed his application for patent August 28, 1917, Serial No. 188,562, and which application ripened into a patent on February 26, 1924. On March 23, 1925, Arnold moved that the burden of proof in the interference matter should be shifted to rest upon Langmuir, for the reason that the counts involved in this interference are not supported by the disclosure in Langmuir's earlier application, No. 797,987, and that Langmuir should, therefore, be restricted to his application No. 708,820, which, as we have seen, was filed subsequent to Arnold's filing date. At the same time, Arnold moved that the interference be dissolved on the alleged ground that claims corresponding to the interference counts are unpatentable to Langmuir, in view of certain references which are said to be statutory bars against the divisional application of Langmuir, and which are said to be not bars against, and which do not anticipate, the Arnold patent involved herein. In connection with this motion certain specified references are relied upon. The Law Examiner, after consideration of these motions, held that the alleged divisional application of Langmuir was entitled to the date of the parent case as to counts 1 to 11, inclusive, and 14, but not as to counts 12 and 13, as to which counts the motion to dissolve was allowed. This action was approved by the Examiner of Interferences. Thereafter the Examiner of Interferences awarded priority of invention to Langmuir, and the Board of Appeals affirmed this decision.

[1] The first matter for consideration is the contention made by appellant that the claims made in the divisional application of appellee do not read upon the original claims in appellee's parent application of October 29, 1913, and that, therefore, the appellee is not entitled to any earlier date of disclosure and constructive reduction to practice than that shown by his divisional application, namely, April 24, 1924. In this respect it is claimed that in the said parent application Langmuir did not refer to the repeater which is connected between the oscillating generator and the load circuit as an asymmetric device, whereas, in the divisional application of Langmuir, and in the claims of Arnold in his patent, No. 1,485,156, this language is used. In reply to this suggestion the Law Examiner and the Ex-

aminer of Interferences both held that the original disclosure of Langmuir in the patent application was sufficient upon which to base the divisional application; that an examination of the device shown by the drawings and described in the specifications in the parent application of Langmuir were sufficient to disclose that the said device had the inherent properties of an asymmetrically conducting repeater.

We have examined the drawings in both the parent application and the divisional application of Langmuir, and find that the drawing in the divisional application, Figure 2, is exactly the same as the drawing accompanying the parent application. In the specifications in the parent application the said repeater is referred to as an "electron discharge tube," while Arnold's and Langmuir's divisional applications describe this device as being of the "audion" type. It is claimed by the appellee, and not controverted by the appellant, that the electron-discharge tube and audion have the same functions, and are operated in the same manner. The mere use of the word "asymmetric" is not in itself enough to make a distinction between the divisional claim and the parent application. If it is plainly apparent from the drawings and specifications, when read in view of the knowledge of the art which the experts in the Patent Office are presumed to have, that the same disclosure was made in each case, in our opinion that is sufficient upon which to base a divisional application. If the invention was shown in the parent application of Langmuir, even though the particular use of it now made might not have been in his mind at the time, he is entitled to any use to which his invention might be put. It was said in *Cleveland Foundry Co.* v. *Detroit Vapor Stove Co.*, 131 F. 853:

> This distinction harmonizes with the doctrine that the benefit secured by an invention extends to all the uses of which it is capable, whether the inventor had them all in contemplation or not, and the other rule, to which we have already referred, that it does not matter that he does not understand the principles on which his device operates. If he discovers new uses to which his invention may be put, or discerns the principles thereof more clearly, while his application is pending, in neither case is there any new invention, nor any enlargement of the old. And, that being so, there can be no legal objection to his so molding his claims as to secure all his invention discloses.

See also *Dwight & Lloyd S. Co.* v. *Greenawalt*, 27 F. (2d) 823; *Mershon & Co.* v. *Bay City B. & L. Co.*, 189 F. 741; *Howe Mach. Co.* v. *Nat. Needle Co.*, 134 U. S. 388, 51 O. G. 475; *Roberts* v. *Ryer*, 91 U. S, 150, 10 O. G. 204.

We agree with the Patent Office that appellee was entitled to make claims 1 to 11, inclusive, and 14, of his divisional application, and to take the date of the parent application, namely, October 29, 1913, for a constructive reduction to practice.

[2] It is contended by appellant that Langmuir failed to make his divisional application from October 29, 1913, to April 24, 1924, and that this circumstance should be held to constitute laches and to bar his claim. Arnold obtained his patent in February, 1924, and Langmuir made his divisional claim about two months later. No abandonment or lack of diligence is alleged to have occurred during that period. Langmuir was within the two-year rule of the statute construed in *Chapman* v. *Wintrouth*, 252 U. S. 126, 272 O. G. 913; *Webster Elec. Co.* v. *Splitdorf Elec. Co.*, 264 U. S. 463, *Westinghouse Elec. & Mfg. Co.* v. *Jeffrey, Etc.*, 22 F. (2d) 277, 327 O. G. 219, and other cases.

[3, 4] Both of the Patent Office tribunals found that Arnold had established conception of the invention of counts 1, 2, 3, 4, and 11 prior to Langmuir's record date. This finding being favorable to appellant, of course is not questioned by him, and in view of our conclusion as to the subsequent diligence of Arnold, the correctness of this finding is not material. Both tribunals held he had not been diligent from the time of this conception to Langmuir's record date. We concur in this finding. We can not improve on the statement of the Examiner of Interferences of this point.

> In considering whether or not any of the several experiments performed by Pierce amounted to a reduction of the invention defined by counts 1, 2, 3, 4 and 11 to practice the purpose of the invention must be taken into consideration. In the experiment, of which Exhibit 1 is the record, the testimony of Arnold and his witness Pierce is to the effect that the test had for its purpose to ascertain the characteristics of a certain audion detector tube. While the witnesses testified that they knew at that time that the audion tube had a high input impedance and was an asymmetrical device (Q. 20 of Pierce and Q. 5 of Arnold) the test of which Exhibit 1 is a record was not such as to constitute a reduction of the invention to practice. The experiment was not a test to determine whether or not a change in the load circuit or output circuit of the repeater would react on the generator to change its frequency. In this experiment Pierce did not actually measure the frequency of the oscillator or input to the audion detector. The different frequencies noted on the record, Exhibit 1, were taken from a calibrated oscillator (X-Q. 51). The output circuit of the audion (the load circuit of the counts) was not varied in the experiment (X-Q. 53). There was no actual test of the invention here in issue. To hold that this experiment was a reduction to practice of the invention, because as Arnold contends, the function or characteristic of these tubes to prevent the reaction of the load on the generator is inherent in such tubes, would be in effect to hold that the invention belongs to that class in which an actual test is unnecessary.

[5] The issue then squarely arises as to priority of conception of the subject matter of counts 5, 6, 7, 8, 9, 10 and 14. We must look to the record testimony to discover just what the respective conceptions of the parties were. As has been stated, Langmuir offered no evidence, relying upon his record date. The evidence offered on behalf of Arnold was, in brief, as follows:

Paul H. Pierce testified that he had been in the employ of the Western Electric Company and Bell Telephone Laboratories since July, 1911, and, in 1913, set up and operated an arrangement of a generator, a three-electrode vacuum tube and an alternating-current load circuit; that at that time he was working with Arnold; that on January 13th and 17th he took some frequency characteristics, using a Vreeland oscillator; that he was in that period continuously taking data on various audions; that he took complete measurements of input and output power with a three-element tube connected to an alternating current with a Vreeland oscillator; that the Vreeland oscillator had a large bulb with one cathode in a pool of mercury and two anodes, with two coils on each side of the bulb so that the field of the coils was at right angles to the electron streams between the cathode and the anodes; that the frequency was determined by the tuned circuit between the two anodes, which consisted of the two coils on the sides of the bulb and a variable condenser, the capacity of which could be changed by a system of switches; that he was familiar with the operation of the Vreeland oscillator at that time, and Arnold was in charge of his work; that the oscillator used in these experiments was similar to the sketch, Exhibit 4, which was then offered in evidence; that the device used had a high input impedance and is an asymmetrical device, so that changes in the output circuit do not react on the input circuit; that he knew of the characteristics of the audion in January, 1913, from measurements which he was then making with Arnold; that Arnold was familiar and with these; that he believed the results obtained were satisfactory, and that they were used in detailed studies of the audion characteristics which they were then examining; that Paul Clapp and he did work with a vacuum-tube oscillator circuit coupled to an audion circuit, on the output of which was coupled the load circuit being measured, about May 13, 1914; that circuits involving oscillation generators of this type followed by asymmetrical vacuum tube of the three-electrode type, leading into alternating current of some sort, have been used in the laboratories of the Western Electric Company since 1913; that in their experience, the output circuit of the audion did not vary and was not resonant to the frequencies applied to the input circuit.

Harold D. Arnold, the appellant, testified that he is employed by the Western Electric Company, reorganized as the Bell Telephone Laboratories; that during 1911 and 1912 he was studying the telephone repeater, using as a source of current some Vreeland oscillators arranged with a loosely-coupled connection to secure frequencies which would remain constant, even though different amounts of current were drawn from them because of variations in the load; that his attention was called to the De Forest audion in the latter part of 1912; that the latter part of December, 1912, he found the input impedance of these audions was of the order of a million ohms or more; that he then thought of attaching such a device to the output circuit of an oscillator by which there would be presented to the oscillator a practically-unvarying high resistance, independent of the load applied to the output circuit; that early in January, 1913, he asked Mr. Pierce to continue this work, which he did; that this work was part of a general study of audions and was done under his direction; that from 1913 to the end of 1917 such circuits were used rather frequently, and beginning in 1914, when their personnel on this work was considerably augmented, they were in practically daily use by a considerable number of people, which use has continued during the period mentioned; that the early uses of the invention were almost entirely in connection with circuits terminating in resistance or reactance loads and not in connection with radio; that they were working on telephony over wires.

Practically the whole controversy here revolves about the character of the experiments and the nature of the device used by Arnold and Pierce, as above set forth. If the appellant was then using in his experiments a device, the inherent qualities of which were identical with those of the Langmuir parent application, then he might well be said to be entitled to priority here. The Patent Office finds that the devices were not the same and that, therefore proof of conception by Arnold at that time is lacking and that he must be relegated to his filing date for a date of conception.

In the fifth count of the interference, the device is described as "an oscillation generator of the audion type." Was Arnold's experimental apparatus of the audion type? The tribunals of the Patent Office say it was not. As shown by Exhibit 4, the oscillator used by Arnold and Pierce in their experiments consisted of a glass tube, evacuated, having three electrodes, one cathode immersed in a bath of mercury, and two anodes, these latter being plates located in arms extending outward in opposite directions from the base of the tube. Direct-current electric power was connected with the cathode and by means of the apparatus described by Pierce and shown by Exhibit 4, oscillations were set up in the output circuit.

We agree with the tribunals below that this does not constitute an oscillator of the audion type. The word "audion" was registered as a trade-mark in 1916, registration No. 112,480, by the De Forest Radio Company, as a trade-mark for radio telephones and telegraph apparatus. But prior to that time, it was a word in quite common use and was applied by L. De Forest as a name for the tube in his application for the basic patent on vacuum-tube oscillators, No. 879,532, patented February 18, 1908. Funk & Wagnall's New Standard Dictionary, 1925, thus defines the word:

> Audion.—A small vacuum tube used to detect wireless waves.

The art, however, has given the word a somewhat more definite meaning and, as so used, it is understood to mean a highly-evacuated glass tube containing a cathode, usually a filament, capable of being heated by electric current, an anode or plate, to receive the current from the cathode, and an intervening grid or shutter, all of which are capable of connections outside the bulbs. By the use of the grid electrode, a controlling effect upon the discharge from the cathode is effected, so that potential variations applied to such electrodes will cause variations in the current flowing between the cathode and anode. The Thermionic Vacuum Tube and Its Applications, by H. J. Van Der Bijl (1920), p. 145. The Principles of Electric Wave Telegraphy and Telephone, by J. A. Fleming, (1916) p. 537.

It requires no particular amount of knowledge of the art to observe that the device used by the appellant and pictured in Figure 4, is not an audion, nor is it of the audion type. It has no heated cathode and no discharge-controlling electrode. There is, therefore, no proof of any conception by Arnold of the subject matter of count 5 in his experiments in January, 1913.

Counts 6, 7, 8, 9, 10 and 14 are each framed upon a generator which has an input and an output cir-

cult, the output circuit reacting upon the input circuit, De Forest, in the specification of his basic vacuum-tube invention hereto[illegible] referred to, stated:

I have determined experimentally that the presence of the conducting member a, which as before stated may be grid-shaped, increases the sensitiveness of the oscillation detector and, inasmuch as the explanation of this phenomenon is exceedingly complex and at best would be merely tentative, I do not deem it necessary herein to enter into a detailed statement of what I believe to be the probable explanation.

Following experimentation with the De Forest audion developed the fact that this device, when properly attached to input and output circuits, would feed back and build up electric frequencies received by it until they were greatly amplified. The present-day radio receiving and sending machines are the result.

Langmuir, in his original application, plainly disclosed such input and output circuits with his generator. It seems quite obvious to us that Arnold's oscillator or generator does not disclose anything of the kind. He did insert between his oscillator and his load circuit, in some of his experiments, a repeater with both input and output circuits. But his oscillator or generator had an output circuit only and was not capable of the reactive or amplifying features of the Langmuir device. There is nothing to show that Arnold had a conception of this principle or function when he was making his experiments with Pierce.

This being our conclusion; it follows that Arnold must depend upon his record filing date of his conception. As this was subsequent to Langmuir's parent application and constructive reduction to practice, he must fail in his contentions here.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

JUNG ARCH BRACE CO. *v.* SCHOLL MANUFACTURING CO., INC.

No. 2,154. Decided January 27, 1930

[36 F. (2d) 1005]

TRADE-MARKS—PRIOR ADOPTION AND USE—EVIDENCE.

Evidence reviewed and *Held* to establish that the S. Co., the applicant, adopted and used its mark prior to the earliest date of use established by the J. Company, the opposer, and that the S. Co. was properly held entitled to registration of its mark.

APPEAL from the Patent Office. Affirmed.

Mr. W. F. Murray for Jung Arch Brace Co.

Mr. Myron G. Clear for Scholl Manufacturing Co., Inc.

GRAHAM, *P. J.*:

The appellee, Scholl Manufacturing Company, Inc., filed its application for registration of trade-mark December 1, 1924. The mark in question was a representation of a naked foot within an annular life preserver and was applied to foot-corrective appliances such as arch supports, toe separators, and other like articles. The applicant alleged in its petition that it had used the mark continuously on its goods since February, 1915. The appellant, the Jung Arch Brace Company, filed notice of opposition to said registration, averring itself to be the owner of certificate of registration No. 133,216, issued March 14, 1922. Said registered trade-mark of appellant consists of a representation of the outline of the human foot enclosed within a circle, the foot having a representation of a brace or bandage around the instep of the same.

The Examiner of Interferences dismissed the notice of opposition and this decision was affirmed by the Commissioner.

The only question involved is that of priority of use of the mark in question. It appears from the record that appellant's first use of its registered mark on merchandise offered for sale was in September, 1919. The trade-mark of appellant having been registered prior to the application of appellee, the burden of proof is upon the applicant and any doubts will be resolved against him. *Bluthenthal* v *Bigbie*, 130 O. G. 2068, 30 App. D. C. 118; *Andrew McLean Company* v. *Adams Mfg. Co.*, 136 O. G. 440, 31 App. D. C. 509; *In re Nash Hardware Co.*, 143 O. G. 1347, 33 App. D. C. 221; *William Wrigley, Jr., & Co.* v. *Norris*, 152 O. G. 488, 34 App. D. C. 138; *Mayer Fertilizer & Junk Co.* v. *Virginia-Carolina Chemical Co.*, 156 O. G. 539, 35 App. D. C. 425.

We have examined the record and are unable to say that the Office is in error in finding a prior use of the mark in question by appellee. Appellee called three witnesses, William H. Scholl, executive of appellee, Daniel W. Landon, treasurer of appellee, and Charles H. Gill, advertising manager of appellee from 1917 to 1923. Scholl testifies that he offered a prize for an acceptable sketch for a trade-mark and as a result accepted and adopted the mark in question in February, 1915; that he has used the same continuously since that time as a trade-mark on arch supports, bunion pads, and similar goods. To corroborate this, he offers advertisements from two trade papers, issued in March, 1917, showing the mark in question. It is true that the mark to be effective must be used on the articles offered for sale and that its use for advertising only is not sufficient. *Battle Creek Sanitarium Co.* v. *Fuller*, 134 O. G. 1299, 30 App. D.-C. 411; *Columbia Mill Co.* v. *Alcorn*, 65 O. G. 1916, 150 U. S. 460. But the advertisements in question are corroborative of the positive testimony of Scholl that the mark was used on the goods.

Scholl's testimony as to the date of use is also corroborated by the testimony of Landon and Gill.

It is strenuously insisted by counsel for appellant that Exhibit 4, a pasteboard carton offered in evidence by appellee, is conclusive proof of a fabricated case on the part of appellee. It was found that this carton had two paper covers, the outer one bearing the advertisement of appellee with the mark in question, and the inner one containing the advertisement without the mark. In addition, George H. Jung, jr., went into the market on February 12, 1926, and purchased one of appellee's appliances, in a carton, not having the trade-mark upon it. This carton was offered in evidence and is known as Exhibit 24. This, it is claimed, demonstrates that the appellee did not, in fact, use the mark, at the early date it claims. We can not follow the appellant in this contention. There is no proof in the record as to how long the carton in question had been in the possession of the merchant from whom Jung purchased it. Scholl sold his goods in cartons prior to the adoption of his mark in 1917. If he had cartons on hand at that time, nothing is more natural than that he should paste new labels over the old ones and thus be able to use the cartons he had on hand. Certainly, if appellee intended to fabricate evidence, it would not have pasted a properly marked label on the top of one not so marked, and thus lay itself open to the liability of discovery. Litigants fabricating evidence usually do a better job than this.

We see no reason to disturb the decision of the Commissioner, and it is affirmed.

Affirmed.

CARNEGIE LIBRARY OF ATLANTA

U. S. Court of Customs and Patent Appeals

AMERICAN FRUIT GROWERS, INC., *v.* MICHIGAN FRUIT GROWERS, INC.

No. 2,248. Decided March 19, 1930

1. TRADE-MARKS—OPPOSITION—QUESTION TO BE DETERMINED.

In an opposition, where the goods of the parties possess the same descriptive properties, the sole question for determination is whether the mark of the applicant is confusingly similar with that of the opposer. If it is, registration ought to be denied; if it is not, registration ought to be granted.

2. SAME—CONFUSING SIMILARITY.

A mark, used upon fresh and canned fruits, consisting of the word "Michigander" and the representations of two or three kinds of fruits with an outline tracing of the Lower Peninsula of Michigan and the representation of a goose in white upon a black and white background, *Held* confusingly similar to a mark used upon fresh fruits and vegetables consisting of the words "Blue Goose" appearing immediately above the representation of a "blue goose" enclosed within a double circle.

APPEAL from the Patent Office. Reversed.

Mr. R. T. M. McCready and *Mr. Chas. R. Allen* for American Fruit Growers, Inc.

Mr. James Atkins for Michigan Fruit Growers, Inc.

HATFIELD, *J.*:

This is an appeal, in a trade-mark opposition proceeding, from the decision of the Commissioner of Patents affirming the decision of the Examiner of Interferences dismissing the opposition of appellant and adjudging appellee entitled to the registration of a composite trade-mark (Serial No. 218,983) consisting of the word "Michigander" and representations of two or three kinds of fruit inclosed within a double circle, together with an "outline tracing of the Lower Peninsula of Michigan, and the representation of a goose in white" upon a black and white background, for use on fresh and canned fruits.

Appellant's trade-mark consists of the words "Blue Goose" appearing immediately above the representation of a blue goose inclosed within a double circle. This mark was registered on January 13, 1920. It has been used by appellant and its predecessor throughout the United States and many foreign countries since May, 1918, on fresh fruits and vegetables, and has become associated in the public mind with the highest quality of these commodities. Appellant has sold its products and advertised its mark extensively in every State in the United States, including the State of Michigan. Its trade-mark appears on packages in which its fruits and vegetables are contained, as well as on the skins of citrus fruits. As illustrative of the extent to which the mark of appellant is used, more than five million blue goose labels were used in 1925 on packages containing its products, and more than ninety-one million "pieces of citrus fruits" were printed with this label. During the same year appellant sold more than thirty-eight thousand carloads of fruits and vegetables for the sum of approximately forty million dollars. Large sums of money have been expended in advertising the mark in the newspapers, on posters, painted signs, in trade papers, magazines, in advertising matter to the growers of fruit, moving signs, etc.

It appears that appellee's application for registration of its mark was filed August 19, 1925. No evidence was submitted by appellee.

On March 5, 1927, the Examiner of Interferences held that "an inspection of the marks used by the parties makes it seem reasonably probable that confusion in trade would be likely," and, accordingly, that appellee was not entitled to have its mark registered.

On July 9, 1927, the Examiner of Interferences set aside his previous decision, dismissed the opposition, and held that appellee was entitled to have its mark registered for the following reasons:

This is an opposition which comes to final hearing before the Examiner for the second time. The situation is now different by reason of an amendment of the answer. In this amendment the defense of the use of marks by third parties is made. The evidence of this use is wholly statutory and is afforded by registrations, profert of which has been made by means of soft copies.

The defense relied upon is substantially the same as that which was employed in the cases of *Goodall Worsted Co.* v. *Palm Knitting Co., Inc.*, 352 O. G. 535; *Booth Fisheries Company* v. *Adams & Sons Grocer Company*, 350 O. G. 469. In effect, this defense is that the representation of a goose is less fanciful and arbitrary than it prima facie appears to be from mere inspection of the mark used by the opposer. Of the registrations relied upon, perhaps registration No. 97,009, issued May 12, 1914, will serve as an example. It discloses the notation "Gray Goose," accompanied by the representation of a goose, and is used on canned fruits and canned vegetables. It seems to the Examiner that this defense is well founded in view of the rulings in the cases just cited and the statutory evidence afforded by these registrations.

On appeal, it was held by the Commissioner of Patents that, although the registration of appellee's mark would probably cause confusion in the trade, nevertheless, in view of prior registrations and particularly registration No. 97,009, issued May 12, 1914, of the words "Gray Goose" accompanied by the representation of a goose for use on canned fruits and canned vegetables, appellee was entitled to have its mark registered. In explanation of this holding, the Commissioner said:

Some of the above noted registrations were issued long prior to the earliest date of adoption and use claimed by opposer. It would appear, in consequence, that opposer was not the first to adopt and use the representation of a goose upon goods of this class and it also appears that

the applicant's particular representation of the goose more nearly resembles that disclosed in registration No. 97,009 than it does the representation of a blue goose adopted and used by the opposer. Under these conditions, and following the practice announced in *Goodall Worsted Co. v. Palm Knitting Co., Inc.*, 352 O. G. 535, 56 App. D. C. 148, and *Booth Fisheries Company v. Adams & Sons Grocer Company*, 350 O. G. 469, 56 App. D. C. 142, *the opposer must be deemed restricted in its protection to such distinguishing features of its mark as are not found in prior registered marks used upon the same class of goods. Applying this test, it would seem the applicant's representation of a goose in no way infringes the particular representation adopted by opposer. Except as to the representation of the goose, the applicant's mark is quite dissimilar to that of the opposer.* (Italics ours.)

In the case of *Booth Fisheries Co. v. Adams & Sons Grocer Co.*, 56 App. D. C. 142, 10 F. (2d) 1007, the court had under consideration the opposition of appellant, owner of the registered trade-mark "Black Diamond" and a diamond-shaped figure, to the registration by appellee of the mark "Diamond A," "associated with the representation of a diamond inclosing a large capital 'A.' " The goods of the respective parties were of the same descriptive properties. In holding that appellant was not entitled to the exclusive use of the figure of a diamond, or the word "Diamond," or both, the court said:

There is no dispute that the goods of the respective parties are of the same descriptive properties. It appears that the Patent Office, both before and after adoption of the mark "Black Diamond" by appellant, registered the word "Diamond" in varying forms to many different parties, and to several for use upon goods of the same descriptive properties as those of appellant. Appellant, therefore, was not the originator of the diamond as a trade-mark for canned food products, and is not entitled to the exclusive use of that word or representation. *Alaska Packers' Ass'n v. Admiralty Trading Co.*, 43 App. D. C. 198; *Alaska Packers' Ass'n v. Getz Bros. & Co.*, 49 App. D. C. 55, 258 F. 527. See, also, *Am. Steel Foundries v. Robertson et al.*, 46 S. Ct. 160, 70 L. Ed. 317, decided in the Supreme Court of the United States January 4, 1926. On this point the Assistant Commissioner said:

"It seems to be fairly justifiable to hold that a diamond shape had been used to a considerable degree upon goods of this same general class before the opposer entered the field. Each of those who followed the first user of a diamond shape is only entitled to such distinctive features as he adds to his figure."

A different conclusion would result in the granting to appellant of a monopoly in the use of the word "Diamond" and representation of it, to which appellant is not entitled. *We agree with the Patent Office that the difference between the two marks is such as to entitle appellee to the registration of its mark.* (Italics ours.)

In the case of *Alaska Packers Association v. Admiralty Trading Company*, 214 O. G. 1025, 43 App. D. C. 198, cited in the *Booth Fisheries Co.* case, supra, appellee had applied for the registration of a mark consisting of the "representation of a flag 'having a blue background with a horizontally arranged white stripe with three stars,' together with the red monogram 'A. T. Co.'", for use on canned salmon. It appeared that the opposer—appellant—had used several different flags as trade-marks on goods identical in character. In disposing of the case, the court said, in part:

Since appellant has itself used the several different flags above described, in the sale of different brands of its goods, *it is hardly in a position here to contend that the mark of the applicant will be likely to cause confusion in trade, since that mark differs from each of its marks as much as they differ from one another. In other words, having sold these different brands of salmon under as many different flags, appellant is here estopped to contend that it will be damaged by the registration of applicant's mark*, and, having no standing to be heard, its petition was rightly dismissed. (Italics ours.)

In the case of *Goodall Worsted Co. v. Palm Knitting Co., Inc.*, 352 O. G. 535, 56 App. D. C. 148, the court held that, as a mark consisting of the words "Palm Island" and a representation of a palm tree had been used and registered long prior to appellant's use and registration of the words "Palm Beach," appellant was not entitled, in view of the fact that it was not the originator of the word "Palm," nor of the representation of a palm tree, in a trade-mark, to the exclusive use of such word or representation; and that appellee was entitled to the registration of its mark consisting of the words "Palm-Knit" accompanied by a representation of a palm tree in a rectangle, for use on goods possessing the same descriptive properties as those on which apellant's mark was used. In concluding its opinion, the court said:

* * * Both these features, the word "Palm" and the representation of a tree, were used prior to opposer's adoption and use of its mark, and these are the only features which are common to the mark of the applicant and that of the opposer.

As the Patent Office found, "Palm-Knit" differs from "Palm Beach" more than "Palm Beach" differs from "Palm Island."

Section 5 of the trade-mark act of February 20, 1905, provides, in part, as follows:

Sec. 5. That no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark unless such mark—

* * * * * * *

Provided, That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered: * * *

Without attempting to distinguish the decisions in the cases hereinbefore referred to, it is plain that they must be considered in the light of the quoted statutory provisions. In none of those cases were the involved trade-marks identical.

Considering the provisions of the second clause of the quoted proviso, together with the apparent lack of similarity of the involved marks and the language of the court, it is evident that those decisions were based upon the theory that the registrations of the respective marks would not be likely to cause confusion or mistake in the mind of the public or to deceive purchasers.

It appears in the case at bar that appellee seeks to register its mark for use on fresh and canned fruits. Appellant's mark is used on fresh fruits and vegetables. So far as we are aware, appellant was entitled to the registration of its mark for use on its products. If it was not, its mark ought not to have been registered; if it was inadvertently registered, those injured by such registration have a statutory remedy—application for cancellation. Appellee, however, is not injured by the registration of appellant's mark, and, while it may be that appellant is not the originator of a representation of a goose for use in a trade-mark, neither is appellee. Can it be said then that appellant is so narrowly restricted in the use of its mark that it is not entitled to the protection afforded by the statute? We think not. Accordingly, the goods of the parties possessing the same descriptive properties, the sole question for determination is whether the mark of appellee is confusingly similar to that of appellant. If it is, registration ought to be denied. If it is not, registration ought to be granted.

One of the dominant features of appellant's mark is the representation of a goose. The representation, blue in color, usually appears on a white, but sometimes on an orange, background, and is accompanied by the words "Blue Goose." The mark of appellee includes the word "Michigander," representations of two or three kinds of fruit, and an "outline tracing of the Lower Peninsula of Michigan," upon which appears the representation of a white goose—the dominant feature of the composite mark. The other so-called features of the mark, with the exception of the word "Michigander," are indistinct and can be recognized only by careful scrutiny. Why this is so, can only be conjectured. The word "Michigander" does not resemble, in appearance or in sound, the words "Blue Goose." This is not true, however, as to meaning.

We are of opinion that the dominant characteristics of appellee's mark are not sufficiently distinguishable from the mark of appellant; that the marks are confusingly similar; and that to permit the registration of appellee's mark would cause what the statute was intended to prevent—confusion, mistake, and deceit.

For the reasons stated, the decision is reversed.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,074,187, E. H. McCloud, Means for releasing the fastenings of metallic parts in case of fire; 1,081,129, same, Automatic fire-resisting shutter, filed Mar. 19, 1930, D. C., E. D. Mich. (S. Div.), Doc. 4042, *The Kinnear Mfg. Co. v. The R. C. Mahon Co.*

1,081,129. (See 1,074,187.)

1,107,193, 1,159,740, J. R. Bray, Process of and article for producing moving pictures; 1,179,068, same, Process of and apparatus for producing moving pictures; 1,143,542, E. Hurd, same, filed Mar. 27, 1930, D. C., S. D. N. Y., Doc. E 52/326, *Bray-Hurd Process Co., Inc., v. P. Sullivan et al.*

1,119,326, Thropp & De Laski, Machine for making or building up pneumatic tires; 1,131,173, J. E. Thropp, Bead-adjusting device; 1,721,842, P. D. Thropp, Tire-making machine, filed June 16, 1928, D. C., N. D. Ohio (E. Div.), Doc. 2606, *The De Laski & Thropp Circular Woven Tire Co. v. The Goodyear Tire & Rubber Co.*

1,131,173. (See 1,119,326.) 1,143,542. (See 1,107,193.)

1,159,740. (See 1,107,193.)

1,178,470, J. James, Switch mechanism for overhead tracks; 1,602,369, J. T. Austin, Automatic tracker and sheet regulation, included by counterclaim Feb. 27, 1930, in suit filed Jan. 3, 1929, D. C., N. D. Ohio (E. Div.), Doc. 2799, *The Cleveland Crane & Engineering Co. v. The American Monorail Co.* Bill and counterclaim dismissed Jan. 7, 1930.

1,179,068. (See 1,107,193.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., S. D. Calif. (Los Angeles), Doc. N–92–H, *The Bassick Mfg. Co. v. R. L. Smith.* Dismissed for want of prosecution Feb. 8, 1930. Doc. O–118–M, *Alemite Mfg. Corp v. Alper (Union Glass Co.)* Patent held valid Dec. 16, 1929.

1,307,734. (See 1,307,733.)

1,307,734, A. V. Gullborg, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, D. C., S. D. N. Y., Doc. E 42/179, *The Bassick Mfg. Co. v. O. P. Rogers & Co., Inc.* Consent decree for plaintiff Mar. 24, 1930.

1,379,186, J. S. Jennings, jr., Method of and means for governing explosive engines, 1,461,933, E. R. Pierce, Speed governor for internal-combustion engines, filed Mar. 26, 1930, D. C., E. D. Mich. (S. Div.), Doc. 4065, *Monarch Governor Co. v. Handy Governor Corp.* Doc. 4066, *Monarch Governor Co. v. Detroit Lubricator Co.*

1,446,247, L. de Forest, Light-controlling means; 1,466,701, same, Method of and means for controlling electric currents by and in accordance with light variations; 1,482,119, same, Means for recording and reproducing sound; 1,489,314, same, Recording sound; 1,653,155, same, Talking-moving-picture equipment; 1,693,071, same, Sound-recording attachment for motion-picture cameras; 1,716,033, same, Method of producing talking-motion-picture film and apparatus therefor; 1,695,414, same, Talking-moving-picture machine; 1,473,976, E. B. Ries, Sound-recording method; 1,607,480, same, Method of reproducing photographic sound records, D. C., Del., Doc. E 735, *General Talking Pictures Corp. et al. v. The Stanley Co. of America.* Dismissed on stipulation of counsel as to patents 1,446,247, 1,473,976, 1,482,119, 1,489,314, 1,653,155, 1,716,033, and 1,695,414, Jan. 8, 1930. (To correct error in 392 O. G., page 742.)

1,461,933. (See 1,379,186.) 1,466,701. (See 1,446,247.)

1,473,976. (See 1,446,247.) 1,475,980. (See 1,307,734.)

1,482,119. (See 1,446,247.)

1,486,883, H. P. Halliburton, Method of hydrating cement; 1,500,385, same, Method of and apparatus for mixing materials, filed Mar. 21, 1930, D. C., W. D. Okla. (Oklahoma City), Doc. E 1102, *H. P. Halliburton et al. v. Independent Oil Well Cementing Co.*

1,489,314. (See 1,446,247.) 1,500,385. (See 1,486,883.)

1,521,941, G. B. Graf, Stop signal, D. C., W. D. Okla. (Oklahoma City), Doc. E 1063, *Universal Traffic Control Co. v. The International Signal Co.* Dismissed without prejudice Nov. 4, 1929.

1,599,525, 1,693,896, H. P. Hanson, Flowerpot holder, filed Feb. 25, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9672, *H. P. Hanson et al. v. The Ideal Handle Co.*

1,602,369. (See 1,178,470). 1,607,480. (See 1,446,247.)

1,620,087, G. L. Estes, Stop signal for crossings; Des. 68,693, same, Traffic signal, D. C., W. D. Okla. (Oklahoma City), Doc. E 1069, *G. L. Estes v. Sherman Machine & Iron Works, Inc.* Dismissed Oct. 1, 1929.

1,653,155. (See 1,446,247.)

1,653,501, W. L. Fry, Seat-back slip cover, filed Mar. 24, 1930, D. C., S. D. N. Y., Doc. E 52/292, *Wil-Fry Corp. v. Edling-Murray, Inc.*

1,655,391, K. E. Peiler, Method of and apparatus for feeding molten glass, filed Mar. 25, 1930, D. C., W. D. N. Y., Doc. 199, *Hartford Empire Co. v. F. E. Reed Glass Co.*

1,685,272, 1,685,906, 1,739,490, 1,743,113, W. J. Campbell, Slicing machine, filed Feb. 18, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9670, *American Slicing Machine Co. v. The A. J. Deer Co., Inc., et al.*

1,685,906. (See 1,685,272.) 1,693,071. (See 1,446,247.)

1,693,896. (See 1,599,525.) 1,695,414. (See 1,446,247.)

1,700,407, 1,739,459, S. Hiller, High-pressure presses, filed Feb. 24, 1930, D. C., N. D. Ill (E. Div.), Doc. 9671, *S. Hiller, Inc., v. Allbright-Nell Co.*

1,716,033. (See 1,446,247.) 1,721,842. (See 1,119,326.)

1,738,581, J. Dugan, Sight-controlled gunnery system, filed Mar. 24, 1930, Ct. of Cls., Doc. —, *J. Dugan v. The United States.*

1,739,459. (See 1,700,407.) 1,739,490. (See 1,685,272.)

1,743,113. (See 1,685,272.)

Re. 17,329, J. Schmidt, Woodworking machine, filed Feb. 13, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9654, *J. Schmidt v. Altiser Elevator Mfg. Co.*

Des. 68,693. (See 1,620,087.)

Des. 73,778, J. Derk, Table scarf, C. C. A., 3d Cir., Doc. 4310, *Derk Mfg. Co.* v. *Northampton Textile Co.* Decree reversed Mar 22, 1930.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,620,205, Henry Hermani, Sheet-metal assembling and working machine, decided February 7, 1930, claim 10.

Pat. 1,702,787, R. W. Martland, jr., Leaf holder for books, decided February 26, 1930, claims 1 and 2.

Pat. 1,704,628, E. T. Rushton, Rim tool, decided March 25, 1930, claim 2.

Disclaimers

1,615,799.—*James Denaro*, Cambridge, Mass. AUTOMATIC MACHINE FOR MAKING CUP PASTRY. Patent dated January 25, 1927. Disclaimer filed April 2, 1930, by the patentee.

Hereby enters a disclaimer with respect to claim 7 of said patent of any means for loosening the baked product from the molds and cores other than a means which affects a movement of the female mold elements in parallel relation and in a line substantially at right angles to the axes of the core elements.

Please enter the disclaimer in the following words, i. e.—

In claim 7, line 6, after "comprising" place a comma and insert *devices for separating the split mold sections in parallelism and in a line substantially at right angles to the core axes.*

1,623,469.—*Frank A. Fahrenwald*, Chicago Heights, Ill. METALLURGICAL FURNACE. Patent dated April 5, 1927. Disclaimer filed April 4, 1930, by the patentee and the licensees, *American Manganese Steel Co.* and *Southern Manganese Steel Co.*

Hereby enter the following disclaimer in relation to said claim:

Petitioners disclaim from the scope of claim 6 all metallurgical furnaces except those of the metallurgical class described in which, in addition to the other elements already specified in the claim, the hollow metal rolls are made of high-temperature alloy and with end bearing portions of reduced diameter, and connected with the portions of the rolls within the furnace by means of sections of increasing inside and outside diameter.

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, Apr. 7, 1930.*

Rex-Tone Laboratories, Inc., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of United Drug Company, 48 Leon Street, Boston, Mass., to effect the cancellation of trade-mark registration No. 183,225, issued April 22, 1924, to William T. Ellison, 115 E. Liberty Street, Savannah, Ga., which registration, the assignment records of the Office show, has been transferred to Rex-Tone Laboratories, Inc., Tampa, Fla. The notice of such proceeding sent by registered mail to Rex-Tone Laboratories, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Rex-Tone Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 7, 1930.*

The Smile Company, its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of The William Boardman & Sons Co., 53–59 Edwards Street, Hartford, Conn., to effect the cancellation of trade-mark registration No. 162,022, issued November 28, 1922, to The Smile Company, 221–223 East Fourth Street, Topeka, Kans. The Office having been unable to secure satisfactory service upon The Smile Company at the said address, notice is hereby given that unless The Smile Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Interference Notice

U. S. PATENT OFFICE, *Washington, Apr. 8, 1930.*

Frank T. Brown, his assigns or legal representatives, take notice:

An interference has been declared by this Office between the applications for patent of Frank T. Brown, 114 Stimson St., Detroit, Mich., and of Joseph Lashenick, 171 McKibben St., Brooklyn, N. Y. A notice of such declaration sent to Solomon Dunn, assignee of said Brown, has been returned by the post office as undeliverable, and counsel for Brown states that he has been unable to ascertain the present whereabouts of said Brown or of his assignee. Notice is hereby given that unless said Frank T. Brown, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

CARNEGIE LIBRARY OF ATLANTA

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 22, 1930

[VOL. 393. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 288,975. PACATOMB COMPANY, San Francisco, Calif. Filed Aug. 24, 1929.

FILTER-PAC

No claim is made to the word "Filter" apart from the mark as shown in the drawing.

For Ground Diatomaceous Silica and Diatomaceous Silica in its Natural State.

Claims use since Jan. 28, 1929.

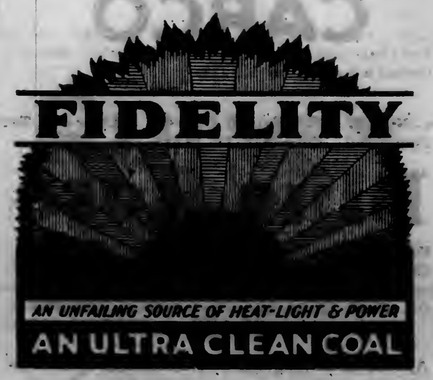
Ser. No. 294,476. FROMM BROTHERS, INC., Hamburg, Wis. Filed Jan. 7, 1930.



For Fox Pelts, Intended for Scarfs or Trimming for Women's Wear.

Claims use since Nov. 25, 1929.

Ser. No. 295,200. UNITED ELECTRIC COAL COMPANIES, Chicago, Ill. Filed Jan. 24, 1930.



The drawing is lined for red. The horizontal lining is intended for shading only and not for the color blue. No claim is made to the words on the drawing with the exception of the word "Fidelity."

For Coal.

Claims use since July 28, 1929.

Ser. No. 295,264. KEYSTONE COAL & MINING CO., Chicago, Ill. Filed Jan. 27, 1930.

HI-MOUNTAIN COAL

Exclusive use of the word "Coal" is disclaimed.

For Coal.

Claims use since June 10, 1928.

Ser. No. 295,728. DICKINSON FUEL COMPANY, Charleston, W. Va. Filed Feb. 7, 1930.

DIXLEE

For Coal.

Claims use since Jan. 14, 1930.

Ser. No. 295,859. NORTHWESTERN LEATHER COMPANY TRUST, Boston, Mass. Filed Feb. 10, 1930.

ELKET

For Leathers.
Claims use since Oct. 5, 1929.

Ser. No. 295,862. NORTHWESTERN LEATHER COMPANY TRUST, Boston, Mass. Filed Feb. 10, 1930.

SOOTAN

For Leathers.
Claims use since on or about October, 1926.

Ser. No. 297,002. CARNEGIE DOCK & FUEL COMPANY, Minneapolis, Minn. Filed Mar. 8, 1930.

CARCO

For Coal.
Claims use since July 1, 1928.

Ser. No. 297,227. WALTER BLEDSOE & COMPANY, Terre Haute, Ind. Filed Mar. 12, 1930.

Blue Rose

For Coal.
Claims use since Feb. 5, 1930.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 286,336. RAFAEL RODRIGUEZ PERDOMO, New York, N. Y. Filed June 28, 1929.

PASTOLINE

For Stain Remover.
Claims use since July 20, 1927.

Ser. No. 292,299. UNITED DRUG COMPANY, doing business as Harmony, Boston, Mass. Filed Nov. 11, 1929.

Rexolive

For Soap.
Claims use since Mar. 3, 1924.

Ser. No. 295,547. WADDELL'S REX MINERAL SOAP COMPANY, Chicago, Ill. Filed Feb. 3, 1930.

WADDELL'S REX MINERAL

The word "Mineral" is disclaimed apart from the mark shown.
For Cleansing Compound—Namely, a Soap Saver Having Incidental Water-Softening Properties.
Claims use since Dec. 28, 1929.

Ser. No. 296,397. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill. Filed Feb. 24, 1930.

1806

For Soap.
Claims use since 1895.

Ser. No. 296,476. AUGUST BRANDMEIER CORPORATION, New York, N. Y. Filed Feb. 25, 1930.

SHURDUZ

For Hand Cleanser.
Claims use since Jan. 24, 1930.

Ser. No. 296,709. JOHN ALBERT MERRIHEW, doing business as Prosperity Sales Service, New Orleans, La. Filed Mar. 1, 1930.

PINECO

For Detergent Dry-Cleaning Soap.
Claims use since Feb. 19, 1930.

CLASS 5

Adhesives

Ser. No. 296,552. SOCIETE INDUSTRIELLE DU NEOGUM, Marseille, France. Filed Feb. 26, 1930.

NÉOGUM

For Vegetable Glues and Adhesive Pastes.
Claims use since Jan. 8, 1926.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 297,285. SWIFT AND COMPANY, Chicago, Ill. Filed Mar. 13, 1930.

PLIASIZE

For Glue.
Claims use since Mar. 1, 1930.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 260,882. THE FAY METAL PATCH COMPANY, Cleveland, Ohio. Filed Jan. 30, 1928.

FISHOILENE

For a Liquid Preservative for Steel and Wrought Iron Against the Action of Rust and Electrolysis.
Claims use since November, 1927.

Ser. No. 275,827. JOSE CAMPDERA, Mexico, Mexico. Filed Nov. 15, 1928.

REGIS

For Dentifrice, Tooth Wash, Tooth Paste, and Perfumes.
Claims use since March, 1928.

Ser. No. 280,344. NETTIE OSBORN, Joplin, Mo. Filed Mar. 6, 1929.

Nettie Osborn's

The signature shown in the drawing is the facsimile of applicant's signature.
For Liniment for Goiters.
Claims use since Jan. 9, 1929.

Ser. No. 286,513. E. J. RUTHERFORD CO., INC., Philadelphia, Pa. Filed July 2, 1929.



FRANKLIN

The portrait forming a part of this trade-mark is that of Benjamin Franklin, deceased.
For Washing Soda.
Claims use since Jan. 1, 1929.

Ser. No. 291,741. RICHARDSON ROBINSON DRUG COMPANY, Pauls Valley, Okla. Filed Oct. 29, 1929.

Robinson's High Balls

For Stomach Medicine in the Form of a Tablet.
Claims use since about 1908.

Ser. No. 291,748. TRAGER MANUFACTURING COMPANY, INC., Scranton, Pa. Filed Oct. 29, 1929. Under 10-year proviso.

DR. TRAGER'S HARTSHORN

For Ammonia.
Claims use since 1889.

Ser. No. 291,909. WILLIAM COOPER & NEPHEWS, INCORPORATED, Chicago, Ill. Filed Nov. 2, 1929.

PULVEX

For Flea and Lice Preparation for Animals.
Claims use since February, 1925.

Ser. No. 292,490. "DEGEWOP" GESELLSCHAFT WISSENSCHAFTLICHER ORGANPRAEPARATE A. G., Berlin, Germany. Filed Nov. 16, 1929.

Ovowop

For Medicinal Preparation for the Treatment of Female Diseases.
Claims use since October, 1925.

Ser. No. 292,520. THE CHATTANOOGA MEDICINE COMPANY, Chattanooga, Tenn. Filed Nov. 18, 1929.

CARDOSIPTEC

For Medicinal Douche Preparation.
Claims use since Nov. 7, 1929.

Ser. No. 293,041. BERNARD GINSBERG, doing business as Oleomangan Pharmacal Co., New York, N. Y. Filed Nov. 29, 1929.

OLEOMANGAN

For Emulsion of Olive Oil, Petroleum Oil, and Peptonates of Iron and Manganese.
Claims use since March, 1921.

Ser. No. 293,291. PIETRO ROCA, doing business as R. O. C. A. Co., Astoria, N. Y. Filed Dec. 5, 1929.



The shading in the drawing indicates the colors yellow and blue, these colors being used on printed advertising matter and stationery. The word "Phone" is disclaimed apart from the mark as shown.

For Germicide Antiseptic Preparation in Paste or Tablet or Disc Form for Air Disinfection and Purification, and Especially for Use in the Interior of Telephone Mouthpieces.

Claims use since Nov. 11, 1929.

Ser. No. 293,733. MANUEL SOSA LOPEZ, doing business as M. Sosa Lopez & Co., New York, N. Y. Filed Dec. 16, 1929.



No claim is made to the words "El Major, Alcoholado, De America" apart from the trade-mark shown in the drawing.

For Bay Rum.

Claims use since Mar. 30, 1924.

Ser. No. 294,430. LUCILLES' PRODUCTS CO., Minneapolis, Minn., assignors to Lucilles' Products Co., Minneapolis, Minn., a Firm composed of Fred Ranney and Ernest F. Lowe. Filed Jan. 6, 1930.

Lucilles'
Gloss-O-Silk Rinse

No claim is made to the words "Silk" and "Rinse" apart from the mark as shown.

For Silk Rinse.

Claims use since Apr. 15, 1929.

Ser. No. 294,564. B. T. BABBITT, INC., New York, N. Y. Filed Jan. 9, 1930. Under 10-year proviso.

B.T.BABBITT'S
CONCENTRATED
LYE

For Lye.

Claims use since 1880.

Ser. No. 294,566. B. T. BABBITT, INC., New York, N. Y. Filed Jan. 9, 1930. Under 10-year proviso.

DAISY
GRANULATED
LYE

For Lye.

Claims use since Feb. 1, 1885.

Ser. No. 294,964. JOHN C. DE KEYZER, doing business as The Burbon Laboratories, Spokane, Wash. Filed Jan. 20, 1930.

BURBON

For Liniments for Nerve and Rheumatic Afflictions.

Claims use since July 1, 1924.

Ser. No. 295,018. CHEMISCHE UND BIOLOGISCHE LABORATORIEN DR. BOERLAGE G. M. B. H., Wiesbaden, Germany. Filed Jan. 21, 1930.

EMIQUEL

For Perfumes.

Claims use since April, 1929.

Ser. No. 295,655. CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Feb. 6, 1930.



The lining on the drawing indicates the colors green, red, and gold.

For Baking Powder and Salt.

Claims use since Mar. 26, 1918.

Ser. No. 295,695. PINAUD, INCORPORATED, New York, N. Y. Filed Feb. 6, 1930.

BITTER SWEET

For Perfumes.

Claims use since Jan. 10, 1930.

Ser. No. 295,784. DAVID A. DAVIDSON, doing business as Hantise Lab., New York, N. Y. Filed Feb. 8, 1930.

HANTISE

For Face Powder, Face Rouge, Lip Rouge, Lip Stick, Eyelash Darkener or Beautifier, Eyebrow Pencil, Vanishing Cream, Cleansing Cream, Cold Cream, Skin and Tissue Cream, Almond Cream, Lemon Cream, Facial Cream, Astringent for Cleansing Face, Liquid Cleansing Cream, Hairdressings, Hair Shampoos, Dusting Powder, Talcum Powder, Brilliantine, Liquid Face Powder, Bleaching Cream, Perfumes, Toilet Water, Hair Tonic, Bath Powder, and Bath Salts.

Claims use since June 1, 1923.

Ser. No. 295,884. ROBERT ALEXANDER BACHMANN, doing business as The Sanitube Company, Newport, R. I. Filed Feb. 11, 1930.

SENTRY

For Medicinal Ointment, for Use as a Prophylactic Against Social Diseases.

Claims use since Feb. 4, 1930.

Ser. No. 295,887. CHURCH & DWIGHT CO. INC., New York, N. Y. Filed Feb. 11, 1930.



No claim being made to the words "Washing Soda" and "Brand" apart from the mark shown in the drawing.

For Washing Soda, a Powder Compound Consisting of Bicarbonate of Soda and Carbonate of Soda.

Claims use since Oct. 12, 1909.

Ser. No. 296,124. LADISLAUS HOZO, New York, N. Y. Filed Feb. 17, 1930.



The drawing is lined to represent shading only. No claim is made to the representation of the goods apart from the mark shown on the drawing.

For Mouse and Rat Exterminating Food.

Claims use since Feb. 1, 1930.

Ser. No. 296,187. J. HENRY HEALY, Philadelphia, Pa. Filed Feb. 18, 1930.



The representation of the container of the goods is disclaimed.

For Antiseptics.

Claims use since Jan. 6, 1930.

Ser. No. 296,251. JOHN A. ASH, doing business as Pyorrhea Stop Company, Savannah, Ga. Filed Feb. 20, 1930.

PS
PI-REA STOP

The lining on the drawing is for shading only. The exclusive right to use the words "Pyorrhea Stop" misspelled in the drawing "Pi-Rea Stop" is disclaimed separate and apart from the mark as shown.
For Dentifrice and Preparation for Treating Pyorrhea.
Claims use since January, 1929.

Ser. No. 296,367. THE STORY SALES CORPORATION, Syracuse, N. Y. Filed Feb. 21, 1930.

JERDIS

For Disinfectant and Deodorant.
Claims use since Jan. 10, 1930.

Ser. No. 296,442. LEONARD QUARTETTI, doing business as Esper Products Co., Chicago, Ill. Filed Feb. 24, 1930.

ESPER
Wafers

No claim is made to the exclusive use of the word "Wafers" apart from the mark as shown.
For Candy Laxatives.
Claims use since Feb. 20, 1930.

Ser. No. 296,473. F. GILSON BEIRNE, Philadelphia, Pa. Filed Feb. 25, 1930.

SLIK

For Liquid Preparation Used as a Hair Remover.
Claims use since Dec. 3, 1929.

Ser. No. 296,522. IRVING HAGLER, doing business as Beneat Sales Company, New York, N. Y. Filed Feb. 26, 1930.

GLORIA
DE
PUERTO RICO

For Alcoholic Tonic for the Skin and Hair.
Claims use since April, 1924.

Ser. No. 296,531. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Feb. 26, 1930.

Country Club



For Lye, Borax, Washing Soda, Talcum Powder, Tooth Paste, Bluing, Baking Powder, Insect Powder, and Salt.
Claims use since July 1, 1929.

Ser. No. 296,544. NORTH AMERICAN DYE CORPORATION, Mount Vernon, N. Y. Filed Feb. 26, 1930.

Dytint

For Preparation for Removing Colors from All Fabrics and Stains from White Goods.
Claims use since on or about Feb. 14, 1930.

Ser. No. 296,602. KALI MANUFACTURING CO., Philadelphia, Pa. Filed Feb. 27, 1930.

Hydroxcene

For Conditioning Solution for Treating Silk and Artificial Silk.
Claims use since Oct. 10, 1928.

Ser. No. 296,609. S. PFEIFFER MFG. CO., doing business as Home Drug Co., St. Louis, Mo. Filed Feb. 27, 1930.



For Various Medicinal Preparations—Namely, Corn Remover, Earache Oil, Toothache Preparation, Castor Oil, Eyewash, Gargle, Preparation for the Relief of Bronchitis, Coughs, and Minor Asthmatic Conditions, Preparation Recommended for Deep-Seated or Chronic Coughs and Pulmonary Disorders, Larkspur Lotion, Liniment for the Relief of Neuralgic and Muscular Pains, and Preparations for Disorders of the Stomach and Liver.
Claims use since October, 1927.

Ser. No. 296,617. THE UNDERTAKERS SUPPLY COMPANY, Chicago, Ill. Filed Feb. 27, 1930.

Célébre Vitae

For Preparation for Use on the Human Dead for Preventing Razor Burns, Protecting the Skin Against Dehydration, and as a Basis for Producing a Natural Appearance, Being Slightly Colored.
Claims use since on or about Mar. 1, 1926.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 296,640. M. M. FLERON & SON, INC., doing business as Bercy Laboratories, Trenton, N. J. Filed Feb. 28, 1930.

Monarch

For Hair Tonics.
Claims use since July 6, 1913.

Ser. No. 296,642. HAROLD H. FRIES, doing business as Fries Bros., New York, N. Y. Filed Feb. 28, 1930.

ASEPTOFORM

For Germicide and Fungicide.
Claims use since Oct. 22, 1929.

Ser. No. 296,694. DEDENBACH CHEMICAL COMPANY, Detroit, Mich. Filed Mar. 1, 1930.

DEXAID

For Eczema Medicine.
Claims use since Feb. 25, 1930.

Ser. No. 296,710. MOORE & LUNN, Falmouth, Mass. Filed Mar. 1, 1930.

DEL--TAS

For Fungicide and Insecticide Preparations for Garden Plants.
Claims use since Feb. 7, 1930.

Ser. No. 296,720. ROWAN DUVE SMITH, doing business as Growers Relief Co., Canfield, Ohio. Filed Mar. 1. 1930.

INSECTOFIX

For Insecticide to be Used in Killing Plant Insects.
Claims use since Jan. 17, 1930.

Ser. No. 296,761. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Mar. 3, 1930.

GUAIOLAN

For Preparation for External Application in the Treatment of Sore Throat, Lung and Throat Congestion.
Claims use since Jan. 2, 1928.

Ser. No. 296,787. THE UNDERTAKERS SUPPLY COMPANY, Chicago, Ill. Filed Mar. 3, 1930.

PENETROL

For Embalming Fluid.
Claims use since on or about Mar. 1, 1918.

Ser. No. 296,819. THE PYRIDIUM CORPORATION, Nepera Park, N. Y. Filed Mar. 4, 1930.

Pyri - Pyridium

For Medicines for Use in Germ Infections, and as an Antiseptic.
Claims use since Feb. 4, 1930.

Ser. No. 296,877. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Mar. 5, 1930.

Dis-Mis

For Deodorant in Powder Form for Personal Hygiene.
Claims use since Jan. 29, 1930.

Ser. No. 296,925. G. S. ROBINS & COMPANY, St. Louis, Mo. Filed Mar. 6, 1930.

CLOROTEX

For Liquid Bleach.
Claims use since May 13, 1927.

Ser. No. 297,031. PENNSYLVANIA SALT MANUFACTURING COMPANY, Philadelphia, Pa. Filed Mar. 8, 1930.

DOH-TONE

For Chemical Compounds Used in the Milling and Baking Industries for Improving the Strength and Color of Flour.
Claims use since September, 1929.

Ser. No. 297,035. SPOONER, INC., New York, N. Y. Filed Mar. 8, 1930.

Southern Girl

For Face Powders, Talcum Powders, Perfumes, Toilet Waters, Rouge, Lip Sticks, Sachet Powders, Facial Creams, and Skin and Hair Lotions.
Claims use since about Jan. 2, 1929.

Ser. No. 297,039. BENJAMIN ZEIGERMAN, doing business as Mann Chemical Co., Chester, Pa. Filed Mar. 8, 1930.

HEMORINE

For Hemorrhoidal Suppositories.
Claims use since Mar. 4, 1930.

Ser. No. 297,040. BENJAMIN ZEIGERMAN, doing business as Mann Chemical Co., Chester, Pa. Filed Mar. 8, 1930.

MODERINE

For Vaginal Suppositories.
Claims use since Mar. 4, 1930.

Ser. No. 297,080. IMPERIAL OIL & GAS PRODUCTS COMPANY, Pittsburgh, Pa. Filed Mar. 10, 1930.

SUPREME

For Carbon Black.
Claims use since on or about Jan. 28, 1930.

Ser. No. 297,129. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed Mar. 11, 1930.

APESTRIN

For Preparation Containing a Principle with a Specific Influence on Sexual Maturity and the Ripening of the Graafian Follicles.
Claims use since Feb. 28, 1930.

Ser. No. 297,147. LOUIS PHILIPPE, New York, N. Y. Filed Mar. 11, 1930.

SUNNY BOY

For Antiseptic Lip Stick.
Claims use since Jan. 3, 1930.

Ser. No. 297,150. SAMET & BUCHANAN, Philadelphia, Pa. Filed Mar. 11, 1930.

ANTHEL

For Medicinal Tablet for the Relief of Pain.
Claims use since Sept. 1, 1929.

Ser. No. 297,179. EASTMAN KODAK COMPANY, Rochester, N. Y. Filed Mar. 12, 1930.

PERIDAK

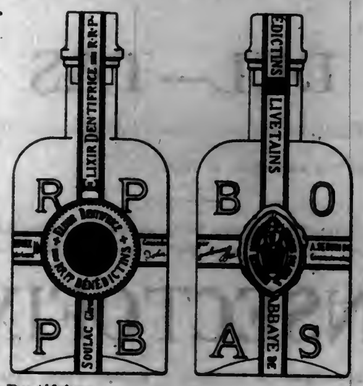
For Chemical Outfits for Use in Photo-Engraving and Lithography, and Also for the Following Items Included in Said Chemical Outfits: Staging Paint, Staging Ink, Glycerine Hypo Solution, Etching Solution, Hypo Solution, Ferricyanide Solution, Paint Solvent, and Fixing Bath.
Claims use since Jan. 28, 1930.

Ser. No. 297,209. SILMO CHEMICAL COMPANY, INC., Vineland, N. J. Filed Mar. 12, 1930.

SILMOSTEROL

For Cod-Liver Oil Containing a Vitamin Concentrate Such as Ergosterol, a Vitamin D Concentrate.
Claims use since Dec. 10, 1929.

Ser. No. 297,210. SOCIETE ANONYME MAISON A. SEGUIN, Bordeaux, France. Filed Mar. 12, 1930. Under 10-year proviso.



For Dentifrices.
Claims use since Oct. 5, 1878.

Ser. No. 297,211. SOCIETE ANONYME MAISON A. SEGUIN, Bordeaux, France. Filed Mar. 12, 1930. Under 10-year proviso.

DENTIFRICES DES RR.PP. BÉNÉDICTINS DE L'ABBAYE DE SOULAC

For Dentifrices.
Claims use since Oct. 5, 1878.

Ser. No. 297,266. MORGAN & COMPANY, Hermon, N. Y. Filed Mar. 13, 1930.



For Liquid Preparation for Use as An Inhalant in Treating Catarrh, Frontal Headache, Hay Fever, and Colds.
Claims use since October, 1929.

CLASS 7

Cordage

Ser. No. 296,986. WILLIAM L. ROCHESTER, New York, N. Y. Filed Mar. 7, 1930.



The trade-mark consists in respectively coloring green, red, and blue three adjacent threads, yarns, or strands, or wires forming component strain-bearing parts of the rope or cable and appearing at intervals on the surface of the rope or cable in substantially parallel relation. No claim is made to the representation of the rope or cable per se.
For Hemp, Wire, Manila Rope and Cable.
Claims use since February, 1929.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 296,237. REISS-PREMIER PIPE CO., West New York, N. J. Filed Feb. 19, 1930.



For Smokers' Pipes, Cigar Holders, and Cigarette Holders.
Claims use since Feb. 18, 1919.

Ser. No. 296,238. REISS-PREMIER PIPE CO., West New York, N. J. Filed Feb. 19, 1930.



For Pipes, Cigar and Cigarette Holders, Tobacco Pouches, Cigarette Paper and Pipe Cases.
Claims use since 1881.

CLASS 12

Construction Materials

Ser. No. 296,298. TIFFANY ENAMEL BRICK COMPANY, Momence, Ill. Filed Feb. 20, 1930. Under 10-year proviso.

TIFFANY

For Bricks.
Claims use since Apr. 7, 1886.

Ser. No. 296,851. ASBESTOS LIMITED INC., New York, N. Y. Filed Mar. 5, 1930.

New Era

For Asbestos Board.
Claims use since Sept. 1, 1929.

Ser. No. 297,356. BOTFIELD REFRACTORIES COMPANY, Philadelphia, Pa. Filed Mar. 15, 1930.

ADACHROME

For Refractory Material (Cements).
Claims use since on or about Dec. 7, 1926.

Ser. No. 297,357. BOTFIELD REFRACTORIES COMPANY. Philadelphia, Pa. Filed Mar. 15, 1930.

ADAPATCH

For Refractory Material (Cements).
Claims use since on or about Feb. 1, 1925.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 283,759. WILLIAM SCHMIDT, Newark, N. J. Filed May 9, 1929.

COFFELATOR

For Coffee-Making Utensils.
Claims use since May 1, 1928.

Ser. No. 295,440. CARL PILZ, Los Angeles, Calif. Filed Jan. 31, 1930.

C P

For Floor Screed Clips.
Claims use since Apr. 1, 1929.

Ser. No. 295,590. WHEELING STEEL CORPORATION, Wheeling, W. Va. Filed Feb. 4, 1930.



The trade-mark consists of a red stripe disposed longitudinally on the metal pipe, no claim being made to the representation of the metal pipe.
For Metal Pipe.
Claims use since Nov. 9, 1929.

Ser. No. 295,898. HALL ELECTRIC HEATING COMPANY, INC., Philadelphia, Pa. Filed Feb. 11, 1930.

Hallmark HEATING

The trade-mark is formed in red, as indicated by the lines in the drawing. The word "Heating" is disclaimed apart from the mark shown in the drawing.
For Temperature-Control Valves.
Claims use since May 18, 1929.

Ser. No. 296,216. J. H. BALMER CO., Newark, N. J. Filed Feb. 19, 1930.

DAINTEE

For China Bathroom Fixtures—Namely, Roll-Paper Holders, Soap Dishes, Combination Tumbler and Toothbrush Holder, Hooks, Towel Racks, and Towel Bars.
Claims use since June 28, 1929.

Ser. No. 296,285. THE NEWELL MFG. CO., INC., Ogdensburg, N. Y. Filed Feb. 20, 1930.

NuGold

For Metal Curtain Rods.
Claims use since on or about Jan. 29, 1930.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 295,660. CYCLOPS STEEL COMPANY, INC., Titusville, Pa. Filed Feb. 6, 1930.

ALAMO

For Nitriding Steel.
Claims use since Feb. 7, 1929.

CLASS 16

Paints and Painters' Materials

Ser. No. 278,939. M. GRUMBACHER, New York, N. Y. Filed Feb. 6, 1929.

SYMPHONIC

For Paint Boxes Containing Artists' Paints.
Claims use since May 1, 1928.

Ser. No. 287,105. NAPOLEON O. BASFORD, doing business as United Chemical Company, Akron, Ohio. Filed July 15, 1929.



The word "Brand" is disclaimed apart from the mark shown.
For Ready-Mixed Paints, Floor Waxes, Furniture and Floor Polish, Polishing Liquids and Polishing Pastes for Automobiles and Furniture and for Painted, Varnished, or Enameled Surfaces.
Claims use since about February, 1927.

Ser. No. 296,326. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 21, 1930.

DU PONT

DU - LUX

For Wood Stains, Fillers, Dry Colors—Namely, Dry Aniline Wood-Stain Powders, Prepared Shellac, Varnishes, Thinners, Paint Enamels, Lacquers.
Claims use since Aug. 9, 1928.

Ser. No. 296,368. MILTON D. SWARTZ, doing business as Farboil Paint Company, Baltimore, Md. Filed Feb. 21, 1930.

FARBOIL

For Paints in Paste and Ready-Mixed Form, Waterproofing Paints, Paint Driers, Paint Enamels, Lacquers, Stains; Painters' Oils for Coloring, Reducing, and Staining; Paint, Varnish, and Lacquer Removers; and Priming Fillers in Liquid and Paste Form.
Claims use since April, 1919.

Ser. No. 296,369. MILTON D. SWARTZ, doing business as Farboil Paint Company, Baltimore, Md. Filed Feb. 21, 1930.



The drawing is lined to indicate that the word "Farboil" appears upon a red background, that the surrounding field is a dark blue, and below the dark blue field there is a tan or orange field.
For Paints in Paste and Ready-Mixed Form, Waterproofing Paints, Paint Driers, Paint Enamels, Lacquers, Varnishes, Stains; Painters' Oils for Coloring, Reducing, and Staining; Paint, Varnish, and Lacquer Removers; and Priming Fillers in Liquid and Paste Form.
Claims use since April, 1919.

Ser. No. 297,262. ALFRED S. METZNER, doing business as Luki-Find Paint Remover Company, Tampa, Fla. Filed Mar. 13, 1930.

LUKI-FIND

For Liquid Paint Remover and Furniture Polish.
Claims use since Nov. 15, 1929.

CLASS 17

Tobacco Products

Ser. No. 296,837. VILLAZON & CO., Tampa, Fla. Filed Mar. 4, 1930.



The two portraits of the women in "Villa de Cuba" are merely coined pictures of no individual.
For Cigars.
Claims use since May 12, 1916.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 288,574. STANDARD MOTOR TRUCK COMPANY, Detroit, Mich. Filed Aug. 15, 1929.

Fisher Mercantile Express

For Motor Trucks and Chassis.
Claims use since December, 1926.

Ser. No. 289,455. EMBLEM MANUFACTURING COMPANY, Angola, N. Y. Filed Sept. 7, 1929.

DANDY

For Bicycles.
Claims use since June 18, 1929.

Ser. No. 296,496. STARLIGHTERS, INC., Philadelphia, Pa. Filed Feb. 25, 1930.



For Aeroplanes and Structural Parts Thereof.
Claims use since December, 1927.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 296,364. ALBERT C. SORENSEN, Chicago, Ill. Filed Feb. 21, 1930.

IXL

For Electric Storage Batteries.
Claims use since Nov. 4, 1929.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 279,279. HUNT, HELM, FERRIS & CO., Harvard, Ill. Filed Feb. 18, 1929.



The representation or picture of the boy appearing on the drawing is fanciful, and the representation of the swing is disclaimed apart from the mark shown in the drawing.
For Airplane Swings for Children.
Claims use since Nov. 1, 1927.

Ser. No. 295,998. HOWARD BROOKS, Weybridge, England. Filed Feb. 14, 1930.

DUROGUT

For Tennis and the Like Rackets for Playing Games.
Claims use since Sept. 28, 1929.

Ser. No. 295,999. HOWARD BROOKS, Weybridge, England. Filed Feb. 14, 1930.

ALBATROSS

For Tennis and the Like Rackets for Playing Games.
Claims use since Sept. 30, 1929.

Ser. No. 297,130. HILLERICH & BRADSBY CO., Louisville, Ky. Filed Mar. 11, 1930.

40-M.O.

For Baseball Bats.
Claims use since Jan. 31, 1930.

Ser. No. 297,131. HILLERICH & BRADSBY CO., Louisville, Ky. Filed Mar. 11, 1930.

Melvin Ott

The trade-mark is the facsimile signature of Melvin Ott.
For Baseball Bats.
Claims use since Aug. 5, 1927.

Ser. No. 297,132. HILLERICH & BRADSBY CO., Louisville, Ky. Filed Mar. 11, 1930.

40-A.S.

For Baseball Bats.
Claims use since Jan. 31, 1930.

Ser. No. 297,134. HILLERICH & BRADSBY CO., Louisville, Ky. Filed Mar. 11, 1930.

Jimmie Foxx

The trade-mark is the facsimile signature of Jimmie FOXX.
For Baseball Bats.
Claims use since June 11, 1926.

Ser. No. 297,135. HILLERICH & BRADSBY CO., Louisville, Ky. Filed Mar. 11, 1930.

40-J.F.

For Baseball Bats.
Claims use since Jan. 31, 1930.

Ser. No. 297,225. THE AVERILL CO. INC., New York, N. Y. Filed Mar. 13, 1930.

AMOS 'N' ANDY

For Dolls.
Claims use since Mar. 6, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 280,058. ALBERT P. DE SANNO, Jr., doing business as A. P. de Sanno & Son, Philadelphia, Pa. Filed Feb. 28, 1929.

RADIAC

For Cut-Off and Grinding Machines Utilizing Abrasive Wheels.
Claims use since September, 1926.

Ser. No. 289,592. THE PRATT & WHITNEY AIRCRAFT COMPANY, Hartford, Conn. Filed Sept. 10, 1929.



No claim is made to the words "Dependable Engines" apart from the mark shown. The lining of the drawing indicates two different shades of blue, the color within the ring being darker than that within the inner circle.
For Internal-Combustion Engines for Aircraft and Their Parts.
Claims use since April, 1926.

Ser. No. 294,415. THE CARBORUNDUM COMPANY, Niagara Falls, N. Y. Filed Jan 6, 1930.

ALOXITE

For Grinding Machines and Parts Thereof, Polishing Machines and Parts Thereof, Rubbing Machines and Parts Thereof, Light-Duty Sanding Machines and Parts Thereof, Flexible Pads Built Up of Flexible and Compressible Material Such as Felt and/or Rubber Reinforced with Discs to Support Abrasive Discs Which are for Use on the Foregoing Machines, and Machine Attachments for the Foregoing Machines, and Comprising Attachments for Holding Abrasive Cones, Wheel-Mounting Attachments, Chuck Attachments for Drills, Drum Attachments for Abrasive Belts, and Sanding-Disc Attachments for Sanding Machines.
Claims use since June, 1929.

Ser. No. 294,723. THE HARTFORD STEEL BALL COMPANY, Hartford, Conn. Filed Jan. 13, 1930.



The words "Universally Dependable" are disclaimed apart from the mark shown.
For Metal Balls for Bearings and Other Purposes.
Claims use since Apr. 30, 1928.

Ser. No. 297,252. THE JEFFERY MANUFACTURING CO., Columbus, Ohio. Filed Mar. 13, 1930.

Supermal

For Elevating and Conveying Chains and Elevating and Conveying Buckets.
Claims use since on or about Jan. 1, 1930.

CLASS 24

Laundry Appliances and Machines

Ser. No. 295,116. CREO-DIPT COMPANY, INC., North Tonawanda, N. Y. Filed Jan. 23, 1930.

HANDI-IRONING

The word "Ironing" is disclaimed apart from the other features of the mark.
For Built-In Ironing Boards.
Claims use since Dec. 16, 1929.

Ser. No. 295,662. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 6, 1930.

FINAST

For Washboards.
Claims use since Oct. 26, 1926.

Ser. No. 295,736. HORTON MANUFACTURING COMPANY, Fort Wayne, Ind. Filed Feb. 7, 1930.

Do-All

For Ironing Machines.
Claims use since Feb. 16, 1923.

Ser. No. 295,985. VORCLONE CORPORATION, Milwaukee, Wis. Filed Feb. 13, 1930.

VORCLONE

For Drying Tumblers, Drying Cabinets, Centrifugal Extractors, Dry-Cleaning Washers, Metal Laundry Washers and Wood Laundry Washers.
Claims use since December, 1916.

CLASS 25

Locks and Safes

Ser. No. 292,640. STANDARD LOCK AND MEASURE CORPORATION, New York, N. Y. Filed Nov. 20, 1929.

Insuralok

For Locks for Tanks for Containing Gasoline and Other Liquids.
Claims use since Oct. 28, 1929.

Ser. No. 295,444. FRANK SUTTON, Pittsburgh, Pa. Filed Jan. 31, 1930.

SECURITY SUTTON BOX

Applicant disclaims the use of the words "Security" and "Box" which appear in the drawing apart from the mark shown in the drawing.

For Lock Boxes for Valuables.

Claims use since Dec. 1, 1929.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 271,788. VITAGLASS CORPORATION, New York, N. Y. Filed Aug. 30, 1928.

VITA

For Fluoroscopes and Nongraduated Test Tubes.

Claims use since Aug. 17, 1928.

Ser. No. 288,998. FRIED. KRUPP AKTIENGESELLSCHAFT, Essen, Germany. Filed Aug. 24, 1929.

Widia

For Points for Compasses and Calipers, End Measuring Rods, Metal Test Tubes, and Gauges—Namely, Screw Gauges, Slide Gauges, Snap Gauges, Depth Gauges, Hole Gauges, Plug Gauges, Thread Gauges, Plate Gauges, Wire Gauges, External and Internal Cylindrical Gauges, External and Internal Taper Gauges, Ball Gauges, and Saddle Gauges.

Claims use since Jan. 1, 1926.

Ser. No. 295,554. ELIAS BRUCKER, New York, N. Y. Filed Feb. 4, 1930.

BENNY THE BEAR

For Motion-Picture Films Showing Animated Cartoons.

Claims use since November, 1929.

CLASS 27

Horological Instruments

Ser. No. 296,833. GEMEX COMPANY, Newark, N. J. Filed Feb. 21, 1930.

RUGBY

For Clocks, Watches, Watchcases, Watch Springs, Watch Wheels, Watch Dials, and Watch Hands.

Claims use since Dec. 30, 1929.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 294,582. THE C. A. KIGER COMPANY, Kansas City, Mo. Filed Jan. 9, 1930.

VIRGIN

For Cut Precious Stones.

Claims use since January, 1922.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 295,844. HALL CHINA CO., East Liverpool, Ohio. Filed Feb. 10, 1930.

HALL

For Fireproof China Teapots, Coffeepots, Sugar Bowls, Cream Pitchers, Beanpots, Shirred-Egg Dishes, Pudding Pans, Bakers, Casseroles, Spittoons, Ice Bowls, Stock Jars, Bain Marie Jars, Steam-Table Insets, Soda-Fountain Jars.

Claims use since October, 1903.

CLASS 31

Filters and Refrigerators

Ser. No. 272,351. RHINELANDER REFRIGERATOR CO., Rhinelander, Wis. Filed Sept. 18, 1928.



For Refrigerators.

Claims use since July 24, 1928.

CLASS 32

Furniture and Upholstery

Ser. No. 289,956. THE ARMOR METAL PRODUCTS CO., Cincinnati, Ohio. Filed Sept. 19, 1929.



For Household and Office Furniture—Namely, Benches, Cabinets, Cupboards, Drawers, Partitions Used for Dividing Up Space into Rooms in Offices and Factories, Racks, Stands, Tables, Bench Legs, Bench Drawers, and Bench Tops.

Claims use since Sept. 17, 1927.

Ser. No. 292,035. FLORAL CITY FURN. CO., Monroe, Mich. Filed Nov. 5, 1929.

"LAZY BOY"

For Chairs for Household and Office Use.

Claims use since January, 1929.

Ser. No. 296,647. HOWE FOLDING FURNITURE, INC., New York, N. Y. Filed Feb. 28, 1930.



All wording shown on the drawing except the word "Howe" is hereby disclaimed apart from the mark as shown in the drawing.

For Articles of Furniture—Namely, Tables, Tea Wagons, Hat and Coat Racks, Chairs, and Stands.

Claims use since on or about July, 1928.

CLASS 33

Glassware

Ser. No. 294,976. K. K. CRYSTAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 20, 1930.

PERFIT

For Watch Crystals.

Claims use since Sept. 3, 1929.

Ser. No. 294,977. K. K. CRYSTAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 20, 1930.

CRYSTOLENS

For Watch Crystals.

Claims use since Sept. 3, 1929.

Ser. No. 294,978. K. K. CRYSTAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 20, 1930.

Masterfit

For Watch Crystals.

Claims use since Sept. 3, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 282,866. LAMPEN- UND METALLWARENFABRIKEN R. DITNER GEBRÜDER BRÜNNER A. G., Vienna, Austria. Filed Apr. 28, 1929.

Maxim

For Lamps, Lanterns, Cooking and Heating Stoves and Ranges Using Liquid Fuel, as Well as Parts Thereof, Such as Incandescent Mantles and Wicks.

Claims use since June, 1927.

Ser. No. 294,060. DELCO-LIGHT COMPANY, Dayton, Ohio. Filed Dec. 26, 1929.

DELCOGAS

For Apparatus for Generating and Supplying Gas.
Claims use since June 1, 1929.

Ser. No. 296,933. TENNESSEE STOVE WORKS, Chattanooga, Tenn. Filed Mar. 6, 1930.

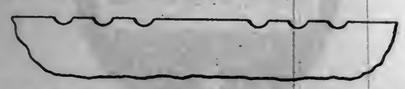
SUPER MAID

For Gas Ranges.
Claims use since Jan. 4, 1930.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 278,277. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed Jan. 22, 1929.



No claim is made to the representation of the packing. The trade-mark consists of notches arbitrarily formed in the edge of the material, said notches being arranged in groups, the center-to-center distance between notches in the several groups being less than the center-to-center distance between the last notch in one group and the nearest notch in the adjacent group, the several groups being so placed as to lie within the field of vision of the observer.
For Gaskets, Washers, and Packing of Cork or Cork Composition in the Sheet Especially Adapted for Packing.
Claims use since Oct. 24, 1928.

Ser. No. 295,165. HEWITT-GUTTA PERCHA RUBBER CORPORATION, Buffalo, N. Y. Filed Jan. 24, 1930.

MUNICIPAL

For Fire Hose.
Claims use since August, 1919.

CLASS 37

Paper and Stationery

Ser. No. 294,690. FALKO W. SCHILLING, Manchester, N. H. Filed Jan. 11, 1930.

Am Ma Pha

For Indexed and Information Cards for Use in a Medicament and Medical Filing-Cabinet System.
Claims use since Dec. 20, 1929.

Ser. No. 294,872. EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed Jan. 17, 1930.

EATON'S HIGHLAND VELLUM

No right to the exclusive use of the word "Vellum" is claimed except as a part of the mark shown.
For Papeteries, Correspondence Cards, Writing Tablets, Correspondence and Mailing Envelopes, and Writing Paper, Including Ream and Pound Goods.
Claims use since July 16, 1929, on papeteries and correspondence cards; and since July 17, 1929, on writing tablets, correspondence and mailing envelopes, and writing paper.

Ser. No. 295,109. PHILLIPS B. THOMPSON, doing business as M M Importing Co., New York, N. Y. Filed Jan. 21, 1930.

"P.T.O."

For Score Cards Used in the Game of Bridge.
Claims use since Mar. 1, 1922.

Ser. No. 295,502. CITY CORDAGE & PAPER CORP., New York, N. Y. Filed Feb. 3, 1930.



No claim is made to the words "Trade Mark" and "Superior to All, Kraft" apart from the mark shown on the drawing.
For Wrapping Paper.
Claims use since Jan. 27, 1930.

Ser. No. 295,715. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Filed Feb. 6, 1930.

Class Days

For Loose-Leaf and Ring Binders.
Claims use since Dec. 28, 1929.

CARNEGIE LIBRARY OF ATLANTA

Ser. No. 295,716. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Filed Feb. 6, 1930.

Endura

For Loose-Leaf and Ring Binders.
Claims use since Dec. 28, 1929.

Ser. No. 295,717. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Filed Feb. 6, 1930.

SchoolMaster

For Loose-Leaf and Ring Binders.
Claims use since Dec. 28, 1929.

Ser. No. 295,792. FRANK H. HOONAN, North Bergen, N. J. Filed Feb. 8, 1930.

ARSWORTH
REPORT SYSTEM

The words "Report" and "System" are disclaimed apart from other features of the trade-mark.
For Printed Business Blanks, Forms, Strips, and Cards, Particularly Adapted for Sales Records and Reports.
Claims use since on or about Nov. 25, 1929.

Ser. No. 296,037. WALGREEN CO., Chicago, Ill. Filed Feb. 14, 1930.

HUDSON BAY TISSUE

The word "Tissue" does not form a part of the registration sought apart from the mark shown in the drawing.
For Toilet Paper.
Claims use since Feb. 3, 1930.

Ser. No. 296,565. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Feb. 27, 1930.

Colorart

For Crayons.
Claims use since June, 1928.

Ser. No. 296,648. INTERNATIONAL VISIBLE SYSTEMS CORPORATION, Cincinnati, Ohio. Filed Feb. 28, 1930.

HERCULITE

For Record Books and Binders.
Claims use since on or about Feb. 6, 1930

Ser. No. 296,849. AMERICAN PAPER EXPORTS, INC., New York, N. Y. Filed Mar. 5, 1930.

OPACO

For Ledger, Bond, Millboard, Writing, Bristol, Blotting, Printing, Cover, Thin Typewriter, Wrapping, Mimeograph, and Tissue Paper, Correspondence and Mailing Envelopes and Papeteries.
Claims use since Feb. 10, 1930.

Ser. No. 296,856. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Mar. 5, 1930.

MAESTRO
ITALIANO

For Printing and Announcement Paper.
Claims use since August, 1929.

Ser. No. 296,897. BEACH & ARTHUR, INC., Indianapolis, Ind. Filed Mar. 6, 1930.

Cinderella

For Paper Napkins and Tablecloths.
Claims use since Jan. 11, 1930.

CLASS 38

Prints and Publications

Ser. No. 275,058. KING CARD COMPANY, Philadelphia, Pa. Filed Nov. 9, 1928.



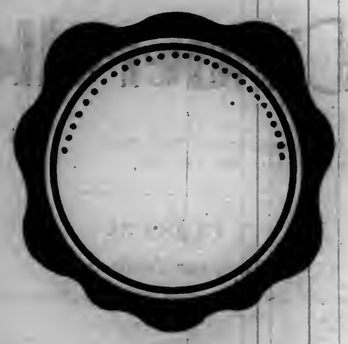
The words "The Box Beautiful" are hereby disclaimed apart from the mark shown on the drawing.
For Engraved Cards, Such as Everyday Cards, Personal Cards, Birthday Cards, and Christmas Cards Put Up in Fancy Boxes or Containers.
Claims use since Aug. 1, 1928.

Ser. No. 275,059. KING CARD COMPANY, Philadelphia, Pa. Filed Nov. 9, 1928.

THE GIFT BOX BEAUTIFUL

The words "The Gift Box Beautiful" are hereby disclaimed apart from the mark shown on the drawing.
For Engraved Cards, Such as Everyday Cards, Personal Cards, Birthday Cards, and Christmas Cards Put Up in Fancy Boxes or Containers.
Claims use since Aug. 1, 1928.

Ser. No. 275,060. KING CARD COMPANY, Philadelphia, Pa. Filed Nov. 9, 1928.



For Engraved Cards, Such as Everyday Cards, Personal Cards, Birthday Cards, and Christmas Cards Put Up in Fancy Boxes.
Claims use since Aug. 1, 1928.

Ser. No. 282,220. ALFRED J. ASGIS, New York, N. Y., assignor to Stomatologic Reference Library, Inc., New York, N. Y. Filed Apr. 11, 1929.

The AMERICAN JOURNAL of STOMATOLOGY

For Quarterly Publication.
Claims use since Jan. 15, 1929.

Ser. No. 286,981. ARTHUR A. DEARING, Bloomfield, N. J. Filed July 12, 1929.

Swift & Sure



Dearing

For Photographs.
Claims use since December, 1926.

Ser. No. 289,521. THE JOURNAL COMPANY, Chicago, Ill., now, by change of name, Chicago Times Company. Filed Sept. 9, 1929.

DAILY ILLUSTRATED TIMES
CHICAGO'S PICTURE NEWSPAPER

The subtitle "Chicago's Picture Newspaper" appearing on the drawing submitted herewith, being descriptive, is hereby disclaimed.
For Newspapers.
Claims use since Sept. 3, 1929.

Ser. No. 294,239. PHOTOPLAY PUBLISHING COMPANY, Chicago, Ill. Filed Dec. 30, 1929.



The trade-mark comprises three broad color bands, red, white, and blue, on the backbone of the magazine.
For Magazines.
Claims use since Sept. 10, 1927.

Ser. No. 294,285. EARLE RAY THOMASON, Kearney, Mo. Filed Dec. 28, 1929.



The words "The, Calendar, Past, Present," and "Future" are disclaimed apart from the mark as shown.
For Printed Matter—Namely, Pamphlets and Calendar Booklets.
Claims use since Nov. 7, 1929.

Ser. No. 295,334. EASTON PUBLISHING COMPANY, Easton, Pa. Filed Jan. 29, 1930.

EASTON EXPRESS

For Newspapers or Periodicals.
Claims use since Nov. 5, 1855.

Ser. No. 295,725. CITIZENS RADIO SERVICE BUREAU, Chicago, Ill. Filed Feb. 7, 1930.

CITIZENS Radio Call Book Magazine TECHNICAL REVIEW

For Technical Summary of the Radio Industry in Magazine Form.
Claims use since Dec. 9, 1929.

Ser. No. 296,186. THE HEALTH-O QUALITY PRODUCTS CO., Cincinnati, Ohio. Filed Feb. 18, 1930.

Health-O-Gram

For Office Bulletins or House Organs Published at Irregular Intervals.
Claims use since July, 1927.

Ser. No. 296,857. CHICAGO ROTOPRINT COMPANY, Chicago, Ill. Filed Mar. 5, 1930.

Home Pictorial

For Publication in Magazine Form.
Claims use since on or about Feb. 26, 1930.

Ser. No. 296,884. BEATRICE M. F. ROGERS, doing business as The Eureka System of Child Education, New York, N. Y. Filed Mar. 5, 1930.

The EUREKA SYSTEM *of* CHILD EDUCATION

For Books and Pamphlets for Child Education Published from Time to Time.
Claims use since 1916.

Ser. No. 296,930. STANDARD RATE & DATA SERVICE, Chicago, Ill. Filed Mar. 6, 1930.

STANDARD RATE & DATA SERVICE

For Periodical Publication Issued Monthly and Also at Irregular Shorter Intervals.
Claims use since July 1, 1919.

Ser. No. 297,118. AEROVOX WIRELESS CORPORATION, Brooklyn, N. Y. Filed Mar. 11, 1930.

The AEROVOX Research Worker

For Trade Publication.
Claims use since Dec. 25, 1927.

Ser. No. 297,155. JAMES E. SITTERLEY, New York, N. Y. Filed Mar. 11, 1930.

The Guide Post

For Monthly Publication.
Claims use since Mar. 1, 1930.

Ser. No. 297,168. APOSTLESHIP OF PRAYER, New York, N. Y. Filed Mar. 12, 1930.

The MESSENGER of the SACRED HEART

For Magazines.
Claims use since on or about 1866.

Ser. No. 297,176. CONSOLIDATED PRESS ASSOCIATION, Washington, D. C. Filed Mar. 12, 1930.

The Long and Short of It

For Newspaper Articles Published from Day to Day.
Claims use since Dec. 2, 1929.

Ser. No. 297,268. PAGE-MADDEN COMPANY, INC., Brooklyn, N. Y. Filed Mar. 13, 1930.

THE GUIDE POST

For Publication Issued from Time to Time.
Claims use since March, 1928.

CLASS 39

Clothing

Ser. No. 285,213. MILLER-SMITH HOSIERY MILLS, Chattanooga, Tenn. Filed June 7, 1929.



For Silk, Cotton, and Silk and Cotton Hosiery.
Claims use since March, 1924.

Ser. No. 287,851. RUDOLPH STULZ CO., St. Louis, Mo. Filed July 29, 1929.

Style Manor

For Men's and Boys' Wearing Apparel—Namely, Dress, Negligee, and Work Shirts, Hose, Pajamas, Mufflers, Neckties and Cravats, Underwear in one and Two Piece Garments of Knit and Textile Material, Hats and Caps, Garters, Belts for Outer Wear, and Suspenders.
Claims use since July 23, 1929.

Ser. No. 288,305. ABRAHAM SHOCKET, doing business as Star Shoe Repairing Company, Boston, Mass. Filed Aug. 10, 1929.

FASHIONABLE STOUTS

The right to the exclusive use of the word "Fashionable" apart from the mark shown is hereby disclaimed.
For Shoes Made of Leather, Fabric, and Combinations of the Same.
Claims use since October, 1927.

Ser. No. 288,720. JOE PARAFOTI, doing business as Parafoti Shoe Repairing Co., New York, N. Y. Filed Aug. 19, 1929.



PARAFOTI

Applicant makes no claim to the word "Parafoti" apart from the mark shown.
For Leather Shoes, Soles, Heels.
Claims use since May, 1928.

Ser. No. 292,122. PERRY & COMPANY, Philadelphia, Pa. Filed Nov. 7, 1929.

"Perispecial"

For Men's and Boys' Suits and Overcoats.
Claims use since Oct. 7, 1929.

Ser. No. 292,253. CHOCK-HOROWITZ COMPANY, New York, N. Y. Filed Nov. 11, 1929.

REST RITE

For Men's and Boys' Pajamas.
Claims use since January, 1924.

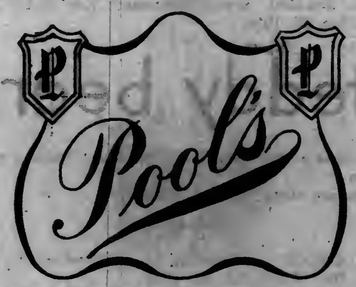
Ser. No. 292,831. I. SCHNEIERSON & SON, INC., New York, N. Y. Filed Nov. 23, 1929.



LOOMCRAFT LONJERIE

The applicant disclaims the name "Lonjerie" apart from the mark as shown on the drawing.
For Ladies' Chemises, Princess Slips, Bloomers, Step-Ins, Nightgowns, Pajamas, and Negligees of a Textile Fabric.
Claims use since July 1, 1928.

Ser. No. 293,344. POOL SALES COMPANY, Sherman, Tex. Filed Dec. 6, 1929.



For Men's Woolen Suits, Overcoats, and Hats.
Claims use since Aug. 15, 1929.

Ser. No. 294,740. ROCK RUN MILLS, Goshen, Ind. Filed Jan. 13, 1930.

CUDDLE ROBE

The word "Robe" is hereby disclaimed apart from the mark as shown on the drawing.
For Baglike Leg Covers.
Claims use since Dec. 28, 1929.

Ser. No. 294,840. ASSOCIATED APPAREL INDUSTRIES, INC., Chicago, Ill. Filed Jan. 16, 1930.



For Corsets; Combinations, Consisting of a One-Piece Garment Combining Brassière and Corset or Girdle; Step-Ins, Consisting of a Girdle or Corset Made Entirely Closed or Partly Closed on Either Side; Bandeaus, Brassières, and Women's Underwear of Knitted and Textile Fabrics.
Claims use since August, 1929.

Ser. No. 295,275. RICH & CIRI, New York, N. Y. Filed Jan. 27, 1930.

THE DUNBROOK

The applicant disclaims the right to the exclusive use of the word "The" separately and apart from the rest of the mark as shown in the drawing.
For Women's Clothing—Namely, Coats, Suits, Dresses, and Raincoats.
Claims use since Nov. 1, 1920.

Ser. No. 295,348. HARRY RAGOVIN, New York, N. Y. Filed Jan. 29, 1930.

—H.R.—
CREPE "JOLEE"

No claim is made to the word "Crepe" apart from the mark shown on the drawing.
For Vests, Chemise, Step-Ins, Slips, Petticoats, and Bloomers.
Claims use since June, 1927.

Ser. No. 295,749. D. M. OBERMAN MFG. CO., Jefferson City, Mo., and New York, N. Y. Filed Feb. 7, 1930.

WESCO
FORTY 49 NINER
JEANS

The word "Jeans" is disclaimed apart from other features of the trade-mark.
For Men's Work Trousers and Men's Work Shirts.
Claims use since December, 1928.

Ser. No. 296,072. MCGREEVEY, WERRING & HOWELL, INC., New York, N. Y. Filed Feb. 15, 1930.

Llewellyn Modes

No claim is made to the word "Modes" apart from the mark shown on the drawing.
For Ladies' Coats, Suits, and Dresses.
Claims use since Jan. 1, 1930.

Ser. No. 296,081. SCHULTE-UNITED, INC., New York, N. Y. Filed Feb. 15, 1930.

Maud ARCH SUPPORT Miller

No claim is made to the right to the exclusive use of the phrase "Arch Support" apart from the mark shown.
For Leather Shoes.
Claims use since Jan. 12, 1930.

Ser. No. 296,116. LOUIS GATTI, Brooklyn, N. Y. Filed Feb. 17, 1930.

WALKER

For Rubber Heels.
Claims use since about Jan. 5, 1930.

Ser. No. 296,154. TROY WHOLESALE CORPORATION, Troy, N. Y. Filed Feb. 17, 1930.

TROJAN

For Hosiery, Sweaters, and Underwear, All for Men, Women, and Children.
Claims use since Jan. 1, 1922.

Ser. No. 296,179. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Feb. 18, 1930.

Lady Endicott

For Hosiery.
Claims use since about Jan. 25, 1930.

Ser. No. 296,415. FLASHY FROCKS, INC., New York, N. Y. Filed Feb. 24, 1930.

SUNNYDEL

For Ladies' Dresses.
Claims use since Sept. 3, 1929.

Ser. No. 296,454. SUPREME DRESS CO., New York, N. Y. Filed Feb. 24, 1930.

"Supreme"

For Women's and Misses' Waists, Gowns, Dresses, Frocks.
Claims use since Feb. 1, 1922.

Ser. No. 296,485. OSCAR DOJAN, Temple, Pa. Filed Feb. 25, 1930.

TEMPLE HOSIERY

No claim is made to the word "Hosiery" apart from the mark shown on the drawing.
For Hosiery.
Claims use since Mar. 1, 1926.

Ser. No. 296,498. STERN BROTHERS, New York, N. Y. Filed Feb. 25, 1930.

teddy bear

For Coats of Fur Pile Fabric for Men, Women, and/or Children.
Claims use since Sept. 17, 1929.

Ser. No. 296,521. L. GREIF & BRO., INCORPORATED, Baltimore, Md. Filed Feb. 26, 1930.

Summerspun

For Topcoats, Overcoats, Coats, Vests, Trousers, and Knickerbockers for Men, Youths, and Boys.
Claims use since Dec. 23, 1929.

Ser. No. 296,628. BORDEAUX CLOTHING CO., INC., New York, N. Y. Filed Feb. 28, 1930.



For Men's Outer Clothing—Namely, Topcoats, Overcoats, Sport Jackets, Coats, Vests, Hats, and Berets; and Ladies' Sport Coats, Hats, and Berets.
Claims use since Jan. 15, 1930.

Ser. No. 296,674. ST. LOUIS SHOE MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 28, 1930.

ARCH·PROP

For Shoes Composed of Leather, Fabrics, and Combinations of These Materials.
Claims use since Jan. 15, 1927.

Ser. No. 296,766. NU-CRAFT HOSIERY MILLS, INC., Mohnton, Pa. Filed Mar. 3, 1930.



For Hosiery.
Claims use since Aug. 1, 1928.

Ser. No. 296,775. SALZER & BAUMRING, Cincinnati, Ohio. Filed Mar. 3, 1930.

Parkway

For Hosiery.
Claims use since Dec. 5, 1929.

Ser. No. 296,802. PHIL DRESSNER & CO., INC., New York, N. Y. Filed Mar. 4, 1930.

Zephyr Felts

The word "Felts" is disclaimed except in association with the other features of the mark.
For Ladies' and Children's Hats.
Claims use since Feb 24, 1930.

Ser. No. 296,808. HERSCHEL, GRUSHOW & GOLDBERG, INC., New York, N. Y. Filed Mar. 4, 1930.

Sea Shell

For Women's and Misses' Dresses.
Claims use since Feb. 15, 1930.

Ser. No. 296,923. RINK'S CLOAK HOUSE, INC., Indianapolis, Ind. Filed Mar. 6. 1930.

Lady Evelyn

For Hosiery.
Claims use since October, 1929.

Ser. No. 296,942. AMERICAN HOSIERY COMPANY, New Britain, Conn. Filed Mar. 7, 1930.

USHIRT

For Knitted and Woven Goods Comprising Undershirts and Bathing Shirts for Men, Women, and Children, of Various Materials, Comprising Cashmere, Cashmere Wool, Wool, Merino, Pure Linen, Pure Silk, Silk Mixed, Cotton, Lisle Thread, and Rayon or Artificial Silk, and Mixtures of the Same.
Claims use since Jan. 31, 1930.

Ser. No. 296,943. S. D. ARROWOOD & CO. INC., New York, N. Y. Filed Mar. 7, 1930.

SILFAB

For Hosiery.
Claims use since Feb. 15, 1930.

Ser. No. 296,970. S. LIEBOVITZ & SONS, INC., New York, N. Y. Filed Mar. 7, 1930.

Ensdown

For Negligee Shirts for Men, Youths, and Boys.
Claims use since Dec. 19, 1929.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 295,633. NEW YORK MERCHANDISE CO. INC., New York. N. Y. Filed Feb. 5, 1930.

BESTMAID

For Combs Made of Precious Metal.
Claims use since Mar 15, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 287,404. FOREMOST FABRICS CORPORATION, New York, N. Y. Filed July 20, 1929.

Panne-Glow-Satin

No rights are asserted to the exclusive use of the words "Panne" and "Satin" apart from the trade-mark as shown in the drawing.
For Silk Piece Goods.
Claims use since June 22, 1929.

Ser. No. 293,545. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Dec. 11, 1929.

Endra

For Woolen Piece Goods.
Claims use since Oct. 15, 1929.

Ser. No. 294,072. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Dec. 26, 1929.

Agfatravis

For Knitted, Netted, and Textile Fabrics of Artificial Silk.
Claims use since about Nov. 12, 1929.

Ser. No. 294,659. ASHE MANUFACTURING CORP., Rensselaer and New York, N. Y. Filed Jan. 11, 1930.

WOLAMA

For Knitted Fabrics, Component Elements of Which are Wool and Alpaca or Llama.
Claims use since Jan. 1, 1927.

Ser. No. 294,812. M. LOWENSTEIN & SONS, INC., New York, N. Y. Filed Jan. 15, 1930.

ROCK HILL

For Cotton, Rayons, and Silk Piece Goods, Cotton and Silk Mixtures, Cotton and Rayon Mixtures, and Rayon and Silk Mixtures.
Claims use since Dec. 26, 1929.

Ser. No. 296,224. BERTRAM GOLDBERG, Johnstown, N. Y. Filed Feb. 19, 1930.

TRIZE

For Warped Knit Fabrics Made on Tricot and Milanese Machines from Pure Jap Raw Silk and Combined with Tubize Rayon or Other Synthetic Yarns.
Claims use since Feb. 1, 1930.

Ser. No. 296,497. STERN BROTHERS, New York, N. Y. Filed Feb. 25, 1930.

"sterntex"

For Sheets, Pillowcases, Tablecloths, Napkins, Doilies, Bedspreads, and Table Scarfs, All Made of Cotton, Linen, and/or Silk.
Claims use since Dec. 3, 1929.

Ser. No. 296,587. DUPLAN SILK CORPORATION, New York, N. Y. Filed Feb. 27, 1930.

DU-PLAN

For Piece Goods Made of Silk, Rayon, Wool, Cotton, or Mixtures Thereof.
Claims use since Jan. 30, 1930.

Ser. No. 296,616. THE SWIFT MANUFACTURING COMPANY, Columbus, Ga. Filed Feb. 27, 1930.

Roundup

For Cotton Piece Goods.
Claims use since October, 1926.

Ser. No. 297,144. NATIONAL GARY CORPORATION, New York N. Y. Filed Mar. 11, 1930.

BEBE

For Hair Nets.
Claims use since about Jan. 15, 1930.

Ser. No. 297,257. J. B. MARTIN COMPANY, Norwich, Conn. Filed Mar. 13, 1930.

ALMIRA

For Pile Fabric Piece Goods.
Claims use since Jan. 21, 1930.

Ser. No. 297,295. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 14, 1930.

Galiak

For Pile Fabrics in the Piece.
Claims use since Mar. 5, 1930.

CARNEGIE LIBRARY OF ATLANTA

CLASS 43

Thread and Yarn

Ser. No. 284,273. N. V. NEDERLANDSCHE KUNSTZIJDEFABRIEK, Arnhem, Netherlands. Filed May 18, 1929.



For Artificial Silk Yarns.
Claims use since Mar. 25, 1929.

Ser. No. 297,054. A. W. ARCHER CO., INC., New York, N. Y. Filed Mar. 10, 1930.

PARAMOUNT

For Yarn and Machine Thread.
Claims use since June 1, 1929.

Ser. No. 297,253. A. M. JOHNSON MILLS, INCORPORATED, Dover, Del. Filed Mar. 13, 1930.



Applicant hereby disclaims exclusive appropriation as a part of trade-mark of the words "Beauty" and "Strength" appearing thereon as well as the representation thereon of the cone of thread.
For Threads and Yarns.
Claims use since Mar. 1, 1930.

Ser. No. 297,263. CLARENCE L. MEYERS, INC., Philadelphia, Pa. Filed Mar. 13, 1930.

INNERWELT

For Cotton Yarn.
Claims use since Nov. 25, 1929.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 295,352. AMERICAN YVETTE COMPANY, INC., New York, N. Y. Filed Jan. 30, 1930.

Artisto

For Hair-Waving Machines and Elements Involving Heater Units, Shields, and Clamps Applied in Conjunction with Said Machines.
Claims use since Jan. 3, 1930.

Ser. No. 295,573. THE PINNACLE MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 4, 1930.

DRY-LOX

For Electrical Hair Driers.
Claims use since Jan. 25, 1930.

Ser. No. 296,234. WILLIAM MANDEL, doing business as The Porcedent Denture Company, New York, N. Y. Filed Feb. 19, 1930.

PORCEDENT

For Dental Plate Material.
Claims use since Dec. 1, 1929.

Ser. No. 296,403. DUREX PRODUCTS INC., New York, N. Y. Filed Feb. 24, 1930.

DUREX PRODUCTS INC.

For Pessaries.
Claims use since March, 1928.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 295,386. JACOB S. POLEFSKY, New York, N. Y. Filed Jan. 30, 1930.



The lining shown in the drawing is shaded to indicate the color red.
For Nonalcoholic, Noncereal, Maltless Beverages and Flavoring Extracts and Syrups Therefor.
Claims use since Dec. 15, 1929.

Ser. No. 295,574. JACOB S. POLEFSKY, New York, N. Y. Filed Feb. 4, 1930.



The drawing is lined for the color red and the stippling indicates shades of gray.

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Flavoring Extracts and Syrups for Making the Same.

Claims use since September, 1929.

Ser. No. 296,290. JACOB S. POLEFSKY, New York, N. Y. Filed Feb. 20, 1930.

Burb-N-Age



For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Flavoring Extracts and Syrups for Making the Same.

Claims use since Jan. 12, 1930.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 253,170. MONTE VISTA CITRUS ASSOCIATION, Riverside, Calif. Filed Aug. 8, 1927.

GOLDEN RULE



For Fresh Citrus Fruits—Namely, Oranges, Lemons, Grapefruit, and Tangerines.

Claims use since September/October, 1895.

Ser. No. 268,853. DONELSON AND POSTON, doing business as Better Maid Products Co., Memphis, Tenn. Filed June 29, 1928.

BETTERMAID

For Canned Fruits, Canned Vegetables, Canned Fish, Canned Meats—Namely, Tripe, Sandwich Spread, Potted Meat, Vienna Sausage, Cooked Brains, and Cooked Compressed Corned Beef; Coffee, Vinegar, Macaroni, Dried Fruits, Fruit Preserves, Jellies, Food-Flavoring Extracts, Spices, Peanut Butter, Canned Evaporated Milk, Canned Berries, Canned and Bottled Olives; Horse, Mule, Stock, and Dairy Feeds; Rice.

Claims use since June 17, 1923.

Ser. No. 269,460. HALPEN, GREEN & Co., Philadelphia, Pa. Filed July 12, 1928.

APOLLO



For Canned Fruits and Vegetables, Canned Shrimp, Fruit Preserves, Tomato Catsup, Coffee, Pickles, and Jelly.

Claims use since Jan. 1, 1885.

Ser. No. 275,056. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

IGA

For Bulk Candy, Peanut Butter, Strawberry Jelly, Dried Vegetables, Canned Prunes, Dried Prunes, Jelly Powder, Nut Oleomargarine, Sugar, Tomato Soup, Macaroni, Eggs, Canned Strawberries, Canned Apple Sauce, Miscellaneous Candy, Crackers, Cake, Chewing Gum, Corn Flakes, Strawberry Preserves, Corn Starch, Olives, Rice, Chocolate Cream Candy, Evaporated Milk, Mayonnaise, Chocolates, Lemons, Cornmeal, Dried Apricots, Oatmeal, Lard, Spaghetti, Catsup, Canned Shrimp, Molasses, Vinegar, Codfish, Tea, Butter, Pepper, Cheese, Canned Spinach, Olive Oil, Hard Candy, Celery, Cookies.

Claims use since Sept. 1, 1927.

Ser. No. 278,121. BEER & DAVIES, New York, N. Y. Filed Jan. 18, 1929.



No claim is made to the wording except "Crescent" and "Beer & Davies" apart from the mark as shown on the drawing.

For Eggs.

Claims use since Jan. 1, 1928.

Ser. No. 290,866. JOHN WOODGER & SONS LIMITED, Victoria Embankment, London, and Great Yarmouth, England. Filed Oct. 9, 1929.



The lining on the drawing indicates the color red.

For Kippered Herrings (Herrings Which Have Been Cured by Smoking).

Claims use since about Mar. 7, 1923.

Ser. No. 291,069. JAMES H. SHAW, Oakley, Calif. Filed Oct. 14, 1929.



The trade-mark consists of the word "Shawpack" within a circle associated with a horizontal blue band above and spaced from the same.

For Fresh Fruits and Vegetables—Namely, Grapes and Tomatoes.

Claims use since Aug. 1, 1912.

Ser. No. 292,824. THE HILLS BROTHERS COMPANY, New York, N. Y. Filed Nov. 12, 1929.

RICO

For Canned Grapefruit.

Claims use since Nov. 6, 1929.

Ser. No. 293,704. WURM BROTHERS COMPANY, Chicago, Ill. Filed Dec. 14, 1929.

My Preference

For Canned Fruits, Canned Vegetables and Canned Fish, Dried Fruit; Mustard, Vegetable Relish, Pickles, Chili Sauce, Catsup, Spices, Salted Nuts, Nuts in Their Natural State, and Fruit Preserves.

Claims use since Dec. 2, 1929.

Ser. No. 293,974. LLOYD E. JACKSON, doing business as Jackson Products Co., Dayton, Ohio. Filed Dec. 21, 1929.



The drawing is lined to indicate the colors red and yellow. No claim is made to the slogan "You Can Buy No Better Make Nor Make No Better Buy" or to the words "Dayton, Ohio," apart from the mark shown in the drawing.

For Potato Salad, Corn Meal Mush, Prepared Horse-Radish, Mixed Vegetable Relish, Mixed Sweet Pickle Relish, Crisp Sweet Pickle Chips, Potato Chips, Sweet, Sour and Dill Pickles, and Cottage Cheese.

Claims use since Apr. 15, 1928.

Ser. No. 294,142. CALIFORNIA MACARONI COMPANY, San Francisco, Calif. Filed Dec. 28, 1929.

ROYAL



For Spaghetti, Vermicelli, and Macaroni.

Claims use since Oct. 1, 1887.

Ser. No. 295,645. STANDARD BRANDS INCORPORATED, Dover, Del., Cincinnati, Ohio, and New York, N. Y. Filed Feb. 5, 1930.



The lines shown in the drawing are not intended to be restrictively indicative of any particular color.

For Yeast.

Clams use since Dec. 7, 1929.

Ser. No. 295,679. KOHRS PACKING COMPANY, Davenport, Iowa. Filed Feb. 6, 1930. Under 10-year proviso.

CROWN

For Lard, Sausage, and Cottage Butts.
Claims use since about Apr. 1, 1880.

Ser. No. 295,888. THE COLORADO MILLING & ELEVATOR CO., doing business as Hungarian Flour Mills, Denver, Colo. Filed Feb. 11, 1930.

HARVEST QUEEN

For Wheat Flour.
Claims use since 1873.

Ser. No. 296,055. FIRST NATIONAL STORES INC., Boston and Somerville, Mass. Filed Feb. 15, 1930.

KYBO

For Coffee.
Claims use since Jan. 10, 1930.

Ser. No. 296,347. FRANK HUIBER, Denver, Colo. Filed Feb. 21, 1930.

House Guest

For Cake.
Claims use since on or about Feb. 7, 1930.

Ser. No. 296,402. DURAND COMPANY, doing business as H. N. Fish Co., Cambridge, Mass. Filed Feb. 24, 1930

HANDY-TRAY

For Candy.
Claims use since Feb. 11, 1930.

Ser. No. 296,520. THE GOUDEY GUM CO., Boston, Mass. Filed Feb. 26, 1930.

Oh Gee, Nu-Gum

The descriptive notation "Nu-Gum" is disclaimed except in connection with the mark, the application for registration of which is hereby made.
For Chewing Gum.
Claims use since Feb. 11, 1930.

Ser. No. 296,542. NATIONAL OIL PRODUCTS COMPANY Harrison, N. J. Filed Feb. 26, 1930.

Norco-XX

For Poultry and Stock Foods Containing a Vitamin Preparation Obtained from Cod-Liver Oil.
Claims use since May 10, 1929.

Ser. No. 296,722. J. WILBUR WARNER, Frederick, Md. Filed Mar. 1, 1930.

Natural Bridge Candy

The descriptive word "Candy" shown in the drawing is disclaimed.
For Chocolates and Bonbons.
Claims use since Oct. 26, 1929.

Ser. No. 296,763. JOHN MORRELL & CO., Ottumwa, Iowa. Filed Mar. 3, 1930.

JIFFY

For Canned Ham.
Claims use since Feb. 15, 1930.

Ser. No. 297,014. ITALIAN IMPORTING COMPANY, Spokane, Wash. Filed Mar. 8, 1930.

COMMELLINI



For Olive Oil.
Claims use since Jan. 5, 1930.

Ser. No. 297,058. COMMANDER MILLING COMPANY, Minneapolis, Minn. Filed Mar. 10, 1930.

COMMANDANTE

For Wheat Flour.
Claims use since Sept. 27, 1929.

Ser. No. 297,146. PABST CORPORATION, doing business as Europa Malt Syrup Co., Milwaukee, Wis. Filed Mar. 11, 1930.

Lieb' Frau
GOOD WIFE

For Malt Syrup.
Claims use since Feb. 8, 1930.

Ser. No. 297,154. SHENANDOAH MILLING COMPANY, INC., Shenandoah, Va. Filed Mar. 11, 1930.

BLUE RIDGE

For Horse, Cattle, Chicken, and Hog Feeds.
Claims use since 1917.

Ser. No. 297,204. THE NEW ERA MILLING COMPANY, Arkansas City, Kans. Filed Mar. 12, 1930.

BELFLOUR

For Wheat Flour.
Claims use since Jan. 27, 1915.

Ser. No. 297,317. THE LARROWE MILLING COMPANY, Detroit, Mich. Filed Mar. 14, 1930.



For Wheat Flour.
Claims use since about May 31, 1929.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 293,835. HYDE MANUFACTURING COMPANY, Southbridge, Mass. Filed Dec. 18, 1929. Under section 5b, act of 1905, as amended in 1920.

I. P. HYDE

For Trestles and Tables for Paper Hangers and Paste Boards.
Claims use since Aug. 22, 1928.

Ser. No. 295,593. HERBERT & COMPANY, Detroit, Mich. Filed Feb. 1, 1930.

ADAPTO ALL METAL UNIT BUILT SIGNS

No claim is made by applicant to the words "Signs" and "All Metal Unit Built" apart from the trade-mark as shown.
For Metal Display and Advertising Signs with Removable and Interchangeable Letters; Directory Boards for Public Buildings, Office Buildings, Banks, and the Like; and Name Plates for Use by Officials on Office Doors, Desks, and the Like.
Claims use since Feb. 1, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 22, 1930

269,820. LADIES' LEATHER, FABRIC, AND COMBINATION LEATHER AND FABRIC SHOES. DUANE SHOE COMPANY, INC., New York, N. Y.
Filed November 22, 1929. Serial No. 292,721. PUBLISHED FEBRUARY 11, 1930. Class 39.

269,821. CERTAIN NAMED WEARING APPAREL. HOOK-TAILOR, Los Angeles, Calif.
Filed November 23, 1929. Serial No. 292,807. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,822. FABRIC AND LEATHER SHOES. JAMES SELVA, New York, N. Y.
Filed November 23, 1929. Serial No. 292,834. PUBLISHED FEBRUARY 11, 1930. Class 39.

269,823. LEATHER BOOTS AND SHOES FOR LADIES. NEENAH SHOE COMPANY, Menasha, Wis.
Filed November 25, 1929. Serial No. 292,891. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,824. BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, FABRIC, RUBBER, OR COMBINATIONS THEREOF. APPLEBAUM-MAUTNER COMPANY, Champaign, Ill.
Filed November 27, 1929. Serial No. 292,965. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,825. BOOTS, SHOES, AND SLIPPERS CONSTRUCTED OF LEATHER, RUBBER, AND/OR FABRIC OR ANY COMBINATION THEREOF. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed November 27, 1929. Serial No. 292,987. PUBLISHED FEBRUARY 11, 1930. Class 39.

269,826. POWER-PROPELLED BOATS. DWIGHT LUMBER COMPANY, River Rouge, Mich.
Filed June 8, 1929. Serial No. 285,257. PUBLISHED FEBRUARY 11, 1930. Class 19.

269,827. POWER-PROPELLED BOATS. DWIGHT LUMBER COMPANY, River Rouge, Mich.
Filed June 8, 1929. Serial No. 285,258. PUBLISHED FEBRUARY 11, 1930. Class 19.

269,828. MECHANICAL REFRIGERATING APPARATUS. LEONARD REFRIGERATOR COMPANY, Grand Rapids, Mich.
Filed June 14, 1929. Serial No. 285,568. PUBLISHED FEBRUARY 11, 1930. Class 31.

269,829. PREPARED AND READY-TO-SERVE SANDWICHES. SIDNEY L. STAMPER, St. Paul, Minn.
Filed June 27, 1929. Serial No. 286,281. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,830. MECHANICAL REFRIGERATOR UNITS. MORRISON MANUFACTURING COMPANY, Chicago, Ill.
Filed July 8, 1929. Serial No. 286,789. PUBLISHED FEBRUARY 11, 1930. Class 31.

269,831. CHEESE. JUSTIN COUDERC, doing business as "Societe Mondiale des Caves de Roquefort," Roquefort, France.
Filed August 22, 1929. Serial No. 288,846. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,832. CANDY. GOLDEN NUGGET SWEETS, San Francisco, Calif.
Filed September 24, 1929. Serial No. 290,177. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,833. REELS AND PARTS THEREOF FOR CABLE, WIRE, WIRE ROPE, AND THE LIKE. HENRY B. NEWHALL CORPORATION, Garwood, N. J.
Filed September 24, 1929. Serial No. 290,190. PUBLISHED FEBRUARY 11, 1930. Class 2.

269,834. SHOTGUNS, PISTOLS, REVOLVERS, RIFLES, AND PARTS THEREOF. A. F. STOEGER, INC., New York, N. Y.
Filed October 5, 1929. Serial No. 290,722. PUBLISHED FEBRUARY 11, 1930. Class 9.

269,835. PRESSURE-REGULATING VALVES. MAY OIL BURNER CORPORATION, Baltimore, Md.
Filed November 2, 1929. Serial No. 291,923. PUBLISHED FEBRUARY 11, 1930. Class 13.

269,836. FIRECRACKERS AND FIREWORKS. JOIO M. DA ROCHA, doing business as J. M. da Rocha Co., San Francisco, Calif.
Filed November 20, 1929. Serial No. 292,617. PUBLISHED FEBRUARY 11, 1930. Class 9.

269,837. FIRECRACKERS AND FIREWORKS. JOIO M. DA ROCHA, doing business as J. M. da Rocha Co., San Francisco, Calif.
Filed November 20, 1929. Serial No. 292,618. PUBLISHED FEBRUARY 11, 1930. Class 9.

269,838. FLYING MACHINES. KEYSTONE AIRCRAFT CORPORATION, Bristol, Pa.
Filed November 23, 1929. Serial No. 292,809. PUBLISHED FEBRUARY 11, 1930. Class 19.

269,839. POWDER PUFFS, PARTICULARLY COMPACT POWDER PUFFS. CLYDE L. WILSON, San Francisco, Calif.
Filed November 25, 1929. Serial No. 292,918. PUBLISHED FEBRUARY 11, 1930. Class 29.

269,840. COLUMNS IN A DAILY PUBLICATION. HARRY A. DEFERRARI, Washington, D. C.
Filed December 12, 1929. Serial No. 293,573. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,841. LETTER PAPER AND RECORD FORMS. AMERICAN SALES BOOK COMPANY, LIMITED, Toronto, Ontario, Canada, and Niagara Falls and Elmira, N. Y.
Filed December 12, 1929. Serial No. 293,566. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,842. MAPS AND PHOTOGRAPHS. FAIRCHILD AVIATION CORP., New York, N. Y.
Filed December 11, 1929. Serial No. 293,529. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,843. MAPS AND PHOTOGRAPHS. FAIRCHILD AVIATION CORP., New York N. Y.
Filed December 11, 1929. Serial No. 293,528. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,844. SHIPPING TAGS. AMERICAN TAG COMPANY, Chicago, Ill.
Filed December 11, 1929. Serial No. 293,507. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,845. PERIODICAL. HOWARD W. PAGE, Philadelphia, Pa.
Filed December 10, 1929. Serial No. 293,482. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,846. PERIODICAL PUBLICATION. PIONEER PUBLISHING COMPANY, Oak Park, Ill.
Filed December 9, 1929. Serial No. 293,446. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,847. KRAFT PAPER. NEKOOSA-EDWARDS PAPER COMPANY, Port Edwards, Wis.
Filed December 9, 1929. Serial No. 293,440. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,848. PERIODICAL. WILLIAM B. DANA COMPANY, New York, N. Y.
Filed December 9, 1929. Serial No. 293,412. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,849. PERIODICAL. WILLIAM B. DANA COMPANY, New York, N. Y.
Filed December 9, 1929. Serial No. 293,411. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,850. PERIODICAL. WILLIAM B. DANA COMPANY, New York, N. Y.
Filed December 9, 1929. Serial No. 293,410. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,851. PERIODICAL. WILLIAM B. DANA COMPANY, New York, N. Y.
Filed December 9, 1929. Serial No. 293,409. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,852. TRANSPARENT WAXED PAPER. PACKAGE PAPER COMPANY, Holyoke, Mass.
Filed December 2, 1929. Serial No. 293,152. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,853. WRAPPING PAPER AND ENVELOPE PAPER. ORONO PULP & PAPER COMPANY, Bangor, Me.
Filed December 2, 1929. Serial No. 293,151. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,854. LEAD PENCILS, RUBBER ERASERS, AND COLORED PENCILS. EBERHARD FABER PENCIL COMPANY, Brooklyn, N. Y.
Filed December 2, 1929. Serial No. 293,133. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,855. PRINTED PLAYS AND PAGEANTS. UNIVERSAL PRODUCING COMPANY, Fairfield, Iowa.
Filed November 29, 1929. Serial No. 293,080. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,856. THE PICTURE SECTION OF A NEWSPAPER. CHESTER R. MILLER, Fairport and Rochester, N. Y.
Filed November 27, 1929. Serial No. 293,002. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,857. CIGARS. BOBROW BROS., INC., Philadelphia, Pa.
Filed December 20, 1929. Serial No. 293,916. PUBLISHED FEBRUARY 11, 1930. Class 17.

269,858. GARBAGE AND RUBBISH INCINERATORS. ROBERT T. WYSS, doing business as Pittsburgh Incinerator Co., Pittsburgh, Pa.
Filed December 17, 1929. Serial No. 293,804. PUBLISHED FEBRUARY 11, 1930. Class 34.

269,859. CANNED SUGAR CORN, PEACHES, PRUNES, APRICOTS, BLACKBERRIES, PINEAPPLE, APPLES, SALMON, TOMATOES, PEAS, SWEET POTATOES, PUMPKIN, PEARS, CHERRIES, AND BEANS. CUSHING GROCERY CO., Hastings, Nebr.
Filed December 17, 1929. Serial No. 293,772. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,860. PAPER BAGS. DUNCAN W. DIETRICH, doing business as D. W. Dietrich Paper Company, Chicago, Ill.
Filed December 16, 1929. Serial No. 293,724. PUBLISHED FEBRUARY 11, 1930. Class 2.

269,861. POPCORN IN ITS NATURAL STATE. THE BARTELDES SEED COMPANY, Lawrence, Kans.
Filed December 13, 1929. Serial No. 293,614. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,862. VACUUM BOTTLES. UNITED DRUG COMPANY, Boston, Mass.
Filed December 11, 1929. Serial No. 293,563. PUBLISHED FEBRUARY 11, 1930. Class 2.

269,863. CHEWING GUM. AMERICAN CHICLE COMPANY, Long Island City, N. Y.
Filed January 4, 1930. Serial No. 294,375. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,864. PIE CRUST. THE JUSBOL PIE CRUST CO., Oklahoma City, Okla.
Filed January 8, 1930. Serial No. 294,358. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,865. CANNED VEGETABLES. TAYLOR & CALDWELL, Walkerton, Va.
Filed December 31, 1929. Serial No. 294,282. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,866. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. MAGNOLIA COCA COLA BOTTLING CO., El Paso, Tex.
Filed December 31, 1929. Serial No. 294,270. PUBLISHED FEBRUARY 11, 1930. Class 45.

269,867. WHEAT FLOUR. THE LARABEE FLOUR MILLS COMPANY, Kansas City, Mo.
Filed December 30, 1929. Serial No. 294,229. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,868. WHEAT FLOUR. THE LARABEE FLOUR MILLS COMPANY, Kansas City, Mo.
Filed December 30, 1929. Serial No. 294,228. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,869. BREAD. FISCHER BAKING COMPANY, Newark, N. J.
Filed December 30, 1929. Serial No. 294,216. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,870. MATCHES. THE DIAMOND MATCH COMPANY, Chicago, Ill.
Filed December 30, 1929. Serial No. 294,215. PUBLISHED FEBRUARY 11, 1930. Class 9.

269,871. MATCHES. THE DIAMOND MATCH COMPANY, Chicago, Ill.
Filed December 30, 1929. Serial No. 294,212. PUBLISHED FEBRUARY 11, 1930. Class 9.

269,872. CARBONATED, MALTLESS, NONALCOHOLIC BEVERAGE SOLD AS A SOFT DRINK. CLOVERDALE SPRING COMPANY, Baltimore, Md.
Filed December 28, 1929. Serial No. 294,148. PUBLISHED FEBRUARY 11, 1930. Class 45.

269,873. ELECTRIC REFRIGERATORS. SAMUEL J. WOLFSON, doing business as All Electric Refrigerator Company, Malden, Mass.
Filed December 27, 1929. Serial No. 294,130. PUBLISHED FEBRUARY 11, 1930. Class 31.

269,874. WHEAT FLOUR. STANARD-TILTON MILLING CO., Dallas, Tex.
Filed December 27, 1929. Serial No. 294,124. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,875. ELECTRIC REFRIGERATING MACHINES AND PARTS THEREOF. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed December 21, 1929. Serial No. 294,001. PUBLISHED FEBRUARY 11, 1930. Class 31.

269,876. SMOKING TOBACCO, CHEWING TOBACCO, CIGARS, CIGARETTES, AND SNUFF. BROWN & WILLIAMSON TOBACCO CORPORATION, Louisville, Ky.
Filed December 21, 1929. Serial No. 293,953. PUBLISHED FEBRUARY 11, 1930. Class 17.

269,877. ELECTRIC PLATE WARMERS, HOT PLATES, FOOD WARMERS, ETC. THE PROMETHEUS ELECTRIC CORP., New York, N. Y.
Filed October 23, 1929. Serial No. 291,474. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,878. LUBRICATING OILS AND GREASES. CHAS. C. CARTER, doing business as Pennsylvania Lubricants Company, Los Angeles, Calif.
Filed October 23, 1929. Serial No. 291,486. PUBLISHED FEBRUARY 4, 1930. Class 15.

269,879. ELECTRICAL FUSE PLUGS. MULTI-FUSE CO., INC., Chicago, Ill.
Filed October 21, 1929. Serial No. 291,353. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,880. DRY CELLS. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill.
Filed October 21, 1929. Serial No. 291,351. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,881. MERCURY SWITCHES. TIME-O-STAT CONTROLS COMPANY, Elkhart, Ind.
Filed October 17, 1929. Serial No. 291,183. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,882. LUBRICATING OILS, GREASES, AND COMPOUNDS. JENKIN-GUERIN OIL COMPANY, St. Louis, Mo.
Filed October 16, 1929. Serial No. 291,126. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,883. INCANDESCENT LAMPS AND VACUUM OR ELECTRON TUBES. ECONOMIC LAMP COMPANY, Malden, Mass.
Filed October 1, 1929. Serial No. 290,458. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,884. SUPERVISORY-CONTROL SYSTEMS. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed September 28, 1929. Serial No. 290,164. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,885. FLASH LIGHTS AND DRY-CELL FLASHLIGHT BATTERIES. GROSSMAN MERCHANDISE CORPORATION, New York, N. Y.
Filed September 12, 1929. Serial No. 289,677. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,886. ILLUMINATING OILS, LUBRICATING OILS, LUBRICATING GREASES, GASOLINE, NAPHTHA, KEROSENE, MOTOR-FUEL OIL, FURNACE-FUEL OIL, AND CRUDE OIL. RESERVE PETROLEUM COMPANY, Tulsa, Okla.
Filed September 4, 1929. Serial No. 289,322. PUBLISHED FEBRUARY 4, 1930. Class 15.

269,887. GASOLINE AND LUBRICATING OILS. IMPERIAL REFINING COMPANY, Tulsa, Okla.
Filed July 30, 1929. Serial No. 287,875. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,888. GASOLINE AND LUBRICATING OILS. IMPERIAL REFINING COMPANY, Tulsa, Okla.
Filed July 30, 1929. Serial No. 287,874. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,889. RADIO RECEIVING SETS AND STRUCTURAL PARTS THEREOF, RADIO LOUD-SPEAKERS. BARKER BROS. INCORPORATED, Los Angeles, Calif.
Filed July 22, 1929. Serial No. 287,435. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,890. STRINGS FOR PLUCKED AND HAMMERED MUSICAL INSTRUMENTS. ARMOUR AND COMPANY, Chicago, Ill.
Filed July 17, 1929. Serial No. 287,224. PUBLISHED FEBRUARY 4, 1930. Class 36.

269,891. GASOLINE, LUBRICATING OILS AND GREASES, AND MOTOR AND FURNACE FUEL OILS. EMILE H. WALTER, New Orleans, La.
Filed June 12, 1929. Serial No. 285,488. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,892. LIGHT HAND SUCTION CLEANERS. JOHN NEWTON, London, England.
Filed June 7, 1929. Serial No. 285,220. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,893. MOTOR-FUEL OILS. THE BARRETT COMPANY, New York, N. Y.
Filed June 5, 1929. Serial No. 285,062. PUBLISHED FEBRUARY 4, 1930. Class 15.

269,894. PETROLEUM AND PRODUCTS OF PETROLEUM, MINERAL WAX, CANDLES, ETC. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed November 7, 1929. Serial No. 292,129. PUBLISHED FEBRUARY 4, 1930. Class 15.

269,895. LUBRICATING GREASE. NIAGARA LUBRICANT COMPANY, INC., Buffalo, N. Y.
Filed November 5, 1929. Serial No. 292,043. PUBLISHED FEBRUARY 4, 1930. Class 15.

269,896. ELECTRIC LAMPS, ELECTRIC-LAMP STANDARDS AND BASES. WELLINGTON-STONE COMPANY, Chicago, Ill.
Filed November 4, 1929. Serial No. 292,020. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,897. ELECTRIC HEATING DEVICES AND PARTS THEREFOR. SPEED PRODUCTS, INCORPORATED, Cleveland, Ohio.
Filed October 23, 1929. Serial No. 291,483. PUBLISHED FEBRUARY 4, 1930. Class 21.

269,898. METAL ALLOYS. THE HAYNES STELLITE COMPANY, Kokomo, Ind.
Filed November 26, 1929. Serial No. 292,933. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,899. PRINTING TYPE. THE BAUER TYPE FOUNDRY, INC., New York, N. Y.
Filed November 21, 1929. Serial No. 292,650. PUBLISHED FEBRUARY 11, 1930. Class 14.

269,900. VEGETABLE MATERIAL USED AS A LAXATIVE AND CORRECTOR FOR CONSTIPATION. SIDNEY COHEN, New York, N. Y.
Filed November 20, 1929. Serial No. 292,613. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,901. FISHHOOK STRUCTURE. JOHN ELLERBROEK, doing business as The Leech Lake Manufacturing Company, Spencer, Iowa.
Filed November 15, 1929. Serial No. 292,451. PUBLISHED FEBRUARY 4, 1930. Class 22.

269,902. ANTIFREEZE PREPARATION FOR AUTOMOBILE COOLING SYSTEMS. LABORATORY CHEMICALS, INC., Albany, N. Y.
Filed November 14, 1929. Serial No. 292,404. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,903. COLLOIDAL PENETRATING AGENT USED IN THE TEXTILE INDUSTRY. CHEMICAL & DYE CORPORATION, Springfield, N. J.
Filed November 14, 1929. Serial No. 292,394. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,904. AMMONIA AND SALT. NATIONAL GROCER COMPANY, Detroit, Mich.
Filed November 11, 1929. Serial No. 292,278. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,905. DENTIFRICES IN POWDER, CREAM, PASTE, OR LIQUID FORM. MILLER & HOUGHTON INC., New York, N. Y.
Filed November 11, 1929. Serial No. 292,275. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,906. LINIMENT. SIMON HYMES, Glenwood Springs, Colo.
Filed November 9, 1929. Serial No. 292,211. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,907. PREPARATION CONSISTING OF DRIED LIVER AND NATURAL SALTS TO BE USED AS A TONIC AND FOR THE RELIEF OF GOITRE AND SIMILAR DISTURBANCES. ABERLYONS LABORATORIES, INC., New York, N. Y.
Filed October 8, 1929. Serial No. 290,774. PUBLISHED DECEMBER 24, 1929. Class 6.

269,908. PERFUMES. WORTH, Paris, France.
Filed October 7, 1929. Serial No. 290,773. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,909. BABBITT METAL. THE FEDERATED METALS CORPORATION, San Francisco, Calif.
Filed October 5, 1929. Serial No. 290,694. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,910. BABBITT METAL. THE FEDERATED METALS CORPORATION, San Francisco, Calif.
Filed October 5, 1929. Serial No. 290,693. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,911. BABBITT METAL. THE FEDERATED METALS CORPORATION, San Francisco, Calif.
Filed October 5, 1929. Serial No. 290,692. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,912. COPPER AND ZINC PHOTO-ENGRAVERS' PLATES. ROLLED PLATE METAL COMPANY, New York, N. Y.
Filed October 2, 1929. Serial No. 290,524. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,913. MEDICINAL MINERAL COMPOUND. ANTHON V. HASSMAN, doing business as The A. V. Hassman Laboratory, Elkhart, Ind.
Filed September 30, 1929. Serial No. 290,409. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,914. ANALGESIC BALM, AROMATIC SPIRITS OF AMMONIA, BORIC-ACID SOLUTION, ETC. THE KENDALL COMPANY, Boston, Mass., and Chicago, Ill.
Filed September 20, 1929. Serial No. 290,025. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,915. INCENSE. SRI DEVA RAM SUKUL, doing business as Benares Incense Company, Chicago, Ill.
Filed September 19, 1929. Serial No. 289,997. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,916. CIGARETTE-VENDING STATIONARY MACHINES FOR AUTOMATICALLY DELIVERING SINGLE CIGARETTES. UNIVERSITY MANUFACTURING & SALES CO. INC., New York, N. Y.
Filed August 6, 1929. Serial No. 288,210. PUBLISHED FEBRUARY 11, 1930. Class 23.

269,917. CHEMICAL INSECT REPELLENTS. MIDWAY CHEMICAL CO., Chicago, Ill.
Filed July 18, 1929. Serial No. 287,808. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,918. MEDICINAL PREPARATION FOR THE TREATMENT OF ECZEMA. HOWARD CLAYTON WELLS, doing business as Sterrett Drug Company, Calera, Okla.
Filed June 5, 1929. Serial No. 285,180. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,919. LAWN MOWERS. WORCESTER LAWN MOWER COMPANY, Worcester, Mass.
Filed July 13, 1929. Serial No. 287,100. PUBLISHED FEBRUARY 11, 1930. Class 23.

269,920. LEATHER. GENERAL LEATHER COMPANY, Newark, N. J.
Filed December 11, 1929. Serial No. 293,531. PUBLISHED FEBRUARY 11, 1930. Class 1.

269,921. HAIR TONIC. MERRITT & MERRITT CO., Los Angeles, Calif.
Filed July 13, 1929. Serial No. 287,087. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,922. UTERINE TONIC AND SEDATIVE. COLE CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo.
Filed June 24, 1929. Serial No. 286,034. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,923. LUBRICATING OILS AND GREASES, GASOLINE, GAS OIL, AND KEROSENE. MOTOL, INC., New York, N. Y.
Filed December 6, 1929. Serial No. 293,338. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,924. FRICTION TAPE. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed December 5, 1929. Serial No. 293,302. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,925. FRICTION TAPE. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed December 5, 1929. Serial No. 293,301. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,926. JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES. AUTOMATIC GOLD CHAIN CO., Providence, R. I.
Filed December 5, 1929. Serial No. 293,258. PUBLISHED FEBRUARY 11, 1930. Class 28.

269,927. PHONOGRAPHS AND PHONOGRAPHS ADAPTED FOR COMBINATION WITH RADIO RECEIVING SETS. NORTH-MEHORNAY FURNITURE CO., Kansas City, Mo.
Filed December 4, 1929. Serial No. 293,220. PUBLISHED FEBRUARY 11, 1930. Class 36.

269,928. WATCH BRACELETS, NECK CHAINS, ETC. GEMEX COMPANY, Newark, N. J.
Filed December 4, 1929. Serial No. 293,217. PUBLISHED FEBRUARY 11, 1930. Class 28.

269,929. WATCH BRACELETS, NECK CHAINS, ETC. GEMEX COMPANY, Newark, N. J.
Filed December 4, 1929. Serial No. 293,216. PUBLISHED FEBRUARY 11, 1930. Class 28.

269,930. GASOLINE. HANLON-BUCHANAN, INCORPORATED, Tulsa, Okla.
Filed December 3, 1929. Serial No. 293,179. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,931. SPOONS, FORKS, AND KNIVES PLATED WITH PRECIOUS METAL. R. WALLACE & SONS MANUFACTURING COMPANY, Wallingford, Conn.
Filed November 30, 1929. Serial No. 293,118. PUBLISHED FEBRUARY 4, 1930. Class 28.

269,932. BULLETIN ISSUED MONTHLY. THE RADIUM EMANATION CORPORATION, New York, N. Y.
Filed December 28, 1929. Serial No. 294,180. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,933. BULLETIN ISSUED MONTHLY. THE RADIUM EMANATION CORPORATION, New York, N. Y.
Filed December 28, 1929. Serial No. 294,179. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,934. MONTHLY PUBLICATION. BRESKIN & CHARLTON PUBLISHING CORPORATION, New York, N. Y.
Filed December 28, 1929. Serial No. 294,140. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,935. NEWSPAPER PAGE, FEATURE, OR SECTION. NEW YORK TRIBUNE INC., New York, N. Y.
Filed December 26, 1929. Serial No. 294,081. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,936. CAKE, DOUGHNUTS, AND COOKIES. WARD BAKING COMPANY, New York, N. Y.
Filed December 9, 1929. Serial No. 293,456. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,937. ROCKET-ENGINE STARTERS. WILLSON FLYING CORPORATION, New York, N. Y.
Filed December 7, 1929. Serial No. 293,393. PUBLISHED FEBRUARY 11, 1930. Class 9.

269,938. METAL PIPE AND PIPE FITTINGS. PACIFIC STATES CAST IRON PIPE COMPANY, Provo, Utah.
Filed December 6, 1929. Serial No. 293,340. PUBLISHED FEBRUARY 11, 1930. Class 13.

269,939. CANNED MEATS AND CANNED MEAT PRODUCTS—NAMELY, CORNED BEEF AND CANNED MEAT LOAF. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y.
Filed December 6, 1929. Serial No. 293,325. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,940. COAL AND BRIQUETTES. OLD BEN COAL CORPORATION, Chicago, Ill.
Filed December 5, 1929. Serial No. 293,283. PUBLISHED FEBRUARY 11, 1930. Class 1.

269,941. SANDWICHES. ROTO CORPORATION, Chicago, Ill.
Filed December 2, 1929. Serial No. 293,156. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,942. CLOTHES HAMPERS. BEH & CO. INC., New York, N. Y.
Filed December 2, 1929. Serial No. 293,130. PUBLISHED FEBRUARY 11, 1930. Class 2.

269,943. PANCAKE GRIDDLES OR CAKE GRIDDLES. THE FISHBACK COMPANY, Indianapolis, Ind.
Filed November 29, 1929. Serial No. 293,036. PUBLISHED FEBRUARY 11, 1930. Class 13.

269,944. CAPS AND HATS FOR MEN. HODSHON-BERG, INCORPORATED, Danbury, Conn., and New York, N. Y.
Filed December 12, 1929. Serial No. 293,579. PUBLISHED FEBRUARY 11, 1930. Class 39.

269,945. CERTAIN NAMED WEARING APPAREL. ALWARD-ANDERSON-SOUTHARD CO., Chicago, Ill.
Filed December 11, 1929. Serial No. 293,508. PUBLISHED FEBRUARY 11, 1930. Class 39.

269,946. HATS AND CAPS FOR MEN. HARRY B. WEISS, doing business as Wise Hat Co., New York, N. Y., assignor to Finkelstein Bros. Inc., New York, N. Y., a Corporation of New York.
Filed November 30, 1929. Serial No. 293,121. PUBLISHED FEBRUARY 4, 1930. Class 39.

269,947. LUBRICATING OILS AND GREASES. JACKSON OIL COMPANY, INC., New Orleans, La.
Filed December 7, 1929. Serial No. 293,371. PUBLISHED FEBRUARY 11, 1930. Class 15.

269,948. JEWELRY FOR PERSONAL WEAR OR ADORNMENT, NOT INCLUDING WATCHES. AUTOMATIC GOLD CHAIN CO., Providence, R. I.
Filed December 7, 1929. Serial No. 293,361. PUBLISHED FEBRUARY 11, 1930. Class 28.

269,949. CHEMICAL COMPOUNDS FOR THE DESTRUCTION OF MICE AND RATS. GEORGES STREEP, doing business as Laboratoire des Vaccins Pasteur pour l'Etranger, Paris, France.
Filed November 15, 1929. Serial No. 292,471. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,950. PERFUMES AND HYGIENIC PRODUCTS. FRANKLIN SIMON & CO. INC., New York, N. Y.
Filed November 7, 1929. Serial No. 292,127. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,951. PREPARATION TO BE USED IN THE TREATMENT OF TOOTHACHE, INSECT BITES, HORSE COLIC, ETC. MONTICELLO DRUG COMPANY, Jacksonville, Fla.
Filed November 7, 1929. Serial No. 292,114. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,952. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. PERCIVAL E. FALKINGHAM, New York, N. Y.
Filed November 1, 1929. Serial No. 291,870. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,953. COSMETICS—NAMELY, COLD CREAM, TISSUE CREAM, FOUNDATION CREAM, CLEANSING CREAM, PORE CREAM, SKIN LOTIONS, ASTRINGENT BALM, FACE POWDER, DUSTING POWDER, TALCUM POWDER. THE M. STEIN COSMETIC CO., New York, N. Y.
Filed October 30, 1929. Serial No. 291,803. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,954. GRANULAR EFFERVESCENT SALTS. WYETH CHEMICAL COMPANY, Jersey City, N. J.
Filed October 29, 1929. Serial No. 291,751. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,955. WHOOPING-COUGH SYRUP. CHARLES C. DOUGLAS, Cambridge, Mass.
Filed October 25, 1929. Serial No. 291,556. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,956. LIP STICKS, FACE AND DUSTING POWDER, BATH AND TALCUM POWDER, ETC. MARCEL GUERLAIN, INC., New York, N. Y.
Filed October 24, 1929. Serial No. 291,508. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,957. MEDICINAL PREPARATION FOR USE IN TREATING BLOOD POISONING, ETC. HASSIE S. HAIR, Osborne, N. C.
Filed October 5, 1929. Serial No. 290,700. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,958. DOUCHE POWDER. EARL R. MILLIS, doing business as Douchel Company, Kansas City, Kans.
Filed October 4, 1929. Serial No. 290,659. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,959. BALM LINIMENT FOR MAN OR BEAST FOR BRUISES, LUMBAGO, AND RHEUMATISM; OINTMENT FOR BOILS, AND A RINGWORM MEDICINE. CALDERONI MEDICINE CO., Brownsville, Tex.
Filed October 1, 1929. Serial No. 290,447. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,960. ICE CREAM. JAY D. REED, doing business as Reed Home Made Ice Cream Company, Des Moines, Iowa.
Filed September 18, 1929. Serial No. 289,942. PUBLISHED FEBRUARY 4, 1930. Class 46.

269,961. SYNTHETIC RESINS, SOLUTIONS OF SYNTHETIC RESINS, AND MIXTURES OBTAINED BY MELTING SYNTHETIC RESINS WITH OTHER CHEMICAL COMPOUNDS. CONSORTIUM FUR ELEKTROCHEMISCHE INDUSTRIE, G. M. B. H., Munich, Germany.
Filed September 7, 1929. Serial No. 289,447. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,962. MEDICINAL PREPARATION FOR THE PREVENTION AND TREATMENT OF COLDS, CATARRH, AND DISEASES OF THE SINUSES AND ANTRUMS. J. D. MILLER, doing business as The Miller Drug Co., Bridgewater, Va.
Filed August 22, 1929. Serial No. 288,862. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,963. PIECE GOODS OF ALL WOOL OR FABRICS OF PART WOOL AND PART COTTON, WITH AND WITHOUT ORNAMENTATION COMPOSED OF RAYON. BEDFORD JOHNSON COMPANY, INC., New York, N. Y.
Filed June 19, 1929. Serial No. 285,807. PUBLISHED FEBRUARY 11, 1930. Class 42.

269,964. PREPARATION FOR SORES AND ABRASIONS. THERESE LIANDER, doing business as The Septano Co., Ashland, Wis.
Filed June 14, 1929. Serial No. 285,569. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,965. GAME-TABLE CUSHIONS. THE BRUNSWICK BALKE COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.
Filed November 27, 1929. Serial No. 292,973. PUBLISHED FEBRUARY 4, 1930. Class 22.

269,966. WELDING RODS AND METAL ALLOYS. THE HAYNES STELLITE COMPANY, Kokomo, Ind.
Filed November 26, 1929. Serial No. 292,934. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,967. DENTAL CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed November 23, 1929. Serial No. 292,793. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,968. SKIN LOTION. JOHN L. PLUMMER, doing business as Veleur Co., Los Angeles, Calif.
Filed November 26, 1929. Serial No. 292,957. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,969. TEXTILE LAP ROBES. ARTHUR CLYDE STEENBURG, doing business as Cozy Cover Robe Co., Farmington, Ill.
Filed December 4, 1929. Serial No. 293,240. PUBLISHED FEBRUARY 11, 1930. Class 42.

269,970. SILK CREPES IN THE PIECE. WILLIAM SKINNER & SONS, New York, N. Y.
Filed November 30, 1929. Serial No. 293,112. PUBLISHED FEBRUARY 11, 1930. Class 42.

269,971. PROPHYLACTIC SUPPOSITORIES FOR PREVENTION OF CONTAGIOUS DISEASES. J. STANLEY JOHNSON, Hagerstown, Md.
Filed November 30, 1929. Serial No. 293,101. PUBLISHED FEBRUARY 11, 1930. Class 6.

269,972. ALLOY STEEL. LUDLUM STEEL COMPANY, Watervliet, N. Y.
Filed December 28, 1929. Serial No. 294,163. PUBLISHED FEBRUARY 11, 1930. Class 14.

269,973. SHEARS, SCISSORS, HATCHETS, SHARPENING STEELS, DISH SCRAPERS, AND GOUGES. GIRL SCOUTS, New York, N. Y.
Filed December 28, 1929. Serial No. 294,152. PUBLISHED FEBRUARY 11, 1930. Class 23.

269,974. PUMPS. BEACH-RUSS CO., Brooklyn, N. Y.
Filed December 28, 1929. Serial No. 294,139. PUBLISHED FEBRUARY 11, 1930. Class 23.

269,975. NUMBERING MACHINES. THE BATES MANUFACTURING COMPANY, West Orange, N. J.
Filed December 28, 1929. Serial No. 294,137. PUBLISHED FEBRUARY 11, 1930. Class 26.

269,976. FULLING MILLS. RODNEY HUNT MACHINE CO., Orange, Mass.
Filed December 26, 1929. Serial No. 294,087. PUBLISHED FEBRUARY 11, 1930. Class 23.

269,977. PIG IRON. A/S BREMANGER KRAFTSELSKAB, Bergen, Norway.
Filed December 14, 1929. Serial No. 293,657. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,978. GOLF BALLS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 14, 1929. Serial No. 293,696. PUBLISHED FEBRUARY 4, 1930. Class 22.

269,979. ALUMINIUM ALLOYS. ALUMINIUM-INDUSTRIE-AKTIEN-GESELLSCHAFT, Neuhausen, Switzerland.
Filed December 14, 1929. Serial No. 293,651. PUBLISHED FEBRUARY 11. 1930. Class 14.

269,980. PLAYING CARDS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.
Filed December 13, 1929. Serial No. 293,626. PUBLISHED FEBRUARY 4, 1930. Class 22.

269,981. GENERAL TONIC IN LIQUID FORM. H. S. BENEDICT COMPANY, INC., New York, N. Y.
Filed December 3, 1929. Serial No. 293,174. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,982. MEDICAL PREPARATION USED FOR THE TREATMENT OF GASTROINTESTINAL DISORDERS. MYRON L. WALKER, doing business as Hyocarbonates Co., New York, N. Y.
Filed November 27, 1929. Serial No. 293,019. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,983. A GAME. JAMES W. PEARCE, doing business as Jimmie's Brincadores Company, Nashville, Tenn.
Filed December 5, 1929. Serial No. 293,286. PUBLISHED FEBRUARY 4, 1930. Class 22.

269,984. METALS—NAMELY, PIG IRON, CAULKING LEAD, ANTIMONIAL LEAD, BRASS INGOTS, ALUMINUM SLABS AND INGOTS, AND SOLDER. SUGARMAN SMELTING & REFINING COMPANY, San Francisco, Calif.
Filed December 4, 1929. Serial No. 293,248. PUBLISHED FEBRUARY 11, 1930. Class 14.

269,985. PRECIOUS METALS AND PRECIOUS-METAL ALLOYS. THE H. A. WILSON COMPANY, Newark, N. J.
Filed November 30, 1929. Serial No. 293,122. PUBLISHED FEBRUARY 4, 1930. Class 14.

269,986. PERIODICAL PUBLISHED ANNUALLY. HUNTINGTON HOTEL COMPANY, Pasadena, Calif.
Filed December 14, 1929. Serial No. 293,665. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,987. BOND AND WRITING PAPER. WATERFALLS PAPER MILLS, Mechanic Falls, Me., and New York, N. Y.
Filed December 13, 1929. Serial No. 293,647. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,988. WAX, TRANSPARENT AND PARAFFINE PAPER. NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.
Filed December 13, 1929. Serial No. 293,635. PUBLISHED FEBRUARY 4, 1930. Class 37.

269,989. LUBRICATING OILS OF PETROLEUM BASIS. WALTER & CO., Rio de Janiero, Brazil.
Filed October 28, 1927. Serial No. 256,755. PUBLISHED FEBRUARY 28, 1928. Class 15.

269,990. CANNED FISH, CANNED FISH CAKE. GILBERT C. VAN CAMP, San Pedro, Calif.
Filed August 25, 1926. Serial No. 236,456. PUBLISHED FEBRUARY 11, 1930. Class 46.

269,991. MEDICINAL PREPARATION FOR THE RELIEF OF PAIN IN THE TEETH AND GUMS. MOORE LABORATORIES, INC., Trenton, N. J.
Filed May 14, 1928. Serial No. 266,390. PUBLISHED FEBRUARY 4, 1930. Class 6.

269,992. ELECTRICAL ABRADING AND WOOD-SURFACING TOOLS, SUCH AS SANDING MACHINES. CLARKE SANDING MACHINE COMPANY, Chicago, Ill.
Filed March 7, 1928. Serial No. 262,699. PUBLISHED FEBRUARY 11, 1930. Class 21.

269,993. GASKET PASTES. CHARLES W. BAILEY, doing business as Blue Rock Gasket Paste Co., Dayton, Ohio.
Filed December 19, 1928. Serial No. 276,945. PUBLISHED FEBRUARY 11, 1930. Class 5.

269,994. SERIES OF CARTOONS OR COMIC STRIPS IN DAILY NEWSPAPER. DAILY GRAPHIC, INC., New York, N. Y.
Filed November 27, 1929. Serial No. 292,984. PUBLISHED FEBRUARY 4, 1930. Class 38.

269,995. SERIES OF CARTOONS OR COMIC STRIPS IN DAILY NEWSPAPER. DAILY GRAPHIC, INC., New York, N. Y.
Filed November 27, 1929. Serial No. 292,983. PUBLISHED FEBRUARY 4, 1930. Class 38.

269,996. MAGAZINES PUBLISHED EVERY MONTH. GRAPHIC ARTS CORPORATION, Minneapolis and St. Paul, Minn.
Filed November 27, 1929. Serial No. 292,982. PUBLISHED FEBRUARY 11, 1930. Class 38.

269,997. MAGAZINE AND PRINTED CIRCULARS, PROGRAMS, PLACARDS, AND SIGNS SOLD TO THE TRADE AS SUCH. GLENN W. ANTHONY, Phenix City, Ala.
Filed November 15, 1929. Serial No. 292,436. PUBLISHED FEBRUARY 4, 1930. Class 38.

269,998. PERIODICAL. STAHL'S OUTDOOR ENTERPRISE COMPANY, INC., Kansas City, Mo.
Filed November 11, 1929. Serial No. 292,298. PUBLISHED FEBRUARY 4, 1930. Class 38.

269,999. PICTURE SECTION OF A NEWSPAPER OR MAGAZINE PUBLISHED PERIODICALLY. DALE CARNEGIE, Forest Hills, N. Y.
Filed November 7, 1929. Serial No. 292,096. PUBLISHED FEBRUARY 4, 1930. Class 38.

270,000. BOOK, TEXT, AND COVER PAPER AND MAILING ENVELOPES. STRATHMORE PAPER COMPANY, Mittineague, Mass.
Filed November 4, 1929. Serial No. 292,016. PUBLISHED FEBRUARY 11, 1930. Class 37.

270,001. SHEET MUSIC AND MUSIC BOOKS. SAMUEL KESTENBAUM and MAURICE M. KORN, doing business as Lewis & Clark, Coney Island, N. Y.
Filed September 27, 1929. Serial No. 290,315. PUBLISHED FEBRUARY 4, 1930. Class 38.

270,002. PAPER COMMODE-SEAT COVERS AND PAPER TOWELS. ZETEX CORPORATION, Tacoma, Wash.
Filed August 16, 1929. Serial No. 288,630. PUBLISHED FEBRUARY 4, 1930. Class 37.

270,003. FILING-INDEX SYSTEMS, PARTICULARLY FILING FOLDERS, FILING GUIDES, AND INDEX CARDS. GUY K. YOUNG, doing business as Architects' File Service, Los Angeles, Calif.
Filed August 14, 1929. Serial No. 288,532. PUBLISHED FEBRUARY 4, 1930. Class 37.

270,004. PHONOGRAPH NEEDLES. W. H. BAGSHAW COMPANY, Lowell, Mass.
Filed November 26, 1929. Serial No. 292,921. PUBLISHED FEBRUARY 4, 1930. Class 36.

270,005. PHONOGRAPHS ADAPTED FOR COMBINATION WITH RADIO DEVICES. GRIGSBY-GRUNOW COMPANY, Chicago, Ill.
Filed November 21, 1929. Serial No. 292,666. PUBLISHED FEBRUARY 4, 1930. Class 36.

270,006. ELECTRIC BATTERIES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed November 18, 1929. Serial No. 292,604. PUBLISHED FEBRUARY 4, 1930. Class 21.

270,007. ELECTRIC APPLIANCES—NAMELY, PORTABLE REFLECTING AIR HEATERS AND PORTABLE COIL HEATERS, TOASTERS, FLATIRONS. METROPOLITAN MFG. & ELECTRIC CO., Chicago, Ill.
Filed November 20, 1929. Serial No. 292,635. PUBLISHED FEBRUARY 4, 1930. Class 21.

270,008. CANDLES. WILL & BAUMER CANDLE CO., INC., Syracuse, N. Y.
Filed November 14, 1929. Serial No. 292,429. PUBLISHED FEBRUARY 4, 1930. Class 15.

270,009. GASOLINE. WAVERLY OIL WORKS COMPANY, Pittsburgh, Pa.
Filed November 14, 1929. Serial No. 292,428. PUBLISHED FEBRUARY 4, 1930. Class 15.

270,010. ORNAMENTAL AND WATCH BRACELETS. UNIVERSAL WATCH BRACELET MANUFACTURERS, INC., Los Angeles, Calif.
Filed November 13, 1929. Serial No. 292,377. PUBLISHED FEBRUARY 11, 1930. Class 28.

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270,011. GASOLINE, KEROSENE, LUBRICATING OILS AND GREASES, AND LUBRICATING OILS FOR HOUSEHOLD PURPOSES. SINCLAIR AUTOMOBILE SERVICE CORPORATION, Chicago, Ill.
Filed November 9, 1929. Serial No. 292,233. PUBLISHED FEBRUARY 4, 1930. Class 15.

270,012. ELECTRICAL APPARATUS FOR HEATING AND CIRCULATING AIR TO REMOVE MOISTURE AND FROST FROM WINDOWS. UTILITIES SALES CORPORATION, Fergus Falls, Minn.
Filed November 8, 1929. Serial No. 292,188. PUBLISHED FEBRUARY 4, 1930. Class 21.

270,013. SERIES OF CARTOONS OR COMIC STRIPS IN DAILY NEWSPAPER. DAILY GRAPHIC, INC., New York, N. Y.
Filed November 27, 1929. Serial No. 292,986. PUBLISHED FEBRUARY 4, 1930. Class 38.

270,014. ANTIPYRETIC, ANALGESIC, AND SEDATIVE BIO-MEDICAL RESEARCH LABORATORIES, INCORPORATED, Brooklyn, N. Y.
Filed November 27, 1929. Serial No. 292,972. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,015. SANITARY BELTS. MARY O. STONE, New York, N. Y.
Filed November 13, 1929. Serial No. 292,376. PUBLISHED FEBRUARY 4, 1930. Class 44.

270,016. DISHWASHERS, STOVES, HAND DRYERS, ETC. EDNA CLAIRE DAVIS, doing business as Paxette, Brookline, Mass.
Filed January 8, 1929. Serial No. 277,697. PUBLISHED FEBRUARY 11, 1930. Class 21.

270,017. LAXATIVE. SAMUEL B. ADLER, doing business as Dynamite Company of America, Steubenville, Ohio.
Filed November 30, 1927. Serial No. 258,205. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,018. TIN CANS. CONTINENTAL CAN COMPANY, INC., New York, N. Y.
Filed December 4, 1928. Serial No. 276,252. PUBLISHED FEBRUARY 11, 1930. Class 2.

270,019. TRUNKS. THE BELBER TRUNK & BAG COMPANY, Philadelphia, Pa.
Filed December 4, 1928. Serial No. 276,245. PUBLISHED FEBRUARY 11, 1930. Class 3.

270,020. RADIO RECEIVING SETS AND PARTS THEREOF AND APPARATUS FOR ASSOCIATION THEREWITH FOR EFFECTING THE ADJUSTMENT OF THE CONTROLS THEREOF. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed October 13, 1928. Serial No. 273,789. PUBLISHED DECEMBER 31, 1929. Class 21.

270,021. CHEWING GUM. AMERICAN CHICLE COMPANY, Long Island City, N. Y.
Filed September 29, 1928. Serial No. 273,128. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,022. TONIC FOR INDIGESTION, TORPID LIVER, THE KIDNEYS, AND THE BLOOD. GEORGE DOUGLASS, McDonald, Pa.
Filed September 22, 1928. Serial No. 272,791. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,023. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. MAIZE SHOE COMPANY, Rochester, N. Y.
Filed August 30, 1928. Serial No. 271,766. PUBLISHED APRIL 23, 1929. Class 39.

270,024. PIPE-THREAD COMPOUND. THE ALLOYS COMPANY, San Francisco, Calif.
Filed August 27, 1928. Serial No. 271,586. PUBLISHED FEBRUARY 11, 1930. Class 13.

270,025. CLOTHES-WASHING MACHINES AND PARTS THEREFOR. ELECTROLUX, INC., New York, N. Y.
Filed June 3, 1929. Serial No. 284,976. PUBLISHED FEBRUARY 11, 1930. Class 24.

270,026. MEDICATED CANDY AND CHEWING GUM. THE NUTROLO CO., Philadelphia, Pa.
Filed June 1, 1929. Serial No. 284,915. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,027. SKIN-DUSTING POWDER. DAVID KRANIS, New York, N. Y.
Filed June 1, 1929. Serial No. 284,912. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,028. SHOES MADE OF LEATHER. HOME TRADE SHOE STORE, INC., Minneapolis, Minn.
Filed May 11, 1929. Serial No. 283,870. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,029. SHOES MADE OF LEATHER. HOME TRADE SHOE STORE, INC., Minneapolis, Minn.
Filed May 11, 1929. Serial No. 283,866. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,030. PIECE GOODS OF SILK. BIANCHINI, FÉRIER, Lyon, France.
Filed May 8, 1929. Serial No. 283,657. PUBLISHED FEBRUARY 11, 1930. Class 42.

270,031. FINGER RINGS, BRACELETS, NECKLACES, BROOCHES, SCARFPINS, BUCKLES, CHAINS, LAVALIERS, WATCH CHAINS, CUFF BUTTONS, HAT ORNAMENTS, AND SHIRT STUDS, ALL SAID ARTICLES BEING MADE OF OR PLATED WITH PRECIOUS METAL; AND JEWELS CONSISTING OF GEMS AND PRECIOUS STONES OF ALL KINDS. GEORGE H. BEATTIE, Cleveland, Ohio.
Filed May 3, 1929. Serial No. 283,428. PUBLISHED FEBRUARY 4, 1930. Class 28.

270,032. MEDICINAL PREPARATION FOR THE TREATMENT OF DIABETES. MARIANO CASQUERO Y VIETA, Habana, Cuba.
Filed April 29, 1929. Serial No. 283,205. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,033. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. KING OF CLUBS, INC., Newark, N. J.
Filed April 23, 1929. Serial No. 282,860. PUBLISHED FEBRUARY 11, 1930. Class 45.

270,034. TOILET-POWDER CONTAINERS, VANITY CASES, FACE-POWDER AND COSMETIC BOXES, ETC. GEMEX COMPANY, Newark, N. J.
Filed April 8, 1929. Serial No. 282,033. PUBLISHED FEBRUARY 11, 1930. Class 2.

270,035. NONALCOHOLIC, CEREAL, MALT BEVERAGES. PIEL BROS., INC., doing business as Kings Brewery, Brooklyn, N. Y.
Filed April 1, 1929. Serial No. 281,688. PUBLISHED FEBRUARY 11, 1930. Class 48.

270,036. FACE POWDERS AND ROUGES. THE CRYSTAL CHEMICAL COMPANY, INC., Bronx, N. Y.
Filed March 8, 1929. Serial No. 280,439. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,037. MALTLESS BEVERAGES AND SYRUPS, EXTRACTS, AND CONCENTRATES FOR PREPARING THE SAME. STANDARD IMPORTS LIMITED, Montreal, Quebec, Canada.
Filed February 18, 1929. Serial No. 279,568. PUBLISHED FEBRUARY 11, 1930. Class 45.

270,038. FROZEN FRUITS. JAMES M. MCINTOSH, Buffalo, N. Y.
Filed January 28, 1929. Serial No. 278,551. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,039. BANDELORE TOY SPINNING TOPS. DONALD F. DUNCAN, Chicago, Ill.
Filed December 10, 1929. Serial No. 293,467. PUBLISHED FEBRUARY 11, 1930. Class 22.

270,040. CITRIC-ACID TABLETS TO BE USED IN THE PREPARATION OF CITRATED MILK FOR INFANT FEEDING. E. R. SQUIBB & SONS, New York, N. Y.
Filed December 10, 1929. Serial No. 293,491. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,041. QUARTER-ANNUAL PERIODICALS. FIFTH AVENUE MODES, INC., New York, N. Y.
Filed December 23, 1929. Serial No. 294,013. PUBLISHED FEBRUARY 11, 1930. Class 38.

270,042. PUBLICATION ISSUED MONTHLY. A. C. BECKEN COMPANY, Chicago, Ill.
Filed December 23, 1929. Serial No. 294,005. PUBLISHED FEBRUARY 11, 1930. Class 38.

270,043. MONTHLY PUBLICATION. JOSEPH E. MAGNUS, doing business as The Auto Truck Food Distributor Publishing Company, Chicago, Ill.
Filed December 20, 1929. Serial No. 293,927. PUBLISHED FEBRUARY 11, 1930. Class 38.

270,044. MAGAZINE PUBLISHED MONTHLY. BLUE AND GRAY TRANSIT COMPANY, Charleston, W. Va.
Filed December 19, 1929. Serial No. 293,866. PUBLISHED FEBRUARY 11, 1930. Class 38.

270,045. TRANSPARENT WAXED PAPER. PACKAGE PAPER COMPANY, Holyoke, Mass.
Filed December 14, 1929. Serial No. 293,685. PUBLISHED FEBRUARY 4, 1930. Class 37.

270,046. IDENTIFICATION LABELS. THE ORRSELL COMPANY, New York, N. Y.; Philadelphia, Pa.; and Vancouver, Wash.
Filed December 14, 1929. Serial No. 293,683. PUBLISHED FEBRUARY 11, 1930. Class 38.

270,047. MONTHLY MAGAZINE. MACFADDEN PUBLICATIONS, INC., New York, N. Y.
Filed December 14, 1929. Serial No. 293,674. PUBLISHED FEBRUARY 11, 1930. Class 38.

270,048. TOILET TISSUE. S. H. KRESS & Co., New York, N. Y.
Filed December 14, 1929. Serial No. 293,670. PUBLISHED FEBRUARY 4, 1930. Class 37.

270,049. GOLF CLUBS. THE KROYDON COMPANY, Maplewood, N. J.
Filed December 10, 1929. Serial No. 293,473. PUBLISHED FEBRUARY 11, 1930. Class 22.

270,050. COTTON AND LINEN BED SHEETS, SHEETING, WIDE SHEETING, PILLOWCASES, AND MUSLIN PILLOW TUBING. KLINE BROTHERS CO., New York, N. Y.
Filed January 6, 1930. Serial No. 294,428. PUBLISHED FEBRUARY 11, 1930. Class 42.

270,051. PIECE GOODS OF SILK AND RAYON AND MIXTURES THEREOF. DUPLAN SILK CORPORATION, New York, N. Y.
Filed January 2, 1930. Serial No. 294,295. PUBLISHED FEBRUARY 11, 1930. Class 42.

270,052. JUTE WRAPPING TWINE AND JUTE MILLER'S TWINE. HANOVER CORDAGE COMPANY, Hanover, Pa.
Filed December 30, 1929. Serial No. 294,221. PUBLISHED FEBRUARY 11, 1930. Class 7.

270,053. NAPPED AND UNNAPPED DAMASK TABLECLOTHS, CARD-TABLE COVERS, LUNCHEON SETS, RAYON TABLECLOTHS, AND RAYON TABLE SCARFS. THE AMERICAN PRODUCTS CO., doing business as Bellcrest Company, Cincinnati, Ohio.
Filed December 28, 1929. Serial No. 294,185. PUBLISHED FEBRUARY 11, 1930. Class 42.

270,054. JAPANESE SILK GUT FOR FISHING LINES AND LEADERS. MCDONALD AND LINFORTH, San Francisco, Calif.
Filed December 26, 1929. Serial No. 294,078. PUBLISHED FEBRUARY 11, 1930. Class 22.

270,055. VAGINAL DOUCHE. IRWIN, NEISLER & Co., Decatur, Ill.
Filed December 21, 1929. Serial No. 293,973. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,056. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. LUDWIG SCHERK, INC., New York, N. Y.
Filed December 12, 1929. Serial No. 293,598. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,057. TABLETS FOR THE RELIEF OF RHEUMATISM, SCIATICA, NEURITIS, LUMBAGO, SORE MUSCLES, SWOLLEN JOINTS, OR ARTHRITIS. BERT L. KLEIN, doing business as Bernard Laboratories, Cleveland, Ohio.
Filed December 7, 1929. Serial No. 293,505. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,058. MEDICINAL PREPARATION FOR TREATING CORNS, BUNIONS, AND CALLOUSES. GEORGE BESSINGER, Sheboygan, Wis.
Filed December 9, 1929. Serial No. 293,403. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,059. LIQUID MOUTH WASH, GARGLE AND SPRAY FOR NOSE AND THROAT, DEODORANT, AND SICK-ROOM DISINFECTANT. WESTERN PRODUCTS CO., doing business as Illinois Cosmetics Co., Chicago, Ill.
Filed December 7, 1929. Serial No. 293,391. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,060. ANALGESIC AND COUNTERIRRITANT PREPARATIONS FOR EXTERNAL APPLICATION AND INHALATION. THE SYDNEY ROSS CO., Newark, N. J.
Filed December 6, 1929. Serial No. 293,346. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,061. CERTAIN NAMED WEARING APPAREL. M. C. SCHRANK & COMPANY, Bridgeton, N. J.
Filed November 19, 1929. Serial No. 292,596. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,062. SHOES MADE OF LEATHER. LOUIS GOLDMAN, doing business as The L. Goldman Shoe Company, Denver, Colo.
Filed November 18, 1929. Serial No. 292,528. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,063. LEATHER, CLOTH, AND KNITTED GLOVES. C. D. OSBORN CO., Chicago, Ill.
Filed November 14, 1929. Serial No. 292,413. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,064. BOOTS AND SHOES OF LEATHER. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed November 14, 1929. Serial No. 292,403. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,065. HATS AND CAPS FOR MEN, OVERCOATS FOR MEN, HATS FOR WOMEN, WOMEN'S DRESSES, AND WOMEN'S COATS. BYRON HAT CORPORATION, New York, N. Y.
Filed November 11, 1929. Serial No. 292,249. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,066. SHOES MADE OF LEATHER, RUBBER, AND FABRIC AND COMBINATIONS OF THOSE MATERIALS. S. J. BROUWER, Milwaukee, Wis.
Filed November 11, 1929. Serial No. 292,247. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,067. SHOES MADE WHOLLY OF LEATHER. BONA ALLEN, INC., Buford, Ga.
Filed November 7, 1929. Serial No. 292,089. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,068. YOUTHS', WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS OF THE SAME. GROUND GRIPPER SHOE COMPANY, INC., Boston, Mass.
Filed November 5, 1929. Serial No. 292,036. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,069. NEGLIGEES, CORSETS, DRESSES, COATS, SWEATERS, UNDERWEAR OF TEXTILE FABRICS, HOSIERY, LEATHER AND FABRIC SHOES, HATS FOR WOMEN, MISSES, AND JUNIOR MISSES. B. GERTZ, INCORPORATED, Jamaica, N. Y.
Filed November 4, 1929. Serial No. 291,974. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,070. BOOTS, LUMBERMENS' PACS, ARCTICS, AND RUBBER SHOES OF RUBBER OR RUBBER AND FABRIC. THE BEACON FALLS RUBBER SHOE COMPANY, Beacon Falls, Conn.
Filed November 2, 1929. Serial No. 291,903. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,071. HATS AND CAPS, BUT PARTICULARLY PANAMA AND STRAW HATS FOR MEN, WOMEN, AND CHILDREN. M. S. LEVY & SONS, INC., Baltimore, Md.
Filed October 30, 1929. Serial No. 291,778. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,072. HATS AND CAPS, BUT PARTICULARLY STRAW HATS FOR MEN, WOMEN, AND CHILDREN. M. S. LEVY & SONS, INC., Baltimore, Md.
Filed October 30, 1929. Serial No. 291,777. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,073. WIRE SOLDER. THE FEDERATED METALS CORPORATION, San Francisco, Calif.
Filed October 16, 1929. Serial No. 291,122. PUBLISHED FEBRUARY 4, 1930. Class 14.

270,074. LEATHER, CLOTH, AND KNITTED GLOVES. C. D. OSBORN CO., Chicago, Ill.
Filed October 3, 1929. Serial No. 290,590. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,075. CLOTHING, AND IN PARTICULAR SHOES MADE OF RUBBER AND FABRIC. JUDSEN RUBBER WORKS, Chicago, Ill.
Filed September 9, 1929. Serial No. 289,522. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,076. SHOE AND STOCKING PROTECTOR IN THE NATURE OF A DEVICE MADE OF CANVAS, LEATHER, AND WATERPROOF TEXTILE GOODS INTENDED TO PROTECT THE HEELS AND BACK OF THE SHOES WHILE DRIVING AN AUTOMOBILE. FLORENCE B. SAWYER, Chicago, Ill.
Filed September 5, 1929. Serial No. 289,369. PUBLISHED FEBRUARY 4, 1930. Class 39.

270,077. TALKING MACHINES AND PARTS THEREOF AND RECORDS. LIMIT ENGINEERING CO. LTD., London, England.
Filed August 20, 1929. Serial No. 288,751. PUBLISHED DECEMBER 31, 1929. Class 36.

270,078. SHOES AND SLIPPERS. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed June 26, 1929. Serial No. 286,179. PUBLISHED FEBRUARY 4, 1930. Class 39.

TRADE-MARK REGISTRATIONS RENEWED

34,426. CERTAIN NAMED CHEMICAL, PHARMACEUTICAL, SURGICAL, DIETETIC, AND COSMETIC PRODUCTS AND PREPARATIONS. Registered April 3, 1900. ICHTHYOL-GESELLSCHAFT CORDES, HERMANNI & CO., Hamburg, Germany. Renewed April 3, 1930, to The Ichthyol Co., Rahway, N. J., a Corporation of New Jersey, assignee.

34,427. CERTAIN NAMED CHEMICAL PHARMACEUTICAL, SURGICAL, DIETETIC, AND COSMETIC PRODUCTS AND PREPARATIONS. Registered April 3, 1910. ICHTHYOL-GESELLSCHAFT CORDES, HERMANNI & CO., Hamburg, Germany. Renewed April 3, 1930, to The Ichthyol Co., Rahway, N. J., a Corporation of New Jersey, assignee.

34,494. CERTAIN NAMED DAIRY PRODUCTS. Registered April 17, 1900. ANGLO-SWISS CONDENSED MILK COMPANY. Renewed April 17, 1930, to Borden's Milk Products Company, Inc., New York, N. Y., a Corporation of Delaware, assignee by mesne assignments.

34,604. CERTAIN NAMED MECHANICAL TOOLS AND INSTRUMENTS OF PRECISION. Registered May 1, 1900. THE L. S. STARRETT COMPANY. Renewed May 1, 1930, to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts (1929), assignee.

34,838. CERTAIN NAMED SADDLERY GOODS. Registered July 3, 1900. FAATZ FELTING CO., Lestershire, N. Y. Renewed July 3, 1930, to The Felters Company, Boston, Mass., a Corporation of Massachusetts, successor.

74,792. ROLLER-MILL CASTINGS. Registered August 10, 1909. HUGH WALLACE AITKEN, Glasgow, Scotland. Renewed August 10, 1929, to Hugh Wallace Aitken, Bearsden, Scotland.

75,155. HERRINGS, SARDINES, ANCHOVIES, COD ROE, AND FISH BALLS. Registered September 7, 1909. CONCORD CANNING CO., Stavanger, Norway. Renewed September 7, 1929.

75,836. CANNED SALMON AND DRIED SALT CODFISH. Registered November 23, 1909. AUSTIN, NICHOLS & CO., New York, N. Y. Renewed November 23, 1929, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., a Corporation of Virginia, successor.

76,063. BLENDED TEA. Registered December 14, 1909. AUSTIN, NICHOLS & CO., New York, N. Y. Renewed December 14, 1929, to Austin, Nichols & Co., Inc., Brooklyn, N. Y., a Corporation of Virginia, successor.

76,085. TEA. Registered December 14, 1909. THOMAS WOOD & Co. Renewed December 14, 1929, to Berry, Dodge Company, Boston, Mass., a Corporation of Massachusetts, successor.

76,179. REMEDIES FOR COUGHS, CANKERS, AND DIPHTHERIA. Registered December 21, 1909. SELENA D. HALL. Renewed December 21, 1929, to Sarah Ann Saxton, Salt Lake City, Utah, assignee.

76,350. CANNED SARDINES IN OLIVE OIL. Registered January 11, 1910. AUSTIN, NICHOLS & CO., New York, N. Y. Renewed January 11, 1930, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., a Corporation of Virginia, successor.

76,390. CERTAIN FOODS. Registered January 11, 1910. AUSTIN, NICHOLS & CO., New York, N. Y. Renewed January 11, 1930, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., a Corporation of Virginia, successor.

76,567. WIRE STRINGS FOR MUSICAL INSTRUMENTS. Registered February 1, 1910. FELTEN & GUILLEAUME-LAHMEYERWERKE ACTIEN-GESELLSCHAFT. Renewed February 1, 1930, to Felten & Guilleaume Carlswerk Actiengesellschaft, Mülheim-on-the-Rhine, Germany, a Corporation of Germany, by change of name.

76,573. KNIVES, FORKS, AND SPOONS OF PRECIOUS METAL AND PLATED WARE. Registered February 1, 1910. ROYAL SILVER MANUFACTURING COMPANY, INC., Norfolk, Va., a Corporation of Virginia. Renewed February 1, 1930.

76,577. HAIRPINS. Registered February 1, 1910. WILLIAM H. COLE & CO. LIMITED, London, England. Renewed February 1, 1930, to William H. Cole & Co. Limited, Cheltenham, England, a Corporation of Great Britain.

76,614. CERTAIN FOODS. Registered February 1, 1910. AUSTIN, NICHOLS & CO., New York, N. Y. Renewed February 1, 1930, to Austin, Nichols & Co. Inc., Brooklyn, N. Y., a Corporation of Virginia, successor.

76,705. CERTAIN FOODS. Registered February 8, 1910. THE WILLIAM EDWARDS COMPANY, Cleveland, Ohio, a Corporation of Ohio. Renewed February 8, 1930.

76,739. HOSIERY. Registered February 15, 1910. CHAS. CHIPMANS SONS, Easton and Selinsgrove, Pa. Renewed February 15, 1930, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a Corporation of New York, successor.

76,741. HOSIERY. Registered February 15, 1910. CHAS. CHIPMANS SONS, Easton and Selinsgrove, Pa. Renewed February 15, 1930, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a Corporation of New York, successor.

76,956. MONTHLY MAGAZINE. Registered March 1, 1910. THE AMERICAN NEWS COMPANY, New York, N. Y. Renewed March 1, 1930, to William Stevens, Ltd., London, England, a Corporation of England, assignee.

77,124. HOSIERY. Registered March 15, 1910. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed March 15, 1930, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a Corporation of New York, successor.

77,125. HOSIERY. Registered March 15, 1910. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed March 15, 1930, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a Corporation of New York, successor.

77,201. HOSIERY. Registered March 22, 1910. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed March 22, 1930, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a Corporation of New York, successor.

77,202. CANNED FRUITS AND CANNED VEGETABLES. Registered March 22, 1910. CODE-PORTWOOD CANNING Co., Fruitvale, Calif. Renewed March 22, 1930, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee by mesne assignments.

77,250. ORANGES. Registered March 22, 1910. LINDSAY PRODUCERS ASSOCIATION. Renewed March 22, 1930, to Producers Packing House Company, Lindsay, Calif., a Corporation of California, assignee.

77,296. HOSIERY. Registered March 29, 1910. CHAS. CHIPMAN'S SONS, Easton and Selinsgrove, Pa. Renewed March 29, 1930, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a Corporation of New York, successor.

77,361. WHITE LEAD. Registered March 29, 1910. THE WARREN PAINT COMPANY, Warren, Ohio. Renewed March 29, 1930, to The Ohio Varnish Company, Cleveland, Ohio, a Corporation of Ohio, assignee.

77,384. CERTAIN CLOTHING. Registered April 5, 1910. JOHN WANAMAKER. Renewed April 5, 1930, to John Wanamaker Philadelphia, Philadelphia, Pa., a Corporation of Pennsylvania, assignee.

77,397. FERTILIZERS. Registered April 5, 1910. HOME FERTILIZER & CHEMICAL COMPANY. Renewed April 5, 1930, to Home Fertiliser Company, Incorporated, Baltimore, Md., a Corporation of Maryland, assignee.

77,400. FERTILIZERS. Registered April 5, 1910. HOME FERTILIZER & CHEMICAL COMPANY. Renewed April 5, 1930, to Home Fertiliser Company, Incorporated, Baltimore, Md., a Corporation of Maryland, assignee.

77,455. PHARMACEUTICAL AND TOILET PREPARATIONS AND MEDICINES. Registered April 12, 1910. CARLO ERBA. Renewed April 12, 1930, to Carlo Erba Societa Anonima, Milan, Italy, a Corporation of Italy, assignee.

77,495. CERTAIN FOODS. Registered April 12, 1910. SPERRY FLOUR COMPANY, San Francisco, Calif. Renewed April 12, 1930, to General Mills, Inc., Minneapolis, Minn., a Corporation of Delaware, assignee.

77,626. ELECTRICAL LIGHTING APPARATUS AND STORAGE BATTERIES THEREFOR. Registered April 26, 1910. THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia, Pa., a Corporation of New Jersey. Renewed April 26, 1930.

77,702. SOAPS. Registered May 3, 1910. F. C. CALVERT & Co. Renewed May 3, 1930, to F. C. Calvert & Co. Limited, Manchester, England, a Corporation of Great Britain, assignee.

77,725. CANNED OYSTERS. Registered May 3, 1910. GIBBS PRESERVING COMPANY. Renewed May 3, 1930, to Gibbs & Company, Incorporated, Baltimore, Md., a Corporation of Maryland, assignee.

77,911. A COMBINATION OF REMEDIAL AGENTS. Registered May 17, 1910. F. H. STRONG COMPANY, New York, N. Y., a Corporation of New York. Renewed May 17, 1930.

78,167. SALT. Registered May 31, 1910. DIAMOND CRYSTAL SALT COMPANY, St. Clair, Mich., a Corporation of Michigan. Renewed May 31, 1930.

78,180. A CERTAIN POWDER. Registered May 31, 1910. INTERNATIONAL PULP COMPANY, New York, N. Y., a Corporation of New York. Renewed May 31, 1930.

78,365. WIRE ROPE. Registered June 7, 1910. THE TRENTON IRON COMPANY, Trenton, N. J., and New York, N. Y. Renewed June 7, 1930, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a Corporation of New Jersey, assignee.

78,431. A BLEND OF STRAIGHT SCOTCH WHISKIES. Registered June 14, 1910. ROBERT MCNISH & Co. Renewed June 14, 1930, to Robert McNish & Co. Ltd., Glasgow, Scotland, a Corporation of Great Britain, successor.

78,479. WHEAT FLOUR. Registered June 21, 1910. AMENDT MILLING COMPANY, Monroe, Mich., a Corporation of Michigan. Renewed June 21, 1930.

78,485. POLISHES. Registered June 21, 1910. BEN-HUR METAL POLISH COMPANY, Crawfordsville, Ind., a Corporation of Indiana. Renewed June 21, 1930.

78,556. A BLEND OF STRAIGHT SCOTCH WHISKIES. Registered June 21, 1910. JOHN WALKER & SONS, LIMITED, Kilamock, Scotland, and London, England. Renewed June 21, 1930, to John Walker & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

78,559. PAVEMENTS AND PAVING MATERIAL CONTAINING BITUMINOUS MATTER. Registered June 21, 1910. WARREN BROTHERS COMPANY, Boston, Mass. Renewed June 21, 1930, to Warren Brothers Company, Cambridge, Mass., a Corporation of West Virginia.

78,619. LAWN GRASS SEED. Registered June 28, 1910. THE J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio, a Corporation of Ohio. Renewed June 28, 1930.

78,620. LAWN GRASS SEED. Registered June 28, 1910. THE J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio, a Corporation of Ohio. Renewed June 28, 1930.

78,781. CERTAIN RECEPTACLES. Registered July 5, 1910. NORVELL-SHAPLEIGH HARDWARE COMPANY. Renewed July 5, 1930, to Shapleigh Hardware Company, St. Louis, Mo., a Corporation of Missouri, by change of name.

78,876. CERTAIN HEATING APPARATUS. Registered July 19, 1910. THE GRAFF COMPANY, Pittsburgh, Pa., a Corporation of Pennsylvania. Renewed July 19, 1930.

78,981. ALKALINE SALTS. Registered July 26, 1910. ABRAM G. LANSING. Renewed July 26, 1930, to The A. G. Lansing Company, New York, N. Y., a Corporation of New York, assignee.

79,013. CREAM SEPARATORS. Registered July 26, 1910. SEARS, ROEBUCK AND CO., Chicago, Ill., a Corporation of New York. Renewed July 26, 1930.

79,019. WOMEN'S AND MEN'S GLOVES. Registered July 26, 1910. JOHN WANAMAKER NEW YORK, New York, N. Y., a Corporation of New York. Renewed July 26, 1930.

79,086. CERTAIN COTTON CLOTH. Registered August 2, 1910. TINGUE, BROWN & CO., New York, N. Y., a Corporation of New York. Renewed August 2, 1930.

79,117. A DISINFECTANT FOR EXTERMINATING INSECTS. Registered August 9, 1910. FRED F. FREITHOFER, Pittsburgh, Pa. Renewed August 9, 1930.

79,279. BLENDED COFFEE AND TEA, FLAVORING EXTRACTS, AND SPICES. Registered August 23, 1910. HANLEY & KINSELLA COFFEE & SPICE COMPANY, St. Louis, Mo., a Corporation of Missouri. Renewed August 23, 1930.

79,284. WATCHCASES AND WATCH MOVEMENTS. Registered August 23, 1910. ILLINOIS WATCH CASE COMPANY, Elgin, Ill., a Corporation of Illinois. Renewed August 23, 1930.

79,328. CHOCOLATES. Registered August 30, 1910. DILLING & COMPANY, Indianapolis, Ind., a Corporation of Indiana. Renewed August 30, 1930.

79,410. HORSE NAILS. Registered September 6, 1910. THE CAPEWELL HORSE NAIL COMPANY, Hartford, Conn., a Corporation of Connecticut. Renewed September 6, 1930.

79,421. HORSE NAILS. Registered September 6, 1910. THE CAPEWELL HORSE NAIL COMPANY, Hartford, Conn., a Corporation of Connecticut. Renewed September 6, 1930.

79,442. BEER. Registered September 6, 1910. OSHKOSH BREWING CO., Oshkosh, Wis., a Corporation of Wisconsin. Renewed September 6, 1930.

79,445. CERTAIN NAMED PAPER, ENVELOPS, AND TABLETS. Registered September 6, 1910. POWERS PAPER COMPANY, ASSOCIATES, Springfield, Mass., and New York, N. Y. Renewed September 6, 1930, to Powers Paper Company, Associates, Springfield, Mass., an Association of Massachusetts.

79,446. VARNISH. Registered September 6, 1910. PRATT & LAMBERT, INC., Buffalo, N. Y., a Corporation of New York. Renewed September 6, 1930.

79,473. WHEAT FLOUR. Registered September 13, 1910. CROOKSTON MILLING CO., Crookston, Minn., a Corporation of Minnesota. Renewed September 13, 1930.

79,520. VARNISH. Registered September 13, 1910. PRATT & LAMBERT, INC., Buffalo, N. Y., a Corporation of New York. Renewed September 13, 1930.

79,521. VARNISH. Registered September 13, 1910. PRATT & LAMBERT, INC., Buffalo, N. Y., a Corporation of New York. Renewed September 13, 1930.

79,522. LIQUID DRIER. Registered September 13, 1910. PRATT & LAMBERT, INC., Buffalo, N. Y., a Corporation of New York. Renewed September 13, 1930.

79,531. WHEAT FLOUR. Registered September 13, 1910. JOHN W. STEPHENSON, Little Falls, Minn. Renewed September 13, 1930, to Northwestern Milling Co., Minneapolis, Minn., a Corporation of Minnesota, successor.

LABELS

REGISTERED APRIL 22, 1930

37,348.—*Title:* GOLDEN PHEASANT. For Automobile Polish. ASHWORTH ADVERTISING COMPANY, INCORPORATED, New York, N. Y. Published March 18, 1930.

37,349.—*Title:* LIMABEEN TOAST. For Toast. WILLIAM C. BAKER, doing business as Bill Baker, Ojai, Calif. Published December 10, 1929.

37,350.—*Title:* NEW AMSTERDAM. For Crushed Fruits. H. BARON & COMPANY INC., Brooklyn, N. Y. Published November 22, 1929.

37,351.—*Title:* NEW AMSTERDAM. For Fountain Syrups. H. BARON & COMPANY INC., Brooklyn, N. Y. Published November 22, 1929.

37,352.—*Title:* SPINNING WHEEL. For Fresh Citrus Fruits. BRADENTOWN CITRUS GROWERS ASSOCIATION, Bradentown, Fla. Published May 15, 1929.

37,353.—*Title:* HONEY BEE HIVE. For Honey and Peanut Butter. THE BRUNDAGE BROTHERS COMPANY, Toledo, Ohio. Published February 20, 1930.

37,354.—*Title:* THE PEAK OF PERFECTION. For Cheese. DANIEL A. CONNELL, Chicago, Ill. Published December 3, 1929.

37,355.—*Title:* FREIHOFER'S RAISIN WHOLE WHEAT LOAF. For Bread. CHAS. FREIHOFER BAKING CO. INC., Troy, N. Y. Published February 20, 1930.

37,356.—*Title:* PIXIE STRAINED SPINACH. For Strained Spinach. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,357.—*Title:* PIXIE STRAINED TOMATOES. For Strained Tomatoes. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,358.—*Title:* PIXIE STRAINED TOMATOES. For Strained Tomatoes. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,359.—*Title:* PIXIE STRAINED SPINACH. For Strained Spinach. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,360.—*Title:* PIXIE STRAINED CELERY SOUP. For Strained Celery Soup. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,361.—*Title:* PIXIE STRAINED BEETS. For Strained Beets. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,362.—*Title:* PIXIE STRAINED WAX BEANS. For Strained Wax Beans. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,363.—*Title:* PIXIE STRAINED PEAS. For Strained Peas. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,364.—*Title:* PIXIE STRAINED APPLE SAUCE. For Strained Apple Sauce. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,365.—*Title:* PIXIE STRAINED VEGETABLE SOUP. For Strained Vegetable Soup. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 20, 1930.

37,366.—*Title:* PIXIE STRAINED CARROTS. For Strained Carrots. FRUIT BELT PRESERVING COMPANY, East Williamson, N. Y. Published January 29, 1930.

37,367.—*Title:* BIG ALARM. For Candy. GENERAL CANDY CORPORATION, Chicago, Ill. Published March 8, 1930.

37,368.—*Title:* GLOVE BRAND. For Storm Footwear. GOODYEAR'S INDIA RUBBER GLOVE MFG. CO., Naugatuck, Conn. Published February 1, 1930.

37,369. *Title:* HALL BROS. For Woolen Goods. HALL BROTHERS, Norwich, Conn. Published November 1, 1929.

37,370.—*Title:* TALKIE. For Candy. JOHN D. HAMILTON CO., Tacoma, Wash. Published February 6, 1930.

37,371.—*Title:* KING PICK. For Sweet Mixed Pickles. KING FULLER CRANDELL CO., Chicago, Ill. Published March 1, 1930.

37,372.—*Title:* LARVEX. For Mothproofing Compound. THE LARVEX CORPORATION, New York, N. Y. Published January 9, 1929.

37,373.—*Title:* VITALIS. For Hair Tonic. LEWIS BROS., INC., New York, N. Y. Published November 15, 1929.

37,374.—*Title:* VITALIS. For Hair Tonic. LEWIS BROS., INC., New York, N. Y. Published November 15, 1929.

37,375.—*Title:* LIFE SAVERS. For Packaged Confectionery. LIFE SAVERS, INC., Port Chester, N. Y. Published October 18, 1929.

37,376.—*Title:* INSTANT TYPE CLEANER AND RUBBER PLATEN RENEWER. For a Preparation for Cleaning Typewriter Type and Renewing Rubber Platen. ENRIQUE J. MALABIN, San Francisco, Calif. Published December 31, 1929.

37,377.—*Title:* MANISCHEWITZ'S WHOLE WHEAT MATZO MEAL. For Matzo Meal. THE B. MANISCHEWITZ COMPANY, Cincinnati, Ohio. Published February 10, 1930.

37,378.—*Title:* MANNINGS TEA REFRESHING AS THE DAWN. For Tea. MANNINGS INC., San Francisco, Calif. Published March 5, 1930.

37,379.—*Title:* MANNINGS TEA REFRESHING AS THE DAWN. For Tea. MANNINGS INC., San Francisco, Calif. Published March 5, 1930.

37,380.—*Title:* LILAC. For Toilet Water. PETER C. MARIE, doing business as "Marie's" Manufacturing Co., Pittsburgh, Pa. Published January 6, 1930.

37,381.—*Title:* MILK SHADE. For Candy Bars. F. A. MARTOCCIO COMPANY, Minneapolis, Minn. Published November 9, 1929.

37,382.—*Title:* ORIGINAL CANADIAN. For Barley Malt Syrup. CHARLES MESSINGER, Rochester, N. Y. Published January 10, 1926.

37,383.—*Title:* F & F COUGH LOZENGES. For Cough Lozenges. ORGAN-IRON LABORATORIES, Omaha, Nebr. Published March 6, 1930.

37,384.—*Title:* RINO. For Orange Salt. RINO LABORATORIES CO., Los Angeles, Calif. Published February 15, 1930.

37,385.—*Title:* MARCELADE. For Marcel-Waving Preparation. ATTILIO TAGLIANETTI, Philadelphia, Pa. Published February 27, 1930.

37,386.—*Title:* VITABAR. For Candy Confection. THE TROPICAL VITAMIN CO., INC., Orlando, Fla. Published January 7, 1930.

37,387.—*Title:* MAYPOLE SWEETS. For Maypole Sweets, a Confection. FRED. W. WHILES, Los Angeles, Calif. Published October 15, 1929.

37,388.—*Title:* WILSON'S LARGE CARTON. For Honey Butterscotch (a Confection). GEORGE C. WILSON, doing business as The Wilson Chemical Company and The Wilson Products Company, Tyrone, Pa. Published December 15, 1929.

37,389.—*Title:* WILSON'S SMALL CARTON. For Honey Butterscotch (a Confection). GEORGE C. WILSON, doing business as The Wilson Chemical Company, and The Wilson Products Company, Tyrone, Pa. Published December 15, 1929.

PRINTS

REGISTERED APRIL 22, 1930

12,484.—*Title:* FRIENDSHIP. For Perfume, Cleansing Cream, Skin Tonic, Special Astringent, and Muscle Oil. ELIZABETH ARDEN INC., doing business as Elizabeth Arden, New York, N. Y. Published January 18, 1930.

12,485.—*Title:* DREAMS. For Perfume. ELIZABETH ARDEN INC., doing business as Elizabeth Arden, New York, N. Y. Published December 28, 1929.

12,486.—*Title:* PAUL J. HAECKER CONSTRUCTION CO. For Garages. PAUL J. HAECKER CONSTRUCTION CO., Detroit, Mich. Published February 25, 1930.

12,487.—*Title:* PAUL J. HAECKER CONSTRUCTION CO. For Garages. PAUL J. HAECKER CONSTRUCTION CO., Detroit, Mich. Published February 25, 1930.

12,488.—*Title:* PAUL J. HAECKER CONSTRUCTION CO. For Garages. PAUL J. HAECKER CONSTRUCTION CO., Detroit, Mich. Published February 25, 1930.

12,489.—*Title:* PAUL J. HAECKER CONSTRUCTION CO. For Garages. PAUL J. HAECKER CONSTRUCTION CO., Detroit, Mich. Published February 25, 1930.

12,490.—*Title:* SPHINX. For Prophylactic Rubber Articles for Prevention of Contagious Diseases. L. HILSENBECK, INC., New York, N. Y. Published January 19, 1930.

12,491.—*Title:* 300% PROFIT. For Prophylactic Rubber Articles for Prevention of Contagious Diseases. L. HILSENBECK, INC., New York, N. Y. Published January 19, 1930.

12,492.—*Title:* RAMSES—ORIGINAL TRANSPARENT. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. L. HILSENBECK, INC., New York, N. Y. Published January 19, 1930.

12,493.—*Title:* RAMSES. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. L. HILSENBECK, INC., New York, N. Y. Published January 19, 1930.

12,494.—*Title:* APOLLOS. For Prophylactic Rubber Articles for the Prevention of Contagious Diseases. L. HILSENBECK, INC., New York, N. Y. Published January 19, 1930.

12,495.—*Title:* ALREADY THE TOAST OF PHILADELPHIA. For Nonalcoholic Drinks and Beverages. HOFFMAN BEVERAGE COMPANY, Newark, N. J. Published March 1, 1930.

12,496.—*Title:* IN MEMORY OF OUR DEARLY BELOVED. For Memorial Certificate. PHILADELPHIA MEMORIAL ART CO., Philadelphia, Pa. Published August 24, 1928.

12,497.—*Title:* B & J AUTO AWNINGS. For Automobile Awnings. WESTERN STATES AUTO AWNING COMPANY, Los Angeles, Calif. Published March 12, 1930.

REISSUES

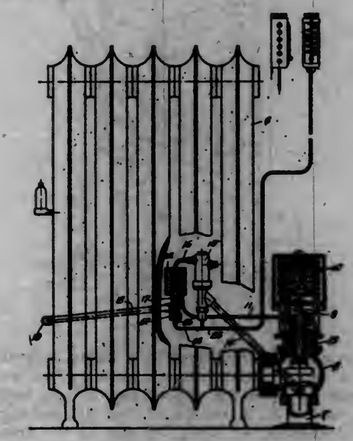
APRIL 22, 1930

17,645. TOILET-SEAT ACCESSORY. JUSTIN NEALL BARKER and MARJORIE NUTTING BARKER, Santa Monica, Calif. Filed Feb. 5, 1929. Serial No. 337,715. Original No. 1,682,592, dated Aug. 28, 1928, Serial No. 171,550, filed Feb. 28, 1927. 8 Claims. (Cl. 242—55.5.)



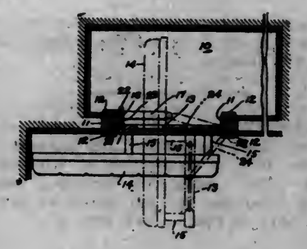
6. A toilet seat accessory comprising: a semi-cylindrical hollow body; flanged end caps for said body; upwardly opening bearings on said end caps; a roller having spindles in said bearings, said end caps being adapted to allow passage of the spindles for insertion and removal of the roller; and a semi-cylindrical hollow closure mounted in the housing and provided with open bearings adapted to rest upon the spindles when the closure is closed and adapted to release the spindles when the closure is open.

17,646. TEMPERATURE-CONTROLLING APPARATUS. EMIL T. JOHNSSON, Chicago, Ill. Filed Jan. 21, 1930. Serial No. 422,689. Original No. 1,682,227, dated Aug. 28, 1928, Serial No. 95,910, filed Mar. 19, 1926. 17 Claims. (Cl. 236—42.)



1. In an apparatus of the character set forth, the combination of a heat exchange member, a supply for said member, a supply valve, an expansion member for opening said valve, a chamber connected with said expansion member but remote therefrom, liquid in said chamber and expansion member, a passageway from the supply through the chamber to the heat exchange member for supplying heat to said chamber, a valve for controlling said heat supply to the chamber, and thermostatic means for actuating said valve.

17,647. DISAPPEARING BED. ABRAHAM L. JONES, Logansport, Ind. Filed Oct. 5, 1927. Serial No. 224,246. Original No. 1,595,944, dated Aug. 10, 1926, Serial No. 48,772, filed Aug. 7, 1925. 6 Claims. (Cl. 5—171.)



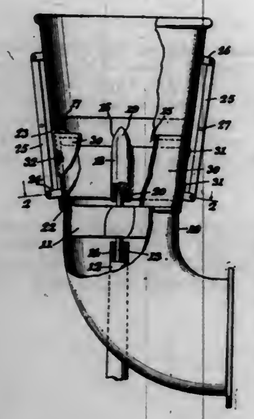
1. In a disappearing bed, the combination with a reversible door, of a door frame, a bed attached to the said door, the said bed being wider than the door and frame and projecting beyond one side of the door, a U-shaped door carrying member having a vertically disposed portion normally arranged adjacent to one edge of the door and movable with the door, double hinge devices connecting the said vertical portion of said member and the adjacent edge of the door, the said U-shaped member being construceed with lateral portions having their ends pivotally connected with the floor and door frame, said pivotal points having fixed positions, and radius bars located at the top and bottom of the door, each radius bar having one end pivotally attached to the door and midway between the sides of the door and movable with the door, and the other end pivotally connected with the frame structure of the door.

17,648. PUMP. HENRY F. SCHMIDT, Lansdowne, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 12, 1930. Serial No. 435,877. Original No. 1,747,848, dated Feb. 18, 1930, Serial No. 350,762, filed Mar. 28, 1929. 4 Claims. (Cl. 230—120.)

1. In apparatus of the character described, the combination of a housing, a propeller in the housing, guide vane means arranged in the housing and cooperating with the propeller, means providing for axial movement of the

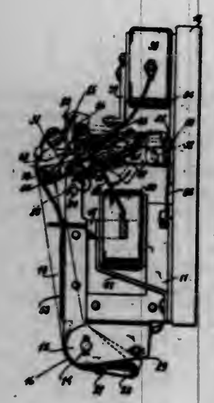
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guide vane means toward and away from the propeller, said housing having an opening arranged to permit of



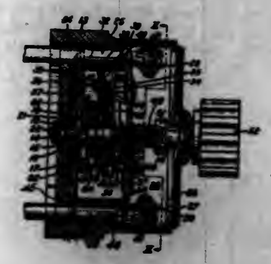
the passage therethrough of the propeller when the guide vane means is moved away from the propeller, and means for closing said opening.

17,649. ELECTRICAL SWITCH. GUSTAV O. WILMS, Milwaukee, Wis., assignor to The Reliance Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 21, 1929. Serial No. 348,929. Original No. 1,629,756, dated May 24, 1927, Serial No. 461,288, filed Apr. 14, 1921. 16 Claims. (Cl. 200—97.)



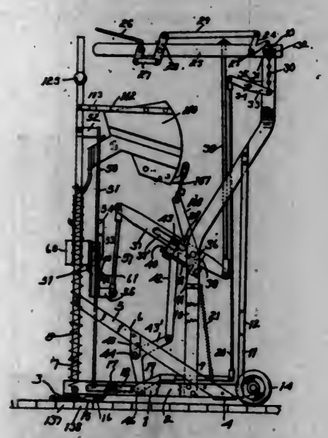
6. In a mechanically held magnetic switch, a member movable to and from closing position, a closing magnet coil, releasable means for retaining the switch closed, a tripping magnet coil for means, said coils being included within suitable electric circuits, and means operable by said switch member for opening and closing the circuits of said magnet coils, said last mentioned means including parts of nertia of which tends to delay the opening and closing of said coil circuits.

17,650. SWITCH MECHANISM. JULIAN H. KENDIG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 12, 1930. Serial No. 427,918. Original No. 1,678,882, dated July 31, 1928, Serial No. 520,563, filed Dec. 7, 1921. 37 Claims. (Cl. 200—124.)



1. The combination with a switch member adapted to be progressively moved to open and to closed positions with a snap-action, and manually operable means for arresting the switch member in predetermined positions, of a terminal-responsive means for actuating them anually operable means for releasing the switch member.

17,651. HARDWARE-FLOOR-NAILING MACHINE. WALTER W. VILNEAU and ELBERT CHITTENDEN, Palo Alto, Calif., assignors of one-third to Henry E. Jensen, one-third to Wells P. Goodenough, and one-third to Walter W. Vilneau, Palo Alto, Calif. Filed Dec. 27, 1928. Serial No. 328,672. Original No. 1,671,660, dated May 29, 1928, Serial No. 198,472, filed June 13, 1927. 15 Claims. (Cl. 1—46.)



15. In a floor nailing machine, a frame, a chuck in said frame, a nail receiving hopper, means to feed nails from the hopper to the chuck, a vertically movable hammer for driving said nails, means for raising said hammer, means for intermittently elevating an end of the frame after each driving operation, and means connecting the hammer raising means and the elevating means for actuating the latter when the hammer is raised to its driving position, and means for shifting said frame while the same is in its elevated position.

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DESIGNS

APRIL 22, 1930

80,993. CANDLESTICK OR ARTICLE OF ANALOGOUS NATURE. FRANK J. ABEL, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc., a Corporation of New York. Filed Feb. 6, 1930. Serial No. 34,442. Term of patent 3½ years.



The ornamental design for a candlestick or article of analogous nature substantially as shown.

80,994. CURTAIN-POLE END PIECE. WALTER C. ASTRUP, Cleveland, Ohio. Filed Oct. 17, 1929. Serial No. 33,074. Term of patent 7 years.



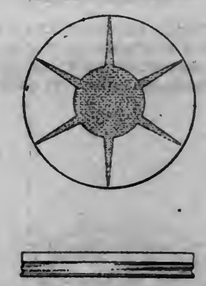
The ornamental design for a curtain pole end piece, as shown.

80,995. CURTAIN-POLE END PIECE. WALTER C. ASTRUP, Cleveland, Ohio. Filed Oct. 17, 1929. Serial No. 33,075. Term of patent 7 years.



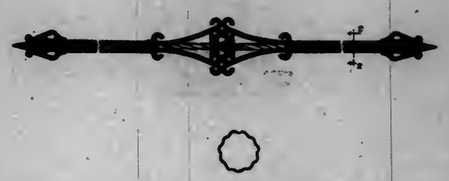
The ornamental design for a curtain pole end piece, as shown.

80,996. JAR COVER OR SIMILAR ARTICLE. WILLIAM A. BOYD, Detroit, Mich. Filed May 6, 1929. Serial No. 31,115. Term of patent 14 years.



The ornamental design for a jar cover or similar article, as shown.

80,997. CURTAIN ROD OR SIMILAR ARTICLE. JAMES H. BOYD, Chicago, Ill. Filed Feb. 27, 1930. Serial No. 34,673. Term of patent 7 years.



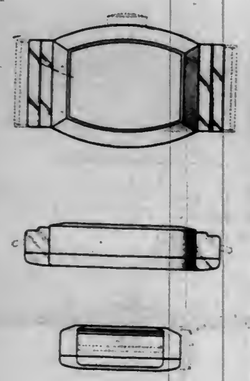
The ornamental design for a curtain rod or similar article, as shown.

80,998. LADY'S UNDERGARMENT. JULES CHASE, Bronx, N. Y. Filed June 15, 1929. Serial No. 31,699. Term of patent 8½ years.



The ornamental design for a lady's undergarment, as shown.

80,999. WATCHCASE. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Aug. 8, 1929. Serial No. 32,331. Term of patent 14 years.



The ornamental design for a watch case, substantially as shown.

81,000. LIGHTING STANDARD. RALPH W. ERSKINE, Mishawaka, Ind., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed July 16, 1929. Serial No. 32,088. Term of patent 7 years.



The ornamental design for a lighting standard substantially as shown.

81,001. LAMP BASE OR SIMILAR ARTICLE. JULIUS FELEK, New York, N. Y., assignor to Metropolitan Lamp Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 9, 1930. Serial No. 34,062. Term of patent 8½ years.



The ornamental design for a lamp base or similar article substantially as shown and described.

81,002. FOUNTAIN PEN OR SIMILAR ARTICLE. MONROE GOLD, Brooklyn, N. Y. Filed Feb. 10, 1930. Serial No. 34,464. Term of patent 14 years.



The ornamental design for a fountain pen or similar article, as shown.

81,003. LIGHTING UNIT. CARL F. HAAS, South Bend, Ind., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 20, 1930. Serial No. 34,189. Term of patent 14 years.



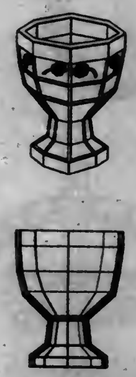
The ornamental design for a lighting unit substantially as shown.

81,004. FLOOR LAMP OR SIMILAR ARTICLE. CROMWELL A. B. HALVORSON, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 16, 1929. Serial No. 33,803. Term of patent 14 years.



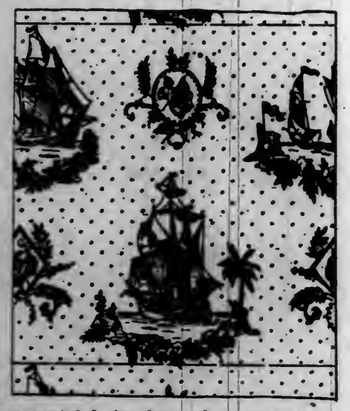
The ornamental design for a floor lamp or similar article as shown.

81,005. PASTRY CUP. ERNEST HAMWI, St. Louis, Mo. Filed Jan. 9, 1930. Serial No. 34,064. Term of patent 14 years.



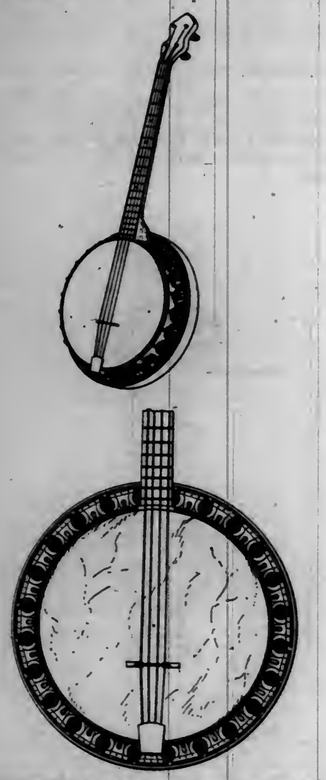
The ornamental design for a pastry cup, substantially as shown.

81,006. WALL PAPER. ERIC ARNOLD HAWARD, Chiswick, England, assignor to W. H. S. Lloyd Co., Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1929, Serial No. 31,296, and in Great Britain Mar. 28, 1929. Term of patent 7 years.



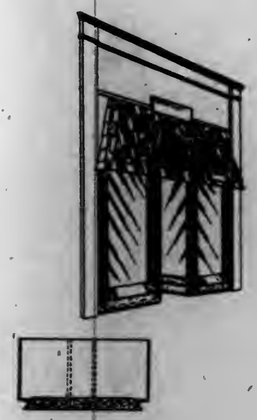
The ornamental design for wall-paper, as shown and described.

81,007. BANJO OR SIMILAR ARTICLE. ALBERT E. HUNTER, Oak Park, Ill., assignor to Regal Musical Instrument Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 14, 1928. Serial No. 28,143. Term of patent 14 years.



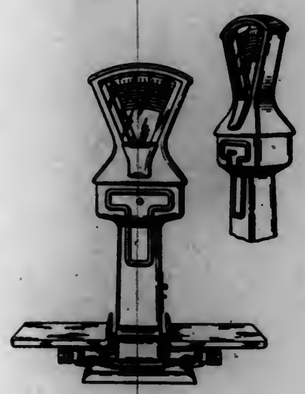
The ornamental design for a banjo or similar article as shown.

81,008. STORE FRONT. EDWARD L. ILSON, Patchogue, N. Y. Filed May 28, 1929. Serial No. 31,442. Term of patent 7 years.



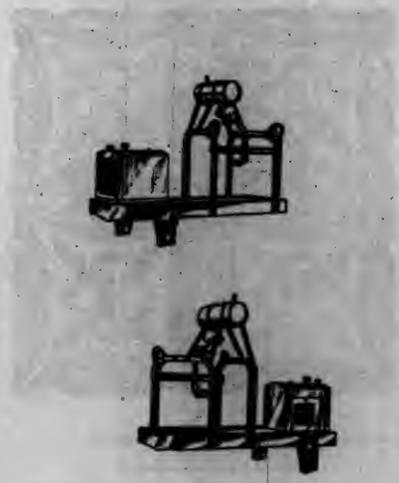
The ornamental design for a store front as shown.

81,009. SCALE. BERT W. KING, Detroit, Mich., assignor to Barnes Scale Company, Detroit, Mich., a Corporation of Michigan. Filed June 10, 1929. Serial No. 31,609. Term of patent 7 years.



The ornamental design for a scale substantially as shown.

81,010. COMBINED CONCRETE-MIXER TRUCK BODY AND FRAME. PHILIP A. KOEHRING, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Mar. 27, 1926. Serial No. 17,078. Term of patent 14 years.



The ornamental design for a combined concrete mixer truck body and frame as shown.

81,011. LAMP OR SIMILAR ARTICLE. ERIC LAUDEL, Bronx, N. Y., assignor to Art Metal Spinning Co., New York, N. Y., a Firm composed of Eugene Stork and Eric Laudell. Filed Dec. 21, 1929. Serial No. 33,879. Term of patent 3½ years.



The ornamental design for a lamp or similar article, substantially as shown.

81,012. TOY. ALBERT T. LINNEY, Lexington, Ky. Filed Jan. 28, 1930. Serial No. 34,245. Term of patent 7 years.



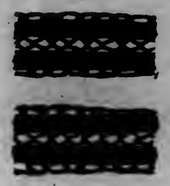
The ornamental design for a toy, as shown.

81,013. BRAID. CLARENCE LIPPER, Philadelphia, Pa. Filed Aug. 30, 1928. Serial No. 27,990. Term of patent 3½ years.



The ornamental design for braid as shown.

81,014. BRAID. CLARENCE LIPPER, Philadelphia, Pa. Filed Aug. 30, 1928. Serial No. 27,991. Term of patent 3½ years.



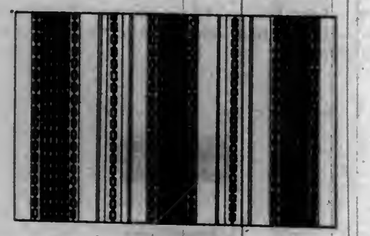
The ornamental design for braid, as shown.

81,015. TEXTILE FABRIC. BENJAMIN S. NASH, Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed July 24, 1929. Serial No. 32,177. Term of patent 14 years.



The ornamental design for a textile fabric substantially as shown and described.

81,016. TICKING FABRIC. BENJAMIN S. NASH, Short Hills, N. J., assignor to The Stearns & Foster Company, Lockland, Ohio, a Corporation of Ohio. Filed July 24, 1929. Serial No. 32,179. Term of patent 3½ years.



The ornamental design for ticking fabric substantially as shown.

81,017. CABINET FOR RADIO RECEIVING SETS. CARL M. OLSEN, Chicago, Ill., assignor to A. J. Johnson & Sons Furniture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 13, 1930. Serial No. 34,119. Term of patent 3½ years.



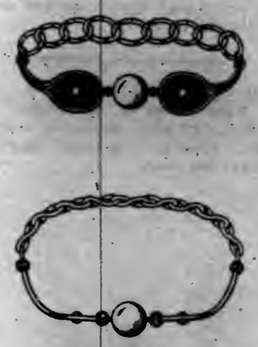
The ornamental design for a cabinet for radio receiving sets, as shown.

81,018. LACE. GEORGE RADFORD, Apponaug, R. I., assignor to Richmond Lace Works, Inc., Alton, R. I., a Corporation of Massachusetts. Filed Jan. 20, 1930. Serial No. 34,197. Term of patent 3½ years.



The ornamental design for lace as shown.

81,019. BRACELET OR SIMILAR ARTICLE. WILLIAM REICHERT, Mamaroneck, N. Y. Filed Jan. 21, 1930. Serial No. 34,203. Term of patent 3½ years.



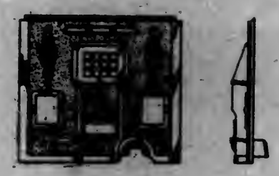
The ornamental design for a bracelet or similar article substantially as shown.

81,020. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed Feb. 19, 1930. Serial No. 34,593. Term of patent 7 years.



The ornamental design for a shoe buckle, as shown.

81,021. FRONT PANEL OF A GAME DEVICE. DAVID C. ROCKOLA, Chicago, Ill. Filed Oct. 18, 1929. Serial No. 33,095. Term of patent 3½ years.



The ornamental design for a front panel of a game device as shown.

81,022. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. FREDERICK W. ROETTGES, Brooklyn, N. Y., assignor to Lighting Appliance Company, Inc., New York, N. Y. Filed Jan. 30, 1930, Serial No. 34,351, and in Canada Dec. 4, 1929. Term of patent 3½ years.



The ornamental design for a lighting fixture of article of similar nature, as shown and described.

81,023. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. FREDERICK W. ROETTGES, Brooklyn, N. Y., assignor to Lighting Appliance Company, Inc., New York, N. Y. Filed Jan. 30, 1930. Serial No. 34,353. Term of patent 3½ years.



The ornamental design for a lighting fixture, or article of similar nature, as shown and described.

81,024. LIGHTING FIXTURE OR ARTICLE OF SIMILAR NATURE. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Dec. 20, 1929. Serial No. 33,867. Term of patent 3½ years.



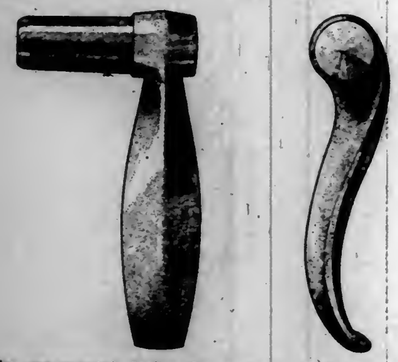
The ornamental design for a lighting fixture, or article of similar nature, as shown.

81,025. NECKTIE HANGER. JULIA C. SALZMAN, Toledo, Ohio. Filed Feb. 14, 1930. Serial No. 34,549. Term of patent 7 years.



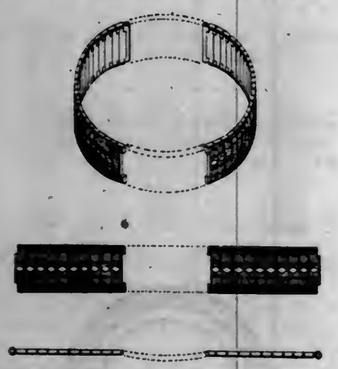
The ornamental design for a neck tie hanger, substantially as shown.

81,026. DOOR HANDLE OR SIMILAR ARTICLE FOR AN AUTOMOTIVE VEHICLE. WILLIAM SCHNELL, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 17, 1930. Serial No. 34,164. Term of patent 7 years.



The ornamental design for a door handle or similar article for an automotive vehicle substantially as shown.

81,027. WATCH BRACELET OR SIMILAR ARTICLE. CARL SCHRAYSSHUEN, Providence, R. I., assignor to Speidel Chain Company, Providence, R. I., a Firm comprising Frederic Speidel and Eugen Speidel. Filed July 12, 1929. Serial No. 32,014. Term of patent 7 years.



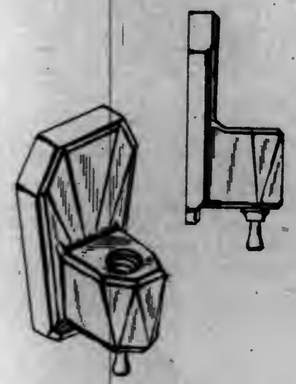
The ornamental design for a watch bracelet or similar article, as shown.

81,028. WOVEN FABRIC. FRED SCHULTHEISS, Woodhaven, N. Y. Filed July 20, 1928. Serial No. 27,539. Term of patent 7 years.



The ornamental design for a woven fabric, as shown.

81,029. ELECTRIC FIXTURE. SOLOMON SHARLIN, Trenton, N. J. Filed Dec. 9, 1929. Serial No. 33,725. Term of patent 3½ years.



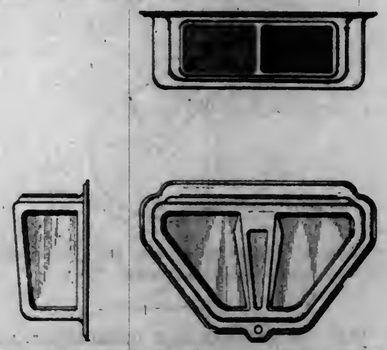
The ornamental design for an electric fixture as shown.

81,030. LOUD-SPEAKER. JOHN MCWILLIAMS STONE, St. Charles, Ill., assignor to Operadio Manufacturing Co., St. Charles, Ill., a Corporation of Illinois. Filed July 26, 1929. Serial No. 32,216. Term of patent 14 years.



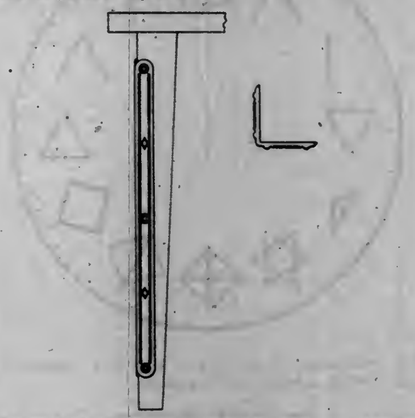
The ornamental design for a loud speaker, as shown.

81,031. RECEPTACLE FOR SMOKERS' USE AND ARTICLES. GERTRUDE E. THOMPSON, Elgin, Ill., assignor to Van Sicklen Corporation, Elgin, Ill., a Corporation of Delaware. Filed Feb. 5, 1930. Serial No. 34,407. Term of patent 7 years.



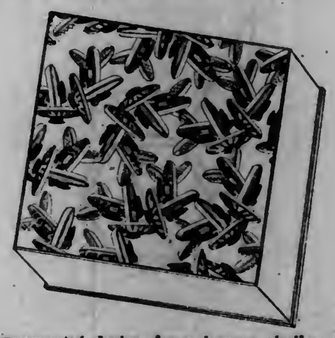
The ornamental design for a receptacle for smokers' use and articles as shown.

81,032. DESK PROTECTOR. HARRY L. TODD, Los Angeles, Calif. Filed June 17, 1929. Serial No. 31,727. Term of patent 14 years.



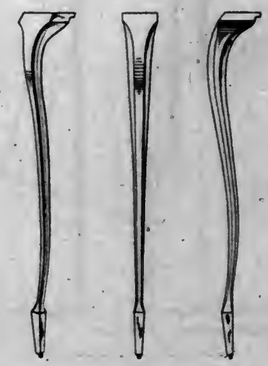
The ornamental design for a desk protector, as shown.

81,033. BOX OR SIMILAR ARTICLE. FERNAND TOURTOIS, New York, N. Y., assignor to Coty, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1929. Serial No. 33,882. Term of patent 14 years.



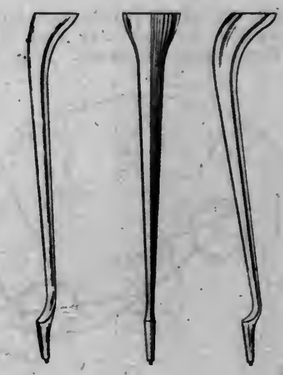
The ornamental design for a box or similar article as shown.

81,034. LAVATORY LEG. HARRY R. TROUT, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 26, 1929. Serial No. 30,623. Term of patent 3½ years.



The ornamental design for a lavatory leg, substantially as shown.

81,035. LAVATORY LEG. HARRY R. TROUT, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 26, 1929. Serial No. 30,624. Term of patent 3½ years.



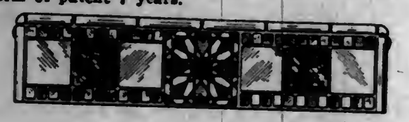
The ornamental design for a lavatory leg, substantially as shown.

81,036. LIGHTING FIXTURE ARM OR ARTICLE OF SIMILAR NATURE. BERNHARD E. ULVAD, Long Island City, N. Y., assignor to Ruby Lamp Mfg. Co. Inc., New York, N. Y. Filed Feb. 10, 1930. Serial No. 34,468. Term of patent 3½ years.



The ornamental design for a lighting fixture arm or article of similar nature, as shown.

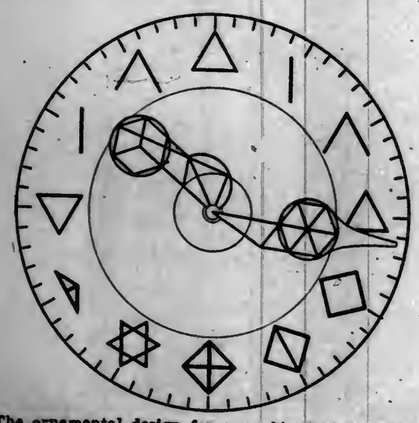
81,037. FERNERY. ARTHUR F. WALKERDINE, San Francisco, Calif. Filed Feb. 10, 1930. Serial No. 34,471. Term of patent 7 years.





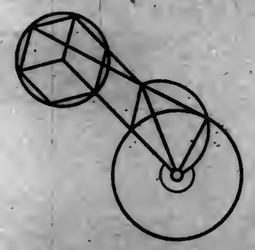
The ornamental design for a fernery as shown and described.

81,038. COMBINED DIAL AND HANDS FOR A TIMEPIECE. THOMAS T. WYNN, New York, N. Y. Filed Nov. 18, 1929. Serial No. 33,492. Term of patent 7 years.



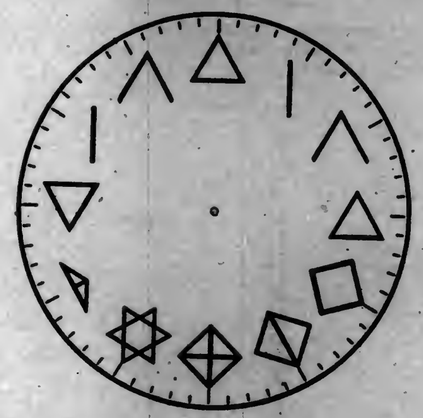
The ornamental design for a combined dial and hands for a timepiece, as shown.

81,039. HAND FOR A TIMEPIECE OR SIMILAR ARTICLE. THOMAS T. WYNN, New York, N. Y. Filed Dec. 16, 1929. Serial No. 33,804. Term of patent 7 years.



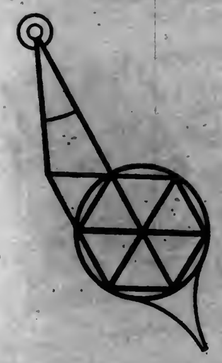
The ornamental design for a hand for a timepiece or similar article, substantially as shown.

81,040. DIAL OF A TIMEPIECE OR SIMILAR ARTICLE. THOMAS T. WYNN, New York, N. Y. Filed Dec. 16, 1929. Serial No. 33,805. Term of patent 7 years.



The ornamental design for a dial of a timepiece, or similar article, substantially as shown.

81,041. HAND FOR A TIMEPIECE OR SIMILAR ARTICLE. THOMAS T. WYNN, New York, N. Y. Filed Feb. 12, 1930. Serial No. 34,510. Term of patent 7 years.



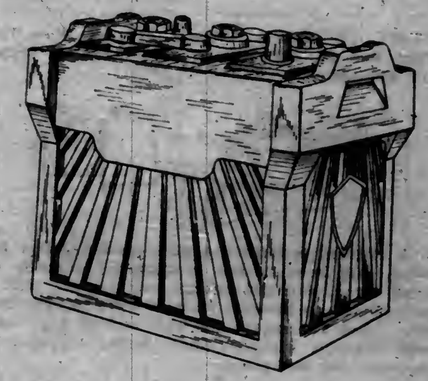
The ornamental design for a hand for a timepiece or similar article, substantially as shown.

81,042. PILE FABRIC. WINOLD REISS, New York, N. Y. Filed July 30, 1929. Serial No. 32,246. Term of patent 3½ years.



The ornamental design for a pile fabric substantially as shown.

81,043. STORAGE-BATTERY CASE. BYRON M. SWEET, Barberton, Ohio. Filed Aug. 5, 1929. Serial No. 32,305. Term of patent 14 years.



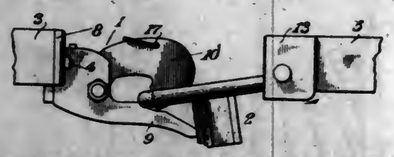
The ornamental design for a storage battery case as shown and described.

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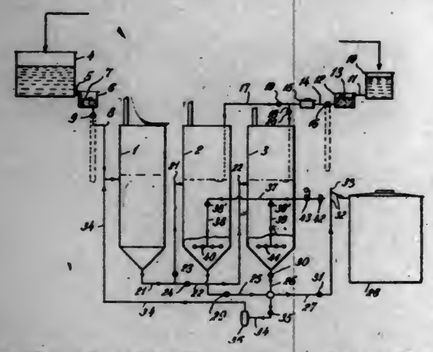
GRANTED APRIL 22, 1930

1,755,164. COUPLER. ANSON J. BENTLEY, Niles, Ohio. Filed Mar. 22, 1927. Serial No. 177,232. 2 Claims. (Cl. 280—33.15.)



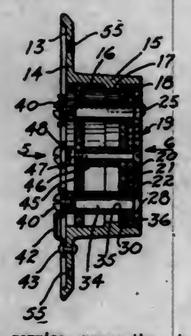
2. A coupling comprising a hook member and a link member, said hook member including a forwardly extending prong, said link member comprising a pair of arms adapted to be pivotally mounted and a rounded front portion adapted to engage said hook member, and means formed integrally with said arms forming a bumper for engagement with said prong.

1,755,165. MANUFACTURE OF SUGAR. ARTHUR W. BULL, Naugatuck, Conn., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1928. Serial No. 323,640. 15 Claims. (Cl. 127—50.)



6. The method of treating beet juice in the manufacture of sugar which comprises mixing raw juice with carbonated juice.

1,755,166. ELECTRIC SERVICE CONNECTION. JAMES H. CANNON, Los Angeles, Calif., assignor to Cannon Electric Development Company, Los Angeles, Calif., a Corporation of California. Filed May 27, 1926. Serial No. 111,943. 10 Claims. (Cl. 173—324.)



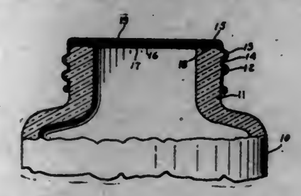
1. An electric service connection including: a body having a cavity; a bead mounted in said cavity and formed of an intermediate disc and two adjacent discs of insulating material, there being an elongated slot in the intermediate disc and openings in the adjacent discs, said openings being in registry with said slot; and a hollow receptacle having a body portion extending through the opening in one of said adjacent discs and provided with a shoulder disposed in said slot, said shoulder being larger than said openings so that the receptacle is retained against axial movement by the adjacent discs, and the body portion of the receptacle being smaller than the opening through which it extends so as to permit a transverse shifting of said receptacle.

1,755,167. ELECTRIC SIGNAL SWITCH. JOSEPH O. CADIEUX, Meriden, Conn., assignor, by mesne assignments, to Connecticut Telephone & Electric Corporation, Meriden, Conn., a Corporation of Delaware. Filed May 22, 1928. Serial No. 279,656. 14 Claims. (Cl. 200—163.)



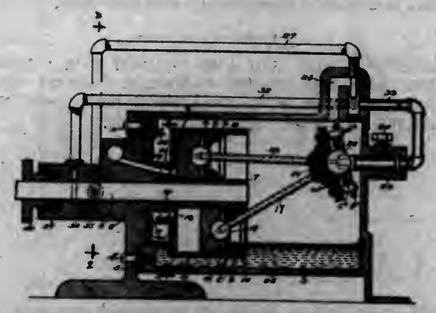
1. A signal switch comprising a frame having a front plate and side bars, an insulating body supported by said side bars and having a center contact pin, contact fingers carried by said frame independently of said body, an operator guided in said front plate and a spring-pressed contact member movable thereby and co-acting with said contact fingers and with said guide pin.

1,755,168. CLOSURE. LESLIE R. N. CARVALHO, Toledo, Ohio, assignor to The Closure Service Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 3, 1927. Serial No. 223,640. 1 Claim. (Cl. 215—43.)



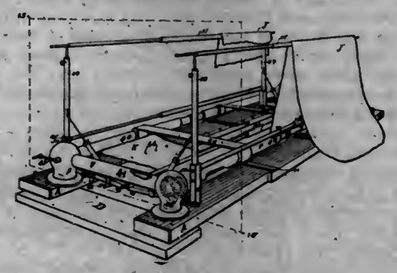
The combination with a container having an externally screw threaded neck, of a closure cap therefor comprising a flat circular top and a screw threaded depending flange to engage the threads on said neck, a circular flat metal bearing plate within the cap parallel with and in contact with said top, said plate being of considerably less area than the inner face of the top portion, a liner within the cap parallel with and in contact with the lower face of said bearing plate, said liner having a wax facing on the side opposite the bearing plate, said liner being of an area to snugly engage its periphery with the flange of the cap and thereby hold said cap, plate and liner together prior to application of the cap to the container and preventing contact of said liner with the upper surface of the container during the application of the cap to the container, except while the liner is being compressed between the upper surface of the container and the marginal portion of the bearing plate and said top during the final rotative movement of the cap as the latter is screwed home on the container.

1,755,169. PUMP OR ENGINE CONSTRUCTION. CHARLES A. ANDERSON, Chicago, Ill. Filed Aug. 8, 1925. Serial No. 49,137. 11 Claims. (Cl. 230—178.)



1. The combination of a main support, a drive shaft in said support having a rotary element secured thereto, ported cylinders in said element, pistons in said cylinders, hollow connecting-rods operatively connected at one of their ends to said piston and at their other ends to a stationary point radially removed from an extended axial line of said drive shaft.

1,755,170. BURIAL APPARATUS. CHARLES W. BAKER, Lake Charles Park, Mo. Filed Jan. 28, 1928. Serial No. 250,206. 3 Claims. (Cl. 27—32.)



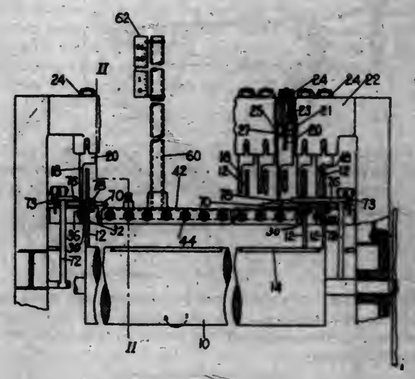
1. In a burial apparatus a covering mechanism comprising an upper two-part fabric cover holding frame; a lower two-part fabric cover holding frame; an elastic and detachable connection between said upper and lower frames; and a casket-lowering apparatus arranged by the lowering of a casket to successively actuate said upper and lower holding frames.

1,755,171. INSTRUMENT CASE. HERMAN BARTENBACH, Pittsburgh, Pa. Filed June 6, 1928. Serial No. 283,271. 4 Claims. (Cl. 58—90.)



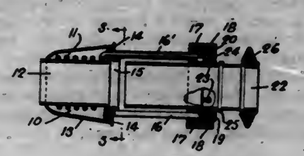
1. In an instrument case of the character described, a hollow body portion including a removable bezel provided with a crystal member, and means for sealing the connections of said bezel with said crystal member and with said body portion for preventing the passage of all extraneous matter through said connections.

1,755,172. MEASURING MACHINE. JOHN M. BENJAMIN, Beverly, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Jan. 30, 1928. Serial No. 250,526. 29 Claims. (Cl. 33—124.)



1. In a measuring machine, a support for a piece of work, a plurality of independently movable measuring members for engaging a piece of work on the support, each measuring member being continuously moved through frictional contact with the work to measure a length dimension of the work during relative movement of the member and the piece of work, an enclosed body of fluid, means operated by each measuring member to act on the fluid to cause displacement thereof in accordance with the extent of movement of the measuring member, and means controlled by the fluid displacement to indicate the total work measurement effected by the measuring members.

1,755,173. COMBINATION HEATER FOR PERMANENT WAVING. JAMES C. BROWN, New York, N. Y., assignor to Ernest O. Frederics, New York, N. Y. Filed Oct. 18, 1927. Serial No. 226,862. 10 Claims. (Cl. 219—24.)

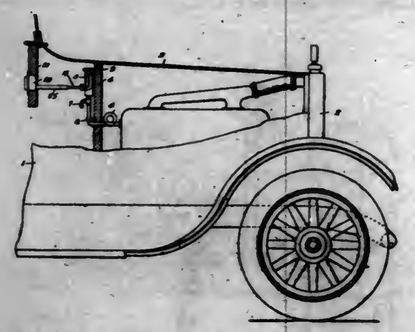


1. In electrical heating apparatus adapted for use in the permanent waving of hair, in combination, a relatively short tubular heater member having a tress-enclosing tube, and means on said tubular heating member for receiving an auxiliary tubular member in continuation of said tube whereby the effective length of the application of heat from the heater member is increased.

1,755,174. RADIATOR METER. PAUL P. CARBT, Chicago, Ill. Filed Feb. 16, 1927. Serial No. 168,713. 1 Claim. (Cl. 73—82.)

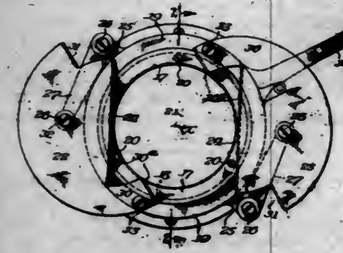
The combination with the water circulating system of an automobile, said system including a radiator, of a water box having its top substantially level with that of the radiator and provided with an air vent, a flexible water conduit leading from said water box into the water circulation system, a float in said water box, a hinged closure for the air vent in said water box and operative-

ly supported by said float, a graduated dial arranged in the dash of the automobile, an indicator movable over the face of said dial, and actuating means for said indicator connecting it to said float, said means comprising a rod



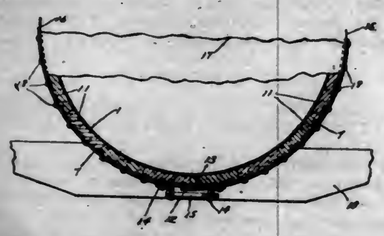
bent between its ends so as to provide two arms at an angle to one another, one arm adjustably receiving the float and a rotary pipe pin-connected to the other arm and actuated thereby.

1,755,175. DOWSER OR DIAPHRAGM FOR MOTION-PICTURE APPARATUS. AUGUSTO DINA, Jersey City, N. J., assignor to The Precision Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 5, 1925. Serial No. 54,623. 12 Claims. (Cl. 88—19.3.)



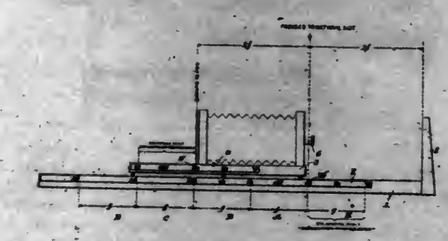
12. In a device of the character described, in combination, a plurality of sections having complemental edges, a movable actuating member having pivots thereon, pivots for said sections, means for relatively moving the pivots of said sections and actuating member, and relatively angularly movable members extending between and connected to the pivots on both said sections and actuating member for maintaining the edges of said sections substantially parallel during movement.

1,755,176. TANK. HARVEY FELDMEIER, Little Falls, N. Y., assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del., a Corporation of Delaware. Filed Sept. 23, 1926. Serial No. 137,221. 5 Claims. (Cl. 220—1.)



1. A tank for transporting liquids under conditions which create torsional stresses in the walls thereof which comprises a container of relatively thin sheet metal, a layer of heat insulating material entirely surrounding said container, and a stress-resisting jacket enclosing said layer and container, and means to draw and hold said jacket in uniformly close contact with said layer.

1,755,177. SCALE AND ATTACHMENT FOR REDUCING AND ENLARGING CAMERAS. ARTHUR FRUWIRTH, Brooklyn, N. Y. Filed Dec. 7, 1927. Serial No. 238,355. 2 Claims. (Cl. 88—24.)



1. The combination with a process or copying camera, of a pair of focusing scales coacting therewith, said scales consisting of a minor conjugate scale and a major conjugate scale, said minor scale being attached to the carriage of the camera and the major scale to the stationary base of the camera, both of said scales having a zero graduation line and other lines at angles to the zero line, the angles of said other lines being greater as the distance increases from the zero line, a pointer connected to the lens frame of the camera positioned to move over the major scale, and a second pointer secured to the ground glass frame positioned to move over the minor scale, said pointers coacting with said graduation lines to rectify inaccuracies in the lens.

1,755,178. COMPOSITION FOR REPELLING INSECTS. DUDLEY H. GRANT, Moorestown, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Dec. 29, 1928. Serial No. 329,314. 7 Claims. (Cl. 167—22.)

6. An insect repellant comprising terpinyl acetate, a mineral oil, and an emulsifying agent.

1,755,179. SULPHONIC ACIDS OF HIGH WETTING, CLEANING, AND EMULSIFYING POWER. FRITZ GÜNTHER, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 28, 1926, Serial No. 157,613, and in Germany Dec. 28, 1925. 6 Claims. (Cl. 260—159.)

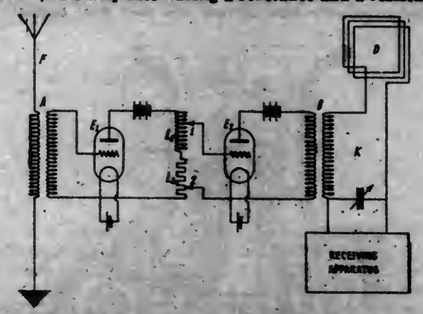
1. The process of producing sulphonic acids of high wetting, cleaning and emulsifying power which comprises condensing an aromatic hydrocarbon with at least two different derivatives of non-armoatic hydrocarbons and sulphonating in a stage of the process.

5. As a new article of manufacture, aromatic sulphonic acids substituted by at least one propyl and at least one butyl group.

1,755,180. ARRANGEMENT FOR DIRECTIONAL RECEIVING. ALF HERZOG, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed June 5, 1924, Serial No. 717,914, and in Germany June 13, 1923. 10 Claims. (Cl. 250—11.)

4. In combination, a tuned directional and an aperiodic non-directional antenna, means for coupling said antenna

comprising a circuit coupled to the directional antenna and a radio frequency amplifier coupled to the non-directional antenna, said amplifier having a reactance and a resistance



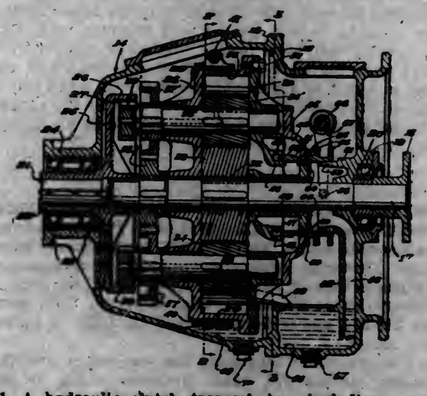
in its output common to the circuit coupled to the directional antenna, means adjustably associated with said reactance for regulating phase relation between said antenna.

1,755,181. CONDENSER. GEORGE JACOBS, Detroit, Mich. Filed Aug. 24, 1923. Serial No. 659,171. 4 Claims. (Cl. 175—41.5.)



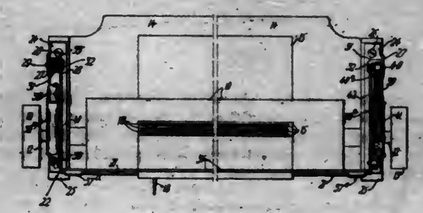
1. In a condenser, the combination of a base and a shaft rotatably carried thereby, a sleeve mounted on the shaft, a series of disks of insulating material mounted on the sleeve, means to cause alternate disks to rotate with the sleeve, means to cause alternate disks to remain stationary, plates of metal mounted in said disks and having parallel sides, and conductors connecting to the two groups of disks, part of said conductors comprising thin plates on said shaft and having tongues engaging alternate plates and the other conductors consisting of flexible strips connecting to fingers projecting through the peripheries of said disks, and a binding post to support said flexible strips.

1,755,182. HYDRAULIC CLUTCH TRANSMISSION. HARMON J. KLINE, Detroit, Mich. Filed Aug. 14, 1928. Serial No. 299,461. 15 Claims. (Cl. 74—34.)



1. A hydraulic clutch transmission, including a main casing, a driving and a driven shaft journalled therein, a rotor casing connected to and rotatable with or independently of the driving shaft, a main rotor connected to the driving shaft, a plurality of coacting rotors mounted in the casing, planetary gearing connecting the rotors to drive the driven shaft, said rotor casing being provided with inlet and outlet ports adjacent the center portion thereof, means carried by the main casing and cooperating with the rotor casing to supply liquid to the rotor casing and the rotors and means for controlling the flow of liquid through the rotor casing to regulate the transmission effect from the driving to the driven shaft.

1,755,183. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 14, 1927. Serial No. 233,030. 5 Claims. (Cl. 197—144.)



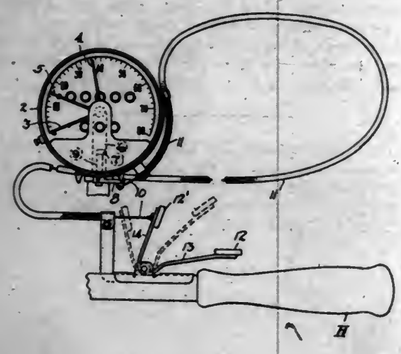
2. In a typewriting machine having a rotary platen journaled in a platen-frame, the combination of an impression-strip of harder material set against the rotary platen longitudinally thereof at the typing line and substantially extending the length of the rotary platen, a horizontal frame or bail of flat material pivoted at the rear upon the sides of the platen-frame, depending flat arms extending from said bail at either side thereof to adjacent the typing line and carrying rigidly fastened thereon said strips, the so-formed angular frame-structure swingable from forward operative to rearward inoperative position, stops to limit the rearward throw of the bail, and spring-thrust means to resiliently hold the same in either position.

1,755,184. SPEED-INDICATING DEVICE. EUGENE F. MARTINET, Cleveland, Ohio, assignor to The Dual Speedometer Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 22, 1928. Serial No. 327,799. 18 Claims. (Cl. 116—116.)



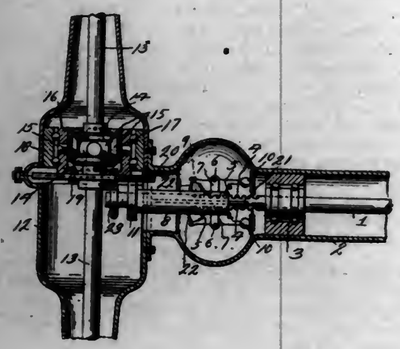
1. In a speed indicating device, the combination of a speed indexing member, a shaft adapted to operate said member, and connecting means optionally engageable and disengageable therebetween.

1,755,185. SPEED-INDICATING CONTROL MEANS. EUGENE F. MARTINET, Cleveland, Ohio, assignor to The Dual Speedometer Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 13, 1929. Serial No. 339,525. 12 Claims. (Cl. 116—133.)



1. Apparatus of the character described, which comprises a speed indicating means, means other than the prime mover for starting and stopping said indicating means, and remote-control means for operating said starting and stopping means.

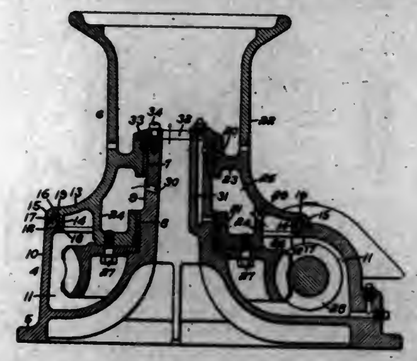
1,755,186. TRANSMISSION. LEONARD C. MARTINSEN, Kimballton, Iowa. Filed Jan. 31, 1930. Serial No. 424,876. 3 Claims. (Cl. 74—97.)



1. A differential comprising axially alined driven shafts, gear train connections between the adjacent ends of the driven shafts, an antifrictionally mounted bearing sleeve supporting said gear connections, a friction drive disc carried by said sleeve, a drive friction wheel engaging said disc, a drive shaft, a sleeve carried by said drive wheel, said sleeve being longitudinally feathered on the drive shaft, centrifugally controlled gear segments carried by the sleeve, racks carried by opposite sides of the drive shaft with which the gear segments mesh.

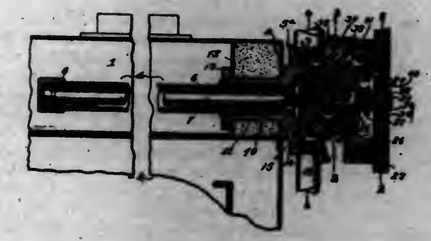
1,755,187. CAPSTAN. ALMON B. NORRIS, Brookline, Mass. Filed May 17, 1927. Serial No. 191,998. 4 Claims. (Cl. 254—150.)

1. In a capstan, the combination of a base and a column, said base presenting an outer wall and said column presenting an inner wall, between which walls there is a lower chamber having at its upper portion an annular opening, said column presenting an opening leading to the atmosphere, a head mounted to rotate about said column, said head presenting a closure for said annular opening, and a wall above said closure, there being an upper chamber between said closure and said wall thereabove,



said closure being provided with a passage affording communication between said lower chamber and said upper chamber, and said inner wall being provided with a passage affording communication between said upper chamber and said opening leading to the atmosphere.

1,755,188. THERMOSTATICALLY-OPERATED FUEL-CONTROLLING DEVICE. HENRY W. O'DOWD, Jersey City, N. J., assignor to Standard Gas Equipment Corporation, a Corporation of Maryland. Original application filed Apr. 9, 1925, Serial No. 21,742. Divided and this application filed May 5, 1927. Serial No. 188,891. 6 Claims. (Cl. 236—15.)

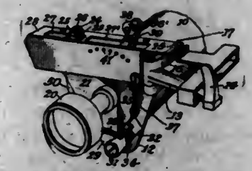


1. In a thermostatic fuel controlling device, the combination of a valve casing, a thermostatic couple, a valve adjustably connected to said couple and movable by the latter to control the flow of fuel through the casing, a member rotatably mounted gas tight in the wall of the casing and engaged with the said valve for adjusting it, a plate mounted on said member and provided with teeth, and a rotary dial wheel formed with teeth adapted to interlock with the teeth on the plate and detachably connected with said rotary member; whereby the wheel may be adjusted circumferentially with reference to the member by disengaging the teeth, and may be held in its new position by the reengagement of the teeth.

1,755,189. PRODUCTION OF VALUABLE PRODUCTS FROM MONTAN WAX. WILHELM PUNGS, Ludwigshafen-on-the-Rhine, and MICHAEL JAHRSTORFER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 10, 1927, Serial No. 218,854, and in Germany Sept. 13, 1926. 2 Claims. (Cl. 196—21.)

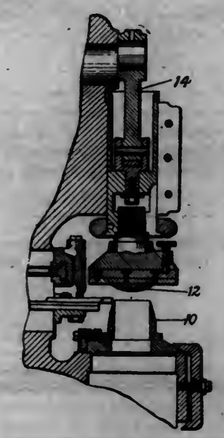
1. The process of separating the wax esters contained in refined Montan wax which comprises boiling the said Montan wax with concentrated acetic acid.

1,755,190. TYPEWRITING MACHINE. HENRY RESCH, Bayonne, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 30, 1926. Serial No. 125,885. 8 Claims. (Cl. 197—114.)



1. In a typewriting machine, the combination with a rotatable platen and its axle, of a ratchet-wheel having a tubular hub fixedly mounted on said axle, a cam-plate freely mounted on said hub, a rock-lever pivoted eccentrically of said wheel, a dog pivoted thereto, means for causing the dog to engage the edge of the cam-plate, means for locking the cam-plate at a desired position, and means for rocking said lever to permit the dog to engage a tooth of the ratchet to throw or sweep the platen through a predetermined line-space distance.

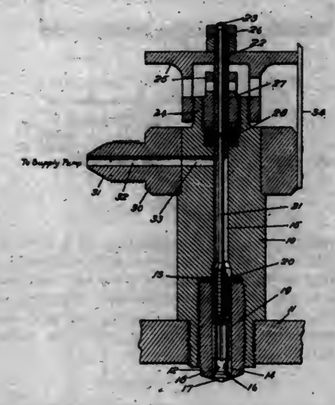
1,755,191. MACHINE FOR MANUFACTURING ARTICLES FROM SHEET MATERIAL. JOHN H. RICHARDSON, Melrose, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 11, 1926. Serial No. 128,629. 7 Claims. (Cl. 164—29.)



1. In a machine for producing heel lifts, a die having a plurality of cutting edges, and a cutting block having a convex surface of varying curvature and of substantially greater area than that bounded by the cutting edges of the die, the construction and arrangement being such that one of the cutting edges is of substantially the same curvature as that of a portion of the convex surface for co-operation therewith in forming the side and back edge portions of a blank, and another cutting edge is of substantially the same curvature as another portion of the block surface for co-operation therewith in forming the breast edge portion of the blank.

1,755,192. ATOMIZING VALVE. PHILIP LANE SCOTT, Chicago, Ill., assignor to Super-Diesel Tractor Corporation, La Porte, Ind., a Corporation of New York. Filed Dec. 14, 1925. Serial No. 75,661. 1 Claim. (Cl. 299—125.)

In a direct fuel injection system for internal combustion engines, an injection valve comprising a valve housing and a valve seat, and a valve member adapted to be seated upon such seat, a valve retainer comprising a metal rod firmly holding the valve member upon its seat, said retainer adapted to be elongated by pressure within the

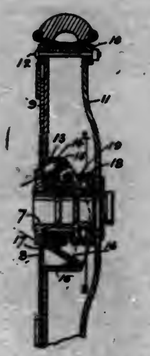


valve housing to permit opening of the valve, the valve member being removably attached to said rod and provided with a plurality of elongated guiding elements, such guiding elements being separated from each other and providing passages of restricted cross sectional areas.

1,755,193. PRODUCTION OF ACETONE. LEO SCHLECHT, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany, a Corporation of Germany. Filed Nov. 23, 1928, Serial No. 321,522, and in Germany Dec. 16, 1927. 14 Claims. (Cl. 260—134.)

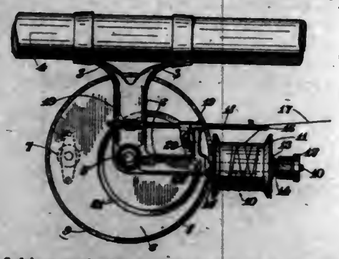
1. The process of producing acetone, which comprises passing acetaldehyde together with steam at a temperature between about 350° and 500° C. over a catalyst containing zinc.

1,755,194. SHOCK-ABSORBING DEVICE. BENJAMIN F. SEYMOUR, Washington, D. C. Filed Jan. 13, 1928. Serial No. 246,441. 5 Claims. (Cl. 152—44.)



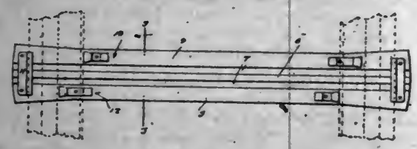
5. In a transmission, the combination with revoluble members; of driving and driven elements having contacting faces, the axes of which are obliquely arranged with relation to the axis of revolution of said members and resilient means adapted to hold said elements in co-operative relation.

1,755,195. FISHING REEL. WALTER STANLEY, Lutterworth, England. Filed Oct. 28, 1927, Serial No. 229,505, and in Great Britain Oct. 30, 1926. 4 Claims. (Cl. 242—84.4.)



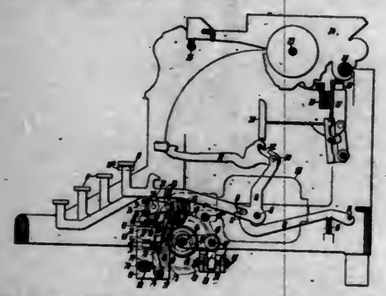
1. In a fishing reel, the combination of a rod, a stem carried thereby and substantially parallel with said rod, a spool rotatably mounted upon said stem and also endwise free thereon, a disc rotatable by the user engaging an end face of said spool, and a spring acting on said spool to thrust it resiliently into driving engagement with said disc, substantially as set forth.

1,755,196. RAIL TIE AND FASTENING MEANS. JAMES VAVORIES, Burdine, Ky. Filed Oct. 4, 1928. Serial No. 310,413. 4 Claims. (Cl. 238—10.)



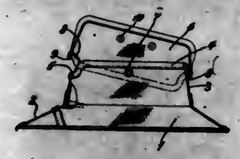
1. In a structure of the class described, the combination of a rail tie, an outer abutment clamp rigidly fastened to said tie adapted for engaging the outer flange of the base of a rail supported on the tie, a second retaining clamp secured to the tie adjacent one longitudinal edge of the tie and adapted to engage the inner flange of the bas of a rail, and a third retaining clamp secured to the tie adjacent the opposite longitudinal edge of the tie and adapted for engagement with the base flange of an extension rail for maintaining the tread of the extension rail in abutting relation with the first rail.

1,755,197. TYPEWRITING MACHINE. RICHARD VON REPPERT, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 15, 1927. Serial No. 219,607. 55 Claims. (Cl. 197—17.)



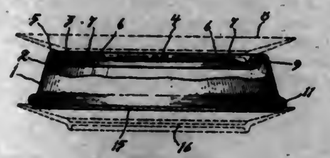
6. In a typewriting machine having type-bars connectible to depressible key-levers, a power-driven continuously rotating permanently magnetised key-lever actuator, and means carried by each key-lever and movable by the initial depression of said key-lever into the magnetic field of the rotating actuator to become effective to complete the depression of the key-lever and actuate its type-bar.

1,755,198. HAT. EDWARD WITTCOFF, St. Louis, Mo. Filed Aug. 13, 1928. Serial No. 299,250. 3 Claims. (Cl. 2—176.)



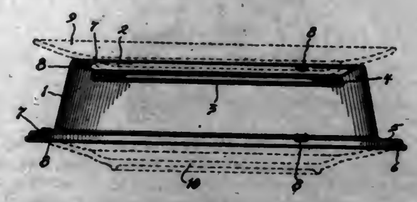
1. A hat comprising a brim, and a lower crown section in connection with the brim and having a notch in its upper edge at the front, in combination with an upper crown section telescoping upon the upper portion of said lower crown section and having a notch in its lower edge at the front, and means pivotally connecting said two crown sections together and permitting movement of said upper crown section to position to form a closed crown comprising said upper and lower sections or to position to form an open space between the notched edges of the two crown sections at the front of the head.

1,755,199. DISH COVER. JOHN B. ZALLIO, Chicago, Ill. Filed Aug. 13, 1927. Serial No. 212,742. 5 Claims. (Cl. 65—53.)



1. In an article of the character described the combination with a cup shaped body provided with a circular exteriorly facing marginal groove on the transverse wall thereof, of support means of restricted area on said transverse wall and disposed inwardly of said groove and projecting exteriorly.

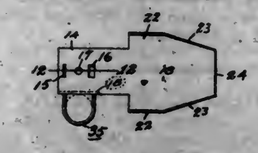
1,755,200. DISH COVER. JOHN B. ZALLIO, Chicago, Ill. Filed Oct. 17, 1927. Serial No. 226,590. 4 Claims. (Cl. 65—53.)



1. In an article of the character described the combination in a cup shaped body, of an annular substantially frusto-conical margin portion of the transverse wall of the body projecting inwardly and in the direction of the other end of the same, the center portion of said transverse wall being offset from said margin portion in the direction of the other end of the body, and an inwardly undercut annular connecting portion between said margin and center portions of said transverse wall.

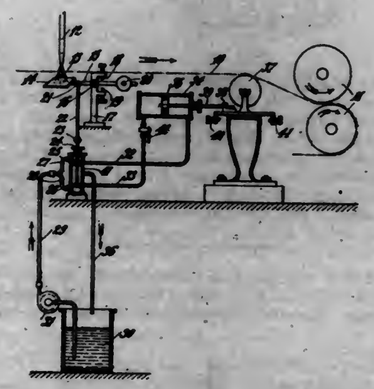
1,755,201. WALL BRACKET. JASPER BLACKBURN, Webster Groves, and HERBWARD J. PEELE, St. Louis, Mo.; said Peele assignor to said Blackburn. Filed July 5, 1927. Serial No. 203,394. 2 Claims. (Cl. 248—36.)

1. A wall bracket formed from a single piece of spring metal and composed of a head portion and a shank portion, an apron integral with said head portion, said head portion and apron being provided with rectangular openings for the reception of a fastening means, upturned wings tapering downwardly at their rear ends formed integral with the longitudinal edges of said shank portion



and adjacent said head portion, and a skew ring having certain of its edges serrated adapted to be inserted in said openings, said serrated edges to grip one of the edges of each of said openings whereby said ring can be adjustably secured therein.

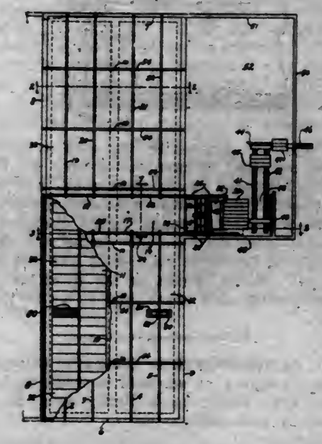
1,755,202. APPARATUS FOR REGULATING LATERAL MOVEMENT OF LONGITUDINAL SIEVES. WALTER BRECHT and ERICH SCHAUN, Augsburg, Germany. Filed May 15, 1929, Serial No. 363,377, and in Germany Jan. 23, 1928. 8 Claims. (Cl. 92—44.)



1. In a machine of the character set forth, consisting of a longitudinal web carrying sieve arranged to have lateral shifting from one position to another and a control roller controlling the shifting of the same, a counter-balanced vertically swingable strike plate, means for directing a jet of water upon the strike plate whereby to operate the same, positioned to insure interception of the jet of water by the sieve when the latter is in one position of movement, and means controlled by the operation of the strike plate controlling the operation of the control roller.

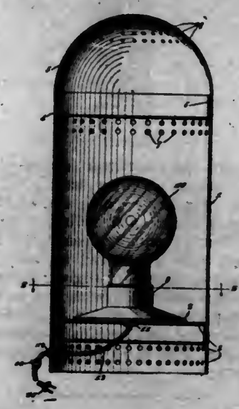
1,755,203. ICE PLANT. GEORGE B. BRIGHT, Detroit, Mich. Filed May 17, 1929. Serial No. 363,941. 4 Claims. (Cl. 62—105.)

1. In an ice plant, the combination of a freezing room comprising an area devoted solely to one or more ice freezing tanks with their insulated space together with one or more freezing units contained therewithin, said freezing room being provided with wall supporting structures, one or more continuous monorails above said one or more freezing units, said one or more continuous monorails being supported from the wall supporting structures of said freezing room, and means for moving a portion of each continuous monorail out of alignment with its remaining portion or portions to and beyond the limits of said freezing room through a common egress way from above the projected area of said freezing room, the traversed path of the portion of each continuous monorail moving out of alignment with its remaining portion or portions across



one of the sides of the projected area of said freezing room, having a width relatively less than the length of the traversed side of the projected area of said freezing room, and means for hoisting said freezing units, said last mentioned means being adapted to travel on each of said continuous monorails.

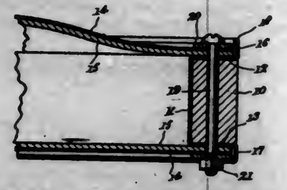
1,755,204. HEATING APPARATUS. OSCAR THOMAS BUFFALOW, Chattanooga, Tenn., and ALBIN HAJOS, Atlanta, Ga. Filed Nov. 21, 1928. Serial No. 320,998. 1 Claim. (Cl. 219—45.)



In an apparatus for the purpose set forth, a casing having a bottom plate therein at a distance from one end thereof and the second end of the casing being flanged inwardly, the said casing adjacent to the flange having a series of apertures, a hollow apertured cover removably received on the flanged end of the casing, said casing, adjacent to its bottom plate, having series of apertures therethrough and all of said apertures affording cold air inlets and hot air outlets, an electric bulb arranged approximately centrally in the casing, between the mentioned apertures, a threaded element passing through the bottom for sustaining the bulb in the casing and said element also providing a guide for insulated wires for the lamp bulb.

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1,755,205. PNEUMATIC MATTRESS. JENS A. CHRISTENSEN, Omaha, Nebr. Filed Mar. 19, 1929. Serial No. 348,239. 2 Claims. (Cl. 5—348.)



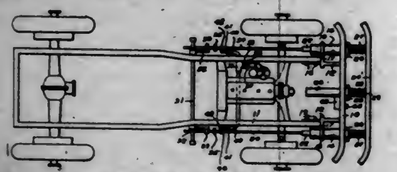
2. An improved pneumatic mattress comprising an open frame composed of bars, and a liner for the inside faces of the bars and having webs above and below the bars and provided with flanges outstanding from the free ends of the webs, said flanges having overturned edges, rubber sheets stretched over said frame and having the margin portions seated on said webs and the ends protected by said flanges, strips on the sheet margins, and fastenings securing said sheets and strips to the flanges and bars.

1,755,206. CASING CUTTER. WALTER L. CHURCH, Houston, Tex., assignor of one-half to William L. Pearce, Houston, Tex. Filed Aug. 2, 1926. Serial No. 126,426. 7 Claims. (Cl. 81—195.)



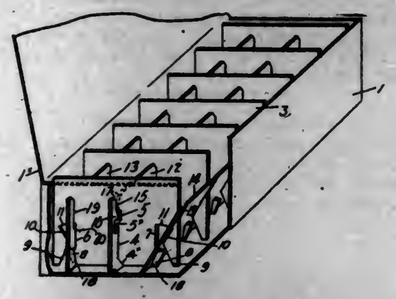
1. A device of the character described including a body, a fluid pressure cylinder associated therewith, a plunger in said cylinder, a valve controlling the admission of pressure fluid into said cylinder, radially movable cutters in said body, a mandrel connected to the plunger and whose lower end is adapted to work between said cutters and whose upper end is aligned beneath said valve, a yieldable member associated with the mandrel and normally holding the same in position to release said cutters and to hold said valve open, means connected to said cutters and normally tending to move them inwardly relative to said body.

1,755,207. AUTOMOBILE BUMPER. JACK COMISKEY, Kansas City, Kans. Filed May 22, 1929. Serial No. 365,196. 7 Claims. (Cl. 180—83.)



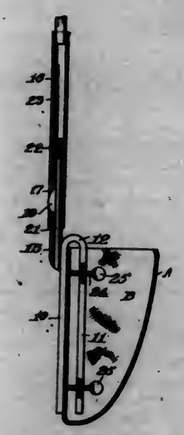
1. In automobile stopping means, a rear bumper, compression cylinders disposed upon the rear side of the rear bumper, near its ends and secured thereto, a forward bumper, rods secured to the forward bumper and operating within the compression cylinders, springs within the compression cylinders and serving to oppose the rearward movement of said rods, brake actuating means including a transverse rock-shaft, cranks secured to the rock-shaft near its ends and disposed near said rods, elements effecting a slidable connection between the cranks and rods, and stops mounted upon said rods and movable into engagement with said elements.

1,755,208. FILLER FOR EGG CARTONS. JOSEPH LEOPOLD COYLE, London, Ontario, Canada, assignor to Ephraim Banning, trustee, Chicago, Ill. Filed June 19, 1928. Serial No. 286,538. 14 Claims. (Cl. 217—32.)



8. An egg filler or holder in which is comprised a plurality of cross-walls upstanding in parallel vertical planes, a pair of partitions intersecting the cross-walls on each side of the center thereof, said partitions being so constructed and connected to the cross-walls as to permit the partitions to be arranged into or out of parallelism, whereby to provide support against collapse of the cross-walls when in said last named position.

1,755,209. UMBRELLA-FASTENING MEANS FOR BAGS. JOSEPH R. DANNER, Wilmar, Calif. Filed Jan. 2, 1929. Serial No. 329,887. 10 Claims. (Cl. 135—9.)



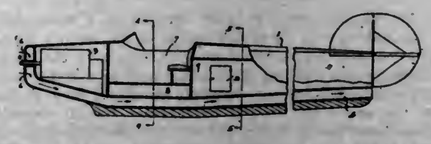
6. A device as described consisting of a post, an umbrella handle securing means on said post, an under support for said post having downwardly extending parallel arms, and means carried by one arm for clamping the other arm upon the side of a flexible bag.

1,755,210. METHOD OF MAKING COUPLINGS. BURT E. DOHNER, Oakwood, near Dayton, Ohio. Filed Aug. 5, 1927. Serial No. 210,983. 2 Claims. (Cl. 29—148.)



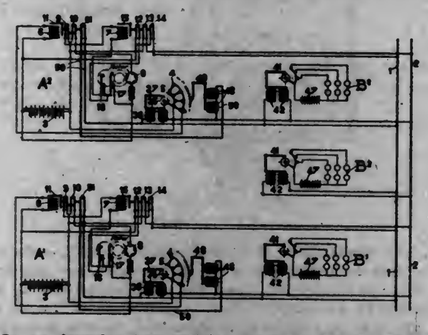
1. The method of coupling two cylindrical members, which consists in forming one member with a threaded recess having a tapering inner end to receive the other member, then applying a thinly connected double sleeve unit to the cylindrical member, the rear part of said unit being threaded and its front part being compressible, then forcing said unit into the recess until the connection between its front and rear parts is broken, and then forcing the compressible part of the unit as a separate piece into the tapering end of the recess, by screwing the threaded part of the unit further into the recess, for the purpose specified.

1,755,211. FUSELAGE FOR AEROPLANES. WALTER K. DWELLE, Houston, Tex., assignor of forty per cent to John T. Deaver, twelve and one-half per cent to James Lawlor, and seven and one-half per cent to C. C. Cunningham, Houston, Tex. Filed Oct. 17, 1927. Serial No. 226,714. 1 Claim. (Cl. 244—30.)



In an aeroplane, a fuselage having an air channel in the bottom thereof extending from end to end thereof and whose forward end is upturned and terminates in an air inlet port at the extreme front end of the fuselage, said fuselage having a cockpit with a storage chamber beneath it and a storage chamber behind it, above said air channel, said fuselage having a gas chamber on each side of the cockpit and entirely surrounding said storage chambers on each side and above, and cross braces reinforcing the walls of said gas chamber.

1,755,212. ELECTRICAL SELECTING CIRCUITS. FRANÇOIS FAVARGER, Neuchatel, Switzerland, assignor, by mesne assignments, to The Teleregister Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 21, 1926, Serial No. 82,884, and in Switzerland Jan. 24, 1925. 1 Claim. (Cl. 177—353.)



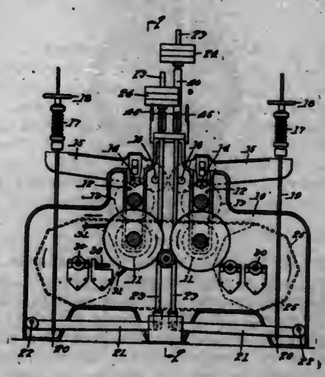
In an impulse transmitting arrangement for the distant control of indicators associated with a line circuit, a plurality of similar impulse transmitting devices, each comprising, a multiposition selector switch manually movable to different positions, a second movable multiposition selector switch, means whereby the second selector switch is moved from position to position in response to impulses applied to the line circuit, means whereby the first selector switch is additionally moved from position to position in response to impulses applied to the line circuit, a relay having a circuit controlled by the relative positions of said two selector switches, means including a second relay controlled by the operation of the first relay when the selector switches are moved out of coincidence for applying a number of impulses to the line circuit proportional to the amount of relative movement of the selector switches, whereby when any one of the manually operated selector switches is moved relatively to the second selector switches, the first and second relays cooperate to supply the line circuit with a number of impulses proportional to the amount of movement and thereby also cause the operation of the impulse responsive moving means of each first and second selector switches, and means controlled by the first relay of a selector switch which is at the time controlling the supply of impulses to the line circuit to disassociate its associated additional impulse responsive moving means from the line circuit during the operation of such relay.

1,755,213. WAISTBAND. AARON FREYDBERG, New York, and JACOB MARCUS, Brooklyn, N. Y.; said Marcus assignor, by mesne assignments, to Olive K. Thomas and Joseph D. Malkin, trading as National Pad and Binding Company, Philadelphia, Pa. Filed Sept. 1, 1926. Serial No. 132,978. 3 Claims. (Cl. 2—236.)



1. As an article of manufacture, a length of waist band material including a stiffening and a lining strip superposed one upon the other and arranged with their edges adjacent at one edge of the length, the said edge of the length turned over upon the stiffening strip to form a crease between the turned over edge and the body of the length, and stitching through and about the crease, the crease forming a guide for the stitching of the band to a garment.

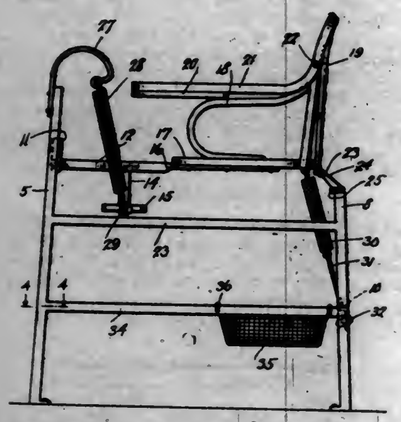
1,755,214. CONTINUOUS EXTRACTOR. FRANK L. FURBUSH, Westford, Mass., assignor to C. G. Sargent's Sons Corporation, Graniteville, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1926. Serial No. 154,823. 5 Claims. (Cl. 100—37.)



1. In an extracting machine, the combination with a pair of extracting rolls, of an apron passing between them,

said apron being made up of plates free at their edges from each other and sprocket chains on each side connected with the several plates to complete the apron, whereby the passage of the apron between the rolls will drive it, means for driving one of the rolls, and positive means comprising a ratchet device for driving the apron at a lower speed whenever the press rolls do not drive it at a speed greater than said lower speed.

1,755,215. CHAIR. JOHN B. GLASS, Grand Island, Nebr. Filed Mar. 12, 1929. Serial No. 346,378. 5 Claims. (Cl. 155—55.)



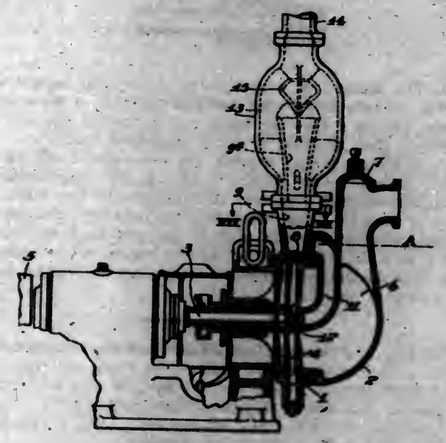
1. A structure of the class described comprising a frame, inverted U-shaped brackets secured in the frame, arms pivotally engaged between the extremities of the brackets, depending extensions on intermediate portions of the arms, a foot rest between the extensions, brackets mounted on the frame above the arms, springs engaged with the last mentioned brackets and with the foot rest.

1,755,216. DENTAL BLOWTORCH. RUDOLPH L. HANAU, Buffalo, N. Y., assignor to Hanau Engineering Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Dec. 13, 1927. Serial No. 239,679. 19 Claims. (Cl. 158—35.)



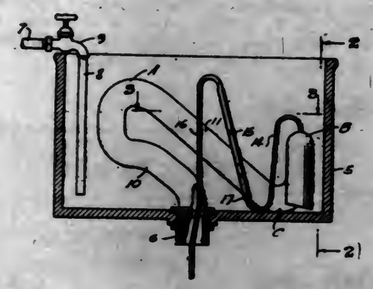
1. A dental blow torch, comprising a body having a fuel supply and a wick extending from said fuel supply and projecting outwardly therefrom, said body having an air storage chamber therein, a nozzle carried by said body and disposed at an angle to the projecting end of said wick, and an air pressure-inducing device carried by said body and having an air inlet and an air outlet, said air outlet having communication with said air storage chamber and said nozzle.

1,755,217. CENTRIFUGAL PUMP. OYSTEIN JACOBSEN, Dayton, Ohio, assignor to The Duriron Company, Inc., a Corporation of New York. Filed Mar. 6, 1929. Serial No. 344,714. 4 Claims. (Cl. 103—113.)



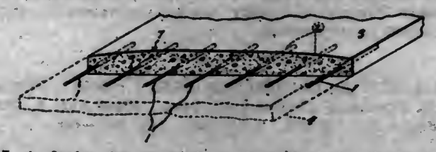
1. In combination in a centrifugal pump, a casing having an inlet eye at its center and a volute around its periphery, a separation chamber mounted above the pump, a discharge pipe leading from the volute to a point intermediate the ends of the chamber, an outlet pipe leading from the upper end of the chamber, a conical spreader member between the upper end of said discharge pipe and said outlet pipe, a runner or impeller mounted for rotation in the casing with its axis of rotation in line with the inlet eye, a suction elbow with an enlarged end cavity in opposition to and surrounding said inlet eye, and a priming conduit leading down from the chamber into said elbow with its end turned laterally in alinement with the axis of rotation of the runner and in opposition to said eye.

1,755,218. AUTOMATIC TANK SIPHON. PAUL E. JERTBERG, Glendale, Calif. Filed May 6, 1929. Serial No. 360,723. 9 Claims. (Cl. 137—106.)



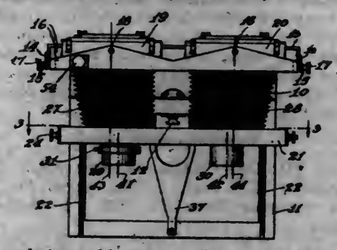
1. The combination of a receptacle for liquid; a double curve siphon having one curve at the discharge end and the other at the receiving end, the latter curve forming an air trap; an air eduction tube connected to the curve at the air trap and ranging downwardly, thence upwardly to form a receiving limb of a siphon and thence downwardly to form a discharge limb, and a port of relatively small area in the receiving limb of the last named siphon, said port being in communication with the liquid in said receptacle.

1,755,219. EXPANSION JOINT IN CONCRETE PAVEMENTS. JEAN H. KNOX, Dallas, Tex., assignor of one-half to Associated Factories Corporation, Dallas, Tex., a Corporation of Delaware. Filed Feb. 18, 1929. Serial No. 340,827. 7 Claims. (Cl. 94—18.)



5. A device for connecting abutting ends of concrete slabs, comprising a plurality of telescopic units adapted to be embedded in the concrete, each unit comprising a sleeve, and a dowel frictionally held within said sleeve and spaced from the sleeve throughout the principal portion of its perimeter.

1,755,220. PHOTOGRAPHIC CAMERA. JACK WILLIAM L. KOEHNE, Chicago, Ill. Filed Nov. 30, 1928. Serial No. 322,715. 15 Claims. (Cl. 95—44.)



1. In a photographic camera, the combination of a bed, front and rear frameworks carried by said bed and extending substantially perpendicularly therefrom, said front framework being movable on said bed towards and from said back framework to focus the camera, two camera backs of substantially the same size carried side by side by said rear framework with their picture planes in substantially the same plane, two front boards carried side by side by said front framework, two bellows respectively connecting said camera backs and said front boards, two lenses of substantially the same focal length carried by said front boards, said front framework having guideways supporting said front boards for movement towards and from each other, and mechanism carried by said bed and said front boards moving said front boards towards and from each other respectively proportionally to movement of said front framework from and towards said rear framework, said lens axes being substantially parallel at all times, said mechanism comprising arms extending from said front boards and a cam plate carried by said bed and engaging said arms.

1,755,221. DEVICE FOR PERMANENT HAIR WAVES. STEPHEN LUPES, New York, N. Y. Filed Jan. 24, 1929. Serial No. 334,688. 1 Claim. (Cl. 132—33.)



A permanent waving unit of the class described including a hair setting core comprising a base plate formed with staggered side posts having confining lugs at the tops thereof, centrally arranged anchor posts and oppositely directed spring arms for the purpose set forth.

1,755,222. MOUNTING FOR ADVERTISING PLAQUES. HOWARD B. MINNICK, Chicago, Ill. Substitute for application Serial No. 746,350, filed Oct. 9, 1928. This application filed Feb. 28, 1930. Serial No. 432,042. 1 Claim. (Cl. 40—158.)



A mounting for advertising plaques to be used with an artificial light, comprising a body portion with slots therein, a detachable mount cut into a desired conformation, a spacing member secured to the back of the mount, and cut to conform to the shape of the mount but reduced in size therefrom, means to detachably secure said mount to the body portion, said means comprising fasteners secured to the spacing member and adapted to pass through the slots for fastening the mount detachably to the body portion.

1,755,223. CAR-WINDOW CONSTRUCTION. KARL F. NYSTROM, Chicago, Ill. Filed Jan. 15, 1927. Serial No. 161,890. 9 Claims. (Cl. 98—93.)



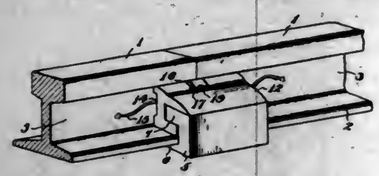
1. In a car window construction involving an upwardly sliding window sash, a window frame, the ledge portion whereof beneath the sash supporting face is formed to provide a chamber within the ledge disposed lengthwise thereof and terminating in outwardly curved and oppositely disposed ends open to the car exterior, the intermediate upper portion of the ledge on which said sash rests being apertured whereby communication with said chamber within the ledge is established when the window sash is raised from said ledge.

1,755,224. RAIL COUPLING. JOHN V. PALMER, Pittsburgh, Pa., assignor of one-third to Harry T. Neaman and one-third to James M. Magee, Pittsburgh, Pa. Filed Oct. 17, 1928. Serial No. 313,129. 2 Claims. (Cl. 238—208.)

1. A rail coupling including, in combination with rails having flanges, a chair plate having overhanging flanges

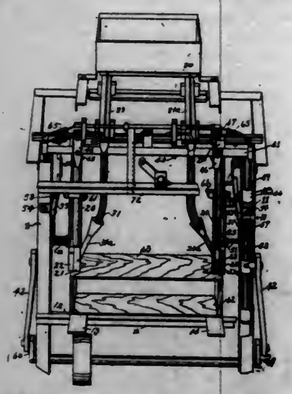
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provided with notches, wedge plates engaging in the chair plate and having upper flanges, said upper flanges being provided with openings to align with the notches in the chair plate when the wedge plates are driven into position,



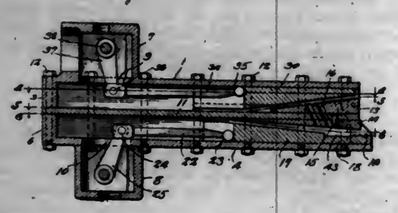
and keys extending through the openings and into the notches and locking the wedge plates in position, said keys being longitudinally curved to coact with the walls of said openings for locking the keys against retraction.

1,755,225. COMPENSATING DEVICE FOR NAIL-DRIVING MECHANISM. HALE PAXTON, Sanger, Calif. Filed July 21, 1928. Serial No. 294,339. 7 Claims. (Cl. 1—10.)



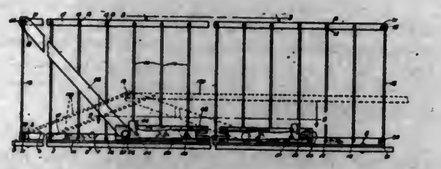
1. In combination with a box making machine having a nailing table, a driving head, and means for giving the driving head a vertical reciprocating movement, of a nail driving rod adapted to move downward with the driving head when interlocked therewith, a sleeve member adapted as a slideway for the driving rod, said sleeve having a downward movement controlled by means independent of the nail driving means, said sleeve having means at the lower end thereof adapted to position nails for engagement with said nail driving rod, means for engaging the nail driving rod with the driving head, and means on the sleeve adapted to disengage said nail driver means with said driving head when said nail driving means is in a predetermined relation with the sleeve.

1,755,226. BURNER. HENRY ROBICHAUX, Lafayette, La. Filed Nov. 13, 1928. Serial No. 319,076. 5 Claims. (Cl. 299—144.)



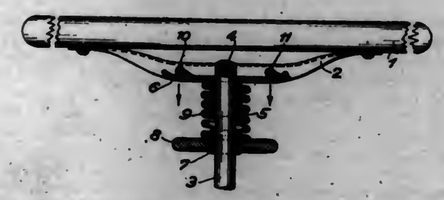
1. A burner including a housing, a partition therein, means for directing oil and steam into the housing at opposite sides respectively of the partition, inclined valve seats on the opposite sides respectively of the partition, tapered slide valves at opposite sides of the partition movable into and out of contact with the seats, an actuating element, and adjustable means shiftable by the actuating element for simultaneously moving the valves at predetermined relative speeds.

1,755,227. COLLAPSIBLE POULTRY COOP. WILLIAM W. ROBINSON, Chattanooga, Tenn. Filed Apr. 4, 1929. Serial No. 352,573. 4 Claims. (Cl. 220—6.)



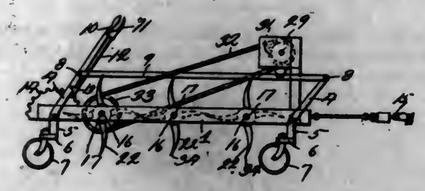
1. The combination of a container, an apertured top on the container, a door hingedly mounted upon the top for closing the aperture therein, a flexible handle means associated with the door and mounted for movement therewith, a gripping means responsive to flexing of the handle means, and means on the top of the container for cooperation with the gripping means for securing the door in locked condition relative to the top.

1,755,228. TILTING CHAIR. ALBERT STOLL, Koblenz, Switzerland. Filed Sept. 4, 1928, Serial No. 303,792, and in Germany Dec. 29, 1927. 6 Claims. (Cl. 155—77.)



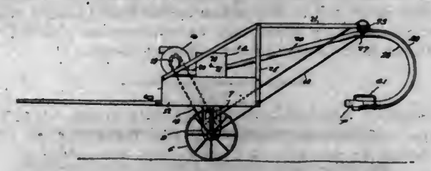
5. A tilting chair comprising in combination, a central supporting rod, a pivot connecting the seat to the upper end of the rod directly beneath the seat, a plate slidable on the rod and engaging the seat, a coil spring surrounding the rod to urge said plate against the seat and the latter into normal position.

1,755,229. HARROW. HERMAN STONE, Greeley, Colo. Filed Apr. 6, 1929. Serial No. 353,086. 1 Claim. (Cl. 55—11.)



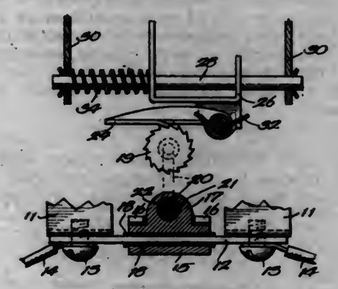
A harrow comprising a frame, transverse rock shafts within the frame at opposite ends thereof, levers mounted on said shafts intermediate the ends of the levers and rotatable therewith, caster wheels carried by the lower ends of said levers, link connections between the upper ends of the levers above their pivotal points, a handle member carried by one of said levers and forming means for simultaneously rocking all of the levers and rotatable separable interengaged toothed digging elements carried by the frame.

1,755,230. MECHANICAL COTTON PICKER. WALTER L. TURNER, Paris, Tex. Filed Jan. 2, 1929. Serial No. 329,786. 6 Claims. (Cl. 56—31.)



1. An apparatus of the class described including a wheeled receptacle, a casing on top of the receptacle in communication therewith and forming a part thereof, a suction creating means communicating with the front of the casing, flexible conduits leading from the rear of the casing to provide a current of air through the casing between said conduits and suction creating means, a rotary foraminous drum in the casing disposed in the current of air, the axis of said drum being transverse to and offset from said current of air, and cotton picking mechanisms on the free ends of said flexible conduits.

1,755,231. THERMAL OVERLOAD RELAY. HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor, by mesne assignments, to Square D Company, Detroit, Mich., a Corporation of Michigan. Original application filed Oct. 19, 1926, Serial No. 142,625. Divided and this application filed Jan. 25, 1928. Serial No. 249,472. 4 Claims. (Cl. 200—124.)



1. An electro-thermo-circuit breaker having a movable circuit controlling element, a detent for holding it, a receptacle for fusible alloy, the detent having a stem projecting into the receptacle and pivoted therein and immersed in the alloy whereby the same may be held against pivotal movement in the receptacle when the alloy is solid and released for pivotal movement in the cup when the alloy is fused, and an electro-thermo-heating element adjacent to the receptacle for heating it and the alloy, said heating element forming a support for said receptacle.

1,755,232. CURTAIN FIXTURE. EDWARD E. WHITMORE, Chicago, Ill., assignor to The Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 4, 1929. Serial No. 330,170. 5 Claims. (Cl. 156—26.)



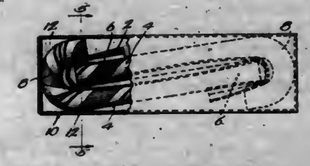
3. In a curtain fixture, a tube adapted to be secured to the lower end of a spring-wound window curtain, outwardly spring-pressed heads at the ends of the tube adapted to engage with guides at the sides of the frame in which the curtain is mounted, outwardly spring-pressed rods extending through the tube into the heads, rings positioned within the heads at the ends of the rods for frictional engagement with the guides under the pressure exerted thereon by the rods, and means in the heads beneath the rings for holding the latter in wedging positions against the guides when forced outwardly by the ends of the rods.

1,755,233. CURTAIN FIXTURE. EDWARD E. WHITMORE, Chicago, Ill., assignor to The Adlake Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 4, 1929. Serial No. 330,171. 5 Claims. (Cl. 156—26.)



3. In a curtain fixture, a tube adapted to be secured to the lower end of a spring-wound window curtain, outwardly spring-pressed heads at the ends of the tube adapted to engage with guides at the sides of the frame in which the curtain is mounted, outwardly spring-pressed rods extending through the tube into the heads, curved cam members eccentrically pivoted to the outer ends of the rods independently of the heads for frictional wedging engagement with the guides independently of the heads under the upward moving tendency of the curtain, and means to limit the rocking movement of the cam members with respect to the rods.

1,755,234. MEANS AND METHOD OF PACKAGING CANDY CANES. BRASHER O. WESTERFIELD, Chicago, Ill., assignor to Bunte Brothers, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1928. Serial No. 270,241. 7 Claims. (Cl. 206—65.)

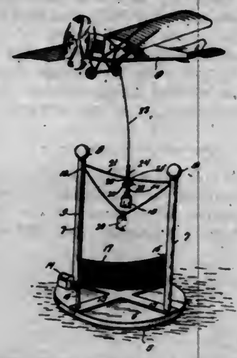


1. Means for packaging candy canes including a container for receiving a pair of canes arranged in nested relation with the top of one adjacent the bottom of the other, and means for insertion between a pair of said nested canes for exerting constant pressure to separate them.

1,755,235. AERIAL MAIL EXCHANGE. LUCY CHICHESTER ASHLEY and WILLIAM B. BAHN, Oklahoma City, Okla. Filed Nov. 15, 1927. Serial No. 233,420. 4 Claims. (Cl. 258—1.)

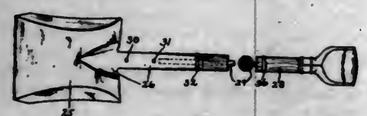
1. An aerial mail exchange comprising a turntable having a pair of upright masts mounted on opposite sides thereof, means associated with the masts for holding a mail pouch for transfer, said last named means embody-

lug slides vertically movable on the masts, and hoisting means for raising and lowering said slides, said masts



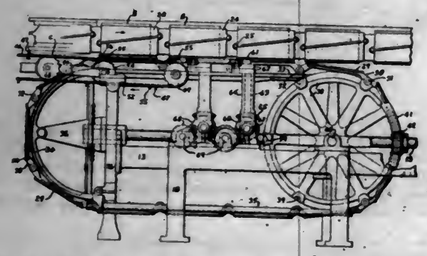
having undercut grooves in the inner sides thereof, and said slides embodying plates slidably held in said grooves and having wedge slots therein.

1,755,236. SHOVEL AND SHOVEL HANDLE. FRANCIS C. BRANDENBURG, Piqua, Ohio, assignor to The Wood Shovel and Tool Company, Piqua, Ohio, a Corporation of Ohio. Filed July 2, 1926. Serial No. 120,210. 5 Claims. (Cl. 294—57.)



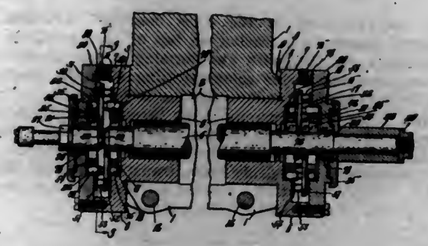
1. A shovel comprising a blade having a handle socket with a wooden handle therein, a rivet which passes through the walls of the socket and through the handle, said handle having an axial bore occupied by a metal rod one end of which is adjacent to said rivet, the other end extending beyond the end of the socket, and means for securing the upper end of the socket to the handle.

1,755,237. BOOK BINDING OR COVERING MACHINE. ALFRED BREDENBERG, Champlain, N. Y., assignor of one-half to The Sheridan Iron Works, a Corporation of New York, and one-half to T. W. & C. B. Sheridan Company, a Corporation of New York. Filed Nov. 14, 1927. Serial No. 233,105. 5 Claims. (Cl. 11—1.)



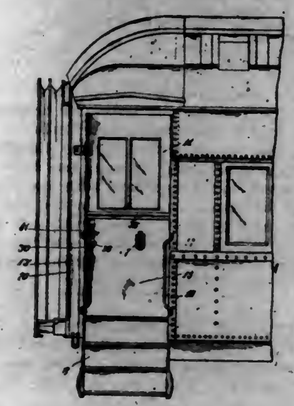
1. In a book binding or covering machine, a traveling conveyor for advancing a succession of books to be operated upon, a means for operating upon the successive books during travel, a common drive member or shaft, connections for advancing the conveyor comprising a first sprocket wheel and rigid link follower between the drive member and conveyor, and connections for actuating the operating means comprising, between the drive member and operating means, a second sprocket wheel, and a second rigid link follower engaged thereby in an actuating relationship timed correspondingly to that of the first sprocket and follower, whereby periodic variations of conveyor travel speed due to the action of the first sprocket wheel are substantially neutralized by synchronous periodic variations in the action of the operating means.

1,755,238. WHEEL HEAD AND THE LIKE. WILLIAM LE ROY BRYANT, Springfield, Vt. Filed Nov. 9, 1926. Serial No. 147,341. 7 Claims. (Cl. 308—203.)



1. A mechanism of the class described comprising a casing having a pair of spaced internal annular walls, a shaft extending through said casing concentrically with said walls, rollers arranged in a pair of series, each roller having portions of small diameter in rolling engagement with said walls and a portion of large diameter in rolling contact with said shaft, said large diameter portions of the rollers of the two series bearing on said shaft at different positions lengthwise thereof, said large diameter portions and said shaft being complementally bevelled at their engagement, the direction of bevelling being reversed at said different lengthwise positions, and means for holding said rollers against axial movement due to such bevelled engagement.

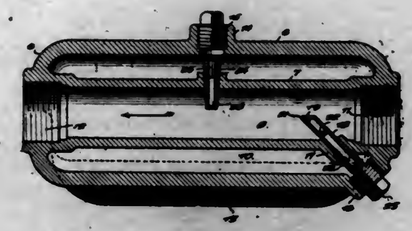
1,755,239. CAR VESTIBULE AND DOOR ARRANGEMENT. EDWARD F. CARRY, Chicago, Ill. Filed Oct. 8, 1928. Serial No. 311,114. 17 Claims. (Cl. 105—429.)



1. In car vestibule construction, the combination comprising the platform, doors having sections operable successively, and locking means associated with said doors to successively release said sections.

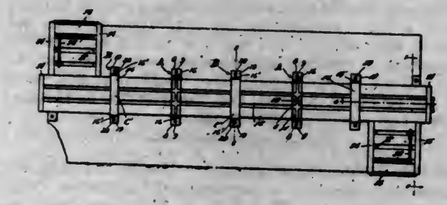
2. In car vestibule construction, the combination comprising the platform, doors having sections operable successively, and associated locking means upon opposite sides of said doors, said means being adapted to successively release said sections.

1,755,240. LUBRICATOR. OMAR E. CLARK, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Mar. 15, 1923. Serial No. 625,852. 10 Claims. (Cl. 184—55.)



1. A lubricator, comprising a casing having a fluid passageway therethrough and a lubricant reservoir, means for permitting the flow of lubricant from the reservoir into the passageway, and means for creating pressure in the reservoir, comprising a stem extending between the passageway and reservoir and having a conduit opening into the latter, said stem having a portion extending into the fluid passageway and the said conduit having an inlet port opening into the passageway in opposition to the flow of fluid through said passageway.

1,755,241. RAILWAY-CAR-RUNWAY CONSTRUCTION. ROBERT W. COB and MILES M. BACON, Tampa, Fla. Filed Jan. 12, 1929. Serial No. 332,117. 3 Claims. (Cl. 105—457.)

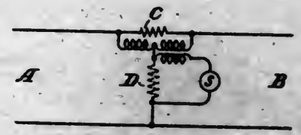


1. In combination with the roof of a freight car a plurality of intermediate brackets mounted crosswise thereon in spaced relation, longitudinal strips mounted on the intermediate brackets, end brackets of greater length than the intermediate brackets each extending to one of the longitudinal sides of the roof and adapted to support one end of the strips, comparatively short strips mounted on the extended portion of the end brackets, supporting legs on the end brackets, a lateral extension thereon having an upwardly and rearwardly turned channel-forming marginal portion for the reception of the strip ends, and an upwardly and inwardly directed retaining tongue on one end of the end brackets for engagement with the upper faces of the comparatively short strips.

1,755,242. PROCESS OF REFINING CRUDE PHTHALIC ANHYDRIDE. COURTNEY CONOVER, St. Louis, Mo., assignor to Monsanto Chemical Works, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 29, 1926. Serial No. 151,605. 12 Claims. (Cl. 260—123.)

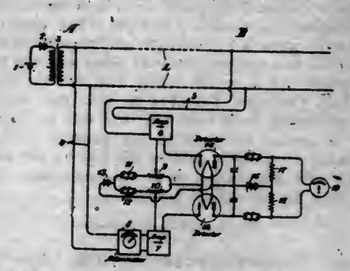
1. In a process of refining crude phthalic anhydride, the steps of adding an aldehydic reacting body to the crude material, and then boiling the mass.

1,755,243. SIGNALING MEANS FOR TELEPHONE SYSTEMS. GEORGE CRISSON, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 21, 1928. Serial No. 301,030. 15 Claims. (Cl. 179—84.)



15. In a transmission system, a network comprising an input and an output line and a measuring circuit, the measuring circuit and the output line being in conjugate relationship.

1,755,244. DEVICE FOR MEASURING LEVEL DIFFERENCES. EGINHARD DIETZE, Westfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 20, 1928. Serial No. 327,441. 3 Claims. (Cl. 179—175.)



1. A device for measuring differences in volume level, comprising two separate input circuits, means for introducing variable amounts of loss or gain in one of said input circuits, means for introducing a controlled amount of gain in the other of said input circuits, rectifiers in each of said input circuits, a Wheatstone bridge comprising as its arms the output circuits of said detectors and two resistances, a common plate battery for said detector tubes connected across the junction points of opposite arms of said bridge, and a galvanometer connected across the junction points of the other opposite arms of said bridge.

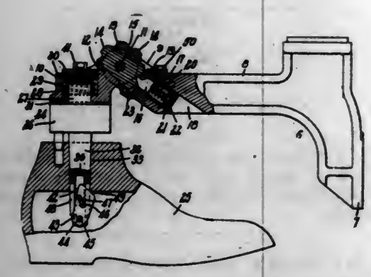
1,755,245. NUT LOCK. AMSIH JOHN ELIAS, Decatur, Ill. Filed Dec. 31, 1928. Serial No. 329,559. 2 Claims. (Cl. 151—31.)



1. In a nut lock, in combination, a bolt having its threaded end slotted longitudinally, a nut mounted upon the threaded end of the bolt, the said nut having its bore diametrically enlarged at its outer end to form a socket, a threaded plug mounted in the said socket, spring clips upon the inner face of the said plug, a flat, wedge-like bolt expander rotatively seated in the spring clips, the opposite end of the said expander being adapted to enter into the said longitudinal slot of the bolt.

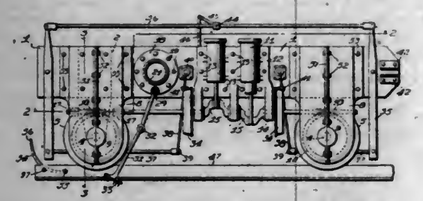
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1,755,246. LASTING JACK. HOWARD G. ELLIS, Waltham, Mass., assignor, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Delaware. Filed Mar. 7, 1929. Serial No. 345,080. 7 Claims. (Cl. 12—123.)



7. A jack for a last having, in combination, a bracket, a connecting member pivotally attached to said bracket, a last holder rotatably mounted upon said connecting member and embodying therein a last pin, a last gripping member pivotally attached to said pin and provided with a cam slot therein, said gripping member being adapted to engage a last positioned upon the holder and lock the last thereto, a bolt yieldingly mounted in said last holder, and means projecting from said bolt into said slot and operatively connecting the bolt to the gripping member, the latter being actuated to release the last by the contact of said bolt with the bracket when the connecting member is moved to a predetermined position.

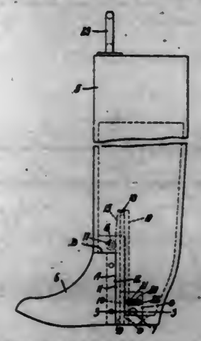
1,755,247. AGRICULTURAL DEVICE. JOHN SAMUEL FIELDING, East Gary, Ind. Filed Oct. 15, 1926. Serial No. 141,791. 5 Claims. (Cl. 97—47.)



1. An agricultural device comprising a vehicle, power means for propelling the vehicle, means for reversing the power means, work arms carried by the vehicle and extending laterally therefrom, and a series of reversible tools carried by the work ams, said tools having two sets of working points, one set being brought into play during the movement of the vehicle in one direction and the other set being brought into play automatically during the movement of the vehicle in the opposite direction.

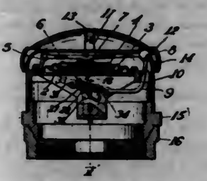
1,755,248. BOOT-TREE. JOHN H. FLINK, Watertown, Mass., assignor, by mesne assignments, to Hood Rubber Company Inc., Watertown, Mass., a Corporation of Delaware. Filed Dec. 3, 1928. Serial No. 323,299. 12 Claims. (Cl. 18—46.)

3. A boot tree or last comprising, in combination, a leg section and a toe section normally abutting together and also separable from each other, a guide member pivotally mounted upon said leg section, another guide member fast



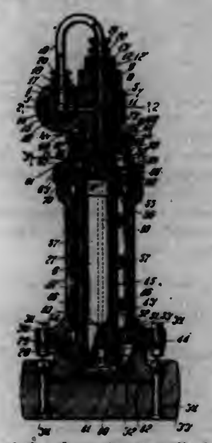
to said toe section and slidable upon said pivoted guide member, and means to hold the toe and leg sections in abutting relation.

1,755,249. SIGNAL. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio. Filed Oct. 10, 1927. Serial No. 225,154. 9 Claims. (Cl. 116—101.)



1. A temperature alarm comprising an air motor consisting of an expansible chamber, a spring for expanding the chamber, a lever moved by the expansion and contraction of the chamber and operating a sound emitting device, a valve establishing communication between the chamber alternately with a source of suction and with the atmosphere, a resilient operating connection between the lever and the valve, a second valve between the first valve and the source of suction, and thermostatic means controlling said second mentioned valve.

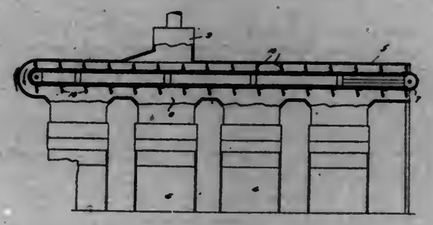
1,755,250. ROLLER JOURNAL. MARTIN FRISCH, St. Louis, Mo., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 9, 1928. Serial No. 253,080. 16 Claims. (Cl. 308—168.)



5. In a device of the character described, a shaft, means in which the upper portion of the shaft is secured for sus-

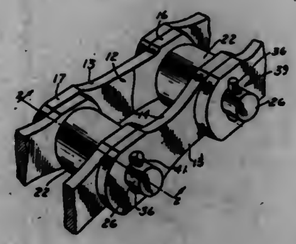
pending the shaft in a substantially upright position, a rotatable assembly including a housing and a pulverizing roller enclosing the lower portion of the shaft, bearings between the shaft and housing, means for lubricating the bearings, and sealing means between the upper end of the housing and the shaft comprising a collar on the shaft, there being a series of spiral grooves in the lower face of the collar, an annular cap on the housing projecting into proximity with the shaft and collar, and annular gaskets mounted in the cap and engaging the shaft and the lower face of the collar respectively.

1,755,251. DISTRIBUTOR SPIKE. PRESTON G. GADDIS, Oklahoma City, Okla. Filed Feb. 23, 1929. Serial No. 342,042. 3 Claims. (Cl. 19—78.)



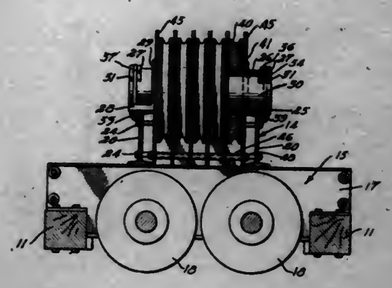
1. A device of the character described, in combination, a distributor belt for use in a cotton gin, provided with a plurality of resilient distributor spikes extending at right angles thereto, each of said spikes being formed of flexible spring steel and provided with a substantially flat portion for attachment to the belt, said flat portion terminating at one end to provide a gradual curve terminating in a vertical portion, said vertical portion being crimped at its upper edge to provide a relatively flat section intermediate said curve and one end of the crimp.

1,755,252. UPSET LOCK PIN FOR CHAIN BELTS. EDWIN W. GOSSER, Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California. Filed May 24, 1926. Serial No. 111,245. 8 Claims. (Cl. 74—32.)



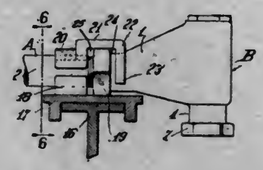
1. In a sprocket chain, the combination of: a pin having a head at one end, there being a hole bored through the opposite end of said pin; link parts having apertures so that when assembled said pin may be inserted through said parts; and a rivet having a head at one end and insertable in said hole, the other end of said rivet then being swedged to bear against one of said link parts to cooperate with said pin-head in unyieldingly clamping said link parts in fixed assembled relation upon said pin.

1,755,253. U-BOLT CONSTRUCTION. EDWIN W. GOSSER, Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 27, 1927. Serial No. 242,943. 16 Claims. (Cl. 308—18.)



1. In a crown block construction the combination of: a frame providing a pair of horizontally spaced supports; a normally stationary sheave shaft; means for positioning end portions of said shaft upon said supports; a plurality of sheaves rotatably mounted upon said shaft; and means rigidly supported upon said frame and engaging said shaft between adjacent pairs of said sheaves to support a portion of the load imposed upon said shaft through said sheaves.

1,755,254. SUPPORTING MEANS FOR FLEXIBLE PIPE MECHANISM. EGBERT H. GOLD, Evanston, Ill.; Margaret Jayne Gold and Biscayne Trust Company executors of said Egbert H. Gold, deceased. Filed Sept. 26, 1927. Serial No. 222,034. 4 Claims. (Cl. 248—81.)

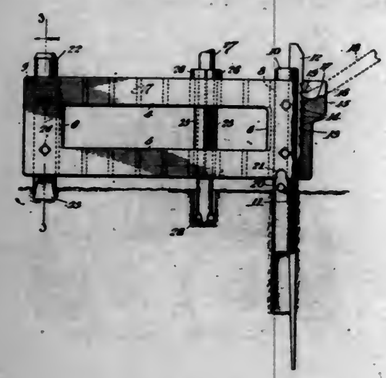


1. A supporting mechanism for a car train pipe and the end train pipe valve connected therewith comprising a support carried by the car, a cradle carried by the support on which the pipe is adapted to rest, there being an outwardly extending flange on the pipe-engaging end of the valve, said flange being adapted to rest on the support adjacent the cradle, and a clamping member secured to the cradle and having a portion adapted to engage over the pipe and a connected portion adapted to extend over the valve and provided with a downwardly projecting arcuate flange adapted to engage down behind the flange on the valve.

1,755,255. GUIDE FOR ROCK DRILLS. RICHARD GRIFFITH, Hydeville, Vt., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Nov. 5, 1926. Serial No. 146,519. 11 Claims. (Cl. 308—8.)

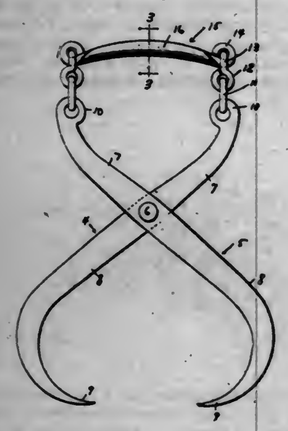
1. In a rock drill guide, the combination with a body having a guideway for the drill steel, of an anchor mov-

ably mounted on the body and adapted to engage in a drilled hole, and means for limiting the amount of in-



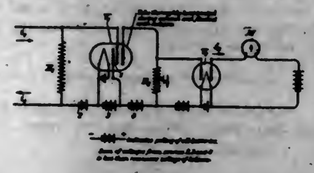
sertion of the anchor into the hole, said means also engaging the body and limiting the movement of the anchor in one direction therein.

1,755,256. ICE TONGS. ERNEST V. HARKNESS, Decatur, Ill. Filed Jan. 18, 1929. Serial No. 333,430. 1 Claim. (Cl. 294—118.)



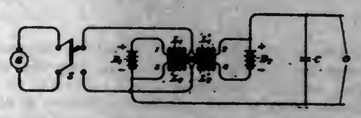
A pair of ice tongs comprising a pair of crossed pivotally connected levers including handle portions and jaw portions, the pivotal connection being disposed between the centers and upper ends of said levers whereby to provide relatively short upper portions and comparatively long lower portions, and a carrying handle connected with the upper extremities of the said handle portion, said carrying handle comprising a longitudinally bowed channel shaped hand grip terminating at its opposite end in connecting hooks, and flexible connectors between the hooks and upper ends of said levers, said flexible connectors each including a ring connected with the complemental lever, and a double-eyed link connected with the ring and with the adjacent hand grip hooks, the eyes of said hook being turned at right angles with respect to each other.

1,755,257. VACUUM TUBE AND METHOD OF PREPARING THE SAME. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Original application filed June 1, 1926, Serial No. 113,020. Divided and this application filed Apr. 26, 1927. Serial No. 186,785. 2 Claims. (Cl. 250—27.5.)



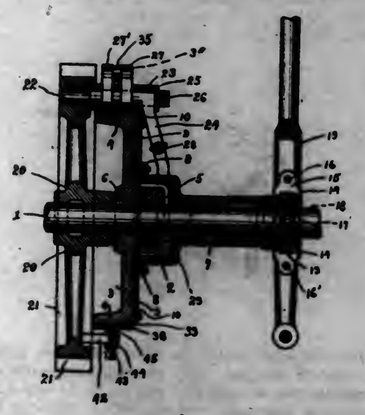
1. The method of preparing a bulb for use as a vacuum tube, which consists in exhausting the bulb of its gaseous contents, heat-treating the bulb during the exhaust process, admitting into the bulb a gas of a high ionization voltage, and repeating the exhaust and heat treatment.

1,755,258. BATTERY-CHARGING CIRCUITS. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 12, 1929. Serial No. 354,607. 3 Claims. (Cl. 171—97.)



1. The combination of two storage batteries of equal terminal voltages, a transformer having two equal windings, one connected between the positive terminals of both batteries and another connected between the negative terminals of the batteries, and a source of direct current connected to the mid-points of both windings of the transformer.

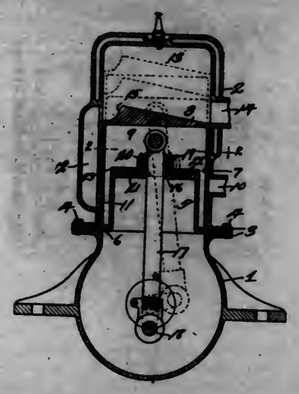
1,755,259. CLUTCH. OMAR R. HUMPHREYS and WALTER G. HUMPHREYS, Omaha, Nebr. Filed July 23, 1927. Serial No. 207,930. 1 Claim. (Cl. 192—35.)



A clutch comprising a shaft, a gear wheel loosely mounted on said shaft, a drum keyed to said shaft, a sleeve slidably mounted on said shaft, a disc mounted on the inner end of said sleeve and being adapted for engagement with

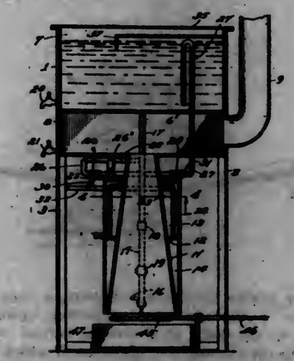
the outer end of said drum when the sleeve is moved forwardly, an outstanding pin mounted in said gear wheel, a lever pivoted on said pin, a pair of outstanding arms on said slidable sleeve, a connecting link for connecting the outer end of said lever to one of said outstanding arms, a spring secured at one end of said lever intermediate the ends thereof and at the opposite end to the other of said outstanding arms, and clutch means surrounding said drum, means for connecting said clutch means and said lever, said spring being adapted to normally urge said lever inwardly whereby to expand said clutch means and release the same from the drum.

1,755,260. INTERNAL-COMBUSTION ENGINE. HARRY L. JOHNSON, Waukegan, Ill., assignor to Johnson Brothers Engineering Corporation, Waukegan, Ill. Filed Dec. 27, 1927. Serial No. 242,798. 19 Claims. (Cl. 123—74.)



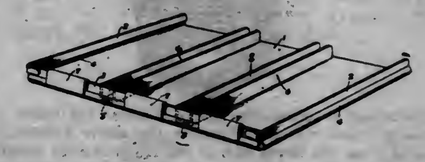
7. The combination with a two-cycle internal combustion engine of the transfer type, of a dome having a substantially flat upper portion extending upwardly into a compression chamber of a piston, a connecting rod carried by said piston, said connecting rod having an oscillating and reciprocating connection with the dome.

1,755,261. WATER-HEATING APPARATUS. HARRY N. LEAVITT, Springfield, Mo. Filed Mar. 28, 1925. Serial No. 17,520. 2 Claims. (Cl. 122—458.)



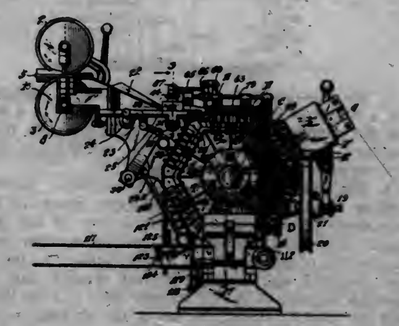
1. In a water heating apparatus, a boiler having a flue, a chamber into which said flue discharges having an outlet, a tank above the boiler and above said chamber, a water conductor connecting the tank and boiler for supplying water by gravity from the tank to the boiler, and having a check valve which opens toward the boiler arranged to conduct water by gravity from said tank to said boiler, a steam conductor connected to the boiler and having two branches, one of which discharges into said tank, the other branch opening to the atmosphere and serving as a means for drawing steam from the boiler for external use, and means for shunting the steam in the steam conductor from one to the other of said branches.

1,755,262. PRINTER'S GALLEY. JAMES EDGAR LEE, Grand Haven, Mich., assignor to The Challenge Machinery Company, Grand Haven, Mich., a Corporation of Michigan. Filed June 11, 1928. Serial No. 284,309. 5 Claims. (Cl. 276—40.)



1. A printer's galley comprising, a bottom, sides extending upwardly from opposite side edges of the bottom, an upwardly extending front at the front edge of said bottom, and a plurality of channels located with the webs thereof in contact with the upper side of the bottom and with the legs thereof extending upwardly, said channels being permanently secured to the bottom and having the legs thereof substantially parallel with said sides.

1,755,263. MACHINE FOR MAKING ANNULAR PIECES OF CANDY. ESECK C. MILLER, Newark, N. J.. Filed Oct. 30, 1928. Serial No. 315,986. 12 Claims. (Cl. 107—4.)

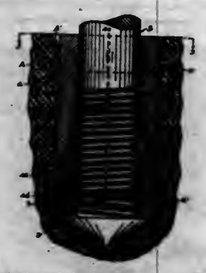


2. A machine of the character described, comprising a support having a flat surface and a plurality of die cavities therein, means for feeding and temporarily holding a strip of material to be operated upon in the plane of said flat surface, means for dividing said strip into pieces while it is so held, and means movable in substantially said plane for moving said pieces from said feeding means and depositing each of said pieces into one of said die cavities.

1,755,264. MEANS FOR ANCHORING BOLTS. RICHARD A. MIRZAN, Syracuse, N. Y., assignor to American Bolt Anchor Corporation, Syracuse, N. Y., a Corporation of New York. Filed Feb. 25, 1929. Serial No. 342,514. 1 Claim. (Cl. 85—2.4.)

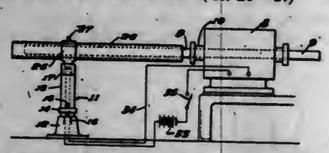
An anchoring unit for securing a screw-threaded bolt to masonry formed with a socket having its bottom end closed to support said unit including in combination, a

hollow frusto-conical member inserted in said socket and internally threaded throughout its length to receive said bolt, said member having its base portion formed to seat against a part of the bottom of the socket and being of substantially the same diameter as the socket, and an inherently expansive sleeve having a wall unbroken except by a single longitudinal slot extending throughout its length, said sleeve being formed with an internally tapered portion complementary to the frustro-conical member and



terminating a substantial distance below the upper end of said sleeve, the lower end of the sleeve terminating spaced from the lower end of the frusto-conical member, said sleeve being initially of larger diameter than the socket whereby the same is inherently expanded into engagement with the walls of the socket and forcibly expanded into engagement with the latter upon engagement of the sleeve with the frustro-conical member to provide an anchor for said bolt.

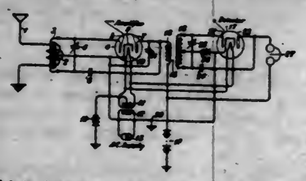
1,755,265. WORK GUARD. WILLIAM G. MUELLER, Denver, Colo., assignor to Gardner-Denver Company, Denver, Colo., a Corporation of Delaware. Filed Apr. 16, 1928. Serial No. 270,429. 5 Claims. (Cl. 29—1.)



1. The combination with a metal working machine having a rotatable chuck for holding bar stock of a housing for the portion of the bar stock that projects from the machine, and means controlled by the housing for controlling the operation of the chuck.

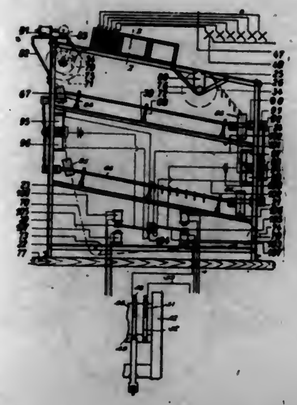
5. The combination with a metal working machine including an electrically driven rotatable chuck for holding bar stock, of a standard located in rear of the chuck, a circuit controller including a movable member mounted in the top of the standard, a head hinged to the top of the standard and adapted to rest thereon and on the movable member of the circuit controller to close the same, and an electric circuit including the driving means for the chuck and the circuit closer.

1,755,266. TUNED RADIO FREQUENCY AMPLIFIER. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 31, 1924. Serial No. 759,096. 2 Claims. (Cl. 179—171.)



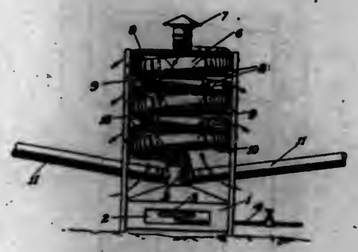
1. In a high frequency signaling system, the combination with an amplifier having a vacuum tube of an input circuit and an output circuit, a detector circuit, a transformer having its primary winding connected with the said amplifier output circuit and its secondary winding connected with the detector circuit, and a condenser connected in parallel with the said primary winding the magnitude of the capacitance and inductance of the said condenser and the said primary winding respectively being such that the impedance of the combination is high for the frequencies to be amplified and low for parasitic frequencies whereby oscillations of the said amplifier at parasitic frequencies is prevented.

1,755,267. CONTROL DEVICE FOR ELECTRIC ILLUMINATED SIGNS. WALTER OSTERMAYER, Berlin-Schoneberg, Germany. Filed Sept. 8, 1925, Serial No. 54,191, and in Germany Sept. 2, 1924. 3 Claims. (Cl. 200—46.)



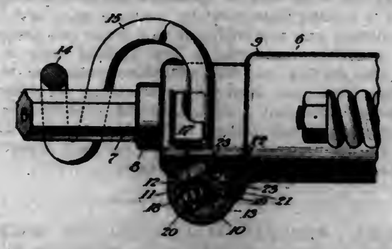
1. In apparatus of the character disclosed, sign elements, a plurality of magazines adapted to hold each a plurality of sign elements, a conveyor for sign elements movable into alternate positions of cooperation with one or another of said magazines, and a guideway, the said conveyor being adapted to convey the sign elements from one or another of the said magazines through said guideway.

1,755,268. AIR HEATER. DONALD PARKER, Fresno, Calif. Filed Feb. 23, 1929. Serial No. 342,014. 5 Claims. (Cl. 126—59.5.)



1. An air heater including a firebox, a source of heat therein, and a discharge flue projecting upwardly from the firebox in the form of a vertical helical coil exposed all around to the atmosphere, the turns of which are spaced from each other and from the fire-box and means associated with the coil for causing air passing between the firebox and the coil and moving upwardly in the area included by said coil to be caught and deflected outwardly of the heater between the turns of the coil.

1,755,269. TOOL HOLDER. GUSTAV C. PEARSON, Denver, Colo., assignor to Gardner-Denver Company, Denver, Colo., a Corporation of Delaware. Filed Apr. 19, 1928. Serial No. 271,383. 4 Claims. (Cl. 121—82.)



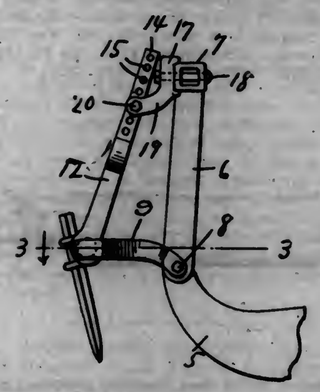
1. The combination with a tool holder, of a tool retainer pivotally mounted thereon, a yielding plunger mounted on and having a swinging movement with the retainer, and a toggle link having a bearing against the plunger and against a fixed portion of the tool holder.

1,755,270. COIN-SLOT GUARD. WILLIAM RABKIN, New York, N. Y. Filed Aug. 13, 1928. Serial No. 299,263. 4 Claims. (Cl. 194—99.)



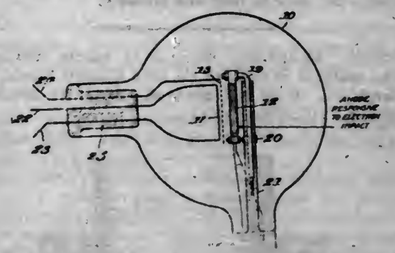
1. The combination of a coin chute, and an element covering the entrance end of the coin chute and provided with a coin slot, one wall of the coin chute being spaced from said element and having a tongue projecting to the element at the side of the coin slot therein, a pair of jaws mounted upon the said wall of the coin chute and movable toward and from each other and provided adjacent the coin slot with elements covering the slot at the exit side thereof, and means for yieldably holding the jaws together.

1,755,271. PULVERIZER ATTACHMENT FOR CORN PLANTERS. CARL ROSEN, Media, Ill. Filed Mar. 17, 1928. Serial No. 262,429. 1 Claim. (Cl. 97—179.)



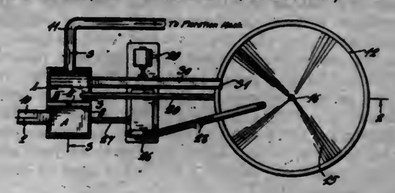
A pulverizer attachment for corn planters wherein the planter includes a runner, a link projecting upwardly from the forward end of the runner, and a cross beam at the upper end of the link comprising a beam, a plurality of teeth, means for attaching the teeth to the last mentioned beam, a bracket on the first mentioned beam, a yoke having openings in its extremities, through which the second mentioned beam extends, arms engaged with the bottom of the link and the ends of the second mentioned beam, a bar extending from the yoke, means for adjusting the connection of the bar with the bracket, said means attaching the teeth and second mentioned beam comprising U-shaped clamp members having apertured extremities through which the teeth extend, and a set screw threaded through the bights of the U-shaped clamp members to engage on the second mentioned beam to hold the teeth tightly against said second mentioned beam.

1,755,272. VACUUM-TUBE APPARATUS. SAMUEL RUBEN, New York, N. Y., assignor, by mesne assignments, to Ruben Tube Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 4, 1922. Serial No. 534,213. 12 Claims. (Cl. 250—27.5.)



12. An anode composed of spaced conductors normally electrically disconnected and bridged by material responsive to energy variations to vary the electrical conductivity of said anode.

1,755,273. DEVICE FOR CONDITIONING ORES. JOSEPH P. RUTH, Jr., Denver, Colo. Filed Feb. 11, 1929. Serial No. 339,051. 5 Claims. (Cl. 209—3.)

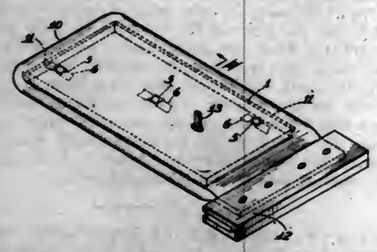


1. A conditioning device comprising, in combination, a reception tank divided into two compartments by means of a transverse partition, means for delivering ore pulp to one of the said compartments, a conditioning tank, means for transferring pulp from the bottom of the reception compartment to the top of the conditioning tank, means for transferring pulp from the bottom of the conditioning tank to the other compartment of the reception tank, means for conducting overflow from the top of the conditioning tank to the last named compartment, a weir in the wall between the two compartments of the reception tank and means for adjusting the height of the weir and an overflow from the second named compartment.

1,755,274. METHOD FOR REMOVING DEFECTS OF JOINDER FROM COMPOSITE GLASS PLATES. JAMES H. SHEETS, Glen Ridge, N. J., and WILLIAM O. LYTLE, New Kensington, Pa., assignors to Duplate Corporation, a Corporation of Delaware. Filed July 7, 1928. Serial No. 290,948. 2 Claims. (Cl. 49—81.)

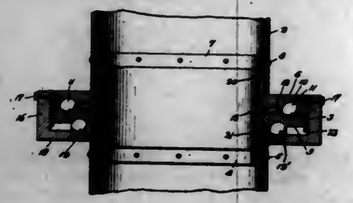
1. A method of correcting a defect of joinder in a composite plate consisting of sheets of glass with interposed

sheets of reenforcing material cemented thereto, which consists in applying a pressure localizing button of larger



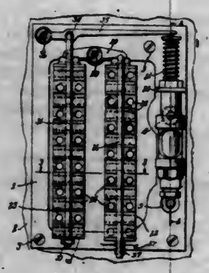
area than the defect to be corrected to the face of one of the glass sheets in opposition to such defect, and then exposing the plate to heat and pressure.

1,755,275. BEARING. WILLIAM O. SMITH, Wilkinsburg, Pa., assignor of one-half to John Clifford Young, Pittsburgh, Pa. Filed Feb. 25, 1928. Serial No. 256,957. 8 Claims. (Cl. 308—230.)



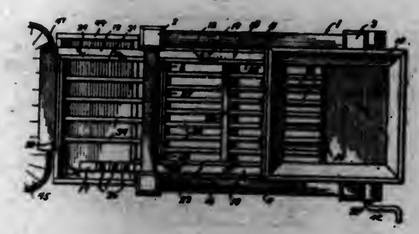
1. In a ball bearing mounting, the combination with oppositely disposed tubular members, of annular rings connected one to each of the aforesaid members, said rings having opposed annular grooves, the groove of the lower ring having openings leading therefrom, a retainer interposed between said rings and having equidistantly spaced apertures and also provided with flanges overlapping the respective first-mentioned members interiorly of the latter, bearing balls in said apertures of the retainer to run in said opposed grooves of the rings under the influence of rotation of one of the tubular members and to maintain the retainer spaced from the lower ring, and devices secured to the upper ring and carrying parts extending under and engaging the lower ring to secure the rings together.

1,755,276. HUMIDISTAT. ROY B. SOMERS, Muskegon, Mich. Filed May 31, 1927. Serial No. 195,512. 2 Claims. (Cl. 236—44.)



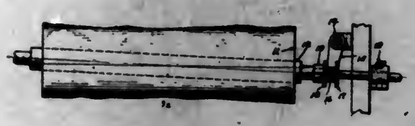
1. A device of the type described comprising a frame, a body portion carried by said frame and having an inlet and an outlet, communication between said inlet and said outlet, a valve for varying the flow of liquid through said inlet, spring means for normally holding said valve open, a lever pivotally mounted at one end upon said frame and having the other end in operative connection with said valve, a rocking lever pivotally mounted upon said frame, a stationary unit mounted upon said frame and having one end operatively connected to said rocking lever, a movable unit having one end operatively connected to said rocking lever, and means for connecting the other end of said movable unit to said actuating lever whereby said stationary unit may actuate said rocking lever for moving said movable unit and said movable unit may actuate said pivotal lever for actuating said valve.

1,755,277. SEPARATING AND GRADING MACHINE. PETER C. STAUP, Sheffield, Ala. Filed June 7, 1927. Serial No. 197,174. 1 Claim. (Cl. 209—99.)



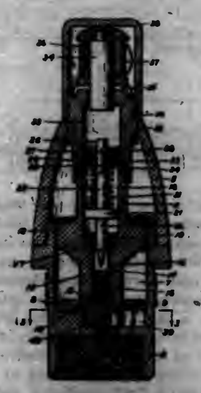
In a machine of the class described, a frame, a screen mounted in the frame, means for imparting reciprocatory movement to the screen, the screen including a frame and screen bars extending longitudinally therein, a cross piece extending within the said screen frame transversely of the screen bars with its upper edge substantially in the plane of the upper edges of the screen bars, and a trash engaging finger extending upwardly from the cross piece intermediate its ends and above the plane of the screen bars to engage and longitudinally dispose trash lodging transversely on the screen bars.

1,755,278. ROLLER ARRANGEMENT FOR PRINTING PRESSES. WILLIAM JAMES STRAIN, Upper Montclair, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed July 18, 1928. Serial No. 293,507. 8 Claims. (Cl. 101—348.)



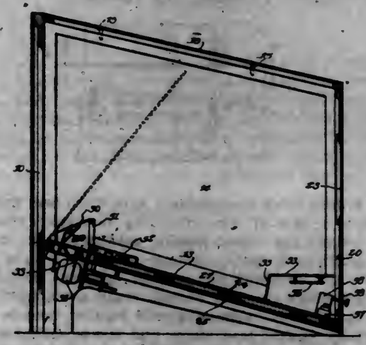
1. A device of the class described including, a rotatable cylinder, a roller rotatable about a yieldable axis, and helically disposed relative to the cylinder, and arranged so that the periphery of the roller engages the periphery of the cylinder.

1,755,279. COMBINATION FUSE. ALFRED F. TRITSCHRID, Wharton, N. J. Filed June 27, 1928. Serial No. 288,570. 10 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



10. In a fuse, a firing pin, a spring for actuating the pin and locking means carried by the firing pin normally holding the firing pin against the action of the spring and releasable upon movement of the firing pin under the influence of inertia.

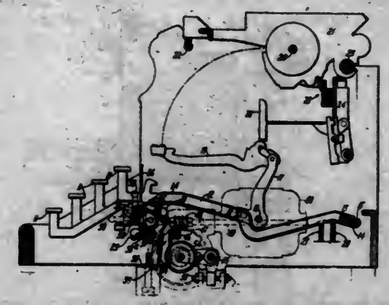
1,755,280. MINIATURE MOTION-PICTURE THEATER. ALEXANDER FERDINAND VICTOR, Davenport, Iowa. Filed Dec. 15, 1924. Serial No. 756,047. 16 Claims. (Cl. 88—24.)



1. A motion picture display device comprising a housing the front wall of which is provided with an opening and the walls extending therefrom converging towards the rear, mechanism for moving films in a horizontal plane and mounted adjacent the front wall of said housing, a screen positioned to receive the images from the film, a flat substantially horizontal floor inclined downwardly from the front wall towards said screen, and a film container underneath said floor the film supporting surface of which is flat and inclined parallel with the floor, whereby the film placed loosely within said container is maintained upon its longitudinal edge and by gravity at the lower portion of said container.

1,755,281. TYPEWRITING MACHINE. RICHARD VON REPPERT, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 28, 1927. Serial No. 221,451. 25 Claims. (Cl. 197—17.)

1. In a typewriting machine, the combination of a constantly-rotating, electromagnetised actuator for a typing mechanism that includes a lever having a positive driving connection with a type-bar, a key-lever, and means carried by the type-bar-lever and operated directly by the

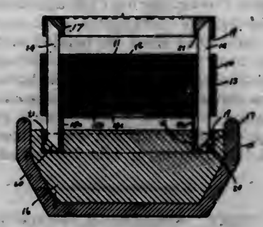


key-lever, to magnetically connect said type-bar-lever with the magnetised actuator, to drive the type-bar by the magnetic attraction or cohesion with said means.

1,755,282. FUEL COMPOSITION. HENRY C. WILLIAMS, Sargent, Nebr. Filed Oct. 20, 1927. Serial No. 227,612. 1 Claim. (Cl. 44—7.)

A fuel mixture including cellulose pulp in finely divided form mixed with sawdust in substantially the ratio of three parts of cellulose pulp to seven parts of sawdust, the mixture including also a relatively small amount of potassium nitrate, the mixture of cellulose pulp, sawdust and potassium nitrate being moistened with a mixture of a liquid petroleum derivative, an alcohol and an alcohol soluble coloring matter, the alcohol serving as a source of heat, as a deodorant for the petroleum derivative and as a carrier for the coloring matter.

1,755,283. ROTOR WINDING AND METHOD OF MOUNTING END RINGS. FRANK ADAMS, Indianapolis, Ind. Filed July 11, 1927. Serial No. 204,889. 8 Claims. (Cl. 172—120.)

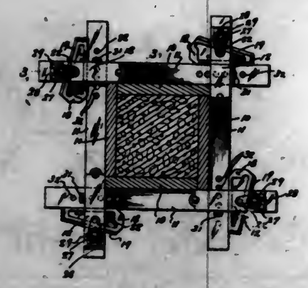


1. In the process of forming squirrel cage rotors, the step of immersing an end ring forming mold with projecting ends of the rotor winding extending therein into molten metal of the desired character until the mold and ends are covered to simultaneously form an end ring and unite the end ring to the winding ends for completing the rotor winding.

1,755,284. CONCRETE-FORM-CLAMPING DEVICE. SAMUEL S. COLT, Orange, N. J. Filed May 29, 1928. Serial No. 281,413. 5 Claims. (Cl. 144—291.)

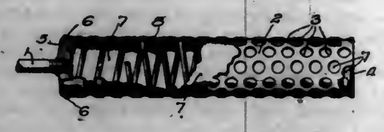
1. In a form clamping device, a clamp bar structure having means at one end to mount a tightening wedge for operative movement relative thereto and means to receive the end of a cooperating clamp bar to dispose the same between said wedge and the form to which the clamping device is applied, said wedge mounting means

having a releasable gripping means engageable with said wedge to lock the same in desired operative position, and said wedge having a depressed portion in a face



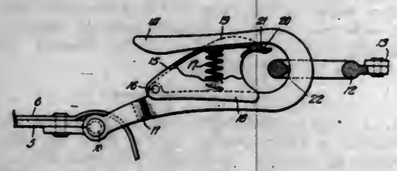
thereof bounded by keeper shoulders adapted to cooperate with said gripping means when the latter is loosened to thereby retain said wedge in assembled relation to said clamp bar structure.

1,755,285. SAMPLE TUBE. ARTHUR B. CUNNINGHAM, Chicago, Ill., assignor to Republic Flow Meters Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1922. Serial No. 593,200. 6 Claims. (Cl. 183—73.)



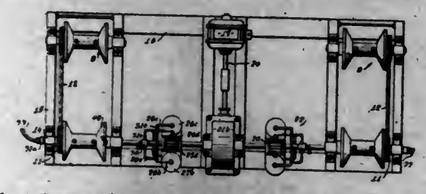
2. A sample tube for securing hot flue gases for analysis by CO_2 recorders or other purposes comprising a tubular member of sheet metal forming an intake for said gases, said tubular member having perforated side walls and having one end thereof closed, a filter sheet of woven asbestos cloth positioned against the inner face of the perforated wall of said tubular member said asbestos cloth being sufficiently porous to permit the gas sample to readily pass through without the application of pressure while preventing the entrance of solid matter, a coil of wire within said filter sheet for holding said sheet against said wall to cover the openings therethrough so that gas entering said tubular member passes through said filter sheet, a removable closure for the opposite end of said tubular member to permit access to said tubular member for cleaning or other purposes, and a conduit communicating with the interior of said tubular member.

1,755,286. SNAP. CHARLES H. DAVIS and HENRY W. LUECK, Park Ridge, Ill., assignors to Mathias Klein and Sons, Chicago, Ill., a Corporation of Illinois. Filed May 15, 1929. Serial No. 363,140. 10 Claims. (Cl. 24—233.)



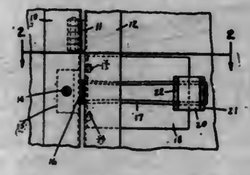
1. In a device of the character described, a snap having a spring-pressed keeper, a ring therein and cooperating means on said ring and snap whereby to permit depression of said keeper by the ring to remove said ring only when the ring is in one definite position relative to said snap.

1,755,287. BRAKE-TESTING MACHINE. PAUL J. DONAVAN, Los Angeles, Calif., assignor, by mesne assignments, to Bendix-Cowdrey Brake Tester Inc., Fitchburg, Mass., a Corporation of Delaware. Filed May 8, 1926. Serial No. 107,679. 11 Claims. (Cl. 265—25.)



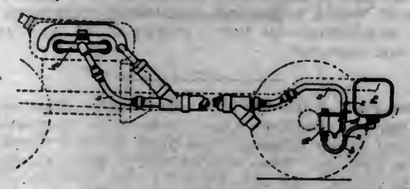
1. A brake tester for testing the brake action on the wheels of an automobile that the brake resistance on opposite wheels may be compared and equalized, comprising in combination, wheel supporting and turning means for supporting and turning the opposite wheels of an automobile, a power shaft between said means for the opposite wheels, a motor for driving said shaft, driving connections between the opposite ends of the power shaft and said means and constructed to insure the simultaneous rotation of the wheel turning means at each side of the automobile, including fluid confining receptacles between each end of the power shaft and a wheel supporting and turning means and adapted to exert a pressure on the confined fluid corresponding to the driving force imparted to an automobile wheel to turn it under brake resistance, and an indicator adapted to be actuated by the pressure exerted upon said confined fluid.

1,755,288. DOORCHECK. FLOYD K. EASTMAN, Kokomo, Ind., assignor to Concealed Door Check Company, Kokoma, Ind., a Corporation. Filed May 5, 1928. Serial No. 275,277. 2 Claims. (Cl. 16—86.)



1. A door check comprising a wire strap bent upon itself to form a pair of legs extending in spaced relation to each other and substantially parallel when in operative position, a rubber bumper provided with a pair of spaced and substantially parallel openings therethrough, through which the legs of said strap are adapted to extend for slidably supporting said bumper thereon against the closed end of said strap, and means mounted on the legs of said strap adjacent said bumper for normally pinching said legs together whereby the free ends thereof will be maintained under tension when mounted in operative position.

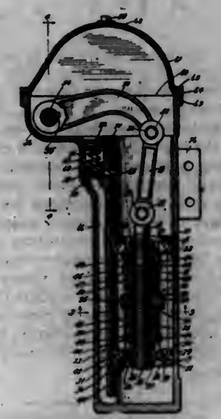
1,755,289. FUEL MIXER. WILLIAM A. EDWARDS, Chicago, Ill. Original application filed Sept. 20, 1924, Serial No. 738,773. Divided and this application filed Dec. 3, 1926. Serial No. 152,368. 6 Claims. (Cl. 261—76.)



1. In a fuel mixture feeding apparatus, a fuel mixture conduit comprising a greater Venturi passage and a lesser

Venturi passage, the lesser passage being positioned wholly within the greater and having its discharge mouth located proximate the plane of maximum depression of said greater venturi; a continuous fuel supply duct extending for discharge into the lesser venturi substantially at the zone of greatest constriction of said lesser venturi and continued therebeyond for discharge in the greater venturi at a zone of the latter of substantially less than maximum depression.

1,755,290.. SHOCK ABSORBER. ERIK FLOOR and EJNAR SEJERSEN, Chicago, Ill. Filed July 5, 1927. Serial No. 203,308. 8 Claims. (Cl. 188—88.)



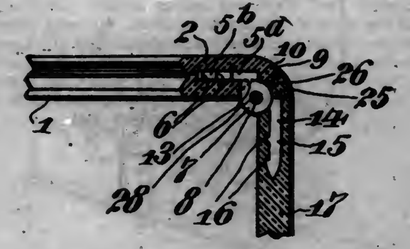
1. In a shock absorber, the combination of a receptacle with a fluid in said receptacle, an actuating element, an inertia and pressure responsive element resiliently supported on said actuating element for movement through said fluid, and a valve supported on said actuating element for increasing the effective area of said pressure responsive element when the latter lags behind said actuating element.

1,755,291. LINGERIE FASTENER. CAROLINE L. FOX, New York, N. Y. Filed June 30, 1927. Serial No. 202,594. 7 Claims. (Cl. 241—25.)



1. A lingerie fastener, comprising a pair of hooks connected together side by side, and each in the form of a substantially closed eye, the extremity of each hook being directed into the eye and located sufficiently close to the adjacent portion of the fastener to provide a throat which is greatly contracted relatively to the width of the opening of the eye, across from the extremity of the hook, whereby the threading of a garment loop through the throat for engaging it in the eye is permitted with difficulty, and the accidental disengagement of the loop from the eye is precluded.

1,755,292. METHOD OF MAKING OPHTHALMIC MOUNTINGS. LEO O. GAGNON, Newark, N. J., assignor, by mesne assignments, to Continental Optical Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Original application filed Apr. 15, 1926, Serial No. 102,162. Divided and this application filed June 11, 1927. Serial No. 198,263. 7 Claims. (Cl. 18—59.)



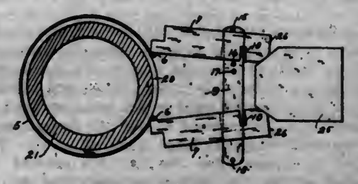
4. The method of making articles of the class described which comprises the formation of a longitudinally extending opening in the forward end portion of a nonmetallic member, inserting a hinge member in said opening, compressing the material of said member around the said hinge member and thereafter removing portions of said material to expose peripheral portions of the ears formed upon the said hinge member.

1,755,293. CAP. ARTHUR GOLDSTEIN, Milwaukee, Wis., assignor to Eagle Knitting Mills, Milwaukee, Wis., a Copartnership consisting of Max Karger and David Karger. Filed Apr. 6, 1929. Serial No. 353,064. 1 Claim. (Cl. 2—201.)



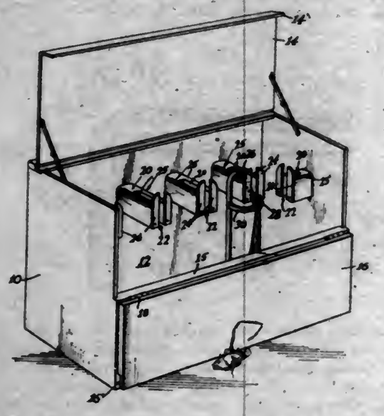
A helmet shaped cap having knitted fabric front, top and rear portions, and interposed relatively narrow leather side portions extending from the lower periphery of the cap toward the top portion thereof and terminating short of the apex of the cap.

1,755,294. PISTON-RING CLAMP. RAY GROVER, Milwaukee, Wis. Filed Oct. 17, 1928. Serial No. 312,977. 10 Claims. (Cl. 28—86.4.)



1. The combination with a ring encircling clamp, of clamp operating means comprising a first arm connected with said clamp, a link connected with said first arm, and a second arm connected with said clamp and adjustable upon the link.

1,755,295. SHIPPING AND DISPLAY CASE FOR BRIDLES. MARCO H. HELLMAN, Los Angeles, Calif. Filed Dec. 10, 1927. Serial No. 239,070. 2 Claims. (Cl. 206—44.)



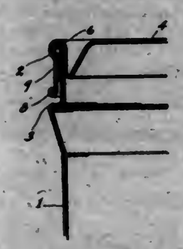
2. A shipping and display case for animal bridles comprising a container having an opening and closure therefor, and a plurality of bridle supporting posts each having a central vertical opening for the reception of the forehead straps of animal bridles when mounted on said posts secured to one of the vertical walls of said container and extending outwardly therefrom, said posts being spaced apart and disposed in horizontal alinement.

1,755,296. FASTENING FOR POUCHES, WALLETS, AND ALL KINDS OF LEATHER CONTAINERS. WILLIAM C. HIBBING, Newark, N. J., assignor to J. E. Margott Co., Newark, N. J., a Corporation of Delaware. Filed May 31, 1928. Serial No. 281,666. 6 Claims. (Cl. 24—230.)



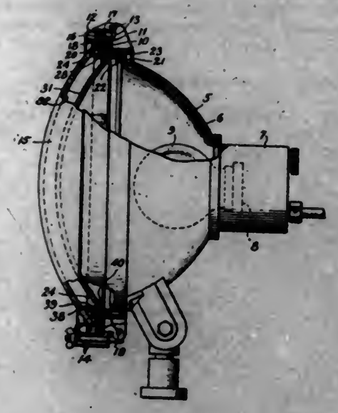
4. A fastener for flexible containers having a flap comprising a socket rigidly fixed to the wall of the container, a support frame fixed on the edge of the flap, a spring clip hinged at one of its ends to said frame and provided with a lug at its outer end, said socket being inclined to facilitate entry and confinement of the clip therein and having an inreaching marginal ledge with which the clip lug is adapted to engage after the clip has entered into and expanded within the socket, whereby the flap may be latched to the wall of the container by inserting the clip within the socket, the clip lug engaging the socket ledge on the expansion of the clip in the socket and whereby the flap will be unlatched from the wall of the container by depressing the clip, disengaging its lug from the socket ledge.

1,755,297. CAN. EDWARD HILDEBRANDT, Tacoma, Wash. Filed Nov. 17, 1926. Serial No. 148,898. 1 Claim. (Cl. 220—59.)



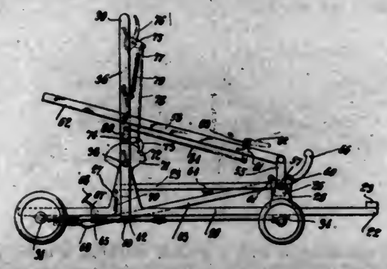
A can comprising a body having an outwardly projecting bead extending about its mouth, a cover for the can having a downturned peripheral flange fitted over and extending below the bead about the mouth of the can body; said flange having a triangularly shaped tongue pressed inwardly therefrom, leaving the lower rim of the flange intact, separated from the flange along its base edge and along its side edges to a point closely adjacent the vertex of the tongue, leaving a narrow connecting portion adapted to be broken by twisting the tongue; said tongue being pressed back and beneath the bead thereby drawing the base end of the tongue upwardly within the narrow portion of the opening that is formed by removal of the tongue from the flange, and thereby necessitating that the tongue be twisted in order to permit its removal outwardly through the opening.

1,755,298. COLOR FLOOD LIGHTING. PAUL M. HOTCHKIN, Chicago, Ill. Filed Apr. 28, 1927. Serial No. 187,283. 2 Claims. (Cl. 240—41.)



1. In a flood-light projector an open front housing, reflector supporting means positioned in said housing back of the opening, a reflector mounted in said means, lens-holding means mounted on said supporting means, a colored glass lens carried by said holding means, and a closure plate of heat-resisting glass for the front of said housing and spaced from said colored lens whereby the latter is entirely enclosed within the projector and protected from atmospheric elements and colored light is projected from said housing through the heat resisting glass.

1,755,299. STEERING DEVICE. ARVID I. LINDEN, Brooklyn, N. Y. Filed Dec. 4, 1926. Serial No. 152,616. 5 Claims. (Cl. 280—87.5.)



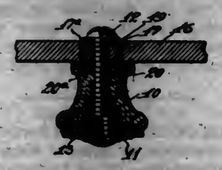
1. In a device of the class described, the combination with a vehicle frame provided with a foot stand, and a steering member, of two steering control levers pivotally mounted one at each side of said frame movable in a front to rear direction, and extending to a point within convenient reach of a child standing on said foot stand, and continuous flexible connection between said steering control levers and said steering member, causing one of said levers to move in one direction when the other lever is moved in the opposite direction.

1,755,300. HAT. JOSEPH S. MARZAK, Baltimore, Md., assignor to Lion Brothers Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed Nov. 15, 1929. Serial No. 407,317. 1 Claim. (Cl. 2—175.)



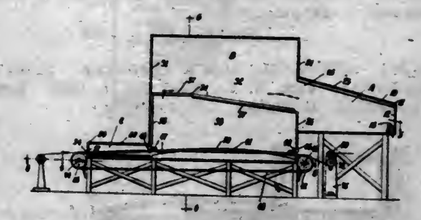
A sailor's or similar fabric hat having an upwardly projecting brim formed of layers of stiffening material and hat material, a stiffening cord at the top edge connected to said stiffening material and said hat material, which latter is double and has a fold line at the top, by a line of stitching extending through said folded cover material near the fold and through said stiffening material near the top and through the cord, said hat material covering the brim on both sides and also covering the cord, said fold being secured between the cord and the top edge of the stiffening material by said stitching, the brim being further formed with a series of lines of stitching extending through and through said respective layers of material and around the brim circumferentially and spaced apart in the direction of the width or height of the brim.

1,755,301. KNOB. WILLIAM E. MCCULLOUGH, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Aug. 13, 1928. Serial No. 299,173. 2 Claims. (Cl. 16—121.)



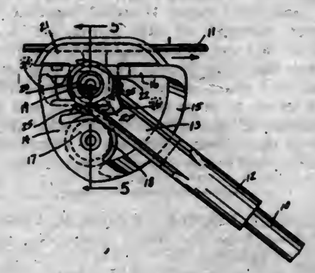
1. In combination with the front wall of a drawer, a knob comprising a body portion adapted to lie flat against the outer surface of a drawer wall and having a central aperture therein, a frontal portion having a threaded opening therein extending nearly to the outer surface thereof, a screw passing through an opening in the drawer wall through said central opening in the body portion and fitting into a threaded opening in the frontal portion whereby said knob is attached to said drawer.

1,755,302. APPARATUS FOR DYEING, COLORING, AND COATING. PIETER MIJER, New York, and LESTER C. SCOTT, Brooklyn, N. Y., and GEORGE S. RADFORD, New Canaan, Conn., assignors, by mesne assignments, to Two-Tone Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 23, 1926, Serial No. 89,830, and in Hungary Mar. 7, 1925. 8 Claims. (Cl. 8—18.)



8. An apparatus for dyeing textile fabrics, comprising a closed dye-applying chamber, a closed atomising chamber external thereto but communicating therewith, and a travelling apron passing through the dye-applying chamber to support a fabric travelling therethrough.

1,755,303. SLIDING TROLLEY. GILES S. MOORE, Indianapolis, and OTTO MOORE, Frankfort, Ind. Filed Dec. 22, 1928. Serial No. 327,778. 5 Claims. (Cl. 191—59.1.)

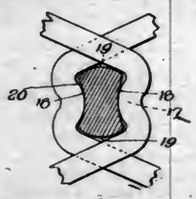


1. A device for making electrical contact with a trolley wire, including a trolley harp, a mounting pivotally supported on said harp, a contact shoe slidably secured to said mounting adapted to make contact with said wire when moved in one direction, and an auxiliary contact member supported on said mounting in position to make contact with said wire when moving in the opposite direction, said sliding shoe being so mounted as to slide with respect to said mounting upon a reversal of its movement for over-balancing said mounting and causing it to swing into position to present the auxiliary contact member to said wire.

1,755,304. FASTENER FOR BELTS AND THE LIKE. JOHN CONRAD OLSEN, Chicago, Ill., assignor to Flexible Steel Lacing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 17, 1928. Serial No. 320,050. 12 Claims. (Cl. 24—33.)

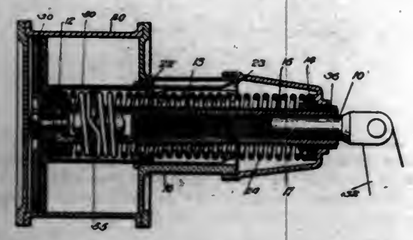
1. In a flexible fastener of the character described, the combination with interdigitated loop-like hinge means

adapted to be secured to the opposite ends of a flexible power transmitter; of a single connecting pin extending through the loop-like portions of said hinge means; and



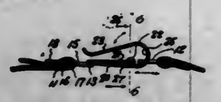
cooperating fulcrum means on said hinge means and pin providing a rockable engagement therebetween, eccentric to the axis of said pin.

1,755,305. AUTOMATIC SLACK ADJUSTER. ALDEN E. OSBORN, New York, N. Y. Filed Oct. 4, 1923. Serial No. 666,629. 10 Claims. (Cl. 188—202.)



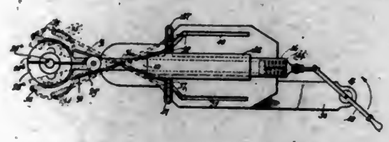
1. In an automatic slack adjuster the combination of a brake cylinder, a piston in said cylinder, a piston rod actuated by said piston and rotatably connected thereto, an adjustable member extending outside of said cylinder and connecting said piston rod with the parts to be operated by the movement of said piston, said adjustable member and said piston rod being threaded together, a ratchet disc slidably mounted on said piston rod, a collar rotatable about said rod and having teeth engaging teeth on said ratchet disc, and means whereby said collar is rotated, upon said piston exceeding a certain predetermined amount of travel, to cause the rotation of said piston rod, thru the locking of said ratchet teeth during the return of said parts to their normal position, to adjust the relation of said piston said brake operating connection.

1,755,306. SHOE BUCKLE. SAMUEL M. RIKER, Chester, N. J. Filed June 15, 1928. Serial No. 285,591. 1 Claim. (Cl. 24—75.)



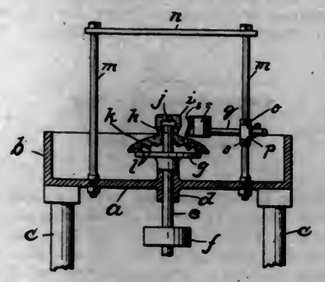
In a device of the kind described, a base-plate having at one end a plurality of slots to provide means to adjustably connect a strap end thereto, said base-plate having a pair of laterally spaced bearing arms longitudinally extending from its opposite end and upwardly off-set from the plane of said base-plate, said base-plate further having a longitudinal leaf spring between said arms and also upwardly off-set from the plane of said base-plate, a hook-shaped clasp-tongue having pivot studs extending from its base and journaled in said bearing arms, said clasp-tongue further having a rearwardly projecting impingement lug underlying said leaf spring whereby said clasp-tongue is yieldably retained in closed position with its base and impingement lug disposed to lie substantially in the plane of said base plate when in such closed position, and a loop-member to receive the separable connection of said clasp-tongue therewith.

1,755,307. MACHINE FOR MAKING VACUUM BOTTLES AND THE LIKE. ERICH H. ROHL, Chicago, Ill., assignor to The Mantle Lamp Company of America, Incorporated. Filed May 8, 1923. Serial No. 636,888. 2 Claims. (Cl. 49—1.)



1. In combination with a sealing machine, a mold, pins arranged on said mold, scissor-like means attached to said pins, pins fastened to the other ends of said scissor like means, said pins being guided within grooves arranged in the support means for said mold, and a handlever connected to the shaft of said mold.

1,755,308. APPARATUS FOR FINISHING INSULATOR SHELLS. WILLIAM HENRY SMITH, Norristown, Pa., assignor, by mesne assignments, to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 11, 1927. Serial No. 160,509. 1 Claim. (Cl. 25—3.)



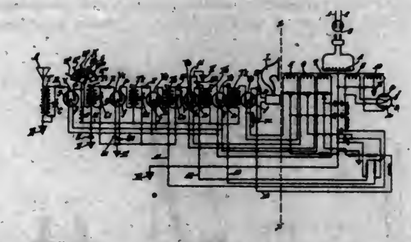
In an apparatus of the character described, in combination, a vertical shaft adapted to be rotated, a plate mounted on said shaft in a plane transverse to the axis of the shaft, a post extending from said plate coaxially of said shaft and a tool pivotally supported on an axis parallel to the axis of said shaft and adapted to be swung into and out of operative engagement with a piece of work supported on said plate.

1,755,309. PROCESS FOR DEOXIDIZING COPPER. CYRIL S. SMITH, Cambridge, Mass., assignor of one-half to Carle R. Hayward, Quincy, Mass. Filed July 8, 1926. Serial No. 121,270. 11 Claims. (Cl. 148—11.)

1. A method for the treatment of copper containing oxygen, comprising reducing the same chemically at a temperature below the melting point, and consolidating the reduced metal to a condition of physical homogeneity.

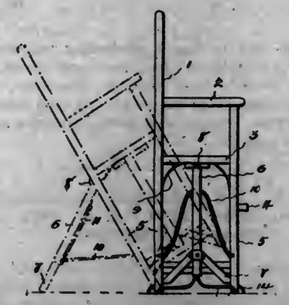
1,755,310. VOLUME CONTROL. SARKES TARZIAN, Philadelphia, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 19, 1927. Serial No. 234,347. 2 Claims. (Cl. 179—171.)

1. The combination with a stabilized thermionic amplifier having input and output circuits, of means in the output circuit for coupling it substantially solely electromagnetically to another circuit, and a variable capacity in series with said means in said output circuit adjustable throughout its range for controlling volume without decrease of stability of the amplifier.



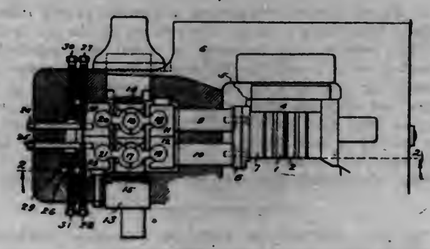
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1,755,311. SUPPORT FOR CHAIRS, STANDS, AND THE LIKE. ALBERT W. BAILEY, New Haven, Conn. Filed Mar. 28, 1927. Serial No. 178,901. 2 Claims. (Cl. 155—77.)



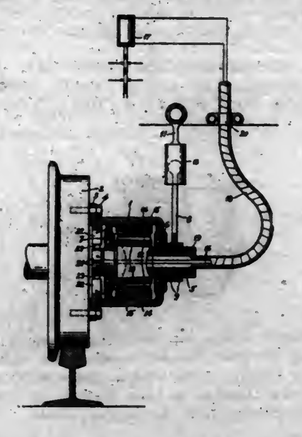
1. In combination with supporting means for chairs, stands or the like; an auxiliary spring operated leg or prop; means comprising a latch for retaining said leg or prop in its closed position; a tripping means for releasing said latch operating automatically and means comprising a spring normally under compression for throwing said leg or prop into its open or supporting position.

1,755,312. OPEN-DIE-HEADING MACHINE. CHARLES T. BRENNAN, Waterbury, Conn. Filed June 29, 1928. Serial No. 289,236. 7 Claims. (Cl. 10—16.)



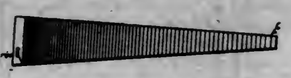
4. In an open die heading machine in combination with the dies, a plurality of toggles for closing and transferring the dies, a backing plate engaging toggle members and movable transversely of the toggles, said plate having opposed angular faces for imparting an inter-dependent relative adjustment to the toggles, a backing wedge engaging said plate, and screws engaging the ends of said plate and wedge for adjusting them longitudinally of the toggles.

1,755,313. ELECTRIC SPEED GOVERNOR. WILLIAM E. BUTLER, Easton, Pa. Filed Feb. 26, 1927. Serial No. 171,184. 1 Claim. (Cl. 246—182.)



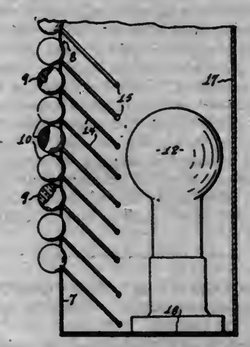
An electrical governor comprising a rotor casing having a magnetic field, one end of the casing being open and the other end closed, the casing having means at its open end for securing it to the face of a locomotive or car wheel, or the like, an armature journaled within the casing and projecting through said closed end of the casing, means connected to the projecting portion of the armature to prevent rotation thereof, and electrical translating means connected electrically with said armature.

1,755,314. RHEOSTAT AND POTENTIOMETER. ALVA J. CARTER, Chicago, Ill., assignor to Carter Radio Company, Chicago, Ill., a Corporation of Illinois. Filed June 11, 1928. Serial No. 284,887. 2 Claims. (Cl. 201—63.)



1. A device of the character described comprising an insulating base having wound thereon a resistance wire the adjacent turns of which gradually decrease in distance apart and increase in length from one end to the other of the strip.

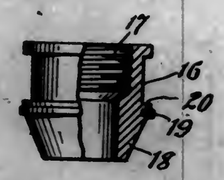
1,755,315. CHANGEABLE SIGN. ROWLAND N. CHUBB, Los Angeles, Calif. Filed Oct. 22, 1927. Serial No. 227,999. 9 Claims. (Cl. 40—28.)



1. In a sign a face plate provided with a plurality of apertures, a plurality of members one removably lodged

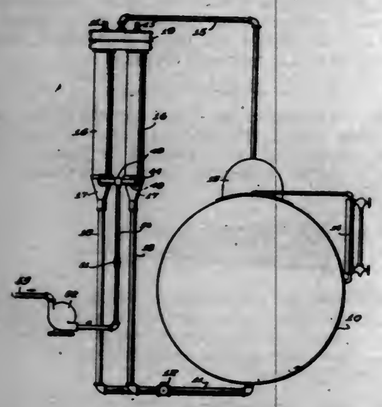
in each aperture, each member being larger than the corresponding aperture, and having its major bulk disposed forwardly of said plate, certain of said members being translucent and others being opaque, and a lamp behind said face plate.

1,755,316. AUTOMOBILE RADIATOR CAP. FRANCISCO O. DE ALCOCER, Los Angeles, Calif. Filed Jan. 5, 1928. Serial No. 244,692. 6 Claims. (Cl. 220—24.)



1. A radiator filling cap including a supply nozzle receiving wall adapted for frictional liquid tight connection with a supply nozzle nad a check valve associated with said wall movable to open position by the pressure of the liquid flowing from the supply nozzle.

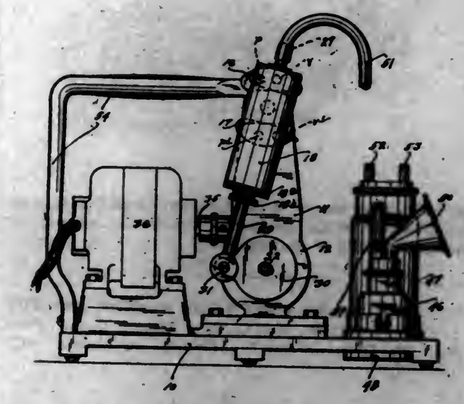
1,755,317. BOILER FEED-WATER APPARATUS. ROBERT L. DENNISON, Kansas City, Mo. Filed Jan. 10, 1927. Serial No. 160,270. 2 Claims. (Cl. 137—101.)



1. Apparatus of the character described comprising a pair of vertical cylinders adapted to communicate at their lower ends with the lower portion of a boiler, a piston mounted to reciprocate in each cylinder, a source of water sufficient to elevate said pistons, a pipe connected between said source and the lower ends of said cylinders, a check valve in said pipe adapted to open to permit water to flow into said cylinders, a valve cylinder, a valve reciprocable in said cylinder and movable to opposite ends thereof to alternately connect said first named cylinders to the atmosphere and to the boiler to receive steam pressure therefrom, and means for shifting said valve comprising an auxiliary valve controlled by movement of said pistons and adapted to alternately deliver fluid pressure to opposite ends of said valve cylinder and to exhaust pressure therefrom.

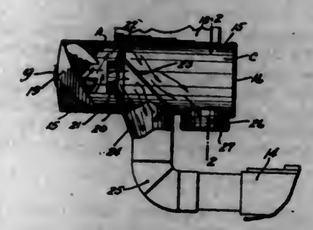
1,755,318. VACUUM PUMP OR PULSATOR. LAURITS DINESEN, Minneapolis, Minn. Filed July 6, 1926. Serial No. 120,626. 2 Claims. (Cl. 230—40.)

1. In a device of the kind described, the combination of a base, a pedestal secured on said base and formed with connected upper and lower pressure ports and connected upper and lower vacuum ports, a pump cylinder pivoted to said pedestal and having upper and lower ports engageable alternately with the pressure and vacuum ports of said pedestal, a motor-driven crank mounted on the lower portion of said pedestal, a piston working in



said cylinder and having a projecting rod connected to said crank, a nipple on the upper end of said cylinder to which a flexible tube may be connected, means for opening and closing said nipple at will, and means for connecting a flexible tube at will to the pressure and vacuum ports of said pedestal.

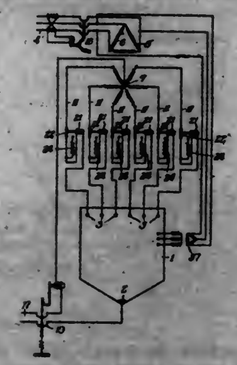
1,755,319. AIR CLEANER. FRANK A. DONALDSON, Minneapolis, Minn. Filed Oct. 16, 1924. Serial No. 743,980. 6 Claims. (Cl. 183—90.)



1. An air cleaner comprising a tubular casing formed with a separating chamber through which the air moves without reversing its direction of travel, said separating chamber at one end having means for causing the incoming air to take a whirling motion and provided at its other end with an axial air discharge port of less cross section than said separating chamber, and a dust chamber having a port located in the upper portion of said chamber and eccentric to said air outlet port and connecting said separating chamber to said dust chamber.

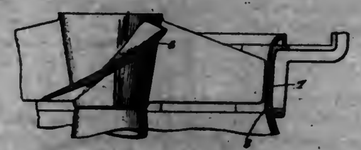
1,755,320. RECTIFIER SYSTEM. ARTHUR GAUDENZI, Baden, Switzerland, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Aug. 22, 1927, Serial No. 214,505, and in Germany Aug. 28, 1926. 9 Claims. (Cl. 17—363.)

1. In a rectifier installation, a mercury vapor rectifier comprising mercury cathode means and a plurality of anodes providing a plurality of parallel rectifying paths, a polyphase transformer having a plurality of star-arranged windings connected to said anodes, a plurality of current-limiting resistors associated with the individual anode circuits, and reverse current relay means associated



with said circuits for inserting said current-limiting resistors in the respective anode circuits in response to a reverse current flow therein.

1,755,321. WELDING HYDRAULIC APPARATUS. JOHN B. HENDRICKSON, Philadelphia, Pa., assignor to Welding Engineers Incorporated, a Corporation of Delaware. Filed Apr. 2, 1926. Serial No. 99,356. 3 Claims. (Cl. 103—114.)



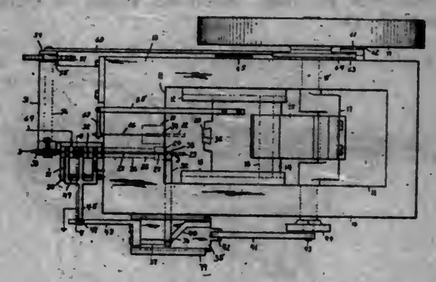
1. In a hydraulic machine, a cast member having a fluid surface of predetermined contour, said cast member comprising a body portion provided with a recessed portion within a predetermined area, and a layer of welding material deposited by welding in said recessed portion of said body portion at said area to form a portion of said fluid surface and surfaced to give the desired predetermined contour, thereby providing an integral homogeneous structure including a cast support and a layer of welded material thereon as a compact tough surfacing resistant to corrosion.

1,755,322. CASTER SOCKET. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Nov. 4, 1926. Serial No. 146,123. 4 Claims. (Cl. 16—39.)



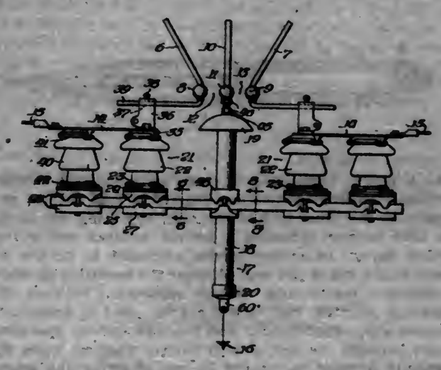
1. In a caster socket, a socket frame adapted to be inserted in an opening in a furniture leg, or the like, and including a top pintle bearing portion and spaced side leg portions, an apertured base portion connected to said frame, pintle retaining spring means carried by said base portion, and spring means disposed in the spaces between said side leg portions adapted to frictionally engage the inner surface of said leg to retain said frame therein.

1,755,323. MACHINE FOR FORMING HOT METAL. ALBERT O. HERRON, Waterbury, Conn. Filed Sept. 14, 1928. Serial No. 305,925. 2 Claims. (Cl. 219—8.)



1. In a hot-metal forming machine, the combination with the feed-mechanism and cut-off mechanism thereof; of an electric heater positioned to heat a portion of the stock extending between the said mechanisms and including two electrodes one of which is movable with respect to the other; and automatic means for periodically moving the said movable electrode into and out of engagement with the stock; whereby the said stock may be heated to a sufficiently high temperature to permit maximum forming without subjecting it to stretching and deformation before being cut off.

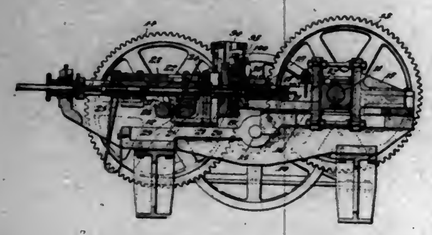
1,755,324. LIGHTNING ARRESTER. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers Equipment Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 31, 1924. Serial No. 703,025. 4 Claims. (Cl. 175—30.)



1. In combination, a supporting frame, an insulator projecting endwise from and disposed wholly upon one side of said frame, means at one end of said insulator for attaching same to said frame, a line electrode mounted upon the opposite end of said insulator, a resistance unit of such character that its length must exceed the distance from said line electrode to the frame in order to provide a resistance sufficient to exclude the flow of appreciable dynamic current following a discharge to ground, means attached to said resistance unit intermediate its ends and to said frame for supporting said resistance unit upon said frame with one end projecting from one side of said

frame and freely positioned in proximity to said line electrode and the opposite end passing through the plane of said frame and projecting from the opposite side of the frame with said opposite end freely positioned at a distance from the opposite side of the frame, a ground electrode mounted directly upon the end of said unit in proximity to said line electrode, and a ground connection on the opposite end of said resistance unit.

1,755,325. NUT-FORGING MACHINE. JAMES A. KINNEY, Lebanon, Pa., assignor to Bethlehem Steel Company. Filed Mar. 31, 1926. Serial No. 98,690. 5 Claims. (Cl. 10—72.)



4. In a nut forging machine, the combination of a die block, reciprocating tools, means to actuate said tools, and a mechanism for feeding a stock bar, said mechanism comprising a pair of shafts, a roll mounted on each of said shafts, a ratchet wheel fixed to one of said shafts, a reciprocatory slide, a pawl member mounted on said slide and adapted to engage said ratchet wheel, a rotatable cam to actuate said slide, and means controlled by the operator to hold the slide out of engagement with said cam, thereby rendering the latter inoperative.

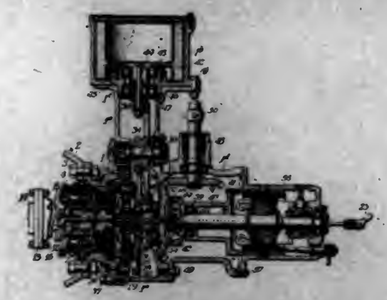
1,755,326. PENCIL. ELSIE KLAGGES, Glendale, N. Y. Filed Feb. 21, 1928. Serial No. 255,901. 2 Claims. (Cl. 120—18.)



1. A pencil comprising a case, an operating member revolubly mounted at one end thereof, a lead carrier projectible at the other end of the case, operating means for the lead carrier including a helical member and a lost motion device, an eraser carrier arranged to project an eraser at the end of the case adjacent the operating member, a combined rotary and slidable connection between the operating member and eraser carrier, and a connection between the eraser carrier and the lead carrier operating means through the lost motion device, whereby when the operating member is rotated in one direction the eraser is projected and thereafter the lead is projected; and in the other direction, the lead is first retracted and thereafter the eraser is retracted.

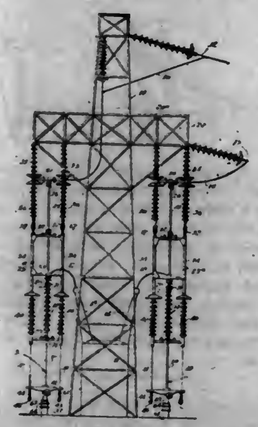
1,755,327. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed May 14, 1927. Serial No. 191,842. 29 Claims. (Cl. 123—179.)

1. An engine starter including torque transmitting means having a driving member adapted to engage and crank a member of the engine to be started, an inertia means, a low speed high torque electric motor, and a train of speed multiplying means, opposite ends of which



train cooperates with the inertia means and motor respectively, said torque transmitting means being operatively connected with said train.

1,755,328. SUSPENSION DISCONNECTING SWITCH AND MOUNTING THEREFOR. FREDERICK H. MAYER, Los Angeles, Calif. Filed Sept. 1, 1925. Serial No. 53,335. 13 Claims. (Cl. 200—48.)

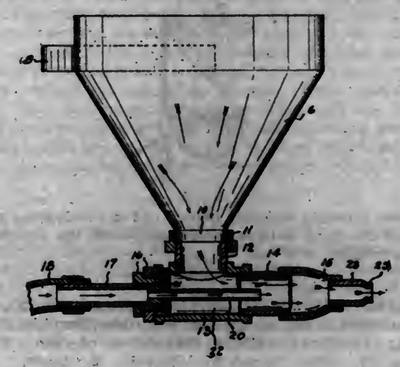


1. A switch to be carried by a line supporting tower and having its upper end attached to the tower, and means attaching the other end of the switch to the ground independently of the tower, the switch including, two spaced contacts, means supporting the contacts so that they are insulated from each other and from the tower and the ground, a blade movable into and out of position where it connects the contacts, and means whereby one of the contacts is electrically connected with the ground independently of the tower when the blade is out of position where it connects the contacts.

1,755,329. PNEUMATIC GUN FOR APPLYING MORTAR. LAWRENCE E. MCCORMACK, Seattle, Wash. Filed Mar. 14, 1927. Serial No. 175,040. 2 Claims. (Cl. 91—45.)

1. In a pneumatic mortar gun, a receptacle having a discharge opening in the bottom end and convergent toward said discharge opening, a T fitting connected with said bottom and forming a passageway crosswise of said discharge opening and communicating therewith, discharge nozzle means connected with one end of said T fitting, and affording an abrupt annular shoulder within said

T fitting, a reducer fitting at the other end of said T fitting, pressure inlet conduit means connected with said reducer fitting, and a relatively small injector tube disposed axially within said T fitting and supported by

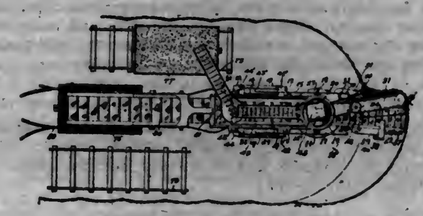


said reducer fitting and communicating with said pressure inlet conduit means, the discharge end of said injector tube extending beyond the inlet opening to said receptacle and terminating just beyond said abrupt annular shoulder.

1,755,330. PRIMING MIXTURE. JOSEPH D. MCNUTT, New Haven, Conn., assignor, by mesne assignments, to Winchester Repeating Arms Co., New Haven, Conn., a Corporation of Delaware. Filed Mar. 23, 1927. Serial No. 177,842. 6 Claims. (Cl. 52—3.)

1. A priming mixture, comprising a metallic fulminate, an oxidizing agent having a non-corrosive residue, a fuel having a non-corrosive residue and diphenylamin.

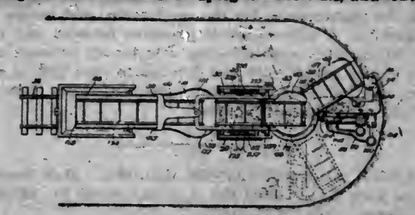
1,755,331. COMBINED COAL MINING AND LOADING MACHINE. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Dec. 3, 1919, Serial No. 342,218. Renewed Feb. 12, 1930. 49 Claims. (Cl. 262—28.)



43. In a mining machine, the combination with a supporting frame, of a plane chain kerf-cutter mounted thereon for adjustment relatively thereto on a horizontal transverse axis and on an upright axis means for operating said kerf-cutter, and a breaker connected to said kerf-cutter to always lie in the plane thereof irrespective of its adjustment on said axes and movable into the kerf cut by said kerf-cutter.

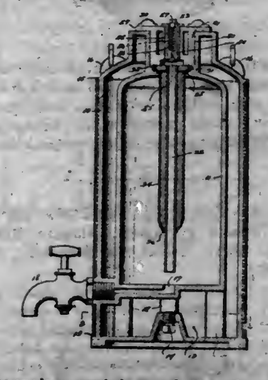
1,755,332. MINING AND LOADING APPARATUS. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Dec. 23, 1919, Serial No. 346,903. Renewed Aug. 26, 1929. 69 Claims. (Cl. 262—9.)

1. In a mining and loading machine, digging mechanism, framework for supporting said digging mechanism for arcuate movement along an upright mine wall, hydraulic means for pushing said digging mechanism to dislodge material from such upright mine wall, and loading



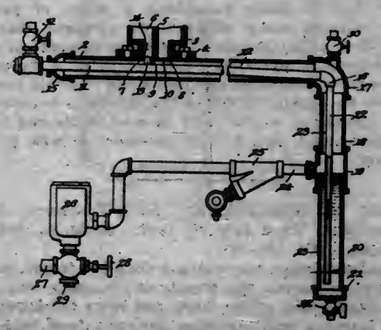
apparatus for automatically receiving the dislodged material and transferring such dislodged material to loading position.

1,755,333. VACUUM CONTAINER. WARREN M. MYERS, Saginaw, Mich. Filed Dec. 20, 1928. Serial No. 327,365. 5 Claims. (Cl. 225—21.)



1. A dispensing container of the character described having an outlet faucet or tap at its lower end, a removable closure for the upper end of the container which when removed permits liquid to be poured into the container and which when closed permits the inlet of air thereinto, an air valve disposed in said closure and yieldingly urged to a closed position, the air valve having a means whereby it may be manually shifted, the closure having upwardly projecting bosses extending beyond the upper end of the air valve to prevent the accidental operation of the valve.

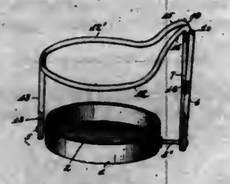
1,755,334. DRYING APPARATUS. THOMAS W. PROSSER, Kankakee, Ill., assignor to Paramount Textile Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed July 13, 1925. Serial No. 43,216. 6 Claims. (Cl. 34—16.)



1. A two-pipe drying system comprising a feed-pipe, a return-pipe, a series of hollow drying units communi-

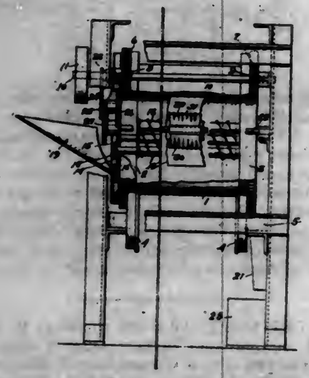
cating with the feed-pipe and all draining into the return-pipe, free passageways for condensate and foreign matter from each of said pipes, a common outlet communicating with the passageways for the condensate, and means for maintaining a differential in pressure between the feed and return pipes and including a water-leg between said pipes and in circuit with and common to each unit of said series and operating to prevent passage of steam from the feed-pipe into the return-pipe.

1,755,335. MILK-CONTAINER HOLDER. MAX ROMAN, New York, N. Y. Filed Feb. 2, 1929. Serial No. 336,962. 4 Claims. (Cl. 215—100.)



1. A milk bottle container holder, comprising a base, a pair of clamping ring sections, and means for pivotally connecting the ring sections with the base, part of said means acting as handle members for manipulating the ring sections for lifting the holder when the same is transported.

1,755,336. SELF CLEANING, SORTING, OR SIFTING MACHINE. FRANK P. RYDER, Niagara Falls, N. Y. Filed Feb. 8, 1928. Serial No. 252,819. 10 Claims. (Cl. 209—296.)



1. Means for sorting or sifting objects having greater length than thickness comprising a series of parallel shafts carrying screw elements so arranged that the peripheries of the threads of the screw elements of adjacent shafts are approximately in contact and the spaces between their threads on such two screw elements form an aperture for passage of one of the objects to be sorted or sifted, means for rotating said parallel shafts and means for causing said objects to be presented endwise to said apertures.

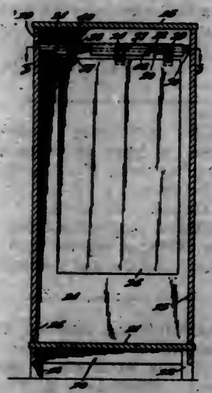
1,755,337. ANIMAL FEEDER. LOUIS J. SCHEITEL, Manitowoc, Wis. Filed July 28, 1927. Serial No. 209,098. 1 Claim. (Cl. 119—61.)

An animal feeder comprising a frame, a trough, means pivotally connecting the trough at its upper rear edge to the lateral sides of the frame and below the upper side of the frame, a wall extending upwardly from said edge of the trough to close the frame above the trough, said wall contacting with the frame to support the trough in operative position, walls extending upwardly from the end walls of the trough, and a hood secured to the frame and having a top portion overlying the trough and end



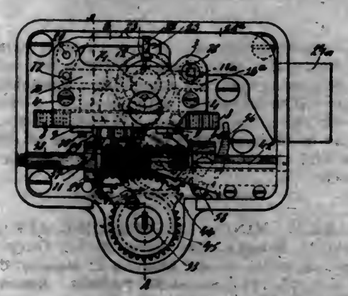
portions arranged laterally beyond and in overlapping relation to the walls extending upwardly from the end walls of the trough.

1,755,338. SUSPENSION DEVICE. SAMUEL SMILEY, Jr., Cincinnati, Ohio, assignor to The Globe-Wernicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 23, 1928. Serial No. 279,999. 2 Claims. (Cl. 129—16.)



1. A device of the class described, comprising, a rack structure, a series of parallel support rods mounted in said rack for receiving a series of sheet-supporting clips, and a rider having sliding engagement with said rack and embracing but not bearing on said rods at right-angles thereto for sliding the sheet clips on the rods.

1,755,339. SECURITY LOCK. CARL GUSTAF LEONARD SJÖLANDER, Dalsborg, Sweden. Filed July 5, 1923, Serial No. 649,753, and in Sweden Apr. 24, 1920. 6 Claims. (Cl. 70—70.)



1. In combination, a lock operable by a key and including a spindle adapted to be located in a door structure,

a key receiver located on the outside of the door, said receiver having a cylinder movable therein, a wing on said cylinder adapted to stop against the steps of a key, teeth on said cylinder, fixed members adapted to co-operate with said teeth to rotate the cylinder step by step and guide it during axial movement, means connecting the spindle and cylinder for moving the latter axially, a lock mechanism located on the inside of the door structure and including a toothed cylinder operable by said spindle, wings on the second cylinder, racks operable by the second cylinder, and toothed tumblers co-operating with said racks, said tumblers being brought into their unlocking position during oscillation of the spindle, the first mentioned cylinder being adapted to be stopped against the steps of a key.

1,755,340. DIRECTOR FIRING SYSTEM. ELMER A. SPERRY, Brooklyn, N. Y., and ELMER MEITNER, Los Angeles, Calif., assignors, by mesne assignments, to Sperry Gyroscope Company, Inc., a Corporation of New York. Original application filed Apr. 9, 1917, Serial No. 160,877. Divided and this application filed Sept. 28, 1929. Serial No. 394,685. 36 Claims. (Cl. 177—351.)



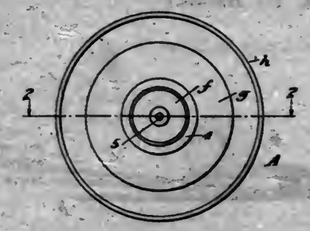
1. In a gun fire control system, a transmitting instrument, a remotely located receiving instrument connected thereto whereby the bearing of a target observed at a point remote from the receiving instrument may be transmitted to said receiving instrument, means for applying a correction to the bearing prior to transmission and for transmitting the corrected bearing to cause the receiving instrument to indicate approximately the bearing of the target with reference to said receiving instrument, and means, including an element the position of which depends on the bearing transmitted for indicating the correction to be applied.

9. In a gun fire control system, a transmitting instrument, a receiving instrument, connections between said instruments whereby they are operated in synchronism, means for shifting a part of said connections to cause said receiving instrument to step ahead of or drop behind said transmitter, indicating means connected to said first mentioned means and means for changing the zero point of said indicating means.

18. A fire control indicator comprising a pair of conjointly readable rotatable indicators of target bearing and gun positions, means for rotating each indicator through one revolution for each revolution of the target and gun respectively, a second pair of conjointly readable rotatable indicators of target bearing and gun positions mounted adjacent the first pair, means for rotating each indicator of the second pair through a plurality of revolutions for each revolution of the target and gun respectively, a signal for showing when to observe the coincidence of said indicators, and means for actuating said signal when the first mentioned pair approach coincidence.

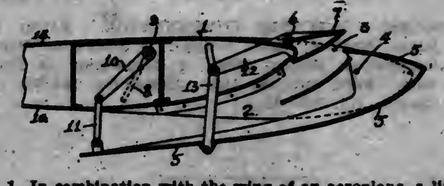
22. In a fire control system, a target bearing transmitter, a gun position transmitter, a follow-the-pointer receiving instrument adjacent a gun and actuated from both of said transmitters, said instrument comprising a plurality of pairs of pointers, one pointer of each pair being the target bearing indicator and the other the gun position indicator, the different pairs of pointers being arranged to rotate at multiple speeds, and means for introducing corrections into the positions of one of each pair of pointers, said means including means for introducing such corrections into one of said transmitters.

1,755,341. WASHING MACHINE. CHARLES E. STANLEY, Glendale, Calif. Filed Sept. 3, 1929. Serial No. 389,910. 8 Claims. (Cl. 259—97.)



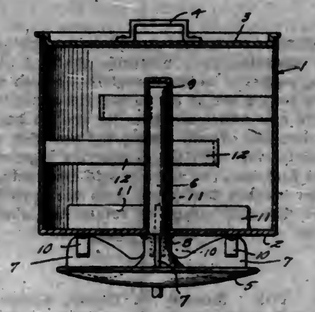
1. In a washing machine, a pair of concentric spaced foraminous members forming therebetween a jacket, a base member between and inwardly spaced from one end of said foraminous members, and a cap secured to and closing one end of the foraminous members.

1,755,342. LIFTING ATTACHMENT FOR AEROPLANE WINGS. HENRI GUSTAVE TISSOT, West Oakland, Calif. Filed Aug. 5, 1929. Serial No. 383,645. 2 Claims. (Cl. 244—12.)



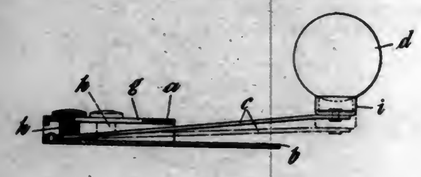
1. In combination with the wing of an aeroplane, a lifting attachment comprising a deflector plate underlying the wing and hinged at its front edge thereto, adapting it for angular adjustment about its hinge axis to and from the plane of the wing's under surface, the front edge of said plate forming part of and coinciding with the front edge of the wing; an overlying supplementary deflector plate hinged at its rear edge for angular adjustment to and from the plane of the upper surface of the wing, said wing having a through passage leading from and controlled by said upper deflector plate and opening below to the rear of the lower deflector plate; and means, under control of the aviator, for adjusting said deflector plates.

1,755,343. CHURN. THOMAS E. WILLIAMSON, Kirkland, Tex. Filed May 21, 1929. Serial No. 364,869. 3 Claims. (Cl. 259—51.)



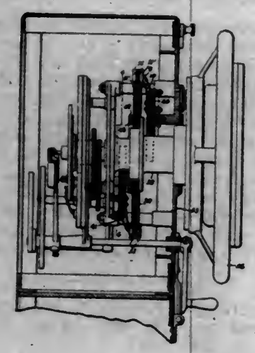
1. A churn of the character described comprising an annular container, a tubular member upstanding in said annular container and opening through the bottom thereof, and a series of radially positioned dasher members secured at one end to the inner periphery of said container and terminating at the opposite end at the tubular member.

1,755,344. GOLF TEE. THOMAS HENRY ACASTER, Old Trafford, Manchester, England. Filed Oct. 19, 1929, Serial No. 400,938, and in Great Britain Dec. 10, 1928. 1 Claim. (Cl. 273—33.)



In a golf tee comprising a weighted body with an upper member projecting laterally therefrom upon the end of which the golf ball is supported, such member being adjustable in height to suit the user's requirements, and a second or lower member projecting laterally to rest upon the ground, a sliding piece within a slot extending across the weighted body for regulating the height of the outer end of the upper projecting member, as set forth.

1,755,345. ELECTRIC COMPENSATOR. RALPH E. BATES, Medford, Mass., assignor to Submarine Signal Corporation, Boston, Mass., a Corporation of Delaware. Filed Apr. 18, 1927. Serial No. 184,753. 9 Claims. (Cl. 200—11.)



1. An electric compensator switch comprising an insulated disc mounted on a rotatable shaft, a plurality of conducting segments mounted radially on both sides about the disc, a second set of insulating discs mounted rigidly on a frame and positioned parallel and on both sides of said first disc, one of said discs being provided with radial brushes contacting with the conducting segments on one half of the first disc, the other of said discs being provided with radial brushes contacting with the opposite half of the second disc and means to rotate said shaft to vary the position of the conducting segments.

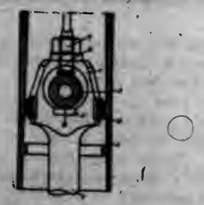
1,755,346. TOY. MORTON O. BLAND, Shelbyville, Ind. Filed Dec. 5, 1929. Serial No. 411,958. 3 Claims. (Cl. 46—14.)

2. A toy comprising a rotatable member consisting of outer flat plates and an inner corrugated plate, said outer plates closing the sides of the channels of said inner plate to provide parallel air passages open at their ends and arranged at opposite sides of the axial center of said member and having their ends arranged at opposite edges of said members, said member being provided at opposite



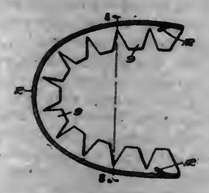
sides of its axial center with openings, and a looped flexible operating member having its sides extending through said openings.

1,755,347. ENGINE PROVIDED WITH A PISTON AND A CONNECTING ROD. JAN BRONS, Appingedam, Netherlands, assignor to Naamloose Vennootschap Kromhout Motoren Fabriek D. Goedkoop Jr., Amsterdam, Netherlands, and Johan Hendrik de Iongh, Hilligersberg, near Rotterdam, Netherlands. Filed Nov. 23, 1928, Serial No. 321,470, and in the Netherlands Dec. 8, 1927. 3 Claims. (Cl. 74—108.)



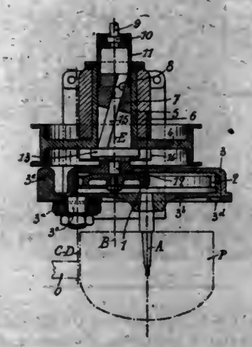
1. In an engine, a piston, a wrist pin therein, a connecting rod having a frame-like end, an adjustable rolling surface on said frame end contacting the pin, the frame end being formed at the outside partly as a revolving body, the axis of revolution of the revolving body coinciding, in the medial position of the connecting rod, with the line of contact of said rolling surface on the wrist pin, and means on the inner part of the piston adapted to guide said revolving body.

1,755,348. OVERSHOE SKID. JOSEPH S. CAPEN, Stoughton, Mass. Filed Feb. 18, 1927. Serial No. 169,859. 6 Claims. (Cl. 132—7.)



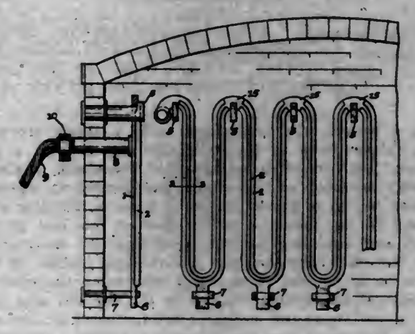
6. An open front resilient heel-edge-cover adapted to be slid onto the heel from the back and comprising an upstanding side covering and gripping portion to embrace and grip the side of the heel in the vicinity of the top, an attached heel-top-covering margin serrated to permit opening and closing of the cover to fit different heels and fastening means near the ends of the cover adapted to engage the breast of the heel to aid in holding the cover in position.

1,755,349. LATHE MECHANISM FOR OVAL TURNINGS. MARCEL CASSÉ, Essonnes, Seine-et-Oise, France. Filed Dec. 24, 1928, Serial No. 328,233, and in France Jan. 5, 1928. 17 Claims. (Cl. 82—18.)



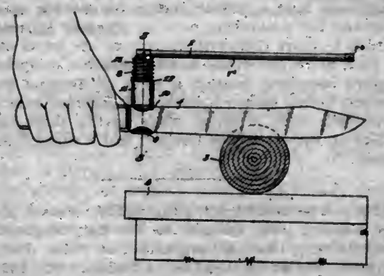
1. A lathe mechanism for oval turning comprising in combination a first frame, three parallel spindles rotatably mounted in said frame, equally spaced from one another and arranged in a common plane, power transmission means for connecting the central spindle with another spindle whereby said central spindle is caused to rotate at a speed equal to twice the speed of said other spindle, in the same direction, means for mounting a working member on said other spindle, a second frame, means for imparting to said central spindle a circular motion relatively to said second frame, means for reciprocating the third spindle along a substantially rectilinear path relatively to said second frame, in the plane of the mean position of said three spindles, and a working member secured to said second frame in said common plane, one of said working members being the piece of work and the other being the tool, and one of said frames being stationary, the other frame being thus imparted a combined reciprocating and oscillating motion relatively to the former.

1,755,350. ELECTRIC-FURNACE RESISTOR. FRANK A. FAHRENWALD, Cleveland Heights, Ohio. Filed May 19, 1924. Serial No. 714,289. 9 Claims. (Cl. 201—69.)



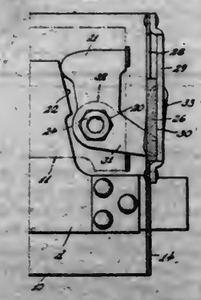
6. A cast resistor heating element of serpentine shape, having straight legs of T section and loops of flat section, the loops having a larger cross-sectional area than the legs.

1,755,351. ONION CUTTER. ALFRED FELARDO, New York, N. Y. Filed Apr. 28, 1928. Serial No. 273,727. 3 Claims. (Cl. 146—203.)



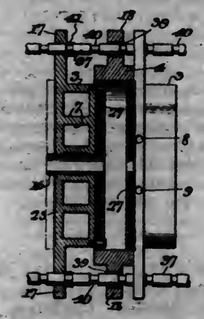
2. In an onion cutter, a bent sheet metal support adapted to be detachably secured to a handled cutting tool near the handle of the latter, and a transparent shield mounted on the support and overlying the blade of the cutting tool laterally and above its upper edge.

1,755,352. AUTOMOBILE DOOR LATCH. JOHN B. FREYSINGER, New Britain, Conn. Filed Aug. 6, 1926. Serial No. 127,665. 4 Claims. (Cl. 292—184.)



1. A latch of the character described having a pair of supports with a free space between them adapted to accommodate a window and a front plate at the forward end of said supports, a bolt carried by one of said supports, operating means in the other of said supports, a slide mounted for vertical movement on the outer face of said front plate, means for slidably retaining said slide on the outer face of said front plate, an operative connection between said bolt and slide, and an operative connection between said operating means and slide.

1,755,353. FILTER-POT PRESS. LESLIE S. HUBBERT, Edison, Ohio, assignor to The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed Nov. 29, 1927. Serial No. 236,517. 9 Claims. (Cl. 100—50.)



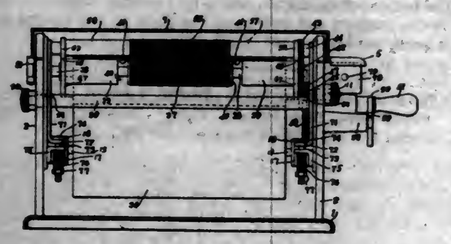
1. A filter pot press comprising press heads, a series of alternating hollow pots and plungers interposed be-

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tween said press heads, hydraulic means for moving the pots and plungers in one direction during the expressing operation, lugs on said pots and plungers, rods passing through said lugs, hydraulic means for moving said rods, and means for connecting pots or plungers separately to said rods to move therewith to remove the press cake.

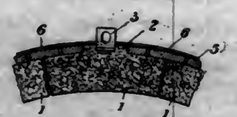
5. In a filter pot press, a filter member comprising in assembled operative relation a layer of filtering medium, two metal plates having openings of different size on one side of said layer, a metal plate having large tapering openings on the other side thereof, and a support for said elements.

1,755,354. AUTOGRAPHIC REGISTER. PHILIP A. JACKSON, Dayton, Ohio, assignor to The Egry Register Company, Dayton, Ohio, a Corporation of Ohio. Filed May 15, 1926. Serial No. 109,418. 4 Claims. (Cl. 282—21.)



1. In an autographic register, a lower driving roller, an upper driving roller, and shaft means movably mounted on the upper shaft, pins carried by said movably mounted means, yielding means connected to said movably mounted means for yieldingly resisting the movement of the pins relative to the upper shaft, and cams connected to said movably mounted means adapted to spread said rollers, means adapted to restrain the rotation of the cams and pins with the upper roller and a common actuating means for releasing said cam restraining means and for actuating said rollers.

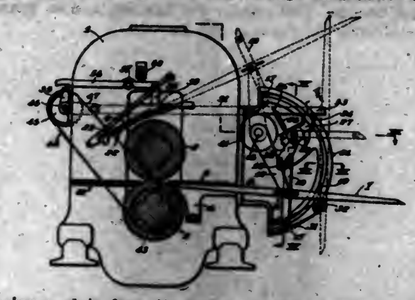
1,755,355. MANUFACTURE OF FRICTION BODIES. HANS KATTWINKEL, Coswig, Germany. Filed Oct. 14, 1926, Serial No. 141,590, and in Germany Dec. 14, 1925. 3 Claims. (Cl. 18—59.)



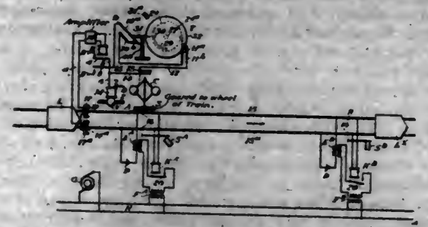
1. A method of the character described, comprising the steps of intimately mixing loose asbestos fibres with a solution of a phenolic condensation product, drying the mixture, pressing it into solid cakes, superposing a plurality of such cakes, pressing them together into the final shape of the body to be manufactured, and hardening the compressed mass under the influence of heat.

1,755,356. PLATE CATCHER. FRANK R. KRAUSE and RALPH C. STIEFEL, Ellwood City, Pa. Filed Feb. 26, 1929. Serial No. 342,695. 12 Claims. (Cl. 80—47.)

1. A plate transfer mechanism, comprising a skeleton receiving table, a single transfer rack pivotally supported intermediate of its ends and movable through said table, means for elevating said rack through said table for removing a plate from it, and means for lowering the rack and simultaneously turning it end-for-end to bring one of its ends upwardly beneath said table.

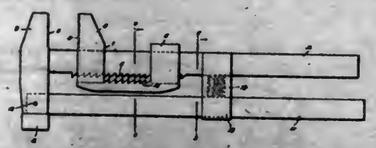


1,755,357. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. RONALD A. MCCANN, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 702,286, filed Mar. 27, 1924. This application filed Oct. 4, 1924. Serial No. 741,763. 19 Claims. (Cl. 246—63.)



1. Railway traffic controlling apparatus comprising automatic mechanism carried on a train and operating under unsafe traffic conditions to apply the brakes, and means located entirely on the train for preventing an automatic brake application if the engineer takes suitable periodic action.

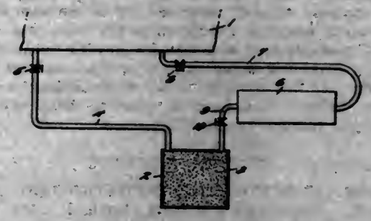
1,755,358. WRENCH. WARD MONTENEY, Castle Rock, Wash. Filed June 12, 1928. Serial No. 284,822. 1 Claim. (Cl. 81—138.)



In a wrench, the combination with a shank provided with ratchet teeth on the inner side edge thereof, a stationary jaw formed on one edge of the shank, a sleeve slidably mounted on the shank and having an opening of such size as to permit the same to move laterally with respect to the shank, a jaw formed on one end of the sleeve and extending laterally therefrom for cooperation with the stationary jaw, the intermediate portion of the sleeve being cut out at its outer side, teeth provided on the wall of the opening formed by the removal of a portion of the sleeve, an elongated lever pivoted at one end to the stationary jaw for disposition adjacent the inner side edge of the sleeve and adapted to engage the same to move the sleeve laterally whereby the teeth of the sleeve are brought into locking engagement with the teeth on the shank to secure the movable jaw against sliding movement.

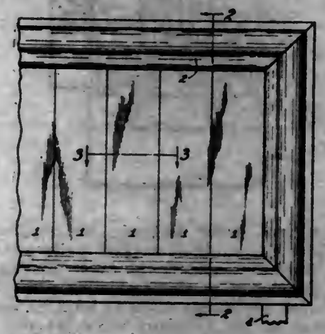
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1,755,359. RESERVE AND CONSERVATION OF INFLATANTS. HERBERT B. MOSES, Washington, D. C. Filed May 29, 1926. Serial No. 112,736. 10 Claims. (Cl. 244—3.)



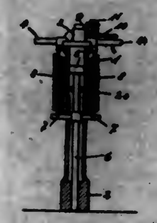
10. An inflatable device adapted to be inflated by a gas, and highly adsorbent material within said device adapted to contact with and adsorb the inflating gas.

1,755,360. SECTIONAL SIGNBOARD. ROGER W. OLMSTED, San Francisco, Calif., assignor to Foster & Kleiser Company, San Francisco, Calif., a Corporation of Nevada. Filed Oct. 22, 1927. Serial No. 227,983. 4 Claims. (Cl. 40—125.)



1. A sectional sign board comprising a plurality of sheet metal panels adapted to abut edgewise to form the body of the sign board, said panels each provided with rearwardly projecting marginal devices, and means engaging said devices and for drawing same tightly together comprising a yoke adapted to engage adjacent devices of adjacent panels and wedge means for forcing said devices together within said yoke.

1,755,361. MECHANICAL HAMMER. ALBERT PFLÜGER and KONRAD HAAGE, Esslingen-on-the-Neckar, Germany. Filed Sept. 24, 1927, Serial No. 221,726, and in Germany July 15, 1926. 5 Claims. (Cl. 123—7.)

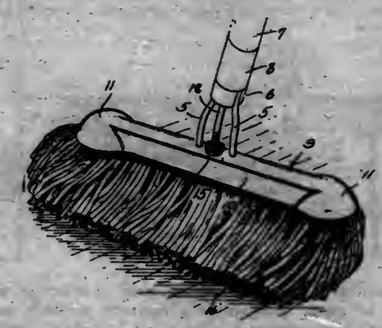


1. A mechanical percussive tool comprising a cylinder, a tup on said cylinder, a piston in said cylinder, a piston rod connected with said piston, means for supplying combustible mixture to said cylinder, and means for igniting the mixture, the length of said cylinder, measured from its inner end to the striking face of said tup, and the length of said piston and piston rod, measured from the inner face of said piston to the end of said rod, being so determined that their difference is equal to the suction stroke of said piston.

1,755,362. METHOD OF MAKING SODIUM SALICYLATES. MARK E. PUTNAM, Midland, Mich, assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Apr. 6, 1923. Serial No. 630,396. 3 Claims. (Cl. 260—111.)

1. In a process of making substantially pure sodium salicylate from a solution thereof containing impurities, the steps which consist in cooling such solution to a temperature under 15° C., such solution being made up too dilute to form anhydrous crystals at such temperature, seeding such cooled solution with crystals of sodium salicylate hexahydrate, thereby causing crystallization of a large proportion of a dissolved salt in like form only, separating such crystals from the mother liquor with its impurities, and then washing and drying such crystals, whereby without further repurification a white anhydrous salt is produced free from tint of color and capable of being dissolved to a clear water-white solution.

1,755,363. MOP HANDLE. JOSEPH S. ROUX, Manchester, N. H. Filed July 2, 1929. Serial No. 375,891. 2 Claims. (Cl. 15—229.)

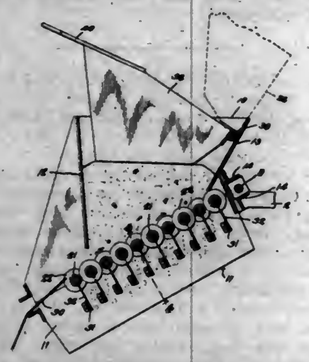


2. In a device of the class described, a transverse member crossed upon itself near to its ends and spread to form enlarged, loop-shaped eyes, the constituent material of the eyes being prolonged inwardly with respect to the eyes, in approximate parallelism to the transverse member to define arms, the arms terminating in fingers arranged approximately at right angles to the arms and to the planes in which the eyes are located, a handle on which the fingers are mounted, a hollow trough-shaped jaw slidable on the fingers and enclosing the transverse member and the arms, the jaw being provided at its ends with enlarged cup-shaped elements receiving the eyes, and a head engaged between the transverse member and the jaw, the head being spread at its ends by the eyes and being held spread at its ends by the cup-shaped elements, and means for producing relative movement between the jaw and the transverse member to effect a compression of the head.

1,755,364. SEPARATOR. ENOS S. ROYER, Wilkes-Barre, Pa., assignor of one-half to R. J. O'Donnell, Wilkes-Barre, Pa. Filed Mar. 24, 1928. Serial No. 264,528. 9 Claims. (Cl. 209—104.)

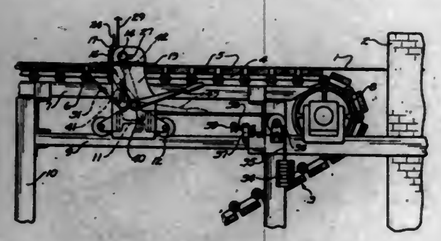
1. A separator including a container for holding material to be separated, a pivoted support therefor, a resilient

support therefor, a bottom for the container including parallel series of disks disposed in lapped and staggered relation to provide outlet orifices therebetween, and means



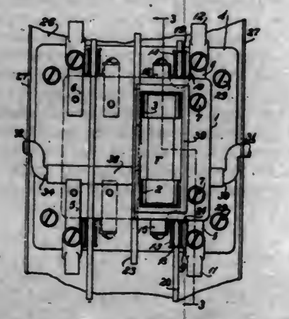
supported with the container for simultaneously rotating all of the disks in one direction and vibrating the container.

1,755,365. CUTTING APPARATUS FOR SHEET GLASS. CLIFFORD A. ROWLEY, Chicago, Ill., assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Original application filed May 19, 1924, Serial No. 714,417. Divided and this application filed Apr. 1, 1929. Serial No. 351,499. 10 Claims. (Cl. 33—32.)



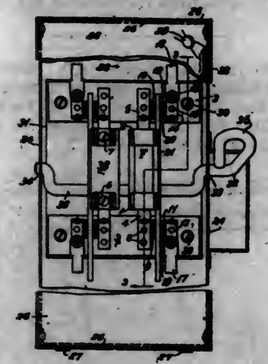
1. An apparatus for transversely scoring a moving sheet of glass, comprising a carriage movable parallel with the movement of the sheet and including a guide bar extending transversely above said sheet, and a cutter carrier having a slidable and rotatable fit on said guide bar.

1,755,366. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Mar. 9, 1927. Serial No. 173,979. 15 Claims. (Cl. 200—114.)



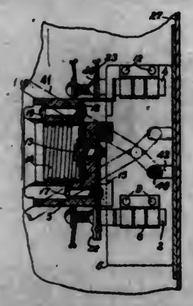
1. In an electric switch, the combination of a rear support, an insulating base mounted at the front of the support and in normally fixed spaced relationship therewith, two stationary switch contacts located behind the plane of a rearward facing surface of the base and having parallel opposite contact faces substantially perpendicular to the said surface, one of the said contacts being mounted upon the rear support independently of the base and the other being mounted directly upon the base, and a rectilinearly movable switching member movable parallely with the said rearward facing surface of the base and having opposite parallel contact faces which engage and disengage the two stationary contacts to make and break the circuit through the switch.

1,755,367. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed Mar. 10, 1927, Serial No. 174,350. Renewed Dec. 7, 1929. 31 Claims. (Cl. 200—114.)



1. In a fused switch appliance, the combination of a rear support, a plurality of supporting elements extending forward from the support, two fuse receiving contacts directly mounted upon and contacting with two of the said elements respectively at the forward portions thereof, two pairs of opposed stationary switch contacts located at least in part behind a transverse plane through the rear parts of the fuse contacts, a rectilinearly movable switching member comprising two conducting elements insulated from each other and normally engaging the said stationary switch contacts of the corresponding pairs to establish a circuit through the appliance, and means for rectilinearly moving the switching member approximately parallelly with the face of the rear support.

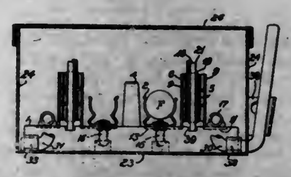
1,755,368. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE, JOSEPH SACHS, West Hartford, Conn. Filed July 7, 1927, Serial No. 204,078. Renewed Dec. 7, 1929. 7 Claims. (Cl. 200—114.)



1. In an electric switch, the combination of an insulating base, a pair of opposed stationary switch contacts

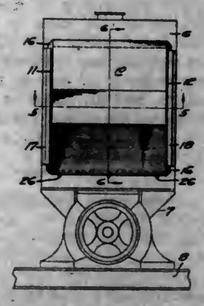
carried by the base, means for connecting the said contacts in an electric circuit, an insulating element having opposite flat faces and movable in the planes of the said faces between the said stationary contacts, a movable conducting contact means carried by the said insulating element, the said means comprising two resilient portions having contact surfaces located respectively at opposite sides of the insulating element and normally engaging the respective stationary switch contacts, and means for moving the said insulating element as aforesaid to substantially simultaneously disengage the said movable contact means from the stationary switch contacts, the said insulating element extending between the said stationary contacts in all positions so as to constitute an insulating barrier between them.

1,755,369. ELECTRIC-CIRCUIT-CONTROLLING APPLIANCE. JOSEPH SACHS, West Hartford, Conn. Filed July 18, 1927, Serial No. 206,782. Renewed Dec. 7, 1929. 11 Claims. (Cl. 200—114.)



1. In a fused switch appliance, the combination of an insulating base, two fuse receiving contacts directly mounted upon the base at the front thereof, two pairs of opposed stationary switch contacts carried by the base at the front thereof and at one side of the fuse contacts, conducting means for electrically connecting one switch contact of each pair with its corresponding fuse contact, a rectilinearly movable switching member comprising an insulating element and two conducting elements carried by the insulating element and normally engaging the said switch contacts of the corresponding pairs to establish a circuit through the appliance, means normally engaging the insulating element of the said member to prevent forward movement thereof, and means for rectilinearly moving the switching member approximately parallelly with the front face of the base to engage the conducting elements thereof with the stationary switch contacts or to disengage them therefrom.

1,755,370. RADIATOR SHIELD. HORATIO W. SMITH, Stockton, Calif., assignor to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California. Filed May 28, 1929. Serial No. 366,587. 7 Claims. (Cl. 298—54.)



5. A radiator shield comprising a multiplanar structure composed entirely of mesh material.

1,755,371. COIN-CONTROLLED CLOCK. JACOB A. SMITH, River Forest, Ill. Filed Apr. 27, 1925. Serial No. 26,018. 8 Claims. (Cl. 194—69.)



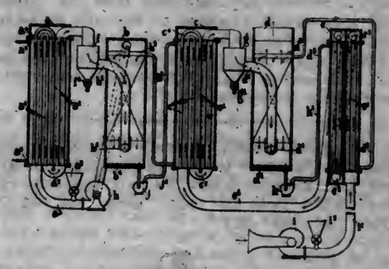
4. In a coin controlled clock, a slidably mounted coin receiver, and means for preventing winding of a clock, said means being arranged to be operated by a coin in said receiver while the receiver is slid through a distance equal to the diameter of the coin.

1,755,372. FLAG HOLDER. STEPHEN SMITH, San Francisco, Calif. Filed Jan. 3, 1928. Serial No. 244,820. 4 Claims. (Cl. 116—173.)



1. A flag holder comprising a staff, a retainer formed of a single wire frictionally secured at one end to said staff and diverging longitudinally therefrom, means on said staff for receiving the other end of said retainer, and means struck from the retainer for preventing movement of a flag along said retainer when the retainer is in engagement with said staff.

1,755,373. DRYING. OLOF SÖDERLUND and THOMAS GRAM, London, England, assignors to Techno-Chemical Laboratories, Limited, London, England. Filed Apr. 23, 1928, Serial No. 272,264, and in Great Britain Apr. 23, 1927. 9 Claims. (Cl. 34—24.)

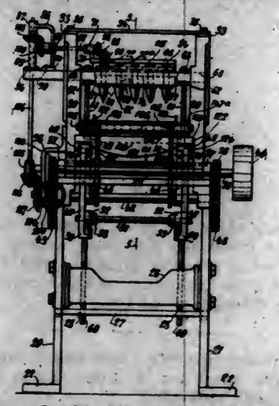


1. A method of treating moist material of at least one small dimension comprising bringing said material carried in suspension in a gaseous fluid current across heat-transmitting surfaces of attenuated conduits whereby moisture is evaporated from the material, separating the material from the current, extracting from the current by direct contact with a divided liquid the latent heat of the evaporation and employing the heat thus attained by the liquid to effect drying of other moist material.

1,755,374. MOLDING MACHINE. HERMAN SONNENBERG, Middle Village, N. Y. Filed Aug. 10, 1927. Serial No. 211,996. 5 Claims. (Cl. 25—6.)

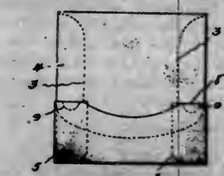
1. In a molding machine the combination of a mold having a plurality of cavities, a crosshead guided in the machine, means to reciprocate the crosshead, a stripper plate detachably supported on the mold, and a plurality

of plungers depending from the crosshead, each plunger having a flange at its top end, each of said flanges having a circumferential recess in its bottom face, each of said



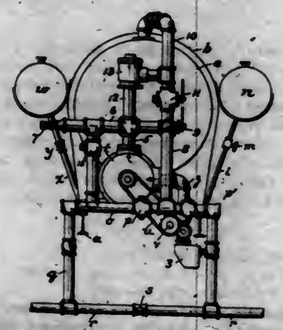
plungers disposed with its longitudinal axis coincident with the longitudinal axis of one of the cavities in the mold.

1,755,375. FOLDER OR CONTAINER. ARNOLD J. TANNER, North Haven, Conn., assignor of one-half to Theodore H. Low, New Haven, Conn. Filed May 28, 1928. Serial No. 281,059. 3 Claims. (Cl. 229—16.)



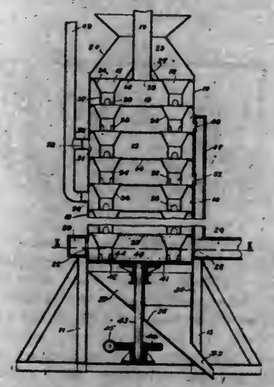
1. A container of the class described comprising a body section; inwardly folding flanges at the sides of said body section extending substantially along the full length thereof; a covering flap extending from the bottom end of said body section arranged to fold and to be secured on said body section to form a separate pocket lying over said flanges and a closing flap extending from the top end of said body section adapted to fold and slide into said pocket to close the container.

1,755,376. ROAD OILER. WATSON T. THOMPSON, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed June 16, 1923. Serial No. 645,719. 1 Claim. (Cl. 299—35.)



A road oiler having a tank for the oil, a pump having an inlet and an outlet, a connection from the bottom of the tank to the pump inlet, a header connected to the pump outlet, a distributor for the oil, a connection between the distributor and the header, a connection between the header and the tank, a conduit leading from said header back to the pump inlet, a valve in each connection whereby the flow through said connections may be controlled without affecting the flow passage through other connections, and means for delivering cleansing fluid to the pump inlet.

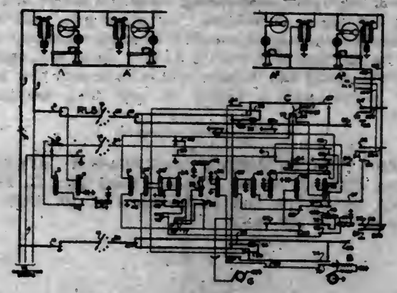
1,755,377. DRYING OF ROAD-MAKING AGGREGATES AND OTHER BROKEN OR GRANULAR MATERIALS. JOHN FREDERICK WAKE, Darlington, England. Filed Sept. 21, 1925, Serial No. 57,667, and in Great Britain Sept. 23, 1924. 4 Claims. (Cl. 34—34.)



1. For drying road-making aggregates and other broken or granular materials on the counter-current principle, apparatus comprising a casing; a plurality of open-ended perforated notched short tubes or pipes situated within the casing in vertical and horizontal spaced relation to each other and to the casing; transverse imperforate plates fixed at intervals within the casing positioning the tubes or pipes, serving as a means to control the direction of the circulation of air by preventing passage except by the notches, and partitioning the casing into compartments, wherethrough the tubes or pipes pass, means at the top of the casing for receiving the material to be dried and delivering it to the tubes or pipes; means at the bottom of the casing for receiving the material from the tubes or pipes and discharging it; means establishing communication between one or more of the casing-compartments and a source of supply of a drying medium or agent; and means establishing communication between the remaining compartment, or one or more of the remaining compartments, and an outlet or outlets for the spent drying medium or agent and the products of the drying operation.

1,755,378. AUTOMATIC TELEPHONE SYSTEM. BERNARD D. WILLIS, Oak Park, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 18, 1926, Serial No. 142,267. Renewed July 12, 1929. 32 Claims. (Cl. 179—17.)

1. In a telephone system, a connector switch, a trunk line terminating in said switch, a calling line, means for connecting said calling line to said switch via said trunk line, a second line, impulsing contacts at a station on said calling line, and means responsive to the actuation of said contacts for then operating said switch either to

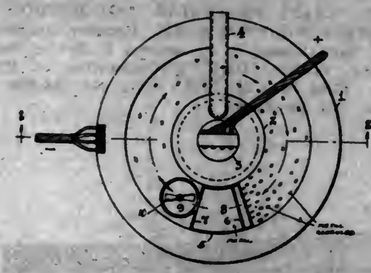


connect with said second line and signal a subscriber thereon or to signal another subscriber on said calling line via said trunk line.

1,755,379. PROCESS OF CONCENTRATING LATEX. HENRY W. BANKS, 3d, Noroton, Conn., assignor, by mesne assignments, to United States Rubber Company, a Corporation of New Jersey. Filed Nov. 28, 1924. Serial No. 752,813. 1 Claim. (Cl. 18—50.)

A process for treating aqueous dispersions of rubber which consists in repeatedly increasing the state of aggregation of the rubber particles therein and alternately removing water-soluble material therefrom.

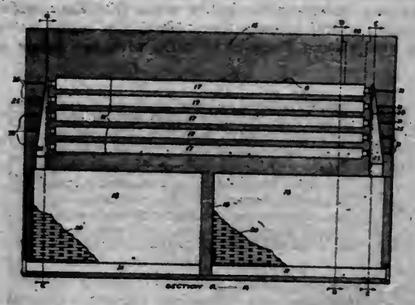
1,755,380. METHOD AND MEANS FOR ELECTROLYTIC PRODUCTION OF LIGHT METALS. EDWIN O. BARSTOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Nov. 9, 1925. Serial No. 67,780. 12 Claims. (Cl. 204—19.)



2. In a method of electrolyzing a fused electrolyte for the production of a metal which will float thereon, the step which comprises mechanically circulating the surface portion of said electrolyte through a trap adapted to arrest metal floating thereon.

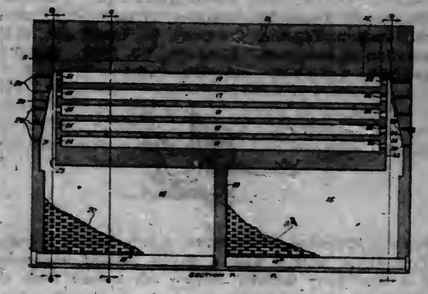
1,755,381. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 16, 1921, Serial No. 470,197. Renewed Jan. 24, 1930. 11 Claims. (Cl. 202—146.)

1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such coking chambers and respectively constituted of two series of horizontal combustion flues; reversible crosswise extending regenerators parallel with the coking chambers and the heating walls, such regenerators being disposed into two series located respectively on opposite sides of the battery, one series operating for inflow while the other series operates for outflow, the regenerators of each series being disposed into groups of three regenerators with one inflow operating regenerator of each group supplying gas and the others supplying air, the gas regen-



erator lying between the respective air regenerators; and duct means connecting the groups of such regenerators of each series respectively with the opposite ends of both series of horizontal combustion flues of said heating walls; substantially as specified.

1,755,382. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 16, 1921. Serial No. 470,198. 18 Claims. (Cl. 202—146.)

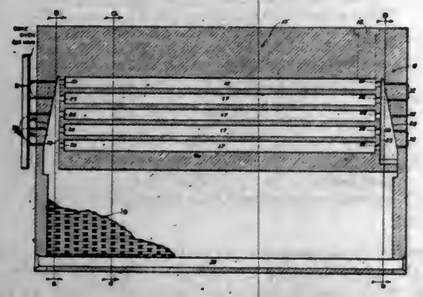


1. In a cooking retort oven, in combination: a plurality of parallel horizontally elongated coking chambers; heating walls contiguous to said coking chambers and respectively constituted of horizontal combustion flues; reversible crosswise extending regenerators parallel with the coking chambers and the heating walls, said regenerators being disposed into two series located on opposite sides of the battery respectively, one series operating for inflow while the other series operates for outflow, the regenerators of each series being grouped in pairs with one inflow operating regenerator of each pair for supplying gas and the other for supplying air; and the pairs of said two series of regenerators having communications with the opposite ends of the horizontal combustion flues, respectively, of said heating walls, each of said communications consisting of a substantially straight duct; substantially as specified.

1,755,383. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 16, 1921. Serial No. 470,199. 21 Claims. (Cl. 202—146.)

1. In a coking retort oven, in combination: a plurality of coking chambers; heating walls contiguous to such coking chambers and respectively constituted of horizontal

combustion flues; reversible crosswise extending regenerators parallel with the coking chambers and the heating walls such regenerators respectively extending from side to side of the retort oven and being disposed into two groups alternating with each other, the regenerators of one group operating for inflow while the regenerators of the other group operate for outflow, the regenerators of each group being disposed in pairs with one inflow oper-



ating regenerator of each pair supplying gas and the other supplying air; and duct means connecting the pairs of such regenerators of both groups respectively with one end of the horizontal combustion flues of the heating walls on one side of such regenerators and with the opposite end of the horizontal combustion flues located on the opposite side of such regenerators; substantially as specified.

1,755,384. SHOW-CASE REFRIGERATOR. FRANCIS C. BECKER, St. Louis, Mo., assignor, by mesne assignments, to Hussmann-Ligonier Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 20, 1928. Serial No. 248,049. 4 Claims. (Cl. 312—126.)



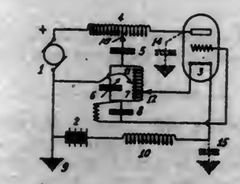
2. In a showcase refrigerator, a tray having a bottom rim of angle section with a flange thereof unstanding, and a wire body secured thereto but spaced from said flange at the side of the tray, in order to permit cooperation of said flange, with a stop on the show case.

1,755,385. COMBINATION ELECTRIC-LIGHTING APPARATUS. FORD E. BEIDLER, New York, N. Y., assignor of one-third to Samuel Alsop, one-third to Charles E. Crowley, and one-third to Frank E. Chester, New York, N. Y. Filed May 31, 1928. Serial No. 281,714. 11 Claims. (Cl. 240—10.5.)



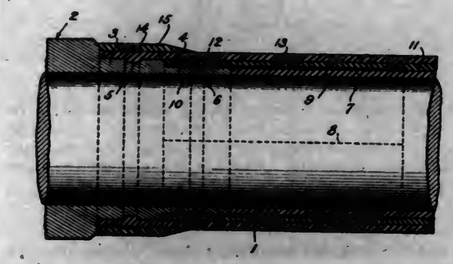
7. An electric lamp including base, a contact member carried by said base included in a circuit connected to a suitable source of electricity, a casing detachably mounted on said base, a lamp carried by said casing, and included in a normally closed circuit connected to another source of electricity, said casing, lamp and source of electricity forming a portable self contained unit, said contact member and casing coacting whereby when the casing is on the base said contact member opens said second mentioned circuit and includes said lamp in said first mentioned circuit and a switch in said first mentioned circuit.

1,755,386. VACUUM-TUBE GENERATOR SYSTEM. HENRI CHIREIX, Paris, France. Filed Apr. 5, 1926, Serial No. 99,740, and in France Aug. 10, 1925. 5 Claims. (Cl. 250—36.)



1. A circuit arrangement comprising a vacuum tube oscillator, a source of energy for supplying plate voltage thereto having one of its terminals connected to the plate through an inductance, an impedance having one of its terminals connected to said inductance by a variable contact and its other terminal connected to the grid of said oscillator and a variable contact connected to the filament of said oscillator and contacting with said impedance.

1,755,387. SHAFT PROTECTOR AND METHOD OF MANUFACTURING THE SAME. HERBERT CHRISTOPHERSEN, East Orange, N. J., assignor to Revere Rubber Company, Chelsea, Mass., a Corporation of Rhode Island. Filed June 26, 1928. Serial No. 288,890. 12 Claims. (Cl. 18—59.)



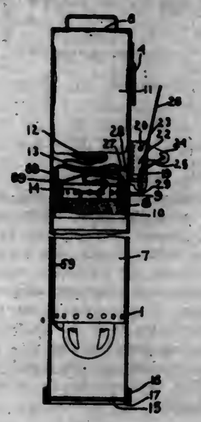
1. A shaft assembly including, in combination, a shaft, a bearing member thereon, a sleeve sealed to one end of the bearing member and extending beyond said end along the shaft, said sleeve having an inside diameter larger than the shaft and being disposed substantially concentric to the shaft, and vulcanized rubber composition surrounding said sleeve, the shaft, and the ends at least of said bearing member.

1,755,388. AERIAL FLARE. GEORGE J. J. CLARK, Whitman, and ERNEST B. JONES, South Weymouth, Mass., assignors to National Fireworks, Inc., West Hanover, Mass., a Corporation of Massachusetts. Filed Aug. 17, 1927. Serial No. 213,676. 16 Claims. (Cl. 102—24.)



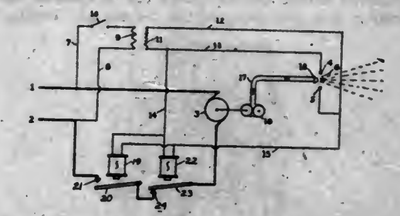
1. An aerial flare comprising a shell containing pyrotechnical material and having a releasable cap, an igniting device carried by said cap, and means for actuating said igniting device and operable thereafter to remove and support said cap.

1,755,389. AERIAL FLARE. GEORGE J. J. CLARK, Whitman, and ERNEST B. JONES, South Weymouth, Mass., assignors to National Fireworks, Inc., West Hanover, Mass., a Corporation of Massachusetts. Filed Dec. 5, 1928. Serial No. 323,859. 10 Claims. (Cl. 102—24.)



1. An aerial flare construction for airships comprising a flare-supporting tube, means for supporting said tube within the body of the air-ship with the lower open end thereof exposed therethrough, a flare within said tube, releasable locking means for supporting said flare, and means substantially hermetically closing the lower end of said tube capable of removal by said flare upon its release without substantially obstructing the dropping of the flare.

1,755,390. ELECTRICAL SPARK CONTROL FOR BURNERS. FRANK FISCHER, Rye, N. Y., and ARNOLD F. VAN PELT, Interlaken, N. J., assignors to Grant Oil Burner Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 6, 1926. Serial No. 120,855. 2 Claims. (Cl. 158—28.)



1. In a burner ignition device having a controlled circuit, a high voltage controlling circuit energized from a substantially constant potential, the controlling circuit having a pair of spaced electrodes forming a spark gap for igniting the burner, relay means for closing the controlled circuit when an ignition spark is present at the spark-gap and opening the controlled circuit when said ignition spark is absent, and a shunt circuit around the spark-gap for operating the relay means.

1,755,391. PROCESS OF PRODUCING A PHOSPHATE COATING ON METAL. MATTHEW GREEN and VAN M. DARSEY, Detroit, Mich., assignors to Parker Rust-Proof Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 29, 1929. Serial No. 359,166. 2 Claims. (Cl. 148—6.5.)

1. A method of producing a phosphate coating on metal articles which comprises providing a preliminary bath and a main bath large in proportion to the preliminary bath, first treating articles for a short time in the preliminary bath and thereafter treating said articles in the main bath for as long as is necessary to produce the desired coating, completely renewing the preliminary bath at frequent intervals, and replenishing the main bath from time to time, regardless of its aging.

1,755,392. SECRET-DOOR LATCH. CARL J. HAGSTROM and CARL G. HAGSTROM, Glen Cove, N. Y. Filed Dec. 28, 1927. Serial No. 242,047. 8 Claims. (Cl. 292—99.)

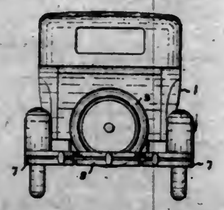


1. A door latch comprising a casing, a strike, a catch carried by the casing, said catch being movable by the strike on entering the same to engage the strike, a plunger in the casing projecting therefrom, and means operated by the plunger to move the catch to release the same from engagement with the strike, the plunger being actuated on moving the door closely to the jamb, said means retaining the catch in released position while the plunger moves outward of the casing to normal position.

1,755,393. VEHICLE BUMPER. ARDEN HANCOCK, Houston, Tex. Filed Jan. 15, 1929. Serial No. 332,005. 1 Claim. (Cl. 293—55.)

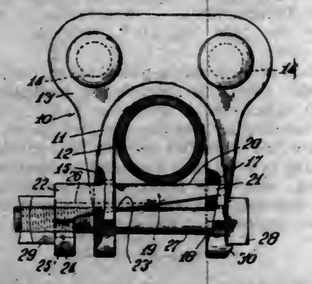
A rear end protector for motor vehicles designed to protect the rear fenders and spare tire, carried by the

rear end of the vehicle, and comprising side bumpers spaced apart and arranged in the rear fenders of the vehicle, each side bumper comprising a bar attached to the vehicle chassis and extending rearwardly, the rear end of each bar being outwardly curved, bumper arms whose inner ends are bolted to the corresponding bars, said arms being curved around the outwardly curved ends of the corresponding bars and being bolted thereto and having free



outer ends, a U-shaped intermediate bumper, space blocks between the ends of the intermediate bumper and the side bumpers and securing bolts passing through the respective ends of said intermediate bumper and through the corresponding blocks and side bumpers and forming common securing means for securing said bars and the adjacent ends of said bumper arms and intermediate bumper together.

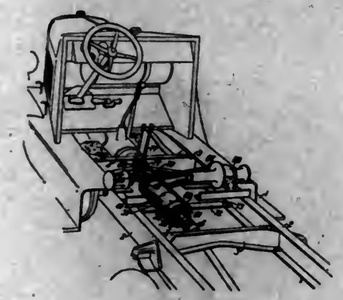
1,755,394. PIPE-ANCHORING MEANS. VICTOR H. HARBERT, Chicago, Ill. Filed Feb. 24, 1928. Serial No. 256,514. 1 Claim. (Cl. 248—31.)



Pipe anchoring means comprising a wide U-shape member adapted to receive a pipe, one end of the member having an apertured flange extending upwardly from the closed side of the member, one side of the U-shape member having a transverse slot socketed intermediate of its ends, while the other side of the member is provided with a transverse slot aligned with the slot in the first mentioned side and with a bolt receiving opening aligned with the socketed portion of the slot in the first mentioned side, a wide wedge member having a flat upper face and a depending apertured lobe at the large end thereof, the lower tapered side of the wedge member adjacent the large end thereof being channeled in alignment with the aperture in said lobe, and a clamping bolt adapted to pass through the apertured lobe, said channel, through the socketed portion of the first mentioned slot and through the bolt receiving opening of the second mentioned side of said U-shape member whereby fastening of the bolt will induce a drawing action on the wedge member in proximity to its longitudinal axis transversely of the U-shape member and force the flat face of the wedge member into firm relation with the pipe.

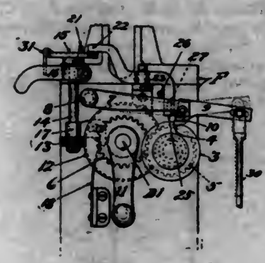
1,755,395. TRANSMISSION POWER TAKE-OFF. JOHN R. HICKS, Tulsa, Okla., assignor of three-fourths to Tidal Oil Company, Tulsa, Okla., a Corporation of Oklahoma. Filed Sept. 14, 1928. Serial No. 306,012. 3 Claims. (Cl. 74—7.)

1. In a device of the character described a housing, shaft sections journaled in and projecting from the housing, a driving member rotatably mounted on the projecting end of a shaft section and having clutch jaws, means for selectively effecting an integral or independent relation of the shaft sections, a mating clutch member keyed



against rotation but slidably mounted on the shaft section adjacent the driving member, and means for engaging or disengaging the driving member and mating clutch member.

1,755,396. ADJUSTABLE STOP MECHANISM FOR YARN-MEASURING SPOOL WINDERS. LOUIS H. HILDEBRANDT, Amsterdam, N. Y., assignor to Collins Loom Works Inc., Amsterdam, N. Y., a Corporation of New York. Filed Aug. 25, 1928. Serial No. 302,129. 5 Claims. (Cl. 33—132.)

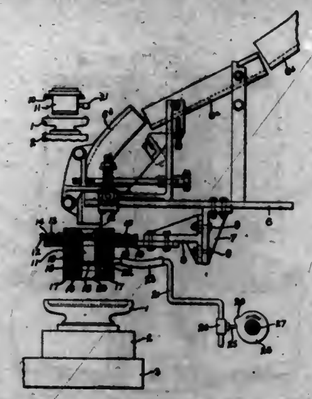


4. An adjustable stop mechanism for a spool winding device, which includes a measuring roll adapted to be rotated by contact with the yarn being wound, a support, a rotatable disk, means for rotating said disk incident to the rotation of said roll, an arm pivoted on said support, adjustable means for normally holding said arm in an inactive position and releasing said arm after a predetermined amount of yarn has been unwound, whereupon said arm gravitates to an active position, and means forming a connection between the arm and the starting and stopping mechanism of the spool winder, and actuated by said disk incident to the release of said arm to stop said mechanism.

1,755,397. METHOD AND APPARATUS FOR RETARDING FREELY-FALLING MOLD CHARGES. ALFRED R. HUNTER, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 7, 1928. Serial No. 324,384. 16 Claims. (Cl. 49—14.)

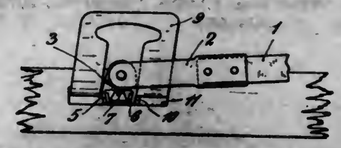
8. Apparatus for guiding charges of molten glass into a mold comprising a guiding member having a substantially vertical opening therethrough, means for directing

a charge of molten glass downwardly through said opening, and means for creating an upwardly moving current



of a gaseous medium through said opening for slowing up a freely falling charge of molten glass passing through said opening.

1,755,398. SKI FASTENING. JOHANNES OLSEN JORDELL, Oslo, Norway. Filed Oct. 15, 1928, Serial No. 312,641, and in Norway Oct. 19, 1927. 4 Claims. (Cl. 203—134.)



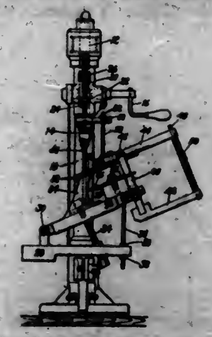
1. A ski-fastener of the character described, including in combination with a ski having a transverse slot therein and a back-fastening strap, of interchangeable and lockable members slidably and removably mounted in said slot and each having one of the ends of the back-fastening strap secured thereto.

1,755,399. METHOD OF PRODUCING ARTIFICIAL MARBLE. JOHANN KNEBEL, Mahr. Schomberg, Czechoslovakia. Filed Sept. 25, 1928, Serial No. 308,339, and in Czechoslovakia May 21, 1928. 1 Claim. (Cl. 91—70.)

A method of producing artificial marble, consisting in applying a glazing mass consisting of water, potassium carbonate, soda water glass, potassium sulphate, calcium phosphate and a suitable coloring matter to the surface of a slab of material which can be ground, boiling the said slab with the glazing mass in a bath composed of water, calcium carbonate, potassium chloride, magnesium chloride, calcium chloride, nitric acid, acetic acid, sulphuric acid, sodium chloride, magnesium sulphate and citric acid, at a temperature of 100°–110° C. for about three hours, thereupon placing the said slab in a cold bath consisting of water, caustic potash, soda lye and alum for about three hours, then rinsing with water, drying, grinding and polishing, as and for the purpose set forth.

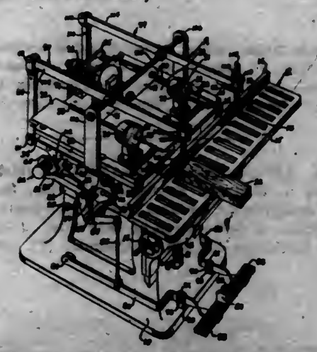
1,755,400. WOOD-HEEL-MAKING MACHINE. RALPH F. KNIGHT, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1928. Serial No. 294,007. 4 Claims. (Cl. 144—93.)

1. In a machine for making wood heels, a vertically reciprocable tool, a table under the tool adjustable about a horisontal axis to bring the shank of a Louis heel on the table into a substantially vertical position, gages for orienting the heel and positioning its shank under the tool, a resilient clamping means arranged to contact with the upper surface of the heel, and a lost motion connection



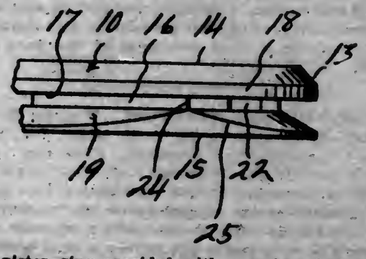
between the tool and the clamping means whereby the lifting of the tool from the heel renders the clamping means inoperative.

1,755,401. AUTOMATIC BORING MACHINE. JOHN W. KOEHL, CARL PALKOWSKI, and STEFAN WAGNER, Los Angeles, Calif. Filed June 28, 1928. Serial No. 287,660. 8 Claims. (Cl. 144—110.)



1. A drilling machine including a base, a bed on said base, a plurality of slides mounted on said bed for horisontal reciprocating movement towards and from said work table, a drill head on each of said slides, a drill chuck in each head, means in each of said heads whereby to drive said drill chuck, said means including a shaft for each head, a motor including an armature shaft, means connecting each of said first mentioned shafts with said armature shaft and means operated by said motor to move said slides towards and from a piece of work.

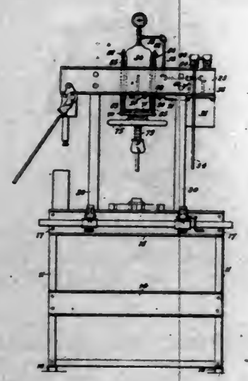
1,755,402. PISTON RING. JOHN MAGEE, Detroit, Mich. Filed Jan. 9, 1929. Serial No. 331,272. 9 Claims. (Cl. 74—109.)



1. A piston ring provided with a series of circumferentially spaced slots overlapping at the outer wall of the ring to form a continuous circumferential groove.

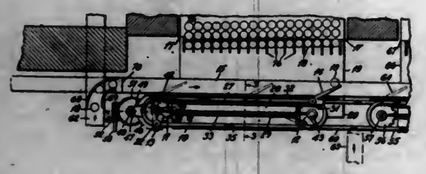
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1,755,403. HYDRAULIC PRESS. ROBERT E. MANLEY, York, Pa., assignor to Manley Manufacturing Company, York, Pa., a Corporation of Delaware. Filed Jan. 5, 1926. Serial No. 79,434. 5 Claims. (Cl. 138—17.)



1. In a hydraulic press, a ram cylinder, a ram therein, a screw within the ram, a collar rotatably mounted on the ram and operatively connected to said screw to advance and retract the screw with respect to the ram.

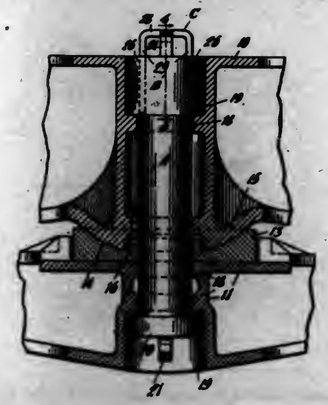
1,755,404. APPARATUS FOR HANDLING GLASSWARE. WILBUR S. MAYERS, Fairmont, W. Va., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Dec. 30, 1922. Serial No. 609,860. 7 Claims. (Cl. 198—31.)



1. In glassware handling apparatus, the combination with a movable carrier for the ware of a member movable in a closed substantially horizontal path adjacent to said carrier, the movement of said member being differential to that of said carrier, a deflector mounted on said member, and means for moving said deflector on said member into and out of the path of movement of the ware on said carrier.

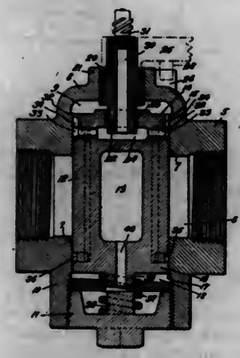
1,755,405. CAR CONSTRUCTION. WILLIAM H. MINER, Chasy, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 14, 1928. Serial No. 292,892. 5 Claims. (Cl. 105—200.)

1. In car construction, the combination with body and truck bolsters having aligned center pin receiving openings, each bolster being provided with a shoulder adjacent its opening; of a center pin having a fixed head at one end, engaging one of said shoulders; a detachable head at the other end of said pin, engaging the shoulder of the other bolster; interengaging means on said pin and detachable head for securing the head to the pin upon relative rotation of said head and pin; and key acting means



extending lengthwise of the pin for locking said head against rotation with respect to the pin, to prevent disengagement of said detachable head.

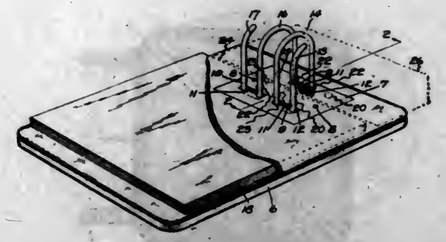
1,755,406. VALVE. SVEN JOHAN NORDSTROM, Oakland, Calif. Filed Aug. 7, 1928. Serial No. 297,987. 12 Claims. (Cl. 251—93.)



1. A valve comprising, a casing having a passageway therethrough and a cylindrical seat formed transversely of the passageway, a cylindrical plug loosely mounted in the seat and having a hole adapted to register with the passageway, said plug being substantially as long as the cylindrical seat in the casing, the lower side of said casing being closed and forming a chamber with the lower end of the plug, a spring interposed between the plug and the lower side of the casing for supporting the plug, the upper side of the casing being closed and forming a chamber with the upper end of the plug, a head threaded into the upper side of the casing, the lower extremity of the head being flattened and loosely engaging with a correspondingly shaped opening in the upper end of the plug to turn the plug when the head is turned, said head having a bore therethrough and being provided at the outer end of the bore with a fitting for the attachment of a lubricant compressor thereto, the upper end of the plug having passageways by which the inner end of the bore in the head communicates with the chamber in the upper side of the casing, and the seating surfaces of the cylindrical plug and the cylindrical seat in the casing being provided with grooves in communication with the interior of the head and the chamber in the upper side of the casing.

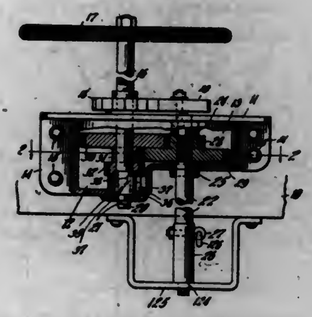
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1,755,407. FILE. THOMAS J. O'CONNELL, San Francisco, Calif. Filed June 14, 1927. Serial No. 198,722. 8 Claims. (Cl. 129—8.)



3. A file for perforated sheets comprising a base, a continuous metallic file strip including a loop portion and a spaced parallel prong coextensive with only a portion of the loop, and means associated with the base adapted for detachable engagement with the file strip adjacent the ends of the loop portion to anchor the strip to the base.

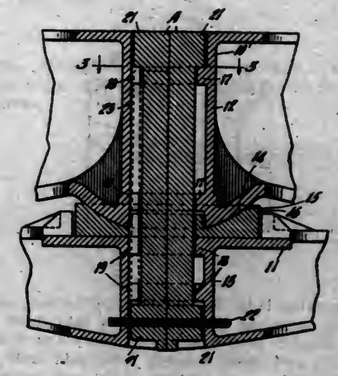
1,755,408. BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Sept. 12, 1924. Serial No. 737,257. 5 Claims. (Cl. 74—58.)



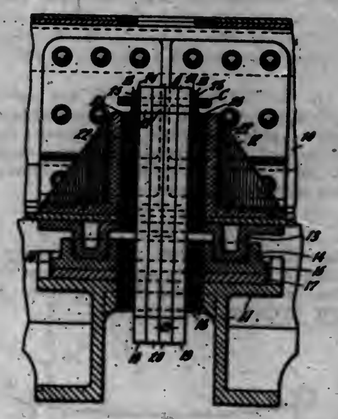
8. In a brake mechanism, the combination with a tightening element; of a plurality of transmitting means movable relatively to each other to effect different ratios; a continuous shaft having means rigid therewith for driving said transmitting means in their normal position; means for automatically shifting said transmitting means relatively to each other to change the ratios dependent upon change of tension in the brake rigging; and means rigid with said shaft for driving said transmitting means in their shifted position.

1,755,409. CAR CONSTRUCTION. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 27, 1928. Serial No. 295,654. 8 Claims. (Cl. 105—200.)

1. In car construction, the combination with body and truck bolsters having aligned center pin receiving openings, each of said bolsters being provided with a shouldered portion adjacent the outer end of the opening thereof; of a pin comprising a plurality of sections, each section having means at opposite ends thereof having shouldered engagement with the shoulders of said openings of the respective bolsters to prevent removal of the pin, said shoulders of the bolster being partly cut away to permit bodily insertion of the sections of said pin through the openings of said bolsters.

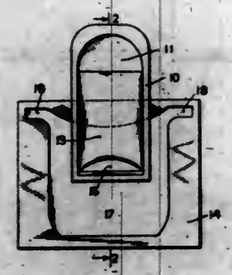


1,755,410. CAR CONSTRUCTION. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 27, 1928. Serial No. 295,655. 7 Claims. (Cl. 105—200.)



1. In car construction, the combination with body and truck bolsters provided with aligned center pin receiving openings; of a sectional locking pin connecting said bolsters, said pin comprising a plurality of sections each headed at opposite ends and said heads at opposite ends of each section having shouldered engagement with said bolsters, respectively, to prevent removal of the pin and separation of the bolsters.

1,755,411. LADLE. WILLIAM H. PRIECH, Baltimore, Md., assignor to American Smelting & Refining Company, New York, N. Y., a Corporation of New Jersey. Filed May 10, 1928. Serial No. 276,552. 5 Claims. (Cl. 22—79.)



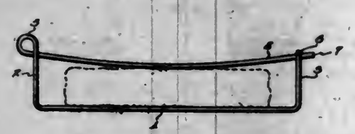
1. A pouring ladle for moulding operations having an outwardly extending spout, means in said spout for permitting metal to be discharged vertically and means associated with said spout whereby when said ladle is tilted a portion of the poured metal is directed rearwardly of said spout.

1,755,412. HIP TILE. ROBERT S. SCHMIEDER, Milwaukee, Wis., assignor to Milwaukee Corrugating Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 10, 1927. Serial No. 239,021. 5 Claims. (Cl. 108—24.)



2. A hip tile including separately and independently adjustable side pieces, each side piece including a vertical body member and an inclined body member, there being an offset between the members presenting a shoulder, and a crown piece having inturned marginal flanges slidably interfitted with the shoulders.

1,755,413. BACON HOLDER. CECIL C. SMITH, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1928. Serial No. 305,116. 2 Claims. (Cl. 17—44.)



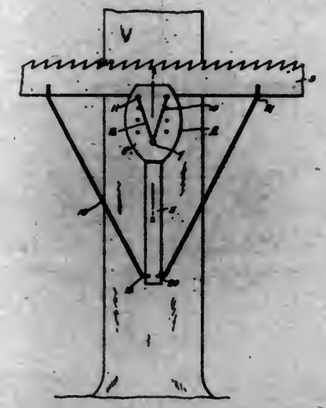
1. A meat holding clamp comprising a bent wire structure including a straight back part with a pair of transverse ends extending to one side, one end being curved in part to form a hook and the other end being curved at its remote end and extended to form a pin part to engage said hook.

1,755,414. PARACHUTE PACK. FLOYD SMITH, San Diego, Calif., assignor to Switlik Manufacturing Company, Trenton, N. J. a Corporation of New Jersey. Filed Sept. 12, 1928. Serial No. 305,603. 10 Claims. (Cl. 244—21.)



1. In combination, a parachute container open to expose a parachute therein and a parachute adapted to be housed in the container, said parachute having at the apex a reenforced section adapted to extend across and close the opening in the container on the outer side of the latter when the parachute is housed in the container.

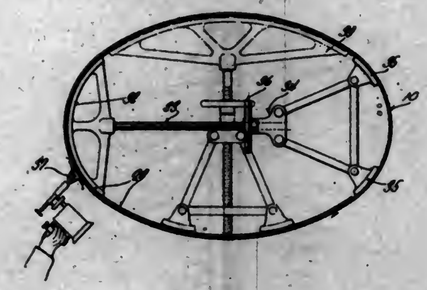
1,755,415. SAW-FILING STAND. ROBERT JAMES STIEFELMEIER, Ponce de Leon, Fla. Filed June 17, 1929. Serial No. 371,606. 5 Claims. (Cl. 76—78.)



1. A stand of the class described, comprising a shank with a head formed integrally on one end thereof and split to provide a pair of jaws for receiving a saw therebetween, means for drawing the jaws together to clamp them in engagement with the saw, said jaws having a plurality of openings, and pins insertable through said openings to support the saw at the desired elevation, chains connected to said pins and anchored on one of the jaws, said shank having notches in its side edges, rods having offset terminals engageable in said notches and fork terminals to engage the under edge of the saw.

1,755,416. METHOD OF FORMING TANKS. WALTER J. WACHOWITZ, Milwaukee, Wis., assignor to The Wacho Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 10, 1927. Serial No. 174,244. 1 Claim. (Cl. 113—120.)

The hereindescribed method of lining a tank of one metal with a lining of another metal which consists in tinning the inner surface of the tank, in tinning the outer surface of a section of lining, in securing the lining section in contact with the tank surface at all points by means of a pressure applying member of a shape to conform with the contour of the tank and of a size sufficient to engage the entire section and in applying heat to the outer surface of the tank to fuse the tinned surfaces of the tank and the lining.

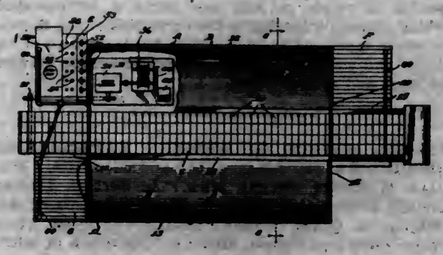


1,755,417. FRUIT CLIPPER. BLISS C. AMES, Corona, Calif. Filed June 19, 1928. Serial No. 286,658. 4 Claims. (Cl. 30—24.)



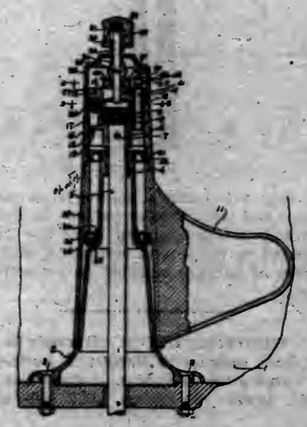
2. A fruit clipper comprising pivotally connected blades provided with downwardly convex longitudinally extending cutting edges, the tips of the blades curved inwardly and rearwardly in plan and the inner edges of the tips curved upwardly and inwardly and adjoining the forward ends of the cutting edges.

1,755,418. THERAPEUTIC APPARATUS. FRITZ A. ANDERSON, Milton, Wis., assignor to The Burdick Corporation, Milton, Wis., a Corporation of Delaware. Filed May 26, 1928. Serial No. 280,731. 5 Claims. (Cl. 174—177.)



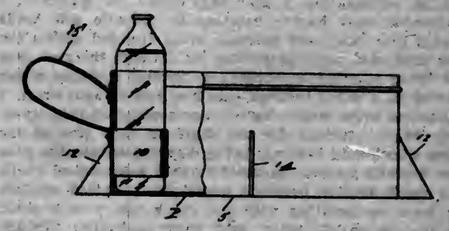
1. Therapeutic apparatus comprising a compartment, a radiant energy generator within the compartment, an endless moving belt-like tread by which patients may be moved through the compartment in the path of rays emitted by the radiant energy generator, and means for controlling the treatment, said means including a controller for varying the speed of the belt tread to vary the time a patient is subjected to the rays, and a controller for varying the intensity of the emission of the radiant energy generator.

1,755,419. WASHING MACHINE. ROBERT J. ANDERSON, Sidney, Ohio. Filed Mar. 11, 1929. Serial No. 345,945. 24 Claims. (Cl. 259—101.)



1. In a washer, in combination with a tub and an agitator stem, a shaft rotatably supported by said stem, an agitator supported around and operated by said shaft, and means between said stem and agitator to stabilize the agitator in its operation, said means including a sleeve on the agitator and a bushing on the stem.

1,755,420. STERILIZING PAN AND BOTTLE HOLDER. FREDRICK A. ARMSTRONG, Kirksville, Mo. Filed Mar. 16, 1929. Serial No. 347,579. 4 Claims. (Cl. 53—1.)



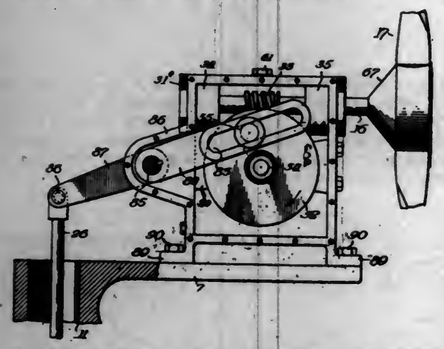
1. In combination, a pan, a wing projecting outwardly from the pan, said wing being of right triangular formation with its shorter leg coplanar with the bottom of the pan and its hypotenuse inclining outwardly and downwardly with respect to a wall of the pan while its longer leg is secured to said wall of the pan.

1,755,421. BUILT-UP STANDING-COLUMN PUMP. PATRICK H. BRAY, Long Beach, Calif. Filed Apr. 1, 1929. Serial No. 351,559. 5 Claims. (Cl. 74—109.)



1. In a deep well pump a built-up stem structure including upper and lower tubular sections for fluid flow and being separably attached, spaced guide and packing cylinders mounted on the several sections of said stem, and spaced bodies of packing mounted on respective sections of the stem.

1,755,422. WINDMILL DRIVE. HERBERT E. BUCKLEN, Elkhart, Ind., assignor to Herbert E. Bucklen Corporation, a Corporation of Indiana. Filed Dec. 30, 1925. Serial No. 78,275. 20 Claims. (Cl. 170—46.)



1. In combination, a gear case closed for lubricant, a horisontal shaft having bearings in opposite side walls of said gear case, said bearings being disposed within the gear case, said shaft projecting out through the gear case and being adapted to support a turbine propeller wheel thereupon, a worm between said bearings on said shaft, a transverse worm wheel shaft, a worm wheel on said transverse shaft, bearings for the shaft on each side of the worm wheel, said bearings being disposed within the gear case, a crank member mounted on said worm wheel shaft, said crank member having a crank pin, a slotted oscillating lever co-operating with the crank pin, a rock shaft for the oscillating lever, said lever projecting through the casing, and an external arm connected to said lever.

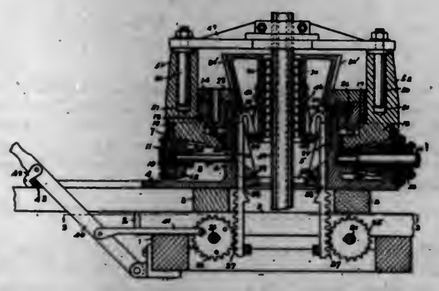
1,755,423. AIR CLEANER. WILLIAM C. BUTTNER, Chicago, Ill., assignor to The Bastian-Blessing Company, Chicago, Ill., a Corporation of Illinois. Filed June 27, 1928. Serial No. 288,568. 5 Claims. (Cl. 183—70.)

5. An air cleaner comprising a bracket, a fitting integral with the bracket, said fitting having an inlet, an outlet, and a drain, a stem on the fitting having a passage communicating with the inlet, a passage communicating with the outlet and a passage communicating with the drain, a reducer mounted on the stem, a casing mounted on the reducer and enclosing a cleaning chamber, an inlet



tube within the chamber and connected with the inlet passage, an outlet tube within the chamber connected with the outlet passage, the outlet tube extending above the discharge end of the inlet tube, and a filter device arranged within the chamber between the discharge end of the inlet tube and inlet end of the outlet tube.

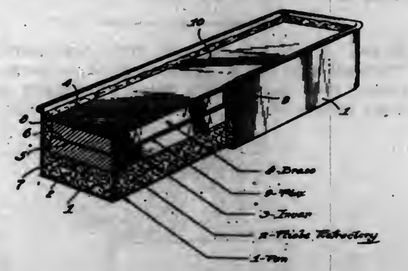
1,755,424. WELL-BORING APPARATUS. MONROE W. CARROLL, Beaumont, Tex. Filed June 29, 1926. Serial No. 119,326. 9 Claims. (Cl. 255—23.)



9. A well boring apparatus including a base plate having a pipe receiving opening said plate also having an annular channel surrounding said opening, a master wheel mounted to rotate on said base plate, a driving shaft working through a bearing in the outer wall of the channel and whose inner end is journaled in the inner wall of the channel and means forming a driving connection between said shaft and master wheel.

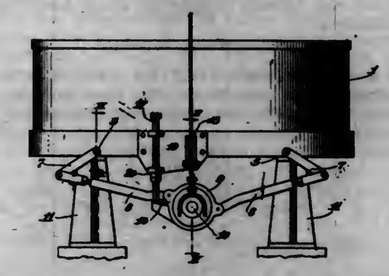
1,755,425. METHOD OF WELDING MATERIALS OF DISSIMILAR THERMAL CHARACTERISTICS. WILLIAM M. CHACE, Detroit, Mich.; Adelbert H. Lindley, Arthur Cooper, and Hilma B. Chace, executors of said William M. Chace, deceased, assignors to W. M. Chace Valve Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 14, 1927, Serial No. 219,563. Renewed Feb. 21, 1930. 4 Claims. (Cl. 22—204.)

1. The method of welding two metal pieces together of different heat resistant quality which consists in finishing a face of each part to provide a flat surface free from dirt or scale, placing the metal of the greatest heat resistant quality in a receptacle, shielding the untreated surfaces thereof with a pliable refractory material, coating the prepared surface with a flux, placing the material of lower heat resistant quality with its finished surface facing the



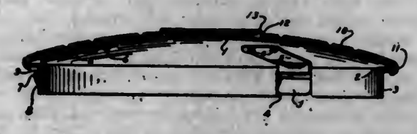
flux covered surface of the first piece, then submitting the assembled pieces to a temperature sufficient to melt the material of the lower heat resistant quality, puddling the said metal of low heat resistant quality while in a melted state to coagulate the dirt and eliminate gas and air pockets, and allowing the metal to cool before removal from the receptacle.

1,755,426. DOOR-OPERATING MECHANISM FOR MIXING MACHINES. ALFRED C. CHRISTENSEN, Chicago, Ill., assignor to National Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 10, 1928. Serial No. 304,990. 13 Claims. (Cl. 259—28.)



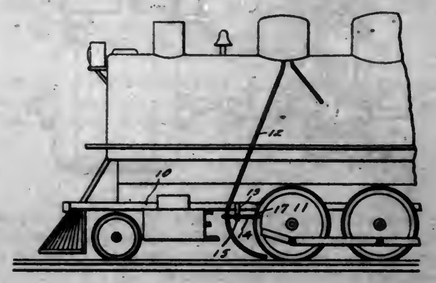
1. In a mixing machine having a bottom, a pair of doors in said bottom, a rod for supporting each door for turning movements, an arm on each rod, a driving shaft, a disc having a clutch face rotatably mounted upon said shaft, a rigid link connecting each arm with said disc, said disc having a lug, an actuating member engageable with said lug for turning said disc to open said doors, a clutch splined upon said shaft, and means for engaging said clutch and disc to move said disc in a direction to close said doors.

1,755,427. HUB CAP. RAE E. COCHRAN, Columbus, Ohio, assignor to The D. L. Auld Company, Columbus, Ohio, a Corporation of Ohio. Filed June 13, 1929. Serial No. 370,557. 3 Claims. (Cl. 301—108.)



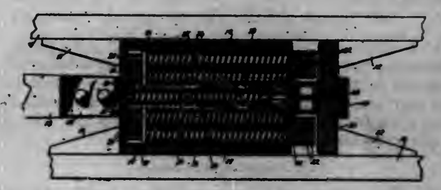
2. In a hub cap, a body member having an inwardly directed hub engaging flange forming with the body member a circumferential bead, an ornamental plate for said body member having its edges turned over in engagement with said bead, said ornamental plate having a hole therein, and a design plate back of said hole and supported by said body member and said ornamental plate.

1,755,428. SANDING APPLIANCE FOR USE WITH LOCOMOTIVES. JAMES EDWARD CONNELLER, Baltimore, Md. Filed Jan. 22, 1929. Serial No. 334,289. 2 Claims. (Cl. 291—41.)



2. In a sanding appliance for locomotives, the combination with the usual locomotive frame, driving wheel and sanding pipe rigidly secured at its upper end to the locomotive frame and depending in advance of the driving wheel, of a horizontally swinging lever pivotally supported from the frame having at its rear end a fork receiving the wheel the arms of which closely approach opposite faces of the wheel, the lever at the opposite side of the pivot from said fork having an opening through which the sanding pipe is directed, the connections of said lever to the frame including a bracket rigidly secured to the locomotive frame to the lower end of which the lever is pivoted.

1,755,429. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 17, 1923. Serial No. 663,083. 7 Claims. (Cl. 213—33.)

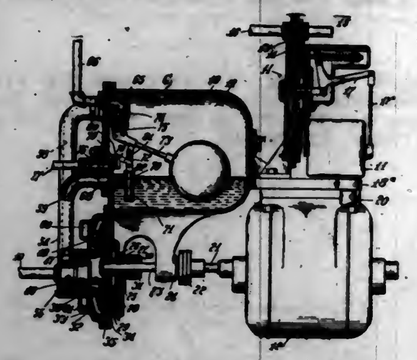


1. In a draft gear, in combination, a pair of opposed followers, two sets of cooperating wedging and friction elements interposed between the followers, said friction elements being bifurcated to provide a spring chamber located on the horizontal median portion of the gear, means for resisting the wedging action of said elements, and a series of springs housed within the chamber and reacting between the named cooperating elements.

1,755,430. DIFFERENTIAL VACUUM PUMP. DAVID N. CROSTHWAIT, Jr., Marshalltown, Iowa, assignor to C. A. Dunham Company, Marshalltown, Iowa, a Corporation of Iowa. Filed Aug. 1, 1927. Serial No. 209,775. 14 Claims. (Cl. 230—75.)

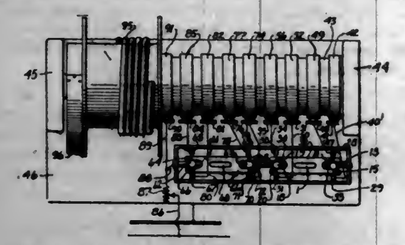
1. A fluid pumping apparatus comprising a rotary impeller formed with a circular series of substantially radial channels provided with open ports at their inner

and outer ends, and an impeller casing formed with alternate air inlet and discharge channels positioned to communicate with the inner impeller ports, and channels for



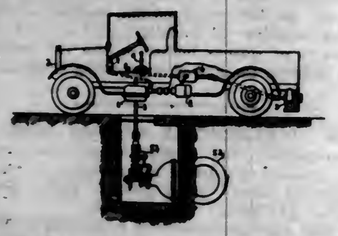
circulating a liquid from certain of the outer impeller ports to other circumferentially spaced outer impeller ports, portions of said liquid channels being formed in the casing and portions in the impeller.

1,755,431. CIRCUIT-CONTROLLING MECHANISM. KENNETH DAVIS, St. Benedict, Pa., assignor, by mesne assignments, to Rembrandt Peale, St. Benedict, Pa., W. Sanders Davies, New York, N. Y., and William S. Wallace, Philadelphia, Pa., trustees. Original application filed Nov. 2, 1921, Serial No. 512,806. Divided and this application filed Mar. 4, 1922. Serial No. 541,122. 32 Claims. (Cl. 200—5.)



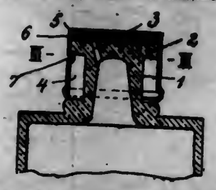
1. A manually operated circuit control comprising a supporting rod, a plurality of circuit closing arms loosely mounted on said rod, and a handle loosely pivoted on said rod and movable about two separate axes and engaging with a plurality of said arms to move them into and out of circuit-closing position.

1,755,432. PORTABLE VALVE-OPERATING MECHANISM. PETER P. DEAN, Stamford, Conn., assignor, by mesne assignments, to Cutler-Hammer, Inc., a Corporation of Delaware. Filed Aug. 9, 1922. Serial No. 580,694. 4 Claims. (Cl. 180—53.)



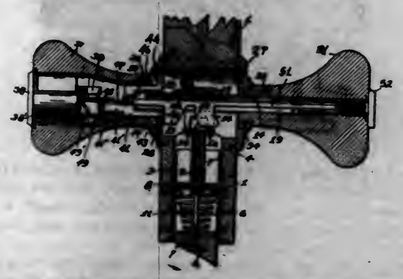
1. The combination with a motor vehicle having a take-off transmission, of a valve key driving unit to be subjected to reverse operations by the vehicle engine through reversal of the direction of operation of said take-off transmission, a stopping device associated with the engine and adapted to be operated by said unit to control the engine and driving connections between said device and unit insuring unidirectional operation of the former regardless of reversals of the latter.

1,755,433. CLOSURE DEVICE FOR PERFUME BOTTLES OR THE LIKE. WILHELM DÜSKOW, Berlin, Germany. Filed Dec. 4, 1928, Serial No. 323,686, and in Great Britain Dec. 28, 1927. 2 Claims. (Cl. 215—76.)



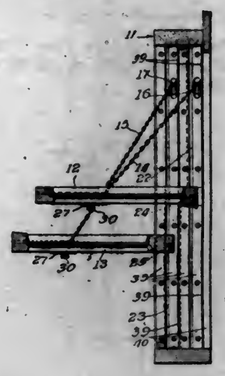
1. In a closure-device for perfume-bottles or the like, a bottle having a neck provided with a cylindrical flange formed around it, and having formed therein an eccentrically arranged spraying opening, a metal cap having an eccentrically placed spraying aperture in its top, a washer embraced by said cap and bearing on the flange, said washer having an opening registering with said aperture, said metal cap having a plurality of embossments bent inwards beneath the lower face of the flange and bearing against the same to secure a close contact between the flange and the washer, a pair of said embossments being spaced to form a groove in said cap, and a stop on the said neck beneath the flange and projecting into said groove between said pair of embossments to cooperate with said embossments to limit the rotary movements of the metal cap.

1,755,434. DOORKNOB-LOCKING DEVICE. ELLING ELLINGSON, San Francisco, Calif. Filed Apr. 29, 1929. Serial No. 358,964. 12 Claims. (Cl. 70—91.)



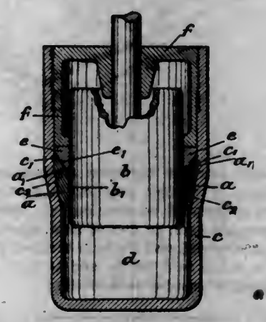
1. A door knob locking device comprising a knob stem extending through a door and having a longitudinal groove formed in one side thereof; inner and outer knobs connected upon the ends of the stem; a latch bolt slidably mounted within the edge of the door; means connecting the bolt and stem for retracting the bolt and stem for retracting the bolt when the stem is turned; a locking member slidably mounted within the outer knob and movable to engage and disengage the stem, said member being provided with locking portions movable to lock the knob against turning; key actuated means mounted within the outer knob for actuating the locking member; and a manual actuating member slidably mounted within the groove of the knob stem and extending through the inner knob for operation from the inside of the door, said actuating member having its inner end rotatably secured to the locking member and being provided with an extension extending laterally from the slot and movable to a position locking the stem and inner knob against rotation.

1,755,435. WINDOW CONSTRUCTION. ANDREW EZGETA and CHARLES D. FLAMM, Chicago, Ill., assignors of fifty-five per cent to said Ezgeta and forty-five per cent to said Flamm. Filed Aug. 8, 1928. Serial No. 298,222. 3 Claims. (Cl. 20—42.)



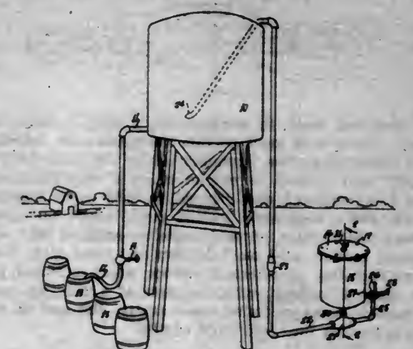
1. In a window structure, the combination of a frame having a pair of vertical stiles spaced apart and provided on their co-operating inner faces with vertically disposed slots, a window sash mounted in a manner to operate between said stiles and capable of being tilted at an angle with respect to said stiles, a pair of trunnions secured to the vertical sides of the window sash adjacent the lower end thereof and being adapted to enter the vertical slots in said stiles in a manner to be guided therein, the said stiles each being provided with notches formed therein adjacent said vertical slots and communicating therewith, said notches being adapted to receive and support said trunnions in a manner to provide fulcrums about which said sash may be tilted, a pair of flexible members, one of each being secured to the vertical sides of the sash at points sufficiently near the upper end thereof to adequately support the sash when in tilted position on said fulcrums, anti-friction rollers in said stiles adjacent the upper ends thereof over which said flexible members are threaded, and weights for counterbalancing said sash secured to the free ends of said flexible members on the opposite sides of said anti-friction rollers from said sash.

1,755,436. STUFFING BOX. FRITZ FAUDI, Sommerda, Germany. Filed Feb. 1, 1928, Serial No. 250,985, and in Germany July 6, 1927. 5 Claims. (Cl. 286—35.)



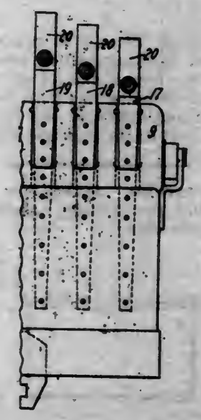
1. A packing for use in connection with cushioning devices employing a casing having a pressure chamber and a plunger receiving chamber opening at one end into the inner end of the pressure chamber, an annular abutment at the point of juncture of said chambers, the wall of the plunger receiving chamber being longitudinally tapered in advance of said abutment and between the same and the pressure chamber, and a plunger movable between said chambers, said packing comprising a packing ring of elastic material having one of its faces exposed to the pressure in the pressure chamber and a backing ring lying in contact with the other face of the packing ring and against said abutment, the contacting faces of said packing ring and said backing ring being wedge-shaped, and the inner periphery of said packing ring being formed to snugly embrace the plunger and the outer periphery of said packing ring being tapered to conform to the tapered portion of the wall of the pressure chamber and lying in contact therewith.

1,755,437. BRINE-MIXING APPARATUS. ANTONIO FAZIO, Portland, Oreg. Filed Jan. 15, 1929. Serial No. 332,722. 4 Claims. (Cl. 259—4.)



1. A brine mixing apparatus consisting of a mixing tank, a closure for said mixing tank, a screened outlet for said mixing tank, an ejector adapted to draw liquids through said outlet, a three-way valve for admitting water to said tank or to said ejector whereby water may be forced through said tank or around said tank in a manner to withdraw any water which has collected therein.

1,755,438. EXCAVATING DIPPER. BERLIN S. FERGUSON, Marion, Ohio, assignor to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Filed Mar. 26, 1928. Serial No. 264,757. 1 Claim. (Cl. 37—141.)

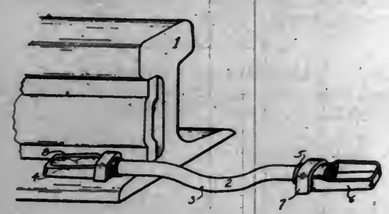


In an excavating dipper, a plurality of teeth each comprising a base secured to the forward edge of said dipper,

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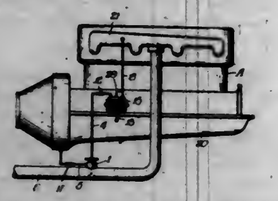
and a point detachably secured to said base, the points of the several teeth being of the same length and the bases of said teeth being of different lengths and so arranged that the forward ends of said points will lie in converging lines.

1,755,439. RAIL BOND. ROBERT GOODYEAR, Cleveland, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Jan. 3, 1922. Serial No. 526,858. 10 Claims. (Cl. 173—278.)



1. In a rail bond, in combination, a mold portion, and a bond cable, said mold portion comprising an extended cable engaging section extending along the cable and an upright wall formed to extend along a rail base, said cable being engaged and gripped by said cable engaging section, and a separately formed metal insert interposed between the portion of said cable so engaged and said engaging section, said mold portion and bond cable forming an open-top, open-bottom molten metal retaining portion adapted to form, with the base of a rail, an open-top molten metal receiving mold cavity, the end of said cable extending into said mold cavity.

1,755,440. OIL-REFINING DEVICE. EDWARD L. GROSS, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,675. 18 Claims. (Cl. 123—196.)



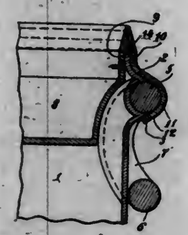
1. In an oil refining device, a receptacle, said receptacle comprising an oil receiving portion adapted to be associated with heating means, and an oil inlet and an oil outlet, said outlet extending to a point below the oil level in the receptacle and delivering the oil therefrom at a point above said level by the pressure of the vapor formed.

1,755,441. CONTAINER. JAMES EDW. GUNTER, Baltimore, Md. Filed Apr. 1, 1926. Serial No. 98,998. 5 Claims. (Cl. 220—61.)



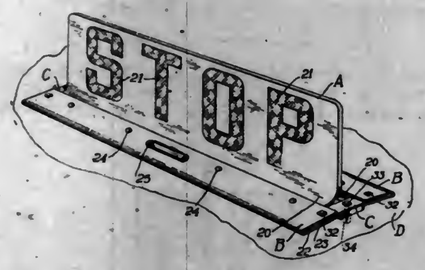
1. In a container, a cap fitting within and being upheld by the container wall, an upwardly and outwardly directed shoulder on said cap, a retaining band having a top of greater perimeter than its bottom within the container and abutting against said shoulder, said wall partially overlapping the band, thereby holding it in its shoulder abutting position.

1,755,442. CONTAINER. JAMES EDW. GUNTER, Baltimore, Md. Filed Apr. 12, 1926. Serial No. 101,310. 16 Claims. (Cl. 220—61.)



1. The method of assembling a container having a flexible wall adjacent its mouth or opening with a cap and a retaining ring having a projecting handle, which consists in placing the retaining ring around the outer wall of the mouth or opening of the container with the handle projecting away from said mouth or opening, placing the cap on the container, and applying inwardly directed pressures to the periphery of the cap to form a bead thereon which longitudinally surrounds and partially encloses said retaining ring and presses the same firmly against said container, and depressing said flexible wall of the container with said handle at the place where it projects from said bead.

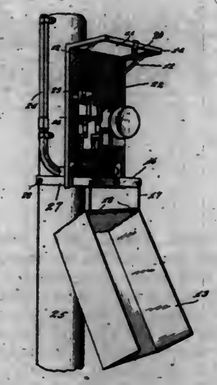
1,755,443. UPRIGHT HIGHWAY MARKER. MELVIN E. HARTZLER, Downers Grove, and EDGAR P. ROMILLY, Chicago, Ill. Filed Apr. 15, 1929. Serial No. 355,302. 19 Claims. (Cl. 40—125.)



1. A resilient upright highway marker comprising an indicating blade of flexible resilient material having its lower portion bifurcated to provide two base sheets, two base plates secured each to one of said sheets and extending lengthwise thereof, and keepers secured to the ends of said plates to space said plates and to secure said plates together as a rigid base for said blade.

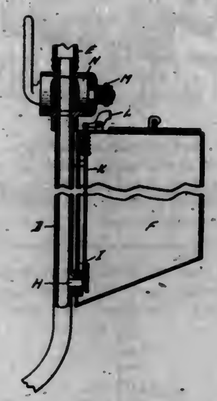
1,755,444. METER BOX. FOSS C. HUSH, Lincoln, Nebr. Filed June 7, 1928. Serial No. 283,690. 7 Claims. (Cl. 220—34.)

1. A box, comprising a back and top rigid with each other, a cover formed to provide when in place a bottom, sides, and a front for the box, a rigid member pivotally mounted near the back edge of the cover bottom, and a



bracket secured to the box-back and projecting forwardly therefrom, said member being pivotally mounted in said bracket near the front thereof.

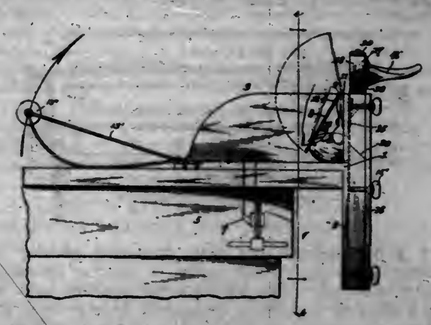
1,755,445. APPARATUS FOR PLANT CULTURE. CHARLES F. IRISH, Bratenahl, Ohio. Filed Nov. 28, 1927. Serial No. 236,125. 1 Claim. (Cl. 47—49.)



A device for the purpose set forth comprising an air gun adapted to be connected with a suitable supply of compressed air, and including a two-way valve for controlling the flow of the air through said gun, a fertilizer containing receptacle attached to said gun, means for connecting the second outlet of said valve with said receptacle, means connecting the lower part of said receptacle to said gun and providing a passage therebetween, and a valve for closing said passage.

1,755,446. HOUSEHOLD COMBINATION CUTTING MACHINE. JOHN L. JACKMAN, New York, N. Y. Filed July 14, 1927. Serial No. 205,672. 4 Claims. (Cl. 146—158.)

1. In a food cutter, a frame adapted to be made fast to a fixed object, a member slidable in said frame said member comprising a cutter plate and a gage plate movable therewith, means actuated by gravitation for feeding vegetables to the cutter, said means consisting of a roller



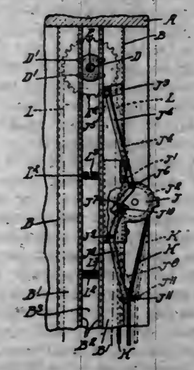
weight carried in a yoke hinged to the said frame and a hinged plate urged by said weight, and means for operating said slidable member.

1,755,447. TRAIN-CONTROL AND CAB SIGNAL SYSTEM. MATTHEW H. LOUGHRIDGE, Bogota, N. J., and JOHN S. HOLLIDAY, New York, N. Y.; J. Margaret Holliday, administratrix of said John S. Holliday, deceased, assignor to Matthew H. Loughridge, trustee, Bogota, N. J. Filed Nov. 22, 1921. Serial No. 516,945. 53 Claims. (Cl. 246—63.)



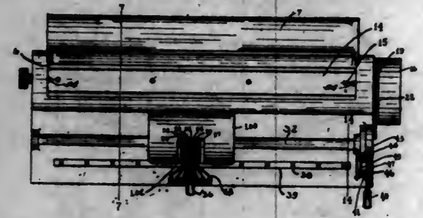
1. In combination, a railway track, a vehicle thereon, an elongated magnet on said track, one pole of said magnet consisting of one rail of said track and the other pole consisting of a ridge placed parallel with said rail, a plurality of means secured to said rail for supporting said ridge, a plurality of spaced energizing coils between said ridge and the web of said rail and a device on said vehicle responsive to both poles of said magnet.

1,755,448. VENETIAN BLIND. HENRY J. MACKIN, Chicago, Ill. Filed Feb. 5, 1927. Serial No. 166,092. 16 Claims. (Cl. 156—17.)



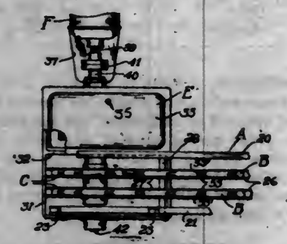
1. In a blind, raising and lowering means for such blind, and latching means for such raising and lowering means, adapted to hold the blind in any position of vertical adjustment irrespective of the means by which it is moved to such position of adjustment.

1,755,449. COST-ACCOUNTING MACHINE. JOHN W. MARDER, Rochester, N. Y. Filed May 2, 1924. Serial No. 710,580. 2 Claims. (Cl. 234—50.)



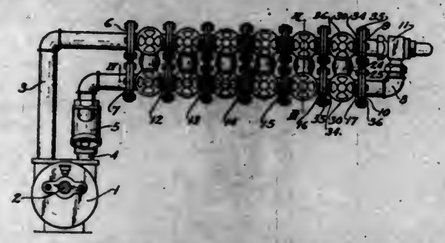
2. A time recorder and work identifying machine comprising a movable record holder, a printing mechanism having relatively adjustable printing elements, each having a plurality of different characters whereby work identifying expressions may be set up, a timing mechanism for moving the record holder relatively to the printing mechanism comprising a pawl operative to move the record holder in a positive direction, and means for shifting the pawl to inoperative position and back spacing the record holder, means for guiding the printing mechanism transversely of the record holder to print at different points thereon at any given time and in rear of said points where the record holder is moved to each spacing position.

1,755,450. CONVEYER AND DRIVING-MOTOR CONSTRUCTION. JULIUS J. MOJONNIER, Oak Park, Ill., assignor to Mojonnier Bros. Co., a Corporaiotn of Illinois. Original application filed May 17, 1926, Serial No. 109,728. Divided and this application filed Apr. 10, 1929. Serial No. 354,019. 7 Claims. (Cl. 198—203.)



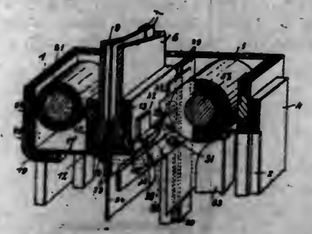
1. A conveyer and driving motor construction comprising a long conveyer frame having vertical posts located at intervals along its sides, longitudinal side members connecting said posts on each side of the frame and transverse members uniting the posts and side members; sheaves at opposite ends of said conveyer frame; a metal link belt around said sheaves; a rectangular gear frame at one end of said conveyer frame positioned midway of the height of said conveyer frame in a horizontal plane and adapted to be installed either side up, said gear frame having a central member adapted to extend longitudinally of said conveyer frame no matter which side of the gear frame is uppermost, said member dividing said gear frame into two parts, one of said parts being open and containing one of said sheaves and the other of said parts being enclosed to form a casing, the open part being in line with said conveyer frame no matter which side of said gear frame is uppermost, and the enclosed part being laterally offset therefrom in both cases; a shaft for the enclosed sheave extending transversely and having bearings in the longitudinally extending parts of said gear frame and in said central member; a motor shaft extending into said gear frame casing; gearing in said casing for conveying power from said motor shaft to said sheave shaft, said gearing comprising cooperating shafts and gear wheels; a motor coupled to said motor shaft outside of said casing; and a support for said motor and the offset enclosed part of said gear frame to which the latter may be connected either side up.

1,755,451. CONCENTRATED-CONTROL UNIT. ANDREW M. MORRISON, Dubuque, Iowa. Filed Dec. 17, 1927. Serial No. 240,909. 2 Claims. (Cl. 137—78.)



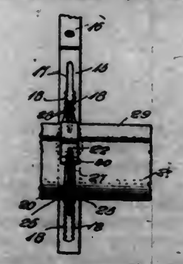
1. A concentrated control unit comprising a pump mechanism, means for operating the same, a pair of pipes connected with said pump mechanism, a filter unit connected in one of said pipes, an end pipe union, a relief valve therein, a plurality of double valve units connected in communicating relation adjacent one another between said pipe union and the pipes connected with said pump mechanism, and a plurality of pipe lines connected with the respective double valve units and adapted to be connected with a tank car, a plurality of tanks and a loading rack, as desired.

1,755,452. CAMERA. CÉSAR MOTTI, Alpes-Maritime, France. Filed Apr. 7, 1927, Serial No. 181,649, and in France Dec. 10, 1926. 18 Claims. (Cl. 95—49.)



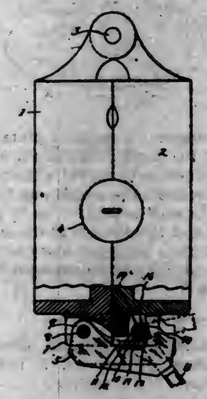
1. A photographic apparatus having a focusing screen, a casing mounted at the upper extremity thereof having a sensitized member therein and means for automatically removing said focusing screen and substituting said sensitized member in place thereof.

1,755,453. EAVES-TROUGH HANGER. CHARLES P. MULLEN, Conshohocken, Pa. Filed Aug. 29, 1928. Serial No. 302,864. 9 Claims. (Cl. 108—29.)



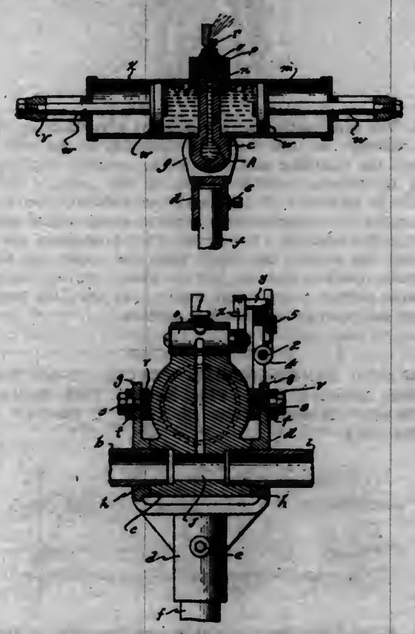
1. An eaves trough hanger comprising a stationary resilient vertical bar having a longitudinal slot providing it with two parallel side members, a trough-supporting member having a portion abutting the front side of said bar and provided with parallel vertical flanges straddling said bar, a lug on said trough-supporting member adapted to enter said slot, momentarily spring said side members apart and then snap into engagement with said side members, and bar-engaging means on said trough-supporting member above said lug, said means slidably and pivotally engaging said bar.

1,755,454. CLAMP. ADOLPH L. NELSON, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Filed June 15, 1925. Serial No. 37,316. 1 Claim. (Cl. 292—103.)



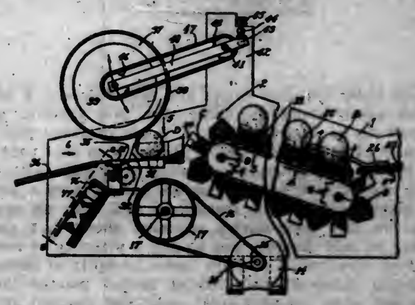
The combination with relatively movable sections, of a clamping member connected to one of said sections, and a cooperating clamping member rotatively mounted upon the other of said sections and provided with a cam portion having a flat face and a cam face alternatively engageable with said first mentioned clamping member to clamp said sections in different positions, said cam face being arranged to provide a rolling contact with said first mentioned clamping member.

1,755,455. AUTOMATIC TURNING DEVICE FOR SPRINKLING SYSTEMS. BERT J. NELSON, Detroit, Mich., assignor to White Showers, Inc., Detroit, Mich., a Corporation of Michigan. Filed Dec. 17, 1924. Serial No. 756,394. 15 Claims. (Cl. 299—66.)



1. In a liquid distributing system, the combination of a fluid pressure oscillating motor, a spray conduit connected to an oscillating part of said motor, the axis of movement of said spray conduit being in line with the pivot point of said oscillating part, a conduit for supplying liquid to said spray conduit, means for directing part of said liquid to said motor for operating the same to oscillate said conduit, a plurality of adjustable means for independently controlling the flow of liquid to and the actuation of said motor to control the amplitude of said oscillating motion, and means pivotally connected to an oscillating part of said motor and having its fulcrum at a different point than said first named pivot for varying the speed of oscillation of said conduit during each stroke.

1,755,456. APPARATUS FOR MARKING FRUIT AND SIMILAR ARTICLES. HARRY G. NUTT, Altadena, and STANLEY C. BARTHOLOMEW, Uplands, Calif., assignors to Scheu Manufacturing Company, Uplands, Calif., a Corporation of California. Filed Oct. 31, 1928. Serial No. 316,244. 5 Claims. (Cl. 101—40.)



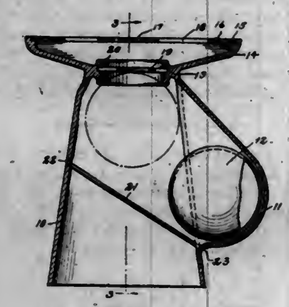
1. An apparatus for marking fruit comprising guiding means and means for causing fruit to pass in a plurality of columns over said guiding means, a single marking element for each such column of fruit, and means for moving each marking element from marking position to inking position and back again between passages of successive fruit in the corresponding column into position of engagement with said marking element.

1,755,457. SCREED SUPPORT. JOHN S. O'HARN, Bethune, Colo. Filed Mar. 6, 1928. Serial No. 259,408. 3 Claims. (Cl. 72—101.)



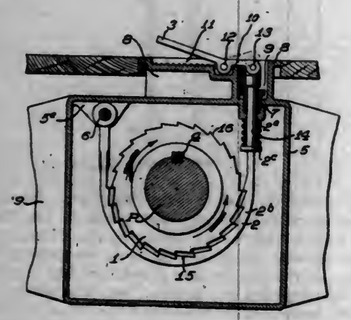
3. A screed for use in connection with the laying of concrete floors and the like comprising, in combination, a straight bar of angle iron having a plurality of supports secured thereto, the supports each comprising, a metal bar bent at two points into a substantially U-shape, the sides being parallel and pointed, the base which connects the sides being straight and flattened so as to fit against one side of the angle, a portion of the side adjacent the end being also flattened and adapted to fit against the other flange of the angle, said flattened end and side being provided with openings adapted to register with corresponding openings in the screed and bolts extending through the openings for securing the supports to the screed.

1,755,458. FLOOR DRAIN AND AUTOMATIC FLOOD PROTECTOR. JOHN OLESZKO, Detroit, Mich. Filed May 18, 1929. Serial No. 362,732. 1 Claim. (Cl. 182—15.)



In a cellar drainage device and sewer closure, a body having substantially the shape of a cone frustum, and adapted to be connected with a sewer drainage pipe, a laterally extending ball socket formed with said body, a ball float in said socket, a seat integrally formed with the upper end of said body having an inner groove a bowl, the bottom of which is formed by said seat, an upper flange on said bowl having an inner shoulder, a plate resting on said shoulder and having a plurality of round openings arranged in a circle, and a plurality of radially extending elongated slots having narrow pointed inner ends and wider rounded outer ends, and grouped about said circle of holes, for allowing the draining of the cellar and retaining refuse, a spider formed by crosswise arranged bars resting with their outer ends in the groove of said seat, for limiting the upward movement of the ball when floated by the sewer water rising in socket and body, and a plurality of inclined bars in said body below said socket for guiding the ball float back into said socket upon recession of the sewer water.

1,755,459. REVERSE-MOVEMENT BRAKE MECHANISM FOR AUTOMOBILES. WILBUR S. SAMPLE, Los Angeles, Calif., assignor of one-half to Eugene F. Hunter, Los Angeles, Calif. Filed Nov. 13, 1926. Serial No. 148,267. 8 Claims. (Cl. 188—30.)



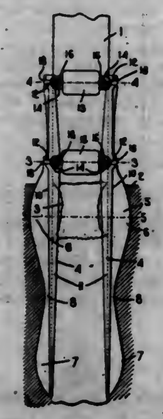
1. In combination with an automobile, an emergency brake including ratchet and flexible ratchet band means for braking the automobile against backward movement, but permitting forward movement of the automobile.

1,755,460. ARCH SUPPORT. WILLIAM M. SCHOLL, Chicago, Ill. Filed Aug. 26, 1927. Serial No. 215,571. 4 Claims. (Cl. 36—71.)



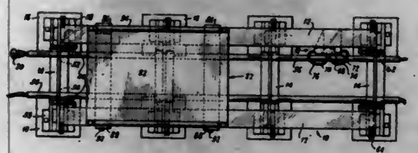
1. In an arch support, a metallic plate longitudinally curved to support the inner longitudinal arch of a foot, said plate being transversely curved adjacent the anterior portion thereof to underlie the second and third and fourth metatarsal heads in such a manner as to give more support to the second and third heads of the metatarsus than to the fourth, said plate being cut away adjacent the rear portion thereof to permit the rounded portion of the heel to rest off the plate.

1,755,461. POLE REENFORCEMENT. GEORGE B. SPRING, West Newton, Mass. Filed Oct. 7, 1926. Serial No. 139,979. 4 Claims. (Cl. 20—99.)



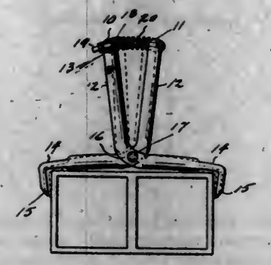
1. The combination with a pole, of a reenforcing member therefor set into the earth alongside of the pole and means for clamping said reenforcing member to the pole, said reenforcing member having on the portion thereof which is embedded in the earth, an outwardly-extending rib which by its engagement with the earth resists lateral swinging movement of the pole, an intermediate portion of said rib having less width than the upper and lower portions thereof and the portion above the intermediate narrow portion being wider and longer than the portion below said narrow intermediate portion.

1,755,462. MINE-RAILROAD TRACK. JACOB STEINBERG, Brooklyn, N. Y. Filed Nov. 18, 1927, Serial No. 234,083. Renewed Sept. 18, 1929. 9 Claims. (Cl. 238—10.)



1. A track section comprising cross-ties of inverted T-shape having openings therein, channel shaped rails having spaced projecting portions, said projecting portions being adapted to engage on opposite sides of the vertical portion of one of said cross-ties, and means for clamping said rails to said ties.

1,755,463. DEVICE FOR HANDLING BUILDING MATERIALS. CLARENCE W. WADDELL, Dallas, Tex. Filed May 17, 1928. Serial No. 278,585. 2 Claims. (Cl. 294—62.)



2. A pair of tongs for setting building materials such as tile, terra-cotta, stone, et cetera, comprising a pair of pivoted members each having an upright handle and a pair of flattened prongs for engagement with the building materials, and means such as a coiled spring to open, said tongs after being compressed by the hands.

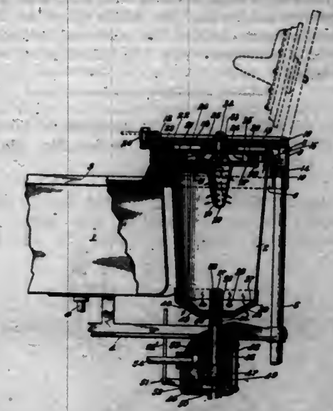
1,755,464. VALVE FOR PNEUMATIC CONVEYERS. SAMUEL WILLIAMS, Elk City, Okla. Filed Oct. 29, 1927. Serial No. 229,704. 2 Claims. (Cl. 137—9.)



1. A valve for pneumatic conveyers comprising a casing consisting of detachable top and bottom members and side members and having branch members and a single piece side member for the interior sides of said branch members, lugs attached to said side members and bent on the edges of said top and bottom to hold said side members against inward movement and for spacing said top and bottom members apart, means for clamping said top and bottom members on said side members and for locking said side members against outward movement, said valve having a plurality of openings to be selectively used, and a gate valve pivotally mounted at the juncture of said branch members for directing material through the selected openings.

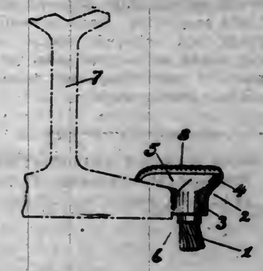
1,755,465. WASHING MACHINE. DOUGLAS A. WILSON, Peoria, Ill., assignor to Altorfer Bros. Company, East Peoria, Ill., a Corporation of Illinois. Filed Dec. 16, 1927. Serial No. 240,547. 12 Claims. (Cl. 210—75.)

1. In a machine of the character described, a receptacle for extracting water from clothing by centrifugal action, and to subsequently dry the clothing by the introduction of air thereto, means to rotate said receptacle in one continuous direction and while so rotated to extract water by centrifugal action and to discharge the same from the upper end thereof, means to alternately rotate said receptacle continuously in an opposite direction and means



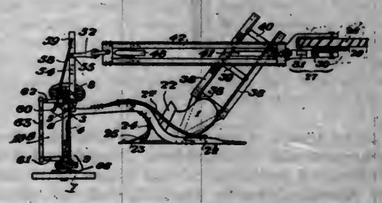
operable only when the receptacle is so rotated to induct air thereto and to cause a circulation of such air therethrough.

1,755,466. RAIL BOND. WILLIAM P. BOYARD, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Apr. 15, 1925. Serial No. 23,343. 17 Claims. (Cl. 173—278.)



1. A rail bond comprising a flexible body member and a terminal member, the terminal member comprising means to grip the body member adjacent the end of the body member, a projecting retaining wall about a portion of the exposed end of the body member to catch, support and retain molten attaching metal and means projecting laterally from the retaining wall to engage a rail and support the bond thereon and to form with the rail a receptacle to catch, support and retain attaching metal used in securing the bond to the rail.

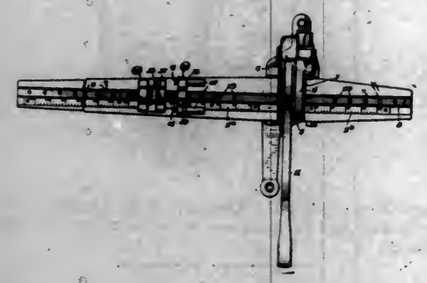
1,755,467. COMBINED ROAD BUILDER, DITCHER, AND BRUSH BREAKER. SIGURD HANS BURNSTAD, Round Hill, Alberta, Canada. Filed May 18, 1927. Serial No. 192,458. 4 Claims. (Cl. 37—110.)



1. In a device of the kind described, a front truck, a plowing unit drawn from said front truck, and auxiliary

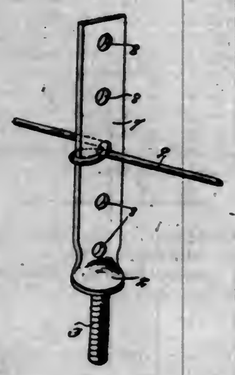
truck drawn from said front truck and having a front wheel and a rear swivelled wheel, an endless conveyer positioned between said plowing unit and said auxiliary truck receiving at one end the earth raised by the plow and discharging said earth at the other end, and means for actuating said conveyer from the rotation of said rear swivelled wheel.

1,755,468. CUTTER. EDWARD CHESHIRE, St. Petersburg, Fla. Filed May 18, 1925. Serial No. 30,898. 7 Claims. (Cl. 164—59.)



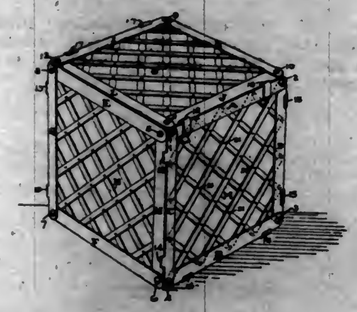
1. In a cutter, means for supporting material to be treated, a movable cutting blade disposed intermediate of the length of said supporting means, a readily removable micrometer gauge, and uniformly spaced abutments on said supporting means at the two sides of said cutting blade for removably positioning said micrometer gauge at either side of said cutting blade.

1,755,469. COVER HANGER AND PLATE-FASTENING DEVICE. WILLIAM M. CONNERY, Philadelphia, Pa. Filed May 18, 1928. Serial No. 278,880. 6 Claims. (Cl. 137—75.)



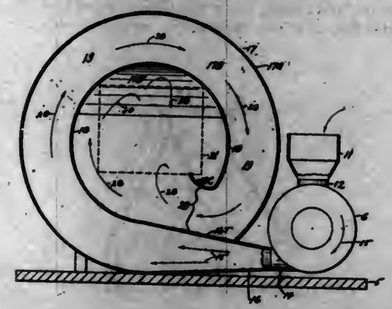
1. As an article of manufacture, a combined plate fastening element and cover support, consisting of a headed element with a projection formed integral with the head of the element, whereby application of the element to fasten two plates together permits the application of a cover thereon to be spaced from the wall.

1,755,470. FOLDABLE BOX. LEONARD ST. CLAIR COOPER, Hollywood, Calif. Filed Mar. 20, 1926. Serial No. 264,942. 8 Claims. (Cl. 220—6.)



1. A foldable box comprising open framework sides hingedly connected together, and lattice wall panels adapted to be detachably secured to the frame-work sides, said lattice wall panels each comprising a series of overlapping slats pivotally connected whereby the structure may be folded together.

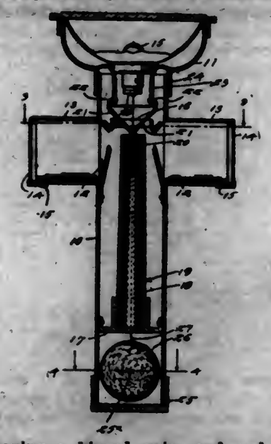
1,755,471. FEATHER RENOVATOR. CLANCY R. CURTIS, St. Paul, Minn., assignor of one-half to Charles E. Bruns, St. Paul, Minn. Filed Jan. 25, 1929. Serial No. 335,021. 4 Claims. (Cl. 209—2.)



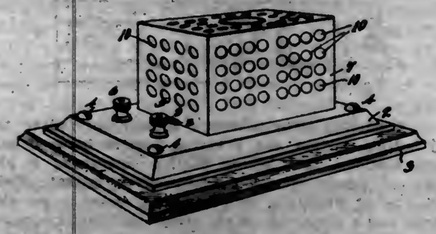
1. A feather renovating device comprising a power blower, a drum mounted in an upright plane, a perimetral duct in said drum and a tangential extension thereof communicating with said blower, said perimetral duct provided with outlet means from the center of the drum, and said blower arranged to receive and project feathers to be renovated into said perimetral duct by air pressure and from said duct into the central part of the drum, elevated outlet means from said central part of the drum comprising a settling duct directed outwardly and downwardly therefrom, a means for reducing the air current at said drum outlet, said settling duct adapted to receive the feathers in semi-suspension and guide means therein to guide heavier matter to the bottom part of it and further to guide the feathers beyond said bottom part to a discharge means.

1,755,472. ELECTRICAL FLASH LIGHT. JOSEPH J. DARLINGTON, Winston-Salem, N. C. Filed Aug. 7, 1928. Serial No. 297,992. 6 Claims. (Cl. 240—10.5.)

1. In a flash light, a barrel, a reflector removably threaded upon one end of the barrel, an illuminating element carried by the reflector, and a telescopic support for the reflector permitting rotation thereof to engage or disengage the same with respect to the barrel, said support collapsing into the barrel, said barrel having radially extending castings projecting outwardly therefrom, said castings each having a hinged outer end and constituting receptacles for battery units to energize said illuminating element.

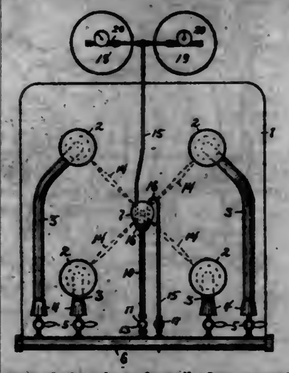


1,755,473. AUTOMATIC FIRE ALARM. PETER F. DODUNSKI, Solon, Ohio. Filed July 9, 1927. Serial No. 204,602. 5 Claims. (Cl. 200—140.)



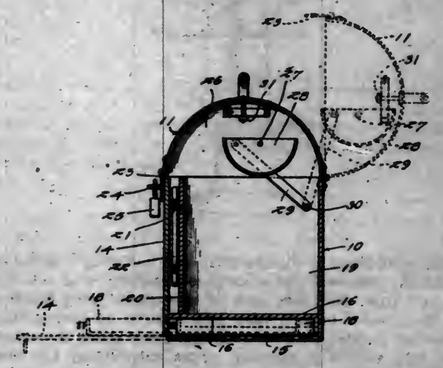
1. In an automatic fire alarm instrument, a calibrating adjustment comprising a lever bent back on itself to form an angular bell crank, means to adjust said angularity consisting of a threaded stud secured to one arm of said bell crank and passing through an opening in the second arm of said bell crank and adjusting nuts on said stud on opposite sides of said second arm.

1,755,474. GAS STOVE. JESSE M. DUNGAN, Fort Wayne, Ind. Filed Feb. 14, 1927. Serial No. 167,982. 1 Claim. (Cl. 158—53.)



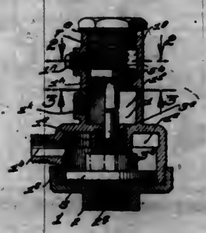
In apparatus of the class described, a gas stove having a series of burners spaced apart; a pilot lamp; a manifold pipe having independent connections respectively with said burners and lamp; a perforated shell disposed over said lamp; a supply pipe extending through said shell over said lamp and connected to said manifold; a source supplying hydrocarbon fuel to said supply pipe under pressure; and valves controlling the corresponding connections between said manifold and burners, said pipe being heated constantly by said lamp whereby the flame of said lamp is continuously maintained during operation of the burners and after all the valves for said burners are closed and the burners extinguished.

1,755,475. TOOL BOX. CHARLES R. FAIRLEIGH, Liberal, Kans. Filed Apr. 30, 1927, Serial No. 187,918. Renewed Aug. 17, 1929. 2 Claims. (Cl. 206—16.)



1. A tool box comprising a box having a cover hinged thereto, a pivoted tray carried by the cover and having an open top and a single link limiting the opening movement of the cover and maintaining the open top of the tray upwardly disposed as the cover is moved from open to closed positions.

1,755,476. AUTOMATIC WATER-HEATER CONTROL-VALVE APPARATUS. JOHN C. HIGGINS, San Diego, Calif. Filed Feb. 28, 1928. Serial No. 257,685. 9 Claims. (Cl. 236—25.)

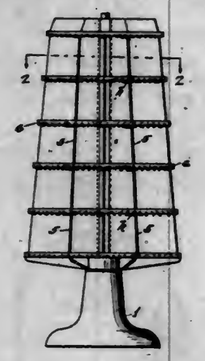


1. In a valve apparatus of the class described, a housing, a pair of superposed chambers formed therein and separated by a single integral partition, a fluid valve plunger mounted in the one of said chambers, a gas valve plunger mounted in the other of said chambers, and a separable stem extending between said fluid valve plunger and said gas valve plunger for operating said gas valve plunger simultaneously with said fluid valve plunger.

1,755,477. DISPLAY REVOLVING STAND. JOSEPH HUNYADY, Mount Lebanon, Pa. Filed Nov. 18, 1926. Serial No. 149,046. 1 Claim. (Cl. 211—131.)

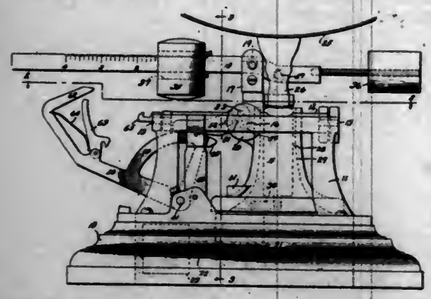
A rotatable display rack, comprising a stand having a recess in its upper end thereof in which an anti-friction

bearing is seated, and having a central vertically disposed socket therein, a shaft rotatably seated in said socket, one portion of the anti-friction bearing being secured to said shaft whereby the said shaft is held against lateral movement and wear thereof is prevented, a member rigidly mounted on said shaft, a tube surrounding said shaft approximately the entire length thereof and rigidly secured thereto, the said tube having series of vertically disposed grooves, in combination with a frame substan-



tially cylindrical in configuration and including a series of vertically disposed plates arranged radially with relation to said tube, the inner ends of said plates being inserted in the grooves in said tube, and a series of horizontally disposed circular platforms arranged one above the other, the said vertically disposed plates subdividing the said platforms into series of compartments for the reception of small merchandise.

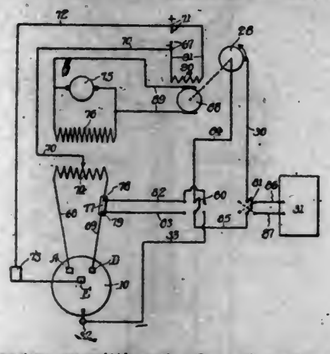
1,755,478. SCALE. LOUIS JAENICHEN, Springfield Township, Oakland County, Mich., assignor to The Standard Computing Scale Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 19, 1927. Serial No. 220,348. 9 Claims. (Cl. 205—49.)



1. A weighing scale comprising a scale beam, pan and sliding weight constituting a weighing unit, a frame upon which said unit is mounted so as to swing freely in any direction, and means to lock said unit in any position assumed thereby.

1,755,479. METHOD OF AND MEANS FOR CYCLIC CURRENT CONTROL. W. BARTLETT JONES, Chicago, Ill. Filed Apr. 28, 1924. Serial No. 709,350. 51 Claims. (Cl. 204—1.)

3. A system for using current comprising, in combination, a conducting medium, an electrode in said medium, means to supply continuous current through said electrode, other electrodes in said medium, means to produce a cyclic current through each of said other electrodes, said means in combination with said other electrodes being an



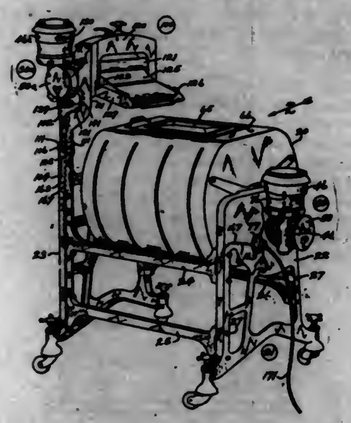
electrode system permitting the flow of continuous current through the first electrode, and measuring means associated with said system to determine electrical values at any point in the cycle.

1,755,480. ROAD PARTING STRIP. ANDREW A. KRAMER, Kansas City, Mo. Filed Nov. 14, 1927. Serial No. 238,179. 13 Claims. (Cl. 94—17.)



12. A parting strip having a substantially plane top and bottom portion and a keying portion between said plane portions, said keying portion comprising a plurality of closely spaced concavo-convex lateral offsets curved in all directions, each forming a socket on one side thereof and a projection on the other side thereof opposite said socket, said offsets alternating to provide alternate projections and socket portions on both sides of said strip.

1,755,481. DOMESTIC APPLIANCE. RALPH L. LEE, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 31, 1923. Serial No. 629,200. 10 Claims. (Cl. 68—32.)

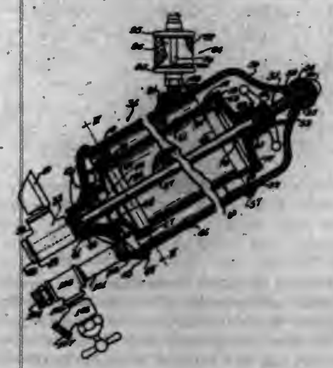


1. A laundry machine, comprising in combination a support; a wringer unit mounted to swing relative to the

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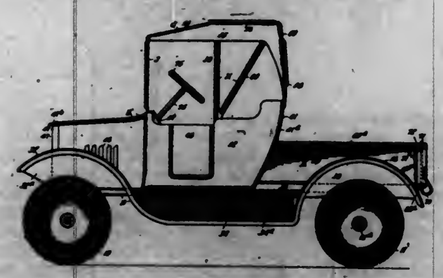
support into a plurality of operating positions; means for yieldingly maintaining said wringer in operative position, means for transmitting power to the wringer unit; and means operated by merely swinging the unit for automatically interrupting the transmission of power to the unit.

1,755,482. FILTER. FRANK B. LOMAX, Chicago, Ill. Filed Nov. 21, 1927. Serial No. 234,658. 15 Claims. (Cl. 210—178.)



1. In combination, a filter container, a cylindrical filtering barrier in said container, means for supporting said container in a rigid slanting position, an inlet connected to the lower end of the container, an outlet connected to the lower end of the container, and means for forcing liquid through said inlet and through the wall of said barrier into said container, said filtered liquid entering the container being free to gravitate into said outlet.

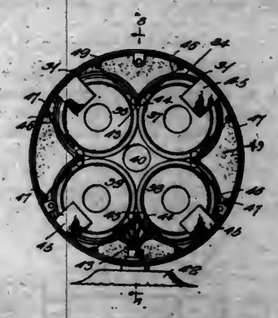
1,755,483. VEHICLE TOY. FRED A. LUNDAHL, Moline, Ill. Filed Jan. 8, 1923, Serial No. 611,224. Renewed Sept. 9, 1929. 25 Claims. (Cl. 46—48.)



1. In a toy vehicle having front and rear axles and front and rear pairs of wheels, the combination with a suitable frame and body; of front and rear sheet metal axle housings, each housing having also formed integrally therewith, upwardly extending stamped sections corresponding to front and rear transversely disposed semi-elliptic spring suspensions and on which suspensions, sections of the vehicle frame are adapted to be supported.

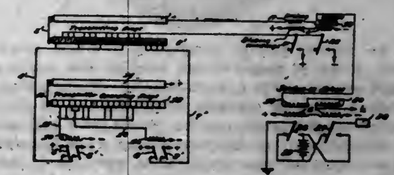
1,755,484. SPEECH AMPLIFYING AND REPRODUCING SYSTEM. LE ROY MARK, Washington, D. C. Filed July 16, 1927. Serial No. 206,641. 3 Claims. (Cl. 179—1.)

1. Microphonic pick-up apparatus comprising a frame, a casing within said frame, a plurality of sockets disposed in said casing in planes laterally off set one from the other, said sockets being arranged to receive and enclose independent microphones, at least one of said microphones being off set from a source of sound by a distance greater



than the others of said microphones and spring members grouped in pairs with the pairs of each group extending substantially at right angles to each other between diametrically opposite positions on said casing and positions on the interior of said frame.

1,755,485. MULTICHANNEL TELEGRAPH CABLE SYSTEM. CRESCENT F. NELSON, New Dorp, N. Y., assignor to The Western Union Telegraph Company, New York, N. Y., a Corporation of New York. Filed Aug. 2, 1927. Serial No. 210,148. 20 Claims. (Cl. 178—52.)



1. A multi-channel telegraph system comprising a telegraph line or cable connecting two remote stations, the amount of signaling traffic in one channel being different from that in the other channel in the same direction, and means for apportioning said telegraph line to each of said channels for periods of time proportional to the traffic in said channels.

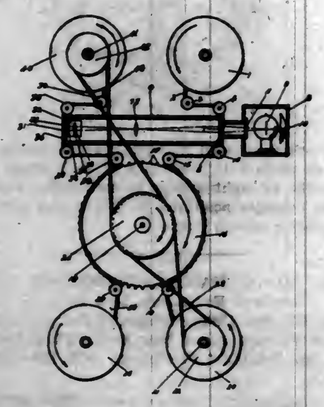
1,755,486. WRENCH. ROSS H. ODELL, Bakersfield, Calif. Filed July 22, 1929. Serial No. 380,013. 3 Claims. (Cl. 81—59.)



1. A wrench comprising a jaw head, a ratchet device having a rack on the jaw head provided with reversely disposed teeth, a pawl member, a lever movable on the jaw head to occupy either of two extreme positions, said pawl member being pivoted on the lever to occupy a neutral position and either of two extreme positions, said pawl member having two teeth one for each set of rack teeth adapted to engage the latter according as the pawl member is moved to one extreme position or the other, yield-

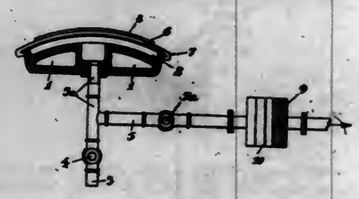
able means for maintaining the pawl member in a neutral position, and a lug on the jaw head, the pawl member having surfaces coacting with the lug to move either pawl teeth into engagement with its respective rack teeth according as the lever is moved to one extreme position or the other.

1,755,487. OPTICAL PRINTER. FREEMAN H. OWENS, New York, N. Y., assignor to Owens Development Corporation, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1926. Serial No. 147,981. 8 Claims. (Cl. 88—24.)



1. An optical printer comprising a single means for moving strips of negative and positive film continuously in fixed spaced relation to each other at one point, such movement being in opposite directions and at the same speed, means for projecting the images from said negative film to said positive film comprising a casing over the ends of which said film strips move, openings in the ends of said casing, a light source adjacent the end over which said negative film moves, for illuminating the images of said film as it moves past the opening in said end, a lens in said casing through which said images pass, and an elongated slit in said casing adjacent the end over which the positive film passes, said slit comprising an angle bracket adjustably secured to one side of said casing and having an arm provided with a slit extending over the opening in the ends of the casing, whereby said slit may be adjusted with respect to said positive film moving thereover.

1,755,488. AIR-DRYING MECHANISM FOR GARMENT PRESSES. GUNTHER PARISOT, Stockholm, Sweden. Filed Sept. 22, 1928, Serial No. 307,762, and in Germany Sept. 30, 1927. 1 Claim. (Cl. 68—9.)



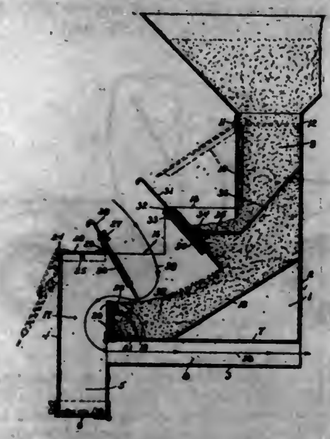
A pressing machine including a lower body formed to provide a heat chamber, a foraminous cover for said chamber, a steam pipe leading into said chamber, and a pipe for delivering heated air under pressure opening into the steam pipe below the chamber, a cut-off in the steam pipe arranged beyond the juncture of the air pipe with the steam pipe relative to the pressing machine and a cut-off in the air pipe beyond the juncture of the air and steam pipes whereby the heated air, when admitted, initially forces the steam in the steam pipe into the heat chamber and through the perforated cover and thereafter delivers heated air through such perforated cover.

1,755,489. SELF-DRILLING EXPANSION SHELL. JOHN H. PHILLIPS, Chicago, Ill. Filed Nov. 24, 1924. Serial No. 751,895. 1 Claim. (Cl. 85—2.4.)



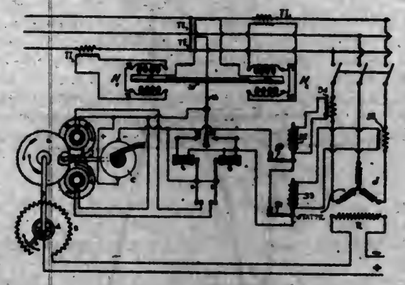
In a combined drill and expansible shell, a tubular body provided with cutting teeth at one end and weakened from a point spaced from but adjacent thereto to a point intermediate the ends, the opposite end being regularly formed on its exterior and of a reduced internal circumference and constructed to operatively non-rotatably engage a suitable chuck during the drilling operation and closely fit a hanger bolt thereafter projected into the shell.

1,755,490. AUTOMATIC FEEDER FOR MILLS. WILLIAM ALEXANDER SEYMOUR, Leavenworth, Kans., assignor to The Hesse Manufacturing Company, Incorporated, Leavenworth, Kans. Filed July 16, 1928. Serial No. 293,011. 27 Claims. (Cl. 209—137.)



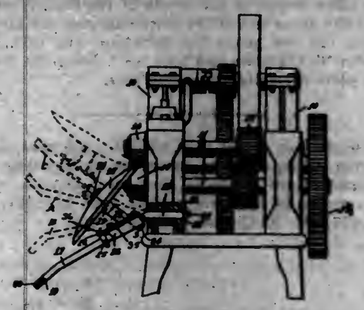
1. An automatic feeder comprising a casing having an entrance throat, a feeding chamber to one side of said entrance throat, and a discharge passage; means within the chamber for maintaining a definite level of material therein, said level-maintaining means including a level-defining means and means for preventing overflow of material to said defining means, and means for directing an air current through the feeding chamber over the material therein thereby to convey material from the feeding chamber through the discharge passage.

1,755,491. AUTOMATIC REGULATOR FOR POWER-FACTOR IMPROVING APPARATUS. VINCENZO FAUSTO SPIGAI, La Spezia, Italy. Filed July 22, 1924, Serial No. 727,584, and in Italy July 30, 1923. 3 Claims. (Cl. 172—246.)



1. An apparatus for the regulation of the power factor in a polyphase net, comprising a pair of contacts, a movable contact means for making contact with one or the other of said first mentioned contacts, means for actuating said movable contact, comprising an electrodynamometer, said electrodynamometer comprising a pair of movable current coils, and a movable voltage coil, means for controlling the torque on said voltage coil, means for transmitting the movement of said voltage coil to said movable contact means.

1,755,492. DISK SHARPENER. CHRISTOPHER W. SKOW, Newton, Iowa. Filed Jan. 10, 1928. Serial No. 245,711. 1 Claim. (Cl. 76—69.2.)



A disk sharpener comprising a supporting frame having a socket, a pair of rollers adapted to bevel the annular edge of a disk to sharpen the same, a saddle bar supported in a common plane with the axis of said rollers and projecting beyond the ends of said rollers, either end of said saddle bar being designed to fit said socket and to be retained against rotation therein, the ends of said saddle bar being bent to form angular portions on the same side of the bar and of different angularity, a saddle slidably mounted on the central portion of said bar, a saddle plate pivotally mounted to said saddle having an upwardly and slightly inclined hub, and means carried by said hub for supporting a disk in operative relation with said rollers, said means comprising a head pivotally mounted in said upright support and provided with radial arms for engaging the under surface of a disk, a bolt for passing through the central opening of a disk and into the end of said head for anchoring the disk thereto.

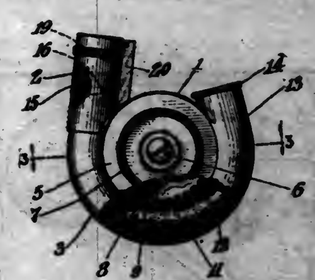
1,755,493. MILK-BOTTLE CAP. PHILLIP L. STORM, Belvidere, Ill., assignor to Mid-West Bottle Cap Co., Belvidere, Ill., a Corporation of Illinois. Filed Oct. 22, 1928. Serial No. 314,152. 6 Claims. (Cl. 215—38.)

1. A milk bottle cap comprising a disc of sheet fibrous material having a central body portion designed to fit snugly in the throat of a milk bottle and having an annular rim of inverted U-shape, the inner wall of said rim being free of any extraneous fold, and the outer wall of said rim providing a stiff surface for engagement by the feed shuttle



of a capping machine and being designed to be displaced approximately 90° by the capping operation and to be held down against the top of the bottle in sealing contact therewith by the tension of the fibres of the resultant inner wall of the rim.

1,755,494. LIGHTER. LOUIS V. ARONSON, Newark, N. J., assignor to Art Metal Works, Inc., a Corporation of New Jersey. Filed Sept. 16, 1927. Serial No. 219,885. 4 Claims. (Cl. 67—7.1.)



1. In a lighter, the combination of means for slidably holding a wick with its longitudinal axis in curved position, rotatable feed means coaxially arranged with said curved wick and provided with means for engaging said wick along a curved path to feed said wick forward, and means for igniting said wick, a part of said last named means being carried by and necessarily detachable from said first named means before ignition may be effected.

1,755,495. GUARD CAGE. EDWARD A. BAKER, Mansfield, Ohio. Filed Dec. 12, 1928. Serial No. 325,569. 7 Claims. (Cl. 39—36.)



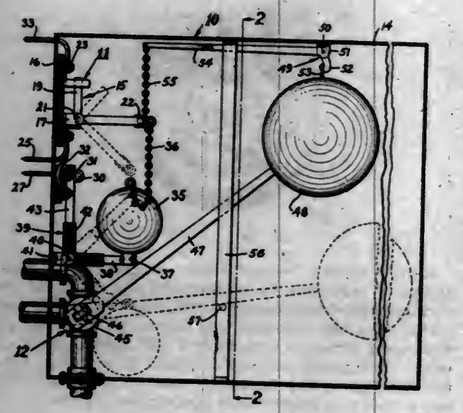
4. In a guard cage, comprising a circular, a tapered, and an intervening member provided with openings all associated together, the lower tapered member being provided with a closure member having a plurality of apertures therein, an imperforate member fitted within the bottom of the tapered member adjacent to the apertures

in the closure member and smaller than the interior of the tapered member to provide a space therebetween and slidable members adapted to slide over the openings in the intervening member.

1,755,496. PROCESS OF PREPARING SILICEOUS MATERIALS. ABRAHAM SIDNEY BEHRMAN, Chicago, Ill., assignor, by mesne assignments, to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1925. Serial No. 46,890. 14 Claims. (Cl. 23—113.)

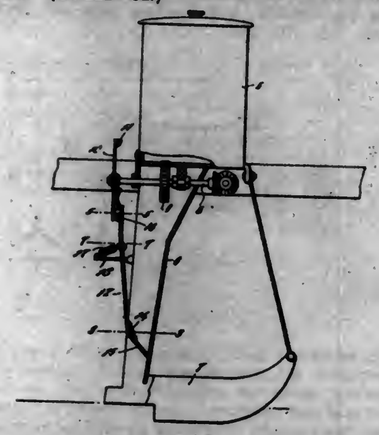
11. A process of preparing siliceous materials which comprises forming a colloidal solution of silicic acid in an acid medium and then neutralizing.

1,755,497. AUTOMATIC GAS AND ELECTRICITY CONTROLLING DEVICE. JACOB L. BLALACK, Los Angeles, Calif. Filed Aug. 8, 1927. Serial No. 211,417. 7 Claims. (Cl. 200—85.)



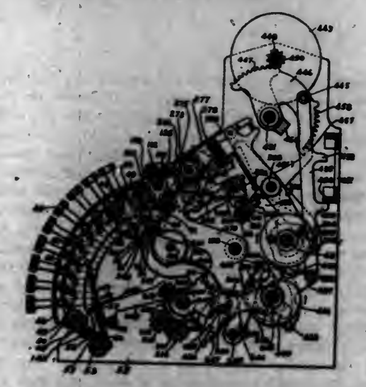
6. In a device of the class described, a housing, a switch mounted in and insulated from said housing, a pivoted rocker arm mounted in and insulated from said housing, said rocker arm including a substantially horizontal arm and a substantially vertical arm, a fusible bar for retaining said vertical arm in position, a bracket adjacent each end of said bar and supporting said bar, said brackets being insulated from said housing, a wire attached to one of said brackets, another wire connecting the other of said brackets to one side of said switch, a seat on one arm of said rocker arm, a weight connected to said switch and normally positioned on said rocker arm seat, said weight being adapted to be unseated by earthquake tremors or by fire causing melting of said fusible rod to actuate said switch to break the circuit therethrough, a shut-off valve, said shut-off valve including an inlet, an outlet, a by-pass outlet and a core, a passage in said core adapted in one position of said core to form a passageway from said inlet to said outlet, another passage in said core adapted when said core is in another position to form a passageway from said outlet to said by-pass outlet, said first passage being adapted when said second passage is in full communication with said outlet and said by-pass outlet to be completely out of communication with said inlet and said outlet, and said second passage being adapted when said first passage is in full communication with said inlet and said outlet to be completely out of communication with said outlet and said by-pass outlet and means operated by said weight when released for actuating said cut-off valve.

1,755,498. HILL DROPPER. FRANK J. BOSS, Edinburg, Tex. Filed June 21, 1928. Serial No. 287,124. 1 Claim. (Cl. 111—51.)



A planter attachment of the class described wherein the planter includes a seed box with a boot projecting downwardly therefrom and a shaft with means thereon for delivering the seed from the seed box to the boot; comprising a disc on the shaft having portions of its body struck therefrom out of the plane of one side face thereof to form hands, an elongated trigger plate of angular construction pivotally mounted in the boot, so that the lower portion of the plate crosses the boot and the other portion of the plate extending the length of the boot, a roller carried by the upper end of the plate engaging one face of the disc and the cam projecting therefrom, and spring means connected to the plate and boot for holding the lower end of the plate normally across the boot.

1,755,499. CASH REGISTER. THOMAS CARROLL, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed June 13, 1921. Serial No. 477,138. 26 Claims. (Cl. 235—3.)

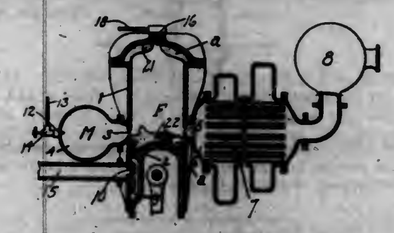


1. In a machine of the class described, the combination of pivoted members complementarily and differentially movable in opposite directions, manipulative devices for controlling said members, operating means for moving said members to a position controlled by one of the manipulative devices and returning them again to normal position, a totaliser, a pair of totaliser actuators positively operated by said members, and means for connecting either actuator to the totaliser for operation.

1,755,500. BATTERY-BOX-CONTAINER COMPOSITION AND METHOD OF MAKING SAME. RUFUS N. CHAMBERLAIN, Depew, N. Y., assignor to Gould Storage Battery Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 25, 1925. Serial No. 58,555. 8 Claims. (Cl. 106—2.)

8. A storage battery box molded of a composition comprising petroleum asphalt, gilsonite, a fibrous binder and an inert filler, the said constituent materials thereof being united to form a blend including such relative proportions of said materials as to produce a hard yet tough, homogeneous, substantially non-cellular mass which is resistant both to physical shocks and to attack by storage battery acid.

1,755,501. INTERNAL-COMBUSTION ENGINE. NIELS C. CHRISTENSEN, Salt Lake City, Utah. Filed May 12, 1926. Serial No. 108,640. 17 Claims. (Cl. 123—1.)

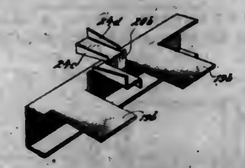


13. In internal combustion engines in which the fuel is injected into the combustion gas after high compression of the latter, the combination of a heat-insulating lining of the compression space together with means for limiting the supply of the combustion gas in each cycle to a regulated fraction, substantially less than one, of a full cylinder, measured at atmospheric pressure, and means for compressing said combustion gas to a high pressure previous to injection of the fuel, substantially as described.

1,755,502. HYDRAULIC CEMENT AND OTHER CALCAREOUS PLASTICS. WILLIAM ARTHUR COLLINGS, Los Angeles, Calif., assignor to Silica Products Co., Los Angeles, Calif., a Corporation of Delaware. Filed Nov. 17, 1927. Serial No. 234,043. 9 Claims. (Cl. 106—35.)

1. As a composition of matter, Portland cement containing bentonite having an alkali-halogen content in excess of that of untreated natural bentonite.

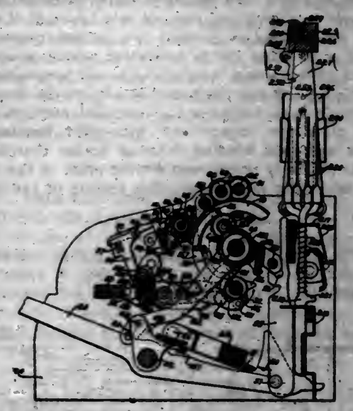
1,755,503. STUD OR THE LIKE. CORNELIUS COLLINS, Los Angeles, Calif. Filed June 26, 1928. Serial No. 288,374. 9 Claims. (Cl. 72—118.)



2. A wall or ceiling frame member comprising a bracket shaped bar having a leg, finger wings extending from said leg, bendable fingers on said finger wings having lateral flanges flaring to a greater width toward the tips.

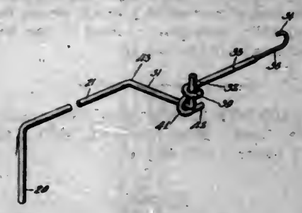
1,755,504. CASH REGISTER. MAXIMILIAN M. GOLDBERG, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Jan. 5, 1922. Serial No. 527,265. 16 Claims. (Cl. 235—2.)

1. In a machine of the class described, the combination of a type carrier, a plurality of groups of keys for adjusting the type carrier common thereto, means whereby each operation of each key of one group effects the same adjustment



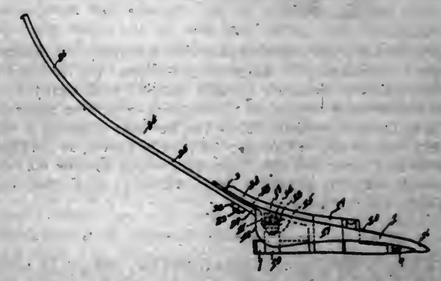
of the type carrier as every other key in the same group, and means whereby the operation of the keys of the other group effects a differential adjustment of said type carrier.

1,755,505. CAR-UNCOUPLING DEVICE. FRANCIS A. JACOBS, Warren, Ohio, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware. Filed May 31, 1928. Serial No. 642,392. 11 Claims. (Cl. 213—169.)



9. An uncoupling device, comprising, in combination: an operating rod; a lifting rod detachably connected to said operating rod; integral means on one of said rods providing a pintle; integral means on the other of said rods curled to form an eye for receiving said pintle, and integral means on one of said rods forming a stop, for preventing accidental disconnection of the rods.

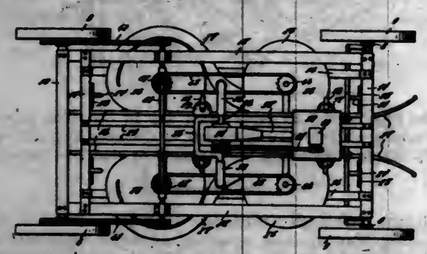
1,755,506. DIVIDER FOR MOWING MACHINES. WILLIAM C. JACKSON, Wapato, Wash. Filed Jan. 21, 1928. Serial No. 248,309. 2 Claims. (Cl. 56—314.)



1. In a divider, the combination with a dividing shoe having an outwardly projecting top rib, terminating in a shoulder, a projecting housing positioned beneath said rib,

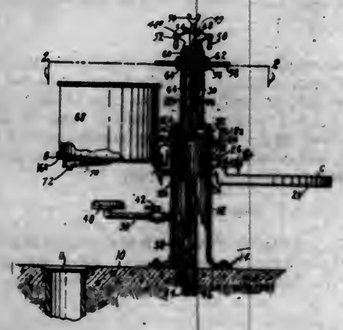
and an inwardly curved extended portion forming the rear end of said shoe, and adapted normally to receive pivotally a divider board, and having the pivotal mounting positioned rearwardly of said rib and said housing, of a dividing rod terminating at one end in a lateral inward curvature and at its other end in a securing means consisting of a slotted plate formed integral with and perpendicular to said dividing rod, and positioned to engage the shoulder of said top rib, and having a lug extended forward of said slotted plate for engagement with said housing, said shoulder and said housing forming braces therefor, and means to pivotally secure said slotted plate to the original pivotal mounting of said extended portion of the shoe.

1,755,507. COTTON-PICKER MACHINE. HENRY A. JANACEK, La Grange, Tex. Filed Dec. 8, 1928. Serial No. 324,740. 8 Claims. (Cl. 56—14.)



1. In a cotton picking machine of the class described, a wheeled frame, a pair of guide frames longitudinally of the wheeled frame, means for supporting the guide frames and to permit lateral movement thereof, means for moving the frames laterally, casings supported by the frames and cotton picking means in the casing.

1,755,508. LAUNDRY APPLIANCE. WILLIAM E. KERR, Des Moines, Iowa. Filed June 11, 1927. Serial No. 198,223. 1 Claim. (Cl. 68—35.)



In a laundry appliance of the class described, an upright support, a plurality of supporting devices each independently rotatably mounted on said support and adapted to be independently swung on the support, a burner mounted on said upright support below the devices, whereby a tub on any supporting device may be readily moved to position above the burner and the other supporting devices may be moved to different positions with relation to each other and the one over the burner.

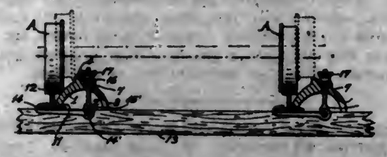
1,755,509. PENCIL AND SHARPENER. BRUNO D. LEVI, New York, N. Y. Filed Feb. 12, 1929. Serial No. 339,903. 7 Claims. (Cl. 120—87.)

1. In a device of the class described, a pencil, comprising a lower barrel having a tube centrally mounted therein, a clutch member engaging the said tube and cooperating with a detachable top-section, the latter being provided with a reduced portion at its lower end and



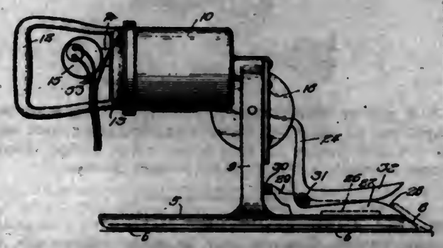
formed with a conical top portion, a bore disposed in the said top section and abrasive means arranged in the latter for the purpose of sharpening the lead.

1,755,510. RERAILING DEVICE. OCTAVIO ENRIQUE MESEGUER LOPEZ, Caibarien, Cuba. Filed Apr. 12, 1928, Serial No. 269,792, and in Cuba Apr. 3, 1928. 5 Claims. (Cl. 104—265.)



1. A rerailing device including a body provided with a wheel guiding upper surface and having one longitudinal edge adapted to overlie one side of the base of a rail, an anchoring member having one terminal hook to embrace the opposite side of the base flange of a rail and including a shank portion adapted to facially abut the under side of a rail base, and means passing upwardly through the body and connected with the anchoring member for drawing the body firmly against a rail base.

1,755,511. POWER SHEARS. FRANK A. MILLER, Aurora, Ill. Filed May 28, 1928. Serial No. 281,166. 5 Claims. (Cl. 164—74.)

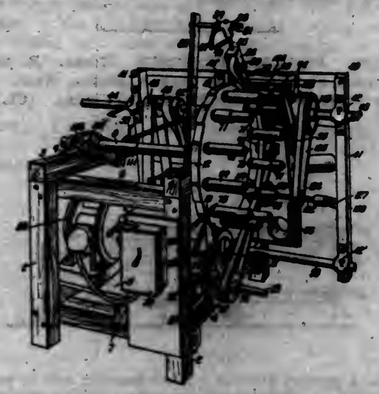


1. In a power shears, a movable base, shears opening at the front end of the base, a central support extending upwardly from the base, a motor casing and a motor mounted at the upper end of the support, means forming an operating connection between one end of the motor and the shears, a handle extending rearwardly from the free end of the motor casing having a central opening therein, and a motor rheostat mounted on the casing and having an operable spring pressed member located within the opening of the handle for manual engagement by the hand of an operator without disengaging the hand from the handle.

1,755,512. PRODUCTION OF AMPHOTERIC HYDRATED OXIDES OF METALS BY HYDROLYSIS. REGINALD HILL MONK, Montreal, Quebec, Canada, assignor of one-half to John Irwin, Montreal, Quebec, Canada. Filed Feb. 18, 1929. Serial No. 341,034. 5 Claims. (Cl. 23—22.)

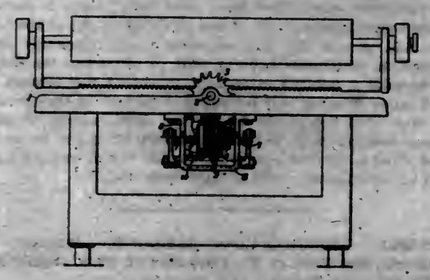
1. In the manufacture of amphoteric hydrated oxides of metals by hydrolysis, the improvement which consists in adding to a solution of a salt of the metal to be hydrolyzed a small amount of an oxide of the metal previously prepared in a manner other than by hydrolysis for the purpose set forth.

1,755,513. TUBULAR-BOX FORMER. EDWIN H. NEWTON and FRANK GREEN, Kansas City, Mo., assignors to National Paper Box Co., Kansas City, Mo., a Corporation of Missouri. Filed Sept. 8, 1927. Serial No. 218,210. 15 Claims. (Cl. 93—36.)



10. A machine for producing peripheral recesses in bodies, comprising rotatable means supporting the bodies, spindles fixed on said rotatable means and rotatably carrying the bodies, means for rotating the bodies, and rotatable recess-producing elements having axes in a plane with the axes of the spindles and of said rotatable supporting means.

1,755,514. TYPEWRITER-ESCAPEMENT MECHANISM. CLIFTON K. RAINEY, Knoxville, Tenn. Filed July 19, 1927. Serial No. 206,913. 15 Claims. (Cl. 197—82.)

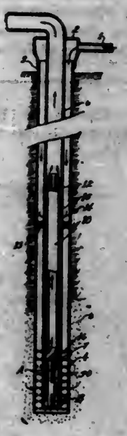


1. In a spacing mechanism for typewriting and like machines, an escapement wheel, an intermittently operable spacing wheel mounted to rotate on an axis arranged transversely of the machine, dogs slidable transversely of the face of the spacing wheel and adapted to be successively brought by the rotation of the spacing wheel into and out of the path of successive teeth of the escapement wheel and to be shifted by the teeth of the latter laterally on said spacing wheel to stop position, and means for maintaining said dogs in initial position and releasing them for shifting motion to stop position and thereafter returning them to initial position.

1,755,515. PROCESS FOR THE MANUFACTURE OF A COMPOUND OF ISONAPHTHYRIDIN. CURT RATH, Berlin, Germany. Filed Nov. 10, 1926, Serial No. 147,608, and in Austria Oct. 17, 1925. 4 Claims. (Cl. 260—42.)

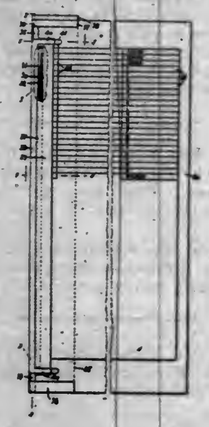
4. A process for the manufacture of isonaphthyridin which consists in treating α-chloro-β-aminopyridin with glycerin and sulfuric acid in presence of oxidizing agents.

1,755,516. OIL PUMP. EDWARD PETER REYNOLDS, Anaheim, Calif. Filed Oct. 24, 1927. Serial No. 228,394. 6 Claims. (Cl. 103—57.)



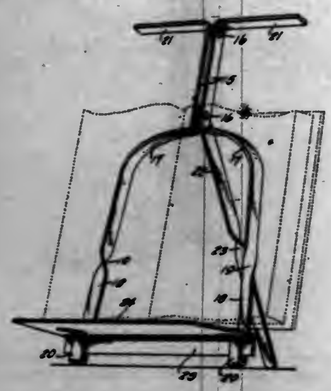
1. In a pumping apparatus of the class described, a well casing closed at its upper end, a pipe string rising within said well casing and extending outwardly of the upper closed end thereof, an oil discharge pipe rising within the lower end of said pipe string and opening at its upper end into the same, a packing surrounding said oil discharge pipe adjacent its upper end, a second packing surrounding said pipe string in a plane below said first named packing and below an opening establishing communication between said well casing and the pipe string at a point between the said packings, a fluid pressure motor and pump unit carried at the lower end of said pipe string and arranged in communication therewith and the lower end of the said oil discharge pipe, and means for introducing a fluid into said well casing above the packing therein, said fluid being adapted to pass from said well casing into and downwardly of said pipe string about said oil discharge pipe to said unit to effect the operation of the latter whereby oil will be pumped from the lower end of said well casing upwardly through said pump and from thence to and through said discharge pipe and said pipe string.

1,755,517. INDEX SHEET AND BINDING MEANS THEREFOR. LYNUS CLYDE REYNOLDS, Sweetwater, Tenn. Filed May 28, 1926. Serial No. 112,367. 15 Claims. (Cl. 129—85.)



12. An index device of the character described comprising binding means having a channel, overlapping sheets having nested folded portions movable into said channel, and means for limiting the movement of said sheets when the nested folded portions are withdrawn from said channel.

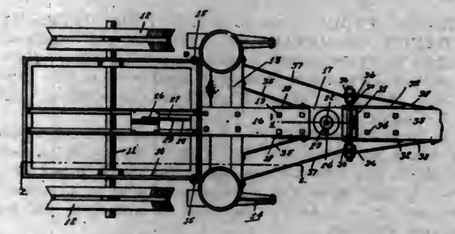
1,755,518. EASEL. EDWARD M. ROBERTS, Long Beach, Calif. Filed July 3, 1928. Serial No. 290,069. 4 Claims. (Cl. 40—146.)



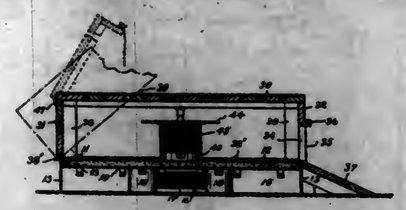
1. An easel comprising two strips of material having linear portions secured to each other, reversely curved portions extending from the linear portions, flat diverging portions at right angles to the curved portions, the free ends of the diverging portions terminating in brackets having extensions outwardly projecting from the diverging portions, a supporting leg pivoted between the linear portions and frictionally embraced by the latter to maintain the leg in any position of adjustment, and a ledge member bridging the brackets and having a lip engaging within the brackets, and a body portion supported on the extensions.

1,755,519. VEHICLE TONGUE. ABRAHAM I. ROORDA, Leighton, Iowa. Filed June 14, 1927. Serial No. 198,780. 2 Claims. (Cl. 278—87.)

1. In a device of the class described, a frame member including a stub tongue, a tongue, means for pivotally connecting said tongue to said stub tongue, said means comprising a plate having forwardly extending pivot lugs and an upwardly extending lug having a vertical opening, means for securing said plate to said stub tongue, a second plate having rearwardly extending pivot lugs for coacting with the first said pivot lugs, means for securing said second plate to said tongue, a pivot member extending through said pivot lugs having each of its outer ends provided with a threaded portion, each of the outer ends being provided with a pair of brace members, one set of the corresponding brace members being secured to said tongue and the other corresponding set being secured to said frame member, nuts for adjusting the pivot ends of said brace members laterally.



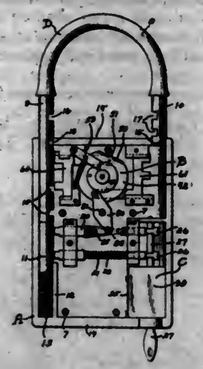
1,755,520. POULTRY BROODER. GEORGE R. SHOUP, Puyallup, and GEORGE E. QUINAN, Seattle, Wash. Filed May 3, 1927. Serial No. 188,503. 2 Claims. (Cl. 119—33.)



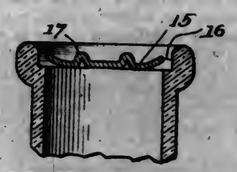
1. In a poultry brooder a lower housing unit embodying a rectangular horizontal sheet metal top plate, having its edges bent upwardly to afford a sand receptacle thereon, side plates secured to said upwardly bent edges and extending downwardly therefrom and co-operating with the top plate in forming a heating receptacle, said side plates having ventilation openings therein, insulator means secured to the lower side of said top plate, electric heating elements supported by said insulator means in slightly spaced relation from said top plate and distributed substantially uniformly throughout the entire area of said top plate, supports for the central portion of said top plate, vent tubes extending upwardly from said top plate and communicating with the heating receptacle therebelow, deflector plates supported above said vent tubes, a rectangular upper housing unit of box like shape open at the bottom and at one side and arranged to be removably supported on said lower housing unit to cooperate therewith in forming a poultry receptacle, means at the corners of said upper housing unit for engagement within the corners of said sand receptacle to prevent displacement of said upper housing unit, a flexible curtain arranged to serve as a closure for the open side of said upper housing unit and an inclined approach to said open side.

1,755,521. PERMUTATION PADLOCK. BERNARD C. SMITH, New York, N. Y. Filed May 21, 1928. Serial No. 279,541. 11 Claims. (Cl. 70—118.)

3. In a lock of the class described the combination of a casing, a shackle including shank portions movable in the casing, combination lock mechanism in the casing including rotatable tumbler discs, dogs slidably mounted in the casing for locking engagement with said shank portions, latch means normally retaining the dogs in engagement with the shank portions and releasable thru operation of the tumbler discs, key actuated lock mechanism in the casing, means operatively connected between the permutation and key lock mechanisms for retracting said dogs thru actuation of the key lock mechanism, and means for normally urging said dogs into locking relation with the shank portions of the shackle.

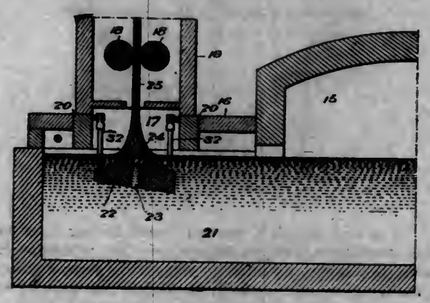


1,755,522. CLOSURE CAP. SAMUEL J. SMYTH, Hawthorne, Calif. Filed July 5, 1927. Serial No. 203,489. 2 Claims. (Cl. 215—51.)



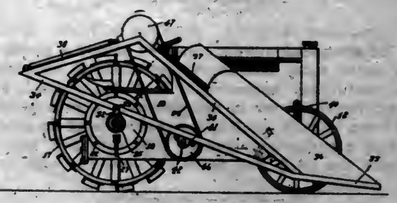
1. A closure cap, comprising a disk-shaped body of a material capable of being flexed and having portions thereof upstruck to provide spaced protuberances to be gripped and pressed together to cause upward flexing of the edges of the body.

1,755,523. APPARATUS AND METHOD FOR DRAWING GLASS. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Filed July 5, 1927. Serial No. 203,488. 17 Claims. (Cl. 49—17.)



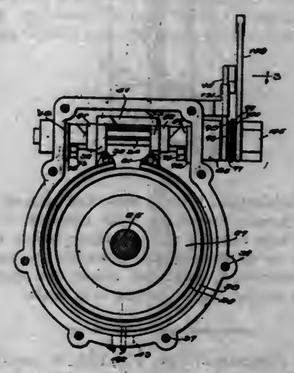
1. An anchoring and temperature controlling slab for use in drawing articles or sheets of glass, comprising an oblong solid body portion adapted for complete submersion in a bath of molten glass and immediately beneath the meniscus of the article or sheet being drawn, said body having a transverse wedge shape and provided with an upper surface convex in both longitudinal and transverse directions.

1,755,524. SUPPORTING AND DRIVING ATTACHMENT FOR TRACTOR-OPERATED CORN HARVESTERS. WILLIAM R. STANFIELD, Union, Iowa. Filed May 31, 1927. Serial No. 195,425. 8 Claims. (Cl. 56—18.)



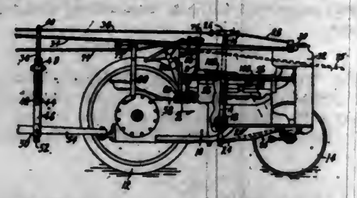
1. In combination, a tractor having an axle housing, an axle for said housing, an auxiliary housing surrounding the axle housing of a length considerably longer than the length of the axle housing, an auxiliary axle carried in said auxiliary housing, means for coupling said auxiliary axle with the tractor axle, and a harvester frame supported adjacent to one side of said tractor and carried by said auxiliary housing.

1,755,525. BRAKE. JOHN W. TATTER, Chicago, Ill., assignor to Lewis Differential Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1927. Serial No. 203,588. 8 Claims. (Cl. 188—196.)



1. Brake mechanism comprising a brake element, a second brake element, a rotatable shaft, means operated by the shaft for bringing said second brake element into and out of effective frictional engagement with the first-mentioned brake element, means rigidly secured to said shaft, a member rotatably mounted on said shaft and engageable with the last-mentioned means to rotate therewith and to be rotated thereby, a spring for holding said member in engagement with said last-mentioned means, a second member rotatably mounted on said shaft and engageable with said last-mentioned means to rotate therewith and to be rotated thereby, a second spring for holding said second member in engagement with said last-mentioned means, spring means for angularly displacing said members relative to each other, a stop carried by one of said members and engageable with the other, a second stop engageable with the first-mentioned member, and mechanism for causing said second member to rotate said last-mentioned means.

1,755,526. DEVICE FOR CONTROLLING TRACTORS FROM A DISTANCE. GUY A. TRAUGER, Alden, Iowa. Filed July 11, 1927. Serial No. 204,786. 4 Claims. (Cl. 180—77.)



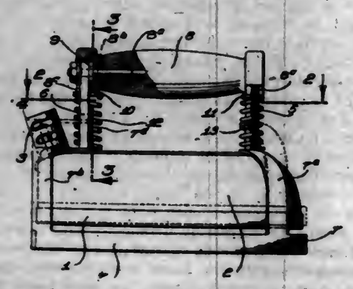
1. In combination with a tractor having a spring actuated clutch pedal thereon, a control device comprising a lever operatively connected to said clutch pedal, a rope for moving said lever in one direction, a latch pivoted to said lever, a latch coacting member mounted on said tractor and a connection between said rope and said latch whereby the latch may be lifted when the rope is taut.

1,755,527. SEPARATOR LOUVER. JAY P. WALKER, Tulsa, Okla., assignor of forty per cent to Guy O. Marchant and six per cent to C. G. Wells, Tulsa, Okla. Filed Mar. 19, 1928. Serial No. 262,955. 8 Claims. (Cl. 183—2.7.)



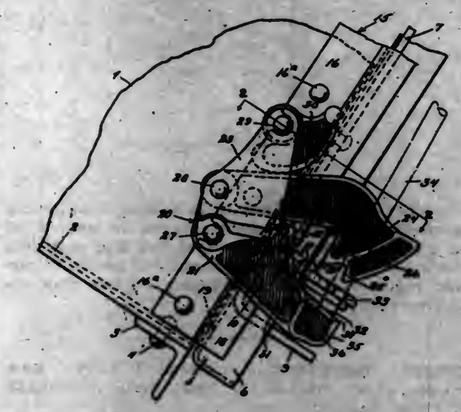
3. The combination with a tank and spaced separator baffle shell therein having an inlet opening, of a louver surrounding said opening and including means for retarding the flow of fluids and the deflecting of liquids from passing therethrough, and also means for directing the influent in a helical course within said baffle.

1,755,528. COMBINATION FLATIRON AND STAND. JOHN H. WILSON, San Diego, Calif. Filed May 2, 1927. Serial No. 188,231. 5 Claims. (Cl. 68—27.)



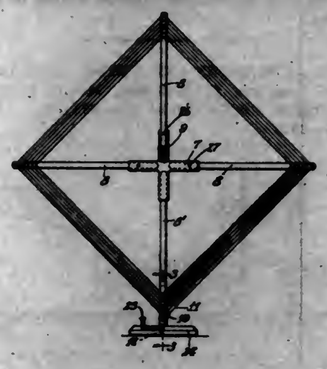
1. In a device of the class described, an electric flatiron body, handle supports on said iron body, a rotatably mounted handle supported between said supports, said handle having catch means rotatable therewith, a stand for said iron slidably mounted on said handle supports, said stand having a foot portion encircling the base of said iron body and conforming to the shape thereof, resilient means adapted to hold said stand in extended position from said handle, and catch means on said stand adapted to be engaged by said handle catch means by rotation of said handle when the stand is moved into retracted position relative to said iron body.

1,755,529. CAR-DOOR DEVICE. WILLIAM E. WINE, Toledo, Ohio. Filed Nov. 16, 1923. Serial No. 675,099. 32 Claims. (Cl. 105—308.)



1. A railway car having a hinged door for closing a discharging opening of a hopper thereof, a pivoted member adapted to releasably maintain said door in closed position, a bracket affixed to the car body and embodying a supporting base for the pivoted member, said bracket having an extension arranged to project beyond the plane of the door when the latter is in closed position constituting means for arresting movement of the door away from its hinge pintles.

1,755,530. PORTABLE LOOP AERIAL. EDWARD F. ANDREWS, Chicago, Ill. Filed Apr. 2, 1923. Serial No. 629,322. 9 Claims. (Cl. 250—33.)

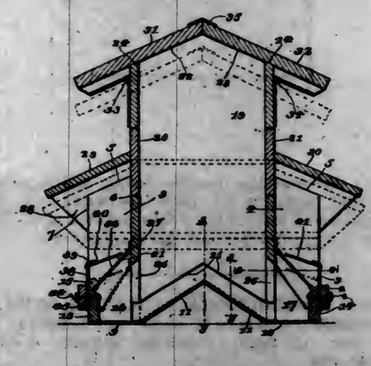


1. In a loop aerial, a central frame having four fixed radially extending sockets therein, one for each supporting arm of the device, aerial wire supporting arms extending outwardly from said sockets, an aerial loop spirally supported upon said arms, and resilient means pressing outwardly upon one or more of said arms to hold the loop under tension and prevent slack therein.

1,755,531. PROCESS FOR THE EXTRACTION OF THE ALBUMINO-CASEINS OF VEGETABLE ORIGIN AND FOR THE SEPARATION OF SUCH ALBUMINO-CASEINS FROM AMYLACEOUS MATTER. HENRI BEAUPOUX, Beauvais, France. Filed Oct. 11, 1926, Serial No. 141,031, and in France Oct. 23, 1925. 2 Claims. (Cl. 99—11.)

1. A process for the manufacture of casein from vegetable substances comprising treating the raw material by an alkali chloride, purifying the product of this first step by the addition of lime, separating the insoluble substances, and coagulating the remaining liquor by treatment with acid, the coagulation being affected to the degree that Ph=5,2.

1,755,532. POULTRY FEEDER. STEPHEN BERNARD and WILLIAM J. GLENN, Holton, Kans. Filed July 22, 1927. Serial No. 207,716. 11 Claims. (Cl. 119—53.)



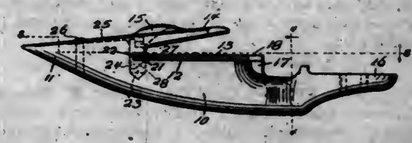
1. A poultry feeder comprising a body section formed with a pair of oppositely disposed feed troughs and vertically extending, opposed, spaced combined hopper retaining and guide members, a hopper section slidably positioned between said members and discharging in said feed troughs, retaining screens hinged to said hopper for positioning upon the feed within the troughs, and a guard device connected to each of the troughs and overlapping said screens.

1,755,533. BACK AND CHEST PROTECTOR. JOSEPH BLACK, Rochester, N. Y. Filed Oct. 29, 1928. Serial No. 315,819. 1 Claim. (Cl. 2—92.)



An all-paper garment including right and left back panels and right and left front panels, strips of tough adhesive tape joining the right front and back panels above and below the armhole formed thereby, strips of tough adhesive tape joining the left front and back panels above and below the armhole formed thereby, a strip of tough adhesive tape connecting the back panels, a binding strip of tough adhesive tape straddling and affixed to all exposed edges of the panel, buttons fastened to one of the front panels close to the free side edge thereof, buttons secured to the other front panel at points remote from the free side edge thereof, and cords attached to the buttons on one of the panels and adapted to be wrapped in engagement with the buttons on the other front panel thereby to hold the front panels in lapped relation and adjustably connected to fit persons of different sizes, the armholes formed between the front and back panels being oversize to permit said adjustment.

1,755,534. MOWER GUARD. LOUIS J. BORKHUIS, Jr., Vayland, S. Dak. Filed Sept. 29, 1928. Serial No. 309,334. 4 Claims. (Cl. 56—298.)



1. A guard finger having both nose and rearwardly extending arm, and having a ledger plate seat beneath said arm and a lug projecting upward from the rear end of said seat, a ledger plate on said seat provided with forwardly extending projections, said guard finger having sockets for said projections at the forward end of the seat, interlocking edge portions on said lug and ledger plate, and a locking bolt disposed in the guard finger for engagement between the projections of the ledger plate for holding the latter against edgewise displacement and against said lug.

1,755,535. ADJUSTABLE CUTTING INSTRUMENT. OTTO M. BRATRUD, Seattle, Wash. Filed July 5, 1927. Serial No. 203,556. 4 Claims. (Cl. 30—9.)

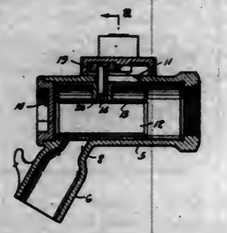


1. A cutting instrument comprising a casing, a holder within the casing, a blade carried by the holder and adapted to project from the casing, a threaded sleeve on the holder, a threaded rod engaging the sleeve, and means rotatable in the casing for actuating the rod to effect an adjustment of the holder through the medium of said sleeve whereby an adjustment of the blade is secured, the holder including a shank having a flat side against which said blade bears, and a pin projecting from the flat side of the shank and engaging the blade for securing the latter to the shank.

1,755,536. VALVE. HAMILTON C. CHASE, Los Angeles, Calif., assignor of one-fourth to Tobias Weber and one-fourth to Harold Roe, Los Angeles, Calif. Filed Oct. 21, 1926. Serial No. 143,039. 4 Claims. (Cl. 251—78.)

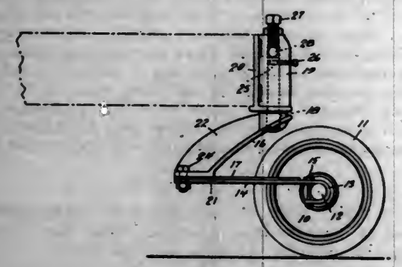
1. In a valve, a body having a bore with an inlet for the supply of fluid thereto at one end and a discharge port in

the side wall of said bore remote from said inlet, an open ended split shell having a chamber freely communicating with said inlet at one of its ends, said shell being disposed



intermediate said inlet and discharge port for sliding movement in said bore with the other end of said shell disposed to traverse said port so as to be moved to cover and uncover said port.

1,755,537. SPRING CASTER. HARRY W. DEISLER, Wellington, Ohio, assignor to The Wellington Machine Company, Wellington, Ohio, a Corporation of Ohio. Filed Dec. 5, 1928. Serial No. 323,990. 10 Claims. (Cl. 16—44.)



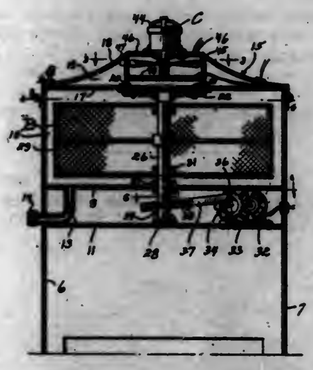
1. The combination with a housing, of a king bolt journaled therein, a bracket connected to the lower end of said king bolt and rotatable therewith, and spring arms fastened to the bracket, and a caster wheel arranged between and carried by the free ends of said spring arms.

1,755,538. MEANS FOR FASTENING ROLL ROOFING TO ROOFS. ALBERT H. DRAUGHON, Jr., Fort Myers, Fla. Filed Apr. 23, 1929. Serial No. 357,476. 1 Claim. (Cl. 108—33.)



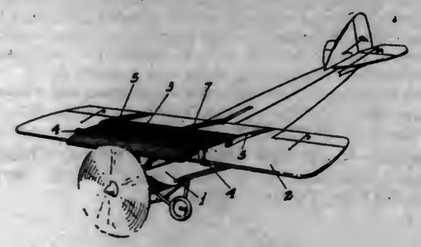
Devices for locking together the upper and lower layers of roofing comprising a metallic strip adapted to extend parallel to the upper edge of a horizontally extending layer of roll roofing, said metallic strip having rows of integral prongs at its upper and lower edges, said prongs being staggered relatively to each other, said strip also having at intervals throughout its length between the rows of prongs nail holes, flat headed nails adapted to pass through the holes and a lower layer of the roofing into the roofing frame, the plane of the surfaces of said prongs being parallel when the prongs are bent upwardly to the edges of the strip, said prongs having sharpened ends adapted to penetrate an upper layer of rolled roofing below its lower edge and bent over to clamp the upper layer of roofing to the strip and to a lower layer of roofing, both rows of prongs penetrating the upper roll of roofing.

1,755,539. COMBINED DISH WASHING AND DRYING MACHINE. CARL N. GEROSA, Rochester, N. Y. Filed Dec. 5, 1927. Serial No. 237,892. 4 Claims. (Cl. 34—26.)



1. In a dish washing machine having a dish receiving compartment, a hollow lid closing the upper open end of the compartment, and drying means mounted in the lid for directing hot air currents into the compartment.

1,755,540. CONTROLLABLE AUXILIARY WING FOR AIRPLANES. CHARLES H. GUNN, San Francisco, Calif. Filed Sept. 19, 1928. Serial No. 306,825. 4 Claims. (Cl. 244—29.)



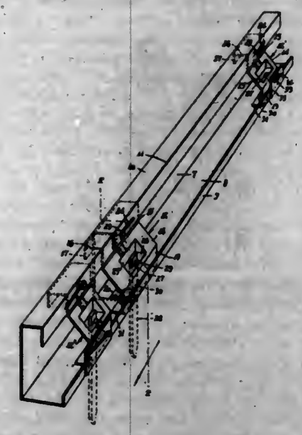
1. An auxiliary wing structure for airplanes including a rigid wing element superimposed and normally lying on the main wing, means for moving said element forwardly so that its forward edge extends ahead of the forward edge of the main wing, and means connecting said element to the main wing, in a manner to cause the element to assume an upwardly and forwardly angled position with such forward movement thereof.

1,755,541. ROAD FORM. JOHN N. HELTZEL, Warren, Ohio. Filed May 7, 1927. Serial No. 189,542. 20 Claims. (Cl. 25—118.)

10. A form rail having an inclined slot, and a member slidable in the rail and having a portion working in said slot to bind said member in the rail when slid in one direction.

16. A form rail having upper and lower flanges, a member disposed between said flanges and having a lower flange

bearing on the lower rail flange and having an inclined portion provided with an inwardly pressed pocket, said



pocket having a bottom portion with a stake receiving opening, and said lower flanges of said rail and member having openings to receive the stake.

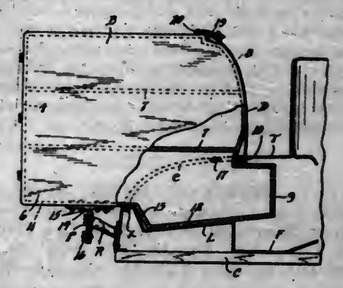
1,755,542. FLY EXIT. FRED L. HICKEL, Ray, N. Dak. Filed June 26, 1928. Serial No. 288,445. 1 Claim. (Cl. 156—37.)



In a structure of the class described, a closure screen provided with an opening, an exit in alignment with said opening, said exit being in the form of an elongated substantially hollow box constructed of wire mesh material, said exit adapted to extend outwardly from said closure screen and having one end completely opened to provide an entrance, an attaching frame fastened to said entrance, a complemental frame for cooperation with the first named frame, fastenings for said frame and the opposite end of the exit being provided with a plurality of discharge openings, and said end being disposed in spaced relation with respect to said closure screen.

1,755,543. DETACHABLE COMMERCIAL BODY FOR AUTOMOBILE TONNEAUX. ROSCOE A. HILL, St. Paul, Minn. Filed June 29, 1928. Serial No. 289,270. 9 Claims. (Cl. 224—29.)

1. A detachable body for automobile tonneaux comprising a box structure having a front portion adapted to underlie the ledge at the front of the tonneau doorway and having a bottom provided with an offset forward portion adapted to be supported from the bottom portion of

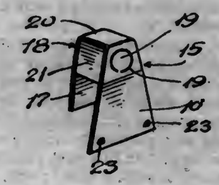


the tonneau structure, said offset portion providing an abutment shoulder to prevent rearward longitudinal displacement of said box structure.

1,755,544. PROCESS OF IMPROVING BREWING WATERS. EDUARD JALOWETZ, Vienna, Austria. Filed Aug. 18, 1926, Serial No. 130,101, and in Austria Nov. 20, 1925. 9 Claims. (Cl. 210—23.)

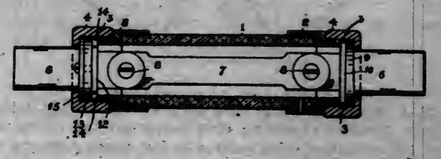
1. A process of improving brewing-waters by adding gypsum in such quantity that a stoichiometrical proportion is obtained between sulphates and carbonates of lime and magnesia.

1,755,545. OUTLET FOR BASEBOARD RACEWAYS. PAUL H. LACEY, Chicago, Ill. Filed July 28, 1928. Serial No. 295,873. 7 Claims. (Cl. 247—15.)



1. An outlet for base board raceways comprising in combination a ground strip having a transversely extending groove, and an outlet member formed with a hood-like portion overlying an end of the groove in the ground strip, said hood-like portion having side and end walls and portions extending from certain of its walls and extending parallel with faces of said ground strip and secured thereto, there being an outlet opening in one side wall of said hood-like portion.

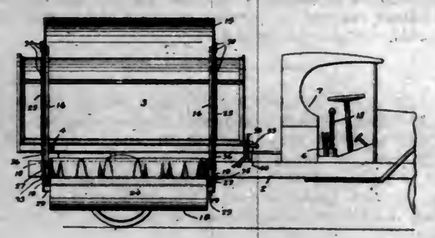
1,755,546. RENEWABLE FUSE. FREDERICK C. LAVARACK, Montclair, N. J., assignor to Great Western Fuse Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 28, 1928. Serial No. 264,141. 4 Claims. (Cl. 200—132.)



1. In a renewable fuse, the combination of a tubular body, a terminal blade provided with an abutment, a slotted washer arranged to be slipped down over the blade into

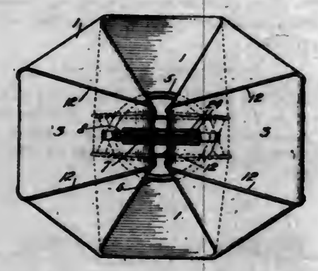
engagement with said abutment, means for preventing relative rotation between the washer and the body, a one-piece apertured sealing disk slidably secured to the face of the washer by a pin and slot connection and arranged to be slipped down over said blade with and to bear against the slotted washer, said disk and blade being provided with portions arranged to interengage, when the disk is shifted on said washer, to prevent relative longitudinal movement between said blade and said disk, and means for clamping all of said elements in fixed assemblage.

1,755,547. REFUSE COLLECTOR. HENRY C. LIMA, Stamford, Conn., assignor, by mesne assignments, to Atia Sales Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 11, 1925, Serial No. 22,353. Renewed Dec. 5, 1928. 4 Claims. (Cl. 214—67.)



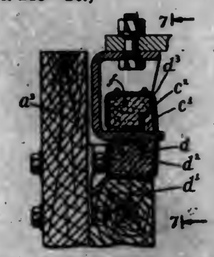
1. A refuse collector comprising a chassis, a cargo body mounted on said chassis having a curved top, and a receiving opening running substantially the full length of the body, a protecting hood on the curved top overhanging the opening and adapted to cooperate with a loading trough in its raised position so as to prevent escape of discharging material, a guide at each end of the opening having a straight portion along the side of the vehicle and a curved portion along the curved top co-operating with the protecting hood,—a material carrying trough having a material receiving opening substantially the length of the body, guided along said guides and having a width so that when raised it substantially fills said protecting hood, and means for raising and lowering said trough.

1,755,548. HAND BAG. JOSEPH N. LOWE, New York, N. Y. Filed Aug. 28, 1927. Serial No. 214,901. 9 Claims. (Cl. 190—43.)



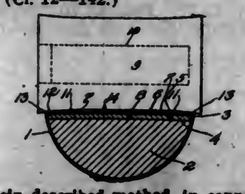
2. A hand bag, comprising flexible ends having linings, mouth portions extending from below the top of the bag and along the top, sides secured to the mouth portions, the mouth portions defining a mouth for the bag, and stiffening boards for the ends having recesses coinciding with the terminals of the mouth, the boards being inserted between the linings and the ends.

1,755,549. CUSHIONING DEVICE FOR MARINE PROPULSION. ALFRED F. MASURY, New York, N. Y., assignor, by mesne assignments, to The Rubber Shock Insulator Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,528. 1 Claim. (Cl. 248—16.)



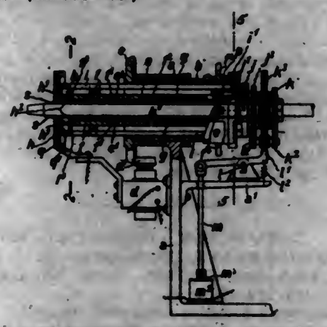
In combination with the hull of a vessel and prime mover, flanges formed along the sides of the prime mover, channels extending substantially the full length of the engine, formed with rigid arms and secured to the flanges, separable housings carried with the hull and having open sides, respectively, through which the arms enter, yielding non-metallic material retained within the housings and engaging the ends of the arms and bolts securing the parts of the housings together and retaining the yielding non-metallic material under compression.

1,755,550. METHOD OF OUTLINING McKAY SHOES. FRANK S. MESS, Lynn, Mass., assignor to North American Chemical Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 31, 1927. Serial No. 243,845. 7 Claims. (Cl. 12—142.)



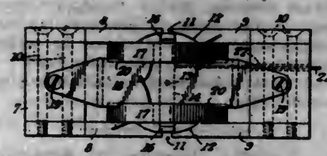
1. The herein described method, in connection with the manufacture of a shoe of the kind having an inturned upper around a bottom cavity, consisting of spreading the filler layer thereby waxing the inturned upper around the bottom cavity and outlining the edge of the upper all at the same time and as a part of one and the same bottom forming operation.

1,755,551. HOLDER WITH FEEDING ARRANGEMENT FOR THE POSITIVE ELECTRODE OF A SEARCHLIGHT. FRANZ MEYER, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed June 27, 1928, Serial No. 288,785, and in Germany June 29, 1927. 12 Claims. (Cl. 176—66.)



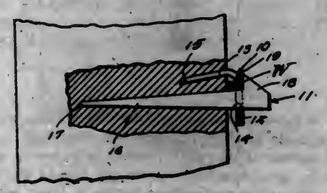
4. In a holding device for the positive electrode of a searchlight, a holder for the electrode, rotatable about the axis of the electrode, a motor running continuously in the same direction, means for coupling the holder to the said motor, a number of clamps fixed to the said holder near the front end of the electrode, a number of rods extending from the clamps towards the rear end of the holder, the rods being attached to the holder and capable of being shifted in the direction of said axis, a body disposed in the device at the rear end of the said holder and capable of rotating about the said axis, this body containing helical surfaces lying opposite the rear ends of these rods and coacting with them, a pinion connected to the said holder, another pinion of different diameter connected to the said body, and two additional pinions one each of which engages one of the aforesaid two pinions, and supported on a shaft which lies parallel to the said axis, a toothed wheel capable of rotating about the said axis, the said shaft being rotatably supported in this toothed wheel, a latch disposed in the device and adapted to engage the toothed wheel, and means for controlling this latch, the rods being adapted—when moved by turning the said body—to tighten or loosen the said clamps and to move them in the direction of said axis.

1,755,552. DRIVING UNIT FOR SPEAKERS. NICHOLAS M. MICHAILOVSKY, Bronx, N. Y., assignor, by direct and mesne assignments, of thirty-seven and one-half per cent to Paul Noel Ritter, Long Island, N. Y., and twenty-five per cent to Henry W. Boettger, New York, N. Y. Filed Aug. 23, 1928. Serial No. 301,526. 4 Claims. (Cl. 175—339.)



1. A driving unit for speakers or the like, comprising a magnet having pole pieces fixed over opposite faces of the same and separated to provide magnetic gaps at the opposite sides of the magnet, the inside faces of said pole pieces being curved substantially as arcs having a center between the magnetic gaps, an armature mounted for rotational movement about a corresponding center on an axis substantially parallel with and extending in the general direction of length of the magnet, said armature extending transversely across from one face toward the opposite face of the magnet and having polar portions shaped similarly to and opposed to the curved inside faces of the pole pieces, a transmission connection extending from said armature and magnetising means for the armature.

1,755,553. WIRE FASTENER. WILLIAM F. MONTEITH, Salmon Arm, British Columbia, Canada. Filed Jan. 18, 1927. Serial No. 161,889. 2 Claims. (Cl. 85—10.)



1. A securing element comprising a relatively thin, flat nail having a head of the same thickness as the body, the head projecting in one direction in the plane of the nail to form an inwardly facing shoulder, and an angular keeper, the arms of which are disposed substantially at right angles, one of said arms being sharpened, the other arm having a rectangular passage through which the nail passes and which the nail fits, the head of the nail projecting laterally from the body of the nail a distance approximately equal to the distance between the aperture in the keeper and the point of junction between the arms whereby the sharpened end of the keeper may be forced for a considerable distance into the material into which the nail is being driven.

1,755,554. HEAT-TREATED NICKEL-COPPER-ALUMINUM ALLOY AND METHOD OF HEAT TREATING THE SAME. WILLIAM A. MUDGE, Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Filed June 10, 1924. Serial No. 719,088. 12 Claims. (Cl. 148—21.2.)

1. In the treatment of nickel-copper-aluminum alloys containing less than 20% of aluminum and at least 15% of nickel, the steps consisting of heating the material to above 600° F. and allowing it to cool.

1,755,555. MANUFACTURE OF ALLOYS OF COPPER, NICKEL, AND ALUMINUM. WILLIAM A. MUDGE, Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Continuation of application Serial No. 719,088, filed June 10, 1924. This application filed Mar. 31, 1925. Serial No. 19,730. 10 Claims. (Cl. 148—21.2.)

1. In the treatment of nickel-copper-aluminum alloys containing from 2% to 17% of aluminum and at least 15% of nickel, the steps consisting of heating the material to above 600° F. but short of melting, and allowing it to cool.

1,755,556. HEAT-TREATED COPPER-NICKEL-ALUMINUM ALLOY. WILLIAM A. MUDGE, Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Mar. 31, 1925, Serial No. 19,730. Divided and this application filed July 13, 1925. Serial No. 43,403. 11 Claims. (Cl. 148—21.2.)

1. In the treatment of nickel-copper-aluminum alloys containing from 2% to not over 17% of aluminum and at least 15% of nickel, the step consisting of softening the material by rapidly cooling it from a heated condition short of its melting point, such conditions being sufficient to soften the material when cooled.

1,755,557. COPPER-NICKEL-ALUMINUM ALLOY AND METHOD OF HEAT TREATING THE SAME. WILLIAM A. MUDGE, Huntington, W. Va., assignor, by mesne assignments, to The International Nickel Company, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Mar. 31, 1925, Serial No. 19,730. Divided and this application filed July 13, 1925. Serial No. 43,404. 11 Claims. (Cl. 148—21.2.)

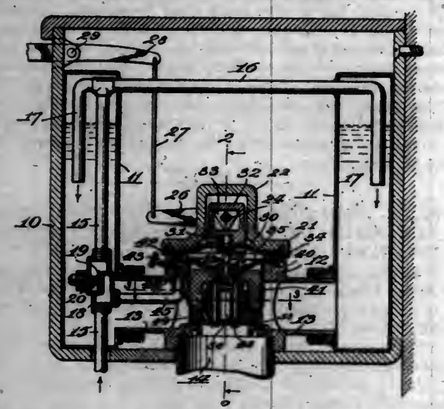
1. In the treatment of nickel-copper-aluminum alloys containing up to 17% of aluminum and at least 15% of nickel, the step of subjecting the material to regulated cooling from a temperature of over 1200° F. but short of melting.

1,755,558. FLUSHING VALVE. JESSE C. OWENS, Los Angeles, Calif. Filed May 29, 1929. Serial No. 366,949. 14 Claims. (Cl. 4—26.)

1. The combination with a pair of airtight tanks, of a housing connecting the lower portions of said tanks, a discharge pipe leading from the intermediate portion of said housing, a manually operable flush valve normally closing said outlet pipe, a water pressure supply pipe

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leading to the upper ends of the tanks and the ends of which supply pipe within the tanks are extended downwardly so as to direct jets of water downwardly within the tanks when the flush valve is open to permit water to discharge from said tanks.

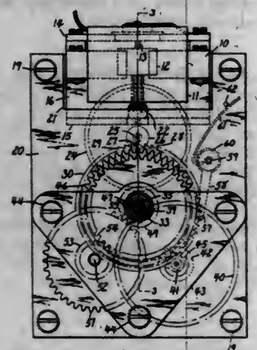


1,755,559. GALVANIZING. CARL PLETSCH, Bad-Nauheim, Germany. Filed May 15, 1924. Serial No. 718,460. 2 Claims. (Cl. 91—70.3.)



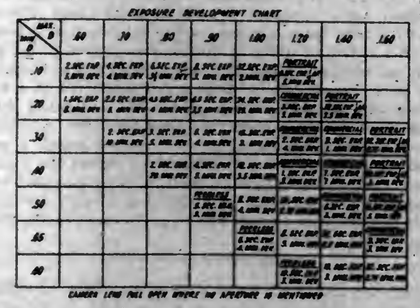
1. The process of galvanizing metal articles comprising cleaning the articles by a cleaning treatment including pickling in acid, applying a solution containing zinc chloride to the surfaces of the articles to be galvanized, neutralizing any free acid introduced in the zinc chloride solution by the pickled articles, heating the articles to dry the solution, and applying molten zinc containing small amounts of aluminum and tin to the surface to be galvanized.

1,755,560. ELECTRIC CLOCK. WILSON E. PORTER, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn., a Corporation. Filed Dec. 1, 1928. Serial No. 323,047. 2 Claims. (Cl. 58—26.)



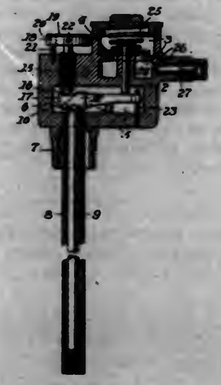
1. In an electric clock having a continuously-rotating synchronous electric motor and visible time-indicating means driven thereby; an intermittent step-by-step drive-mechanism interposed between the said motor and the said indicating-means; whereby the uniform rotary movement of the said motor is converted into a step-by-step movement of the said time-indicating means.

1,755,561. PROCESS OF CORRECTING PHOTOGRAPHIC COPIES FOR FACSIMILE TRANSMISSION. RICHARD HOWLAND RANGER, Brooklyn, N. Y., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Aug. 24, 1925. Serial No. 51,930. 5 Claims. (Cl. 178—7.)



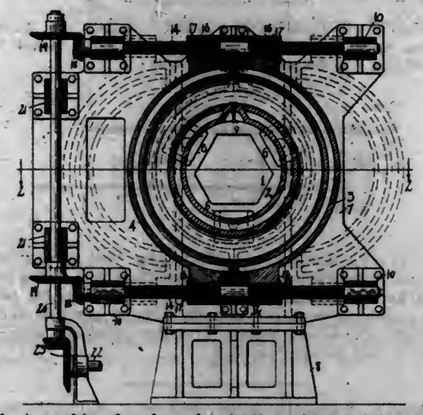
1. The method of preparing a picture for electrical transmission of a facsimile thereof, which comprises, optically determining the average density range of said picture, comparing said picture with a predetermined schedule of density range obtained from a standard picture having an optimum density range for electrical facsimile transmission, reproducing said first picture to secure a copy thereof having substantially the same density range as said second picture, and electrically transmitting a facsimile of said copy.

1,755,562. VALVE. CLARENCE W. ROBERTSHAW and GEORGE A. ROBERTSHAW, Youngwood, Pa., assignors to Robertshaw Thermostat Company, Youngwood, Pa., a Corporation of Pennsylvania. Filed Sept. 30, 1927. Serial No. 223,071. 8 Claims. (Cl. 236—102.)



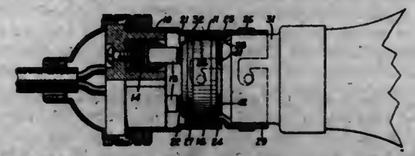
3. In a valve, a valve body having a valve casing therein and a lever housing cooperating therewith, a projection on said casing at one side thereof, a valve in said casing, a lever in said housing, operating means for said lever, and an adjusting mechanism for said lever extending entirely through said projection out of communication with said casing and valve, there being a removable closure for said casing, said closure and adjustment being rotatable about substantially parallel axes.

1,755,563. APPARATUS FOR VULCANIZING INNER TUBES. EMIL SCHNEDAREK, Akron, Ohio, assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 7, 1927. Serial No. 181,720. 2 Claims. (Cl. 18—19.)



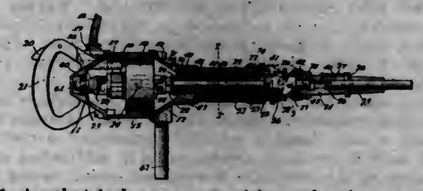
1. A machine for the vulcanization of inner tubes, comprising a tube mold divided circumferentially into inner and outer sections, the former being a continuous ring-shaped member having a trough-shaped recess on its outer periphery and the latter being divided into a plurality of segments, each having a trough-shaped recess on its inner periphery, an independent mounting for each segment and means connected therewith to move the segments simultaneously toward and from the inner section, said means comprising oppositely screw-threaded shafts, lugs carried by each segment engaging said shafts and a common driving means for rotating the shafts.

1,755,564. CIRCUIT-CONTROLLING DEVICE. MILTON H. SHOENBERG and LESTER SCHON, San Francisco, Calif.; said Schon assignor to said Schoenberg. Filed Apr. 28, 1927. Serial No. 186,160. 7 Claims. (Cl. 200—115.5.)



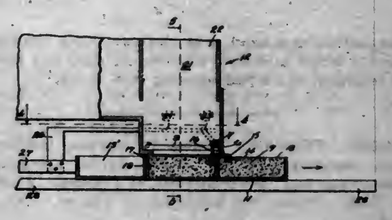
1. A device for controlling current supplied by a lamp socket of the bayonet type, comprising a sleeve adapted to be detachably inserted in said socket, contacts adapted to make connection with the contacts of the socket, other contacts adapted to make connection with a male connector device of the bayonet type inserted in said sleeve, a circuit controller electrically associated with said contacts, and a unitary mounting for said contacts and controller.

1,755,565. ELECTRIC HAMMER. LAWRENCE G. SHOOK, Los Angeles, Calif. Filed Oct. 20, 1926. Serial No. 142,863. 5 Claims. (Cl. 78—38.)



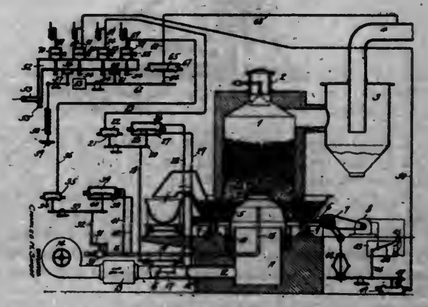
1. An electric hammer comprising a housing, an electric motor in the housing, a shaft driven by the motor, a cam carried by the shaft, a tool holder slidable upon the housing, a cam on the tool holder adapted to be engaged by the first cam, said tool holder carrying a sleeve disposed around the housing and on which is formed a flange, springs bearing on opposite sides of the flange and yieldably holding the tool holder in the predetermined position wherein the cams are disengaged, whereby, upon forcing the housing toward the tool holder, the cams will engage, causing the tool holder to be vibrated by the motor.

1,755,566. BRICK-FORMING MACHINE. JOSEPH SIMMONS, Los Angeles, Calif. Filed June 27, 1928. Serial No. 288,553. 11 Claims. (Cl. 25—104.)



8. In a molding machine, means for depositing plastic material in a mold, a paddle pivotally mounted adjacent said mold, means for extending said paddle into the mold as the mold is being discharged from the depositing means and for withdrawing the paddle before the after end of the mold is discharged, and a leveling blade extending across and closely overlying said mold.

1,755,567. CENTRALIZED CONTROL FOR GAS PRODUCERS. CHARLES H. SMOOT, Maplewood, N. J. Filed Apr. 16, 1926. Serial No. 102,479. 7 Claims. (Cl. 48—87.)

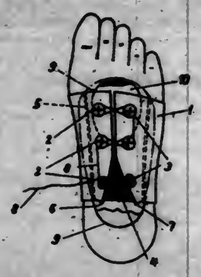


1. In combination with a gas producer provided with air supplying means and a regulator therefor, means responsive to and varying inversely with the pressure of the gas produced, means responsive to and varying with the rate of flow of air to the producer, and a movable member acted upon by both of said means for controlling said regulator.

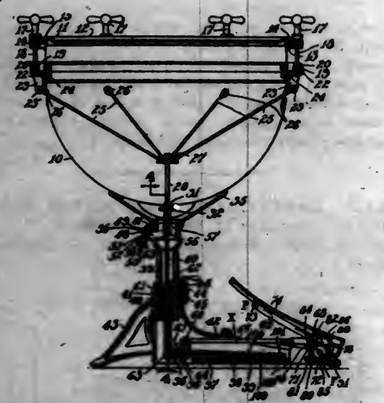
1,755,568. FOOT-ARCH SUPPORT. HANS SOCHOR, Zurich-Hongg, Switzerland. Filed Jan. 7, 1928, Serial No. 245,150, and in Switzerland June 18, 1927. 2 Claims. (Cl. 128—166.5.)

1. An arch support comprising a band of flexible relatively unstretchable material adapted to pass around the instep and arranged with its ends beneath the arch, said ends being spaced apart, a strip of elastic material having its opposite edges secured to said band along lines spaced from the ends of the latter, and bridging the gap

between the ends of the band and by its contraction serving to draw the band firmly around the foot, lacing directly connecting said band ends and adjustably limiting the extent to which said strip may be stretched and said support enlarged, and a pad covering said lacing.

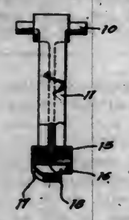


1,755,569. TYMPANO. CECIL H. STRUPE, Indianapolis, Ind., assignor to Leedy Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Apr. 4, 1929. Serial No. 352,403. 17 Claims. (Cl. 84—419.)



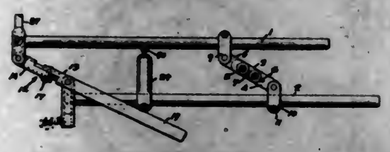
1. A pedal tympano comprising a pedestal, a kettle supported by the pedestal, a head for the kettle, head tensioning means arranged to act upon said head, a pull rod for actuating said tensioning means, a foot pedal movably mounted upon the pedestal, a connection between said foot pedal and the pull rod, a friction brake arranged to hold the pedal against movement, and pedal controlled means by which the brake may be rendered active or inactive.

1,755,570. BEARING BOX. FRED C. THOMSON, deceased, Beverly Hills, Calif., by David R. Faries, administrator, Los Angeles, Calif. Filed Jan. 28, 1929. Serial No. 335,668. 5 Claims. (Cl. 184—13.)



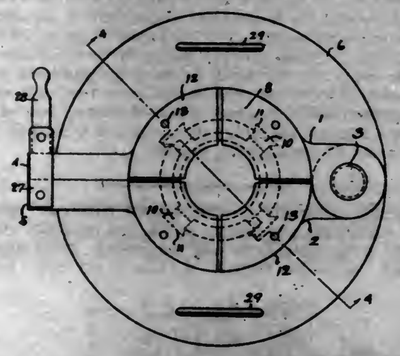
4. In an upright internal combustion engine, the combination of a splash lubricated shaft, a bearing box therefor, a lubricant crank case housing said shaft and box, said bearing box having the lower half formed by a strip pitched in relation to the axis of said box and the width such as to expose the shaft for the width of said box.

1,755,571. COIL-BENDING TOOL. AARON P. WATTS, Los Angeles, Calif. Filed Dec. 20, 1926. Serial No. 155,913. 13 Claims. (Cl. 153—20.)



1. A wire bending tool comprising two substantially parallel rods, three-part adjustable links connecting said rods, and means carried by certain of said links for bending a wire to form two straight parallel portions and a straight connecting portion arranged obliquely with respect to said parallel portions.

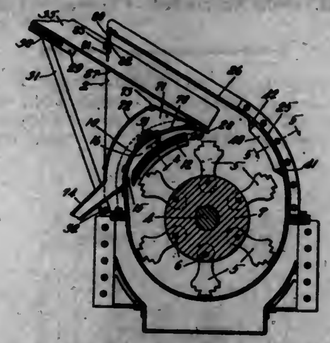
1,755,572. PIPE HOLDER. WALTER L. CHURCH, Houston, Tex., assignor of one-half to William L. Pearce, Houston, Tex. Filed July 5, 1927. Serial No. 203,841. 4 Claims. (Cl. 24—263.)



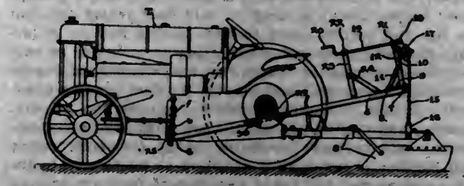
1. A pipe holder including a spider formed of sections hinged together, at one side, and having outwardly turned jaws, at the other side, said spider having a base portion substantially wider than any other portion of the spider so that the same may be seated on a rotary table and having a downwardly converging seat, separate wedge shaped slips in said seat, yieldable means supporting the respective slips on the spider, and releasable securing means associated with the jaws and adapted to secure the sections of the spider about the pipe, to be held said securing means comprising a link pivoted to one jaw and a toggle lever pivoted to said link, one end of which is adapted to engage the outer side of the other jaw and whose other end is formed with a hand grip.

1,755,573. METHOD OF AND MECHANISM FOR GRINDING AND SEPARATING MATERIALS. WALTER J. CLEMENT, Utica, N. Y., assignor to The Bossert Corporation, Utica, N. Y., a Corporation of New York. Filed Apr. 7, 1928. Serial No. 268,300. 19 Claims. (Cl. 19—44.)

1. A mechanism of the class described comprising a substantially cylindrical casing, a rotary shaft arranged coaxially of said casing, a plurality of hammers carried by said shaft to swing in circular paths in said casing and adjacent to the inner face thereof, said casing having its inner face extending outwardly beyond its cylindrical outline through a portion of its circumference, a duct extending lengthwise within said casing out of the paths of said hammers at said outwardly extended portion and defining therewith a passage for material out of the path of said hammers, the outer face of said duct having openings through which material in said passage may be drawn, and means for exhausting air from said duct.



1,755,574. HOISTING DEVICE. ROBERT B. COFFMAN, New Alexandria, Pa. Filed May 31, 1929. Serial No. 367,469. 7 Claims. (Cl. 37—126.)



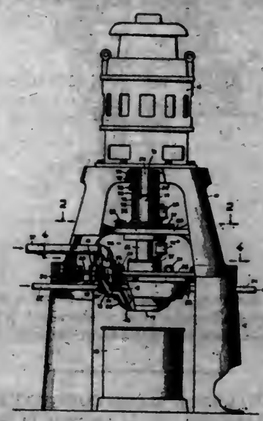
6. In a hoisting device, a frame including side beams having their front and middle parts provided with means to attach them to a tractor in such position that the rear ends extend rearward from the tractor, a rear end-beam having its ends united with the rear ends of the side beams, an upright on the part that extends rearward from the tractor but at a distance from said rear end-beam, a bearing on said upright, a second bearing, and means on said rear end beam to support said second bearing; in combination with a lifting member mounted for rotary movement in said second bearing, means secured to said lifting member and connectable to a load for lifting the latter, and a manually operable member journalled in the first said bearing and operatively connected to said lifting member for effecting rotary movements thereof.

1,755,575. NOZZLE FOR SAND-BLAST APPARATUS. WILHELM ECKLER, Altona-Ottensen, Germany. Filed July 19, 1928, Serial No. 293,967, and in Germany Aug. 20, 1925. 3 Claims. (Cl. 51—15.)



1. A blast nozzle arrangement for sand blast apparatus, comprising a sand container, an outlet for the sand at the bottom of the sand container, a revolving table underneath the sand outlet, a rotatable tubular member below the sand container, above the revolving table and surrounding the sand outlet, sand nozzles secured to the lower end of the rotatable tubular member, the said tubular member being adapted to guide sand from the sand outlet to the sand nozzles, an inlet for admitting a gaseous driving fluid into the rotatable tubular member, a sand accumulating member mounted inside the rotatable tubular member and underneath the sand outlet in such a position as to leave an annular gap between the tubular member and the sand accumulating member, the said gap leading to the sand nozzles, and the said sand accumulating member being adapted to spill sand uniformly into the annular gap whenever the nozzles are rotating, owing to the vibration caused by such rotation.

1,755,576. HOMOGENIZING MILL. WILLIAM EFFENBACH, College Point, N. Y., assignor to United States Colloid Mill Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 23, 1927. Serial No. 207,866. 10 Claims. (Cl. 83—7.)



1. In a mill, the combination of a plurality of elements having juxtaposed effective surfaces for emulsifying, grinding or homogenizing material to be treated, said surfaces being disposed in substantially horizontal planes, a casing for said elements, said casing including a hollow portion extending interiorly of both of said surfaces having a substantially vertically extending discharge for the treated material, and means for rotatively mounting one of said elements in said casing at a definitely set clearance relative to the other of said elements.

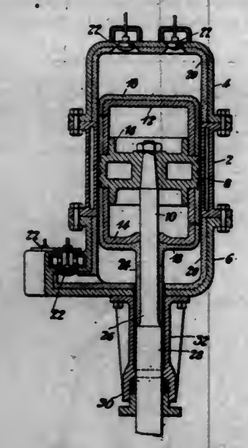
1,755,577. REVERSIBLE TRAIN-CLASSIFICATION SIGNAL. WILLIAM J. FROST, Mansfield, La. Filed Aug. 5, 1929. Serial No. 383,685. 2 Claims. (Cl. 116—175.)



1. A signalling device including two rigid wings hinged together at one end and movable into either of two co-

inciding positions one wing having a slot, eyes on each side of the other wing and adapted to project through said slot when the wings are in such coinciding position, and to receive a key insertable through said projecting eye to secure said wings together.

1,755,578. RECIPROCATING ENGINE. WINDER E. GOLDSBOROUGH, South Norwalk, Conn., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 15, 1926. Serial No. 88,203. 9 Claims. (Cl. 123—191.)



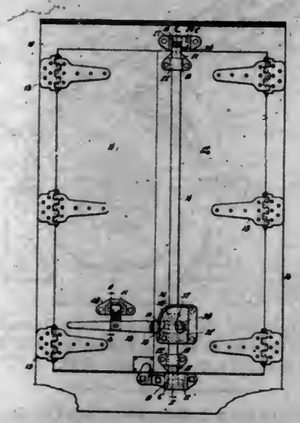
1. A piston rod comprising a rod having a portion of its length of reduced diameter and a sleeve of refractory material telescoped over the portion of reduced diameter.

1,755,579. CIGARETTE SLIDE CONTAINER. WILLIAM F. GRUPE, Lyndhurst, N. J., assignor to Boucher Cork Co., Inc., New York, N. Y., a Corporation of New York. Filed May 9, 1928. Serial No. 276,247. 16 Claims. (Cl. 229—9.)



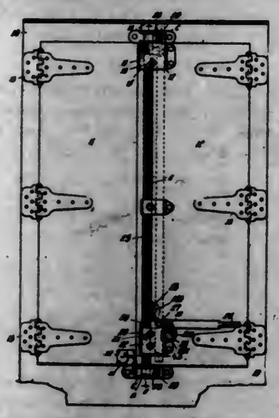
1. A container for cigarettes comprising an outer pouch element, an inner slide element, said slide element being arranged to receive and contain cigarettes, and an element of readily rupturable material wholly enclosing said inner slide element.

1,755,580. DOOR-OPERATING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed June 10, 1926. Serial No. 115,062. 4 Claims. (Cl. 268—72.)



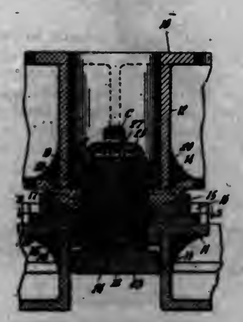
1. In a door operating mechanism of the character described, the combination with a door frame and a pivoted door; keeper means secured to said door frame adjacent the top and bottom edges thereof, having inclined guideways thereon; a continuous operating bar mounted on said door for reciprocation lengthwise and adapted to engage with the guideways of said keepers to effect opening movement of said door upon upward reciprocation of said member, and closing movement upon downward reciprocation of said member; actuating means for reciprocating said member in an upward direction so as to elevate the same and retract the lower end thereof from its projecting position below the bottom edge of the door; and means thrown into action by operator upon movement of said actuating means to bring said member to said elevated position for automatically locking said member in said elevated position.

1,755,581. DOOR-OPERATING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed June 25, 1926, Serial No. 118,448. Renewed Sept. 26, 1929. 6 Claims. (Cl. 268—72.)



1. In a door operating mechanism, the combination with a door frame and a pivoted door; of a single operating bar; means for movably mounting said operating bar on the door, said means serving to confine said bar against rotation; means for effecting combined longitudinal reciprocation of said bar and lateral travel of said bar and keeper means coacting with the opposite ends of said operating bar to effect opening and closing movements of said door upon actuation of said member.

1,755,582. CAR CONSTRUCTION. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Jan. 24, 1929. Serial No. 334,692. 11 Claims. (Cl. 105—200.)



1. In car construction, the combination with body and truck bolsters having aligned center pin receiving openings; of a center pin provided with heads at opposite ends thereof having shouldered engagement with the body and truck bolsters, respectively, each of said heads having a shank portion formed thereon, one of said shank portions being in the form of a sleeve and the other shank portion being telescoped within said sleeve, said shank portions respectively extending through the openings of both bolsters and being locked together against endwise separation and together forming the complete shank of the pin.

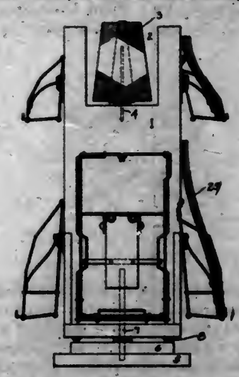
1,755,583. SOUND RECEIVER. HARVEY C. HAYES, Washington, D. C. Filed Aug. 17, 1927. Serial No. 213,632. 8 Claims. (Cl. 179—121.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. In a sound receiver a plurality of coils, a source of electricity connected with said coils and adapted to produce a plurality of separate magnetic fields around said coils, a rigid, bodily movable armature normally balanced in said magnetic fields, sound responsive means connected with said armature and adapted to reciprocate the latter, resilient members connected with said armature and adapted to restore the latter and means for indicating the changes in flux of the magnetic fields upon movements of the armature.

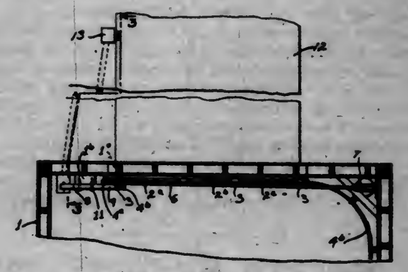
1,755,584. BAG HOLDER. GEORGE L. WECKERT, Seattle, Wash. Filed June 12, 1929. Serial No. 370,861. 2 Claims. (Cl. 211—53.)

1. A bag holder comprising a back board, a wire secured to the board forming the back of a wire frame, side wires secured to the back wire, a bottom cross wire connecting the side wires, said side wires being bent inwardly



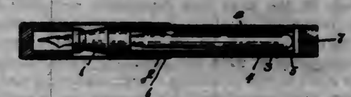
at their middle portion to overlie the bags, and a spring-pressed plate carried by the back board adapted to bear against the back of the bags forcing them outwards.

1,755,585. REMOTE LOCK AND CONTROL MEANS FOR DOORS. CHARLES JACOB ANDREWS, San Diego, Calif. Filed Mar. 16, 1926. Serial No. 95,110. 2 Claims. (Cl. 70—14.)



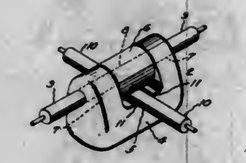
1. In a lock mechanism of the class described, a lock support having a recess in one side, a lock supporting frame pivotally mounted on said support adapted to cover said recess, a lock positioned at the inner side of said frame adapted to be enclosed in said recess when said frame is positioned thereover, the bolt of the lock being adapted to engage a recess portion of said support, and means operatively connected to said frame and adapted to be connected to a door.

1,755,586. FOUNTAIN PEN. EDWARD C. BERRY, Melrose, Mass., assignor to Chilton Pen Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 3, 1928. Serial No. 310,114. 2 Claims. (Cl. 120—47.)



1. In a fountain pen comprising a pen holding section having a resilient ink sack connected thereto, a tube enclosing said sack and connected to said section at one end and open at its opposite end, a barrel telescopically fitted on said tube, and having an end opening, stops on said tube and barrel arranged for engagement to limit the extent to which the barrel may be drawn from the tube and having means arranged to permit the passage of air into the tube, independently of said opening, when said stops are engaged, and to be closed against the passage of air upon a slight initial inward movement of the barrel on the tube.

1,755,587. INSULATING DEVICE. WILLIAM BROAD, Beaver Falls, Pa., assignor of three-fourths to Harry E. McLain, Pittsburgh, Pa. Filed Dec. 28, 1927. Serial No. 243,010. 3 Claims. (Cl. 173—28.)



3. In an insulating device, a base having a seat for an electrical conductor, an electrical distribution conductor or wire seated therein, closure means of insulating material extending across the seat, and means for holding the closure means in place comprising a second distribution conductor or wire extending through the base, through the closure means, and then through the base whereby the closure means serves as an insulating medium between the conductors.

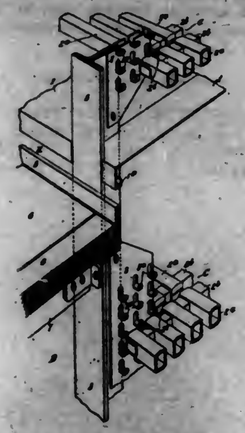
1,755,588. SCREW HOLDER AND DRIVER. CHARLES W. BRONK, Binghamton, N. Y. Filed May 25, 1928. Serial No. 280,569. 2 Claims. (Cl. 145—52.)



1. The combination with a screw driver having a handle and shank, of two longitudinally oppositely positioned jaws conforming to the rounded surface of the shank, flanges at the upper ends of the jaws, a spring surrounding the upper ends of the jaws and contacting with the flanges, grasping members at the lower ends of the jaws, leaf springs carried by each jaw member and having their free ends in engagement with the shank to normally separate the lower ends of the jaws and a split collar movable along the outside surfaces of the jaws to close the grasping ends of the jaws against the tension of the springs.

1,755,589. BOOK AND STORAGE STACK. CLIFFORD SIDNEY BROWN, Jersey City, N. J. Filed Nov. 1, 1928. Serial No. 316,404. 8 Claims. (Cl. 211—136.)

1. A book and storage stack comprising a plurality of ranges, aisles between said ranges, said ranges and aisles composed of a plurality of superimposed tiers, stack floors, each tier occupying the space lying between two adjacent stack floors, said ranges divided into compartments by range partitions, vertical columns forming supporting means and positioned on both sides of the ranges and



aisles and deck framing members supported by said vertical columns, said deck framing members adapted to support the stack floors.

1,755,590. NUT AND SCREW FASTENING. FRED S. CARR, Newton, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed July 22, 1925. Serial No. 45,274. 3 Claims. (Cl. 85—2.4.)



1. A fastening device for attachment to a relatively thin support comprising, in combination, a nut unit including a nut-holder casing having a flanged base portion to prevent passage of the nut-holder casing through an aperture in the relatively thin support and a resilient portion, a nut assembled with said casing, said nut presenting a flanged base portion located adjacent to the flanged base portion of the casing and an expansible portion passing through the resilient portion of the casing, and a screw for engagement with said nut to expand the expansible portion of said nut against the resilient portion of said casing, thereby to prevent contraction of said casing.

1,755,591. SEPARABLE FASTENER. MOSES F. CARR, Lexington, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 2, 1928. Serial No. 251,824. 10 Claims. (Cl. 24—214.)



7. An attaching plate for securing a separable fastener stud element to a support, said plate having an abutment

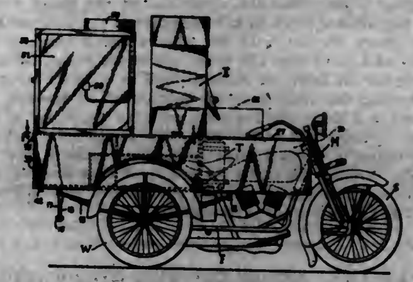
in the form of a boss at the under side of the plate adjacent to the edge and located at one side only for pressing a portion of a flexible support out of the general plane of the remainder of the flexible support.

1,755,592. BUCKLE DEVICE. MOSES F. CARR, Lexington, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1928. Serial No. 297,806. 4 Claims. (Cl. 24—69.)



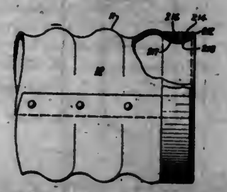
1. A buckle device comprising in combination an eyelet member in the form of a plate having a hook-receiving aperture therethrough and a projection of substantial length at one side of said aperture, a cooperating hook member comprising a single plate portion, a hook portion pivoted at one end to said plate portion and an integral extended projection provided as an intermediate part of the plate portion and located between the pivoted end of the hook and the projection of the eyelet member when the eyelet member and hook member are engaged, said extended projection of the hook plate and the projection of the eyelet plate adapted to cooperate to prevent faulty engagement of the members of the buckle device.

1,755,593. MOTOR-CYCLE VENDING SIDE CAR. WILLIAM E. CAVADAS, New York, N. Y. Filed Nov. 28, 1928. Serial No. 322,315. 7 Claims. (Cl. 208—45.)



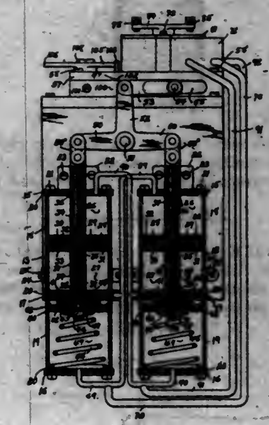
1. In a vending vehicle, the combination with a motorcycle and a third wheel spaced therefrom, a transverse axle supported by the third wheel, longitudinally extending springs carried by the axle, a body, means to support the body from the springs including means connecting one corresponding end of each spring and a pivotal connection between said last named means and the body permitting relative movement in a transverse vertical plane.

1,755,594. METALLIC CULVERT. JACK B. CHAMBERS, Houston, Tex., assignor to California Corrugated Culvert Company, West Berkeley, Calif., a Corporation of California. Filed Mar. 2, 1927. Serial No. 171,991. 6 Claims. (Cl. 137—75.)



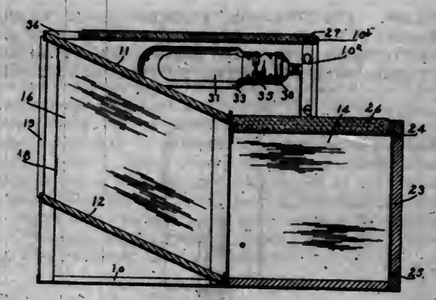
1. A sheet metal culvert unit of the corrugated type having an endless reinforcing metal bar interfitting an end corrugation only, one peripheral surface of the bar corresponding generally to the contour of the culvert corrugations.

1,755,595. GEAR SHIFTER. ALVIN M. CRAIG, New Haven, Conn., assignor to American Gear Shift Company Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 18, 1928. Serial No. 271,089. 16 Claims. (Cl. 74—58.)



1. In a gear-shifter, the combination with the transmission-case of an automobile; of a substantially vertically-arranged cylinder positioned at the side thereof; a vertically-reciprocating piston and piston-rod in the said cylinder; a gear-shifting member reaching into the said transmission-case; and motion-converting connections extending laterally of the said transmission-case for coupling the said piston-rod with the said gear-shifting member and converting the substantially-vertical movement of the former into a movement of the latter longitudinal to the transmission-case.

1,755,596. COMPARASCOPE. IRVING FISHER, New Haven, Conn. Filed Sept. 8, 1925. Serial No. 54,372. 9 Claims. (Cl. 88—14.)



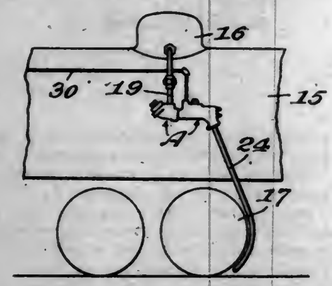
1. In a device of the character described, a cabinet comprising side walls and a pair of supports supported between said walls, one above the other, a reflecting member positioned above the upper support and facing the game, a plate of transparent material below said reflecting member and in front of the upper support, said plate being above and in front of the lower support, whereby an object on the lower support may be viewed therethrough and the image of an object on the upper support and reflected by the reflecting member will be reflected therefrom.

1,755,597. BOTTLE CAP, CONTAINER, AND OTHER REENFORCED PRODUCT. EUGENE L. GREENEWALD, Flushing, N. Y. Filed Mar. 17, 1924. Serial No. 699,846. 43 Claims. (Cl. 215—43.)



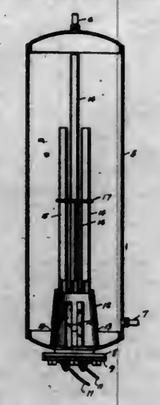
1. A tubular body having corrugations extending circumferentially thereof, and sheet material permanently united to the crests of said corrugations and reenforcing the latter.

1,755,598. TRACK SANDER. JOHN H. HANLON and JOHN W. HANLON, Somerville, Mass., assignors to Hanlon Locomotive Sander Company, Winchester, Mass., a Corporation of Massachusetts. Filed Oct. 14, 1927. Serial No. 226,242. 17 Claims. (Cl. 191—11.)



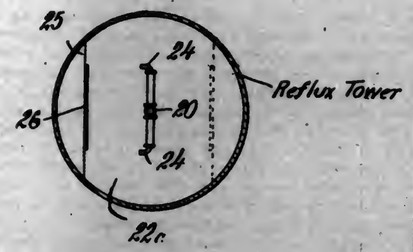
1. A track sander having a substantially straight horizontal sand passage leading laterally from the sand supply chamber or reservoir, a grid disposed adjacent the mouth of the passage, a downwardly disposed outlet leading from the outer end of said passage, and means for discharging air under pressure into said passage to cause sand to flow from said chamber or reservoir to said outlet.

1,755,599. CIRCULATION ELEMENT FOR TANKS. ARTHUR J. HENRY, Los Angeles, Calif., assignor of one-half to Sidney J. Bush, Los Angeles, Calif. Filed Nov. 17, 1926. Serial No. 148,992. 2 Claims. (Cl. 122—13.)



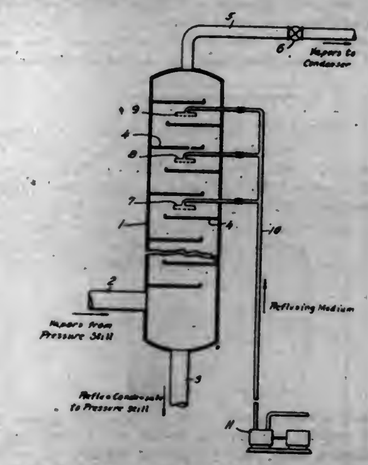
1. In a water heater the combination with a tank having a heater unit therein and an outlet communicating with the top of the tank, a circulation device comprising an inverted cup disposed over said unit, there being vent openings in the wall of said cup adjacent the edge thereof, and a plurality of tubes of different lengths communicating with the chamber of said cup extending from the cup bottom and ending at different levels in said tank.

1,755,600. ART OF CRACKING HYDROCARBONS. EUGENE C. HERTHEL, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 30, 1925. Serial No. 40,502. 3 Claims. (Cl. 196—139.)



2. An improved method of cracking hydrocarbon oils, which comprises distilling the oil under pressure in a pressure still and passing the vapors from the still upwardly through a reflux tower, maintaining free flow of the vapors through the reflux tower, withdrawing the remaining vapors from the upper end of the reflux tower, and introducing fresh oil to be supplied to the pressure still into direct contact with the vapors rising through the tower at a point near the upper end of the tower, initially supplying the fresh oil so introduced as compact streams, preventing distribution of the introduced oil through the vapors in a finely divided state near the upper end of the tower by causing the fresh oil to flow downwardly between said baffles in compact streams and the vapors to flow upwardly through the tower externally of said streams, and returning reflux condensate and unvaporized fresh oil from the reflux tower to the pressure still.

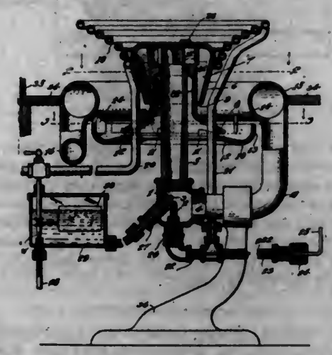
1,755,601. ART OF CRACKING HYDROCARBONS. EUGENE C. HERTHEL, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed July 27, 1927. Serial No. 208,741. 3 Claims. (Cl. 196—140.)



1. In refluxing operations employed in conjunction with the cracking of hydrocarbon oils by distillation under

pressure, the improvement which comprises passing the vapors from the pressure distillation through a reflux condenser, introducing into the reflux condenser in direct contact with the vapors passing therethrough at a plurality of points spaced a substantial distance along the path of vapor travel a light oil which is vaporized substantially completely under the conditions prevailing in the reflux condenser, and returning condensate from the reflux condenser to the pressure distillation, whereby entrainment in the reflux condensate of light constituents suitable as components of the desired distillate is reduced.

1,755,602. OIL BURNER. GUSTAF E. JACOBSON, South Orange, N. J. Filed Sept. 9, 1926. Serial No. 134,368. 14 Claims. (Cl. 158—56.)



1. An oil burner comprising means for injecting ingredients to form a combustible mixture, means for mixing said ingredients, a sloping shelf on which to burn the mixture, a drip pan at the lower edge of said shelf, a manifold extending peripherally around said drip pan, and means for obtaining auxiliary supplies of air between the shelf and drip pan and between the drip pan and manifold.

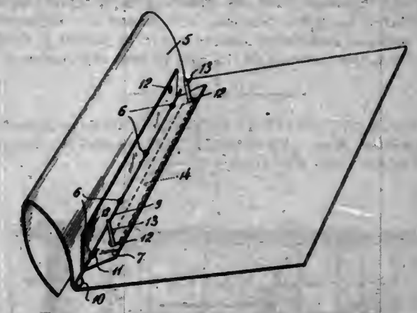
1,755,603. PROTECTIVE SUPPORT FOR USE WITH GAS STOVES. SAMUEL M. KASS, Philadelphia, Pa. Filed Sept. 20, 1927. Serial No. 220,662. 1 Claim. (Cl. 126—215.)



A safety device for supporting a pot above the gas burner and shielding the burner from any liquid boiling over from the pot, comprising an upwardly and inwardly converging hollow cone support and a catch gutter about the base of the support, the catch gutter being perforated at the bottom and the bottom of the perforation being bent downwardly and outwardly to direct the liquid to flow outwardly away from the flame.

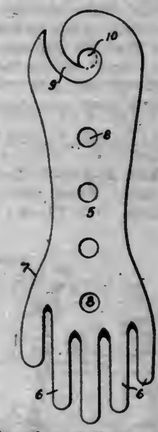
1,755,604. BINDER. FRED J. KLINE, Bayville, N. Y. Filed Sept. 22, 1927. Serial No. 221,235. 1 Claim. (Cl. 129—1.)

In a binder for papers, a folded cover, a plurality of members extending inwardly through the cover along its fold-line and forming eyelets on the inside thereof, a binder strip within said cover having a plurality of openings along its fold-line through which said eyelets extend, a pintle overlying the binder strip and extending through



the eyelets to form a hinge, means for removably securing the pintle, and means carried by said binder strip for detachably securing papers between the folds thereof.

1,755,605. GLOVE DRIER. ROBERT KNOX, Toronto, Ontario, Canada. Filed June 3, 1927. Serial No. 196,189. 2 Claims. (Cl. 223—17.)



1. As an article of manufacture, a glove drier, including a substantially flat body having an enlargement provided with five finger-like extensions formed about one end thereof and having a centre line disposed symmetrically with respect to said five fingers, said body having a portion extending away from said enlargement in the opposite direction of said fingers, such extension being provided with a plurality of perforations disposed along said centre line, and provided with a slot at the side of the centre line and extending toward the fingers and to the centre line and along the centre line in a direction away from the fingers, thereby forming a shoulder to prevent disengagement from its support.

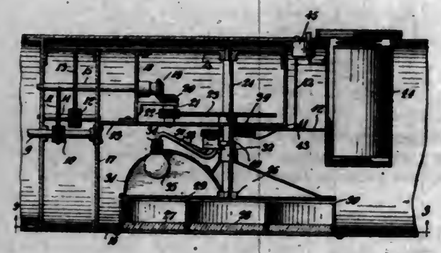
1,755,606. CLAMPING MEMBER FOR SOLE-ROUNDING MACHINES. ANTHONY LABRIE, Haverhill, Mass. Filed Feb. 12, 1929. Serial No. 339,612. 5 Claims. (Cl. 12—25.)



3. A sole clamping member for a sole rounding machine, comprising a forepart section and a heel part section, said

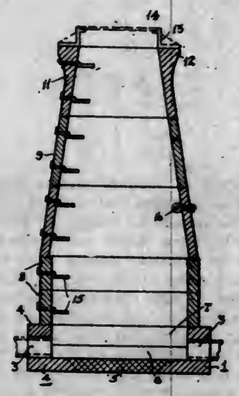
sections terminating at their rear and front ends, respectively, in transverse faces located adjacent the position of the heel breast line, said faces being arranged to extend obliquely rearward from the clamping faces thereof in approximately parallel relation, and means for supporting said sections sufficiently spaced apart to permit a tongue split from the heel end of the sole to pass therebetween.

1,755,607. DISPLAY DEVICE. PHILEMON LAROCHE, Lawrence, Mass. Filed Mar. 2, 1928. Serial No. 258,501. 4 Claims. (Cl. 40—130.)



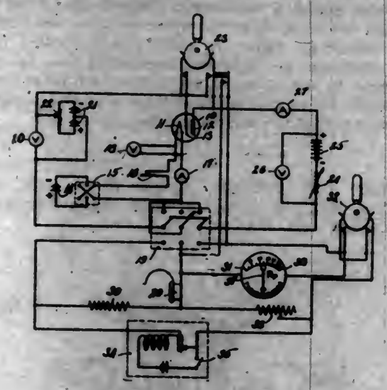
1. An aerial display device having a generally cigar shaped body and a propeller, a casing positioned in the bottom of said body and having a plurality of colored transparent discs mounted therein, means for illuminating said discs, and means connected with said propeller for rotating said illuminating means when the propeller is rotated by the wind.

1,755,608. SECTIONAL CASING. EDWARD D. LEMMERMAN, Cleveland, Ohio. Filed Apr. 10, 1926. Serial No. 101,115. 2 Claims. (Cl. 72—9.)



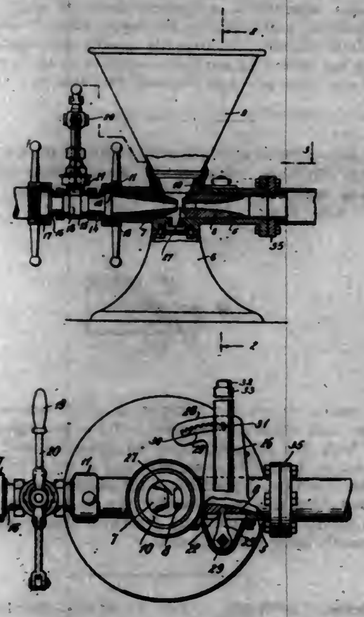
2. In an article of the character described, the combination of a field-cast base provided with an upstanding flange portion, said flange portion being provided with a circumferential interlocking element at its upper edge, a series of precast circular sections and precast tapered sections having circumferential interlocking elements on their respective edges and adapted to interengage with each other, the element on the lowermost of said sections being engaged with the complementary element on said flanged base, and a precast top section formed with a circumferential interlocking element on its lower edge adapted to interengage with the complementary element upon the uppermost tapered section, said top section being thickened adjacent its upper edge to provide a supporting surface for a closure.

1,755,609. TESTING VACUUM TUBES. EDWARD LIPSON, Chelsea, Mass. Filed July 30, 1925. Serial No. 47,087. 11 Claims. (Cl. 250—27.)



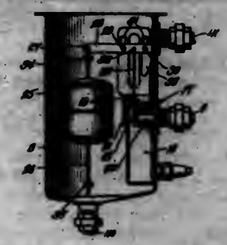
4. In a testing circuit for relays of the space current type, connections including an input circuit and an output circuit for said relay, means for supplying current to said relay, means responsive to current transmitted through said output circuit for producing an indication in terms of the internal impedance of the relay, and other means associated with said output circuit for determining the calibration of said indicating means.

1,755,610. FOAM GENERATOR. WALTER PALMER, Chester, Pa., assignor to Amdyco Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1927. Serial No. 162,340. 2 Claims. (Cl. 169—15.)



1. In an apparatus for producing fire-extinguishing foam, a hopper adapted to receive a dry material containing foam-forming and stabilizing ingredients, a housing communicating with the hopper, ejector and mixing nozzles within the housing, a lever projecting through the housing and having a finger engaging with a recess in one of the nozzles whereby the latter can be moved relatively to the other nozzle, and means for holding the lever in adjusted position and limiting the arcual extent of movement thereof including a notched sector and a pin on the lever adapted to engage the notches of the sector, the pin being removable whereby the lever can be moved to disengage the finger from the recess in the nozzle to permit removal of the latter from the housing.

1,755,611. PUMP. LAWRENCE M. PERSONS, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 3, 1926. Serial No. 91,913. 8 Claims. (Cl. 103—40.)



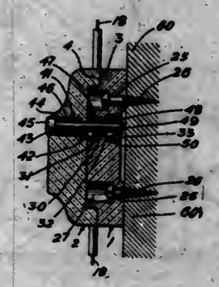
1. In a fluid supply system, the combination of a source of supply, a receptacle, a pump for pumping fluid from said source of supply into said receptacle, and a control associated therewith comprising a closed chamber communicating with said source of supply and said pump, and an outlet valve for said chamber adapted to be held in open position when the liquid in said receptacle reaches predetermined high and low levels.

1,755,612. AUTOMATIC HEAT-REGULATING DEVICE. MARTIN S. RUNSVOLD, San Diego, Calif. Filed Aug. 29, 1927. Serial No. 216,112. 12 Claims. (Cl. 200—51.)



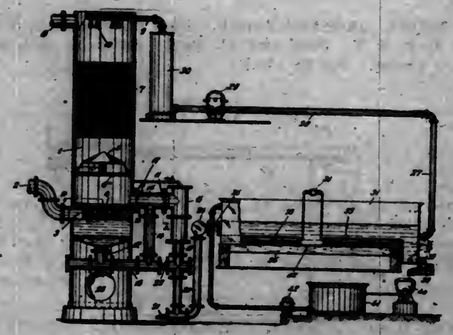
1. In an automatic heat regulating means, a heat and current conducting thermostat support means, a heat distortable thermostat, loosely secured at its ends by said support means, a contact at the one end of said support means, another contact spaced apart from said first mentioned contact, a switch support, a switch slidably mounted thereon, contacts on said switch adapted to connect said first and second mentioned contacts, means for frictionally holding said switch in closed position on said switch support, and means actuated by said thermostat for releasing said switch from engagement with said support.

1,755,613. ELECTRIC SOCKET. LAMBERT SCHMIDT, Jr., Brooklyn, N. Y., assignor to himself and Louis Freund, New York, N. Y. Filed Jan. 17, 1929. Serial No. 333,038. 9 Claims. (Cl. 173—342.)



2. An electrical socket structure comprising a base, a receptacle thereon for an electrical appliance, terminals accessible at the outer face of the base, a cover designed to accommodate said receptacle and covering and rendering said terminals inaccessible, and means positively locking the cover to the base, said locking means being accessible at the outer face of the cover but devised to prevent manipulation to cause unlocking after being placed in locking position.

1,755,614. AERATION AND GAS-PURIFICATION APPARATUS. GILBERT E. SEIL, Newark, N. J., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1925. Serial No. 21,978. 10 Claims. (Cl. 261—3.)



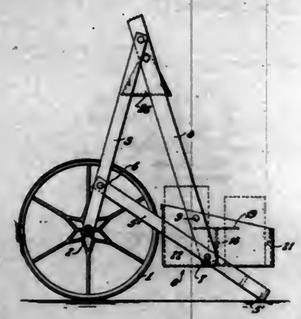
1. Means for use in aeration of liquids comprising a frame, pliable woven fabric of tubular form fixed at one end of said frame and held suspended thereby in a substantially horizontal plane so that the fabric is vibratile; an upwardly curved perforated air pipe extending substantially horizontally within said tube; means for supplying air to said tube through said pipe; means clamping the end of the fabric to said frame; gaskets interposed between said fabric and said clamping means and frame; and circumferential ribs constructed on the interior of said tubular fabric.

1,755,615. PORTABLE DISPLAY RACK. CHARLES R. SELTZER, Longmeadow, Mass. Filed Dec. 17, 1928. Serial No. 326,544. 4 Claims. (Cl. 211—126.)

2. In a structure for display purposes, a support therefor, a shelf secured to the support and having upwardly

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extending sides, flexible means on the shelf having oppositely extending portions and recesses in said portions,

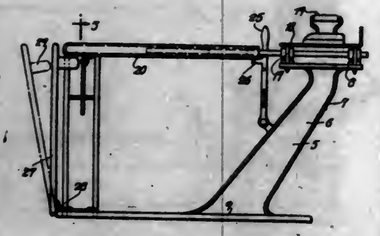


into which containers are placed, and in engagement with the sides of the shelf for securing the same against displacement.

1,755,616. PROCESS OF COLORING CLAY. ROBERT T. VANDERBILT, New York, N. Y., assignor to R. T. Vanderbilt Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 5, 1927. Serial No. 189,177. 4 Claims. (Cl. 91—68.)

1. The method of coloring clay, which comprises breaking up the clay into lumps, spraying the clay in lump form with a solution of a dye to color part of the clay particles of the clay lumps, and thereafter pulverising the clay lumps and thoroughly mixing the dyed clay particles with the undyed particles to effect substantially uniform distribution of the dyed particles throughout the clay and to give a final pulverized clay product of substantially uniform appearance.

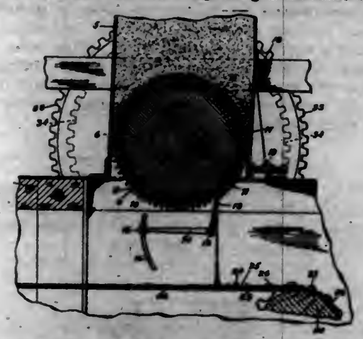
1,755,617. IRONING TABLE. JOHN WALLERSTEIN, New York, N. Y. Filed Dec. 31, 1928. Serial No. 329,331. 2 Claims. (Cl. 68—10.)



1. An ironing table comprising a standard, bearings thereon, a shaft revolvable in said bearings, a board secured to said shaft, a board holder pivoted to said standard and cam portions on said holder for engaging one end of the board to prevent free rotation thereof.

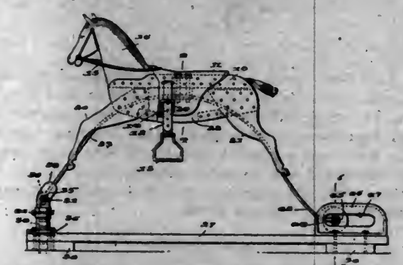
1,755,618. FEEDING AND CONVEYING APPARATUS. ERNST J. WATZL, East Cleveland, Ohio; Marie C. Watzl trustee for said Ernst J. Watzl, missing, assignor of one-half to Herman J. Trenkamp, Cleveland Heights, Ohio. Original application filed Oct. 23, 1925, Serial No. 64,330. Divided and this application filed Oct. 19, 1926. Serial No. 142,717. 4 Claims. (Cl. 221—137.)

1. In apparatus of the class described, the combination of a hopper, a drum projecting into and also somewhat below said hopper for carrying a layer of moist material therefrom through its discharge end and two independently adjustable devices cooperating with said drum for controlling the measure of discharge of material into said chamber one of said devices comprising a movable section



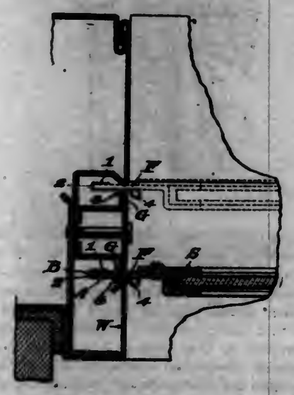
of the hopper wall and the other device comprising a finger pivotally mounted below the hopper and adapted to be swung toward or away from said drum.

1,755,619. TOY. CHARLIE WESTERLUND, San Antonio, Tex. Filed May 6, 1929. Serial No. 360,838. 5 Claims. (Cl. 272—52.)



1. A toy comprising a body member, a curved spring, means for securing the body member to an intermediate portion of the spring, spaced supports for the ends of the spring, one end of the spring being slidably mounted in its support.

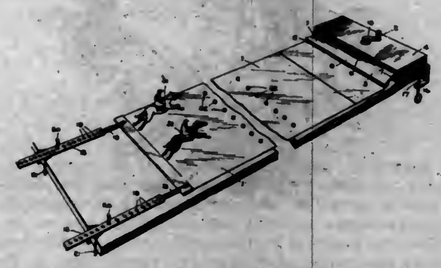
1,755,620. WEATHER STRIP FOR SLIDING METAL SASH. HERBERT E. WHITE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed Nov. 27, 1928. Serial No. 322,288. 7 Claims. (Cl. 189—65.)



1. A weatherstrip for sliding metal sash comprising in combination with a guideway for the sash, of a metal strip doubled upon itself to provide a sash embracing portion and a guideway engaging portion, said guideway engaging portion including a rib for limiting the side movement of the sash.

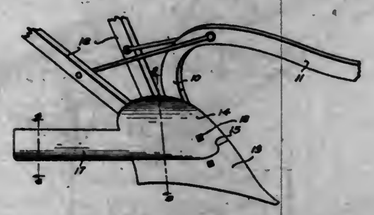
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1,755,621. APPARATUS FOR PLAYING A RACE GAME. FRANCIS REGINALD BRAMAN WHITEHOUSE, Harborne, Birmingham, England. Filed Mar. 14, 1929, Serial No. 347,122, and in Great Britain Sept. 22, 1928. 6 Claims. (Cl. 273—86.)



4. Apparatus for playing a race game comprising a flexible track, an abutment near one end of the track, operating means for intermittently moving the track in an endwise direction, said operating means engaging said abutment, a support for said operating means, clamping means for fixing said support, elastic members operating upon the end of the track opposite to that where said operating means are situated, clamping means for fixing said elastic members, and playing pieces for moving on said track.

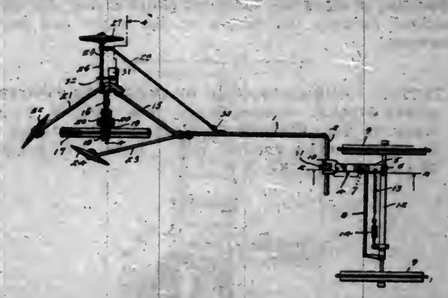
1,755,622. PLOW ATTACHMENT. BOB D. WHITLEY, Nashville, N. C. Filed Dec. 18, 1928. Serial No. 326,763. 1 Claim. (Cl. 97—115.)



A plow for cultivating hilled tobacco plants or the like, comprising a plowshare having an upper horizontal edge at a substantial elevation above its lower edge, a horizontal wing arranged above and in engagement with said upper edge, said wing having a relatively long and relatively narrow extension formed integral therewith, said extension being of substantially the same width throughout its entire length, said extension projecting rearwardly and laterally beyond the wing and having its lower edge substantially horizontal and sharpened, the arrangement of the wing being such that its lower sharpened edge is adapted to shear the top of a hill and throw earth about the plants, said wing being sufficiently narrow to pass beneath the leaves of the plants without injury to the same.

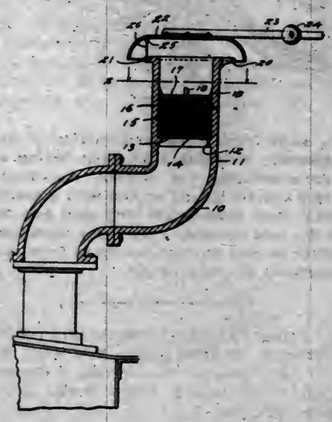
1,755,623. AUTOMATIC TRACTOR STEERING DEVICE. MARK B. WILLIAMS, Plainview, Tex. Filed Oct. 4, 1928. Serial No. 310,326. 9 Claims. (Cl. 97—49.)

1. An automatic steering mechanism control for tractor plows comprising a main guide arm designed to be connected to a tractor steering mechanism, a furrow following element supported by and at the forward end of the



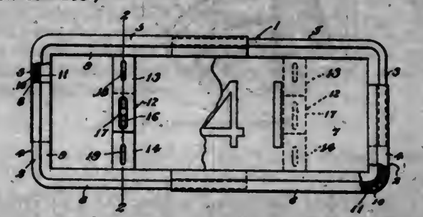
guide arm, and means carried by the arm forwardly of the element for taking control of the same at a furrow turn to swing the arm about the turn.

1,755,624. FLAME ARRESTER. MILES F. YOUNT, Beaumont, Tex. Filed June 14, 1928. Serial No. 285,397. 3 Claims. (Cl. 220—89.)



1. A gas vent for oil tanks comprising a hollow body having a screen therein, a pivoted hood covering the outer end of the body, means constantly urging said hood to one side of the body and a fusible member maintaining said hood in its operative position against the action of said means.

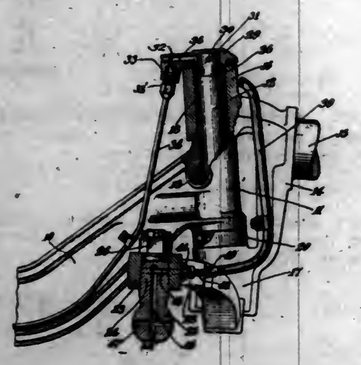
1,755,625. LICENSE-PLATE HOLDER. DALE D. BAST, Braddyville, and HARRY C. JOHNSON, Blanchard, Iowa. Filed June 28, 1928. Serial No. 287,686. 1 Claim. (Cl. 40—155.)



A device of the class described comprising a frame consisting of a pair of sections, each section including a hollow end member and upper and lower hollow members, the respective members having spaced flanges, the respective upper and lower members being telescopically en-

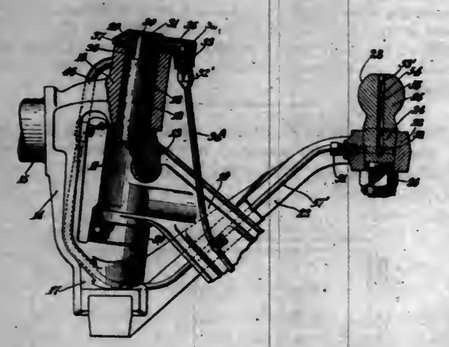
gaged, an endless coil spring confined within the upper and lower members and end members, and securing devices consisting of adjustably connected plates having their ends confined between the flanges of the upper and lower members.

1,755,626. LUBRICATION OF BEARINGS ON PIVOTED STRUCTURES. JOSEPH BIJUR, New York, N. Y., assignor to Auto Research Corporation, a Corporation of Delaware. Filed July 2, 1927. Serial No. 202,995. 18 Claims. (Cl. 184—7.)



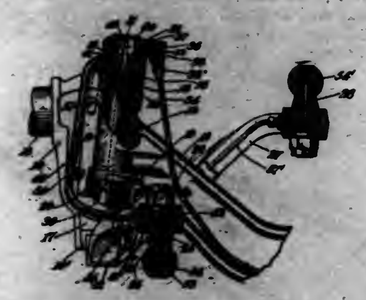
1. In a motor vehicle, the combination of an axle, a knuckle assembly including a king pin having a bearing surface accommodating the steering movement of the knuckle, said knuckle having an arm with a bearing thereon, lubricant inlet means rigid with said axle and above said king pin, said assembly including a passageway along the structure of said knuckle extending from end to end thereof exteriorly of said king pin.

1,755,627. LUBRICATION OF BEARINGS ON PIVOTED STRUCTURES. JOSEPH BIJUR, New York, N. Y., assignor to Auto Research Corporation, a Corporation of Delaware. Filed July 2, 1927. Serial No. 202,996. 10 Claims. (Cl. 184—7.)



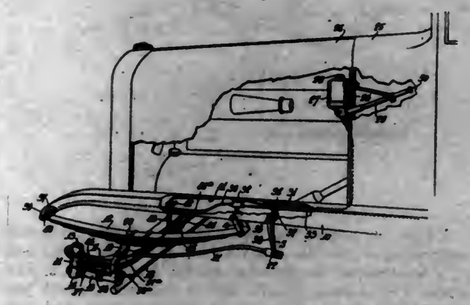
1. In a liquid distributing system, the combination of a conduit having a portion intermediate its ends at a level lower than both its inlet and its outlet, the inlet end of said conduit extending to a level higher than the outlet, the length of said inlet portion above the level of said outlet having a bore sufficiently large to permit downward passage of liquid around the air therein.

1,755,628. LUBRICATION OF BEARINGS ON PIVOTED STRUCTURES. JOSEPH BIJUR, New York, N. Y., assignor to Auto Research Corporation, a Corporation of Delaware. Filed July 2, 1927. Serial No. 202,997. 21 Claims. (Cl. 184—7.)



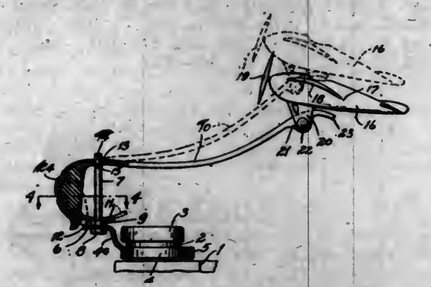
1. In a mechanical installation, the combination of a swiveled structure, a pair of bearings thereon at different levels spaced from the swivel mount and movable thereabout, a common source of lubricant at said swiveled structure and at level higher than said bearings, conduit means connecting said common source with said bearings to supply the latter from said source by gravity flow, said conduit means affording open passage from the higher bearing to the lower bearing in communication with each other at all times, said passageways being constructed and arranged to maintain substantially atmospheric pressure therein at all times.

1,755,629. LIQUID-DISTRIBUTING SYSTEM. JOSEPH BIJUR, New York, N. Y., assignor to Auto Research Corporation, a Corporation of Delaware. Filed Dec. 4, 1929. Serial No. 411,521. 9 Claims. (Cl. 184—7.)



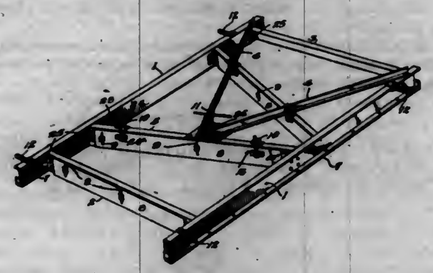
1. A centralized liquid distributing system including a reservoir, a main conduit system deriving liquid from the reservoir and having invariant high flow resistance elements at its outlets, a subsidiary distributing system beyond one of said outlets including a plurality of distributing conduits each receiving predetermined proportions of the liquid escaping from said outlet, the main conduit system including conduits of sufficiently small diameter to substantially preclude the passage of liquid around gases entrapped therein, so that they provide substantially incompressible liquid columns, the subsidiary conduit system including conduits having portions of sufficiently large bore to permit liquid flow about the gases therein, and means to apply pressure to the liquid in the main conduit system.

1,755,630. ORNAMENTAL DEVICE FOR AUTOMOBILE RADIATORS. FRANK J. BUDDE, St. Louis, Mo. Filed Sept. 4, 1928. Serial No. 303,704. 4 Claims. (Cl. 46—14.)



1. A device of the character described comprising, in combination with the radiator of an automobile, a support secured on the top of the radiator having a vertical post, an arm having one end reversely curved and provided with a slot receiving said post to permit said end to rest on said support, the main body of the arm having an aperture aligning with said slot and receiving the upper end of said post, members mounted on said post above and below said arm in the zone of said aperture, and an ornamental object mounted on the free end of said arm and presenting an inclined surface to the air in the forward movement of the automobile to cause the free end of said arm to raise under air pressure.

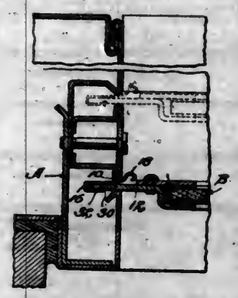
1,755,631. ROAD-SMOOTHING MACHINE. RICHARD A. BURNETT, Wilmington, N. C. Filed Sept. 21, 1927. Serial No. 221,025. 1 Claim. (Cl. 37—148.)



In a road smoothing machine, comprising longitudinally disposed members, steel runners secured on the bottom of said members, a front cross-beam extending from one runner to the other, a rear cross-beam extending from one runner to the other, an angularly disposed cross-beam in the rear of the first cross-beam, a second angularly disposed cross-beam disposed in the rear of the first angularly disposed cross-beam, steel cutting blades secured on the cross-beams, vertically disposed slots in the cross-beams, vertically disposed slots in the steel blades, bolts penerating the slots to adjustably hold the blades with relation to the cross-beams, lugs secured on the upper surface of the cross-beams, bolts secured to the blades and penetrating the lugs and a nut on the top of each of the lugs threadably engaging the bolts.

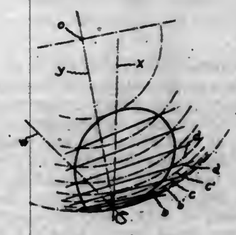
1,755,632. WEATHER STRIP FOR METAL SASH. JOHN OSCAR CARLSON, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed May 15, 1929. Serial No. 363,171. 5 Claims. (Cl. 189—65.)

1. A weatherstrip having a U-shaped formation adapted to embrace the outer marginal portion of a sash stile, and an inwardly directed projection on a wall of said U-shaped formation adapted to be received within a recess in the sash stile to interlock the strip with the sash, the said



sash stile being continuously straight transversely within the limits of the inner and outer side edges of the weatherstrip.

1,755,633. SCREW PROPELLER. ERIK AUGUST DEHMER, Stockholm, Sweden, assignor to Capulator-Aktiebolaget, Stockholm, Sweden, a Corporation of Sweden. Filed July 24, 1929, Serial No. 380,633, and in Sweden and Germany Aug. 1, 1928. 1 Claim. (Cl. 170—159.)

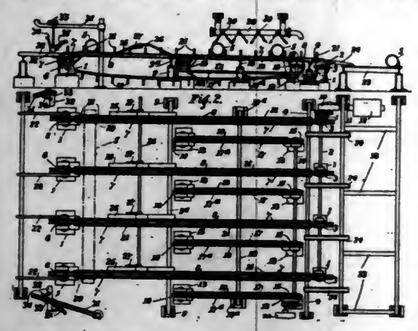


Improvement in screw propellers having blades of common contour provided at the leading edge with a cutting cam and a pressure surface coinciding with an element of a sphere, such pressure surface being shaped in such a manner; that a base line of a cross section at the blade root coinciding with the great circle plane of the sphere forms an angle to the base lines of cross sections taken at a distance from and parallel with the great circle plane, such angle being greater the farther the section planes are from the plane of the great circle; and that a plane through the axis of the propeller shaft and the middle of the blade root base line counted in the direction of rotation of the blade forms obtuse angles to said blade root base and to the base lines of the sections taken at a distance from and parallel with the great circle plane such angles being smaller the farther said base lines are from the blade root base.

1,755,634. LINING OF IRON AND STEEL PIPES, TUBES, AND OTHER HOLLOW BODIES. NORMAN STRAFFORD DEWEY, Airdrie, Scotland, assignor to Stewarts & Lloyds Limited, Glasgow, Scotland. Filed June 6, 1927, Serial No. 196,982, and in Great Britain Jan. 1, 1927. 24 Claims. (Cl. 91—42.)

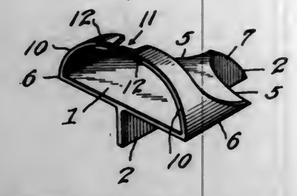
1. Lining iron and steel pipes with a bituminous substance by charging the pipes with the substance in liquid condition, translating the charged pipes bodily and by

mechanical action, and, during such translation and following their charging, spinning them about their own axes



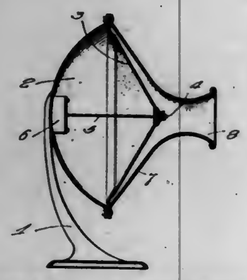
at a speed materially in excess of their speed of translation to distribute the bituminous substance by centrifugal force uniformly over their interior surfaces.

1,755,635. GUN SIGHT. PAUL R. DINDINGER, Florence, Ariz. Filed Apr. 3, 1928. Serial No. 267,055. 2 Claims. (Cl. 33—47.)



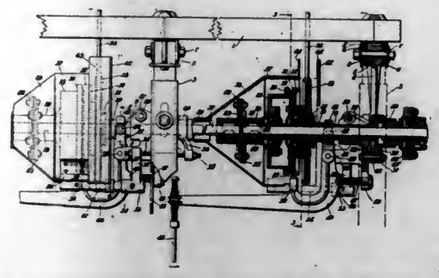
1. As an article of manufacture, a dark colored gun sight formed in a single unit comprising a base plate, arms extending upwardly and inwardly over the base plate to provide a restricted sight opening between the opposing terminal ends of said arms, the oppositely disposed terminal ends of said arms diverging rearwardly in a plane parallel to the base plate, and a coating of light reflecting substance arranged on the forward face of said arms on opposite sides of said restricted opening, and means whereby the base plate may be attached to a gun barrel.

1,755,636. LOUD-SPEAKER. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 22, 1927. Serial No. 221,277. 7 Claims. (Cl. 181—31.)



1. A loud speaker comprising a supporting member, a housing carried by said supporting member, an actuating device positioned within said housing, a cone shaped diaphragm actuated by said actuating device and a horn carried by said housing and conforming to the shape of said cone shaped diaphragm for providing a chamber between the exterior surface of said cone shaped diaphragm and the interior wall of said horn.

1,755,637. POWER-TRANSMITTER SUPPORT. GEORGE M. EAMES, Bridgeport, Conn., and IRVING F. WEBB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Original application filed May 27, 1925, Serial No. 33,261, and in Great Britain Aug. 11, 1925. Divided and this application filed Aug. 27, 1928. Serial No. 302,208. 7 Claims. (Cl. 308—29.)

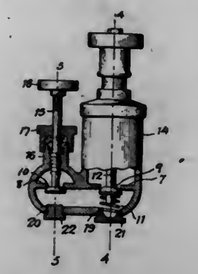


1. A power-table having table-top supporting standards, a depending hanger below the table-top, a universal support for the upper end of the hanger, a bearing-sleeve carried by the hanger, a power-transmitter sustained by said bearing-sleeve, a bracket-member secured upon one side of the hanger having a hub embracing said bearing-sleeve, a complemental bracket-member secured upon the opposite side of said hanger, and means carried by said bracket-members for adjusting the hanger upon its universal support.

1,755,638. MANUFACTURE OF WATERPROOF CEMENT. JOHN M. EVANS, Berkeley, Calif., assignor of one-half to George W. Wallace, San Francisco, Calif. Filed June 20, 1928. Serial No. 287,036. 5 Claims. (Cl. 106—25.)

3. A composition of matter, consisting of cement mixed with filtering clay impregnated with adsorbed petroleum and asphaltic bodies.

1,755,639. PRESSURE-REGULATING VALVE. DAVID B. FAWCETT, Washington, D. C. Filed Aug. 2, 1928. Serial No. 297,081. 9 Claims. (Cl. 50—11.)

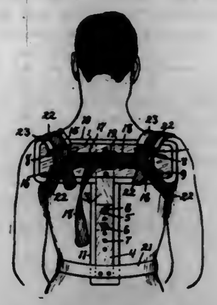


1. A valve of the character described comprising an elongated valve casing having a central chamber and intake and discharge ends, a ported partition within the casing chamber, an automatic pressure controlled valve governing the flow of fluid through said ported partition between said ends of the casing, a second ported partition within the casing, and a by-pass valve controlling the flow of fluid through said second ported partition between said ends of the casing, said valves having opening and closing movements in the same directions and governing the flow of fluid in the same direction through the respective partitions from end to end of the casing.

1,755,640. PROCESS FOR DYEING CELLULOSE ESTERS OR CELLULOSE ETHERS. ERICH FISCHER, Hochst-on-the-Main, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 9, 1926, Serial No. 134,582, and in Germany Sept. 17, 1925. 6 Claims. (Cl. 8—5.)

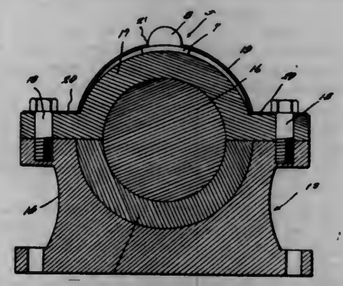
1. The process which comprises dyeing a compound of the group consisting of cellulose esters and ethers with a disazo dyestuff containing not more than one naphthalene nucleus and not more than one sulfo group, and at least one amino-group, which may be substituted, obtainable by combining two molecules of a diazo compound with a hydroxy compound of the aromatic series capable of being coupled twice.

1,755,641. SURGICAL SPLINT. ROY D. FOULKE, Warsaw, Ind., assignor to Winifred De Puy Leiter. Filed June 8, 1928. Serial No. 283,843. 5 Claims. (Cl. 128—83.)



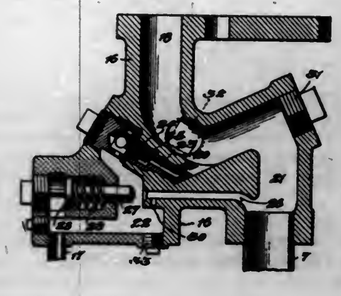
1. In a clavicle splint, a T-frame formed of a horizontally disposed non-flexible plate and a flexible vertically disposed prop in connection therewith consisting of overlapping plates secured together and being longitudinally adjustable relative to each other; an abdominal belt secured to the lower end of said prop, said horizontal plate having in each end portion thereof parallel slots that slant upwardly toward the vertical center line of said plate; an anchor strap extending through the slots in each end portion of said plate, the ends of said strap overlapping each other and being provided with corresponding buckles; an adjustable leash-strap connecting said anchor straps, each end of said leash being provided with a loop that encompasses the overlapping ends of the corresponding anchor straps; and a padded axillary strap in connection with each anchor strap, the ends of which axillary strap have engagement with the buckles of the corresponding anchor strap respectively.

1,755,642. WARNING FUSE. LARRY D. GANNON, Joliet, Mont. Filed May 1, 1929. Serial No. 359,635. 1 Claim. (Cl. 116—106.)



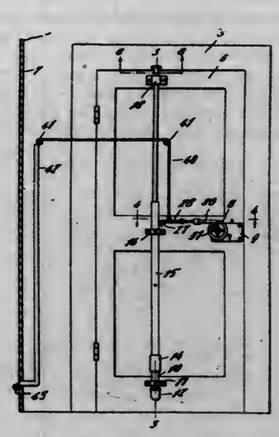
In a structure of the class described, in combination, a shaft bearing, and a warning fuse placed upon and impinging against a portion of said bearing, said fuse embodying self contained means for providing a warning signal observed through the medium of the senses of smell and sight.

1,755,643. TRACK-SANDING APPARATUS. JOHN GAPP, Scranton, Pa. Filed Apr. 1, 1929. Serial No. 351,579. 4 Claims. (Cl. 291—42.)



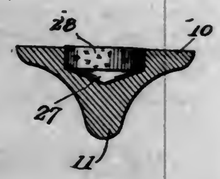
1. Track sanding apparatus, comprising a sand trap having an air chamber and a sand chamber, an air jet passage between said chambers, a check valve normally closing said passage, a clean out passage between said chambers, a piston valve to close said clean out passage but normally held open, and an air valve to control the supply of air to said air chamber.

1,755,644. THEFT ALARM. HENRY GARVEY, Jr., St. Francisville, Ill. Filed Jan. 3, 1930. Serial No. 418,299. 6 Claims. (Cl. 116—88.)



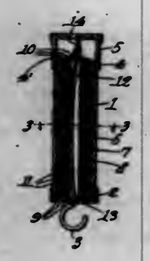
1. An apparatus of the class described comprising a barrel adapted to receive a cartridge in the upper end thereof, a union engaged with the barrel, a tube detachably engaged with the union, a hammer bar slidable in the tube, a striker in the bottom of the tube adapted to be impinged against by the hammer for igniting the cartridge, and means for holding the hammer raised.

1,755,645. BRAKE SHOE. JOHN HECTOR GRAHAM, New York, N. Y. Filed Aug. 5, 1927. Serial No. 211,270. 4 Claims. (Cl. 188—250.)



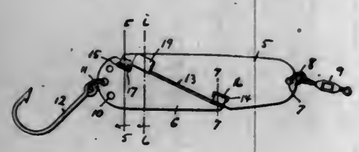
1. In a friction brake, an internal expansible ring comprising a pair of brake members arranged in opposed relation, and plugs of natural cork set in the peripheral surface of said members to present a yielding frictional grip engageable with the co-operating element of the brake.

1,755,646. SPIT. ELLIOTT N. HALSTEAD, Princeton, W. Va. Filed Apr. 4, 1929. Serial No. 352,470. 2 Claims. (Cl. 53—5.)



1. A spit including telescopically connected members, co-operating means on the members for limiting their relative sliding movement, a pointed head upon one of the members, the said members being adapted to collapse for housing in one of the members, and a cap detachably engaging one of the members for holding all of the members collapsed and for engaging and housing the pointed head.

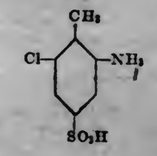
1,755,647. TROLLING SPOON. GEORGE F. HARVEY, Victoria, British Columbia, Canada. Filed Oct. 31, 1928. Serial No. 316,310. 2 Claims. (Cl. 43—45.)



1. A trolling spoon comprising a plurality of sections of sheet material disposed in edge to edge relation and with their abutting edges inclined from the longitudinal center line and including a forward section and a tail section and means hingedly connecting said inclined edges of the sections at predetermined points to cause the tail sections to normally lie perpendicularly by gravitation.

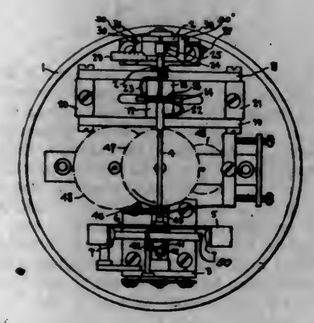
1,755,648. 6-CHLORO-2-AMINO-1-METHYLBENZENE-4-SULPHONIC ACID. FRANZ HENLE and BARTHOLOMÄUS VOSSEN, Hoechst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Aug. 24, 1925, Serial No. 52,216, and in Germany Sept. 1, 1924. Divided and this application filed June 6, 1928. Serial No. 283,453. 1 Claim. (Cl. 260—129.)

As a new product, the 6-chloro-2-amino-1-methylbenzene-4-sulphonic acid of the formula:



being a whitish gray powder, sparingly soluble in cold water, readily soluble in hot water and soluble in concentrated sulfuric acid to a yellowish solution.

1,755,649. ELECTRICALLY-DRIVEN CLOCK. FRANK HOLDEN, Aldwych, London, England. Filed Oct. 19, 1927, Serial No. 227,263, and in Switzerland Oct. 26, 1926. 4 Claims. (Cl. 58—28.)



1. In an electric clock having an oscillating member carrying a coil, a magnetic field through which the coil passes, an electric circuit including said coil, in combination, a contact connected to said circuit carried by the oscillating member a second contact also connected to said circuit normally separated from the first contact and arranged to be engaged by the first contact to complete said circuit when the coil is in the magnetic field and gravity controlled means horizontally pivoted and connected to said second contact for returning said contact to its normal position after displacement.

1,755,650. CONNECTING ROD. OLIVER T. ISAACSON, St. Cloud, Minn. Filed Feb. 15, 1928. Serial No. 254,503. 3 Claims. (Cl. 74—71.)

1. A connecting rod comprising a substantially straight connecting rod proper having at one end a bearing section, a second section connected with and together with the first mentioned section forming a complete bearing, a counterweight carried by the second mentioned section and extending in alinement with the rod proper and spaced therefrom by the bearing, said counterweight having a

threaded socket in alinement with the rod proper, a threaded weight movable in said socket toward and away



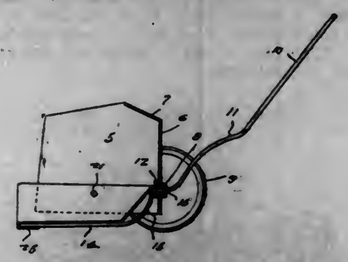
from the bearing, and a screw engaging the side of the threaded weight and adapted to lock the weight at an adjusted position.

1,755,651. HAND GARDEN FORK. HARRY T. KINGSBURY, Keene, N. H. Filed Dec. 8, 1928. Serial No. 324,697. 2 Claims. (Cl. 294—49.)



1. A sheet metal hand garden fork comprising a shank, a handle, and tines, all of which are formed integral with each other, the metal of the shank being bent so that the tines extend into the shank and reinforce the same, said shank being bent to provide a flange extending at an angle to the plane of the shank along its outer edge and extending into the handle and outer wall of the outer tines.

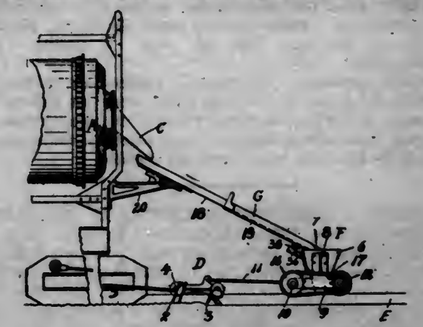
1,755,652. COMBINATION RAKE AND SNOW SHOVEL. JAMES P. KINSLEY, Kirkwood, Mo., assignor of one-half to Lewis E. Agnew, jr., Kirkwood, Mo. Filed Dec. 17, 1928. Serial No. 326,579. 5 Claims. (Cl. 37—121.)



1. A device of the class described including a hood formed with side walls, a rear wall, and a top wall; an axle bar across the rear wall, wheels journaled on the ends of the axle bar, a handle connected with the axle bar, tines connected with the rear wall and the axle bar, and curving downwardly and forwardly below the bottom edges of the side walls.

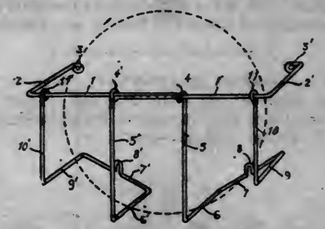
1,755,653. SUBGRADE PREPARING, CONCRETE DISTRIBUTING, AND FINISHING MACHINE. PHILIP A. KOEHRING, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed July 21, 1928. Serial No. 294,553. 17 Claims. (Cl. 94—46.)

1. In road building apparatus of the class described, the combination with a mixing plant, of instrumentalities for depositing and spreading concrete on a subgrade, and means for finishing the surface of the subgrade and interposed between the mixing plant and the spreading instrumentali-



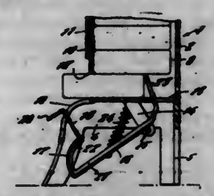
ties, said instrumentalities and means being simultaneously operable to perform their respective functions while continuously moving along the roadbed.

1,755,654. HOLDER FOR PANS AND COVERS. RUDOLPH A. KOTTEK, Detroit, Mich. Filed Feb. 25, 1929. Serial No. 342,404. 9 Claims. (Cl. 211—41.)



1. A rack comprising a pair of complementary wire members, each comprising two spaced vertical members forming the front of the rack and each further comprising a U-shaped connection between the lower ends of the vertical members projecting rearwardly therefrom, and forming the rack bottom.

1,755,655. VENDING MACHINE. HERMAN H. LANGENFELD, Earling, Iowa. Filed Jan. 4, 1929. Serial No. 330,177. 3 Claims. (Cl. 312—63.)



1. In a vending machine, an article holding cabinet provided with a discharge opening in the lower front side thereof, the bottom of the cabinet being formed with a slot in the rear portion thereof, a vertically swinging member pivotally supported adjacent its rear end beneath the bottom of the cabinet, an ejector finger extending upwardly from the pivoted rear end of the vertically swinging member through said slot for disposition rearwardly of the lowermost article in the cabinet, a vertically disposed strip extending upwardly from the forward end of the pivoted member and normally covering the discharge opening, and a forwardly projecting finger engaging lip formed on the upper edge of said strip for actuating the vertically swinging member to simultaneously move the strip to an inoperative position, and cause the ejector to force the lowermost passage forwardly through the discharge opening.

1,755,656. PROCESS OF PREPARING DIHYDROXYACETONE. WILHELM LENZ, Biebrich-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Apr. 20, 1927, Serial No. 185,360, and in Germany Apr. 26, 1926. 4 Claims. (Cl. 260—134.)

1. The process of converting glycerine into dihydroxyacetone by means of bacteria, which comprises cultivating strongly acidifying bacteria on such nutrient media as contain extractive-substances from vegetable materials to which the glycerine to be converted is added.

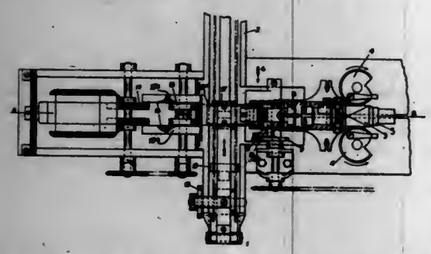
1,755,657. CAUSTIC-SODA SOLUTION OF CELLULOSE. OTTO LEUCHS, Elberfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed July 18, 1927, Serial No. 206,803, and in Germany July 30, 1926. 1 Claim. (Cl. 260—10.)

As a new composition, a solution in which the solvent is a solution of about 10% caustic soda and in which the solute is re-precipitable cellulose.

1,755,658. TEXTILE PAINT. LEONARD CHESTER LORDLY, Elmhurst, N. Y. Filed Oct. 15, 1925. Serial No. 62,648. 3 Claims. (Cl. 8—6.)

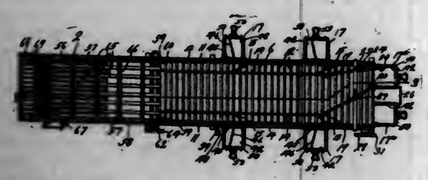
1. A paint for forming designs on textiles consisting of a pure gum tragacanth base with sodium benzoate, acetate of aluminum, and an aniline dye thoroughly and intimately incorporated therein to form a part thereof.

1,755,659. PACKING MACHINERY. WALTER EVERETT MOLINS, Deptford, London, England. Filed Sept. 8, 1927, Serial No. 218,346, and in Great Britain Sept. 8, 1926. 6 Claims. (Cl. 93—2.)



1. In apparatus of the class described, means for conveying one article of a series into a predetermined position, a second conveying means having a path of movement adjacent to and in advance of said position, means for moving a slide of a slide and shell carton into the path of movement of said second conveying means, means for moving the succeeding article of the series to engage and move the first article to position on the slide, and movable means for momentarily retaining the slide in position to receive the article.

1,755,660. ASSORTING TABLE DEFLECTING MEANS. E. LUSTER A. MORROW, Sunnyside, Wash. Filed June 4, 1926. Serial No. 113,685. 2 Claims. (Cl. 198—30.)



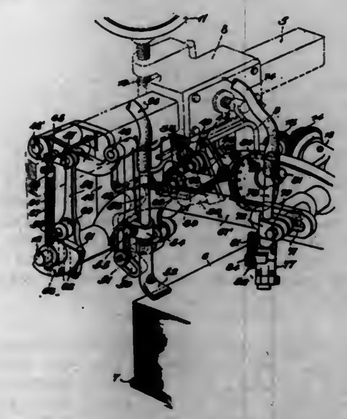
1. The combination with a conveyor, of hinged deflecting members laterally movable above said conveyor, a link connection between said hinged members, a horizontally disposed guide bar above the conveyor, brackets carried by the hinged members and slidably mounted on the guide bar and arching the upper side thereof, said hinged members forming means whereby articles may be discharged into either of two bag holders, and means carried by the guide bar and cooperating with the brackets for holding the deflecting members in position to discharge into either of said bag holders.

1,755,661. DEEP-WELL PUMP. HERBERT PATERSON, Long Beach, Calif. Filed Apr. 16, 1929. Serial No. 355,471. 7 Claims. (Cl. 103—46.)



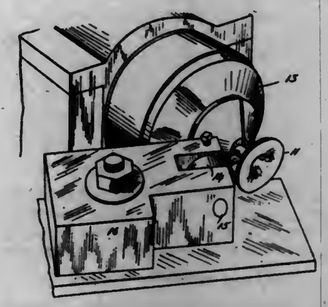
1. In a device of the character described, a casing, fluid conduits associated with the casing, a plug in the casing, inlet ports formed on the casing; ports on the plug communicating with the interior of the casing and with the said inlet ports, a hollow piston carried by the plug, valve casings on the opposite ends of the piston, valves in the casing, and means for forcing fluid through said fluid conduits for operating the piston.

1,755,662. SHEET-FEEDING MECHANISM. ALFRED E. PETERSEN, Ridgefield Park, N. J., assignor to Dexter Folder Company, New York, N. Y., a Corporation of New York. Filed Jan. 7, 1927. Serial No. 159,684. 13 Claims. (Cl. 271—20.)



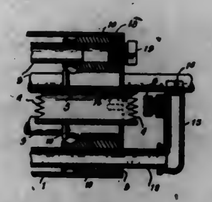
1. The combination with a device adapted to separate a sheet from a pile, of means movable at intervals toward and from the pile and past which said device travels, said means being adapted to deflect back onto the pile any sheet or sheets that may be separated therefrom with said first named sheet.

1,755,663. METHOD OF TRUING VALVE FORGINGS AND THE LIKE. WILLIAM S. POETZINGER, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Mar. 21, 1927. Serial No. 177,174. 8 Claims. (Cl. 153—32.)



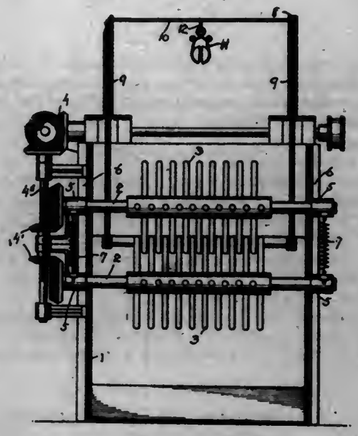
1. The method of truing valve forgings which consists in rotating the valve while hot in a predetermined fixed plane and engaging the head with a truing element arranged in fixed relation to the axis of rotation of the valve, to displace by pressure certain portions of the head to dispose the same uniformly with respect to the stem of the valve.

1,755,664. HYDROCARBON TORCH. WILBERT L. RICHARDSON, Louisville, Ky., assignor to Reynolds Portable Furnace Co., Louisville, Ky., a Corporation of Kentucky. Filed Mar. 13, 1929. Serial No. 346,613. 8 Claims. (Cl. 158—79.)



1. A hydrocarbon burner comprising a plurality of loops grouped about a central line, hollow castings connecting the loops in series to form a preheating coil or generator, and having clean out openings in line with the element of the loops coupled thereto, a casing enclosing the coil, connecting means between the casing and coil, a plate closing the rear end of the casing and having openings in register with the cleanout openings of the hollow castings, a tube supported centrally of the plate and projecting beyond opposite sides thereof and formed at opposite ends with a series of points, said plate having openings exterior to the tube for admission of air, and plugs closing the clean out openings of the hollow castings and connecting them to the plate disposed at the rear of the casing.

1,755,665. MACHINE FOR PLUCKING POULTRY. RALPH W. RICHARDS, Atchison, Kans., assignor to Anna Josephine Richards, Atchison, Kans. Filed Feb. 7, 1929. Serial No. 338,309. 6 Claims. (Cl. 17—11.)



1. In a machine for plucking feathers from poultry, a rotary shaft carrying longitudinal series of radial elastic rubber fingers to form a brush, said fingers being each of elongated form, of circular cross section, and having rounded outer ends.

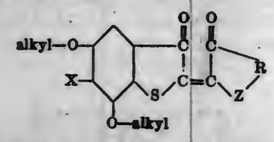
1,755,666. METHOD OF NESTING CAN BODIES. NORBERT J. SCHAAL, Seattle, Wash., assignor, by mesne assignments, to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 30, 1927. Serial No. 179,598. 8 Claims. (Cl. 113—120.)



1. The method of nesting can bodies of the same size having a side seam permanently joining the edges thereof which consists in similarly curving the side wall of the can bodies inwardly from one end thereof to a point adjacent the other end thereof to a gradually decreasing extent, whereby said bodies are tapered and adapted to be fitted telescopically one within another.

1,755,667. VAT DYESTUFF. KARL SCHIRMACHER and KARL EISHOLD, Hochst-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed May 22, 1928, Serial No. 279,846, and in Germany May 30, 1927. 4 Claims. (Cl. 260—53.)

1. As new products, the vat dyestuffs of the following general formula:

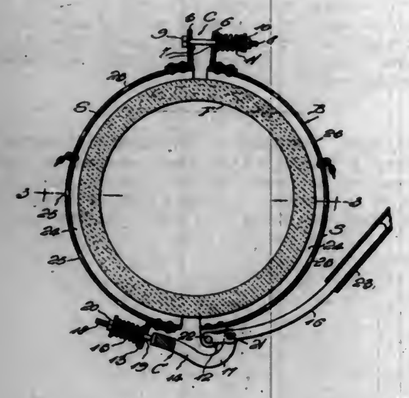


wherein X stands for hydrogen or halogen, Z for sulfur or the NH-group and R for an aromatic residue of the benzene-, naphthalene- or anthracene series which may be substituted in any manner.

1,755,668. PROCESS FOR REFINING THE RAW OIL OF TURPENTINE. FRIEDRICH SCHLOSSER, Hochst-on-the-Main, and MAX PAQUIN, Koenigstein in Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 31, 1925, Serial No. 53,742, and in Germany Sept. 12, 1924. 4 Claims. (Cl. 260—167.)

1. Process for refining the residue of oil of turpentine produced in the manufacture of synthetic camphor which comprises treating the residue with a strong mineral acid.

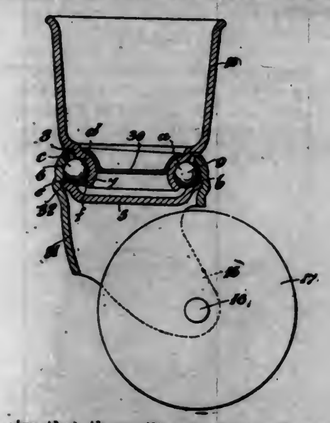
1,755,669. INGOT-FEEDER CLAMP AND SHOULDER SUPPORT. ADAM LEROY SCHWAB, New Philadelphia, Ohio. Filed Apr. 13, 1929. Serial No. 354,890. 9 Claims. (Cl. 22—1.)



1. An ingot feeder clamp comprising a transversely split band consisting of separate sections and circumferentially yieldable connecting means between said sections, and quick releasable clamping means for detachably connecting the ends of the band with each other, said connecting means acting also as hinge means to allow outward swinging of said sections upon disconnection of the band ends by release of said clamping means.

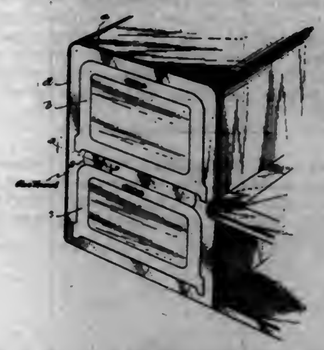
1,755,670. FURNITURE AND LIKE CASTER. HENRY SELBY HELE-SHAW and THOMAS EDWARD BEACHAM, London, England. Filed Mar. 12, 1925, Serial No. 14,907, and in Great Britain Aug. 27, 1924. 6 Claims. (Cl. 16—21.)

1. A roller caster having a ball bearing on its vertical axis, a fixing member carrying one of the races of the ball bearing, a swiveling member carrying the roller and the other race of the ball bearing, each race of the ball bearing consisting of a two-sided groove, the two races being



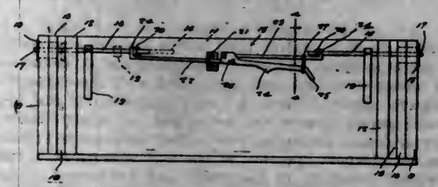
of such a size that they will not engage all the balls at four points, those immediately above the roller being engaged at two points and those at diametrically opposite points in the race being engaged at four points.

1,755,671. STOVE CONSTRUCTION. ALVIN G. SHERMAN, Grosse Pointe, Mich., assignor to The Detroit Vapor Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 7, 1927. Serial No. 166,382. 3 Claims. (Cl. 126—39.)



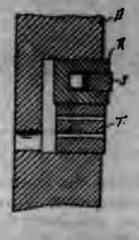
1. In a stove, a glass enamel front frame having a center bar with an offset portion dividing the oven and broiler chamber, a removable threshold facing strip arranged fit nicely in said offset portion flush with the end portions of said center bar so that the facing strip and the end portions of the center bar are in the same plane.

1,755,672. END GATE AND RETAINING MEANS THEREFOR. BERT A. SMITH, Fayette, Iowa. Filed Apr. 30, 1929. Serial No. 359,284. 1 Claim. (Cl. 296—52.)



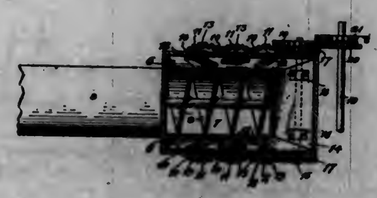
In a structure of the class described, in combination, an end gate provided adjacent its opposite ends with vertical cleats having horizontal holes formed therein, clamping rods slidable and rotatable in said holes, the rods being provided at their outer ends with T-heads and adjacent their inner ends with stop collars, a handle mounted on the intermediate portion of each rod, a bracket on the intermediate portion of the end gate, a link slidably mounted on said bracket, a lever pivotally connected to said link, a second link pivotally connected to said lever, retaining means cooperable with the lever and the last named link, the outer end portions of said links being directed laterally and formed with openings for passage of the collar equipped ends of said rods.

1,755,673. PISTON RING. DEAN M. SOLENBERGER, Kansas City, Mo., assignor to Simplex Piston Ring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 1, 1926. Serial No. 91,600. 7 Claims. (Cl. 74—109.)



1. The combination with a cylinder and a piston loosely fitting the same provided with a ring groove, of a ring in said groove and resilient axially expansible means for developing a predetermined friction between said ring and a wall of the groove sufficient to retard transverse movement of the piston under lateral thrust due to connecting rod angularity to substantially eliminate audible contact with the cylinder wall.

1,755,674. AGITATING MEANS FOR HOPPERS. CHARLES TAURIAINEN, Houghton, Mich. Filed Apr. 29, 1929. Serial No. 359,151. 1 Claim. (Cl. 221—120.)



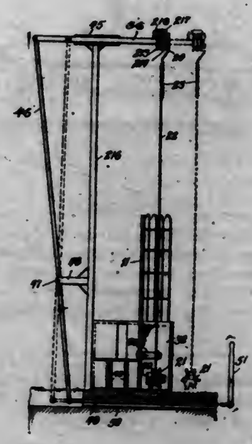
In combination with a hopper having side walls provided with opposed downwardly converging portions; short inclined shafts passing rotatably through said opposed wall portions at horisontally spaced points, inclined agitators secured to the inner ends of said shafts and lying against the inner sides of said wall portions, inclined spur gears secured to the outer ends of said shafts and lying against the outer sides of said wall portions, two of said inclined gears being disposed near one end of said hopper and all of said inclined gears at each side of the hopper being in mesh with each other, a transverse horisontal drive shaft mounted at said one end of the hopper, and vertical spur gears secured to said horisontal shaft and meshing with said two inclined gears.

1,755,675. BILLIARD TABLE. JOHN TAYLOR, Exeter, N. H. Filed Mar. 11, 1929. Serial No. 346,681. 1 Claim. (Cl. 273—128.)



A game of the class described comprising a table having side walls extending upwardly above the surface of the table whereby to retain a ball upon the surface thereof, a plurality of pockets formed in the surface of the table adjacent one end thereof, a bell positioned upon the surface of the table in advance of said pockets and adapted to be struck by the ball in a manner to deflect same in its travel toward the pockets and a guard extending from one side of the bell to prevent the striking of the ball upon the approach of the ball at the side provided with said guard.

1,755,676. DOG-RACING APPARATUS. WILLIAM R. TWIFORD and GEORGE OEHLER, Miami, Fla. Filed Mar. 26, 1927. Serial No. 178,736. 7 Claims. (Cl. 272—4.)



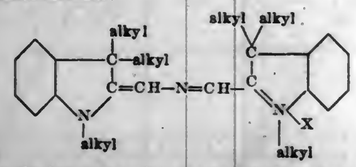
4. An apparatus of the class described, including an overhead tramway cable, a lure suspended from said cable, movable means constituting a barrier and adapted to be disposed in the path of travel of the lure, and means to deflect said cable so that the lure will clear the barrier and pass the same without interception.

1,755,677. PROCESS OF MANUFACTURING BASIC CALCIUM HYPOCHLORITES. SABURO URANO, Takatacho, near Tokyo, and SEICHIRO IMAI, Okucho, near Tokyo, Japan. Filed Mar. 15, 1926. Serial No. 94,941. 1 Claim. (Cl. 23—86.)

A process for making stable bleaching powder, which consists in evaporating the solution of the bleaching powder under vacuum at temperature 40 degrees C., crystallizing out dibasic calcium hypochloride, owing to the combination of calcium hydroxide, with calcium hypochlorite leaving calcium chloride in the solution.

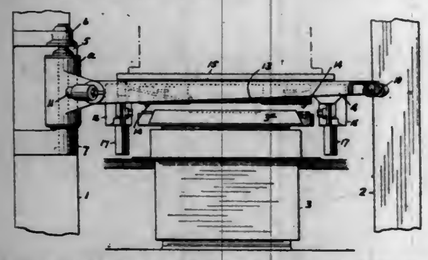
1,755,678. DYESTUFFS DERIVED FROM INDOLINE BASES AND PROCESS FOR PREPARING SAME. OTTMAR WAHL, Leverkusen, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 26, 1927, Serial No. 186,829, and in Germany May 3, 1926. 5 Claims. (Cl. 260—47.)

3. As new products dyestuffs corresponding probably to the general formula:



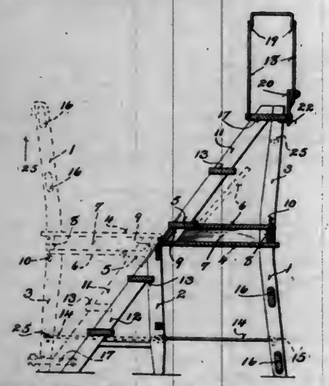
wherein the benzene nuclei may be substituted or not and X stands for an organic or inorganic acid radicle, which are in a dry state yellow to orange-red crystalline powders, soluble in water with light yellow to organge-red color, and which dye natural and artificial silk and cotton when using tannin or other mordants in beautiful greenish-yellow to reddish-yellow shades of good fastness to light.

1,755,679. MOLDING MACHINE. FRANK R. WALLACE, Philadelphia, Pa., assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 17, 1928. Serial No. 247,271. 5 Claims. (Cl. 22—34.)



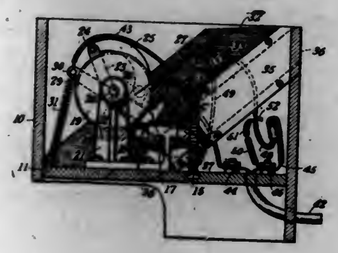
1. In a molding machine a standard, a swinging hollow frame, hinge means between the standard and frame constructed and arranged to permit horizontal turning and oppose vertical sliding movement, and a second frame seated on the swinging frame and disconnected therewith for freedom of upward motion.

1,755,680. COMBINATION CHAIR AND LADDER. ADOLF WURST, St. Francis, Wis. Filed Apr. 27, 1927. Serial No. 186,928. 1 Claim. (Cl. 228—2.)



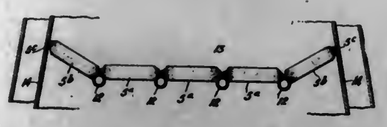
In a device of the class described, the combination of a supporting structure, a pail receiving platform carried thereby, a hook-like member for the reception of the bail of a pail, said member being pivoted to said platform, a locking link pivoted to said member and having an elongated slot terminating in an offset locking portion, and a pin carried by said platform and slidably received in said slot, said pin locking the said link when said pin is located in the offset portion, whereby said hook-like member is temporarily locked in upright position.

1,755,681. PREPAYMENT METER FOR RADIO APPARATUS. GEORGE J. ZISCH, Newark, N. J., assignor to Peter A. Sena and Robert A. Ebert, Newark, N. J. Filed Jan. 18, 1929. Serial No. 333,257. 5 Claims. (Cl. 194—6.)



1. A prepayment meter for electric dispensing devices comprising an electric motor, a reduction gear train driven by the motor, an escapement lever and a spring contact lever carried eccentrically by the last gear of the train, means operative upon the entrance of a coin to form an initial circuit through said escapement lever to start the motor and deliver current, and a terminal engaged by said spring contact lever to continue the electric circuit after the release of the coin until said last gear has made one full and complete revolution at which time the spring contact lever will be removed from engagement with said terminal breaking the circuit.

1,755,682. LOCOMOTIVE ARCH BRICK. ARTHUR F. BECKER, Fulton, Mo., assignor, by mesne assignments, to American Arch Company, a Corporation of Delaware. Filed May 11, 1927. Serial No. 190,633. 7 Claims. (Cl. 110—99.)

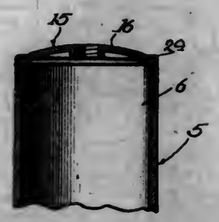


1. A locomotive arch brick of non-uniform thickness having its thinnest portion of greatest density and being progressively less dense toward its thickest portion.

1,755,683. PRODUCTION OF GLUTAMINIC ACID. KARL BROMIG, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold & Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a Corporation. Filed Mar. 8, 1927, Serial No. 173,796, and in Germany Mar. 22, 1926. 3 Claims. (Cl. 260—119.)

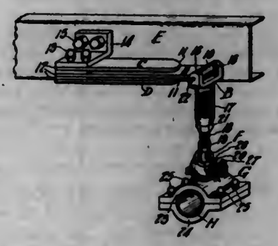
1. Process for preparation of glutaminic acid from sugar residues comprising treating the starting material with hot concentrated hydrochloric acid, separating the hot solution from any deposited solids, cooling and again removing deposited solids, concentrating the solution, cooling to low temperature and saturating with hydrochloric acid gas whereby glutaminic acid hydrochloride separates out on standing.

1,755,684. GREASE PUMP. WILLARD F. CLARK, Chicago, Ill., assignor to Monarch Tool & Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed June 22, 1928. Serial No. 287,462. 2 Claims. (Cl. 221—47.3.)



1. A grease pump comprising a cylindrical barrel formed of a tubular piece of metal, one end of said barrel being bored to form an annular shoulder and a comparatively thin wall, a circular head for closing said one end of the barrel, the marginal portion of the head being arranged against the annular shoulder and connected to the central portion by an offset part so as to form an annular recess on the outer face of the head, the outer end of the aforesaid wall being rolled inwardly and fitting in the recess to secure said marginal portion of the head in its operative position against the shoulder, means for closing the other end of the barrel, and a piston slidably mounted in the barrel and operable to force grease therefrom.

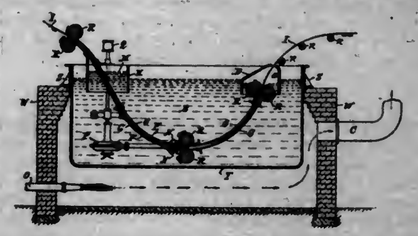
1,755,685. SHOCK-ABSORBER MEANS FOR VEHICLES. EDWIN F. COWLEY, Cleveland, Ohio, assignor of one-half to William E. Brandt, Cleveland, Ohio. Filed May 9, 1925. Serial No. 29,085. 9 Claims. (Cl. 267—45.)



1. A spring having a main leaf flexible individually within a certain limit in two sidewise directions, an ancillary leaf at each side of said main leaf and arranged so that each of said ancillary leaves is brought under tension individually when said main leaf is flexed beyond said certain limit at the corresponding ones of said sides, one portion of all of said leaves rigidly connected together to permanently hold the same in the relation set forth, and means on the free portion of said main leaf for suspension on an associated structure, and comprising a normally unrotatable yoke swivable on said free portion of the main leaf and a stud threaded to said yoke and having a ball seat on the associated structure.

1,755,686. COATED METAL AND PROCESS OF MAKING THE SAME. FREDRIK W. DE JAHN and JOSEPH G. DELY, New York, N. Y., assignors to Chemical Research & Designing Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1929. Serial No. 398,734. 6 Claims. (Cl. 91—70.2.)

1. A method of coating metals with a metal protective layer which consists in preparing a molten mass whose dominant constituent comprises metal belonging to Group IV in Mendelejeff's Periodic System and having a melting point lower than 400° C., said molten mass containing in addition such an amount of bismuth and of copper as is sufficient to cause the protective layer to adhere to the metal to be coated, but insufficient to cause precipitation



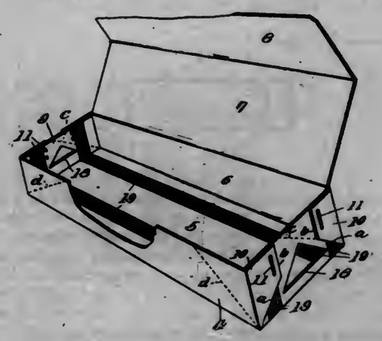
of crystals on such metal, and then bringing the metal to be coated into contact with the molten mass and forming a layer of the latter upon the former, and causing said layer to congeal.

1,755,687. WEATHER STRIPPING. WILLIAM J. DENNIS, Chicago, Ill. Filed Feb. 21, 1927. Serial No. 170,034. 2 Claims. (Cl. 20—69.)



1. A weather stripping having a yieldable filler body, a flexible outer cover for said filler body with edges extending in contacting relation transversely of said body and folded backward toward and terminating adjacent said body portion, a single row of stitching through the four ply structure thus formed, said stitching adjacent and substantially parallel to said body portion to form an attaching flange, and a supplemental cover of rubber disposed between said cover and said filler body and enclosing said filler body to provide a moisture proof casing for said filler body.

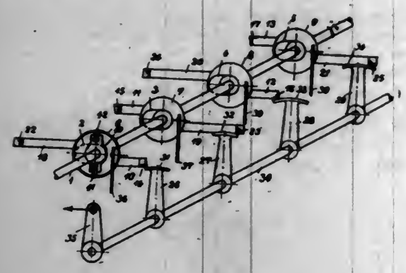
1,755,688. EGG CARTON. LEON BENOIT, Chicago, Ill. Filed Sept. 14, 1928. Serial No. 305,911. 4 Claims. (Cl. 229—30.)



1. A carton formed from a cardboard blank bent to provide a front, bottom, back and cover in the order named, the front, back and bottom having integrally formed extensions forming ends for the carton, said bottom and its extensions being provided with transversely spaced groups of longitudinally extending corrugations for reinforcing the carton, the extensions of the front and back being bent

at right angles into engagement with the bottom extensions and terminating in spaced relation with their upper edges parallel to the bottom of the box and their lower edges inclined upwardly from the lower corner of the box and defining a bend line, a fastener element securing the extremities of the front and back extensions to the bottom extensions, and a ventilating opening in the end of the box between the front and rear extensions.

1,755,689. ELECTRICAL SWITCHING APPARATUS. FRIEDRICH DUWE, Mainz, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany, a Corporation of Germany. Filed Jan. 25, 1928, Serial No. 249,325, and in Germany Mar. 12, 1927. 2 Claims. (Cl. 200—17.)



1. In electric switching apparatus, the combination with a control member, of a shaft adapted to be rotated thereby, an operating lever mounted on said shaft, a continually rotating shaft, a contact member, a friction coupling intermediate said contact member and said second shaft, a contact spring to be engaged by said contact member, and two arms radially extending from said contact member in opposite directions, either being adapted to engage said operating lever, the arrangement being such that upon the rocking of said first mentioned shaft said operating lever is moved thereby to a position releasing the arm then in engagement with said operating lever allowing said contact member to be moved by said continually rotating shaft to a new switching position and being held therein by the other arm.

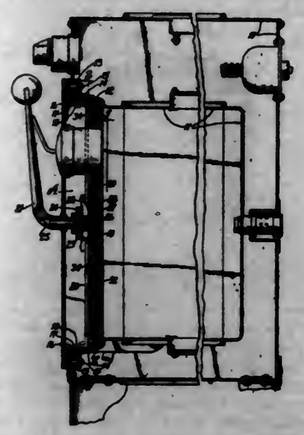
1,755,690. FOLDABLE BOX. JACOB C. HEIM, Philadelphia, Pa., assignor to Brown & Bailey Company, a Corporation of Pennsylvania. Filed July 13, 1928. Serial No. 292,530. 2 Claims. (Cl. 229—38.)



1. A box formed from a unitary blank of foldable material comprising a top, a bottom, sides, means for securing one of said sides to said bottom, and double closures for each end of the box, each closure comprising a panel, foldable resilient wing members on each panel adapted to be inserted within said box, the material of the blank at each end thereof being divided between the adjacent closure panels to form a pair of the said wing members.

1,755,691. DOOR EXPANDER. ROSCOE S. HEISE, Dayton, Ohio. Filed Sept. 29, 1928, Serial No. 309,276. Renewed Mar. 8, 1930. 13 Claims. (Cl. 126—190.)

1. In a structure of the class described, a receptacle having an opening, a door adapted to move into said opening to close the same, said door having a sheet metal facing, means in the door for expanding said sheet metal into contact with said opening to tightly close the same, means for

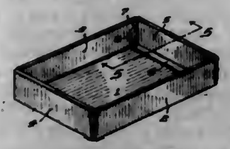


positively drawing said sheet metal inwardly to release said door from the opening, and a member for operating both said means.

1,755,692. PROCESS FOR THE PREPARATION OF CONDENSATION PRODUCTS OF ETHYL ALCOHOL. WILLY O. HERRMANN and ERICH BAUM, Munich, Germany, assignors to Consortium für Elektrochemische Industrie, Munich, Germany. Filed Dec. 2, 1927, Serial No. 237,332, and in Germany Dec. 18, 1926. 12 Claims. (Cl. 260—156.)

1. Process for the production of compounds from ethyl alcohol which comprises passing ethyl alcohol vapors in contact with a non-metallic catalyst normally having a dehydrating or dehydrogenating action on ethyl alcohol, said catalyst being maintained above the temperature at which said normal action takes place.

1,755,693. PACKING AND DISPLAY BOX. ALBERT E. KEPPLER, Philadelphia, Pa., assignor to Brown & Bailey Company, a Corporation of Pennsylvania. Filed May 12, 1928. Serial No. 277,123. 1 Claim. (Cl. 229—34.)



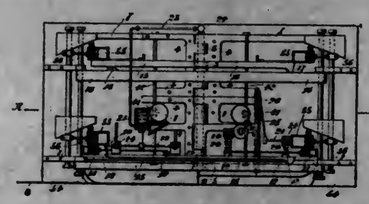
A box formed from a single blank of foldable material and comprising a bottom, outer sides, inner sides provided with cutouts at each end, outer ends, inner ends having tongue members extending from each end thereof and adapted to fit snugly within said cutouts, said tongue members being extended to the bottom of the box when in interlocked relation with the cutouts of the inner sides, extensions to said outer side members lying between each pair of inner and outer ends, and tabs extending from said inner ends adapted to be bent and bear against the bottom of the box, said tabs extending entirely across the bottom of the box between the tongue members and engaging the lower ends of the same and retaining the tongue members in interlocked relation with the said inner sides.

1,755,694. PACKING AND DISPLAY BOX. ALBERT E. KEPPLER, Philadelphia, Pa., assignor to Brown & Bailey Company, a Corporation of Pennsylvania. Filed Apr. 9, 1928. Serial No. 268,526. 1 Claim. (Cl. 229—34.)



A box formed from a single blank of foldable material and comprising a bottom, outer sides, inner sides provided with cutouts at each end, outer ends, inner ends having tongue members extending from each end thereof and adapted to fit snugly within said cutouts, said tongue members extending to the bottom of the box when in interlocked relation with the cutouts of the inner sides, gusset members connected with the ends of said outer sides and outer end members and lying between each pair of inner and outer ends and tabs extending from said inner end members adapted to be bent and bear against the bottom of the box and also extending entirely across the latter to retain the tongues in interlocked relation with the inner sides of the box.

1,755,695. STEAM-OPERATED ICE AND SNOW PLOW. RUDOLF KLIMA and HANS REISCHENBACHER, Salzburg, Austria. Filed Jan. 3, 1927, Serial No. 158,717, and in Austria Jan. 9, 1926. 6 Claims. (Cl. 37—30.)



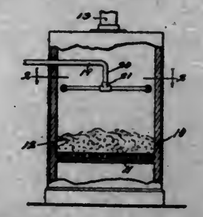
2. A snow plow for railway engines, comprising an upright shaft to be supported centrally of the rails, walls hinged at their adjacent upright sides to said shaft, pressure operated means for each wall to swing the same outwardly about the shaft, and spring means for returning each wall to its initial position.

1,755,696. PERPETUAL DATE INDICATOR. KUAT KLUGE and WALTER BERTHOLD, Berlin-Halensee, Germany. Filed Feb. 19, 1926, Serial No. 89,481, and in Germany Feb. 19, 1925. 10 Claims. (Cl. 40—115.)



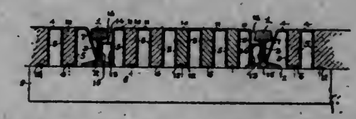
1. A perpetual date indicator comprising a casing having a window therein, a disk marked with the names of the days, a plurality of superposed figure disks of equal diameter different from that of the day disk and numbered with the dates of the consecutive sections of the month, a month indicative disk next to and different in diameter from the day and figure disks, teeth on said disks, and pawl means adapted to be actuated once a day to act on said teeth, said teeth being so disposed that they cause adjustment of the disks correctly each day, allowing for the length of the month and for the leap year.

1,755,697. FURNACE DEVICE FOR ENHANCING COMBUSTION OF FUEL. FRANK LEBECKWICZ, Chicago, Ill. Filed Aug. 13, 1928. Serial No. 299,240. 4 Claims. (Cl. 110—81.)



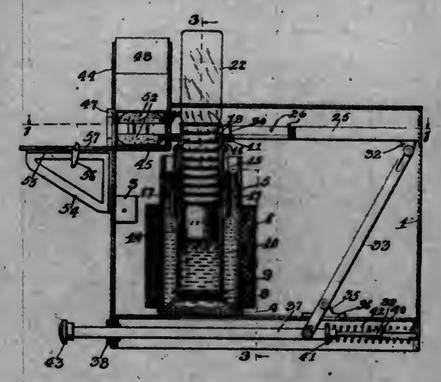
1. In combination with a furnace, a fuel saving device comprising a water supplying pipe, a plurality of pipes horizontally and uniformly arranged within the furnace, and said latter pipes being provided throughout their length with minute apertures in their upper walls and directed toward the top of the furnace and away from the bed of fuel for causing the spraying of water in an upward direction to prevent clogging of the apertures and to more uniformly dampen the bed of fuel.

1,755,698. HIGHWAY RAILROAD CROSSING. CHARLES M. LIEB, Valparaiso, Ind. Filed Oct. 8, 1928. Serial No. 310,984. 10 Claims. (Cl. 238—8.)



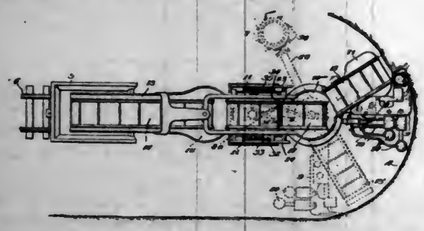
1. A composite highway material comprising a metallic sheet formed into relatively deep corrugations having tread and base portions uniting them, a support for the base portions positioned at points throughout their length, and a suitable paving material positioned in the corrugations on one side of the sheet.

1,755,699. DISPENSING MACHINE. ALEXANDER L. LOEHR, Milwaukee, Wis., assignor of one-third to Henry F. Stock, Waukesha, Wis. Filed Nov. 23, 1929. Serial No. 409,260. 7 Claims. (Cl. 107—1.)



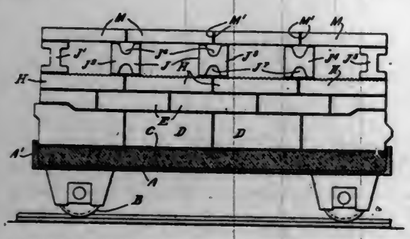
7. In a machine of the class described, a housing having an opening, means for supporting sandwich layers in spaced relation adjacent the opening, means in the housing for containing and supporting a plurality of fillers with the uppermost filler aligned with the space between the sandwich layers, means for consecutively feeding the fillers between the sandwich layers and then forcing the layers and filler from the housing.

1,755,700. KERF CUTTER FOR MINING APPARATUS. EDMUND C. MORGAN, deceased, New York, N. Y., by Olive Eugenie Morgan, executrix, New York, N. Y. Original application filed Dec. 23, 1919, Serial No. 346,903. Divided and this application filed Oct. 17, 1927. Serial No. 226,690. 12 Claims. (Cl. 262—19.)



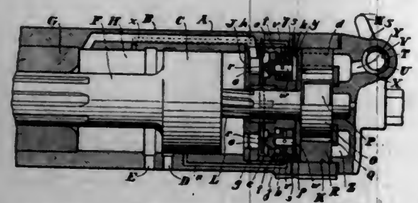
6. In a mining machine, the combination with a main frame, of a kerf-cutter and universally adjustable supporting mechanism for said kerf-cutter comprising concentric rings between said main frame and said kerf-cutter.

1,755,701. TUNNEL-KILN CAR. GEORGE D. MORRIS, New Castle, Pa., assignor to New Castle Refractories Company, New Castle, Pa., a Corporation of Delaware. Filed Aug. 27, 1928. Serial No. 302,232. 6 Claims. (Cl. 25—142.)



1. A tunnel kiln car comprising a metallic bottom frame member, a refractory body portion mounted thereon, transverse girders mounted on said body portion and having a longitudinally extending recess in the top surface thereof, and a goods supporting platform consisting of a plurality of slabs supported by said girders, adjacent slabs being arranged with the joint therebetween positioned over one of said recesses.

1,755,702. VALVE MECHANISM FOR ROCK DRILLS. THOMAS L. MURPHY, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 21, 1928. Serial No. 307,486. 4 Claims. (Cl. 121—19.)

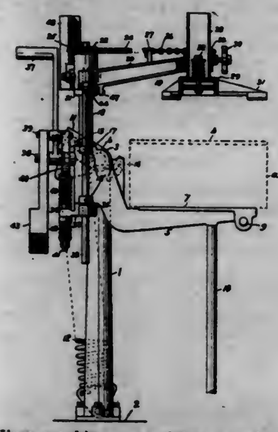


1. In a fluid actuated rock drill, the combination of a cylinder and a piston, a free exhaust port in the cylinder controlled by the piston, a valve chest having a valve chamber, inlet passages leading from the valve chamber to the cylinder, an oscillatory plate valve in the valve chamber to control the inlet passages, plunger chambers in the valve chest, plungers in the plunger chambers extending into the valve chamber, and piston controlled kicker passages for conveying pressure fluid from the cylinder to the plunger chambers to press said plungers against the valve and hold said valve stationary during the admission of pressure fluid to the ends of the cylinder.

1,755,703. TREATMENT OF RUBBER. PAUL I. MURRILL, Plainfield, N. J., and WALTER W. EVANS, New Rochelle, N. Y., assignors to R. T. Vanderbilt Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 28, 1927. Serial No. 221,608. 10 Claims. (Cl. 18—50.)

10. A vulcanized rubber composition combined before vulcanization with a small amount of a condensation product of aldol with ethylene diphenyl diamine.

1,755,704. MOLDING MACHINE. JOHN T. RAMSDEN, Philadelphia, Pa., assignor to The Tabor Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 5, 1927. Serial No. 231,308. 7 Claims. (Cl. 22—83.)



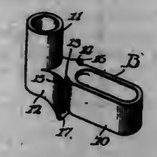
1. A molding machine comprising a column provided with stops, a rollover frame at the top of the column and adapted to rest on the stops in pattern drawing position and to be turned into mold making position, a clamping head provided with a leveling device and slidably mounted in the frame, an operating handle carried by the frame, and mechanism between the handle and head for shifting the latter in respect to the frame to clamp and to pattern draw.

1,755,705. DIAGNOSTIC OPTICAL INSTRUMENT. JAMES E. REID, Moorestown, N. J. Filed June 4, 1928. Serial No. 282,641. 3 Claims. (Cl. 88—20.)



2. An optical diagnostic instrument having a stem, a reflector at the upper part of the stem, a lamp in the stem, a lens and a tubular lens carrier, a lantern structure projecting from and forming part of the wall of the stem and arranged at the front of the instrument to receive light from the lamp, and a transparency arranged at the end of the lantern structure.

1,755,706. BIRD FOUNTAIN. ARTHUR ST. GEORGE, Chicago, Ill. Filed Aug. 17, 1927. Serial No. 213,461. 1 Claim. (Cl. 119—18.)



A bird fountain adapted to be supported by the bars of a cage, said fountain comprising a fountain head adapted to serve as a reservoir, and a fountain bracket having a single pair of vertical grooves adapted to receive and hold large or small diameter bars, and means associated with the grooves for limiting the degree of insertion of the bracket so that it cannot be extended inwardly beyond said grooves.

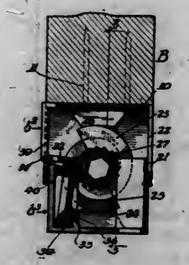
1,755,707. PHOTOGRAPHER'S FLASH GUN. HAROLD R. STOTT, Philadelphia, Pa. Filed June 1, 1928. Serial No. 282,240. 4 Claims. (Cl. 67—32.)



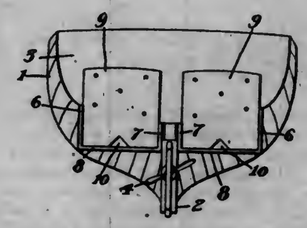
2. The combination of an air tube, a fitting screwed onto one end thereof, a tubular body screwed on to said fitting and forming a powder container, a fitting screwed on to the tubular body, a powder discharging nozzle screwed on to the last named fitting, the last named fitting having a plurality of openings therein affording communication between the tubular body and the nozzle, a manually operable piston within the air tube for discharging air from the same to the container, a yieldable valve device permitting air to pass from the air tube to the container and preventing the return of the air to the air tube, and means to ignite powder discharged from the nozzle.

1,755,708. ADJUSTING DEVICE. ARTHUR H. SYMONS, River Forest, Ill., assignor to Symons Clamp & Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 16, 1927. Serial No. 168,505. 13 Claims. (Cl. 254—104.)

1. The combination with a shore, of an adjusting device composed of slidably connected telescoping sections, one of which is adapted to engage the lower end of the shore, a pair of oppositely arranged rotatable integral cams, abutments on the sections respectively engaged by the cams, a ratchet-wheel rigid with the cams and a dog to engage the ratchet and lock the cams against reverse rotation said dog being enclosed by the sections and having an extension projecting through slots in said sections whereby it may be manipulated out of engagement with the ratchet-wheel.

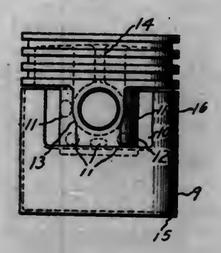


1,755,709. STERN CONSTRUCTION FOR MOTOR BOATS AND THE LIKE. JONATHAN COOK SMALL, Provincetown, Mass. Filed Dec. 10, 1929. Serial No. 413,020. 7 Claims. (Cl. 114—66.5.)



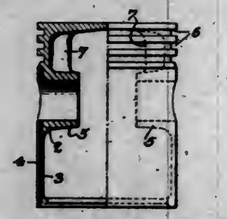
7. In combination with the stern of a motor boat, a pair of auxiliary chamber members disposed one under each counter and having a combined displacement substantially counteractive of the submersion tendency of the propeller at maximum speed.

1,755,710. INTERNAL-COMBUSTION-ENGINE PISTON. HAROLD A. SOULIS and WILBUR T. SOULIS, Easton, Pa. Filed June 30, 1927. Serial No. 202,628. 4 Claims. (Cl. 74—108.)



1. A piston having a shell of cast iron with a thin wall having diametrically opposed recesses therein extending downwardly from its upper edge and a horisontally disposed integral inwardly projecting surface adjacent the base of each of said recesses and a head of a lighter metal cast on said shell to form dependent portions embracing each of said surfaces, said depending portions providing wrist-pin bearings.

1,755,711. INTERNAL-COMBUSTION-ENGINE PISTON. HAROLD A. SOULIS, Easton, Pa. Filed July 30, 1928. Serial No. 296,257. 11 Claims. (Cl. 74—108.)



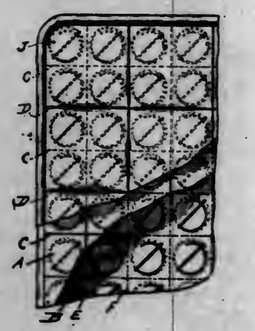
1. An internal combustion engine piston comprising a relatively light body of cast metal, a reinforcing member, wrist pin bosses, a zone where packing ring grooves are cut, a plurality of cast-in bearing particles, all of which are permanently united in casting.

1,755,712. PROCESS OF RECOVERING VOLATILIZABLE METALS FROM ORES OR THE LIKE. HERMANN STEPHANI, Magdeburg, Germany, assignor to the Firm Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Filed Apr. 11, 1927, Serial No. 182,838, and in Germany Apr. 12, 1926. 3 Claims. (Cl. 75—28.)



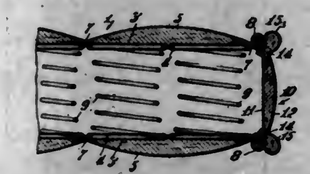
1. A continuous process of recovering volatilizable metals from ores, metalliferous products, metallurgical residues and the like, comprising continuously charging the material mixed with reducing agent into a heated metallurgical furnace, continuously admitting flame and air into the furnace, the flame being admitted at a region remote from the region where the material is charged into the furnace, causing the material to move through the furnace counter-current to the flow of products of combustion from said flame and impinging said flame only adjacent the region of admission thereof upon said material whereby the latter is heated to fusion or sintering temperature characterized in that the material is heated sufficiently to vaporize the bulk of the volatilizable metal before it reaches the region where the flame impinges upon it and it is heated to fusion or sintering temperature.

1,755,713. SPRING-FILLED MATTRESS. LOUIS A. SUSKOFF, Chicago, Ill., assignor of one-half to Fred A. Nachman, Chicago, Ill. Filed Nov. 7, 1928. Serial No. 317,816. 6 Claims. (Cl. 5—351.)



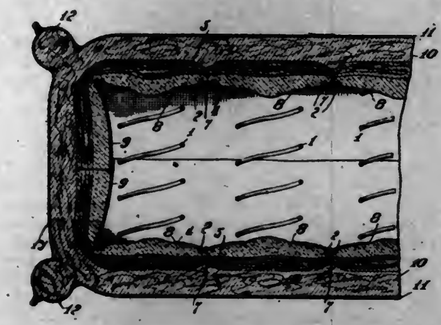
1. A mattress comprising top and bottom wall structures each consisting of two layers of fabric secured together by sets of parallel lines of stitching extending respectively longitudinally and transversely of each other and bordering substantially equal square areas, there being openings in one of said fabric layers in each of the said square areas constituting the mouths of pockets formed between said layers, each of said wall structures including a layer of padding and a cover fabric therefor disposed upon that first-named fabric layer which is devoid of openings, some of the lines of stitching of at least one of the above sets and including the outermost of said lines of stitching extending through the layer of padding and cover fabric, springs interposed between said top and bottom wall structures and having their end coils engaged in said pockets, and a boxing strip secured to the peripheral edges of said top and bottom wall structures.

1,755,714. MATTRESS AND METHOD OF MAKING SAME. LOUIS A. SUSKOFF, Chicago, Ill. Filed May 6, 1929. Serial No. 360,925. 6 Claims. (Cl. 5—360.)



1. The method of finishing mattresses which consists in first completing quilted top and bottom walls of the casing, then applying and securing to the peripheral edge portions of said walls the folded edges of a quilted boring strip and passing stitch-chains through said edge portions of said walls and the folded edge portions of the boxing strip to thereby secure the latter to said walls to complete the casing and at the same time form permanent roll-edges on said casing.

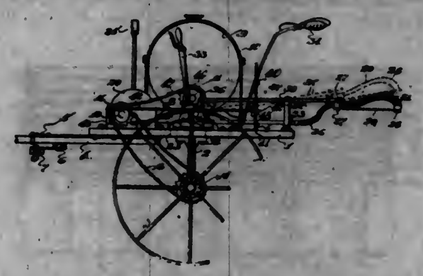
1,755,715. MATTRESS AND CUSHION. LOUIS A. SUSKOFF, Wilmette, Ill. Filed Feb. 10, 1930. Serial No. 427,328. 7 Claims. (Cl. 5—351.)



1. A mattress comprising a spring assembly presenting an outer wall having rough surfaced fibrous biscuit formations, a layer of fibrous padding biscuit formations, a layer of fibrous padding covering said outer wall of said assembly and held firmly in place thereon by interengagement of the fibres of said wall and padding, and a cover fabric housing said assembly and said padding.

1,755,716. LIQUID-SPRAYING MACHINE. WILLIAM H. THOMPSON, Wichita Falls, Tex., assignor to J. W. Duncan, Wichita Falls, Tex. Filed Dec. 16, 1927. Serial No. 240,444. 2 Claims. (Cl. 299—41.)

1. In a liquid spraying machine, a frame, a liquid receptacle carried by the frame, a pipe extending transversely of the frame and communicating with said receptacle, nozzles carried by the pipe, standards projecting upwardly from the frame, a rock shaft on the frame spaced from the standards, radial arms on the shaft, horizontal arms having slots between their ends, means to pivotally



connect the horizontal arms at one end thereof to the radial arms, means to rigidly connect the horizontal arms at their opposite ends to the pipe, and pins on the standards extending through the slots of the horizontal arms to support the latter for vertical pivotal and longitudinal sliding movements.

1,755,717. SAW. KARL WAGNER, Reutlingen, Germany. Filed June 21, 1926, Serial No. 117,584, and in Germany July 31, 1925. 2 Claims. (Cl. 29—105.)



1. A saw, having teeth consisting of separate pieces attached to the saw, said teeth having their cutting edges interrupted by grooves to permit removal of the shavings coming from the side surfaces of the cut in the workpiece in inward direction of the saw, said grooves being milled into said teeth longitudinally of the entire front thereof and being of such depth that after subsequent grinding of the teeth the grooves will still remain at the cutting edges.

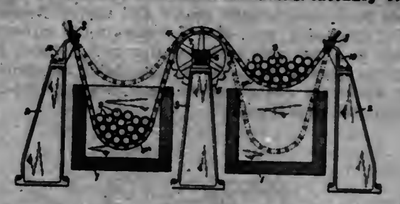
1,755,718. CLAMPING PIN. FREDRICK G. WAGENER, Chicago, Ill. Filed July 29, 1929. Serial No. 381,882. 4 Claims. (Cl. 24—85.)



1. A device of the character described, including; a frame; a securing pin pivotally attached to the frame; a clasp carried by the frame for the end of the securing pin; a clamping bar carried by the frame and adapted to be swung into clamping position adjacent the securing pin to clamp material between the pin and bar; and means for holding the clamping bar in clamping position.

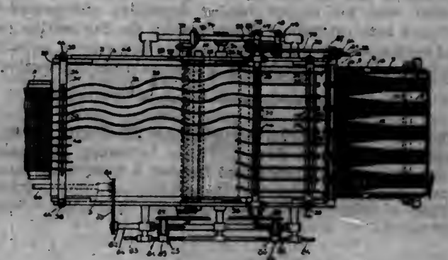
1,755,719. PICKLING APPARATUS. STEPHEN L. WILLIAMS, Bridgeport, Ohio, assignor to Extruded Metal Products Company, Bridgeport, Ohio, a Corporation of Ohio. Filed June 19, 1929. Serial No. 372,158. 7 Claims. (Cl. 266—7.)

7. In combination with companion pickling baths, chains disposed transversely over said baths, means supporting the ends of said chains in fixed positions, rotary supporting means for said chains located between said baths whereby are formed in said chains catenary loops,



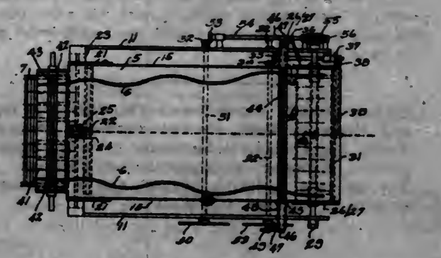
said means being operable to lengthen and shorten said loops being operable to lengthen and shorten said loops alternately for effecting alternate lowering and raising of thereby carried articles with respect to said baths.

1,755,720. APPARATUS FOR HANDLING ARTICLES. ALFRED WINKLER and MAX DÜNNEBIER, Neuwied, Germany. Filed Dec. 18, 1928, Serial No. 326,792, and in Germany Dec. 19, 1927. 16 Claims. (Cl. 198—30.)



1. Apparatus of the character described for the supply of articles in an upright position, comprising conveying means for the articles, guide rails of wavy form, and means for moving said rails transversely to the direction of movement of the said conveying means, for shaking the said articles and bringing them to upright positions.

1,755,721. APPARATUS FOR HANDLING ARTICLES. ALFRED WINKLER and MAX DÜNNEBIER, Neuwied, Germany. Filed Dec. 18, 1928, Serial No. 326,793, and in Germany Feb. 28, 1927. 9 Claims. (Cl. 198—30.)



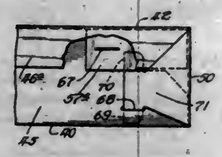
1. Apparatus of the character described for the supply of articles in an upright position, comprising conveying means for the articles, guide rails of wavy form, and means for imparting side movement to the conveying means in its own plane to shake the said articles.

1,755,722. FOLDING BOX. SIGMUND BACHMANN, Chicago, Ill. Filed Oct. 20, 1927. Serial No. 227,479. 11 Claims. (Cl. 229—33.)

1. In a box, a blank comprising bottom, back, top and flap sections hingedly connected together in series and

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divided by creases about which it may be folded, end sections at the ends of the first mentioned sections with fold-creases therebetween, each end section in line with the back section being substantially square and having creases extending diagonally, part of said creases being cut entirely through to permit this square section to fold like a hinge about the diagonal lines, the material being cut about the point where the two diagonals meet to avoid lapping of the material at said point.



3. A box comprising bottom, back, top and flap sections hingedly connected together in series, the flap section on said top section overlapping the flap section on said bottom section, said top section having depending end portions provided with extensions which overlap the flap section on said bottom section and the ends of the flap section on said top section and interlockingly engage said bottom section.

1,755,723. SELF-ALIGNING PITMAN BEARING. RICHARD R. BLOSS and ROY C. PFEIL, Columbus, Ohio, assignors to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed June 7, 1929. Serial No. 369,202. 7 Claims. (Cl. 308—72.)



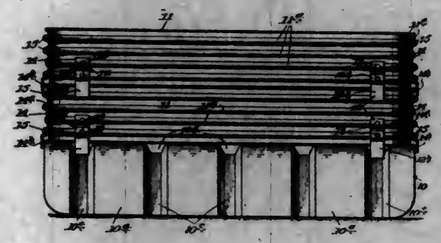
1. A self-aligning bearing structure for a pitman comprising a base mounted to swing with the wrist pin as it tilts, and a cap mounted to slide upon said wrist pin as said wrist pin tilts.

1,755,724. BOAT. ERNST BURMESTER, Burg, near Bremen, and HERMANN HEIN, Bremen, Germany, assignors to Yacht- und Bootswerft Burmester m. b. H., Burg, near Bremen, Germany, a Corporation of Germany. Filed Nov. 26, 1928, Serial No. 322,020, and in Germany Mar. 6, 1928. 7 Claims. (Cl. 9—3.)



1. A boat comprising a plurality of double-sided and stepped transverse seats arranged in the boat, each seat provided with a channel running therethrough, said seats consisting of hollow gas-filled fluid tight chambers.

1,755,725. SECTIONAL BOX AND PLATFORM. CARL L. CLARK and WILLIAM W. GALBREATH, Warren, Ohio, assignors to The Youngstown Pressed Steel Co., Warren, Ohio, a Corporation of Ohio. Filed Nov. 10, 1928. Serial No. 318,371. 1 Claim. (Cl. 220—4.)



A box having vertical side walls and a removable bottom, said bottom carrying vertical flanges adapted to space the same from a support, said flanges having vertical corrugations therein, and said side walls having depending members adapted to engage the corrugations in the flanges of the bottom to prevent relative horizontal movement between the side walls and the bottom.

1,755,726. SAFETY RAZOR. FERNAN OSCAR CONILL, Cannes, France. Filed Nov. 22, 1928, Serial No. 321,105, and in France Aug. 22, 1928. 4 Claims. (Cl. 30—12.)

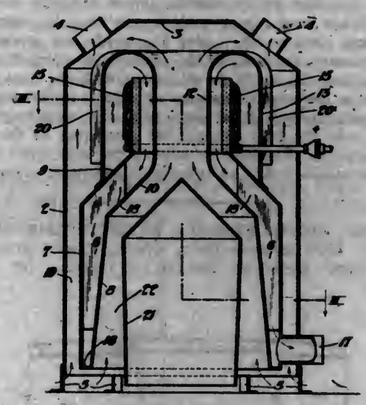


1. In a safety razor, the combination of: a handle; a comb on said handle; a blade; a curved blade support guided by said comb; a stem which passes right through said handle and is guided thereby, said stem carrying said support at one end; detachable means for clamping said blade against said support in an invariable position of curvature; and a nut member forming a prolongation of said handle and screwed on to the other end of said stem, substantially as and for the purposes set forth.

1,755,727. AIR-HEATING FURNACE. ROBERT E. CRAMER, Brentwood, Pa. Filed Nov. 13, 1928. Serial No. 319,121. 4 Claims. (Cl. 126—116.)

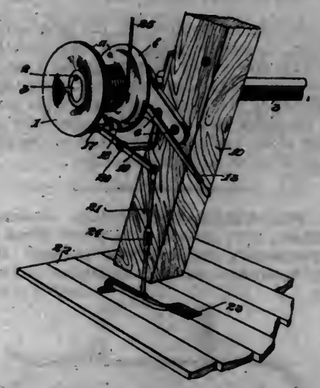
1. A hot air furnace comprising an outer casing having enclosing side and top walls, hot air conduits communicating with the upper end of said casing, an annular wall spaced inwardly from said casing and extending from adjacent the lower end of said casing upwardly to a point intermediate the ends of said casing and then inclined inwardly and upwardly and terminating at a point materially below the upper end of said casing, a second annular wall spaced inwardly from said first named annular wall, said last named wall extending upwardly from a point adjacent the lower end of said first named annular wall to a point adjacent the inwardly and upwardly inclined portion of said first named annular wall and then being inclined inwardly and upwardly in spaced parallel relation to said inclined portion of said first named wall, then extending vertically upward above said first named annular wall and then being reversely bent and extended vertically downward and in contact with the upper face of said inclined portion of said first named annular wall, a bottom wall

closing the space between said first and second named annular walls so as to form a closed heating chamber, the space between said casing and said first named annular wall and said casing and the upper end of said second named annular wall forming a hot air chamber for cold air adapted to enter at the lower end of said casing, a fuel burner in the upper end of said heating chamber above



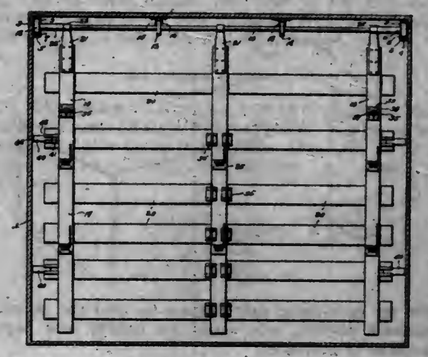
said first named annular wall, a flue communicating with the lower end of said heating chamber, vertical baffles in said heating chamber to prevent short-circuiting of the heated gases and products of combustion, and fins on the outer surface of the reversely bent portion of said second annular wall so as to increase the heated surface in contact with the air to be heated.

1,755,728. COMBINATION MAKE-UP CATHEAD AND FRICTION HOIST. WALTER W. FOSTER, Wichita Falls, Tex. Filed May 23, 1927. Serial No. 193,542. 3 Claims. (Cl. 192—17.)



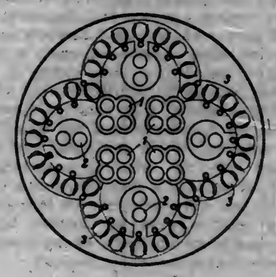
1. In a combination make-up cat-head and friction hoist including in combination with a rotating shaft, the same comprising a member fixed to the shaft to rotate therewith and having a flange, an outer shell freely mounted on said fixed member having flanges, one of which is arranged for frictional engagement with the flange of said fixed member; means to actuate said outer shell to effect such frictional engagement, and means capable of being brought into frictional engagement with the inner surfaces of said shell flanges to arrest rotation of said outer shell when the frictional engagement of said flanges is released.

1,755,729. LOAD BRACE FOR RAILWAY CARS AND THE LIKE. CHARLES E. GOETZ, Benson, Ariz. Filed May 14, 1929. Serial No. 363,009. 9 Claims. (Cl. 105—375.)



1. In a load brace for railway cars and the like, a plurality of tracks on said car, shafts extending between said tracks and having rolls thereon engaging the tracks, gates freely suspended from said shafts, and means on the shafts for preventing lateral shifting of the gates thereon.

1,755,730. GAME. ADOLF GÖSSER, Hennef-Sieg, Germany. Filed Apr. 15, 1929, Serial No. 355,405, and in Germany Aug. 18, 1928. 2 Claims. (Cl. 273—184.)

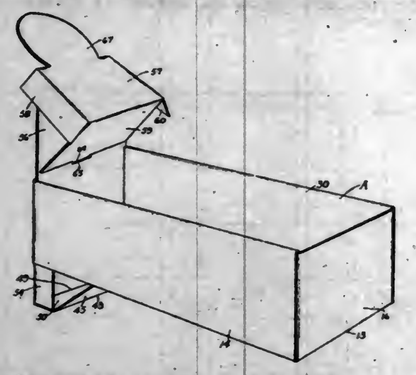


1. A game consisting of a perforated plate, a scoring receptacle below the plate, and balls serving as playing pieces, holes in the plate of smaller diameter than the balls which serve as rests for the balls, large holes in the plate through which the balls may pass and over which are mounted springs having arms serving as rests for the balls during play and between which the balls may be forced, passing through said large holes into the scoring receptacle.

1,755,731. DISPLAY CARTON. REYNOLDS GUYER, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a Corporation of Minnesota. Filed Sept. 20, 1928. Serial No. 307,270. 13 Claims. (Cl. 206—44.)

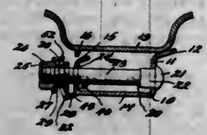
1. A carton comprising a bottom, sides connected to said bottom, an end connected to said bottom, tongues issuing outwardly from said end, end sections extending outwardly from the ends of said sides opposite from said end, tongues on said end sections forming a continuation thereof, said carton being adapted to be folded to

bring said end sections into a common plane and said tongues into the plane of said sides, flaps formed on said



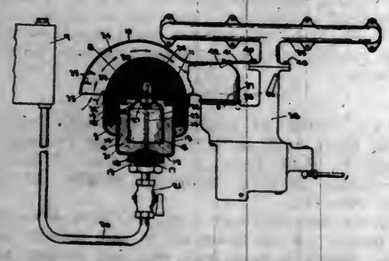
sides for enveloping said tongues to hold the carton in assembled position, and means for holding said flaps in the plane of said sides.

1,755,732. RIM LUG. MATT GZUPKAYTIE, Baltimore, Md. Filed Apr. 6, 1929. Serial No. 353,140. 1 Claim. (Cl. 301—24.)



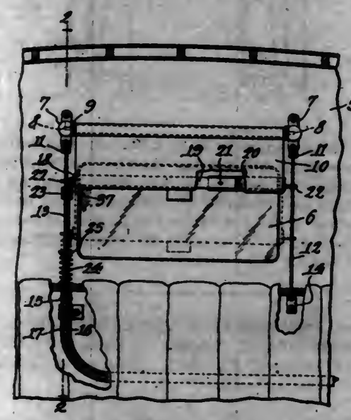
In a device for securing a demountable rim to a wheel, the combination of a bolt carried by the wheel, a nut member and a rim securing lug member thereon, one of said members having a groove and the other a flange engaged in said groove whereby said members are loosely but permanently swivelled together in such a manner that said lug member may be positively swung in either direction as the nut member is turned upon the bolt, a pair of hinge elements projecting from said lug member adjacent the end of the lug member nearest the wheel hub through perforations into the felly of the wheel, and pintle means inside of said felly for retaining said hinge elements, whereby said lug member is constrained to a pivotal movement about its end while being moved into and out of its rim securing position, said lug member being of such length that when in its outwardly swung position it allows the rim to be withdrawn over its free end.

1,755,733. AIR-MOISTENING DEVICE FOR COMBUSTION ENGINES. WILLIAM HAGER and HENRY RIEKERT, Cincinnati, Ohio. Filed Jan. 14, 1928. Serial No. 246,834. 5 Claims. (Cl. 261—99.)



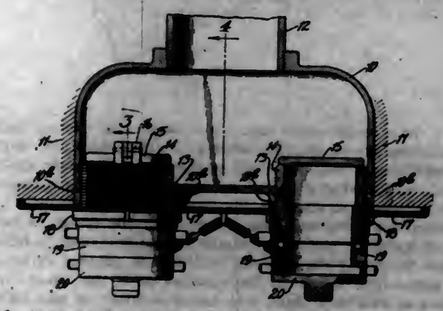
1. In a device of the class described the combination of an inner bowl provided with top, bottom and side walls, an outer bowl communicating with and extending about the inner bowl and forming therewith an annular channel, a bored connection member secured to the bottom wall and adapted for directing through the bore thereof a quantity of fluid from a fluid reservoir, means for controlling the flow of said fluid, comprising a reciprocable needle one end of which may project into the bore of the connection member for closing said bore, a float provided with a longitudinal bore through which the needle may extend, a collar on the needle, levers pivotally mounted on the inner bowl and actuable by the float for exerting a downward force on the collar and needle for moving the needle toward the bore of the connection member, means for retaining the needle in alignment with the bore of the connection member, a quantity of wick material superimposed upon the top of the inner bowl and extending downwardly into the fluid channel for saturation of the wick, and means for directing air toward the wick prior to the entry of said air into an internal combustion engine.

1,755,734. MOTOR-VEHICLE REAR-CURTAIN OPERATOR. EMIL EDWARD HALL, Groton, Conn. Filed July 22, 1929. Serial No. 380,230. 2 Claims. (Cl. 156—28.)



1. An operating mechanism for the rear curtain of a motor vehicle, comprising guide rods, said curtain having a stick having eyes at its ends operating over the rods, a guide piece connected with one end of the curtain stick, a coiled spring in the path of travel of the guide piece to engage the guide piece to restrict downward movement of the guide piece, and a wire attached to the guide piece for moving the guide piece downwardly.

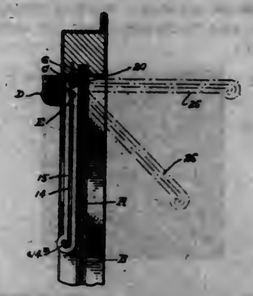
1,755,735. STANDPIPE CONNECTION. ALBERT E. HANSEN, Elkhart, Ind., assignor to Elkhart Brass Manufacturing Company, a Corporation of Indiana. Filed Feb. 2, 1928. Serial No. 251,296. 8 Claims. (Cl. 137—18.)



1. A connection of the character described comprising; a body piece adapted to be built into a wall and having

an opening adapted to receive a pipe connection from the building, the outer side of said body piece adapted to lie substantially flush with the outer surface of said wall and provided with a plurality of threaded openings; a face plate provided with a plurality of holes registering with said last mentioned openings, said face plate provided with a marginal flange adapted to lie outside of said wall and cover the edge of the wall adjacent said body piece; nipples with external threads inserted through the holes in the face plate and screwed into the threaded openings in the outer side of the body piece; and means for holding the face plate against the wall of the building, said means comprising locking rings threaded on the nipples and screwed against the face plate to engage the marginal edges surrounding the holes in said face plate.

1,755,736. SUN SHADE. NELS JENSEN, Grass Valley, Calif. Filed May 16, 1928. Serial No. 278,178. 3 Claims. (Cl. 156—44.)



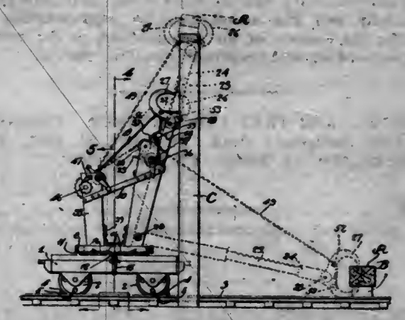
2. A device of the character described comprising a pair of interspaced bracket members, a spring actuated shade roller journalled between said brackets, a longitudinally adjustable rod pivotally secured between the brackets and to one side of the roller, friction means resisting rotation of said rod, a pair of flat arm secured at their upper ends to said rod, one adjacent each bracket, said arms being slotted substantially from end to end and the slots terminating in hook-shaped notches at the lower ends of the arms, a shade cloth secured to the roller, a shade stick secured to the shade cloth, said shade stick extending beyond each end of the shade cloth and projecting through the slotted arms to be guided thereby, said projecting ends of the shade stick adapted to enter the hook-shaped notches at the lower ends of the arms to secure the shade cloth when unrolled, and means permitting longitudinal adjustment of the shade stick.

1,755,737. LAMP SHADE. FRITZ KESSELRING, Furth, Germany. Filed June 30, 1928, Serial No. 289,473, and in Germany Sept. 19, 1927. 1 Claim. (Cl. 240—104.)



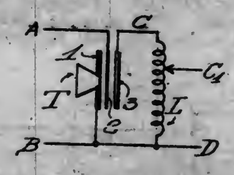
In combination a shade of transparent glass with a mirror foil upon it, said shade consisting of an upper hemispherical part and of a lower parabolic part, the shade being adapted of being put with its hemispherical part on the roundish belly of an electric incandescent lamp, the centre of said hemispherical and of said parabolic part coinciding practically approximately with the centre of the lighting filament of said incandescent lamp, the inner diameter of said hemispherical part being larger than the diameter of the roundish belly of the bulb and means for keeping said hemispherical part of the shade off the belly of the bulb so as to leave an air space between both parts said air space communicating on both sides with the air space outside the shade in order to allow a cooling air current to pass upwardly between the hemispherical part of the shade and the roundish belly of the bulb.

1,755,738. BEAM-HANDLING APPARATUS FOR COAL-MINING AND OTHER OPERATIONS. KOSTANTZ KLEPADLO and ALEXANDER GRATKOWSKI, Scranton, Pa. Filed Sept. 10, 1929. Serial No. 391,556. 5 Claims. (Cl. 212—55.)



1. Apparatus of the character described comprising a truck, a turn table thereon, beam handling mechanism on the turn table, including pairs of guide bars, a beam handling arm pivoted between each pair of guide bars, means for locking the arms to the guide bars, an extension on each arm having gripping jaws at its outer end, and operating means for the extension.

1,755,739. SYSTEM OF MODULATION. JAMES C. KOSITZKY, now, by judicial change of name, James C. Coe, Stillwater, Okla. Filed Nov. 8, 1926. Serial No. 146,984. 4 Claims. (Cl. 179—171.)



1. The method of modulating an alternating current which comprises passing the current through two electrostatic condensers arranged in series, varying the capacity of one of said condensers in accordance with the desired modulation and simultaneously varying the capacity of the other in such manner as to maintain the total capacity of the circuit substantially constant.

1,755,740. REVERSIBLE REAR-VIEW REFLECTOR. FRANK F. LINN and JOSEPH NEELES, North Bend, Oreg., assignors of part interests to Charles L. Shuppy, Thomas N. Campbell, and Julius Ross, Oakland, Calif. Filed May 21, 1927. Serial No. 193,225. 2 Claims. (Cl. 45—97.)

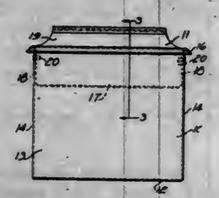
1. In a rear view reflector for automobiles and the like; an integrally formed reflector mounting and attaching member comprising a body having a central portion arranged for attachment to the automobile and laterally

extending arms at and supported by the ends thereof; an extension arm slidably and pivotally secured to one of said arms; and a reversible reflector pivotally carried between



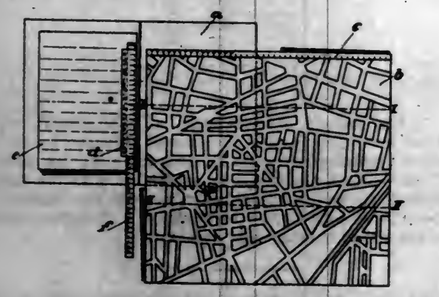
said adjustable arm and the other of said first arms by substantially ball and socket bearings, said bearings permitting the removal of the reflector from or the insertion thereof between said arms upon spreading thereof.

1,755,741. ASH TRAY AND RECEIVER. SYLVANUS D. LOCKE, Bridgeport, Conn. Filed Dec. 24, 1927. Serial No. 242,374. 10 Claims. (Cl. 206—19.5.)



1. In combination, an ash receiver having an upper open end, and an ash tray adapted to rotatably fit in said upper open end of the receiver, said tray and receiver having cooperating pivotal means for the tray, arranged at the opposite sides of the tray and receiver, adapted to permit rotation of said tray upon said receiver between a closed position and an open position, and said cooperating pivotal means adapted to permit removal of the tray from the receiver only when the tray is in open position.

1,755,742. MAP FINDER. FRIEDRICH MATTENKLOTT, Berlin, Germany. Filed June 14, 1927, Serial No. 198,783, and in Germany Oct. 28, 1926. 2 Claims. (Cl. 85—6.)



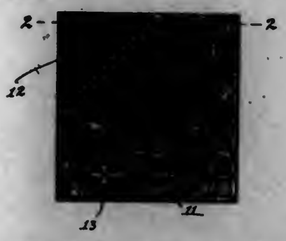
1. In locating means for maps, the combination of a map provided with ordinates at its margin in one direction and foldable in zig-zag manner in the other direction to form a plurality of strips, a guide line on each of said strips, a scaled finder of a length equal to the width of said strips, said finder being fastened to the edge of a directory so as to be movable in said one direction over said strips and provided with a distinguishing scale mark adapted to be brought in alignment with said guide line.

1,755,743. PHONOGRAPH DISK RECORD. EDGAR H. MORRISON, Virginia Beach, Va. Filed Nov. 2, 1928. Serial No. 316,807. 2 Claims. (Cl. 274—42.)



2. In a phonograph record, a circular disk and a hub for said disk forming an inseparable unit therewith, the interior diameter of the hub corresponding to that of the phonograph spindle, and said hub provided with radially projecting prongs lying flat against the side surfaces of the disk.

1,755,744. GOFFERED ARTICLE. ERNST OLOF MUNKTELL, Stockholm, Sweden. Filed May 26, 1926, Serial No. 111,897, and in Sweden May 26, 1925. 2 Claims. (Cl. 154—33.)



2. The process of preparing a thin soft flexible laminated cellulose product which comprises goffering a plurality of thin layers of cellulose wadding laid upon each other, then impregnating the goffered material and thereafter pressing the impregnated material in order to felt the layers of cellulose wadding together and thereafter pressing a pattern on the product.

1,755,745. WEIGHT EQUALIZER FOR DISPENSING GASOLINE, OIL, ETC., FROM STORAGE DRUMS. JOHN W. PARR, Magma, Ariz. Filed May 18, 1927. Serial No. 192,818. 1 Claim. (Cl. 248—52.)



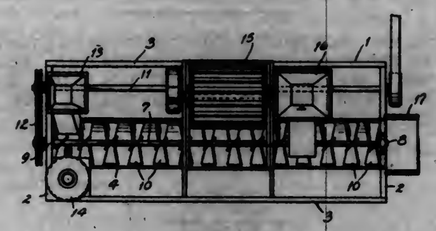
A weight-equaliser frame of suitable size to support a storage drum, said frame comprising a bottom strip, spaced vertical frame members attached to the bottom strip and of substantial height and an over-balancing bar attached to and connecting the upper ends of the aforesaid frame members, means for releasably securing the drum in said frame, pivots mounted on the frame, vertical supports in which the pivots are mounted and a base to which the vertical supports are rigidly secured, and a strip attached to the base and extending in front of the bottom strip of the weight-equaliser frame to function as a stop member to prevent the frame from swinging past a vertical position when it is released from a horisontal position.

1,755,746. POCKET LIGHTER. ALFFOLO PERRERA, Paris, France. Filed Jan. 18, 1927, Serial No. 160,907, and in France Dec. 2, 1926. 6 Claims. (Cl. 67—7.1.)



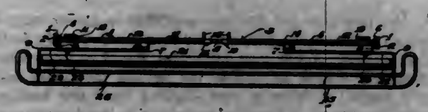
3. A pocket lighter, comprising a body, a supplementary casing in the body, spaced therefrom and connected to the inner wall of the body between the ends of the latter, said body having a slot longitudinal thereof above the point of connection between the body and casing, a wick support in the top of the casing, a pyrophoric device in igniting position to the wick holder, a perforated shield in the space between the body and casing, and a button passing through the slot and connected to the sheath, said sheath having a window positionable between the wick holder and ignition device.

1,755,747. METHOD OF AND APPARATUS FOR SEPARATING SEEDS. WILLIAM A. RICE, Jerseyville, Ill. Filed July 26, 1928. Serial No. 295,433. 2 Claims. (Cl. 209—45.)



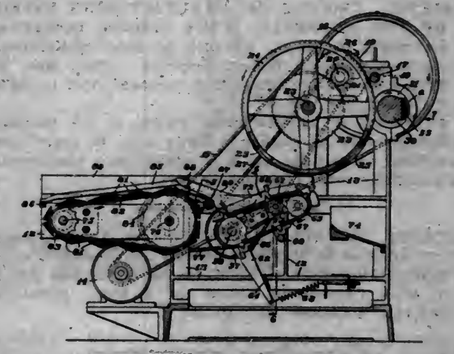
1. The herein described process of separating seeds which become mucilaginous when moistened from seeds which do not become mucilaginous when moistened, which consists in agitating said seed mixture and applying water to moisten said mixture while said seed mixture is in a state of agitation, then conveying said seed mixture while in a state of agitation through a blast of air thereby to remove the moisture from the seeds which do not become mucilaginous when moistened, introducing dry sawdust into said seed mixture while still being agitated, then separating the seeds and sawdust in the usual way by means of screens and fans.

1,755,748. SHADE AND CURTAIN SUPPORT. LULA H. ROBINSON, Dallas, Tex. Filed July 18, 1927. Serial No. 206,464. 2 Claims. (Cl. 156—27.)



2. In a shade and curtain hanger, tracks, an extensible shade and curtain carrier, slidable track engaging latches on the carrier, links secured to the inner ends of the latches, spring pressed means for independently tensioning each of the latches connected thereto and to the carrier, a sliding link for each latch, means to adjustably connect the first named links to the sliding links, means to restrict sliding the sliding links, and operating grips on the inner ends of the sliding links.

1,755,749. MACHINE FOR MARKING ROUND ARTICLES. FREDERICK J. SEVIGNÉ, Milford, N. H., assignor to F. J. Sevigne Machine Company, Nashua, N. H., a Corporation of New Hampshire. Filed May 18, 1929. Serial No. 364,285. 15 Claims. (Cl. 101—40.)

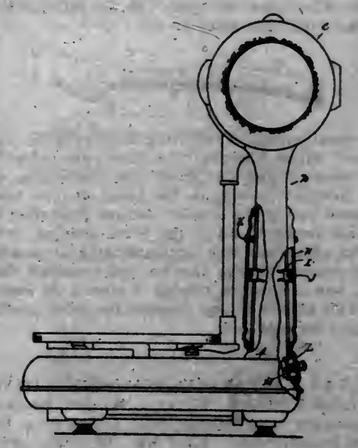


1. A fruit-marking machine having a wheel provided with a printing die, and said wheel being roughened in peripheral alinement with the die, means for inking the die, and means for supplying fruit to position adjacent to the wheel in time for the fruit to be simultaneously marked by the die and rolled along by the wheel.

1,755,750. MANUFACTURE OF ESTERS OF THE BORNEOLS. KARL STEPHAN and FRITZ ULFFERS, Berlin-Charlottenburg, Germany, assignors to Schering-Kahlbaum Aktiengesellschaft, Berlin, Germany. Filed Mar. 30, 1926, Serial No. 98,625, and in Germany Apr. 11, 1925. 2 Claims. (Cl. 260—99.)

1. Process of manufacturing esters of the borneols which consists in heating highly concentrated formic acid with camphene in the presence of pyrophosphoric acid at about 60° C. and taking care that a temperature of 70° C. is not exceeded, distilling off the excess of formic acid and washing the product of the reaction.

1,755,751. SCALE. WALTER F. STIMPSON and WILLIS E. FINCH, Louisville, Ky.; said Finch assignor to said Stimpson. Filed Jan. 26, 1925. Serial No. 4,834. 7 Claims. (Cl. 265—36.)



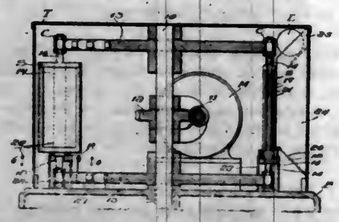
1. In a scale, the combination with a hollow pedestal and a cylinder housing at the upper end thereof, of a

removable end plate for said cylinder housing provided with a marginal flange for telescopically engaging said housing, and a spring clip for retaining said end plate upon said housing.

1,755,752. PROCESS OF MANUFACTURING ESTERS OF THE BORNEOLS. FRITZ ULLYERS, Berlin-Charlottenburg, Germany, assignor to Schering-Kahlbaum Aktiengesellschaft, Berlin, Germany. Filed Mar. 30, 1926, Serial No. 98,626, and in Germany Apr. 11, 1925. 8 Claims. (Cl. 260—99.)

1. Process of manufacturing esters of the borneols, which consists in causing a fatty acid to react upon camphene without the use of a catalyst at a temperature substantially above room temperature.

1,755,753. MOVABLE SIGN. HUGO H. VOSS, Chicago, Ill., assignor to Mayer's Moveable Merchandiser, a Copartnership consisting of Milton M. Mayer and Robert T. Mack, Chicago, Ill. Filed Apr. 5, 1928. Serial No. 267,741. 4 Claims. (Cl. 40—97.)



1. The combination with a flexible sign element comprising a series of sign units, each sign unit consisting of a rectangular plate having opposed faces, a flange surrounding each of said faces at its lower and longitudinal sides, said flange terminating in a lip to form a groove for removably holding a panel bearing display matter, of a housing enclosing said element and having an exhibition opening therein, means for continuously moving said sign element across said exhibition opening, said sign units occupying coplanar positions when passing across said exhibition opening and combining in a relationship to form a unitary sign, and means for reversing said units after passing said opening whereby they combine to form a new unitary sign.

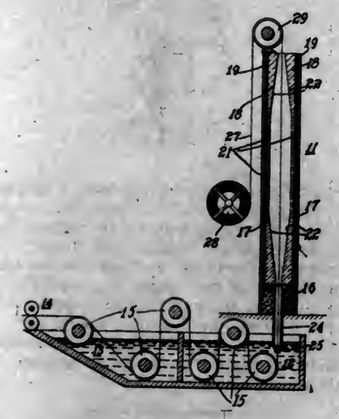
1,755,754. NASAL SYRINGE. REINHOLD H. WAPPLER, Yonkers, and FREDERICK CHARLES WAPPLER, New York, N. Y. Filed Dec. 9, 1927. Serial No. 238,810. 10 Claims. (Cl. 128—240.)



1. A nasal syringe comprising concentrically arranged inner and outer conduits, the inner one comprising a tubular element and the outer one comprising a bored element adapted to engage the inner one in said bore, the forward end of the tubular element projecting slightly beyond the forward end of the bored element, the latter having an additional bore communicating at an agle with the rear position of the annular space around the inner element, and means for forcing a stream of liquid with considerable kinetic energy through the inner conduit and out of said forward end.

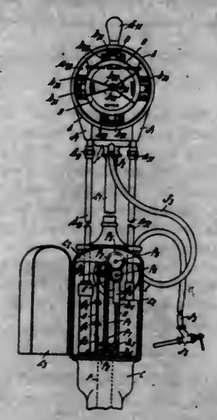
1,755,755. APPARATUS FOR NORMALIZING AND PICKLING METALS. FRANK J. WINDER, Brackenridge, Pa., assignor to Allegheny Steel Company, a Corporation of Pennsylvania. Filed Mar. 16, 1928. Serial No. 262,082. 5 Claims. (Cl. 263—3.)

5. An apparatus for normalising sheet metal including a vertical furnace having an outer metal wall and an inner lining of refractory material, the inner portion of the said normalising apparatus terminating at each of its ends in a tapered reduced portion, a plurality of spaced



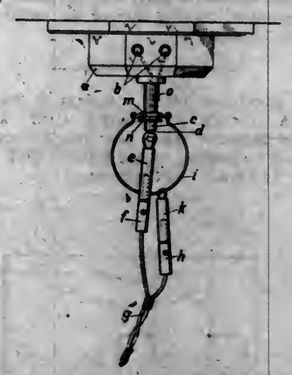
recesses in the refractory lining between the said tapered reduced portions for the reception of burners therein and a sealing boxing for the end of the lower reduced portion.

1,755,756. APPARATUS FOR DELIVERING LIQUIDS IN MEASURED QUANTITIES BY VOLUME. GEORGE WRAY, Southport, England. Filed July 1, 1926, Serial No. 119,857, and in Great Britain Jan. 25, 1926. 15 Claims. (Cl. 221—100.)



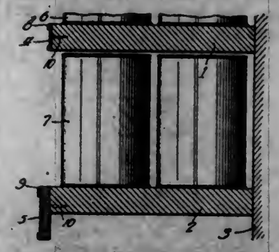
1. In apparatus for delivering liquids in measured quantities by volume in combination;—a fixed casing having a glazed front; a spout to which the liquid to be measured is supplied; means to control the flow of the liquid to the supply spout; a delivery pipe leading from the casing; a measuring vessel rotatably mounted in said casing and divided into a plurality of measuring compartments, each having a glazed front; a fill-pipe for each compartment; an overflow for each compartment, and means for rotating the vessel so as to bring any one of the measuring compartments into which the vessel is divided into the position in which it is filled to the overflow level through its fill-pipe from the supply spout, and afterwards for rotating the vessel so as to bring the said compartment to the discharge position in which it discharges its contents to the delivery pipe; substantially as described.

1,755,757. CONNECTION APPARATUS FOR THE WIRES OF HEAD RECEIVERS FOR BROADCASTING. OTTO ZAHN, Hanau-on-the-Main, Germany. Filed Dec. 1, 1923, Serial No. 323,157, and in Germany June 21, 1928. 1 Claim. (Cl. 173—338.)



An apparatus for connecting to the main line the wires of head receivers for broadcasting, comprising in combination a box, two contact sleeves in said box adapted to be connected to the main line, a sleeve of insulating material downwardly projecting from said box, a metal pin in said insulation sleeve connected to one of said contact sleeves in said box, a ball-shaped head on the lower end of said pin, a plug sleeve loosely mounted on said ball-shaped head so that it can rotate around the same adapted to receive a contact plug from the head receivers, a metal sleeve on said insulation sleeve connected to the second contact sleeve of said box, a collar on said metal sleeve, a metal frame loosely resting on said collar, a ring attached to said frame, and a contact sleeve suspended on said ring designed to receive a contact plug of the other wires of the head receivers.

1,755,758. LABEL HOLDER. FRANK M. ZIMMERMAN, Aurora, Ill. Filed Feb. 20, 1928. Serial No. 255,646. 4 Claims. (Cl. 40—16.)



1. A label holder comprising a molding grooved on its front side to receive a label and having top and bottom flanges turned convergently to hold the edges of the label, the top flange being appreciably wider than the bottom flange, and the bottom flange having an abruptly inclined inner face whereby a V-shaped channel is provided of sufficient acuteness to wedgingly embrace the lower edge of the label and prevent accidental lateral displacement thereof.

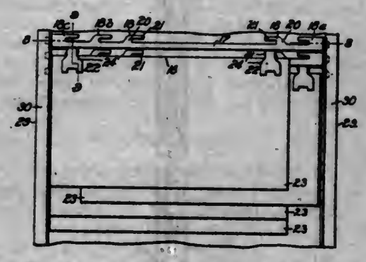
1,755,759. POCKET MICROSCOPE. KARL AHMELS, Kassel, and LUDWIG OHM, Gudensberg, near Kassel, Germany. Filed June 30, 1928. Serial No. 289,455. 3 Claims. (Cl. 88—39.)

1. A pocket microscope, comprising, in combination, an ocular tube and an ocular lens in it; an objective tube and an objective lens in it, this tube being shiftable in the ocular tube, and cut-off obliquely at its lower end so as to



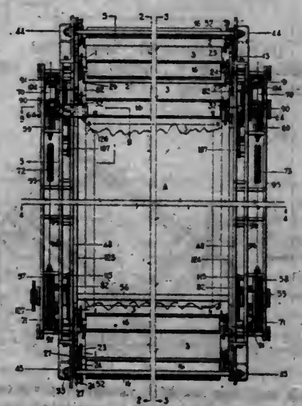
form there a point of support and permit free access of light to the object to be observed, substantially as set forth.

1,755,760. FILE. STANLEY ANTHONY, Boston, Mass. Filed Aug. 2, 1928. Serial No. 297,067. 14 Claims. (Cl. 129—16.7.)



9. In a file, the combination of a main sheet carrier comprising a flat bar having on one edge two projections having tongues whose free ends are directed toward each other, a folded sheet mounted on and receiving said carrier within its fold and provided with perforations through which said projections extend, auxiliary sheet carriers mounted on said tongues, respectively, and an auxiliary sheet carried by said auxiliary sheet carriers.

1,755,761. DISPLAY MACHINE. HENRY ARMSTRONG, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 31, 1928. Serial No. 316,192. 67 Claims. (Cl. 40—31.)



1. In a display machine, the combination of a plurality of pairs of rolls; a carriage for each pair of rolls movable

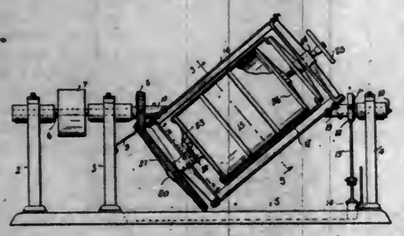
in a closed cycle of movement to carry said pairs of rolls intermittently from starting position in one path across a display area and in a return path remote from the display area back to starting position; curtains connecting the rolls of said pairs of rolls in a closed series; timed mechanism for actuating said carriages intermittently across the display area and the return path; and timed mechanism to effect unrolling of the curtain from the first roll of a pair of rolls moving across the display area and rolling up the curtain previously unrolled on the second roll of the pair of rolls moving across the display area and effecting reverse curtain rolling and unrolling operations during movement of the pairs of rolls in the return path whereby the curtains are rolled on the first roll of the pair of rolls moving to starting position.

1,755,762. SUCKER-ROD GUIDE AND CLEANER. JOHN C. ARMSTRONG, Fillmore, and JOSEPH E. WALLIS, Los Angeles, Calif. Filed Jan. 9, 1929. Serial No. 331,184. 8 Claims. (Cl. 166—18.)



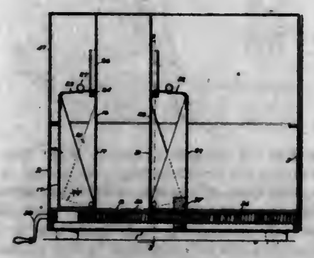
1. For use in combination with a well tubing and a sucker rod, a tubing cleaner embodying: bearing members adapted to be rotatably mounted upon said sucker rod; and radially extending blades interposed between said bearing members, said bearing members comprising a plurality of segments, and collars holding said segments in assembled relation.

1,755,763. DRUM-WASHING MACHINE. JAMES T. BARBER, Brooklyn, N. Y. Filed Nov. 23, 1927. Serial No. 235,389. 3 Claims. (Cl. 141—6.)



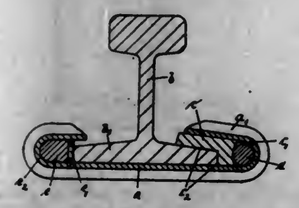
1. A drum washing machine comprising spaced shafts in longitudinal alinement, a frame supported by the shafts at diagonally opposite points, a fixed gear wheel having one of said shafts passing loosely therethrough, a second frame journaled within the before mentioned frame and provided with means for securing the drum to be cleaned, a shaft loosely mounted in both of said frames, a gear wheel fast to the last mentioned shaft and in mesh with the fixed gear wheel, and a ratchet and pawl connection between the last mentioned shaft and the inner frame to admit of independent turning thereof for removing or placing the drum in position.

1,755,764. POSTING TRAY. CURTIS C. BENEDICT and HARLEY A. TULLIS, Los Angeles, Calif., assignors to Flach and Benedict, Inc., Los Angeles, Calif., a Corporation of California. Filed Nov. 2, 1927. Serial No. 230,547. 11 Claims. (Cl. 129—16.)



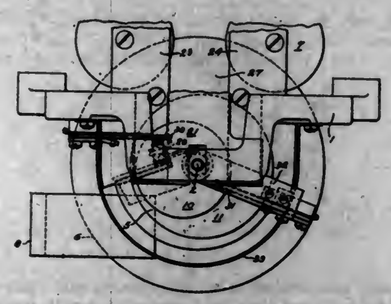
10. In a posting tray, a pair of carriages, each comprising a back plate having offset portions, a sheet-retaining plate pivoted adjacent its lower edge to said offset portions, and a locking plate pivoted to one of said plates and in sliding engagement with the other of said plates, said locking plates being adapted to optionally lock said sheet-retaining plates in parallel relationship to each other or to release the sheet-retaining plates for movement away from each other about their respective pivotal mountings.

1,755,765. RAIL-BONDING MEANS. RUDOLF BÖMO, Rotha/Leipzig, Germany. Filed Feb. 27, 1928, Serial No. 257,442, and in Poland Jan. 3, 1927. 3 Claims. (Cl. 173—262.)



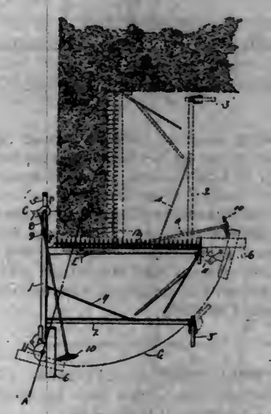
1. A bonding means for railroad rails comprising a one piece yoke adapted to underlie the base flange of the rail and having return bend portions to overlie the base flange, a contact plate of angle form held between one of the base flanges and the return bend of the yoke, and confined against the top and edge portion of one of the flanges of the rail and one of the return bends of the yoke, a wedge arranged between the opposite edge of the base flange and the other return bend of the yoke, and a connector secured between the contact plate and the adjacent return bent portion of the yoke whereby the wedge locks the yoke, contact plate, and connector, to the rail.

1,755,766. DIRECT-CURRENT RELAY. JOHN V. BREISKY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 25, 1925, Serial No. 52,454. Renewed Sept. 11, 1929. 9 Claims. (Cl. 175—339.)



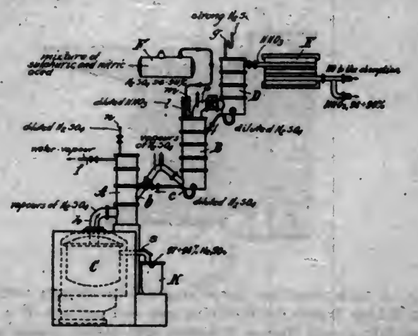
1. A relay comprising a movable magnetizable armature member, a polarized field magnet having a split pole piece co-operating with said armature member and differentially-related windings on the respective portions of said split pole piece for controlling the armature member.

1,755,767. MOTOR AGRICULTURAL MACHINE. ALEXANDER T. BROWN, Syracuse, N. Y. Filed Mar. 21, 1923. Serial No. 626,545. 1 Claim. (Cl. 56—25.)



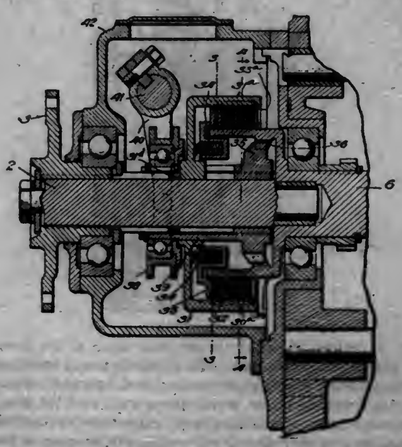
In a motor mowing machine, a lengthwise main frame having a supporting wheel at its front end and a corner turning and tractor wheel at its rear end arranged to normally move in a straight line one behind the other, a mower knife extending laterally from the main frame in the rear of the axis of rotation of the front wheel and near the front end of the frame, the tractor and corner turning wheel being movable into an angular radial position whereby it travels in an arc having approximately the same center as the arc of travel of the front wheel when the machine is turning a corner, the rear corner turning and tractor wheel when in angular position being so arranged relatively to the front wheel that a continuation of the axis of rotation of the rear wheel intersects a continuation of the axis of rotation of the front wheel when in straight position at a point on the inner side of the frame in front of the mower knife whereby both front and rear wheels travel when turning a corner in arcs having approximately the same center located on the inner side of the front wheel in front of the mower knife.

1,755,768. DENITRATION OF WASTE ACID MIXTURES. WILLI BÖSCHING, Halle-Saale, Germany. Filed Aug. 15, 1927, Serial No. 213,025, and in Germany Sept. 3, 1926. 2 Claims. (Cl. 23—161.)



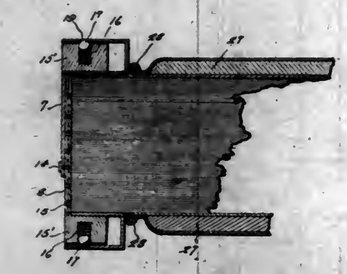
1. A continuous process for denitrating waste acid comprising the steps of concentrating sulphuric acid, leading part of the sulphuric acid vapors into a denitration column in counter-current to a flow of heated waste acid, dephlegmating the remainder of the sulphuric acid by removing the water-steam from the nitric acid, washing the nitric acid vapors with sulphuric acid, condensing the nitric acid vapors to concentrated nitric acid and returning the washing sulphuric acid to the first concentration stage.

1,755,769. TRANSMISSION MECHANISM. GEORGE C. CARHART, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Aug. 9, 1924. Serial No. 731,209. 4 Claims. (Cl. 192—53.)



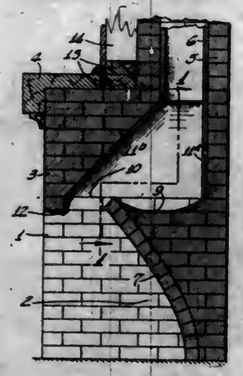
1. In a transmission mechanism, the combination of a transmission shaft and a driven shaft arranged in axial alinement, a clutch mechanism between said shafts comprising a drum mounted on the transmission shaft and enclosing a portion of the driven shaft, the drum having internal teeth, a second drum on the driven shaft having a portion enclosing and spaced apart from the former drum, coacting axially-shiftable elements associated respectively with the drums, a toothed member slidable on the driven shaft within the first drum into and out of engagement with the internal teeth and throw-out mechanism arranged to successively disengage the toothed member from the internal teeth and disengage the friction elements, and to engage said elements and the toothed member with the internal teeth in the reverse order.

1,755,770. LOOSE-LEAF BINDER. JOHN E. CARR, Atlanta, Ga. Filed Feb. 19, 1929. Serial No. 341,206. 4 Claims. (Cl. 129—35.)



1. A book structure comprising a substantially rectangular binder frame for receiving one end portion of a loose leaf filling said frames including side pieces, clamp means on said frame for engagement with said end portion of the filling, and means for varying the width of the frame, said means consisting of a pair of detachable end pieces, said end pieces being each divided into a pair of sections, a lateral head for one end of each section for engagement with one end of one of the frame side pieces, and means for adjustably connecting the other end portions of the complementary sections together.

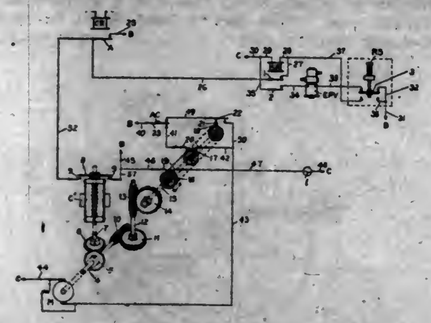
1,755,771. CHIMNEY STRUCTURE. ROY F. CHAMBERS, San Gabriel, Calif. Filed Dec. 5, 1927. Serial No. 237,669. 4 Claims. (Cl. 126—120.)



1. A molded chimney throat liner open at its lower and its upper ends, the rear wall being flat and substantially vertical, the front wall being inclined upwardly and backwardly from its lower to its upper end, and its side walls being upwardly converging with respect to each other and joined to the rear and front walls, all forming a free unobstructed upwardly converging and gradually reducing passage from its lower to its upper end, said liner being adapted to be telescoped over and within other liners for stacking and economically storing the same, the inner surfaces of all walls of one liner, when stacked over another liner, engaging the outer walls of the latter.

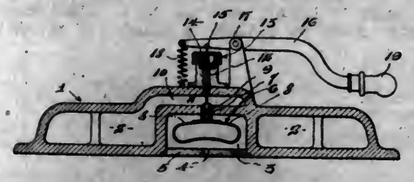
1,755,772. ACKNOWLEDGING DEVICE FOR TRAIN-CONTROL SYSTEMS. CHRISTIAN A. CHRISTOFFERSON, St. Paul, Minn., assignor to The General Railway Signal Company, a Corporation of New York. Filed Jan. 30, 1926. Serial No. 84,960. 10 Claims. (Cl. 246—183.)

1. In an automatic train control system, the combination with a brake applying appliance, a stick relay governing said appliance, means controlled from the trackway for temporarily interrupting the stick circuit of said relay, and



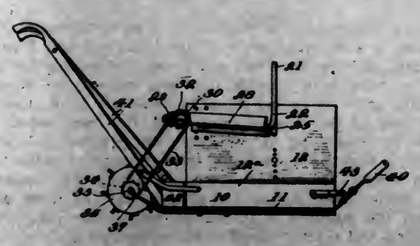
manually operable means for maintaining said relay energized for a limited time, said manually operable means including an electric motor.

1,755,773. PRESSING-MACHINE ELEMENT FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 5, 1928. Serial No. 267,553. 2 Claims. (Cl. 68—9.)



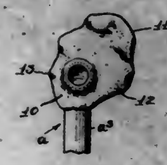
2. A pressing machine element formed with a heated bottom chamber having perforations opening through the pressing face of said element, a closed separator and converter conduit oblong in general form in cross section located within the chamber and spaced from the walls thereof, and having the end portions of its oblong formation lower than its central portion, said conduit having steam outlets in the top side thereof, and its bottom side being imperforate, and means for supplying and controlling the flow of steam to said conduit.

1,755,774. BOLL-WEEVIL CATCHER. HEZAKIAH K. DOWDY, Cordele, Ga. Filed Jan. 15, 1927. Serial No. 161,380. 7 Claims. (Cl. 43—142.)



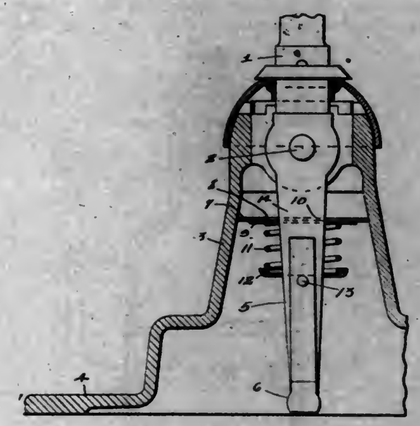
1. A boll weevil catcher comprising a receptacle capable of resting upon and being drawn over the ground in the vicinity of growing plants, a pan for containing a lethal liquid carried by said receptacle, a screen covering said receptacle, the mesh of said screen being sufficiently coarse to permit insects to pass therethrough, but fine enough to prevent passage of leaves, squares and the like, means between the screen and the pan for directing the insects into said pan, means for bending over the growing plants, and agitating means operated by movement of said receptacle for further bending said plants so as to cause them to sweep said screen clear of any accumulations of leaves, squares and the like.

1,755,775. EARPIECE. ANDREW C. DUNN, St. Paul, Minn. Filed Mar. 13, 1923, Serial No. 624,768. Renewed Sept. 16, 1929. 2 Claims. (Cl. 181—23.)



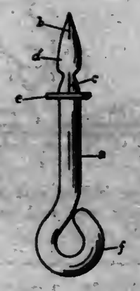
1. An earpiece for a sound conveying tube having a right angular bend therein providing a normally horizontal branch and a normally depending branch, said earpiece comprising a body shaped to fit within the outer ear and formed about the bend in said tube, said body having an opening at its inner side bringing the horizontal branch of the tube into communication with the auditory canal of the ear and formed with proturberances thereon arranged to interlock with the ear folds at either side of said tube.

1,755,776. OIL-TIGHT TRANSMISSION-GEAR HEAD. ERNEST EATON, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 29, 1927. Serial No. 187,638. 4 Claims. (Cl. 74—39.)



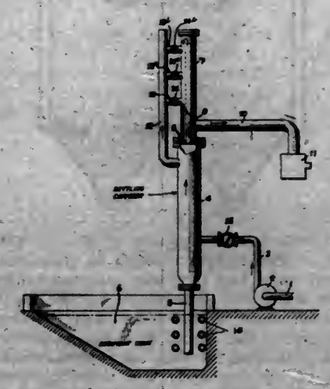
1. The combination of the gear shifting lever of the transmission gearing and the housing in which the lever is pivoted, the lower arm of the lever extending downwardly through the housing and the housing having a transverse partition formed with an opening through which said arm of the lever extends, a sliding closure for the opening in the partition, said closure having an opening substantially fitting the said lever arm, a spring abutment mounted on the lever arm below the closure and a spring interposed between the abutment and the closure.

1,755,777. LANCET. CLAUS FREDERIKSEN, Nordborg, Denmark. Filed Feb. 12, 1929, Serial No. 339,883, and in Germany May 2, 1928. 1 Claim. (Cl. 128—314.)



An instrument of the lancet type for the loosening of the cheese-like mass in the teats of cows, comprising a rod terminally provided with a double edged blade, the rod inwardly of the point being of reduced diameter, and a limiting disk carried by the rod below the portion of reduced diameter.

1,755,778. DISTILLATION APPARATUS. JOHN A. GIBB, New York, N. Y., assignor to Zieley Processes Corporation, New York, N. Y., a Corporation of Maine. Filed Nov. 20, 1925. Serial No. 70,215. 3 Claims. (Cl. 196—114.)

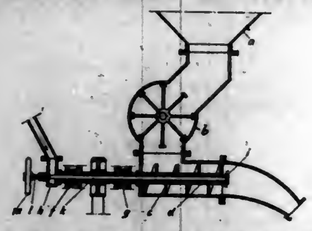


1. In a multi-unit still for the continuous distillation of hydrocarbon oils under vacuum, means forming a continuous passage for oil from one still unit to another, means interposed in said passage for separating sediment from the oil, and means forming an open conduit from said separating means to the atmosphere for the removal of collected sediment, said conduit being sealed by the oil therein, the said passage, separating means and conduit being of a height sufficient to provide a head of liquid therein equal to the difference between atmospheric pressure and the vacuum maintained in said still.

1,755,779. CONVEYER FOR PULVERIZED MATERIAL. PAUL GOEBELS, Dessau, Germany, assignor to the Firm G. Polysius, Dessau, Germany, a Partnership. Filed Oct. 15, 1926, Serial No. 141,816, and in Germany May 5, 1926. 2 Claims. (Cl. 302—50.)

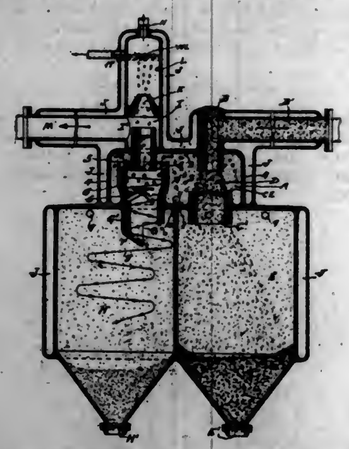
1. A conveyer for comminuted or pulverized material, comprising a driving worm, a hollow shaft therefor, a

nozzle associated with said hollow shaft at its end which is positioned in the conveyer, means for regulating said



nozzle from the other end of said shaft, and means for conveying pressure air into said conveyer through said hollow shaft and said nozzle.

1,755,780. LINE FILTER. CHARLES GILBERT HAWLEY, Chicago, Ill., assignor to Centrifix Corporation, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 8, 1926. Serial No. 93,275. 22 Claims. (Cl. 209—211.)



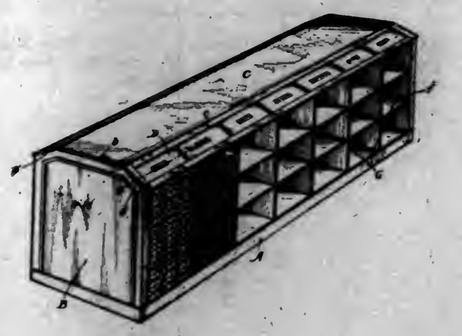
1. The herein described process of filtering fluids without resort to screens that consists in establishing three substantially quiet and vertically extended bodies of the fluid under treatment, cross-connecting the upper end of the first and second of said bodies and cross-connecting the upper end of the second with the lower end of the third body, admitting the fluid longitudinally against the upper end of the first body and thereby depositing its heavier substances therein, subjecting the partly purified fluid to longitudinally downward rotative motion between the second and third bodies and thereby depositing the remaining heavy substances in said second body, directing the twice purified fluid longitudinally against the lower end of the third of said bodies, and thus delivering the lighter substances to the surface of said third body, and, finally directing the movement of the purified fluid from the lower part of said third body.

1,755,781. INSULATING LUMBER OR WALL BOARD. JAMES J. HINDS, Sandusky, Ohio. Filed July 22, 1926. Serial No. 124,276. 2 Claims. (Cl. 154—45.9.)



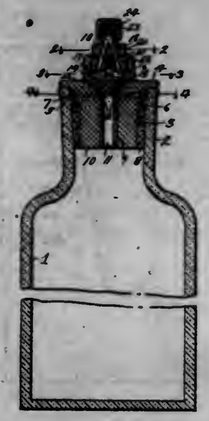
1. A building material composed of layers of the hard fibrous material of the external casing of pithy plants, alternating with the layers composed of the internal pithy structure of said plants.

1,755,782. DISPLAY COUNTER. SEVERN G. HONSTEAD, Nampa, Idaho. Filed Mar. 22, 1928. Serial No. 263,854. 1 Claim. (Cl. 312—118.)



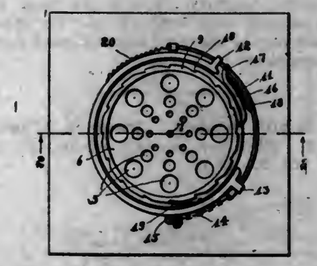
A display case including a base, vertical end walls and partitions having flat central portions and inclined corner portions, a flat counter extending from the flat central end portions of said end walls and resting upon similar portions of said partitions, inclined display windows arranged between the inclined corners of said ends and being supported upon the inclined portions of said partitions, horizontal partitions arranged between the vertical partitions and forming a series of compartments, and removable carriers positioned beneath said display windows and supported on guideways permitting their lateral movement with relation to said windows.

1,755,783. NONREFILLABLE BOTTLE. ANTONIO IMPELLITTERI, New London, Conn. Filed May 18, 1927. Serial No. 192,174. 1 Claim. (Cl. 215—19.)



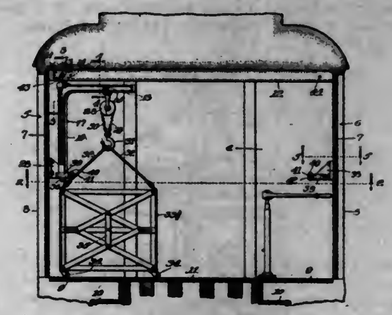
A non-refillable bottle stopper comprising a body member adapted to be received in the neck of a bottle, an axially movable valve sleeve slidably mounted in the body member and having a longitudinal chamber therein and ports extending through the sleeve at opposite sides thereof adjacent its outer end, said body member adjacent the outer end of the sleeve being provided with a chamber, said chamber adjacent the sleeve being of greater diameter than the sleeve and of less diameter than the other portion of the chamber, a valve seat between the two diameters of the chamber, a valve carried by the sleeve and cooperating with the seat, a plug in the chamber of the body member above the valve in spaced relation thereto and having upwardly and inwardly converging and connecting discharge ports, an extension carried by said valve and slidably mounted in a chamber between the inner ends of the discharge ports and a spring cooperating with said extension and forming means for maintaining the valve seated during the non-pouring operation.

1,755,784. CEILING VENT. JAMES JENNER, Los Angeles, Calif., assignor of one-half to Karl Schumacher, Los Angeles, Calif. Filed Apr. 13, 1927. Serial No. 183,568. 2 Claims. (Cl. 98—101.)



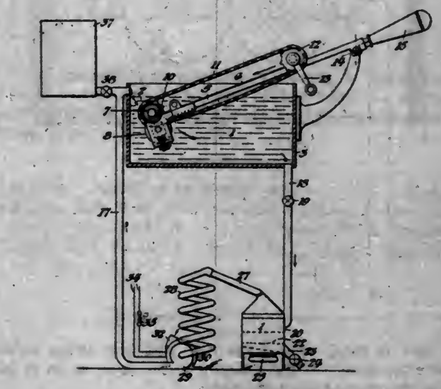
1. A vent of the class described comprising a vent plate, a disc turnably mounted on the vent plate, a ratchet mechanism for rotating the disc in relation to the vent plate, and a chain extending from the ratchet mechanism through the vent plate to protrude from the surface of the vent plate.

1,755,785. LUGGAGE UNLOADER FOR RAILWAY CARS. ALVIN C. MCCORD, Chicago, Ill. Filed Dec. 15, 1927. Serial No. 240,093. 3 Claims. (Cl. 214—65.)



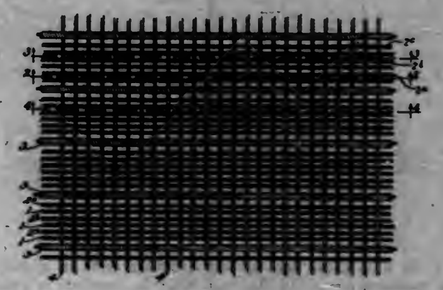
1. The combination with the vestibule of a railway car, of a container for hand luggage, a trackway in the vestibule and extending from side to side thereof, a crane supported by said trackway and shiftable along the same to either side of the vestibule, said crane having a vertical arm and a horizontal arm, means fixed in the vestibule at the opposite sides thereof and providing a pivotal support for the vertical arm whereby the horizontal arm may be swung into and out of the vestibule to either side of the car, and a hoisting device carried by the horizontal arm whereby the container may be lowered from the vestibule at either side of the car.

1,755,786. METHOD OF AND MEANS FOR MAKING TUBES OF CELLULOID AND THE LIKE. WILLIAM MENDEL, Beverly, N. J., assignor to Sanite Corporation, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 14, 1928. Serial No. 319,279. 16 Claims. (Cl. 18—3.)



8. Apparatus for forming celluloid tubing, including means for winding a sheet of celluloid in a roll while immersed in a solvent bath and means for forcibly circulating the solvent in said bath during the winding operation.

1,755,787. ELASTIC WOVEN FABRIC. THOMAS F. MOORE, Westerly, R. I., assignor to George C. Moore Company, Westerly, R. I., a Corporation of Rhode Island. Filed Apr. 25, 1929. Serial No. 357,958. 2 Claims. (Cl. 139—423.)

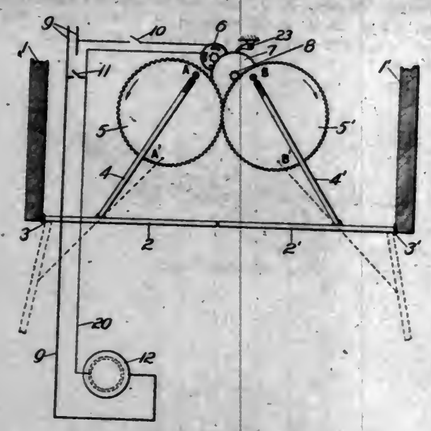


1. Elastic webbing made up of a binder warp, covered rubber warp, and figure warp, with the binder warp and rubber warp being always on the same side of the weft wherever the binder warp changes direction in passing over or under the weft.

1,755,788. GARAGE-DOOR OPENER. ROBERT V. MORSE, Ithaca, N. Y., assignor to Frank L. Morse, Ithaca, N. Y. Filed Sept. 17, 1924. Serial No. 738,217. 2 Claims. (Cl. 268—35.)

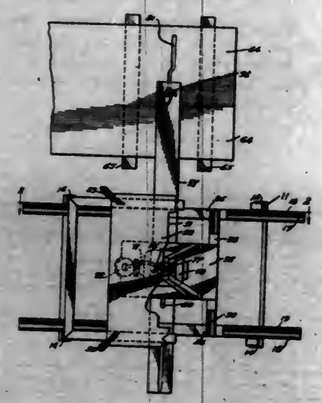
1. In a door opener, the combination of a gear, a door, a link directly connecting said door and said gear, said link being arranged so as to be on dead center when the door is fully open or fully closed, an electric motor ar-

ranged to run in one direction and connected to the gear, the direction of rotation of the gear being such that when



the door is being opened the link will first swing so as to be more nearly at right angles to the door, so as to increase the mechanical advantage.

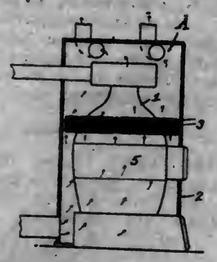
1,755,789. MACHINE FOR CUTTING IRREGULAR SHAPES. CHESTER MOTT, Denver, Colo., assignor, by mesne assignments, to Union Carbide and Carbon Research Laboratories, Inc., a Corporation of New York. Filed Feb. 14, 1928. Serial No. 254,215. 7 Claims. (Cl. 266—23.)



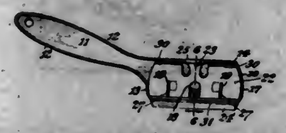
1. In a machine for cutting irregular slots in a plate, the combination of: a floating table; a templet; a guide roller engaging a contour edge of said templet; a driving roller engaging a face of said templet; means for rotating said driving roller, said means permitting a variation of the angle between the plane of said driving roller and a plane including the tangent to said contour edge at the point of contact between said guide roller and said contour edge; and means carried by said floating table for cutting said plate, said last-named means moving through a path followed by said guide roller.

1,755,790. HOT-AIR-FURNACE ATTACHMENT. ELMER R. NEVEL, Lock Haven, Pa. Filed Dec. 29, 1928. Serial No. 329,087. 2 Claims. (Cl. 126—118.)

1. The combination with the combustion chamber of a hot air furnace, of a band encircling said combustion chamber and being spaced therefrom, said band being formed with a series of vertically spaced slots at spaced intervals, a series of vertical radiating fins arranged radially with respect to the combustion chamber, and bendable tongues formed on the inner end of each fin for disposition through the respective slots in the band, the free ends of the tongues being bent laterally for engagement with the inner face of the band, and the outer face of the combustion chamber.

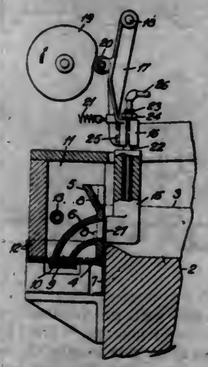


1,755,791. BLADE HOLDER. JOSEPH A. O'NEILL, New York, N. Y. Filed Nov. 28, 1927. Serial No. 236,220. 1 Claim. (Cl. 30—25.)



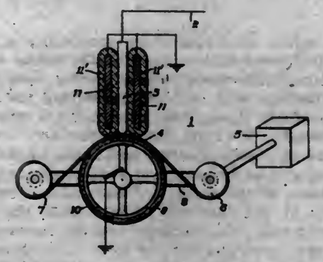
In a blade holder of the class described, a head having a handle disposed at an obtuse angle thereto, said head also having a finger ledge provided with a beaded portion, end flanges, a lock tongue disposed at an angle to its plane and parallel lugs, a guard plate having a finger piece to engage the finger ledge of the head and openings to receive the said lock tongue and lugs of the head for the purpose set forth.

1,755,792. FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Nov. 7, 1924. Serial No. 748,306. 7 Claims. (Cl. 49—55.)



8. Apparatus for feeding molten glass, comprising a container for the glass having a submerged lateral discharge outlet, an impeller disposed in said container, means for moving said impeller periodically toward and from said outlet, a spout block mounted adjacent to said outlet, clamps for removably securing said spout block in place, a spout projecting from said spout block and communicating with said outlet, the said spout being curved outwardly and downwardly, and terminating in a downwardly opening orifice, an orifice ring mounted removably at the discharge end of said spout, an enclosure surrounding said spout, means for heating the interior of said enclosure, and shears for severing mold charges from the glass discharged from said orifice ring.

1,755,793. SURGE RECORDER. JOHN F. PETERS, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 31, 1924, Serial No. 729,426. Renewed Mar. 6, 1929. 16 Claims. (Cl. 234—1.5.)



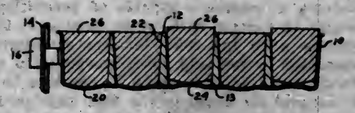
1. An instrument comprising a movable sensitized recording element, means for moving said element, and a shielded electrode adjacent to said element for cooperation therewith, and grounded metallic members for shielding the electrode to limit the area of the element affected thereby.

1,755,794. DISPLAY FORM. LOUIS W. REINHARDT, Brockton, Mass., assignor to George E. Belcher Company, Stoughton, Mass., a Corporation of Massachusetts. Filed June 6, 1925. Serial No. 35,434. 1 Claim. (Cl. 223—18.3.)



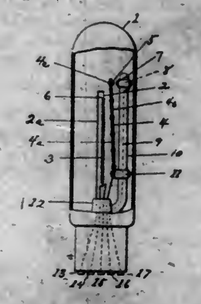
In a display form including in combination a foot having a hollow portion and an opening in the sole of the foot communicating wth the hollow portion, and a base having means thereon for supporting the form and locking said form in position so as to prevent removal by any relative lateral or longitudinal movement between the base and the form, said locking means including a post and a locking member thereon adapted to enter the opening in the sole of the foot, said locking member having a length greater than the width of the opening in the foot and being so disposed relative to the opening in the sole as to require relative rotary movement from the normal display position of the form between the display form and the base in order to pass the locking member through the opening in the sole of the foot, whereby when the form is normally positioned on the base the locking member assumes a position within the foot crosswise of said opening in the sole of the foot.

1,755,795. ICE-CUBE TRAY. COOPER B. RHODES, Washington, D. C. Filed June 15, 1928. Serial No. 285,590. 8 Claims. (Cl. 62—111.)



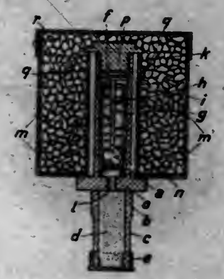
1. A metallic ice cube tray having side walls and a bottom to form ice cubes, said bottom having a normally convex flexible portion adjacent the cube, which may be flexed so as to eject the cubes.

1,755,796. ELECTRON-TUBE APPARATUS. SAMUEL RUBEN, New York, N. Y., assignor to Ruben Patents Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 10, 1924. Serial No. 754,957. 5 Claims. (Cl. 250—27.5.)



1. A vacuum discharge device having in a space therein, evacuated to a pressure at which substantially no positive ionization can occur, an electron emission element, an electron stream control element and an anode element composed of a thermosensitive bimetallic expansion element, and a plurality of contact elements, one of which is adapted to open and close an electric circuit, by its movement, actuated by variations of the electronic bombardment of said anode element in response to variations of potential applied to said control element.

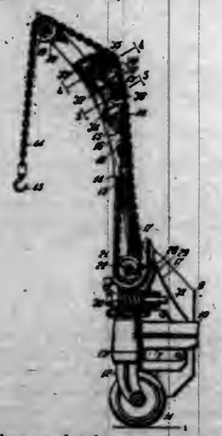
1,755,797. FUSE FOR SUBMARINE BOMBS. PAUL SCHWENKE, Zerbst, Anhalt, Germany. Filed Jan. 18, 1929, Serial No. 333,419, and in Great Britain Jan. 23, 1928. 1 Claim. (Cl. 102—3.)



A hydrostatic fuse for a bomb comprising a heat conducting sleeve element the lower end of which containing an ignitable substance, such as gunpowder, is secured in the end of the bomb and communicates with the upper end projecting from the bomb, a glass tube containing a substance capable of ignition when brought into contact with

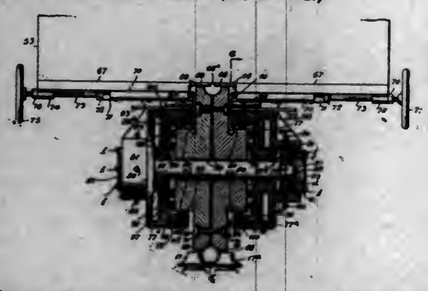
an acid supported in said projecting end of the sleeve, a second glass tube, arranged within the upper part of the sleeve element, containing the acid, a receptacle surrounding the upper end of the sleeve element having apertures and containing a substance capable of generating heat when brought in contact with water flowing in through said apertures when the bomb becomes submerged this heat transmitted to the acid tube causing it to expand and to finally break so as to allow its contents to admix with the material contained in the first mentioned glass tube whereupon the flame produced fires the explosive in the bomb through the medium of the gunpowder in the low end of the sleeve element.

1,755,798. PORTABLE CRANE. BERGER STOCKFLETH, Berrien Springs, and FREDERICK W. BURGER, Niles, Mich., assignors to Clark Tructractor Company, Battle Creek, Mich., a Corporation of Michigan. Original application filed Feb. 9, 1925, Serial No. 7,946. Divided and this application filed Apr. 16, 1928. Serial No. 270,232. 20 Claims. (Cl. 254—178.)



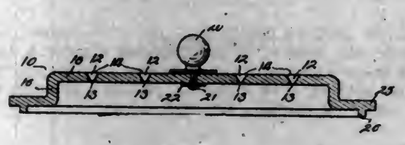
1. A hoisting mechanism comprising a hoisting chain, an upper sheave over which the load carrying portion of said chain operates, a driving sheave around which a bight of said chain runs and by which said chain is driven, and means actuated by the travel of the chain to maintain both sides of said bight taut relatively to said driving sheave.

1,755,799. WELDING MACHINE. MAXWELL H. SUSSMAN, Kew Gardens, N. Y. Filed June 29, 1929. Serial No. 374,705. 19 Claims. (Cl. 219—4.)



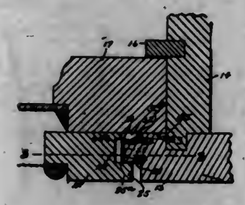
In an electrical welding machine, the combination of contact housings connected with a source of electricity, an electrode rotatably mounted in said housings and provided with end and circumferential contact faces, and contact devices carried by said housings and engaging respectively the end and circumferential contact faces of said electrode to transfer electrical current thereto.

1,755,800. SELF-BASTING COVER. OLAF TOLLAGSEN, Chicago, Ill., assignor to Aluminum Goods Manufacturing Company, Manitowoc, Wis., a Corporation of New Jersey. Original application filed Nov. 20, 1926, Serial No. 149,549. Divided and this application filed Sept. 29, 1928. Serial No. 309,151. 3 Claims. (Cl. 53—6.)



1. An article of manufacture comprising a relatively thick walled cover for cooking utensils, means comprising a plurality of apertures formed in the cover wall and opening through said wall for permitting the escape of steam outwardly through the cover and the dripping back of condensation inwardly through the cover, said apertures being enlarged outwardly within the thickness of the cover wall and having enlarged ends at the outer side of the thickness of the cover wall and reduced ends at the inner side of the thickness of said wall, the thickness of the cover wall being sufficient and the outward enlargement of said apertures such as to form condensation collecting pockets wholly within the thickness of the wall of the cover and solely by the outward enlargement of said apertures within the thickness of said wall and without bending the wall of the cover in addition to providing steam escape and condensation drip back apertures in order to form condensation collecting pockets adjacent said apertures.

1,755,801. WINDOW AND SCREEN THEREFOR. AINSLEY J. VINCENT, Lawrence, Mass. Filed July 30, 1928. Serial No. 296,272. 1 Claim. (Cl. 156—14.)



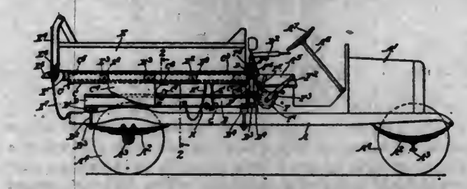
A window casing including a vertical outside member having a sash guiding face 35 arranged to bear on a complemental face on a sash, and a longitudinal screen guiding rib integral with said member and projecting from the sash-guiding portion thereof, said rib having a wide outer longitudinal face 21 in a plane parallel with the outer side of said casing member and offset inwardly therefrom, the face 21 being arranged to have an extended insect-excluding bearing on a complemental face of a screen frame, a narrow inner face 20 parallel with the outer face, offset from the sash guiding face 35 and arranged to guide a lip on a screen frame spring, a spring-guiding face 22 between the inner and outer faces, and a reinforcing fillet portion 33 integral with the casing member and rib and having a beveled face 33ª extending between the lip guiding face 20 and the sash guiding face 35, the arrangement of said faces being such that the portion of the integral rib formed in part by the fillet portion is wider than the spring guiding face 28, the fillet portion imparting a massive form to the inner portion of the rib, whereby liability of breakage of the rib from the casing member is reduced, the fillet portion compensating for the reduction of the cross section of the rib caused by the formation of the wider outer face 21 thereon.

1,755,802. PAD SUPPORT FOR PRESSING MACHINES. BENJAMIN WEINBERGER, Mount Carmel, Ill. Filed May 10, 1929. Serial No. 361,876. 5 Claims. (Cl. 68—9.)



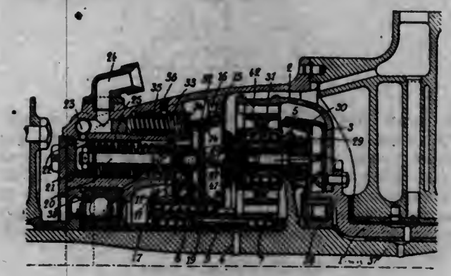
1. A device of the character described comprising densely compacted heat resisting nonmetallic indurated fibrous material of approximately uniform thickness throughout and having numerous holes therethrough, in combination with a wrapper of screening material enclosing said body.

1,755,803. DUMPING BODY. WILLIAM C. ANTHONY, Streator, Ill., assignor to Anthony Company, Streator, Ill., a Corporation of Illinois. Filed Jan. 18, 1926. Serial No. 81,986. 7 Claims. (Cl. 298—12.)



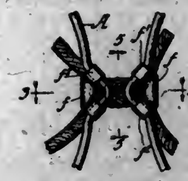
1. In combination with a support, a carrying part and a member carrying said part, and resting upon said support and adapted of itself to tip the carrying part, a receptacle resting on said carrying part and adapted to move with it and to move laterally with relation to it and to tip with relation to it.

1,755,804. SPEED CHANGING AND REDUCING GEAR FOR AEROPLANE ENGINES. MARIUS JEAN-BAPTISTE BARBAROU, Paris, France. Filed June 4, 1929, Serial No. 368,402, and in France Mar. 12, 1929. 12 Claims. (Cl. 74—34.)



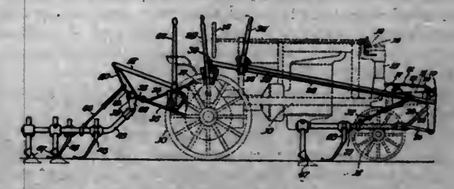
1. In a speed reducing gear, particularly adapted for aeroplane engines, the combination of a driving shaft, a rotary annulus rotatable with said shaft, a driven shaft, a pinion mounted loose on said driven shaft, hollow spindles supported from said driven shaft, planetary pinions loose on said spindles, respectively, and meshing with said loose pinion, a casing, a stationary annulus rigid with said casing, an axially movable member having teeth adapted for engagement either with said rotary annulus or with said stationary annulus according to its axial position, means for slidably connecting said member with said pinion, a first clutch member associated with said driving shaft, a second clutch member adapted to cooperate with said first clutch member, and thrust transmitting means extending through said hollow spindles, adapted to be engaged by said axially movable member before the latter engages said rotary annulus to move said second clutch member toward said first clutch member.

1,755,805. MATTRESS AND LIKE STRUCTURE. MATTHEW F. BAYER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed June 18, 1924. Serial No. 719,726. 1 Claim. (Cl. 5—267.)



1. A mattress or like structure comprising a plurality of rows of coil springs arranged in juxaposition with their axes parallel, relatively short stout connections of flexible fibrous material extending between the end coils of adjacent springs and metallic fasteners rigidly united to said springs and rigidly securing said connections to the respective springs, the intermediate portions of said connections serving as hinges, as ties, and also as compression members for preventing metal to metal contact between adjacent metal parts associated with said compression members.

1,755,806. TRACTOR CULTIVATOR. BERT R. BENJAMIN, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 30, 1926. Serial No. 119,528. 7 Claims. (Cl. 97—47.)



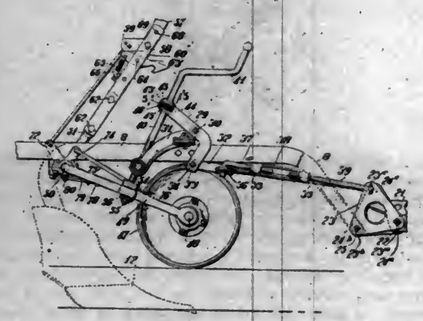
1. In a tillage implement, the combination with a motor propelled vehicle, of front and rear tool supports mounted thereon, a set of cultivating tools disposed in straddle-row relation and having two of the units composing the set connected to the front support with the units positioned to travel immediately adjacent opposite sides of a plant row space, and means for collectively shifting the units carried by said support transversely of the vehicle during travel thereof, and complemental units of the set connected to the rear support.

1,755,807. LOCK NUT. GEORGE I. BOLES, Wayne, Pa. Filed Apr. 6, 1929. Serial No. 352,982. 3 Claims. (Cl. 151—28.)



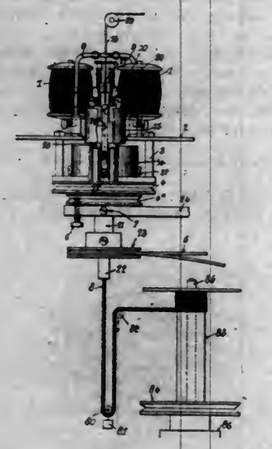
1. In a lock nut construction the combination of a bolt provided with a groove, a nut arranged to thread on said bolt and having a counterbore and a radial hole opening into said bore, and a curved washer slidable over the threads of said bolt having an inwardly disposed tongue to seat in said groove and an outwardly disposed tongue to enter said radial hole when said washer is pressed flat in said counterbore.

1,755,808. TRACTOR PLOW. THEOPHILUS BROWN and CARL G. STRANDLUND, Moline, Ill., assignors to Deere & Company, Moline, Ill., a Corporation of Illinois. Original application filed Jan. 28, 1924, Serial No. 689,029. Divided and this application filed Jan. 13, 1927. Serial No. 160,805. 23 Claims. (Cl. 97—73.)



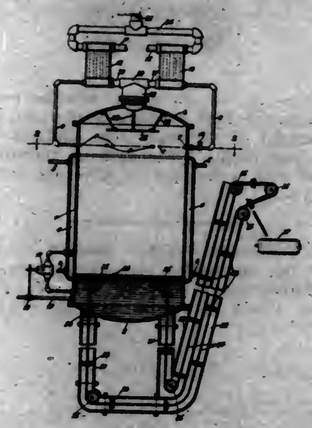
1. A plow comprising a plow beam, a ground wheel, a vertically swinging member connecting the beam with said wheel, whereby the beam may be swung about the axis of said wheel to raise or lower the plow, a brake movably mounted on said member and adapted to cooperate with said heel to effect the swinging of said member to lift the plow by the draft power, and a manually-operable lever swinging substantially as a unit with said member for applying said brake.

1,755,809. MANUFACTURE OF TUBULAR CORDS OR BRAIDS. RENÉ LÉON GEORGES BURAUX, Le Pre-St.-Gervais, and PAUL JEAN MASSU, Paris, France, assignors of one-third to Maurice Ambroise Ernest Buraux, Le Pre-St.-Gervais, France. Filed Feb. 25, 1928, Serial No. 256,906, and in France Mar. 15, 1927. 3 Claims. (Cl. 66—9.)



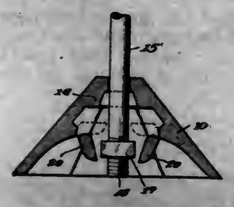
1. In a machine for knitting tubular cord, a bobbin carrier, a needle actuating member, means for holding said carrier and member stationary, reciprocating needles, a needle bed, means for rotating said needle bed together with said needles, a core feeding device and means for holding against rotation the cord delivered by the machine.

1,755,810. METHOD OF REFRIGERATION. SAMUEL C. CARNEY, Tulsa, Okla., assignor to Shell Petroleum Corporation, a Corporation of Virginia. Filed Oct. 1, 1925. Serial No. 59,796. 7 Claims. (Cl. 62—172.)



1. The process of forming ice bodies from water which consists in bringing into direct contact with the water a quantity of light hydrocarbons insoluble in the water, said hydrocarbons being of a character which will not impart any odor, taste or deleterious effect to the ice bodies, and evaporating the hydrocarbons under a partial vacuum.

1,755,811. EARTH ANCHOR. ALBERT B. CHANCE, Centralia, Mo. Filed Mar. 14, 1928. Serial No. 261,498. 5 Claims. (Cl. 189—90.)



5. In an earth anchor, the combination of a guy member with an anchor member carried by one end of said guy member, means carried by said guy member for preventing movement of said anchor member off said end, and releasable means carried by one of said members, adapted to be actuated by impact on said guy member to release said guy member from said anchor member to bury said guy member in the earth.

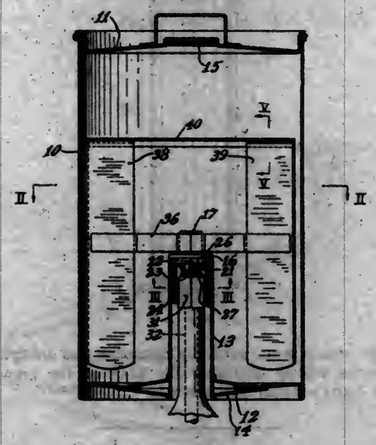
1,755,812. INHIBITOR MATERIAL. LUDWIG J. CHRISTMANN, Jersey City, N. J., assignor to American Cyanamid Company, New York, N. Y., a Corporation of Maine. Filed Sept. 18, 1929. Serial No. 393,590. 8 Claims. (Cl. 148—8.)

1. A method of cleaning or pickling metals which comprises subjecting the same to a pickling or cleaning bath containing a small amount of tetramethyl diamino diphenyl disulfide.

1,755,812. CHURN. CLIFFORD H. COLE, Birmingham, Ala., assignor, by mesne assignments, to Nineteen Hundred Corporation, Binghamton, N. Y., a Corporation of New York. Filed Jan. 21, 1929. Serial No. 334,085. 11 Claims. (Cl. 259—66.)

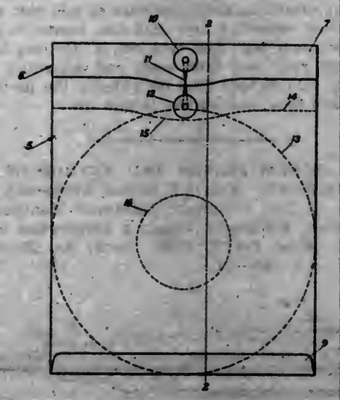
1. A churn comprising, in combination, a cream container having a central sleeve rigid therewith adapted to

enclose an upright driving shaft, an independently removable dasher element, and a coupling device comprising a cover closing the top of said sleeve and secured thereto, an angular lug formed on the underside of said cover, a coupling element having an angular opening fitting over



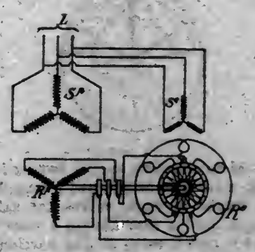
said angular lug, means for detachably securing said coupling element to said lug, said coupling element being constructed to form a driving connection with said driving shaft to oscillate the cream container, and an angular projection on the top of said cover constructed to form a driving connection with said dasher element.

1,755,814. ENVELOPE. HENRY C. COX, Kew Gardens, N. Y., assignor to Columbia Phonograph Company, Inc., Bridgeport, Conn., a Corporation of New York. Filed Sept. 25, 1928. Serial No. 308,155. 6 Claims. (Cl. 206—1.)



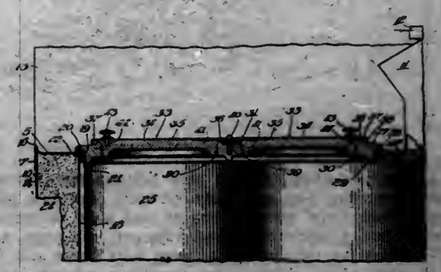
1. An envelope for disc phonograph records, the same being of a width approximately equal to the diameter of a record and being of a height greater than the diameter of a record, said envelope being open at one side, a flap for closing said side, and said envelope being perforated along a line to permit separation of the flap portion from the body portion and along a line to expose a portion of the record.

1,755,815. ALTERNATING-CURRENT ELECTRIC MACHINE. HENRI DE PISTOYE, Paris, France. Filed Mar. 30, 1926, Serial No. 98,452, and in Belgium Apr. 24, 1925. 4 Claims. (Cl. 172—274.)



1. In an alternating current dynamo electric machine, the combination of a main electric machine having a stator and a rotor winding, and a commutator frequency convertor adapted to function as a phase advancing device and having a different number of poles than the main machine, said main machine and said frequency convertor being arranged so as to form a single magnetic circuit, said frequency convertor comprising a stator winding coupled to the stator winding of the main machine, a single rotor winding, a commutator, conductors leading from said single rotor winding to the commutator, a plurality of brushes mounted in frictional relation to said commutator, and conductors leading from said brushes to the rotor winding of the main machine, the rotor and stator windings of the main machine and the frequency convertor being connected so as to prevent the disturbing effects due to the difference in the number of poles of the main machine and the frequency convertor.

1,755,816. COOLER CABINET FOR SODA FOUNTAINS. TULLY DE STEFANI, Chicago, Ill., assignor, by mesne assignments, to The Liquid Carbonic Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 8, 1925. Serial No. 20,375. 6 Claims. (Cl. 217—17.)



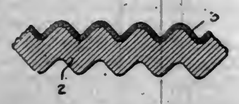
1. A cooler cabinet for soda fountains having a flat metallic capping provided with an opening therein and having an upwardly extending bead around said opening, a cover having an annular part of molded heat insulating material projecting over and contacting with said annular bead, said cover having an aperture therethrough, a bead extending upwardly around said aperture, and a lid for closing said aperture having a part extending outwardly and contacting with said bead.

1,755,817. INTERNAL-COMBUSTION ENGINE. RAYMOND H. DIBLEY, Bathurst, New South Wales, Australia. Filed Apr. 30, 1927. Serial No. 187,941. 8 Claims. (Cl. 123—75.)



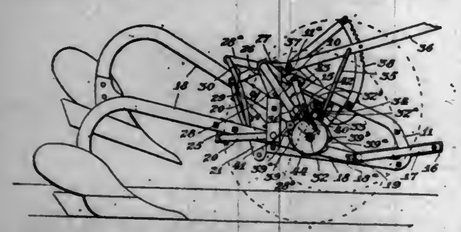
2. An internal combustion engine having intake and exhaust passages, a carburetor adapted to supply combustible gases to said intake passage, valves for said intake and exhaust passages, and a cam having a base circle portion of less than 180° and a valve lifting portion greater than 180° for opening said intake valve.

1,755,818. PAPER PRODUCT. PAUL B. GANZINOTTI, Union City, N. J. Filed Feb. 13, 1929. Serial No. 339,563. 2 Claims. (Cl. 41—24.)



1. As a new article of manufacture, a paper product for decorative uses comprising a translucent paper of highly finished surface thrown by embossing into a multiplicity of sloping areas, and a translucent coating covering one or both surfaces of said paper, said coating containing the crystalloid bodies obtained from fish-scales.

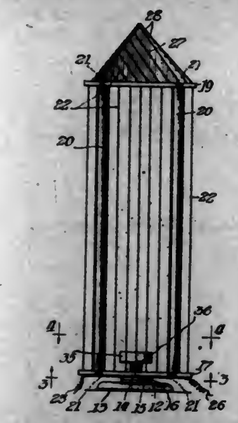
1,755,819. TWO-WAY TRACTOR PLOW. WILLIAM S. GRAHAM, Canton, Ill., assignor, by mesne assignments, to Fred Gerlach and Arnold B. Keller, trustees, Chicago, Ill. Filed Apr. 17, 1922. Serial No. 553,521. 28 Claims. (Cl. 97—73.)



1. A plow having adjacent plow bottoms for alternate use, comprising two separately vertically shiftable plow beams, each beam carrying one of said plow bottoms, a plow frame, a supporting wheel adjacent each beam, and plow adjusting connections between each beam and the supporting wheel adjacent the other beam whereby when the frame is moved relative to one supporting wheel the beam adjacent the other wheel is caused to have movement relative to the frame.

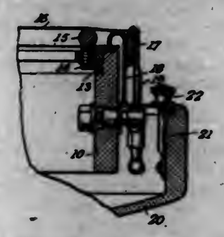
1,755,820. LOOP AERIAL. ALBERT G. HARMS, Chicago, Ill. Filed Dec. 24, 1925. Serial No. 77,568. 4 Claims. (Cl. 250—33.)

1. A loop aerial comprising a frame including top and bottom members spaced apart a distance greater than any dimension of the members, means connecting said members to each other, a bridge piece on one of said members, and wires coiled around the frame and bridge



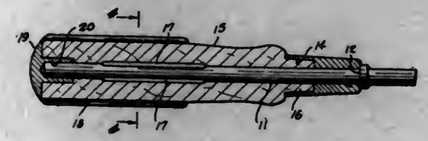
piece in engagement with the members and bridge piece, said wires wholly enclosing the area of the frame and having leads extending therefrom.

1,755,821. BANJO. FRANK J. HELLER, Woodhaven, N. Y. Filed Nov. 3, 1928. Serial No. 316,895. 5 Claims. (Cl. 84—270.)



1. A banjo, comprising, in combination a head rim, a flanged ring extending about one edge of said rim, a membraneous head extending over said rim, means to stretch said membraneous head over said rim, a tone ring between said flanged ring and said head, and adjusting means mounted in said flanged ring for varying the position of said head and tone ring relative to said rim.

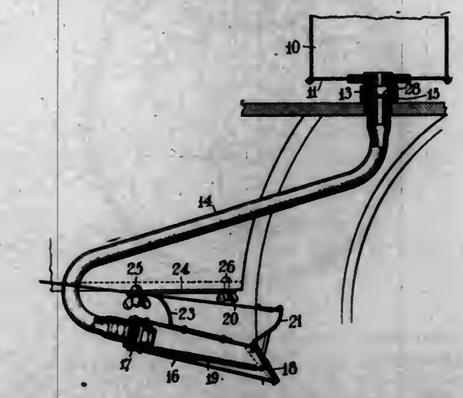
1,755,822. SCREW DRIVER AND METHOD OF MAKING THE SAME. WILLIS F. HOBBS, Bridgeport, Conn., assignor to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 3, 1928. Serial No. 251,480. 8 Claims. (Cl. 145—61.)



1. A screw driver or similar tool comprising a tool and shank forged in one piece with a shoulder on the shank spaced from the end thereof, a metal ferrule having a bore closely fitting the shank and engaging said shoulder, said ferrule having a socket in its opposite end, a handle embracing the shank and seated tightly at one end in the ferrule socket, longitudinal ribs on the shank embedded in the handle to prevent turning of the shank in the handle,

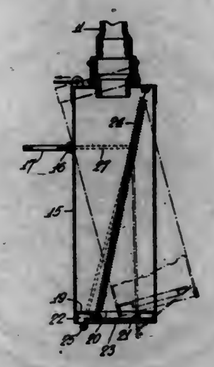
and a metal head covering the other end of the handle and having a socket closed at its inner end permanently attached to the end of the shank by being shrunk onto the end of the shank so that the head is substantially in one piece therewith.

1,755,823. SANDING DEVICE FOR VEHICLES. LOREN L. HOPKINS, West New York, N. J. Filed May 17, 1928. Serial No. 278,381. 13 Claims. (Cl. 291—1.)



1. A sanding device for vehicles, including a nozzle for delivering sand in advance of the vehicle wheel, a conduit connected to said nozzle, and a collapsible sand container formed of material impervious to moisture and connected to said conduit.

1,755,824. SANDING DEVICE FOR VEHICLES. LOREN L. HOPKINS, West New York, N. J. Filed Mar. 18, 1929. Serial No. 347,798. 8 Claims. (Cl. 291—47.)



1. A sanding device for vehicles including a nozzle having a closure, a spring within the nozzle for normally holding the closure in closed position, means for swinging the nozzle, and means for automatically opening the closure against the action of said spring during said swinging movement.

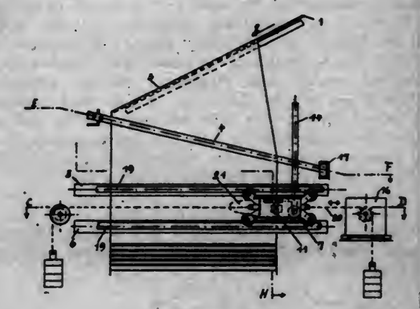
1,755,825. COTTON PICKER. EDWARD A. JOHNSTON, DAVID B. BAKER, and CLARENCE R. HAGEN, Chicago, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 15, 1926. Serial No. 148,555. 9 Claims. (Cl. 56—47.)

1. A picker bar assembly comprising, in combination, a substantially tubular unitary gear casing, a driving shaft extending through the casing and journaled therein at the ends of the casing, picker stems projecting radially of the casing and journaled therein, gearing connecting



each picker stem with the driving shaft, a gear on the shaft outside of the casing for rotating the driving shaft, and a cam engaging arm integral with the casing and extending to a position eccentric to and above said gear.

1,755,826. APPLIANCE FOR AUTOMATICALLY REGULATING THE ENTRANCE OF FABRICS OR WEBS INTO LAPPING MACHINES. EUGEN KLEIN, Dresden, Germany. Filed Dec. 20, 1927, Serial No. 241,350, and in Germany Dec. 23, 1926. 9 Claims. (Cl. 270—86.)

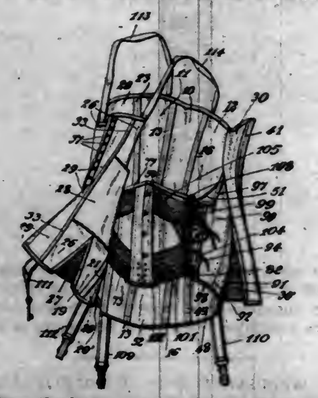


1. In apparatus for automatically regulating the feeding of fabric or web into lapping machines in order to ensure the correct positioning of the edges of adjacent layers with respect to each other comprising, a movable lapping appliance, a carriage, a feeling lever carried by said carriage in position to engage the fabric or web, and means controlled by the movement of said feeling lever for actuating said lapping appliance.

1,755,827. APPAREL GARMENT. WALDEMAR KOPS, New York, N. Y., assignor to Kops Bros. Inc., New York, N. Y., a Corporation of New York. Filed Oct. 2, 1928. Serial No. 309,721. 2 Claims. (Cl. 2—27.)

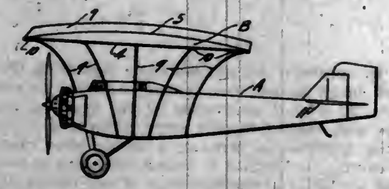
2. In an apparel garment, a body member adapted to surround the body of a wearer from a line above the bust to a line below the buttocks, the said body member including a back member, a longitudinally divided abdominal support and diaphragm control member comprising front sections of inelastic material connectible to one another

and elastic sections laterally thereof, the said sections being adapted to overlie the abdomen and the lower portion of the diaphragm of the wearer, uplift straps of elastic material extending upwardly from the lower front central portions of the abdominal support and diaphragm control member to the distant edges thereof, diaphragm control straps of elastic material extending downwardly from the upper front central portions of the said abdominal support and diaphragm control member to the distant edges thereof, side members of inelastic material connected at their forward edges to the distant edges of the said elastic sections of the said abdominal support and diaphragm control member and at their rear edges to the side edges of the back member of the body of the garment, the lower edges of the said side members extending down-



wardly from the lower end portions of the abdominal support and diaphragm control member to substantially the lower end of the side portions of the back member of the body member, anchor straps connected to the forward edges of the said side members, and lacing devices for adjustably connecting the said anchor straps to the said uplift straps and the said diaphragm control straps, whereby tension is adjustably exerted to support the abdomen and to maintain the upper front portion of the abdominal support and diaphragm control member in position to control the diaphragm and the said tension is transmitted through the said side members to the back member of the garment to cause the lower portion of the back member of the garment to conform to and support the back and retain the buttocks of the wearer.

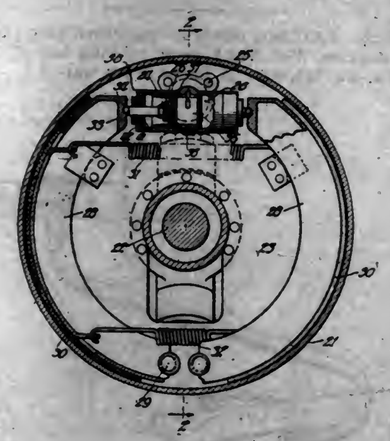
1,755,828. AEROPLANE. OTTO VON KORIES, Holtville, Calif. Filed Jan. 7, 1929. Serial No. 330,885. 3 Claims. (Cl. 244—12.)



3. In a wing structure for an aeroplane, a hollow, circular wing, the lower surface thereof being flat and the upper surface being cambered, and a keel mounted perpendicularly upon the outer side of the upper surface of the structure.

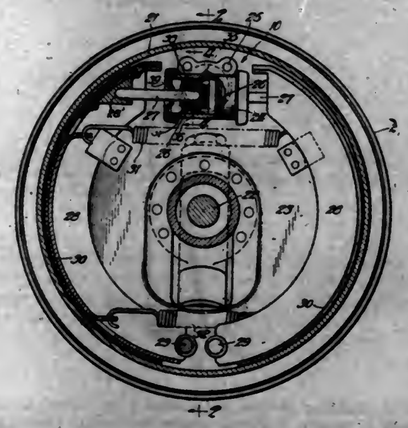
1,755,829. BRAKE. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a Corporation of California. Filed June 14, 1926. Serial No. 115,750. 8 Claims. (Cl. 188—152.)

4. In a hydraulic braking apparatus, a brake drum, a brake shoe, a spring for retracting the brake shoe, brake shoe actuating means, a rod connecting the actuating means with the brake shoe, a spider ring having radial inwardly extending tongues encompassing said rod and having its tongues in frictional engagement with the rod, said tongues extending forwardly of the ring to permit the



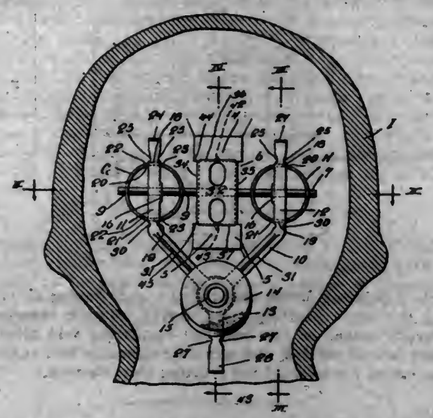
longitudinal movement of the rod in one direction but to resist movement of the rod in the opposite direction under the force of said spring, and a stationary stop member, one on each side of said ring spaced apart from one another, and spaced apart from the ring a distance equivalent to the normal movement of the brake shoe in operation.

1,755,830. BRAKE. MALCOLM LOUGHEAD, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a Corporation of California. Filed Nov. 12, 1926. Serial No. 147,858. 17 Claims. (Cl. 188—152.)



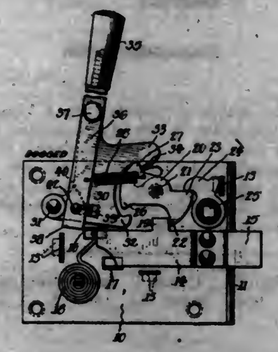
17. In a hydraulic braking system including a brake drum, a brake shoe and a brake shoe lining, the combination of a motor cylinder, a piston structure movable in said cylinder to apply the brake shoe lining against the drum, and a slack take-up mechanism comprising a friction device operating between said cylinder and said piston structure, said device being movable in either direction through the application of abnormal force, the piston structure having a limited amount of free movement with respect to the friction device, the degree of said free movement determining the distance which the brake shoe lining may be retracted.

1,755,831. EYE SET. SAMUEL MARCUS, Brooklyn, N. Y., assignor, by mesne assignments, to Markon Manufacturing Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 26, 1927. Serial No. 163,610. 11 Claims. (Cl. 46—40.)



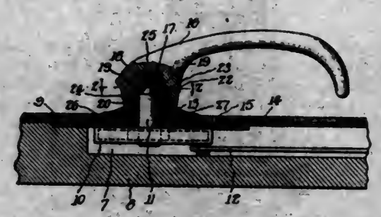
1. An eye set comprising a pair of eyes, means connecting said eyes together, attaching means for attaching said connecting means with a doll head, and said attaching means having vertically arranged pivot parts for engagement with the doll head to thereby support the eye set for adjustment upon a vertical axis.

1,755,832. DOOR LATCH. ROLLO MARPLE, Charlotte, Mich., assignor to Hancock Mfg. Co., Charlotte, Mich., a Corporation of Michigan. Filed Mar. 26, 1926. Serial No. 97,520. 11 Claims. (Cl. 292—164.)



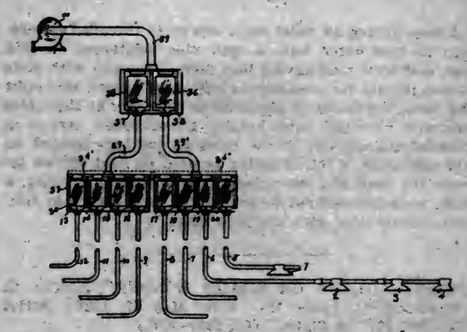
1. A door latch comprising, in combination, a spring-pressed latch bolt, a spring-actuated roll-back arranged to unlatch said bolt, means arranged for actuation by an outside operator to actuate the roll-back, a rocking member actuated from the inside and arranged to be moved in one direction from a normal position to actuate the roll-back and in the other direction from said normal position to dog the roll-back, a handle-arm pivoted intermediate its ends on said rocking member for limited movement, said arm and rocking member in one limiting position acting as a rigid structure when moved to unlatch the bolt, a stop in the path of said arm to prevent the rocking of the plate into dogging position, said stop and said arm being arranged to clear each other on moving the arm relative to the rocking member whereby to permit moving the rocking member into a position to dog the roll-back, and detent mechanism operative to hold the arm and rocking member normally in said rigid relation.

1,755,833. LATCH-OPERATING HANDLE FOR AUTOMOBILE DOORS. ROLLO MARPLE, Charlotte, Mich., assignor to Hancock Manufacturing Co., Jackson, Mich., a Corporation of Michigan. Filed Feb. 18, 1927. Serial No. 169,183. 8 Claims. (Cl. 292—348.)



1. A door latch operator comprising a stub shaft having at one end a head, a handle having a portion providing a recess adapted to receive said head, said head and recess being shaped to interengage to prevent relative rotational movement between them but permitting axial movement, a part rigid with the shaft and projecting radially therefrom beyond the periphery of the head, a nut rotatable on the shaft, said handle portion having a recess internally screw threaded to receive said nut, and said nut being operable to clamp said radial projection between it and the handle portion.

1,755,834. SMOKE DETECTOR. GEORGE M. MARR, Woodhaven, and ARTHUR PHELPS MARR, Forest Hills, N. Y. Filed July 13, 1928. Serial No. 292,415. 7 Claims. (Cl. 116—114.)

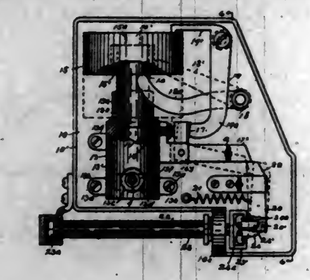


1. A smoke detector comprising a cabinet having a plurality of independent chambers in approximate alignment therein, a pipe leading to each of said chambers, a pipe leading from all of said chambers, a second single chamber into which said last mentioned pipe enters, and an exhausting means connected to said second chamber.

1,755,835. ACTUATOR FOR FIRE EXTINGUISHERS. HOWARD W. PARTLOW, Utica, N. Y. Filed Aug. 31, 1928. Serial No. 303,232. 11 Claims. (Cl. 169—27.)

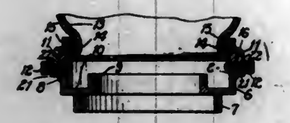
1. In an actuator for fire extinguishers, an air compressor including a hollow upright cylinder and a weighted piston movable therein, means to manually elevate the piston, a bolt movable through an opening in the wall of the cylinder to hold the piston elevated, a rockable member to slide and hold the bolt engaged with the piston, a member operable by the upward movement of the piston to cause the rockable member to thrust the bolt beneath the piston at the end of its upward stroke, said bolt having an end formed for camming engagement with the piston, whereby

upon release of the bolt by the rockable member the weight of the piston will move the bolt out of engagement there-



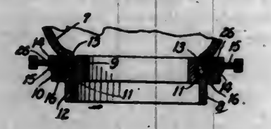
with, a thermostat, and means actuated by the thermostat adapted to trip said rockable means for enabling the piston to gravitate for compressing the air in the cylinder.

1,755,836. GLOBE OR SHADE HOLDER. NICOLA CESARE PETRILLO, St. Louis, Mo. Filed May 29, 1929. Serial No. 366,803. 1 Claim. (Cl. 240—135.)



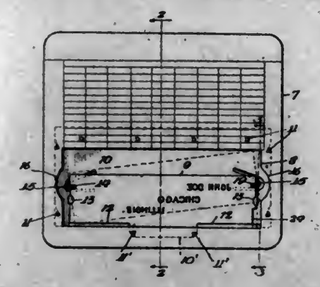
A base having an outer wall, screws in threaded engagement in said outer wall, a split ring positioned on said base, said split ring having lugs formed thereon with slots formed therein for engagement with said screws, said split ring being composed of segments having ears at their free ends with threaded holes passing therethrough, screws in threaded engagement in the holes in the lugs formed on said split ring, a coiled spring secured on said screws between the head and the adjacent ears of said split ring, a globe, a gasket secured to said globe, said gasket in frictional engagement with said split ring.

1,755,837. GLOBE OR SHADE HOLDER. NICOLA C. PETRILLO, St. Louis, Mo. Filed May 31, 1929. Serial No. 367,173. 1 Claim. (Cl. 240—135.)



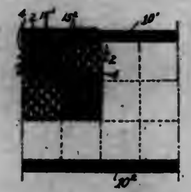
A split ring hingedly secured together at two of its free ends and having a locking device secured at its other two free ends, said locking device comprising a spring secured to said split ring and having its free end normally penetrating into a slot in said split ring, a circumferential cylindrical hole formed in the same end of the split ring in communication with the slot formed in said split ring, a clasp in threaded engagement in the other free end of said split ring, said clasp having a notch formed at its free end for passage into the cylindrical hole in the other free end of said split ring and for selective engagement with the free end of said spring.

1,755,838. PRINTING DEVICE. ELMER F. RICHTER, Park Ridge, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Delaware. Filed July 23, 1928. Serial No. 294,754. 6 Claims. (Cl. 101—369.)



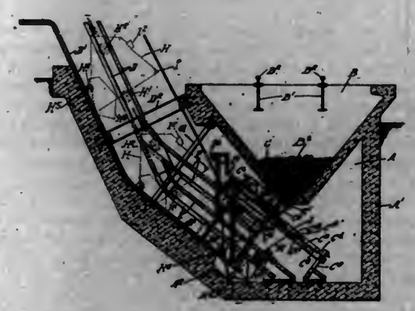
1. A printing device comprising a body having an opening therein, a printing plate having printing characters thereon, means on the body for supporting said printing plate in said opening, and retaining means on said supporting means for securing the printing plate thereon.

1,755,839. PROCESS FOR THE MANUFACTURE OF CHENILLE FRINGES OR OTHER SIMILAR ORNAMENTS AND PRODUCTS. PAUL RODIER, Paris, France, assignor to Rodier, Paris, France, a Limited Joint Stock Company of France. Filed Feb. 10, 1928, Serial No. 253,857, and in France Feb. 18, 1927. 3 Claims. (Cl. 139—385.)



1. As a new article of manufacture, a fringe, trimming or the like consisting of strands of chenille each strand comprising a core and a strand-like facing with the facing strands substantially adhering to the core at intervals and standing away therefrom between the adhering portions whereby the article as a whole presents, at a distance, the appearance of feathers.

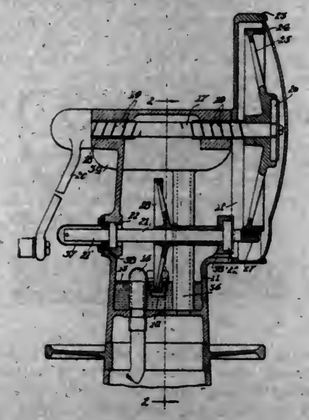
1,755,840. HOIST. CLYDE P. ROSS, Chicago, Ill. Filed Sept. 20, 1926. Serial No. 136,412. 1 Claim. (Cl. 214—125.)



In combination with a hopper, a reciprocating gate, a bucket moving into and out of register with the hopper, an

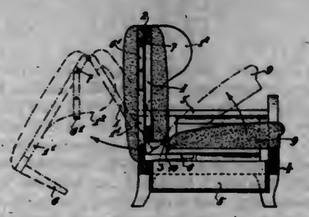
intermediate chute between the bucket and hopper, means interposed between the bucket and the gate for opening the latter after the bucket reaches the loading position, a latch pivoted on the gate, said latch having an up-turned end and being provided with anti-friction members, an abutment on the bucket adapted to be engaged by the latch whereby the bucket as it leaves the loading position, positively closes the gate, the latch comprising a link pivoted on the gate, tracks along which the bucket, the gate and the link travel, means including one of said tracks to hold the latch in engagement with the bucket while the bucket is in the loading position, and means comprising a track member angularly disposed with relation to the gate track for forcing the link out of engagement with the abutment when the gate has reached the closed position.

1,755,841. CREAM-SEPARATOR GEAR HOUSING. FELIX CONSTANTIN SANDSTROM, Milwaukee, Wis., assignor to International Harvester Company, a Corporation of New Jersey. Filed May 18, 1927. Serial No. 192,854. 5 Claims. (Cl. 184—13.)



2. In a cream separator, a frame, a closed housing thereon, a driving shaft journaled in bearings in said housing, a gear at one end of the shaft outside of said housing, a second closed housing surrounding said gear and communicating with the first housing, a driven shaft in the first housing, said driven shaft extending into the second housing, a pinion on the driven shaft in mesh with the gear on the driving shaft, an oil containing trough in the bottom of said first housing, and a gear on the driven shaft and arranged in the first housing to rotate through the oil in said trough to splash the oil therefrom and deliver it to the shaft bearings and into the second housing to lubricate the gears therein.

1,755,842. CHAIR CONVERTIBLE INTO A BEDSTEAD OR COUCH. ROBERT SCHÖBERL, Budapest, Hungary. Filed June 23, 1928, Serial No. 287,834, and in Hungary July 28, 1927. 1 Claim. (Cl. 5—37.)



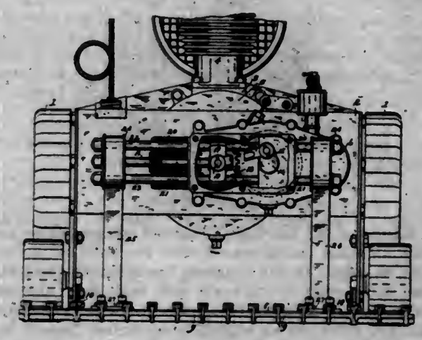
An arm-chair convertible into a bedstead or couch comprising, in combination, a seat frame, arm-rests at the sides of said seat frame with gaps between said arm-rests and said seat-frame, and a back-rest hinged behind the arm-rests, said back-rest being constituted by a pair of juxtaposed frames hingedly connected at their upper edges, the rearward one of said pair of frames having feet engageable with said gaps.

1,755,843. METHOD OF CHANNELING SOLES. WILLIS S. SHAFT, Faribault, Minn., assignor to Shaft-Pierce Shoe Company, Faribault, Minn. Filed Jan. 25, 1927. Serial No. 163,492. 5 Claims. (Cl. 12—146.)



1. The process of forming a combination inner and middle sole and channeling the same comprising the supporting of the sole stock with a portion of its edge above the body thereof, holding said portion of the edge in said position against movement, cutting the margin of the sole and channeling the same, and then releasing the sole and advancing the same to a new position.

1,755,844. LAWN-MOWER DRIVE. JOHN C. SLONNEGER, Milwaukee, Wis., assignor to Milwaukee Power Lawn Mower Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 21, 1927. Serial No. 234,701. 5 Claims. (Cl. 56—25.)

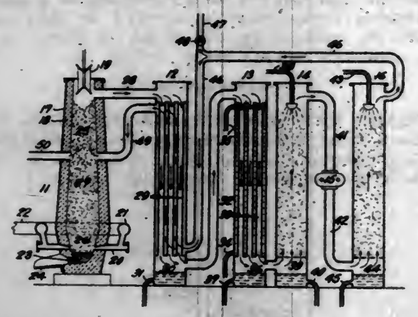


1. A power mower provided with a sickle guard and sickle bar, power means providing reciprocating motion and a spring strap connection between the power means and the sickle bar, said spring strap providing directional and pressure means for moving the sickle bar with reference to the sickle guard.

1,755,845. PROCESS OF AND APPARATUS FOR SMELTING ORES AND RECOVERING BY-PRODUCTS THEREFROM. FREDERICK T. SNYDER, New Canaan, Conn. Filed June 8, 1925. Serial No. 35,803. 18 Claims. (Cl. 75—17.)

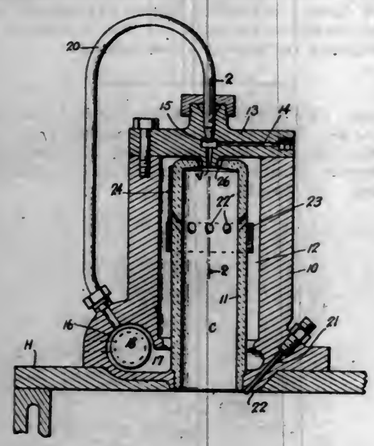
1. In a process of smelting ore with fuel containing a substantial proportion of volatile constituents, the step of passing in contact with the mixed ore and fuel a current of reducing gas sufficient in amount to lower the par-

tial pressures of volatile constituents of the fuel to such a degree that they will evaporate into the gas at tempera-



tures below the normal fusing temperature of the fuel and will remain in vapor state in presence of cold fuel and ore.

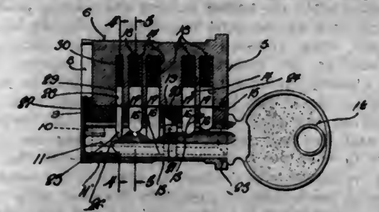
1,755,846. GAS FEEDER. NOEL A. STEED, Portland, Ind. Filed July 19, 1926. Serial No. 123,575. 1 Claim. (Cl. 158—28.)



A burner of the character described comprising an outer casing, an inner casing spaced from the walls of the outer casing to define an air chamber therebetween, said inner casing being open at its lower end, said inner and outer casings having aligned fuel inlet ports at their upper ends, said outer casing adjacent the bottom thereof being formed with an annular air inlet passage surrounding the inner casing, and formed to provide a valve chamber forming part of said passage, a valve operating in said chamber and controlling the admission of air into the annular passage, said annular passage communicating with the space between the inner and outer casings, and a heating element surrounding and supported by said inner casing, and said inner casing having an annular series of inclined ports arranged directly above the heating element.

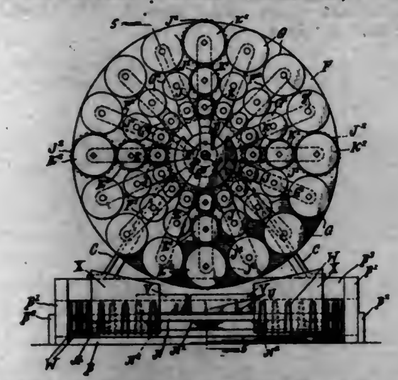
1,755,847. LOCK. ARTHUR C. STEVENS, Milwaukee, Wis., assignor of one-third to Phillip W. Gross and one-third to Ira Milton Jones, Milwaukee, Wis. Filed Mar. 25, 1925. Serial No. 18,263. 12 Claims. (Cl. 70—47.)

1. A lock of class described, comprising a shell, a slotted plug rotatable therein and provided with a plurality of tumbler sockets, tumblers movable in the sockets, drivers mounted in the shell and adapted to pass into the tumbler sockets when the plug is in a neutral position, said drivers being removed from the plug by the insertion of a key in the slot thereof, and one of said tumblers being of a



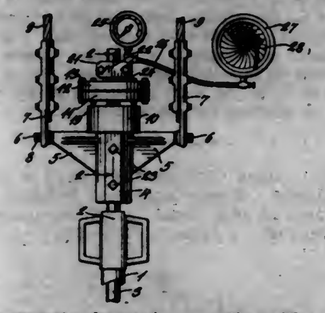
smaller diameter than the others and having its end portion pointed for engagement with the extreme end portion of a key.

1,755,848. ROTARY ADVERTISING APPARATUS. EUGENE C. TAYLOR, Patterson, La. Filed Apr. 14, 1928. Serial No. 269,945. 6 Claims. (Cl. 40—34.)



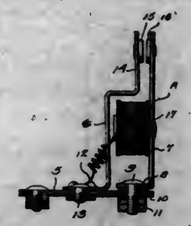
1. Apparatus for advertising, comprising a main rotary shaft, a vertical disk rotated thereby, a horizontal disk, means operated by said shaft for rotating said horizontal disk, means for displaying advertising matter in movable relation to said vertical disk, and means for displaying advertising matter carried by said horizontal disk.

1,755,849. DYNAMOMETER. CLYDE V. TEMPLE, McCamey, Tex. Filed Nov. 8, 1928. Serial No. 318,024. 4 Claims. (Cl. 265—47.)



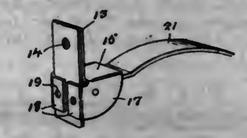
1. A dynamometer for use in connection with well drilling machines comprising a body member having an annular chamber, a flexible diaphragm separating said chamber into two annular compartments, a liquid in one of said compartments, a pressure gauge in communication with the compartment containing the liquid, whereby the pressure of the liquid may be determined, an annular ring in the other compartment, said ring having the surface adjacent the diaphragm transversely convex and means for moving the ring toward the diaphragm so as to bend the latter whereby the volume of the chamber containing the liquid will be decreased and the liquid placed under compression.

1,755,850. STARTER SWITCH. IRBY TINDAL, Greenville, Ala. Filed May 14, 1926. Serial No. 109,186. 1 Claim. (Cl. 200—87.)



A starter switch comprising a base plate, a pair of arms insulated from each other and carried at their inner ends by said base plate, at least one of said arms being resilient, one arm being straight, an electromagnet carried by said last named arm, the other arm acting as an armature to be attracted by said electromagnet upon energization thereof, said armature arm extending from the base parallel to the other arm to a point slightly beyond the magnet and being bent at a right angle providing an off-set, then extending again parallel to the first arm whereby the free ends of said arms are arranged adjacent and parallel to each other, and electrical contacts carried by the adjacent faces of the free ends of said arms.

1,755,851. BUCKET SUPPORT. GLEN K. VAN EPPS, Grand Mound, Iowa, assignor of one-half to Harry Meints, Grand Mound, Iowa. Filed July 16, 1928. Serial No. 293,021. 2 Claims. (Cl. 31—54.)



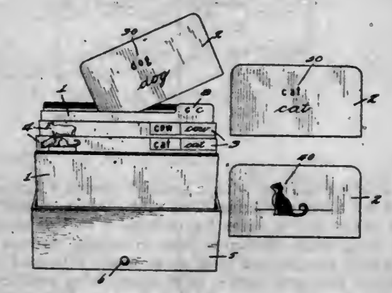
2. A new and improved bracket formed from a single blank of material of substantially T-shape formation, the cross head of the blank being bent upon itself to provide an inverted substantially U-shaped bracket portion, an arm pivoted between the parallel portions of said bracket and adapted to be extended horizontally for use, the stem of said blank being bent upon itself to provide an apertured bail receiving ear rising from the bracket, and right angularly disposed extensions projecting from the parallel portions of the bracket and embracing the ear, said ear and right angular extensions having aligned openings for the purpose specified.

1,755,852. ARTIFICIAL-LIMB JOINT. JAMES WAGNER, Peninsula, Ohio. Filed June 7, 1928. Serial No. 283,548. 2 Claims. (Cl. 287—101.)



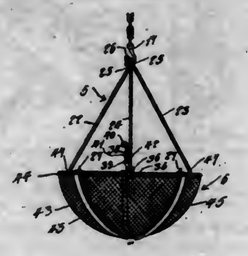
1. A pivotal joint for artificial limbs of the class described, comprising, in combination, a pair of complemental plates formed with registering eyes, one of said plates having a truncated conical portion surrounding its eye while the other plate has a recess formed with a truncated conical side receiving the first mentioned conical portion on the other plate, a cylindrical sleeve extending through the eyes, a bolt engaging the sleeve and having a head formed with notches, and means for locking the headed bolt in an adjusted position consisting of a screw cooperating with one of the notches in the head and either one of a plurality of notches spaced apart on one of the plates a lesser distance than the notches that are spaced around the head whereby a nicety of adjustment is provided.

1,755,853. DICTIONARY AND EDUCATIONAL GAME. ETHEL B. WARING, Ithaca, N. Y. Filed Dec. 14, 1927. Serial No. 239,870. 10 Claims. (Cl. 35—9.)



1. A loose leaf dictionary file comprising a set of cards bearing literary symbols and definitions other than literary in combination with a second set of cards, each of the second set bearing on its face the same literary symbol as one of the cards of the first named set and on its back a definition other than literary borne by said card of the first named set.

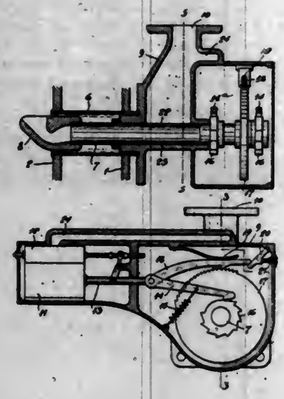
1,755,854. GRAPPLE AND BASKET FOR WAGON-LOADING APPARATUS. EMIL W. WEED, Raymond, Alberta, Canada. Original application filed Nov. 18, 1926, Serial No. 149,235. Divided and this application filed Mar. 15, 1928. Serial No. 261,856. 7 Claims. (Cl. 294—67.)



1. A grapple comprising a plurality of rods, hooks carried by certain of the rods, a hook pivoted to the remaining rod, a semi-spherical container carried by said rods and secured to said hooks, and means releasably securing the pivoted hook in retaining position.

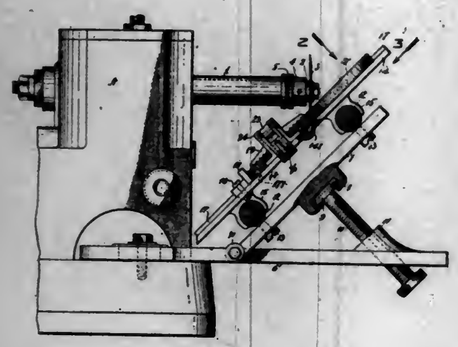
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1,755,855. STEAM CLEANSING DEVICE FOR LOCOMOTIVE AND SIMILAR BOILERS. CARL AXEL ARVID WASTERBERG, Stockholm, Sweden, assignor to Aktiebolaget Superior, Stockholm, Sweden. Filed June 19, 1925, Serial No. 38,330, and in Sweden July 22, 1924. 5 Claims. (Cl. 122—391.)



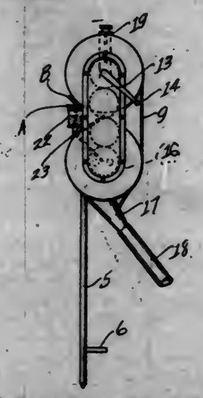
1. The combination with a boiler including a furnace, a set of fire tubes extending from said furnace through the boiler barrel and a water leg forming a wall of said furnace, of a steam discharge pipe extending through said leg to said furnace and forming an angle with said boiler tubes and having a nozzle, said nozzle being permanently located in the furnace, and being flare to effect a fan-like spreading of cleaning steam, and a steam engine, means connecting said engine and nozzle for effecting an intermittent rotation of said nozzle for directing the steam into said boiler tubes, the steam supply to the said nozzle and the steam supply to the said engine being mutually connected, so that the engine will be started simultaneously with the admission of cleaning steam to the nozzle.

1,755,856. HEEL CUTTER. HARRY E. WILLS, North Brookfield, Mass. Filed May 29, 1925. Serial No. 33,790. 5 Claims. (Cl. 164—61.)



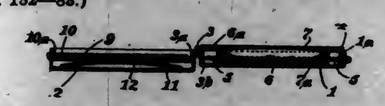
1. In a machine of the kind described, a cutter, a work plate, means for clamping the work to said work plate, means for supporting said work plate whereby it may be moved laterally, and the work borne by it moved onto said cutter, and means for supporting said work plate at an angle to said cutter whereby the work will be separated by said cutter into two parts having similar beveled edges.

1,755,857. EXTERMINATOR. WARREN ABBY, Marina, Calif. Filed Mar. 25, 1929. Serial No. 349,850. 1 Claim. (Cl. 43—124.)



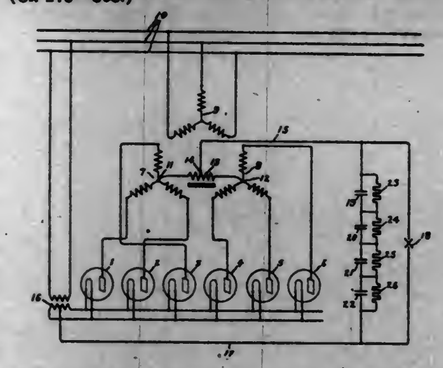
In a device of the character described a tank, a blower positioned adjacent said tank, a measuring cup positioned adjacent said tank and said blower, a pipe extending from said measuring cup to said tank, a valve positioned within said pipe, a pipe extending from said measuring cup to said blower, a valve positioned within said last mentioned pipe, means for rotating said blower for the purpose of forcing the products of said blower and said tank to a remote point.

1,755,858. VANITY CASE. JOHN FRANCIS BABBITT, Louisville, Ky., assignor to John V. Pilcher, Louisville, Ky. Filed June 29, 1929. Serial No. 374,887. 4 Claims. (Cl. 132—83.)



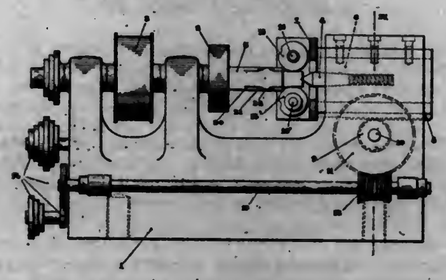
1. A vanity case comprising a pair of hinged sections, a powder pan carried in one section having a closure member provided with a powder exit opening, an applicator pad overlying said closure member and the opening therein, and yielding means carried by the other section for pressing the pad against the pan closure member when the sections are closed.

1,755,859. SYSTEM OF ELECTRICAL DISTRIBUTION. WALTER R. G. BAKER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 6, 1928. Serial No. 673,192. 5 Claims. (Cl. 175—363.)



3. The combination in a system of electrical distribution of a source of high potential alternating current, a consumption circuit which is subject to frequent and large variations in the amount of current used, a plurality of rectifiers having large internal resistance for rectifying the current from said source and delivering rectified current to said consumption circuit, and a resistance load permanently connected across said consumption circuit, said resistance load being small in comparison with the total load to be supplied.

1,755,860. SHAPING MACHINE. ADRIEN BARBA, Asnieres, Seine, France, assignor, by mesne assignments, to Audoin d'Halloy, Paris, France. Filed May 6, 1927, Serial No. 189,399, and in France May 11, 1926. 6 Claims. (Cl. 82—13.)

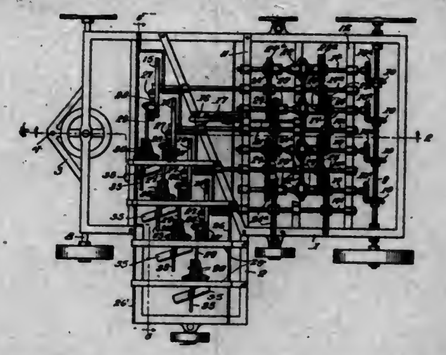


1. The method of making turned objects comprising rotating the work piece and traversing it in a plane parallel to its axis of rotation with a cutter rotating on an axis perpendicular to the axis of the work piece, the shape of whose peripheral cutting edge and the speed at which said cutter rotates are corelative functions determining a path which successive edge-points of the cutter describe in the course of its rotation coincident with an element of curvature of the form to be produced lying in a plane not coincident with the diametrical plane through said turned object.

6. Apparatus for producing turned objects, comprising a rotary work piece holder and a tool cooperating therewith, driving means for imparting relative translatory movement of said tool longitudinally of the axis of said work piece holder and in a plane parallel to, but non-coincident with the axial plane of said work piece holder, said means comprising a series of pinions of different diameters operatively connected to one of said relative movable elements, and racks meshing with said pinions and selectively operable for varying the speed of said relative movement, and means for imparting rotary motion to said tool on an axis perpendicular to the axis of said work piece holder, said tool having a cutting edge on its periphery coacting with the work piece and shaped to produce an element of curvature, the shape of which is determined by the corelative functions of the peripheral shape of the tool and the rates of movements imported to it by said driving means.

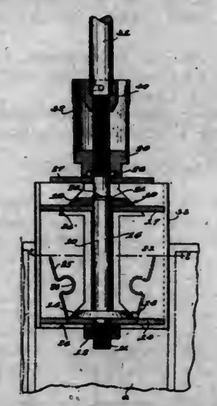
1,755,861. BEET BLOCKER. HESIQUIO BECERRA, Cheyenne, Wyo. Filed Dec. 21, 1927. Serial No. 241,646. 3 Claims. (Cl. 97—13.)

2. An agricultural machine comprising a rectangular frame, an extension laterally projecting from one side thereof, supporting wheels for said frame and extension respectively, cross bars included in said frame, bearings carried by said cross bars, a plurality of shafts of different lengths mounted in some of said bearings, and having their forward ends arranged in horisontal stepped relation with respect to each other, shafts journaled in the remaining bearings and in parallelism with the shafts first mentioned, means for driving the last mentioned shafts from the driving wheels of the frame, means for driving the first mentioned shafts from the other shafts, means for varying the speed of the last mentioned shafts, disks secured on the last mentioned shafts and on the ends thereof that are disposed in horisontal stepped relation with respect to each other, adjustable crank means carried by said



disks, arms pivotally secured to the adjustable crank means, depending means pivotally secured to said arms, and hoe shovels adjustably connected to said arms.

1,755,862. GRINDING MACHINE. ALVIN R. BERCK, Hastings, Nebr. Filed Apr. 10, 1928. Serial No. 268,847. 13 Claims. (Cl. 51—184.3.)

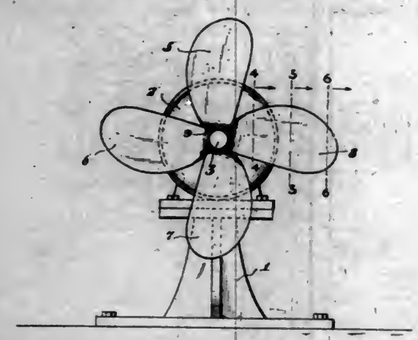


1. In a device of the class described, an arbor, a pair of spaced flat circular disks carried by said arbor, a plurality of circumferentially spaced members extending edgewise between said disks and movable radially thereof, an abrasive element encircling the outer side edges of said members, and means for adjusting said members relatively to said arbor and said disks to vary the diameter of said abrasive element correspondingly for grinding engine cylinders and the like of different sizes.

1,755,863. FAN. GEORGE O. BISHOP, Salt Lake City, Utah. Filed Sept. 26, 1927. Serial No. 222,165. 1 Claim. (Cl. 170—159.)

An air moving fan for warm air furnace work comprising a hub having extending therefrom four equally spaced blades, each of said blades having its body diagonally disposed throughout with respect to the hub and with the angle of inclination of said body gradually decreasing from the inner to the outer end thereof, said body having its inner face for a portion of its length concave and the remaining portion flat, said concave portion being of greater length than said flat portion and positioned outwardly with respect to the latter, said body having its leading edge straight throughout, its outer edge convex

throughout and its follower edge convex throughout, the inner portion of said leading edge being positioned outwardly with respect to the inner portion of the follower



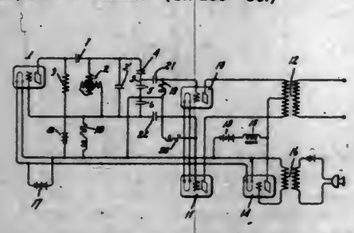
edge of an adjacent body said follower edge terminating in said hub and said leading edge having its inner portion spaced from the hub.

1,755,864. FOOD PRODUCT. ELMER B. BROWN, CHARLES N. FREY, and HARVEY H. HARKINS, New York, N. Y., assignors, by mesne assignments, to Standard Brands Incorporated, Dover, Del., a Corporation of Delaware. Filed Sept. 2, 1927. Serial No. 217,308. 10 Claims. (Cl. 99—10.)

1. As a new article of manufacture, a composition of matter comprising an extract of the acid hydrolysis of a mixture of starch and yeast.

4. The process of making a food product which comprises hydrolizing a mixture of starch and yeast with dilute acid.

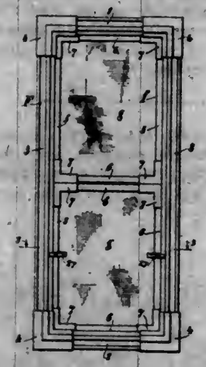
1,755,865. COUPLING CIRCUITS. HENRY R. BUTLER, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 22, 1928. Serial No. 301,331. 2 Claims. (Cl. 250—36.)



1. In combination, an electron discharge oscillation generator having an anode, a cathode and a grid, an oscillatory circuit comprising an inductance and a capacity connected in parallel between said anode and grid, a pair of push-pull connected electron discharge amplifiers, each of said amplifiers having an anode, a cathode and a grid, a connection from the cathode of said amplifiers and said oscillation generator to an intermediate point on said capacity and non-inductive connections from the grids of said amplifiers to opposite points on said capacity from said intermediate point.

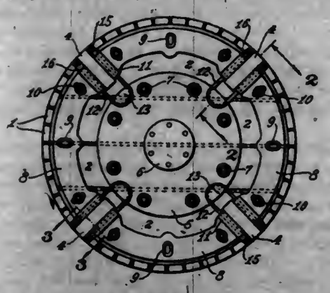
1,755,866. KNOCKDOWN WINDOW SCREEN. JOSEPH BUXBAUM, Brooklyn, N. Y. Filed Apr. 28, 1927. Serial No. 187,136. 4 Claims. (Cl. 156—14.)

2. In a window frame provided with a closure suspended from the top of said frame and having laterally projecting pins at the bottom, upright and transverse stiles, each stile formed by a single sheet of metal bent into a main hollow member having a longitudinal groove for the guidance of said pins, said metal sheet bent upon itself to form a flange extending from one side of said groove and pro-



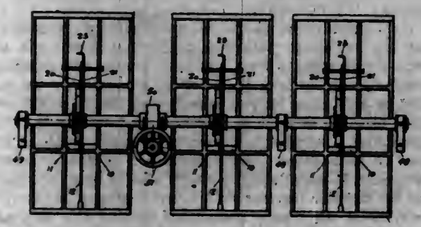
vided with stops for said pins, and said metal sheet further bent upon itself to form a second longitudinal flange projecting from said main hollow member at an angle thereto and resting on said closure.

1,755,867. LAUNDRY-DRUM CONSTRUCTION. PETER C. BRUCKMANN and WILLIAM R. HAGER, St. Louis, Mo., assignors, by mesne assignments, to Vorclone Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Oct. 28, 1926. Serial No. 144,837. 5 Claims. (Cl. 68—18.)



1. In a laundry drum including an end face and ribs removably carried thereby, a face plate secured to the end face, braces movable radially of said face plate and engaging the ribs on opposite sides thereof, and tension members anchored to said face plate engaging the braces to draw said braces inwardly.

1,755,868. SAFETY CLOSURE FOR WALL OPENINGS. WILLIAM FREDERIC CANAVAN, Montreal, Quebec, Canada. Filed Sept. 1, 1927. Serial No. 216,992. 5 Claims. (Cl. 268—24.)



1. In operating mechanism for wall opening closures, a closure frame, a bracket utilized in bodily lifting and lowering said frame and having a plurality of arms spread to grasp said frame at the bottom and intermediately, an operating lever and connecting rod pivotally secured to said bracket, a pawl pivotally secured in said lever and a ratchet suitably mounted and frictionally held in said lever.

1,755,869. CUSHION SIDE BEARING. WALTER L. DOWNEY, Richmond, Va. Filed Apr. 19, 1926. Serial No. 103,020. 2 Claims. (Cl. 308—138.)



1. A cushion side bearing, comprising a box having end and side walls, and laterally extended flanges at the tops of its end walls, a suitable number of springs arranged in said box, a cover of a length greater than the greatest distance between the outer ends of said flanges, said cover having opposite depending flanges overlapping the side walls of the box and provided with vertically slotted openings located therein beyond the end walls of the box and alined with said box flanges, said cover yieldingly mounted on the springs above the top of the box, and keys arranged transversely of the box in the openings in the cover and beneath the box flanges and outside of the end walls of the box and having vertical movement in said openings, and means to lock the keys in position.

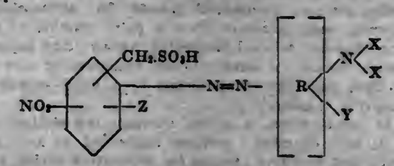
1,755,870. TIRE-CHAIN HOOK. ANSON DRINKWATER, New Hartford, N. Y. Filed Apr. 26, 1929. Serial No. 358,893. 2 Claims. (Cl. 24—232.)



1. In combination with the end links of an anti-skid chain or the like, of hooked members having their body portions pivotally secured to the outer end of one of said links, the body of the hooks being oppositely rounded and the said hooks merging into outwardly directed rounded beaks for engagement with the second end link of the chain.

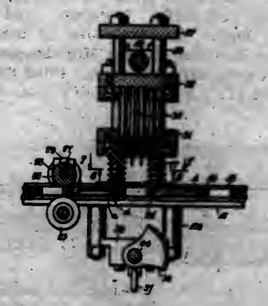
1,755,871. MONOAZO DYESTUFF PRODUCED FROM AMINOBENZYL-ω-SULFONIC ACID AND ACID SUBSTITUTED AROMATIC AMINES. WALTHER DUISBERG, Leverkusen, and WINFRID HENTRICH and LUDWIG ZEH, Wiesdorf, near Cologne, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Original application filed Feb. 12, 1926, Serial No. 87,959, and in Germany Feb. 19, 1925. Divided and this application filed Feb. 12, 1926. Serial No. 87,958. 12 Claims. (Cl. 260—90.)

1. As new products the compounds of the general formula:



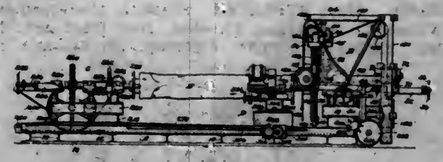
wherein R represents a nucleus of the group including the benzene and naphthalene series and X represents hydrogen, alkyl, aryl or aralkyl, Y represents a sulfonic acid, carboxylic acid or hydroxyl group and Z represents hydrogen or a nitro group.

1,755,872. METHOD OF PITTING FRUIT. ANTHONY GOTELLI, New York, N. Y. Original application filed Aug. 19, 1926, Serial No. 130,045. Divided and this application filed Sept. 24, 1929. Serial No. 394,866. 4 Claims. (Cl. 146—219.)



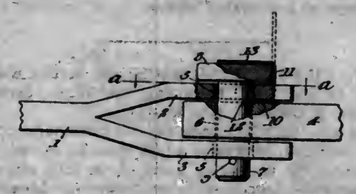
4. The method of removing pits from fruit consisting in slitting the fruit, positioning the pit within the fruit, ejecting the pit through the slit and guiding the pit as it is being ejected.

1,755,873. STONE-WORKING MACHINE. FREDERICK A. GERARSON and WILLIS A. LANE, Barre, Vt. Filed Apr. 27, 1928. Serial No. 273,292. 26 Claims. (Cl. 51—49.)



1. A machine of the character described comprising a bed, a head stock and a tail stock mounted on said bed, means for supporting a piece of material to be operated on by and between said stocks, and tools mounted on said head stock and said bed, respectively, for operation on a piece of material supported between said stocks, the tool on said head stock being reciprocal in a direction transverse with respect to the longitudinal axis of the machine.

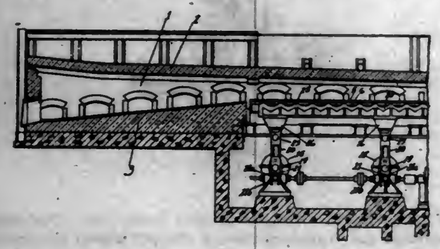
1,755,874. LOCK FOR CONNECTING PINS OR BOLTS. CLEON M. HANNAFORD, Richmond, Va., assignor to Car Devices Company, Incorporated, Richmond, Va., a Corporation of Virginia. Filed Mar. 5, 1927. Serial No. 173,070. 3 Claims. (Cl. 85—5.)



1. A lock for connecting pins or bolts, in a joint, the same comprising a clamping member adapted to fit in the pin-hole or bolt-hole in the joint and having an inner member to engage the inner side of the joint, an outer member to overlie the outer side of the joint and parallel to the inner member, and a connecting arcuate member to conform to the periphery of the pin or bolt, and an ex-

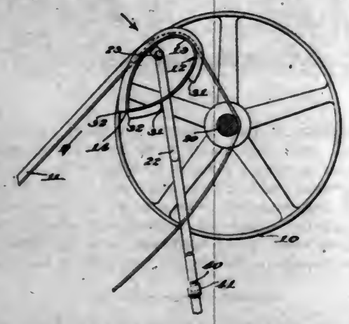
tension capable of engaging the periphery of the head of the pin or bolt and of being bent down over said head to prevent endwise escape of the pin or bolt.

1,755,875. HEATING FURNACE. HARRY HOLIDAY and WILLIAM MCKNIGHT, Glenshaw, and JOHN G. CHRISTFIELD, Butler, Pa., assignors, by mesne assignments, to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed Feb. 2, 1928. Serial No. 251,431. 10 Claims. (Cl. 214—18.)



1. In a furnace for uniformly heating corrugated ingot portions, the combination of rack elements to support the ingot portions in the furnace and to engage the corrugations of the ingot portions, and means for causing the ingot portions to roll in intermittent steps along the rack portions.

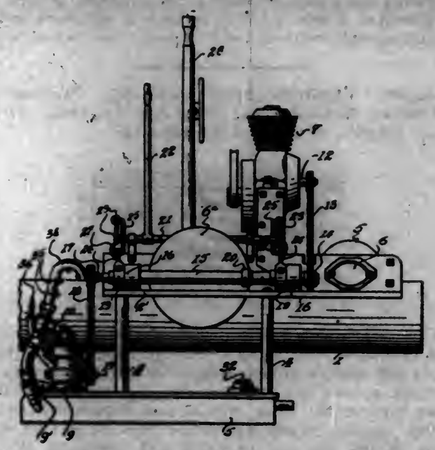
1,755,876. BELT REPLACER. FRANK L. HOMSTEAD and WILSON R. HOMSTEAD, Pittsfield, Me. Filed Apr. 20, 1928. Serial No. 271,593. 6 Claims. (Cl. 64—51.)



1. A belt replacer comprising an endless band, a rod pivotally connected to the band, a flange located intermediate the edges of the band and dividing the band into two sections, each section decreasing in width from one portion of the band to the opposite portion the band being in the shape of a distorted ellipse.

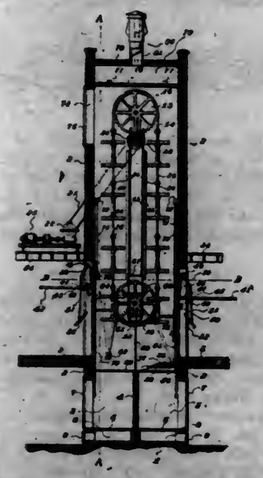
1,755,877. PIPE-PAINTING MACHINE. RALPH EMERSON JANES, Dallas, Tex. Filed Jan. 20, 1928. Serial No. 248,055. 2 Claims. (Cl. 91—44.)

1. In a pipe painting machine, the combination with a carriage mounted on wheels adapted to travel on a pipe to be painted, of an engine mounted on said carriage, a paint receptacle supported by said carriage beneath the pipe, means including a pump for applying paint from said receptacle to said pipe, means for selectively driving said pump alone and in unison with said carriage, said last named means comprising an adjustable shaft operably connected to said engine, a roller mounted upon said shaft for rotation therewith, a disk mounted for simultaneous rotation with one of said wheels, a rotatable shaft journaled in said carriage adjacent said adjustable shaft, link means between said adjustable shaft and said rotatable shaft for relatively positioning said shaft with said roller



and disk selectively in and out of contact with each other, a drive chain operably connecting the free end of said adjustable shaft with said pump.

1,755,878. CONTINUOUS SMOKING, CURING, AND TREATING APPARATUS. ROBERT E. JORDAN, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1925. Serial No. 57,191. Renewed Sept. 17, 1929. 30 Claims. (Cl. 99—9.)



1. In combination, a treating chamber; conveying means in said treating chamber; removable carriages for said conveying means; mechanical means for automatically transferring said carriages from a point outside of said treating chamber to said conveying means; and separate mechanical means for automatically transferring said carriages from said conveying means to a point outside of said treating chamber.

17. In combination, a curing chamber, an endless conveyor in said chamber; carriers supported in and movable with said conveyor; means for preventing curing gases from rising through the central section of said chamber and a removable central dividing plate positioned between the bottom of said means and said chamber.

26. A carrier for articles to be smoked or cured comprising a pair of rectangular frame members; a longitudinally disposed supporting member extending intermediate the sides of each frame member and having its ends secured to the ends of said frame member; supporting members secured to the ends of said frame members; a longitudinally disposed rod having the opposite ends thereof secured to and projecting outwardly of said supporting members; eye members supported by said rod; and lifting arms rotatably supported by the projecting ends of said rod.

29. In combination, a treating chamber, a conveyor in said chamber, a plurality of carriages detachably mounted on said conveyor, said carriages being adapted to receive articles to be treated in said chamber, means for mechanically transferring carriages to said conveyor from a point outside the chamber, and other means for transferring said carriages from said conveyor to a point outside the chamber.

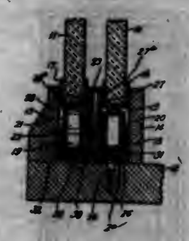
1,755,879. CONDENSATION PRODUCTS OF THE BENZANTHRONE SERIES AND PROCESS OF MAKING SAME. GEORG KALISCHER and HEINZ SCHNEER, Frankfort-on-the-Main, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a Corporation of Delaware. Filed July 9, 1927, Serial No. 204,657, and in Germany Sept. 4, 1926. 6 Claims. (Cl. 260—61.)

1. As new products condensation products of the benzanthrone series, corresponding most probably to the general formula:



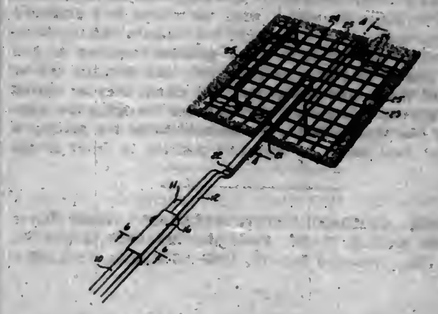
wherein R represents an aromatic nucleus substituted by hydroxyl in one of the positions ortho and para to the bridge carbon atom and wherein the benzanthrone nucleus and the aromatic nucleus R may be further substituted, being when dry yellowish to brownish colored mostly crystalline powders, soluble in organic solvents of a higher boiling point, soluble in concentrated sulfuric acid with a red to brown to olive color, mostly soluble in an alcoholic caustic alkali solution to intensely colored solutions.

1,755,880. CONSTRUCTION FOR DISPLAY CASES AND THE LIKE. HENRY F. KEIL, Scarsdale, N. Y. Filed Feb. 10, 1928. Serial No. 253,325. 15 Claims. (Cl. 16—100.)



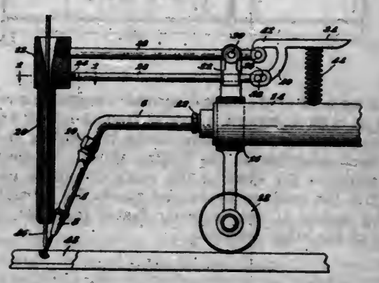
1. In a supporting means for sliding panels for display cases and the like, in combination, a plurality of rollers adapted to be positioned beneath the panel to anti-frictionally support the panel for sliding movement, and means to be positioned underneath said rollers to form a track therefor comprising a sheet metal member adapted to be secured flatwise against a base and a second sheet metal member resting upon said first member and removable therefrom and adapted to provide a smooth surface on which the rollers roll.

1,755,881. WINDOW-CLEANING DEVICE. JOHN J. KILBRIDE, Scotch Plains, N. J. Filed Oct. 12, 1928. Serial No. 312,179. 1 Claim. (Cl. 15—232.)



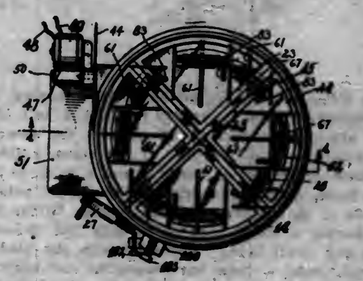
A window cleaning device including a thin, flat cleaning element comprising a sheet of absorbent material and a mesh wire frame covered thereby formed with offset aligned portions defining receiving loops, and a handle member comprising a shank adapted to be trained through the receiving loops and having a notch spaced from its free terminal for locking engagement with one of the loops.

1,755,882. WELDING TORCH. ADOLPH KREBS, Jamaica Plain, Mass. Filed Dec. 6, 1926. Serial No. 152,771. 4 Claims. (Cl. 113—59.)



1. In a device for welding metal, a burner adapted to produce a high-temperature, low-velocity flame, means for permitting movement of the burner along a predetermined path, means for controllably feeding metal into the flame of the burner at the portions to be welded, and means for moving the metal feeding means away from the flame of the burner during the welding operation.

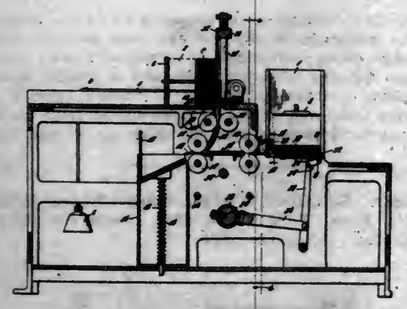
1,755,883. AUTOMATIC SLICING MACHINE. MANUEL LAMOS, Caldwell, N. J. Filed Feb. 28, 1928. Serial No. 257,714. 2 Claims. (Cl. 146—102.)



1. In an automatic slicing machine, a table rotatively mounted and arranged with a plurality of food clamps,

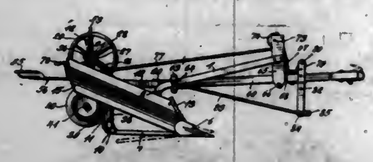
a band attached on the underside thereof, and formed with a plurality of apertures, a clamp slidably mounted on the band and arranged for being fastened in various fixed positions as determined by the spacing of the said apertures, a link pivotally connected with the clamp and arranged for reciprocating for oscillating the table, a cutting knife rotatively mounted in a fixed position relative to the table, and arranged for slicing the food held in one of the said food clamps, and the said clamp may be moved to a different position on the band for changing the position of the table relative to the said knife for placing a different food clamp in operative position in front of the knife.

1,755,884. CARD-COUNTING MACHINE. HARRY DAVID LOWD, Nashua, N. H. Filed Mar. 26, 1927, Serial No. 178,795. Renewed Oct. 10, 1929. 7 Claims. (Cl. 93—93.)



1. A machine of the class described comprising a receiver, a pair of card reservoirs, a pair of feeding rollers arranged adjacent the receiver, guiding means for leading the cards from each reservoir to the feeding rollers, an ejector for each reservoir for ejecting the cards therefrom one at a time into the guiding means and means for operating the ejecting means of one reservoir faster than the ejecting means of the other reservoir.

1,755,885. DITCHING PLOW. SCOTT O. MARTIN and ELMER H. BRIDENBAUGH, Denver, Colo., assignors, by direct and mesne assignments, of one-half to A. M. Nassif, Denver, Colo., and one-half to said Scott O. Martin. Filed May 19, 1928. Serial No. 278,948. 6 Claims. (Cl. 37—98.)



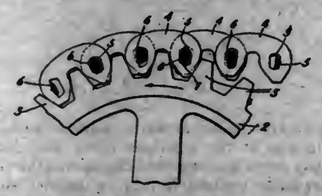
1. A ditching plow comprising a beam having its rear end downwardly and forwardly inclined, a pair of cutter blades attached at their front ends to the downwardly and forwardly extending part of the beam, a transverse brace member connecting the blades at a point to the rear of the beam, diagonal braces extending from points near the ends of the transverse brace member to the beam, a shaft having a wheel secured to each end thereof, said wheels and shaft being located between the blades near their rear ends, a draw bar connecting the shaft to the beam, a pair of guides cooperating with the draw bar and means for independently adjusting each end of the shaft separately.

1,755,886. AEROPLANE WING. JOSEPH FLOYD MCKENZIE, Abilene, Tex. Filed Apr. 18, 1928. Serial No. 270,932. 6 Claims. (Cl. 244—12.)



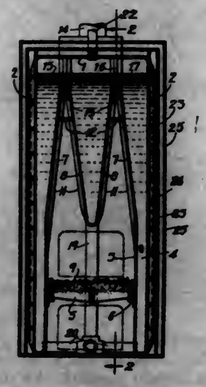
1. An aeroplane wing comprising spaced, opposed ribs standing on longitudinal edge, lengthwise curved and each including a leading and a trailing end, an expandible and contractile, lengthwise curved top arranged over said ribs and formed of two sections shiftable relatively to each other and slidably connected together, means for hinging the forward end of said top to the leading ends of said ribs, means for hinging the rear end of said top to the trailing ends of said ribs, spaced reinforcing elements secured to the lower face of each of said sections, each of said elements consisting of a series of independent, short, endwise opposed strips, and means supported from the ribs for expanding and contracting said top.

1,755,887. POWER-TRANSMISSION CHAIN. FRANK L. MORSE, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed Dec. 23, 1927. Serial No. 242,054. 9 Claims. (Cl. 74—32.)



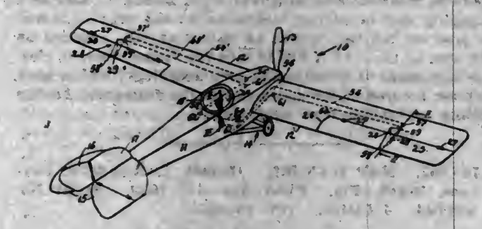
1. In a power transmission chain, the combination of links, pintles connecting said links, said pintles each having a plurality of parts, one part of which is adapted to rock upon the other part and also to slide transversely upon the other part.

1,755,888. BOILER AND THE LIKE. THOMAS E. MURRAY, Brooklyn, N. Y.; Joseph Bradley Murray, Thomas E. Murray, jr., and John F. Murray executors of said Thomas E. Murray, deceased. Filed Apr. 20, 1925. Serial No. 24,435. 2 Claims. (Cl. 122—155.)



1. A boiler having a water receptacle which is substantially rectangular in plan and the bottom of which is formed in vertical convolutions extending lengthwise from end to end of the receptacle, the upper portions of said convolutions being bent downward through a portion of their length to form transverse troughs which facilitate circulation of water.

1,755,889. AEROPLANE-CONTROL MECHANISM. VICTOR V. MUZIK, Chicago, Ill. Filed Aug. 31, 1927. Serial No. 216,526. 2 Claims. (Cl. 244—29.)



1. In combination, in an aeroplane, a fuselage, wings connected to said fuselage, ailerons connected to said wings, and control means for operating said ailerons and adapted to cause said ailerons to be lowered to increase the angle of incidence of the wings, said control means including a joy stick pivotally mounted at its lower end, wiring between the joy stick and the ailerons of the plane adapted to be actuated by the joy stick to bank the plane, said wiring being connected to said joy stick on both sides of the pivot for said stick and an arm pivotally mounted on an intermediate portion of said joy stick including pulleys above and below the axis of its pivot, said wiring extending over said pulleys whereby said arm may be actuated independently of said stick to lower the ailerons and thus vary the angle of incidence of the wings.

1,755,890. AQUEOUS RUBBER EMULSION AND PROCESS OF PRODUCING THE SAME. WILLIAM BEACH PRATT, Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del., a Corporation of Delaware. Filed Apr. 11, 1923. Serial No. 631,451. 21 Claims. (Cl. 134—1.)

1. A process of emulsifying previously-coagulated crude rubber in water, which comprises dispersing the rubber in the form of rubber globules in an aqueous medium with soap as the dispersing or emulsifying agent, and then separating soap therefrom, leaving the globules of the size and shape of those of the original latex dispersed in the water.

3. A process of emulsifying previously-coagulated crude rubber in water, which comprises dispersing in an aqueous medium the rubber, in the form of rubber globules of the size and shape of those of the latex from which the crude rubber was derived with soap as the dispersing or emulsifying agent, and then separating soap and water therefrom without coagulating the rubber globules.

1,755,891. PROCESS OF DISPERSING COAGULATED BODIES. WILLIAM BEACH PRATT, Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del., a Corporation of Delaware. Filed July 10, 1924. Serial No. 725,207. 12 Claims. (Cl. 134—1.)

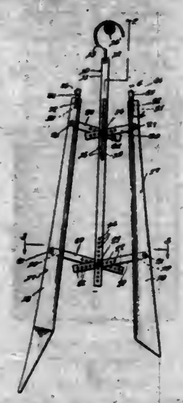
1. An aqueous dispersion of "non-polymerized" previously-coagulated rubber and an inorganic colloid which is not in excess of 15% by weight of rubber, in which the rubber globules possess the same characteristics as those before the rubber was dispersed, said dispersion resulting from the kneading and stretching of a coherent, plastic mass of rubber in the presence of such colloid while gradually adding water.

4. A non-sticky aqueous dispersion of previously-coagulated rubber, comprising separated crude rubber globules, and a colloid, said globules being coagulated with difficulty, if at all, upon the addition of acetic acid to the mass, but said globules coagulating upon removal of the water from the mass, said dispersion resulting from the manipulation of a coherent, plastic mass of rubber in the presence of such colloid and water.

1,755,892. PRODUCTION OF AQUEOUS RUBBER DISPERSIONS. WILLIAM BEACH PRATT, Wellesley, Mass., assignor, by mesne assignments, to Dispersions Process, Inc., Dover, Del., a Corporation of Delaware. Filed July 10, 1924, Serial No. 725,208. Renewed Sept. 14, 1927. 6 Claims. (Cl. 134—1.)

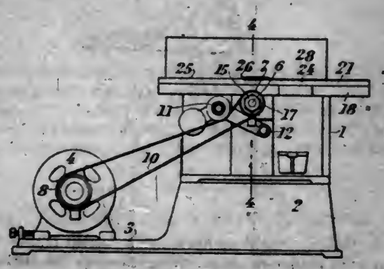
1. A process of dispersing rubber or rubber compounds, which comprises incorporating an organic water-carrying colloid into the mass, and then adding an aqueous solution, free from free alkali, of a stable chemical compound produced by combining a non-metallic colloid and a caustic alkali.

1,755,893. COMBINATION TROUSER CREASER AND SHAPER. GEORGE PREBENSEN, Chicago, Ill. Filed Dec. 31, 1926, Serial No. 158,296. Renewed Sept. 18, 1929. 1 Claim. (Cl. 223—19.)



In a trouser creaser, a substantially U-shaped supporting member having slots formed in the limb portions thereof, said limb portions having a plurality of aligned openings therein adjacent the lower ends thereof, substantially V-shaped creasing members, links for connecting said creasing members to said supporting member adapted to be disposed in cooperating pairs, means for connecting certain of said pairs of links to said supporting member including portions adapted to be selectively inserted into said openings in said limb portions, and means for connecting the other of said pairs of links to said supporting member including portions adapted to extend through said slots, and teeth formed in said slots adapted to selectively engage and retain said portions disposed in said slots.

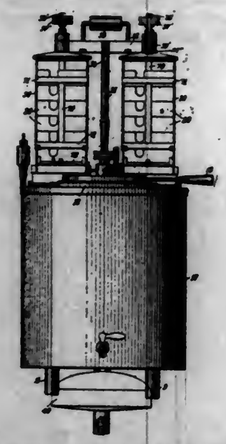
1,755,894. JOINTER ATTACHMENT FOR PORTABLE SAWING MACHINES. DANIEL F. PRINTZ, Reading, Pa.; The Penn National Bank and Trust Company, executor of said Daniel F. Printz, deceased, assignor to Ephrata Manufacturing Company, Ephrata, Pa., a Corporation of Delaware. Filed Dec. 16, 1927. Serial No. 240,472. 5 Claims. (Cl. 144—117.)



1. A wood-working machine comprising a table having an opening therein, a spindle extending substantially par-

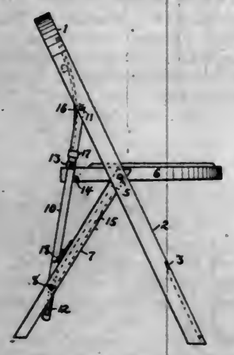
allel therebeneath, a cutting tool mounted on the spindle and having a cutting edge extending substantially transversely thereof, the said tool projecting through the opening in the table, and a plate superposed on the table and having an opening through which the periphery of the said tool projects and having portions adapted respectively to guide the material before and after it is cut, and a vertically and horizontally adjustable follower on said table adjacent the opening, to guide material past the cutting tool.

1,755,895. STERILIZER. PAUL P. PUPILLA, Bradley Beach, N. J. Filed May 12, 1926. Serial No. 108,705. 6 Claims. (Cl. 167—3.)



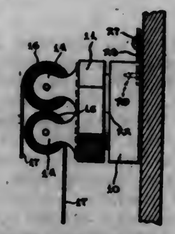
1. Sterilizing apparatus, comprising a sterilizing tank, a rack for receiving articles to be sterilized and movable into and out of the tank, a lid member for the tank and carried by the rack, means to limit the extent of movement of the rack, a rod movable with the rack and having openings corresponding to its raised and lowered positions, a movable arm having a pin adapted to fit into the openings of said rod, and adjustable means to force the lid member to the tank to seal the latter, the said locking pin when in the opening for lowered position of rack in tank serving as an abutment and being locked thereby against withdrawal from the opening.

1,755,896. FOLDING CHAIR. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed Aug. 5, 1925. Serial No. 48,195. 2 Claims. (Cl. 155—142.)



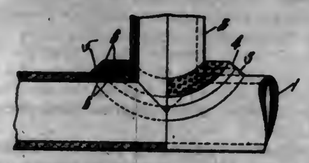
1. A folding chair comprising a main frame having spaced side members constituting forelegs; a tilting seat supported between said forelegs; rear legs having pivotal connection with said forelegs; a pair of pendant arms having pivotal connection respectively with said forelegs at points thereon above the said seat and having a stop in connection therewith for limiting the upward movement of the rear end of the seat and having also operable relation with said rear legs; means on said seat engaging and actuating said arms as the seat is moved to position for use, means on said rear legs engaged by the seat as the seat is folded into the frame whereby closing movement is imparted to said rear legs; and a back member secured at its upper end in the frame and having sliding connection with said arms.

1,755,897. MAP HANGER. GEORGE T. ROBINSON, Daytona Beach, Fla. Filed Apr. 10, 1929. Serial No. 354,044. 4 Claims. (Cl. 40—85.)



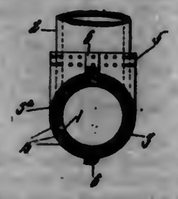
1. A hanger of the kind indicated consisting of a hanger bar, means for pivotally supporting said bar at its longitudinal center, brackets mounted at the extremities of the bar and arranged in superposed pairs and spring actuated rollers mounted in said brackets and having double faced maps reeled upon them in opposite directions.

1,755,898. FIBER CONDUIT JOINT AND METHOD OF MAKING SAME. BERTWELL C. ROOT, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed June 7, 1926. Serial No. 114,267. 2 Claims. (Cl. 285—105.)



1. A non-leaking fibrous joint comprising a tubular conduit having an opening for the angular reception of another conduit, a plurality of superposed, curved washers fitted over and pegged to said conduit surrounding the opening and serving as a socket member, and another tubular conduit fitted within and pegged to said socket member, said joint and pegs being saturated with a thermoplastic waterproofing agent.

1,755,899. CONDUIT CONNECTION. BERTWELL C. ROOT, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed June 7, 1926. Serial No. 114,269. 4 Claims. (Cl. 285—105.)



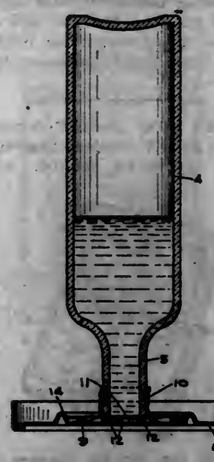
1. A non-leaking fibrous conduit connection comprising a conduit having an opening for angular communication with another conduit, a split coupling surrounding said conduit and having a projecting socket portion for the reception of another conduit at said opening, another conduit held within said socket portion, and wooden pegs passed through and holding the parts of said connection together, said connection being saturated with a thermoplastic waterproofing material which serves to bond the parts together at their junctures.

1,755,900. COUNTER-MOLDING APPARATUS. JEAN HENRY SCHAFFENBERG, Lynn, Mass., assignor to J. Hammond Stewart, Lynn, Mass. Filed Jan. 26, 1929. Serial No. 335,279. 15 Claims. (Cl. 12—66.)



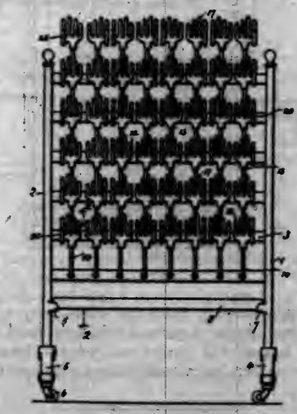
1. Instruments for molding shoe counters with a dip at their wing extremities, comprising cooperating complemental last and mold members, the counter flange-sustaining surface of which last member is outwardly curved in the part flanked by the wing extremity of a counter in the process of being molded, a flange presser for pressing the rear part of the counter flange mounted to travel along the flange-supporting surface of the last, a tiltable presser pivoted to the advancing end of said flange presser and protruding ahead of it, being curved complementally to the outwardly curved part of said surface, and a spring acting between said flange presser and tiltable presser for causing the latter to exert pressure on that part of the counter flange which lies adjacent to said curved surface.

1,755,901. FUMIGATING DEVICE. HARRY A. SEARLE, Council Bluffs, Iowa. Filed Jan. 14, 1929. Serial No. 332,317. 1 Claim. (Cl. 299—23.)



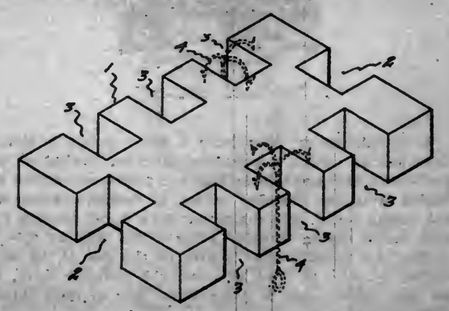
An improved fumigating device comprising a wide pan open to the atmosphere throughout and having an upwardly pressed ridge at its outer margin, lugs extending in annular spaced relation about the central part of the pan, a threaded and perforated socket carried upon said lugs above the bottom of the pan, a receptacle for liquid having a threaded neck screwed into the socket, a base member extending out from the ridge wall of the pan, and a downwardly projecting portion extending angularly about the outer rim of said base portion.

1,755,902. GLOVE-DRYING RACK. SALVATORE TASCARELLA, Brooklyn, N. Y. Filed Apr. 23, 1929. Serial No. 357,585. 2 Claims. (Cl. 211—182.)



1. A drying rack, comprising a pair of upright standards, a plurality of bars connecting said standards, a base for each standard, a bracket carried by each standard, a drip pan carried by said brackets, a plurality of arms supported by said bars, and an article-receiving member carried by each of said arms, said article-receiving member being offset from one face of said bars to a position vertically above said pan, so that the drip will fall from said article into said pan.

1,755,903. FISHHOOK HOLDER. CHARLIE J. TOWNSEND, Pocatello, Idaho. Filed June 20, 1929. Serial No. 372,470. 1 Claim. (Cl. 43—31.)

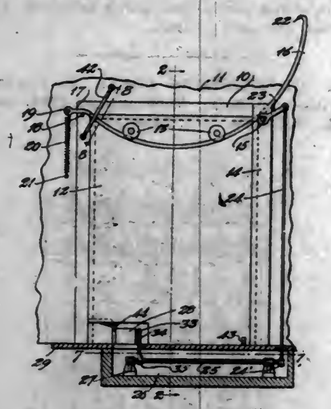


A fish hook holder comprising a rectangular rigid block of relatively soft material, a plurality of cut away portions disposed around the sides of said block, said cut away portions being adapted to receive therein the shanks of a plurality of fish hooks with the points embedded in the block.

1,755,904. DOOR OR GATE OPERATING DEVICE. EDWARD R. TURNER, Holly, Colo. Filed Oct. 30, 1928. Serial No. 316,053. 2 Claims. (Cl. 39—67.)

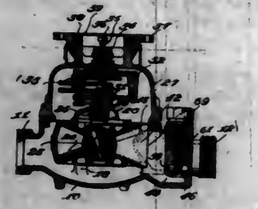
1. In a door and gate opening and closing device, a frame, a closure, a horizontal shaft journalled in said

frame, an arcuate track fixed intermediate its ends to said shaft with its lower edge convex, roller hangers running on said track and carrying said closure, a rock arm fixed to the shaft, to rock the same and tilt the track, a link



extending downwardly from the rock arm, a rock shaft below the level of the closure, a rock arm fixed on the rock shaft and having the lower end of the link connected thereto, and vehicle operated means for actuating said rock shaft.

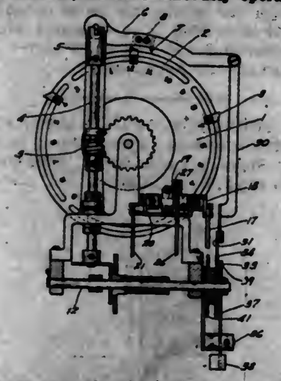
1,755,905. METER. HARRY G. WEYMOUTH, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1929. Serial No. 353,187. 4 Claims. (Cl. 73—98.)



4. A fluid meter comprising a meter casing having an inlet and an outlet, a measuring chamber having an inlet and outlet disposed side by side and positioned within said casing with the chamber outlet in communication with the casing outlet, said casing having a direct passage from said meter casing to said casing outlet opening into the casing at a point thereof located on the side of the casing outlet opposite to that adjacent the chamber inlet, and an adjustable valve to control the flow of fluid through said passage.

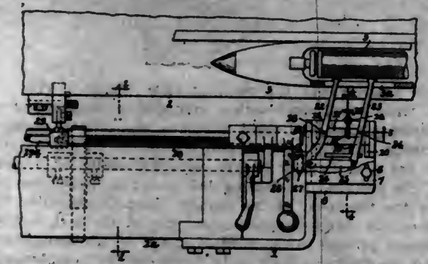
1,755,906. TIME RECORDER. JAMES W. YATES, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 15, 1920. Serial No. 381,528. 5 Claims. (Cl. 234—43.)

1. In a time recorder having time printing means the combination of means for shifting a two color printing ribbon to bring the desired color opposite the printing point of the printing means, a distinguished type face for irregular registrations, means for shifting the same into position opposite said printing point, a lever, a clock shaft and mechanism driven thereby, and controlled by the clock operated mechanism, for simultaneously operating the said



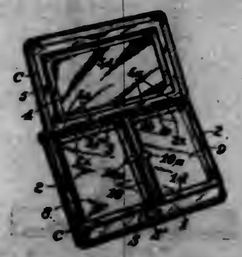
two shifting means, whereby both a distinguishing color and a distinguishing type face is impressed upon the operator's card.

1,755,907. FEELER MOTION FOR LOOMS. FREDRIK ZWIEBEL, Prospect Park, N. J. Filed June 21, 1929. Serial No. 372,573. 4 Claims. (Cl. 139—286.)



1. In a loom, the combination, with the fixed structure and also the reciprocating lay thereof and with a shuttle on the lay having the axis of its contained filling package extending lengthwise of the lay, of a feeler mechanism comprising a carrier on said structure yieldable in one and normally urged in the other direction in which the lay reciprocates, a pair of feeler levers having independent fulcra in the carrier and each adapted to contact with the package and offset lengthwise of and projecting toward said axis and forming therewith acute angles pointing in approximately the same direction and each movable on its fulcrum in a plane cutting the package lengthwise thereof, and means to transmit pivotal movement from each lever to the other.

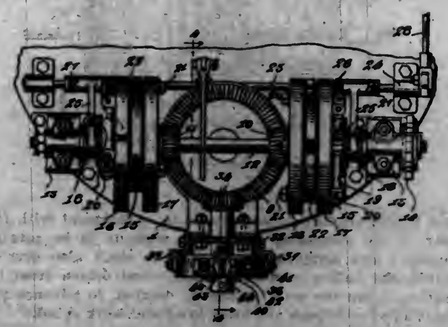
1,755,908. VANITY BOX. JOHN F. BABBITT, Louisville, Ky., assignor to John V. Pilcher, Louisville, Ky. Filed Aug. 20, 1928. Serial No. 300,790. 4 Claims. (Cl. 220—1.)



1. A rectangular box for the purpose described comprising a box body, a frame member hinged thereto comprising a single piece of sheet metal having an open center,

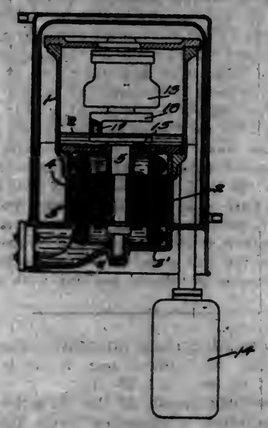
the edges forming said open center being displaced inwardly from the plane of the frame toward said box body, outer edges of said frame being turned back over the outer face thereof, a cover plate having tongues engaging said turned back edges, and a mirror having its edges held in the spaces formed between said offset edges and the cover plate.

1,755,909. BRAKE. JAMES T. BERNARD, Danville, Va. Filed Aug. 22, 1928. Serial No. 301,395. 2 Claims. (Cl. 212—69.)



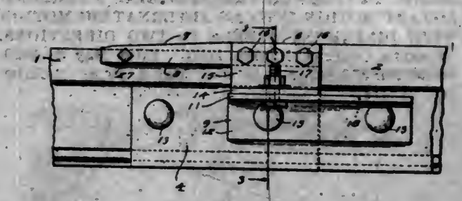
1. In combination with a turntable of a power apparatus and its drive means including a drive shaft on the table, a pair of pinions loosely arranged on the shaft, a vertical shaft passing through the table, a gear on the upper end thereof meshing with the pinions, means for imparting movement to the table from said vertical shaft, clutch means for connecting each pinion to the drive shaft, a clutch shaft which, when rocked in one direction, will operate one clutch means without operating the other means and when rocked in the opposite direction, will operate the second clutch means without operating the first means; a brake shaft journaled on the table, a gear on said brake shaft meshing with the gear on the vertical shaft, a drum connected with the brake shaft, a brake band on the drum, means for normally holding the band contracted and means connected with the rock shaft for expanding the band when the rock shaft is moved to throw either clutch means into operative position.

1,755,910. PUMP AND MOTOR UNIT FOR REFRIGERATING MACHINES. BERNHARD BISCHOF, Geneva, Switzerland, assignor of one-half to Charles Haccius, Cologny-Geneva, Switzerland. Filed Dec. 26, 1924, Serial No. 758,240, and in Switzerland Jan. 2, 1924. 9 Claims. (Cl. 230—208.)



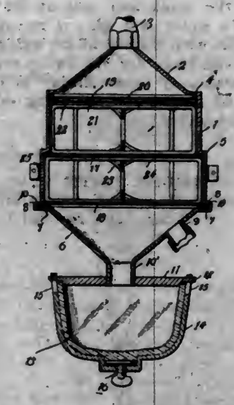
1. In a motor compressor unit, the combination of a motor having a rotor and a stator, said motor being arranged with its shaft vertical, compressing means, a casing entirely enclosing said motor and the compressing means, said casing having an upper and a lower bearing for said shaft, said upper bearing of said motor and the upper part of said casing forming a chamber, the upper end of the shaft projecting beyond said bearing into the chamber, said rotor and said stator being entirely surrounded by oil.

1,755,911. MEANS TO PREVENT BATTERING OF NEW RAILS. JUNIUS E. BUSBY, Jackson, Ky., assignor of one-half to Matt Deaton, Chavies, Ky. Filed Nov. 12, 1929. Serial No. 406,673. 11 Claims. (Cl. 238—220.)



1. A device for preventing the battering of the end of a new rail joined to an old rail, comprising a bridge plate adapted to be arranged upon the old rail, the bridge plate having a horizontal tread portion adapted to aline with the tread of the new rail and having a sloping tread portion adapted to extend from said horizontal tread portion to the tread of the old rail, and means adapted to secure the tread plate upon the old rail.

1,755,912. OIL FILTER. BENJIMAN HARRISON CARLISLE, Petersburg, Ind. Filed Oct. 1, 1928, Serial No. 309,469. Renewed Jan. 9, 1930. 1 Claim. (Cl. 210—165.)

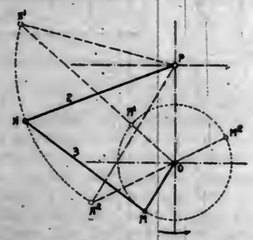


A filter comprising a casing having walls and a top, marginal portions of the top forming a shoulder, the upper portions of the walls being set inwardly to form a shoulder intermediate the height of the casing, a bottom having an annular flange about its upper end removably secured to said casing and projecting inwardly from walls of the casing, upper and lower filtering elements and an intermediate filtering element, the upper and intermediate filtering element being engaged with the upper and lower shoulders of the casing and the lower filtering element resting upon the flange of said bottom, a supporting frame engaged between the upper and intermediate filtering elements, and a similar frame engaged between the intermediate filtering element and lower filtering element, said frames serving to maintain the filtering elements vertically spaced and engaged with the respective shoulders and said flange, said filtering elements and frames being removable through the lower end of the casing when the bottom is detached.

1,755,913. PROCESS FOR PRODUCING COMPOSITE METALS. HENRY L. COLBS, Hamilton, Ohio, assignor to Guardian Metals Company, Hamilton, Ohio, a Corporation of Delaware. Original application filed Nov. 22, 1927, Serial No. 234,957. Divided and this application filed Nov. 9, 1928. Serial No. 318,313. 11 Claims. (Cl. 22—203.)

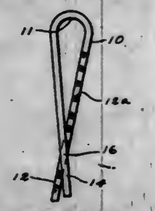
6. A method of producing burglar-proof vault doors, comprising forming a drill-proof core member, spraying the core with an alkali nitrite, and casting a sheath of heat-conductive metal in and around the core.

1,755,914. DEVICE FOR TRANSFORMING A UNIFORM ROTARY MOTION INTO AN ALTERNATING MOTION WITH DIFFERENT SPEEDS IN TWO DIRECTIONS. GIUSEPPE COLUCCI, Naples, Italy. Filed May 2, 1929, Serial No. 359,842, and in Italy May 3, 1928. 1 Claim. (Cl. 74—14.)



Device for transforming a circular uniform motion into an alternating motion with a speed in one direction different from the speed in the other direction, comprising a crank, a swing arm pivoted at a distance from the axis of rotation of the crank greater than the crank length, a connecting rod which connects the free ends of the crank and swing arm and having an intermediate length between the length of the crank and that of the swing arm, a slide, a guide in which said slide is movable, a link connecting said slide with the end of the swing arm, a second slide carrying the hinge for the swing arm, a guide for said slide substantially perpendicular to the guide mentioned above and a set screw for fixing said second slide in the adjusted position.

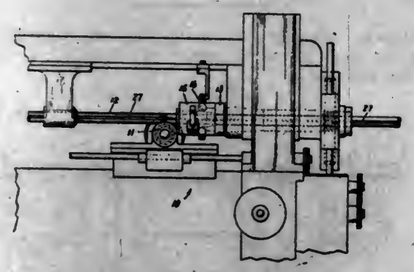
1,755,915. REVERSIBLE PAPER CLIP. KENNETH P. DURHAM, Seattle, Wash. Filed July 30, 1929. Serial No. 382,094. 7 Claims. (Cl. 24—261.)



1. A wire clip for securing sheet materials by being reversed in position thereon comprising a bend, two legs which cross, outwardly extending projections on one side of each leg so positioned as to form a toothed jaw when in the binding position.

1,755,916. SHAFT-ADVANCING MECHANISM FOR USE IN HOBBING LONG MULTIPLE GROOVES IN SHAFTS. ULRICH SETH EBERHARDT, Maplewood, N. J., assignor to Newark Gear Cutting Machine Company, Inc., Newark, N. J., a Corporation of New Jersey. Filed Dec. 19, 1928. Serial No. 326,955. 5 Claims. (Cl. 90—11.)

1. In a shaft grooving machine embodying a hobbing cutter to effect the cutting of longitudinal grooves in a shaft, and a rotatable work spindle through which said shaft is adapted to pass: a shaft advancing or work head comprising an element fixed with reference to the frame of the machine, a gear carried thereby, and a hollow element rotatable with said work spindle and mounted within the said stationary element; gearing carried within the



said hollow rotatable element and in engagement with the gear of the associated stationary element to be rotated thereby; and gripping means for the shaft also carried within the hollow rotatable element and driven from its gearing, when the work spindle is rotated, to advance the shaft axially through the work head and work spindle.

1,755,917. BANK COUNTER. PAUL A. DAVIS, 3d, Philadelphia, Pa., assignor to Davis, Dunlap & Barney, a Partnership composed of Paul A. Davis, 3d, M. Edmunds Dunlap, and William Pope Barney, Philadelphia, Pa. Filed Sept. 17, 1928. Serial No. 306,889. 3 Claims. (Cl. 45—140.)

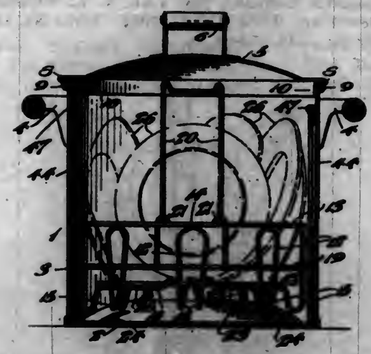


3. In a device of the kind described, in combination a support, a work counter mounted thereon, a vertical riser mounted on the counter and having an inwardly extending grille-supporting shelf overlying a plurality of pairs of vertically positioned spaced walls on the counter secured and in transverse relation to said riser, one of said pairs of spaced walls defining in combination with a wicket hinged in said riser, a teller's compartment, a pair of other compartments within the limits defined by the grille-supporting shelf, the work counter and the pairs of vertically positioned spaced walls, an upright wall in the rear of and spaced from the said riser, a pair of roll tops normally closing said pair of other compartments but slidably adjustable to a position between said wall and riser to uncover said other compartments, and drawers coactingly connected to the roll tops, said drawers being arranged below the counter in aligned position with said roll tops.

1,755,918. CONVERTIBLE UTENSIL. CLAIR R. FAGLEY, Philadelphia, Pa. Filed Aug. 5, 1929. Serial No. 383,614. 7 Claims. (Cl. 53—1.)

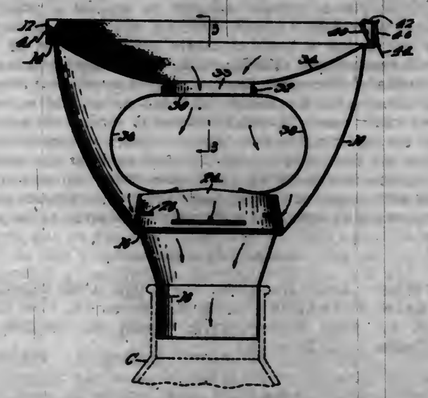
1. A convertible utensil of the character stated, comprising a container, a removable cover therefor, a wire frame positioned within said container, said wire frame

being reversible and being adapted to form a basket for receiving dishes and the like when in the upright position and to form a support for cooking utensils when in the



inverted position, and a convex false bottom positioned below said frame and provided with outer peripheral recesses and with upwardly extending nipples.

1,755,919. MILK STRAINER. JOHN FRIBERG, Westboro, Mass. Filed June 27, 1929. Serial No. 374,162. 4 Claims. (Cl. 210—159.)



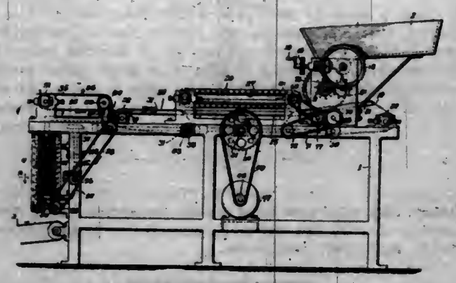
1. A milk strainer comprising an outer casing having upper and lower internal shoulders, a combined screen and filter supported on said lower shoulder, an inverted cap for said screen and filter having an imperforate top and openings in its side walls for the admission of liquid thereto, an upper screen, a covering member on which said upper screen is mounted, said covering member being supported on said upper shoulder of said outer casing, means to hold said covering member in position, and means supported by said upper screen and covering member effective to hold said inverted cap and lower screen and filter in position.

1,755,920. RAIL JOINT. CARMELO FURNARI, TONY BASILE, and ROSS SCIOTTO, Altoona, Pa. Filed Aug. 15, 1929. Serial No. 386,136. 3 Claims. (Cl. 238—180.)



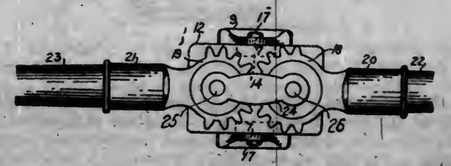
1. In a rail structure of the class described, a pair of complemental rails having their web portions cut out to provide a longitudinal key-slot, a removable retaining and coupling key arranged in said slot for joining the ends of said rails together, and slidably mounted retaining plates associated with the rail ends and disposed on opposite sides of the web portion for maintaining said key within its slot, and means on the web portions of said rail ends for limiting the sliding movement of the complemental plate in one direction, said rail ends being provided with latch seats, and slidable retaining latches carried by the plates and cooperable with said seats for holding the plates in position.

1,755,921. BAGLE-FORMING MACHINE. LOUIS GENDLER, New York, N. Y. Filed Feb. 27, 1929. Serial No. 343,086. 11 Claims. (Cl. 107—4.)



11. A bagle-forming machine, including means for forming cylindrical members from small batches of dough, a forming rod positioned to receive said cylindrical members immediately after forming, means for moving said cylindrical members along said rod, means for bringing the ends of said cylindrical members together around said rod, and forming belts arranged adjacent one section of said rod for completing the action of said cylindrical members to form complete ring structures.

1,755,922. ROWING APPARATUS. ALBERT E. HECOX, Lansing, Mich. Filed June 28, 1929. Serial No. 374,337. 1 Claim. (Cl. 9—25.)



In a rowing apparatus, a clamp base having spaced upstanding ears, the said base having a flat top and a flat downwardly extending rear body plate and spaced downwardly extending reinforced portions in front provided with thumbscrews for securing the clamp base to the gunwale of a boat, the said reinforced portions extending for a distance over and upon the top of said clamp base, the said rear plate having downwardly extending reinforced portions near the ends formed integrally with the said ears, a rocker plate provided on the bottom with ears arranged next to the ears of the clamp base and pivotally attached thereto, said rocker plate having diagonal reinforcing ribs on the bottom, said rocker plate having on the top integral raised gear seats spaced apart, an oar and a separate operating handle having geared disks meshing with each other and pivotally secured upon the said gear seats of the rocker plate.

1,755,923. SHOVEL. MARTIN HOKANSON, Duluth, Minn., assignor to Marshall-Wells Company, Duluth, Minn., a Corporation of New Jersey. Filed July 18, 1924. Serial No. 726,776. 3 Claims. (Cl. 306—32.)

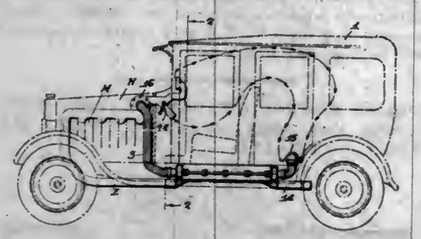
1. A tool blade having an extension formed by folding longitudinally to bring the longitudinal free edges in adja-

cent substantially parallel relation to form a socket, a handle having a reinforcing blade, means encircling the



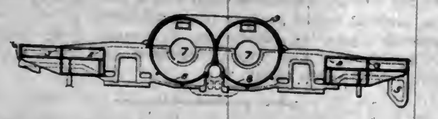
handle and blade and lying within the socket, and a rivet passing through the walls of the socket encircling means, handle and reinforcing blade.

1,755,924. COMBINED MUFFLER AND AIR HEATER. RAYMOND H. KEAGLE and STANLEY E. KEAGLE, Minneapolis, Minn. Filed Aug. 14, 1928. Serial No. 299,617. 2 Claims. (Cl. 257—241.)



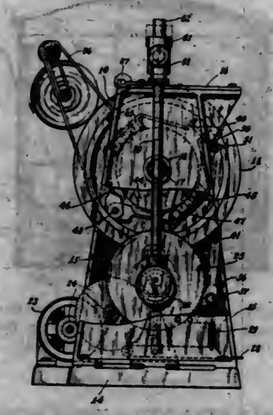
1. A combined muffler and air heater comprising a cylindrical sectional casing, an air circulating pipe extending through said casing and arranged concentrically therewith, a plurality of spiral webs formed with each section of the casing, adapted to form a continuous spiral baffle extending around said air circulating pipe, and short conduits formed at the opposite ends of said casing for connection with the exhaust manifold of a motor, whereby the exhaust gases may be caused to travel through said casing around said air circulating pipe and subsequently be exhausted therefrom.

1,755,925. LOCOMOTIVE FRAME. BENJAMIN K. KIRK, Philadelphia, Pa. Filed Jan. 29, 1929. Serial No. 335,865. 1 Claim. (Cl. 105—172.)



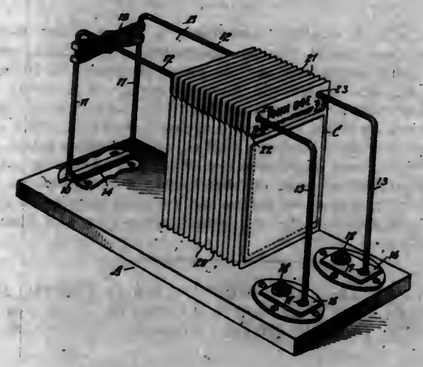
The combination in an electric locomotive frame; two side frames having pedestals for axles and bearings for a jack-shaft; two cradles for the motors, one cradle being on one side of the line of the jack-shaft and the other on the opposite side thereof; and a motor cradle cap enclosing both motors and detachably mounted on the frame.

1,755,926. APPARATUS FOR APPLYING MARGINAL STRIPS TO ARTICLES. CHARLES W. LEGUILLON and JOHN R. GAMMETER, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 21, 1924. Serial No. 714,904. 11 Claims. (Cl. 154—1.)



7. Apparatus for applying marginal strips of rubber to pieces of fabric, the said apparatus comprising an even surfaced platen member adapted to support a sheet of rubber in smoothly spread condition upon its face, means for supporting a piece of fabric with a margin of the fabric overhanging therefrom and in overlapped relation to a margin of the rubber sheet, a presser, a cutter, a mounting common to the presser and the cutter and movable from and toward the platen member to actuate the presser and the cutter against the platen member as a backing, to press the two margins together and to sever the rubber along the said margins, the presser being movable upon said mounting, and yielding means urging the presser member toward an advanced position with relation to the cutter.

1,755,927. MERCHANDISE PACKAGE AND DISPLAY RACK THEREFOR. LOUIS N. LEVINSOHN, New York, N. Y. Filed Sept. 7, 1929. Serial No. 390,979. 2 Claims. (Cl. 211—59.)



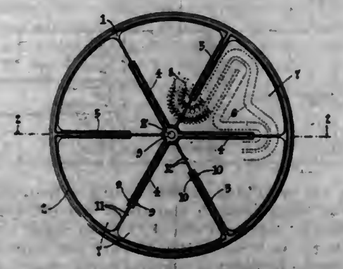
1. A theft proof display rack for packaged merchandise comprising a base member, a frame having a substantially horizontal portion for slidably and pendently supporting the packaged merchandise from the upper ends, means pivoted at one end to the base member and connected at its other end with one end of the horizontal portion, the other end of the horizontal portion having a free end extended downwardly engaging the base member and co-operating with the pivoted means for maintaining the horizontal portions in spaced relation with the base member, and means for locking the free end of the frame to the base member.

1,755,928. SAFETY AEROPLANE CONTROL STICK. JOE BEN LIEVER, San Antonio, Tex. Filed Dec. 13, 1929. Serial No. 413,856. 1 Claim. (Cl. 244—29.)



A student's control stick for airships comprising a lower tubular section and an upper tubular section, flanges on the confronting ends of the sections having peripheral notches, swingable bolts carried by the lower flange movable through the notches, wing nuts on said bolts, a coil tension spring having one end fixedly secured in the lower section, a bolt member connected with the outer end of the coil spring, a tubular handle on the upper stick section having a partition through which the bolt is threaded, a lock nut on the bolt contacting with the partition and said handle being turnable on the said stick section for imparting a longitudinal movement to the bolt and for adjusting the spring.

1,755,929. ELECTRIC HEATING ELEMENT. KEITH CHARLES MACNABB, Carleton Place, Ontario, Canada, assignor to Findlay Bros. Co. Limited, Carleton Place, Ontario, Canada. Filed Feb. 20, 1929. Serial No. 341,455. 4 Claims. (Cl. 219—37.)



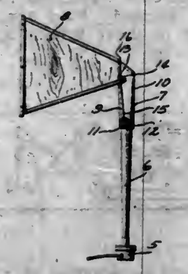
1. In an electric heating element, a substantially sector-shaped block of refractory material having open-ended grooves formed on one side thereof, the grooves in said blocks opening at one end on one side of said block adjacent the apex thereof while the other ends of said grooves open on the other side of said block adjacent the arcuate end thereof.

1,755,930. POWER CABLE. WASHINGTON IRVING MIDDLETON, Watertown, Mass., assignor to Simplex Wire and Cable Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 26, 1929. Serial No. 358,227. 5 Claims. (Cl. 173—267.)



1. A power cable which comprises at least a pair of conductors twisted around one another and each formed of cabled strands in layers, the interstices in each conductor being filled with rubber, a rubber sheath around the conductors, a layer of insulating fabric over the rubber sheath, a continuous film of oil-proof lacquer over the fabric, and a sheath of armor over the film.

1,755,931. SOUND-AMPLIFYING HORN. HERMAN C. MUELLER, Milwaukee, Wis. Filed Apr. 8, 1929. Serial No. 353,310. 12 Claims. (Cl. 181—27.)



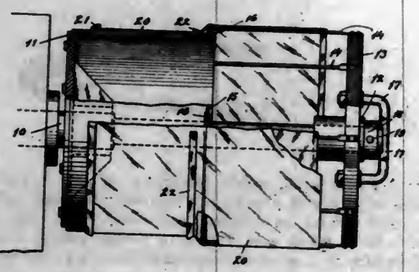
1. In a horn having angularly related portions, the combination with said portions of a sound reflector positioned in the angle at the juncture of said portions, the area of said reflector being greater than that of a cross section of one of the portions and angularly disposed to intercept substantially all portions of a sound wave propagated through said portion and to reflect said sound wave into the other of said portions substantially symmetrically with reference to the axis thereof.

1,755,932. AIRCRAFT PONTOON. JAMES A. PENDERGRASS, Franklin Furnace, Ohio. Filed June 5, 1929. Serial No. 368,470. 8 Claims. (Cl. 244—2.)



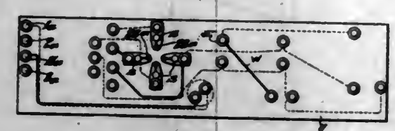
1. In a pontoon of the class described, a cylinder extending vertically through the pontoon and open at both ends, a circular bearing plate in the bottom end of the cylinder, a rotatable ball on said bearing plate projecting partially therethrough below the pontoon, and a vertically adjustable thrust bearing engaging the top of the ball and supported in the cylinder.

1,755,933. MACHINE FOR FOLDING TIRE BANDS. FRED B. PFEIFFER, Akron, Ohio, assignor to Seiberling Rubber Company, Barberton, Ohio, a Corporation of Delaware. Filed June 18, 1929. Serial No. 371,897. 8 Claims. (Cl. 154—10.)



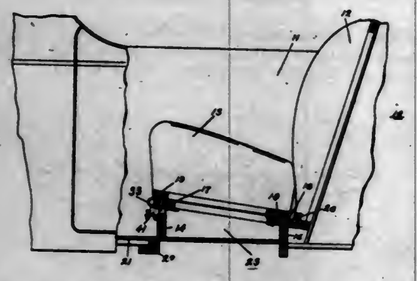
1. In apparatus for folding bands, the combination of a band-supporting drum, and a circularly-disposed roller structure movable over said drum to fold the band material upon itself.

1,755,934. ELECTRICAL APPARATUS. JOHN HEREWARD REYNER, Boreham Wood, and ARTHUR HERBERT CURTIS, Bedford, England. Filed Apr. 5, 1929, Serial No. 352,874, and in Great Britain Apr. 8, 1928. 1 Claim. (Cl. 250—16.)



In a radio set, the combination of a non-conducting plate provided with a series of holes; metallic eyelets about said holes; and electrical connections attached to said plate by said eyelets.

1,755,935. LOCK FOR MOTOR VEHICLES. EDWARD F. ROBERTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 5, 1925. Serial No. 13,045. 3 Claims. (Cl. 70—4.)



2. In a lock mechanism, a member to be locked, a pin carried by the member to be locked, said pin having a groove, a slide movable inwardly and outwardly, a pull for the slide, said slide having a keyhole slot for coaction with the groove in the pin, a bolt movable transversley through the slide and means for locking the bolt.

1,755,936. MASSAGING DEVICE. ANDREW BURNS SHAW STANLEY, Moreland, Melbourne, Victoria, Australia. Filed Apr. 25, 1928, Serial No. 272,777, and in Australia July 21, 1927. 1 Claim. (Cl. 128—67.)



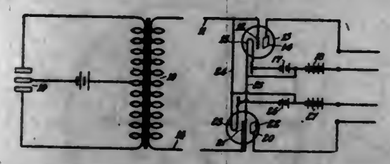
A massaging apparatus including a tubular body provided at one end with an out-turned annular flange and at the opposite end with an external bead, the juncture of the flange and inner wall of the body being rounded, said flange beyond the inner wall of the body being provided with a series of upstanding resilient projections extending throughout the full circumferential length and surface of the flange.

1,755,937. WORK CLAMPING FIXTURE FOR CRANK GRINDING MACHINES. AMOS P. STEINER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation. Original application filed Aug. 2, 1926, Serial No. 126,588. Divided and this application filed June 1, 1928. Serial No. 282,173. 4 Claims. (Cl. 51—237.)



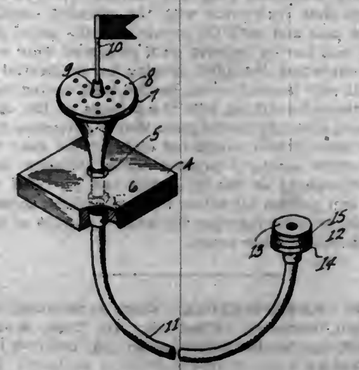
4. In a crank grinding machine, work clamping means comprising jaws pivoted to grip the work eccentric with respect to its axis of rotation, and fluid operated pistons revolvable about said axis for actuating said jaws, substantially as set forth.

1,755,938. AMPLIFICATION SYSTEM. LINCOLN THOMPSON, Naugatuck, Conn., assignor, by mesne assignments, to Wm. H. Bristol Talking Picture Corporation, Waterbury, Conn., a Corporation of Connecticut. Filed May 1, 1928. Serial No. 274,174. 7 Claims. (Cl. 179—171.)



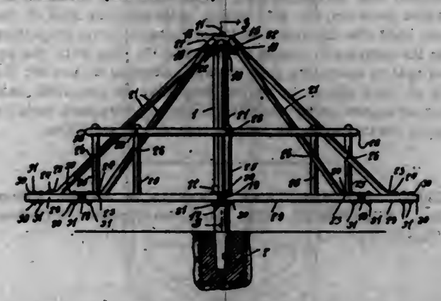
1. In an amplifying system having a thermionic valve with controlling element, and anode and cathode included in a suitably energized circuit, and an input circuit connected to the said controlling element and cathode: a unilateral device included in the said input circuit, having its voltage-current characteristic adjusted to match the grid-voltage grid-current characteristic of said thermionic valve and thereby to direct current through said unilateral device such that equal positive and negative voltages applied to the input circuit cause substantially equal flows of current respectively between said cathode and the said controlling element and through the said unilateral device.

1,755,939. DIVING APPARATUS. GEORGE UHLIG, Portland, Oreg. Filed Aug. 3, 1928. Serial No. 297,813. 1 Claim. (Cl. 9—14.)



A device of the character described comprising a floating air receiving means embodying in its construction a substantially rectangular buoyant base, a funnel-shaped receptacle centrally positioned on the top of said base, a perforated top plate connected to said receptacle and equipped with a socket for receiving therein an indicating flag, and a flexible tube connected to the bottom of said buoyant base to convey air drawn through the receptacle to a person under water.

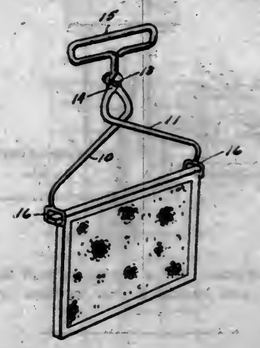
1,755,940. MERRY-GO-ROUND. OSCAR J. WATTS, Kensington, Kans. Filed Jan. 25, 1928. Serial No. 249,392. 3 Claims. (Cl. 272—33.)



1. A merry-go-round comprising a post, a sleeve and a cap rotatably mounted on the post, arms secured to and extending outwardly from the sleeve, braces connecting the cap and the arms, standards secured to the arms and braces and extending above the latter, seat boards secured to the arms, and an annular member secured to the upper ends of the standards.

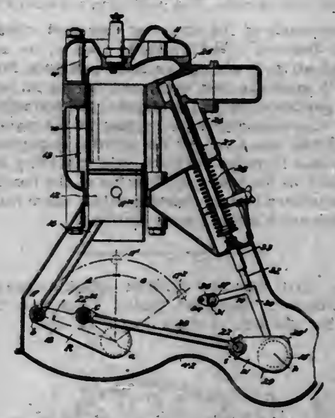
1,755,941. BEEHIVE-FRAME HOOK. LAURENCE F. WILSON, Dallas, Tex. Filed May 11, 1928. Serial No. 277,076. 1 Claim. (Cl. 6—12.)

In a device adapted to be used in connection with bee hives for handling bee hive frames formed with oppositely projecting lugs fitting within said bee hives, the combination with a pair of arms, of a handle therefor, each of said arms being of substantially Z shape and comprising a body portion and upper and lower end portions, the upper end portions of said arms being pivoted together and to said handle by the same pivot, the lower end portions of said arms being formed with rectangular loops for receiving said oppositely projecting lugs of the bee hive frame, the cross section of said arms gradually decreasing from said upper end portion throughout said body portion to said lower end portion, permitting said lower end portions and said rectangular loops to be relatively slender for insertion into said bee hive and attachment to said lugs for ready withdrawal of said frame from said bee



hive, said arms when in operative position on said hive frame having their body portions extending respectively in opposite directions and said body portions crossing each other intermediate said pivot and said loops.

1,755,942. INTERNAL-COMBUSTION ENGINE. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 14, 1924. Serial No. 706,602. 28 Claims. (Cl. 123—197.)

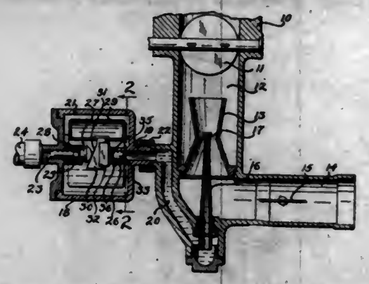


1. In an internal combustion motor of the four-cycle type in combination, a reciprocating member, a rotatably mounted shaft having a crank, means connecting the crank and member, whereby the member makes four single strokes for each complete revolution of said shaft, including a rocker comprising two arms, a pitman connecting the member and one arm, and a link connecting the crank and the other arm, the parts being arranged so that the pivotal connection of the pitman and its arm swings back and forth across a line through the center of oscillation of the rocker parallel to the reciprocating member.

1,755,943. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 19, 1925. Serial No. 57,259. 13 Claims. (Cl. 137—104.)

13. A carburetor float mechanism comprising a chamber, an inlet tube extending from one side of said chamber

towards the center thereof, an outlet tube extending from adjacent the center of said chamber, a valve for said inlet tube, a guide mounted to oscillate in said outlet tube, a



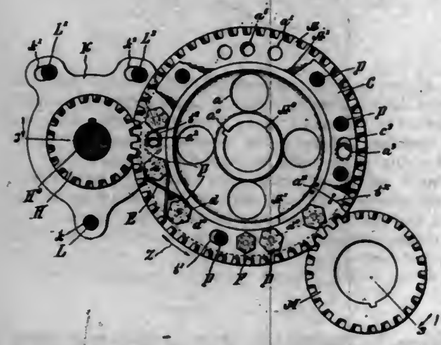
float in said chamber and a device on said float operating in said guide and having a cam surface for controlling said valve.

1,755,944. BOTTLE OR JAR. THOMAS C. ADAMS, Gastonia, N. C. Filed Oct. 28, 1927. Serial No. 229,501. 5 Claims. (Cl. 215—1.)



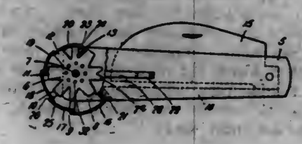
1. A receptacle of the character described, comprising a vertically disposed cylindrical body open at its upper end and closed at its lower end to form a bottom for the receptacle to normally rest upon, and having an externally threaded portion at each of said ends; and a single cap of a diameter approximately equal to that of the main body of the receptacle, and arranged for positive engagement with either of said threaded portions, said cap being arranged, when placed on the lower end portion of the receptacle, to form an auxiliary bottom therefor with a space intervening between the same and the main bottom.

1,755,945. ADJUSTABLE SILENT GEAR. ALEXANDER M. ALEXANDRESCU, Cleveland, Ohio. Filed Nov. 16, 1927. Serial No. 233,692. 1 Claim. (Cl. 74—28.)



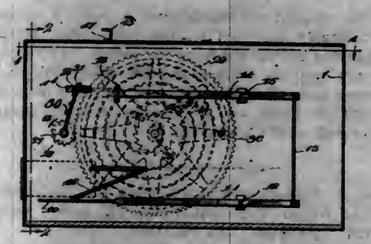
An adjustable transmission gear comprising a main gear body having a toothed periphery and provided with spaced threaded transverse openings with a tapered socket between such openings, a sound deadening ring fitted against the side of the main body gear and having openings of a size to accurately register with the threaded openings of the main gear and provided with an elongated slot registering with the socket, a toothed ring mounted for circumferential adjustment along side said main gear and against the sound deadening ring and having circumferentially elongated slots registering with the threaded openings in the main gear and with the openings in the sound deadening ring and having between such elongated slots a transversely extending threaded opening in substantial alignment with said tapered socket, headed bolts having threaded end portions for taking into the threads of the openings of the main gear and having plain shanks extending through the circumferentially elongated slots of the gear ring, a headed screw having a tapered shank threaded into the threaded opening of the ring gear and provided with a tapered end portion for fitting into the tapered socket, and means for securing together the adjacent heads of the two bolts and intermediate screw.

1,755,946. KNIFE-HANDLE. OTTO ALTENBACH, Ohligs-Solingen, Germany. Filed May 16, 1928, Serial No. 278,116, and in Great Britain Oct. 18, 1927. 3 Claims. (Cl. 7—16.)



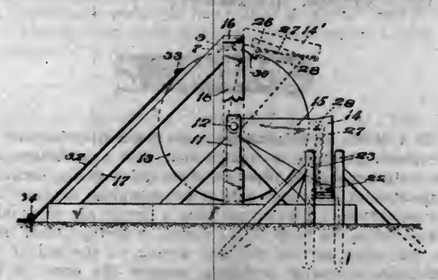
1. A device of the character described, comprising a pair of spaced side plates forming a handle, a disc mounted for rotation between the side plates, adjacent one end of the latter, said disc having a series of integral tools projecting from its periphery, means for locking the disc with the desired tool in operative position and covering means for the ends of said plates in which said disc is mounted, said covering means being mounted to swing over said ends on an axis coaxial with the axis of rotation of said disc.

1,755,947. ANIMAL TRAP. WALTER G. BAKER, Salem, Oreg. Filed Feb. 25, 1928. Serial No. 256,949. 4 Claims. (Cl. 43—75.)



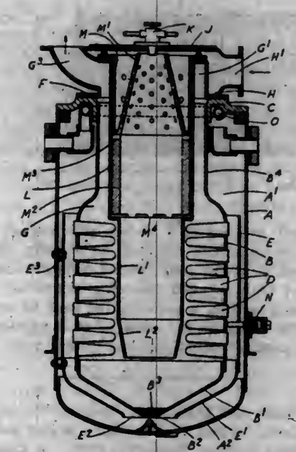
1. A trap of the class described comprising a casing having an entrance, a movable platform located within said casing, a striking element connected to be actuated by the movement of said platform, ejecting means located in rear of and operated by the striking element to receive and throw out an animal which has been struck by the striking element, and means operable by the striking element for automatically setting the trap after the ejecting means has been operated.

1,755,948. GATE-OPERATING MECHANISM. THOMAS W. BRAZELL, Pringle, S. Dak. Filed Mar. 17, 1928. Serial No. 262,349. 11 Claims. (Cl. 246—293.)



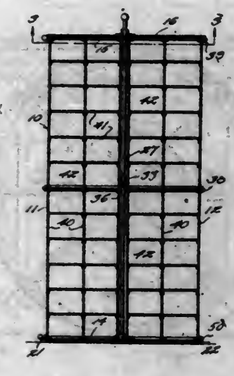
1. A gate operating mechanism comprising an actuating member adapted to be carried by a railway vehicle, a pivoted member adapted to be engaged and quickly moved by said actuating member, means for storing the energy imparted by said actuating member to said pivoted member, and means for utilizing said energy to close a gate.

1,755,949. STEAM GENERATOR AND WATER HEATER. THOMAS CLARKSON, London, England. Filed May 16, 1928, Serial No. 278,111, and in Great Britain May 30, 1927. 6 Claims. (Cl. 122—173.)



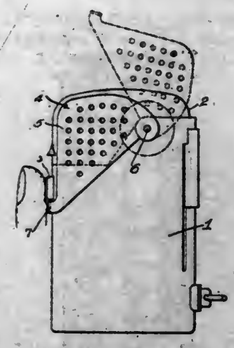
1. A water heater including in combination a cylindrical outer shell disposed vertically and having the lower end thereof closed, a tubular inner shell whose external diameter is less than the internal diameter of the outer shell and having a conical closure at its lower end, the two shells being disposed concentrically with a steam and water space between their sides and lower ends, an annular member connecting the upper ends of these shells and closing in the steam and water space, a series of thimble tubes projecting radially inwards from the wall of the inner shell into a central heating space, a downwardly directed burner mounted opposite to the open end of the inner shell and delivering hot gases into this heating space, a sheet metal baffle member comprising a tubular main part and a conical end portion with a central opening therein this baffle member being disposed in the steam and water space where it lies intermediate between the adjacent external and internal side and end surfaces of the inner and outer shells, the baffle tending to cause water to circulate downwardly between the baffle and the outer shell through the opening in the lower end of the baffle member and upwards between this member and the inner shell.

1,755,950. MAIL BAG AND SUPPORT THEREFOR. DAVIS L. DOBSON, Wilmington, and PERRY J. DOBSON, Kenansville, N. C. Filed Nov. 2, 1927. Serial No. 230,604. 3 Claims. (Cl. 150—14.)



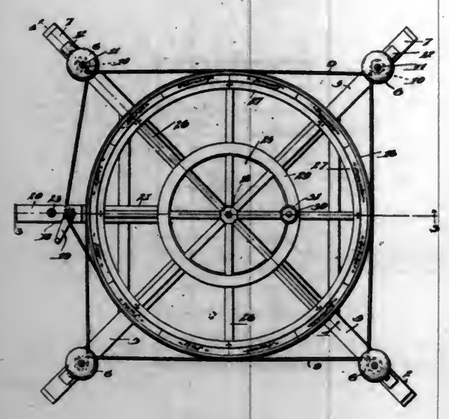
1. A support for a mail bag comprising a base member having ears thereon and a central socket, loops adjacent the bottom of said bag, rods adapted to extend through said ears and said loops to connect the base member to said bottom, a rod secured in said central socket and extending vertically upward, a cover for said bag slidably adjustable on said rod, means for holding said cover in adjusted position, and means for attaching said cover to said bag.

1,755,951. PIVOTAL WIND SCREEN FOR PYROPHORE CIGAR LIGHTERS. ARTHUR DUBSKY, Vienna, Austria. Filed Feb. 15, 1928, Serial No. 254,586, and in Austria Feb. 15, 1927. 2 Claims. (Cl. 67—7.1.)



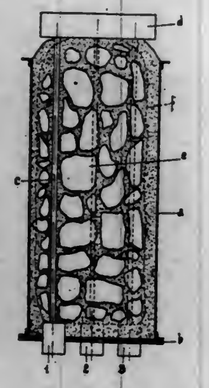
1. A device of the character described including, in combination, a casing, a pintle traversing the upper part of the casing, a spring cover for the casing having pivotal movement about the pintle, a push button device projecting slightly outward from the front of the casing near its upper end for controlling the retention of the cover in a closed position, a windshield including spaced perforated side cheeks positioned on opposite sides of the casing and cover and having pivotal movement on the ends of the pintle, and a transversely extending rib joining the lower ends of the cheeks and normally positioned beneath and retained in such position by the projecting portion of the push button device.

1,755,952. DEMONSTRATION DEVICE. CHARLIE GANT, Akron, Ala. Filed June 11, 1928. Serial No. 284,637. 4 Claims. (Cl. 35—3.)



1. A device of the character described comprising a framework, a plurality of spheres journaled upon the framework, a wheel revoluble upon the framework, a luminary carried off-center by the wheel, and means for driving the wheel and spheres in unison so that the luminary travels on a prescribed orbit in respect to the spheres.

1,755,953. MANUFACTURE OF TRANSPARENT FUSED PURE SILICA. HENRI GEORGE, Paris, France, assignor to Societe Quartz & Silice, Paris, France, a Corporation of France. Filed Mar. 9, 1928, Serial No. 260,455, and in France Mar. 23, 1927. 2 Claims. (Cl. 49—78.1.)



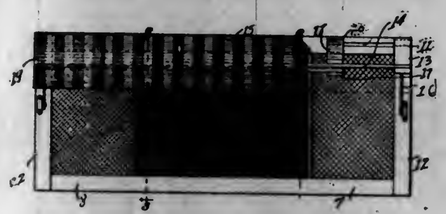
1. A process for the manufacture of transparent, fused, pure silica, consisting in carefully packing a mass of silicious sand around as large blocks as possible of quartzites, said blocks having a high chemical purity, small isometric crystalline elements close packed without any cement and without any occluded gases, in melting said blocks and siliceous sand, and after cooling, in dividing up the composite ingot obtained along the planes containing the flaws or bubbles arising from local impurities, for the purpose described.

1,755,954. PARACHUTE. MANUEL GARCÍA GÜEDE and JACOBO CUTIN, Tucuman, Argentina. Filed Nov. 17, 1927, Serial No. 234,012, and in Argentina Oct. 5, 1927. 3 Claims. (Cl. 244—21.)



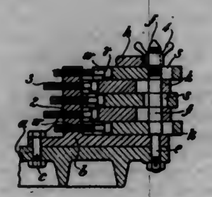
3. A device for releasably supporting a parachute on an aeroplane including in combination with a parachute and its main supporting rope, an open ended casing rockably supported on the under part of the aeroplane for receiving the parachute in a folded position, a closure cap detachably connected to the front of the casing, a spring armed clasp on the inner part of the cap, a ring on the top of the parachute normally arranged between the arms of the spring clasp whereby the parachute is detachably connected to the cap, and releasable means traversing the other end of the casing and engaged with the parachute and adapted to normally retain the parachute and its ropes within the casing and adapted to be released by a pull exerted when the aviator falls.

1,755,955. COMBINED AWNING AND SCREEN. SERPOOHIE HAGOPIAN, San Francisco, Calif. Filed Nov. 25, 1927. Serial No. 235,713. 1 Claim. (Cl. 156—38.)



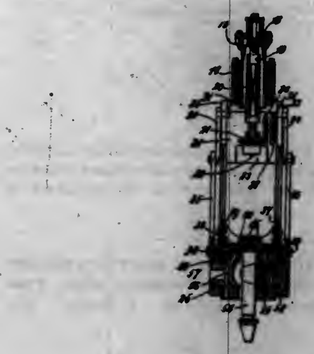
A combined awning and screen comprising a pair of slidably connected screen sections, an awning construction for said screen sections, said awning construction comprising a pair of frames, each hingedly connected to its respective hinged section, a covering for each of said frames, and collapsible brackets for each of said awning sections for connecting said awning sections to said screen sections.

1,755,956. CAM MECHANISM. SYDNEY HUNT, Birmingham, England. Filed Jan. 3, 1928, Serial No. 244,356, and in Great Britain June 22, 1927. 4 Claims. (Cl. 49—14.)



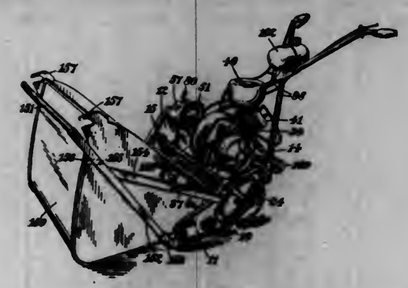
1. In a rotary machine for the manufacture of glass articles, the combination of a fixed central column, a framework carrying glass article forming units rotatable about the said central column, a plurality of vertical guides at the top of the column, slices constituting stepped cam sections and adapted to be slidden radially between said guides, each step of said cam being adapted to cooperate with a follower actuating some device in connection with one of the glass article forming units and each step being composed of any required number of slices the outer peripheries of which constitute the contour of the cam, screw means cooperating with a fixed part at the top of the column for mechanically protruding or retracting any slice radially, said screw means being operable from the top of the column while the machine is in motion, and means for locking said slices in their adjusted positions for the purposes set forth.

1,755,957. MACHINE FOR THE MANUFACTURE OF HOLLOW-BLOWN GLASS ARTICLES. SYDNEY HUNT, Birmingham, England. Filed Jan. 19, 1928. Serial No. 247,851. 20 Claims. (Cl. 49—5.)



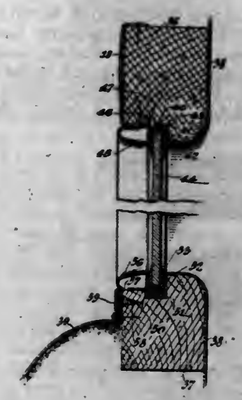
1. In a machine for the manufacture of hollow blown glass articles of the type comprising a combined open suction and blowing head and a cover adapted to be applied to the opening in the head, the said cover carrying at least one plug for the formation of the preliminary blow opening in a parison; a construction including a rotary valve located between the opening in the head and the neck mould, the said valve being so arranged that in one position it allows the plug to co-operate with the neck mould and the suction to be effective and in another position, when the plug and cover are withdrawn, closes the head to the outside and allows the blowing air to be effective.

1,755,958. POWER-DRIVEN LAWN MOWER. ARTHUR ERNEST JERRAM, Oadby, England. Original application filed Mar. 23, 1927, Serial No. 177,791, and in Great Britain Apr. 1, 1926. Divided and this application filed Jan. 20, 1928. Serial No. 248,196. 9 Claims. (Cl. 56—26.)



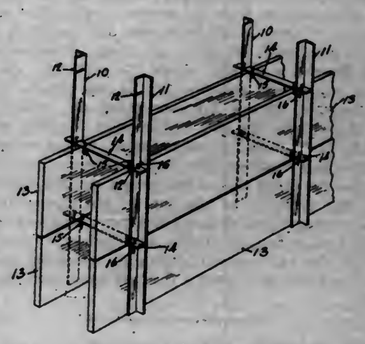
1. In a power-unit-driven lawn-mower, the combination of a frame, a rotary cutter journalled therein, a power-unit that has a driving shaft and is withdrawably mounted on the frame, transmission means comprising a "fixed-centre" driven shaft for driving the rotary cutter, quick-release clamping means for securing the power-unit on the frame, guide means for controlling the motion of withdrawal and replacement of the power-unit out of and into its driving position on the frame in a direction parallel with said driven shaft, and a readily separable driving connection that operatively connects said driving and driven shafts in a line and is separable by the controlled motion of withdrawal of the power-unit.

1,755,959. MOTOR VEHICLE. ARCHER L. KNAPP, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 12, 1925. Serial No. 61,884. 6 Claims. (Cl. 296—44.)



1. The combination in a motor vehicle body of a frame defining a window opening, channel members on said frame in the plane of the opening, a window glass mounted in said channel members, moulding adapted to position said channel members on said frame, a flange on said moulding engaging a slot in the frame for securing the moulding in position on said frame.

1,755,960. CONCRETE-FORM HOLDER. CLIFFORD J. KOHLER, Wauwatosa, Wis. Filed Dec. 15, 1927. Serial No. 240,090. 5 Claims. (Cl. 25—131.)



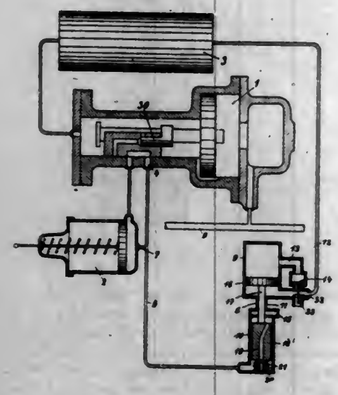
3. A form holder for concrete walls comprising a pair of angle irons, one flange of each of which is provided with open-end slits spaced apart in the length of the angle iron, a tie bar formed as a metallic strip entered in opposite slits in the angle irons, the said tie bars being provided at their ends with perforations for the reception of nails or pins to maintain the angle irons in spaced relation and hold the forms in engagement with the opposed angle irons.

1,755,961. RECORD OR INDEX CARD. DANIEL W. B. KURTZ, Jr., Columbia, Mo. Filed Mar. 27, 1928. Serial No. 265,090. 2 Claims. (Cl. 129—16.7.)



2. In a card index, a series of record cards having rearwardly beveled edges for easy accessibility and quick handling.

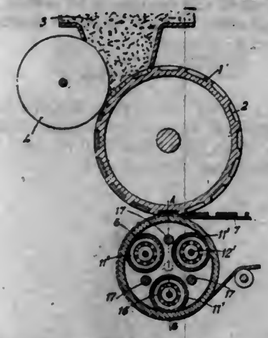
1,755,962. RELEASE VALVE FOR SINGLE-CHAMBER AIR-PRESSURE BRAKES. RICHARD LUDWIG LEUCHTER, Weidlingau-Hadersdorf, Austria, assignor to Gebrüder Hardy Maschinenfabrik und Giesserei A. G., Vienna, Austria. Filed July 21, 1928, Serial No. 294,529, and in Austria Aug. 22, 1927. 4 Claims. (Cl. 303—68.)



1. In a release valve for single chamber air pressure brakes, in combination with an air brake system including a source of air under pressure, a brake cylinder, and a control valve; a release valve, proper, including two axially alined chambers, tubular means connecting the chambers, a piston working in each chamber between the ends thereof, means connecting the pistons for movement in unison and working through said connecting means for said chambers, a pipe leading from the source of air under pressure to one end of one of said chambers and having a branch communicating with the other end of said chamber, a valve in said branch normally closed to maintain air under pressure in the said chamber at the end remote from the other chamber, means for admitting air under atmospheric pressure to the end of the other chamber which is adjacent the first mentioned chamber, means establishing communication between the brake cylinder, the control valve, and the other end of the second mentioned chamber, in the open position of the control valve, the piston in the second mentioned chamber having a passageway therethrough, and means for closing said passageway when the piston in the said second mentioned chamber is at the limit of its movement toward the last mentioned end of the chamber.

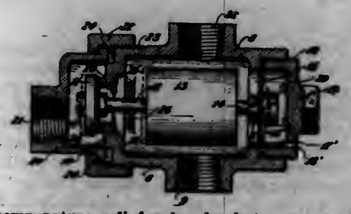
1,755,963. DOUGH-MOLDING MACHINE. RENÉ MALE, Arcueil, France. Filed May 24, 1928, Serial No. 280,360, and in France Sept. 26, 1927. 3 Claims. (Cl. 107—10.)

1. In a dough-working machine including a rotary working roller having recesses therein, and an endless belt cooperating therewith, the combination with an apparatus for detaching portions of the dough from the recesses of the rotary working roller onto said endless conveyor belt, comprising a deformable cylinder coacting with that part of the endless conveyor belt which passes under the rotary working roller, the said deformable cylinder consisting of a plurality of relatively thin resilient metal rings arranged side by side in contacting relation and each capable of radial deformation, means for supporting the said



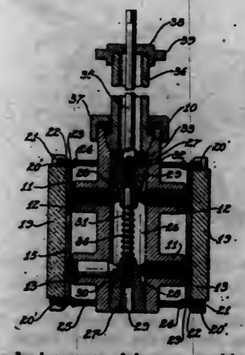
ring, and means for adjusting the last-mentioned supporting means so that the said rings force the endless conveyor belt into engagement, the lower part of the periphery of the working roller.

1,755,964. AUTOMATIC TEMPERATURE-RELIEF VALVE. THOMAS E. MORRIS, Longmeadow, Mass. Filed Dec. 20, 1927. Serial No. 241,414. 7 Claims. (Cl. 137—53.)



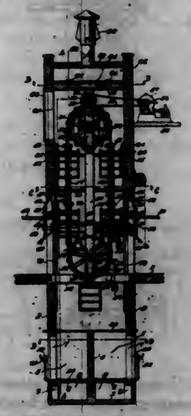
6. A temperature relief valve for hot water tanks comprising a casing member having an inlet and a discharge opening, a valve for closing the discharge opening, a diaphragm and thermostat connected to the valve, means for limiting the movement of the diaphragm by the pressure in the tank, said limiting means permitting the thermostat to operate at a predetermined temperature and open the said valve, as described.

1,755,965. LAPPING AND GRINDING DEVICE. JOHN W. OMEY, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 2, 1927. Serial No. 230,431. 1 Claim. (Cl. 51—184.3.)



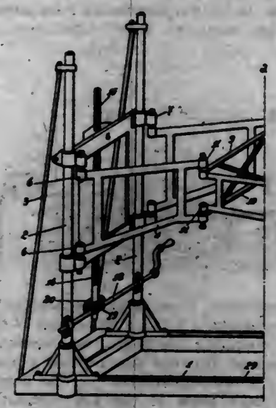
A grinding device comprising a working head having central and radial bores, a sleeve connected to said working head, an adjustment mechanism in the central bore of the working head, an extension shaft connected to the adjustment mechanism, said shaft extending through and beyond the sleeve and provided with means for operating the adjustment mechanism, support members mounted in the radial bores of the working head, said support members having channels therein parallel to the axis of the working head, abrading members mounted in said channels, abutments in the channels at the ends of the abrading members and means carried by the abutments whereby the support members are retained in adjusted position.

1,755,966. MEAT-CURING APPARATUS. ARTHUR E. OZOUF, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1928. Serial No. 271,777. 15 Claims. (Cl. 99—2.)



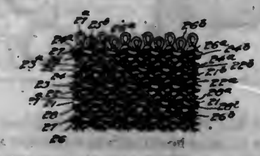
1. In combination, a treating chamber; conveying means in said treating chamber; removable carriages for said conveying means; means comprising a pair of track members pivotally supported from the walls of said chamber; transferring said carriages from a point outside of said chamber to said conveying means; and separate mechanical means for automatically transferring said carriages from said conveying means to a point outside of said chamber.

1,755,967. COPYING MACHINE. ANTONIO PAOANI, Chiari, Italy. Filed Jan. 31, 1928, Serial No. 250,924, and in Italy Oct. 22, 1927. 3 Claims. (Cl. 90—13.8.)



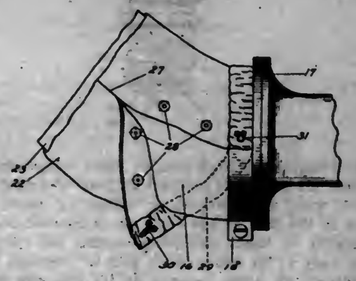
1. A machine for cutting and carving, including a base, a model and work supporting bench adjustable on said base, columns supported on said base, a pantographic support mounted for vertical slidable movement on said columns, a tool carrying frame mounted upon the pantographic support and movable through an angle from a vertical to a horizontal position, and means connecting the tools carried by the frame.

1,755,968. KNITTED FABRIC. HARRY RUBENSTEIN, Brooklyn, N. Y. Filed Oct. 15, 1925. Serial No. 62,585. 1 Claim. (Cl. 66—201.)



A knitted fabric comprising a plurality of threads in corresponding courses, one knitted at alternate wales and floated at intervening wales in one course, one knitted at every wale of the second course, one knitted at intervening wales and floated at alternate wales of the third course, and one knitted at every wale of the fourth course, the second and fourth threads forming a foundation fabric beneath the staggered floats of the first and third threads, the staggered float relation permitting an equal number of loops in every wale despite the floating of a yarn of a thread which naturally would decrease the loops in a wale.

1,755,969. VACUUM CLEANER. HACHIRO SHIGYO, San Francisco, Calif. Filed Dec. 17, 1925. Serial No. 75,959. 1 Claim. (Cl. 183—51.)

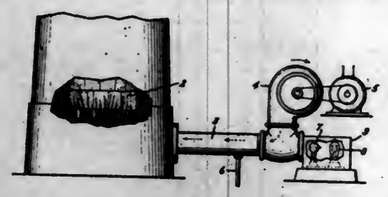


A dust confining chamber for a vacuum cleaner having the usual refuse receiving container, and comprising a generally cylindrical outer bag adapted to removably snugly surround said usual refuse receiving container of said vacuum cleaner and having a slit extending inwardly a short distance from the mouth of said outer bag and a band reinforcing said mouth, there being one character of inter-engaging means on the overlapping portions of the material of said outer bag about said slit to maintain said overlapping portions in overlapping closed relation, and a second fastening means of a different character at the ends of said band, said fastening members enabling the convenient association and disassociation of said encircling bag with said usual refuse receiving container and to prevent lateral disassociation of the portions of the material about said slit, said outer bag at the end removed from its mouth being provided with a centrally disposed aperture to admit the passage therethrough of, and interlocking engagement with, the fastening means intermediate said usual refuse receiving container and said vacuum cleaner.

1,755,970. PROTECTIVE DEVICE. HAROLD C. SINGLETON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1926. Serial No. 141,397. 1 Claim. (Cl. 158—42.4.)

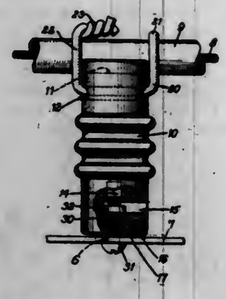
An oil burner construction comprising a fan housing having a projecting nozzle portion, an air tube secured

to said nozzle portion and opening thereinto, a combustion chamber into which the other end of said air tube opens, means for supplying fuel to said air tube, a housing secured to said nozzle portion and opening thereinto in



alignment with the ends of said air tube and a flame responsive device in said housing whereby said flame responsive device is exposed to direct radiations from the burner flame.

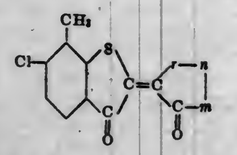
1,755,971. INSULATOR. ROBERT C. SMALLEY, Arlington, N. J., assignor to Claude Neon Lights, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 8, 1928. Serial No. 259,967. 1 Claim. (Cl. 173—28.)



An insulator for high tension cable comprising in combination, an elongated cylindrical body of glazed porcelain formed with a diametrically extending cable receiving groove in the face of one end, the cylindrical body having a plurality of beads extending around the circumference of the body at its mid-point, a pair of passages proximate the groove, an axial passage at its opposite end and a radially extending recess in communication with said passage, a pliable yielding cable securing member in the passages and adapted to be looped over a cable in the groove, a bolt in the axial passage adapted to clamp the insulator to a support, a nut in the radial recess to engage the bolt, and unglazed bosses on the face of the end opposite the cable passage.

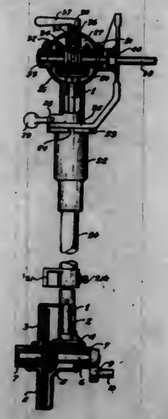
1,755,972. INDIGOID DYESTUFFS AND PROCESS OF MAKING SAME. ROBERT STOCKER, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed July 7, 1926, Serial No. 121,055, and in Switzerland July 29, 1925. 17 Claims. (Cl. 260—53.)

8. As new products of manufacture the herein described new unsymmetrical indigoid dyestuffs of the general formula



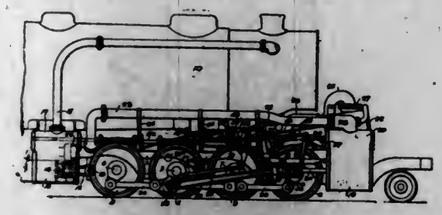
wherein r, n and m stand for atoms of which two are carbon atoms adjacent to each other, which at the same time appertain to an aromatic ring system, and of which the third is NH, S or C, which products form orange to red, violet and brown powders, which dissolve in concentrated sulfuric acid to violet to brown, green, and yellowish-green solutions, yielding with hydrosulfite and caustic soda solution greenish-yellow to yellow and violet vats which dye cotton fast orange to red, violet, brown and grey tints.

1,755,973. POWER APPLIANCE. LOUIS C. UPTON and GUSTAV B. KEIL, St. Joseph, Mich., assignors, by mesne assignments, to Nineteen Hundred Corporation, a Corporation of New York. Filed Oct. 5, 1925. Serial No. 60,412. 1 Claim. (Cl. 74—7.)



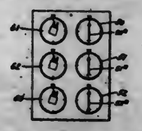
In a power appliance, a vertical sleeve having a housing adapted for housing power mechanism on the upper end of said sleeve, a shaft connected to the said power mechanism and extending through the sleeve, shaft driving means connected to the shaft at its lower end, and means on the sleeve for supporting the said sleeve and the said power mechanism and the said shaft whereby the said shaft is adapted to be flexibly coupled to the said shaft driving means, said supporting means comprising a plurality of spaced collars upon said sleeve, said collars having attaching flanges and means for adjustably securing the collars on the said sleeve.

1,755,974. LOCOMOTIVE. SAMUEL M. VAUCLAIN, Rosemont, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 23, 1926. Serial No. 83,280. 2 Claims. (Cl. 121—122.)



1. The combination in a valve mechanism for a locomotive of side frames, a valve, a valve gear of the Stephenson type for operating the valve, the mechanism of the gear being located between the frames, a rocking lever for the gear; a bearing bracket for the lever having a lug engaging both sides of the top element of a side frame; and two opposed bearing pins for the lever extending into apertures in the side lug at the opposite sides of the frame.

1,755,975. INDICATOR SYSTEM. WALDO W. WILLARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 19, 1927. Serial No. 227,323. 8 Claims. (Cl. 177—351.)



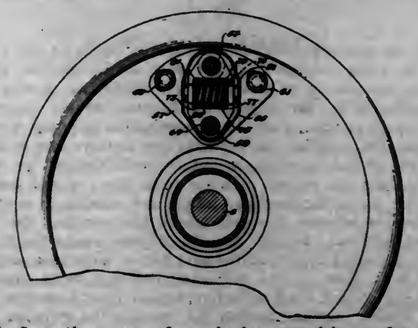
1. The combination in a system of gun fire control comprising a sighting instrument and a plurality of guns controlled thereby, of an intermediate station, an indicating instrument in said station comprising a plurality of indicating members mounted for rotation about axes spaced relatively with respect to each other, means for operating said members in accordance with the relative movements of said sighting instrument and said guns respectively whereby said members are returned to zero positions when the guns and said sighting instrument are directed on the same target, said indicating members being arranged to be in alinement when in zero positions.

1,755,976. ENGINE VALVE. DOLPHUS WILLIAMS, Sanger, Calif. Filed June 10, 1927. Serial No. 197,899. 1 Claim. (Cl. 123—59.)



In a device of the class described, an engine body, including cylinders, a valve casing mounted above the cylinders, the diameter of the casing gradually decreasing from one end to the other end, a tapered valve within the casing, means independent of the casing for mounting the valve and providing water circulation therethrough, means for rotating the valve, the mounting means being spaced from the casing of the valve and the engine structure and admitting the rotating means between the valve and mounting means, means imparting longitudinal thrust to the valve, for seating the latter, ports being provided between the casing and cylinders, fuel inlet means and exhaust means, the valve including ports adapted to effect successive registration, in timed relation, between the ports of the valve and the ports between the latter and the cylinders.

1,755,977. BRAKE-CAM CENTRALIZER. CLEMENTS G. BELDEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 1, 1928. Serial No. 251,188. 18 Claims. (Cl. 188—78.)



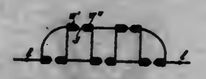
1. Operating means for a brake comprising a drum, a brake to engage the drum, said operating means comprising a brake actuating member to move said brake into engagement with said drum, means to mount said brake actuating member to permit its bodily movement, mechanism comprising a single spring to restore said brake actuating member to the position from which it was bodily moved in applying the brake.

1,755,978. FLOOR COVERING. JOHN B. CAMPBELL, Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed June 7, 1926. Serial No. 114,062. 3 Claims. (Cl. 154—49.)



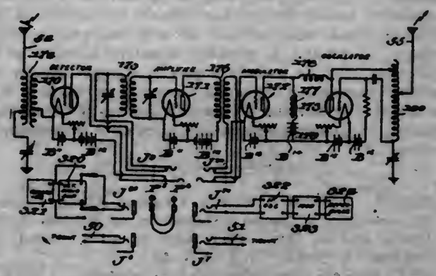
1. A floor covering comprising a ground layer of burlap, an intermediate layer of asphalt-saturated felt-base material, and a top layer of terry cloth, said layers being bound together by a binder comprising asphalt.

1,755,979. SYSTEM FOR THE PROTECTION OF ELECTRICAL INSTALLATIONS AGAINST OVERVOLTAGES. GINO CAMPOS, Milan, Italy. Filed Dec. 20, 1926, Serial No. 156,037, and in Italy Jan. 9, 1926. 3 Claims. (Cl. 175—30.)



1. In a system for the protection of electric installations against overvoltages, a conductor inserted in the line to be protected and formed with sharp bends in a direction opposed to that of the arriving current, and ohmic resistances shunted on the line and completely insulated from ground and from the other conductors of the line and acting to obstruct the passage of the ordinary line currents, but to dissipate in the form of heat the currents produced by the overvoltage; each bend having its peak connected to one end of a resistance, the other end whereof is connected to said conductor at a point further down the line, said resistances being located substantially in the direction of the arriving current.

1,755,980. RADIO BROADCAST DISTRIBUTING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed May 21, 1925, Serial No. 31,928. Renewed June 8, 1927. 4 Claims. (Cl. 250—6.)

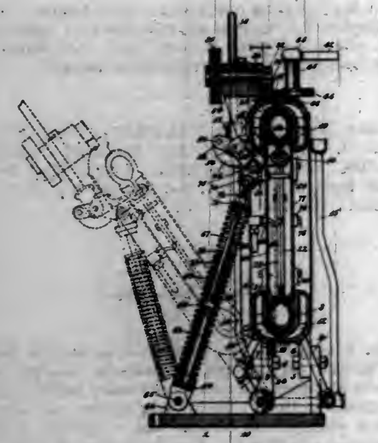


2. A radio system of intercommunication having a plurality of standardized uniform receiving stations di-

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vided into groups, all said stations being tuned to one common frequency and of sensitiveness limited to the areas covered by their respective groups, a local transmitting station for each group working on said common wave length, and means for double modulating the waves radiated from said transmitting stations as determined by primary stations using variable wave lengths, together with double demodulating means at each of said receiving stations.

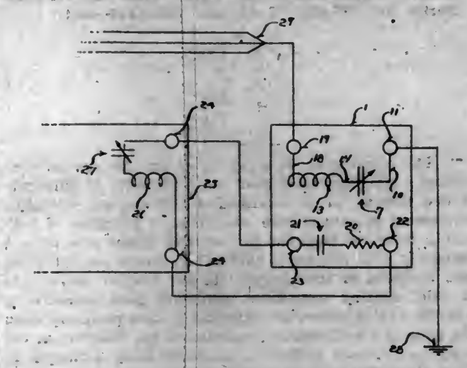
1,755,981. VULCANIZING MACHINE. PETER DE MATTIA, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 9, 1925. Serial No. 67,968. 15 Claims. (Cl. 18—38.)



15. A vulcanizing machine including, in combination, a pair of vertically disposed independently supported cooperating mold members, one of said members being independently pivotally mounted at its lower part to move toward and from the other member, a counterbalancing yielding support pivotally connected at one end to said movable member and pivotally connected at its other end forward of said movable member, an annular movable locking ring surrounding the periphery of and carried by said movable mold member and provided with peripheral notches at intervals, engaging hooks carried by the other member to cause the notches therein to register in and to be disposed with relation to said engaging hooks, a breaker comprising a movable eccentric carried by the stationary member and arranged to engage directly the movable member, a stripping device comprising a lever having at its inner end a claw and carried by the movable member, and independent means to operate said stripping device.

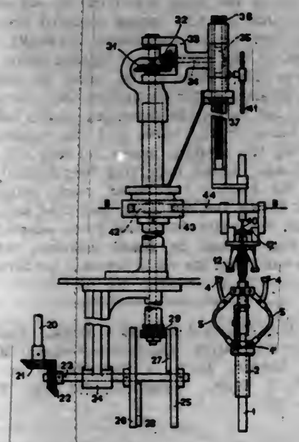
1,755,982. TUNER. MILTON MERWIN EELLS, Chicago, Ill., assignor, by mesne assignments, to William Turnor Lewis, Racine, Wis. Filed Sept 20, 1926. Serial No. 136,626. 3 Claims. (Cl. 250—40.)

1. A tuner for radio receiving sets comprising a variable condenser and an inductance coil connected together and to input terminals, a phantom circuit having a condenser and a resistance and connected to terminals, a box housing said condensers, coil, and resistance, and means on the outer side of said box for adjusting said variable con-



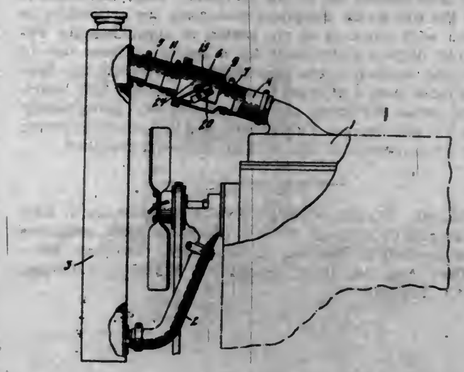
denser, one terminal of the inductance coil being a rigid support therefor and being rigidly connected to the terminal of the variable condenser.

1,755,983. METHOD AND APPARATUS OF INTRODUCING AND FUSING IN THE LEADING-IN WIRES INTO THE TUBULAR FOOT OF AN ELECTRIC GLOWLAMP. BERNHARD ERBER, Vienna, and FERDINAND GANTNER, Modling, Austria, assignors to The Firm of Gustav Ganz & Co., Vienna, Austria, a Corporation of Austria. Filed July 26, 1926, Serial No. 125,085, and in Austria July 31, 1925. 9 Claims. (Cl. 49—2.)



7. An apparatus for introducing and fusing in the leading-in wires into the tubular foot of an electric glow lamp, comprising in combination a conveying member, a gripping device for holding the tubular foot on the said conveying member, a spring for closing the gripping device, means for nipping the tubular foot, means for cutting off the nipped in wires, means for withdrawing the foot containing the nipped in wires from the gripping device on the conveying member, means for causing a relative movement between the said means for removing the finished foot and the said gripping device, means for causing a swinging motion of the said foot withdrawing means, two bars, jaws on the said bars, the bars being capable of being moved longitudinally parallel to one another by the return swinging motion for opening the gripping device by means of the said jaws and in the opposite direction for releasing the gripping device, as set forth.

1,755,984. THERMOSTAT. JESSE E. ESHBAUGH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Apr. 7, 1928. Serial No. 268,189. 11 Claims. (Cl. 236—34.)

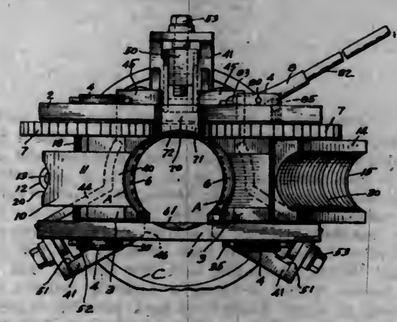


1. A casing, a swinging butterfly valve, pivotally mounted therein, a coiled thermostatic element carried by said valve with its convolutions receding from a pole perpendicular to the pivotal axis of the valve, and having one end secured to the valve and the other end secured to the casing.

1,755,985. GRANULATED PRODUCT AND PROCESS FOR MAKING SAME. HENRY C. GARDINER, Anaconda, Mont. Filed Aug. 22, 1927. Serial No. 214,791. 10 Claims. (Cl. 23—239.)

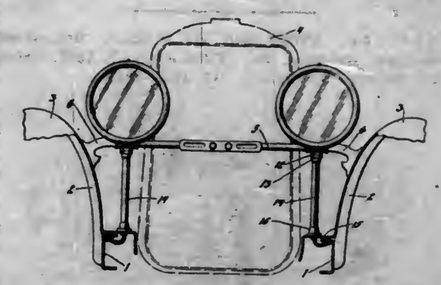
1. A process for granulating dust resulting from the metallurgical reduction of arsenic bearing ores and material which comprises mixing said dust with sulphuric acid and water, agitating and at the same time drying the mixture.

1,755,986. ROD SPIDER. HERBERT W. GOETZ, Alhambra, and RALPH C. CLARK, Los Angeles, Calif., assignors of one-third to John J. Ferlin, Los Angeles, Calif. Filed Dec. 24, 1927. Serial No. 242,450. 12 Claims. (Cl. 24—249.)



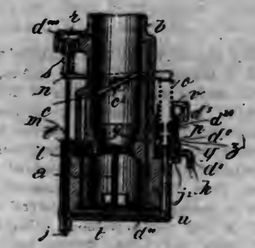
1. A rod spider comprising a support, cooperating gripping members projecting from a vertical face of the support and adapted to release or engage opposite sides of a rod for clamping the latter between the gripping members, attaching means for the spider projecting from the support, the said attaching means having a bore for the rod and being split forwardly from its bore, and a removable plate independent of said attaching means and adapted to overlie the space between the projecting gripping members, the gripping members and the split attaching means being adapted for relative lateral movement of the rod and spider to position the rod between the gripping members when the plate is removed.

1,755,987. HEAD-LAMP SUPPORT. HARRY S. GOLDEN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 4, 1929. Serial No. 330,249. 7 Claims. (Cl. 240—50.)



1. In a motor vehicle, the combination with a fender brace, a lamp having a hollow tubular portion projecting through the fender brace and a fastening nut threaded on said tubular portion to hold the lamp in position, of a conduit for concealing the conductor of energy for lighting the lamp and means for detachably connecting said conduit in alignment with said tubular portion independently of said fastening nut for the lamp, whereby the conduit may be removed without disturbing the adjustment of said lamp.

1,755,988. CARBURETOR. MAURICE GOUDARD, Neuilly sur Seine, France. Filed Aug. 21, 1925, Serial No. 51,649, and in Belgium June 6, 1925. 6 Claims. (Cl. 261—72.)



1. A carburetor including a chamber and fuel supply means including an overflow tube in said chamber, a mixing chamber, a throttle, a nozzle extending into the mixing chamber and connected to said overflow tube, and means operable by the movement of the throttle to extend the height of the overflow tube.

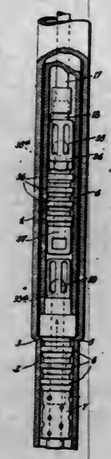
1,755,989. BRAKE CONTROL. GEORGE E. A. HALLETT, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 6, 1926. Serial No. 127,624. 9 Claims. (Cl. 188—152.)



9. A brake system for vehicles including a pedal, a rod extending therefrom and being formed in sections with a slip joint therebetween, a power unit associated with one of the sections and controlled by said slip joint, a distributor bar having pivotal connection at one end with the power unit rod section, a reaction rod pivotally connected

at its opposite ends respectively with the pedal and with the other end of said distributor bar, and brake linkage pivotally connected with the distributor bar intermediate the ends of the bar.

1,755,990. PUMP FOR OIL WELLS. ROY GEORGE HAWLEY, Bradford, Pa. Filed June 15, 1927. Serial No. 198,882. 10 Claims. (Cl. 103—181.)



1. In a pump for oil wells, the combination of a barrel provided with a plunger and pump valves, a pump rod connected with said plunger, said barrel having its upper portion provided with horizontally disposed discharge apertures, an annular compressible packer carried wholly by and surrounding the barrel immediately below said discharge apertures and having a released diameter substantially less than the interior diameter of the surrounding tube or casing, whereby the barrel may be passed into the well to any depth without bringing the packer into contact with the tube, means for retaining the packer in uncompressed condition while the barrel is being lowered into the well and means for releasing said retaining means and forcing said packer laterally into contact with the surrounding tube to prevent deposit of sand between the barrel and tube below said discharge apertures.

1,755,991. SUNSHADE FOR AUTOMOBILES. GEORGE T. JOHNSON, State Sanatorium, Md. Filed Dec. 2, 1926. Serial No. 152,169. 1 Claim. (Cl. 156—10.)

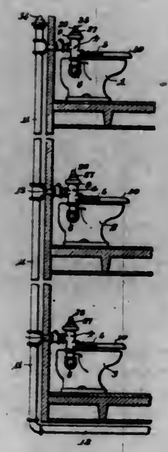


A sunshade for automobile doors and windows, comprising a curtain of flexible material having its edges reinforced by being folded on itself and fasteners passing through the curtain adjacent the corners thereof, said fasteners being sections of separable fasteners.

1,755,992. MEAT-CURING METHOD. ROBERT E. JORDAN, Baltimore, Md., assignor to The Allbright-Nell Company, Chicago, Ill., a Corporation of Illinois. Filed May 13, 1927. Serial No. 191,104. 4 Claims. (Cl. 99—9.)

1. The process of curing of minced ham, ham, bacon, and the like which comprises contacting the articles to be cured with currents of air heated to approximately 130 to 160 degrees Fahrenheit for a period of from two to two and one-half hours, and thereafter treating the articles for a period of from four to six and one-half hours, with smoke beginning at temperatures of approximately 130 to 160 degrees Fahrenheit, and gradually reducing the temperatures to 100 to 110 degrees Fahrenheit.

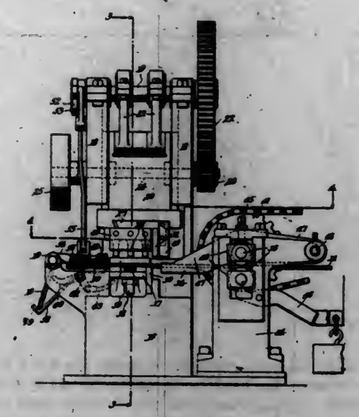
1,755,993. WATER-SUPPLY SYSTEM. EDWARD G. KELLEY and CHARLES E. ZIRKLE, Greenville, Ohio, assignors of one-half to William C. Groeniger, Columbus, Ohio. Filed Aug. 16, 1926. Serial No. 129,598. 6 Claims. (Cl. 137—78.)



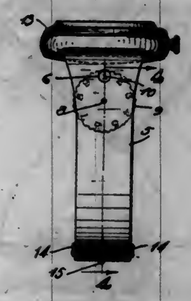
6. In combination, a water receptacle having an inlet and an outlet, said inlet for communication with a water supply pipe, a valve normally closing said inlet and shiftable to open position, and an air supply means including a shiftable element normally closing it to said receptacle and automatically moved from position for the automatic introduction of air to provide a vacuum break when said valve is shifted to open position and the outlet clogged thereby preventing back flow through said pipe, said means further including a normally inactive check shiftable to active position by back pressure to prevent outward passage of air and water through said means when said element is in a position other than normal.

1,755,994. HOT PUNCHING AND SHEARING MACHINE. JOSEPH KURKOWSKI, Carrick, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 11, 1927. Serial No. 167,461. 19 Claims. (Cl. 164—49.)

1. For the production of ribbed articles of the character described from a length of ribbed stock, relatively movable cooperating shearing means, and means for presenting the stock to the shearing means, said stock presenting means being movable relative to the cutting point to stress the stock in a manner to avoid excessive compression of the ribs adjacent the cutting point during the cutting operation and means for moving said stock presenting means.



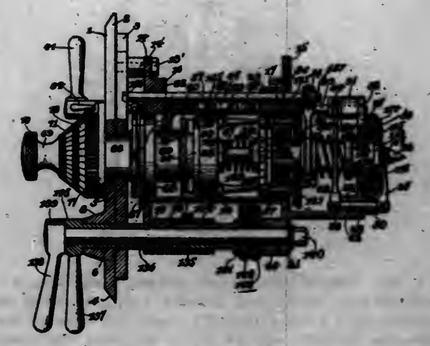
1,755,995. REGISTERING DEVICE. WILLIAM A. LAMB, Chicago, Ill. Filed July 13, 1927. Serial No. 205,498. 2 Claims. (Cl. 235—122.)



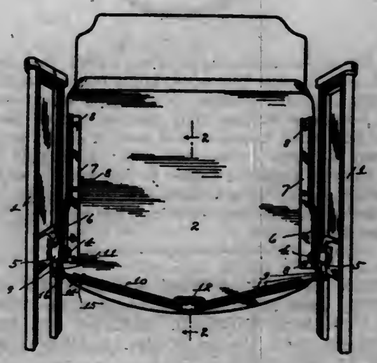
2. A registering device adapted to be carried on the wrist, and consisting of a flexible band and a pivotally attached flexible registering disk held in position by frictional contact with the band.

1,755,996. PERMUTATION LOCK. KARL LITZELBERGER, Hollis, N. Y. Filed Feb. 8, 1928. Serial No. 252,849. 13 Claims. (Cl. 70—18.)

1. A permutation lock comprising a locking bolt shifting means, a permutable locking mechanism therefor and including a slidable and rotatable spring controlled plunger device and a slidable, spring controlled locking device, said locking device engaging in said shifting means to lock it and moved to released position by said plunger device, and a permutable locking means common to said mechanism and shifting means for normally retaining them from movement.

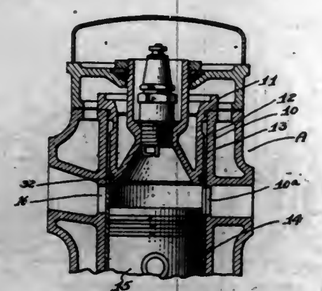


1,755,997. SEAT STRUCTURE. RALPH K. MERRILL, Grand Rapids, and FRED J. BLAKSLEE, Wyoming Township, Kent County, Mich., assignors to American Seating Company, Grand Rapids, Mich., a Corporation of New Jersey. Filed July 23, 1928. Serial No. 294,638. 2 Claims. (Cl. 155—85.)



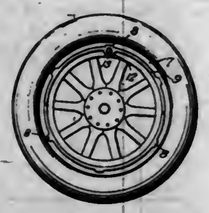
2. In a seat structure of the character described: a support comprising laterally spaced members; a seat mounted thereon swingably about a horizontal axis to and from usable position; a coiled spring urging the seat from usable position and having its ends attached to said members respectively below said axis and its middle axially-movably attached on the under side of the seat at a position rearwardly offset from said axis.

1,755,998. INTERNAL-COMBUSTION ENGINE. ANDRE J. MEYER, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Jan. 3, 1928. Serial No. 244,062. 19 Claims. (Cl. 123—81.)



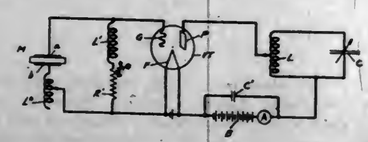
1. An internal combustion engine comprising a cylinder having intake and exhaust ports, a piston reciprocating within the cylinder, a single sleeve valve coaxial with the cylinder and having a combined reciprocating and oscillating movement with respect to the sleeve and cylinder axes, said sleeve having intake and exhaust ports cooperating with the respective cylinder ports, said cylinder intake port having a closing edge the ends of which are spaced longitudinally with respect to the cylinder axis.

1,755,999. TIRE-RIM-MOUNTING MEANS. CHARLES E. MICHAUD and LUCIEN LAPIERRE, Hull, Quebec, Canada. Filed July 26, 1926. Serial No. 124,920. 2 Claims. (Cl. 301—11.)



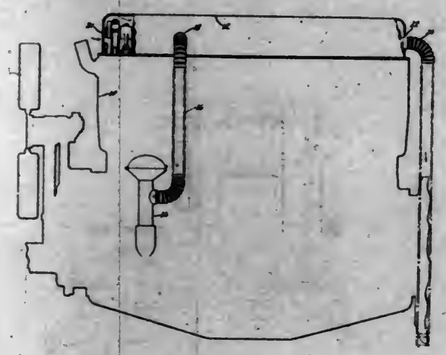
1. Means for mounting a demountable tire rim to a wheel, comprising a felly band rigidly fastened to the felly, a bodily removable portion on said felly band, consisting of a removable circular strip portion of half the width of the felly band, fingers at both ends of said strip portion, cutaway portions corresponding to the fingers in said felly band to allow the fingers to rest therein, and means comprising a lug integral with said strip portion depending therefrom and positioned to receive a bolt fastened to the felly.

1,756,000. PIEZO-ELECTRIC OSCILLATION GENERATOR. JOHN M. MILLER, Philadelphia, Pa. Filed Sept. 10, 1925. Serial No. 55,464. 18 Claims. (Cl. 250—36.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



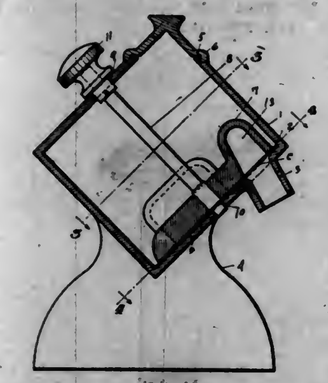
1. In an oscillation generator, a vacuum tube, a quartz crystal in circuit with said tube, and a turnable resonant circuit connected in the output circuit of the tube.

1,756,001. CRANK-CASE VENTILATION. WILLIAM H. MORSE, Oshawa, Ontario, Canada, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 6, 1927. Serial No. 196,839. 8 Claims. (Cl. 123—171.)



1. In an internal combustion motor having a crank case and overhead mechanism, a cover for said mechanism, an outlet leading from the rear end of said cover, an opening in the front end of said cover, and a conduit from said crank case to said cover.

1,756,002. AUTOMATIC SANITARY SUGAR BOWL. LOUIS NAGY, Detroit, Mich., assignor, by direct and mesne assignments, of one-half to Stephen F. Halach, Detroit, Mich. Filed Sept. 12, 1928. Serial No. 305,368. 3 Claims. (Cl. 221—108.)



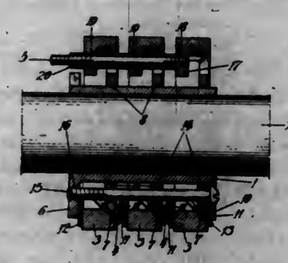
1. An automatic sanitary sugar bowl adapted for delivering sugar in measured quantities, comprising a hollow bowl casing formed with a flat bottom section therein and provided with a rigid top section across the opposite side of the bowl, an operating shaft rotatably mounted within the top and bottom section of the bowl, positioned along the center axis thereof, a measuring disk formed with one flat side mounted on said operating shaft within said bowl casing positioned with the flat disk side resting on the flat bowl bottom section and rotatable thereon with the shaft, means mounted on said shaft for causing rotations of above shaft and attached measuring disk within the bowl, said measuring disk being formed with a series of recessed chambers therein and each chamber having a rim and bottom wall opening, an outlet spout formed through the bowl bottom and opening into the bowl chamber beneath the measuring disk positioned therein to coincide with each recess chamber bottom wall opening during one position of its rotation.

1,756,003. WRENCH. ARTHUR ORLANDO NORTH, Niagara Falls, N. Y. Filed Nov. 3, 1926, Serial No. 146,007. Renewed Feb. 8, 1930. 1 Claim. (Cl. 81—125.)



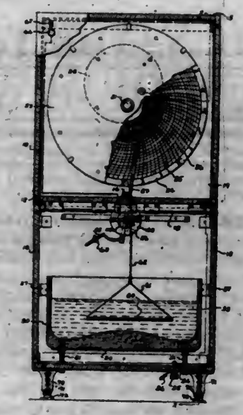
In a motor driven magazine socket wrench, a polygonal tip, a polygonal head forming a shoulder on the tip and driven by a chuck, a hollow polygonal socket of reduced size at its bottom and adapted to form a nut magazine, the reduced end of which forms a wrench socket, a pair of anti-friction balls spring seated in holes in the head to engage the socket to permit ready detachment, and a central spindle fixed in the head and having spring jaws at its bottom to guide freed nuts in the socket.

1,756,004. CURRENT COLLECTOR. JOHN M. BARR, Cleveland, Ohio, and HAROLD L. SMITH, Milwaukee, Wis., assignors to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Continuation of application Serial No. 594,081, filed Oct. 12, 1922. This application filed Apr. 22, 1929. Serial No. 357,200. 20 Claims. (Cl. 171—322.)



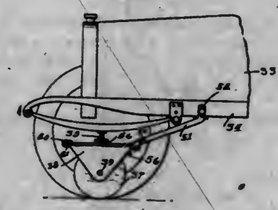
1. A current collector comprising a collector ring, and a ring support shaped to hold and support said collector ring in place by exerting radial and axial pressure thereon and to provide ventilating spaces between the same and said collector ring.

1,756,005. MEASURING INSTRUMENT. CARL GORHAM HERSHEY, El Paso, Tex., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 4, 1924. Serial No. 696,823. 3 Claims. (Cl. 234—5.5.)



1. In an electrostatic recording voltmeter, a chart, an electrostatic voltmeter having an indicator in operative relation to said chart, and means whereby the potential measured causes a spark between said indicator and chart to make a legible record.

1,756,006. EMERGENCY WHEEL FOR AUTOMOBILES. SIDNEY MARKS, New York, N. Y., assignor of one-half to Warren W. Ward, New York, N. Y. Filed Aug. 21, 1928. Serial No. 301,114. 2 Claims. (Cl. 280—150.)

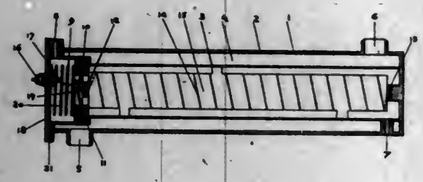


1. An emergency wheel device for vehicles, comprising a wheel rotatably mounted upon an axle, a sheath carrying said axle, an anchor member pivotally attached to said sheath, said anchor member having at one end, and formed integral therewith, means for maintaining contact between said anchor member and said sheath member, and permitting horizontal movement of one with respect to the other, substantially as described.

1,756,007. PROCESS FOR TREATING MIXTURES OF OXY SALTS OF ARSENIC, ANTIMONY, AND TIN. MELVILLE FLETCHER PERKINS, Tacoma, Wash., and CHARLES W. HANSON, Perth Amboy, and BERRY MARVEL O'HARRA, Westfield, N. J., assignors to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 20, 1927. Serial No. 162,409. 3 Claims. (Cl. 204—51.)

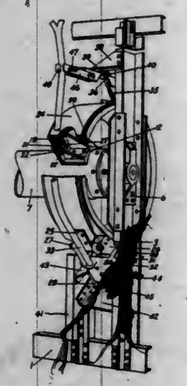
1. The process for treating mixtures of alkali oxysalts including salts of tin and arsenic in which the arsenic is present in substantial amounts relative to the tin content, which comprises dissolving the arsenic and tin salts, heating the solution, electrolyzing the hot solution to deposit substantially the entire amount of tin contained therein and then crystallizing and removing the salts of arsenic.

1,756,008. FUEL HEATER. PAUL SCPRANI, New York, N. Y., assignor of one-fifth to Martin C. Pizzaia; and one-fifth to Integrales, a Firm composed of Nicola Ariola, Lino Pizzaia, and Nick Marchese. Filed Jan. 28, 1930. Serial No. 423,976. 3 Claims. (Cl. 219—38.)



1. A fuel heating device for engines including an inner and an outer chamber, an electrical heating device in said inner chamber, means for admitting fuel to and discharging said fuel from said inner chamber, said outer chamber including an inlet member to receive exhaust gases from said engine and an outlet member to discharge said exhaust gases therefrom, an electrical circuit operative to energize said electrical heating element, means operative to open said electrical circuit when said fuel attains a predetermined temperature suitable for use of said fuel in said engine, whereby, on starting said engine, said exhaust gases passing through said outer chamber effect subsequent heating of said fuel during operation of said engine.

1,756,009. BULL-WHEEL-BRAKE STRUCTURE. RICHARD R. BLOSS, Columbus, Ohio, assignor to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed Jan. 3, 1928. Serial No. 244,121. 9 Claims. (Cl. 188—77.)

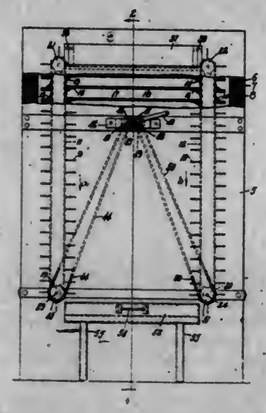


1. Bull wheel structure comprising a bull wheel shaft, a brake wheel on one end of said shaft, a brake band, spaced tie-rods for one end of said brake band, a lever connected to the other end of said brake band and operating in between said spaced tie-rods, and a latch member disposed above said brake wheel for maintaining said lever in inoperative position.

1,756,010. PLASTIC PROCESS. WILLIS A. BOUGHTON, Cambridge, Mass., assignor to Bennett Box Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 7, 1925. Serial No. 1,037. 2 Claims. (Cl. 91—68.)

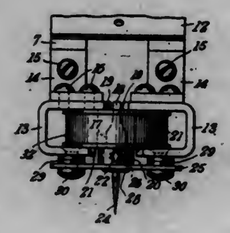
1. A method of preparing stiffener blanks for use in shoes and the like, comprising the steps of impregnating a carrier sheet with melted rosin, permitting the rosin to harden to a stiff condition, and thereafter, prior to reshaping the stiffener blank in a shoe or other article, introducing said blank into a liquid mixture consisting of 30 to 35 per cent by volume of solvent and 70 to 65 per cent of non-solvent, and capable of softening the stiffener blank without substantial dissolution during immersion of the blank in the liquid mixture for hours.

1,756,011. METHOD OF MANUFACTURING AND TREATING ASPHALT BISCUITS. ALFRED A. GLIDDEN, Watertown, and ALAN R. LUKENS, Belmont, Mass., assignors, by mesne assignments, to Hood Rubber Company, Inc., Watertown, Mass., a Corporation of Delaware. Filed June 13, 1928. Serial No. 285,138. 7 Claims. (Cl. 18—47.5.)



1. A method of manufacturing and treating asphalt biscuits which consists in heating and mixing an asphalt compound and pressing the mixture into sheet form to make a biscuit, then allowing the said biscuit to become cold and age, and then reheating it slowly and uniformly until it becomes plastic.

1,756,012. PHONOGRAPH PICK-UP. OLIVER B. PARKER, New York, N. Y., assignor to Pacent Electric Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 7, 1929. Serial No. 330,764. 15 Claims. (Cl. 179—100.41.)



1. An electric phonograph pickup, comprising a U-type magnet, means for supporting the same substantially horizontal and close above a record surface, a short straight armature bar, means for yieldingly mounting the same inclined downwardly and away from the ends of the magnet, a record engaging stylus at the lower end of said armature bar and a coil about the upper portion of said armature bar.

Patents Nos. 1,756,013 to 1,756,929

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Total	1,223		

Printed Copies of Patents

A printed copy of the complete specification and drawings of any patent published herein can be obtained for ten cents.

Adjudicated Patents

(C. C. A. Mich.) Inwood and Lavenberg patent, No. 1,128,145, for means for making box blanks, claim 25 *Held* valid and infringed. *Wirebounds Patents Co.* v. *Saranac Automatic Mach. Corporation*, 37 F. (2d) 830.

(C. C. A. and D. C. Pa.) Malloch patent, No. 1,249,981, for silent railway crossing, claim 1 *Held* not infringed. *Malloch* v. *Philadelphia Rapid Transit Co.*, 37 F. (2d) 896 and 899.

(D. C. Ill.) Angier patent, No. 1,282,167, for package *Held* invalid. *Angier* v. *Nehring Electrical Works*, 37 F. (2d) 953.

(C. C. A. Md.) Moore patent, No. 1,502,050, for ventilating means for the receivers of belt conveyors, claims 1–7 *Held* invalid. *Moore* v. *Baltimore & O. R. Co.*, 37 F. (2d) 884.

New Examining Division

(ORDER No. 3,146)

U. S. PATENT OFFICE, *Washington, Apr. 15, 1930.*

It is hereby directed that new examining Division 63 be established in room 300, A. H. Winkelstein, Examiner in charge, and that the following classes be transferred thereto:

Class 8, Bleaching and Dyeing, from Division 6.

Class 52, Explosive, Pyrotechnic, and Match Compositions, from Division 6.

Class 87, Oils, Fats, and Glue, from Division 59.

Class 99, Preserving, from Division 2.

Class 127, Sugar, Starch, and Carbohydrates, from Division 6.

THOMAS E. ROBERTSON,
Commissioner.

NOTICE—CHANGES IN PATENT OFFICE FEES—EFFECTIVE JUNE 1, 1930

The act of Congress approved April 11, 1930, amends section 4934, Revised Statutes, so as to provide that, except in design cases, the fee for filing each original application for patent and the fee for issuing each original patent shall each be $25.00 and $1.00 for each claim in excess of 20, instead of the present fees of $20.00 and $1.00 for each claim in excess of 20; and amends the trade-mark acts of 1905 and 1920 so as to provide that the fee for registration of trade-marks and for renewals of registrations shall be $15.00 instead of the present fee of $10.00.

The act also provides that the fees for recording assignments or other papers shall be, if the paper does not exceed six pages, $3.00; for each additional two pages or less $1.00, and for each additional patent or application where more than one is included or involved in such writing 50 cents additional.

These new fees are effective on and after June 1, 1930.

Applications for patents, except in design cases, received on and after June 1, 1930, with only the present $20.00 fee will not be entered but will be given a filing date and serial number as of the day the full fee of $25.00 and the additional fee of $1.00 for each claim in excess of 20 is received by the Patent Office.

Condition of Applications Under Examination at Close of Business April 18, 1930.

(Total number of applications awaiting action, excluding Trade-Mark Division, 116,742; Trade-Mark Division, 1,587. Oldest new case, June 1, 1929; oldest amended, June 5, 1929. The dates given are 1929 except where † indicates 1930.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action: New	Oldest new application awaiting office action: Amended	No. of applications awaiting action
112	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements.	Aug. 1	Sept. 14	1,316
126	2. HADEN, C. F., Bee Culture; Dairy; Presses; Tobacco	July 15	July 23	2,031
331	3. LINDSEY, A., Heating: Metal Founding; Metallurgy; Metal Treatment	July 25	Nov. 29	1,529
234	4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating	Oct. 1	Oct. 1	1,224
108*	5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters	July 25	July 25	1,498
318	6. LEWERS, A. M., Carbon Chemistry	June 14	June 15	2,535
106	7. JARBOE, C. G., Optics; Photography	July 3	July 5	2,570
133	8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets	July 3	Oct. 21	1,648
221	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Oct. 2	Oct. 1	1,431
118	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops	July 18	Aug. 23	1,808
148*	11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus.	Oct. 19	Nov. 1	1,022
380	12. PIERCE, P. P., Machine Elements	Sept. 10	Sept. 12	1,482
154*	13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	July 12	July 15	1,654
102*	14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes.	July 16	July 29	1,457
220	15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics	July 1	July 1	3,027
242*	16. SPENCER, C. J., Telegraphy; Telephony	Aug. 3	Sept. 30	1,262
307	17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	July 1	July 16	1,636
229	18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Aug. 29	Aug. 26	1,496
236	19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces.	July 10	July 16	2,176
179	20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking.	Aug. 19	Sept. 11	1,624
212	21. THOMPSON, T. J., Textiles; Cloth Finishing	Aug. 28	Nov. 4	910
244*	22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion.	Sept. 4	Oct. 5	1,678
217	23. GROESBECK, W. D., Coin Handling; Recorders; Registers	June 29	July 1	1,207
147*	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	June 24	July 10	1,303
202*	25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Aug. 16	Sept. 5	1,585
228*	26. HODGES, J. S., Electricity, Generation; Motive Power	July 13	July 27	1,229
214	27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	July 1	July 13	1,643
225	28. BENSON, A. R., Internal-Combustion Engines	Aug. 14	Aug. 14	2,110
160*	29. MORRIS, B. N., Woodworking; Tools; Compound Tools	Oct. 18	Oct. 31	760
248	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	July 24	Dec. 2	1,247
312	31. HOLMES, W. N., Distillation; Gas, Heating and Illuminating; Mineral Oils	July 30	Aug. 2	2,581
249	32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation	Sept. 7	Sept. 10	1,789
152	33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings.	June 19	June 19	2,629
304	34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders.	Aug. 12	Aug. 26	1,183
116*	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet	Oct. 2	Oct. 1	1,840
105	36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring.	Aug. 3	Sept. 3	2,333
224*	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	July 24	July 29	2,119
145	38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells.	July 1	July 3	2,100
220	39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	June 23	June 25	1,996
262*	40. OBERLIN, J. J., Bottles and Jars; Receptacles	June 21	Sept. 28	3,176
125	41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances.	Aug. 31	Sept. 3	1,423
223*	42. CUTTING, H. O., Electric Signaling	Aug. 30	Sept. 16	1,627
124*	43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members.	June 22	June 22	2,281
253	44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration	June 18	June 19	2,336
379	45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices	July 13	July 25	2,531
233	46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers.	Aug. 15	Sept. 3	1,667
264	47. BARKER, H., Clutches and Power Stops; Brakes and Motors	July 2	Aug. 2	2,589
212*	48. ROEPKE, O. B., Electricity, General Applications	July 16	July 19	1,377
239	49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification.	Oct. 10	Oct. 18	1,177
322	50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating	July 11	July 15	2,929
240*	51. BACKUS, C. D., Radiant Energy, Wave Transmission	July 22	July 22	2,370
144	52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings.	Sept. 3	Sept. 3	2,667
201*	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens.	Oct. 29	Oct. 28	1,331
241	54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes	July 5	July 9	2,819
102	55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery	†Jan. 14	†Jan. 14	430
	{Designs	†Mar. 22	†Apr. 7	354
309	56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation	July 12	July 16	2,534
257*	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks.	July 5	July 23	1,256
270*	58. DOWELL, E. F., Abrading; Typewriting	June 1	June 5	1,527
315	59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Cement and Lime; Hides, Skins, and Leather; Fuel.	June 24	June 24	2,317
213*	60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings.	July 20	July 22	2,447
269	61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus.	June 26	June 28	2,656
245*	62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers.	July 18	July 18	2,815
300	63. WINKELSTEIN, A. B., Bleaching and Dyeing; Explosive, Pyrotechnic, and Match Compositions; Oils, Fats, and Glue; Preserving; Sugar, Starch, and Carbohydrates.	June 21	June 21	1,438
163	Trade-Marks, Labels, and Prints: F. A. RICHMOND.—{Trade-Marks	†Mar. 19	†Apr. 7	1,424
	{Labels and Prints	†Mar. 19	†Apr. 4	163

* Refers to room numbers in the annex.

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

GOWEN AND BRADFORD *v.* ARNOLD

No. 2,146. Decided January 27 1930

[37 F. (2d) 430]

INTERFERENCE—PRIORITY—RIGHT TO MAKE THE CLAIM—CAN NOT BE RAISED ON APPEAL UNLESS RAISED BELOW.

Where the junior party made no contention in the Patent Office that the senior party had no right to make the claims *Held* that that question will not be reviewed by the court on appeal from the award of priority.

APPEAL from the Patent Office. Affirmed.

Mr. S. E. Darby, Mr. C. M. Thomas, and *Mr. F. D. Thomas* for Gowen and Bradford.

Mr. John G. Roberts and *Mr. Irving McDonald* for Arnold.

HATFIELD, *J.:*

This is an appeal in an interference proceeding from the decision of the Board of Appeals affirming the decision of the Examiner of Interferences awarding priority of invention to appellee.

The invention in issue relates to certain structural improvements in vacuum tubes or audions.

The counts in issue read as follows:

1. An electron discharge device comprising an evacuated vessel, a press within said vessel, an anode and a cathode above said press, the axis of said electrodes being parallel to the axis of said press, and a metallic frame connected to said press and supporting said electrodes, said frame being in contact with said anode.

2. An electron discharge device comprising an evacuated vessel, a press within said vessel, an anode and a cathode above said press and parallel thereto, and a metallic frame connected to said press and supporting said electrodes, substantially all of one side of said anode being subjected to electron bombardment from said cathode.

3. An electron discharge device comprising an evacuated vessel, a cathode, an anode, a press, said anode and cathode having their axes substantially parallel to said press, a support for said cathode comprising a metallic frame arising from said press, substantially all of one surface of said anode being subjected to electron bombardment.

The questions of law involved herein are the same as those presented to the court in the following cases decided concurrently herewith: *Robert F. Gowen* v. *William F. Hendry*, Appeal No. 2,216, Interference No. 30,618, and *Robert F. Gowen* and *James L. Bradford* v. *Harold D. Arnold* and *William C. White*, Appeal No. 2,147. In those cases it was held that the jurisdiction of this court in interference cases did not extend to questions involving the patentability of alleged inventions, but was limited to the question of priority of invention and matters ancillary thereto.

In addition to the questions of law referred to, counsel for appellants contends that Arnold's application does not disclose the subject matter of the issue, and that, accordingly, he has no right to make the claims. This contention was not made before the tribunals below, and, therefore, will not be considered here.

It appears from the record that Arnold is the prior inventor of the subject matter of the issue. The decision of the Board of Appeals is therefore affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

GOWEN AND BRADFORD *v.* ARNOLD AND WHITE

No. 2,147. Decided January 27, 1930

[37 F. (2d) 428]

INTERFERENCE—PRIORITY.

Where no question was raised on behalf of the junior parties except that the assignee of the senior party was estopped to take a patent on his application, which question was not reviewable on appeal, *Held* that priority was properly awarded to the senior party.

APPEAL from the Patent Office. Affirmed.

Mr. S. E. Darby, Mr. C. M. Thomas, and *Mr. F. D. Thomas* for Gowen and Bradford.

Mr. J. G. Roberts and *Mr. Irving McDonald* for Arnold.

Mr. C. E. Tullar and *Mr. H. E. Dunham* for White.

HATFIELD, *J.:*

This is an appeal in an interference proceeding from the decision of the Board of Appeals affirming the decision of the Examiner of Interferences awarding priority of invention to Harold D. Arnold.

The alleged invention relates to certain structural improvements in vacuum tubes or audions.

The count in issue reads as follows:

An electron discharge device comprising a stem, cathode, anode and grid electrodes having their longitudinal axes substantially parallel to said stem, a support for said electrodes comprising a plurality of metallic upright members arising from said stem, and lead in wires through said stem for said electrodes.

It appears from the record that the application of Knoop and Cioffi, No. 296,331, filed on May 12, 1919, matured into Patent No. 1,456,505 on May 29, 1923.

The application of Gowen and Bradford was filed on April 3, 1919. The count in issue—claim 17 in the patent issued to Knoop and Cioffi—was copied by Gowen and Bradford on July 11, 1923. The interference as originally declared was, therefore, between Knoop and Cioffi, and Gowen and Bradford. Knoop and Cioffi were the junior parties.

Knoop and Cioffi filed two motions: one, to dissolve the interference on the ground that Gowen and Bradford had no right to make the claim in issue, and the other, to reform the interference by adding the application of Arnold.

Both motions were overruled by the Law Examiner. Thereupon, Knoop and Cioffi appealed to the Examiners in Chief from the decision of the Law Examiner refusing to reform the interference by adding the application of Arnold. The Examiners in Chief reversed the decision of the Law Examiner and, on appeal by Gowen and Bradford, the decision of the Examiners in Chief was affirmed by

the Commissioner of Patents. Thereupon, the interference was reformed to include Arnold's application—a division of his application filed November 2, 1915, and also the application—a division of an application filed October 28, 1920—of William C. White. Arnold was the senior party.

It appears from their preliminary statements that the junior parties conceived the invention subsequent to the filing date of Arnold's application. Accordingly, on December 6, 1926, the junior parties to the interference having failed to show any reason why judgment should not be entered on the record in favor of the senior party, Arnold, the Examiner of Interferences awarded priority of invention to Arnold. On appeals by Gowen and Bradford, and by White, the decision of the Examiner of Interferences was affirmed by the Board of Appeals.

It appears from the record that The Western Electric Company is the owner of both the Arnold application and the Knoop and Cioffi patent, and that The De Forest Radio Company is the owner of the Gowen and Bradford application.

The sole issue in the case involves a question of law.

It is claimed by counsel for appellants that the tribunals of the Patent Office erred in permitting the application of Arnold to be included in the interference. This contention rests upon the proposition that the common assignee—The Western Electric Company—is estopped from claiming a patent for the invention in issue on the application of Arnold, in view of the fact that the invention has been patented to The Western Electric Company's assignors, Knoop and Cioffi. This precise issue was considered and decided by this court in the case of *Robert F. Gowen* v. *William F. Hendry* and *Robert W. King*, appeal No. 2,216, interference No. 50,818, decided concurrently herewith. [— O. G. —.]

It was there held that the jurisdiction of this court in interference cases did not extend to questions involving the patentability of alleged inventions, but was limited to the question of priority of invention and matters ancillary thereto.

It appears from the record that Arnold's filing date is prior to the dates for conception alleged in the preliminary statements of the junior parties to the interference. The decision of the Board of Appeals is, therefore, affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

GOWEN *v.* HENDRY AND KING

No. 2,216. Decided January 27, 1930

[37 F. (2d) 426]

1. INTERFERENCE — PRIORITY — APPEAL — WHAT WILL BE CONSIDERED.

"The question of the right of a party to secure a patent can not be raised in this court on appeals in interference proceedings. In such cases the jurisdiction of this court is confined to the question of priority of invention and to such ancillary questions as may be involved therein (citing decisions). These decisions rest upon the proposition that the question of the patentability of an alleged invention is an issue between the applicant and the Patent Office, the Patent Office representing the public. Whereas, the issue of priority of invention and questions ancillary thereto in interference proceedings are matters inter partes."

2. SAME—SAME—SAME—SAME.

Wherein an interference involving an application of G. and a patent to K. and an application of H., both owned by the same assignee, and G. appeals from a decision on priority *Held* that the contention that the common assignee is estopped by reason of the issuance of the K. patent to obtain a patent on H.'s application can not be considered on that appeal, and G. properly held not to be the prior inventor.

APPEAL from the Patent Office. Affirmed.

Mr. S. E. Darby, Mr. C. M. Thomas, and *Mr. F. D. Thomas* for Gowen.

Mr. John G. Roberts and *Mr. Irving McDonald* for Hendry and for King.

HATFIELD, *J.*:

This is an appeal in an interference proceeding from the decision of the Commissioner of Patents.

The Examiner of Interferences, the Examiner in Chief, and the Commissioner of Patents have concurred in holding that appellant was not entitled to an award of priority of invention.

The invention in issue relates to certain improvements in vacuum tubes or audions.

The counts involved read as follows:

1. A vacuum tube comprising a plurality of electrodes one of which is a plate electrode, insulating material supported by said plate electrode above one edge thereof, and a supporting connection from said insulating material to one of said other electrodes.

2. A vacuum tube comprising a cathode, a grid and an anode, insulating material supported by said anode above one edge thereof, and supporting connections from said insulating material to said grid and cathode.

Appellant's application (No. 271,556) was filed January 17, 1919. In his preliminary statement appellant claimed conception and reduction to practice of the invention as follows: conception September 2, 1918, and reduction to practice September 7, 1918.

King's application (No. 317,314) was filed August 13, 1919, and matured into a patent (No. 1,479,991) January 8, 1924, while appellant's application was pending in the Patent Office. In his preliminary statement, King alleged conception and reduction to practice as follows: count 1, conception November 1, 1917, and reduction to practice November 27, 1917; count 2, conception December 1, 1917, and the reduction to practice January 9, 1918.

Hendry's application (No. 217,565) was filed February 16, 1918.

It appears from the record that the King patent and the pending application of Hendry are owned by a common assignee—The Western Electric Company, Incorporated. The Gowen application is owned by The De Forest Radio Company.

The counts in the interference were copied by Gowen from the King patent, and the interference, as originally declared, involved the application of Gowen and the patent to King.

On July 26, 1926, King moved to dissolve the interference on the ground that Gowen had no right to make claims corresponding to the counts in issue.

On January 5, 1925, the Law Examiner denied the motion of King to dissolve the interference, and also denied the motion of The Western Electric Company, Incorporated, theretofore filed, to reform the interference by adding thereto the Hendry application. (The latter motion was filed by the attorney for King and was considered by the tribunals of the Patent Office, and apparently by all of the parties, as a motion by King.) The decision in the case of In re Dunbar, 300 O. G. 201, 51 App. D. C. 251, was cited by the Law Examiner as authority for denying the motion to reform the interference. In that case it was held:

Where two applicants each assigned their copending applications to the same assignee by an assignment which left no interest in the applicant, the election of the assignee to take the patent on one application, which contained narrow claims reading on the disclosure in the other application, is binding on him, and precludes his right to issuance of patent on the other application, containing broader claims covering the same features.

On appeal by King from the decision of the Law Examiner denying the motion to reform the interference by adding the application of Hendry, the Examiners in Chief reversed the decision of the Law Examiner, and in their decision, among other things, said:

The Hendry application was earlier filed, February 16, 1918, as a matter of fact earlier than any date that can be established by Gowen (conception Sept. 2, 1918), so that if the decision of the Law Examiner is affirmed Gowen might secure a patent. As the record clearly shows that he is not the first inventor of the subject matter of the counts as now interpreted by the Law Examiner, he should not be permitted and is not entitled to secure a patent through a mere technicality involving but a question of law—estoppel by election.

* * * * * * *

An estoppel against the assignee of the King patent, the Western Electric Company, if such exists, might be raised by the public, i. e., by the Office, but not by a third party who is in no way injured by the patentee or the assignee and who furthermore cannot be injured by the true facts of the case, those upon which the alleged estoppel is assumed or established, or by the determination of who is the first inventor. The determination of whether such an estoppel exists lies between the assignee and the Office representing the public and is essentially and entirely an ex parte proceeding and has nothing to do with the question of priority, the sole issue in interference proceedings.

On appeal by the appellant, Gowen, the Commissioner of Patents affirmed the decision of the Examiners in Chief and, in so doing, said:

The holding of the Court of Appeals in the Dunbar case is conclusive against King's assignee obtaining a patent to Hendry with these same claims therein as are now in the King patent. The common assignee is clearly estopped from thus prolonging its monopoly. This much was admitted by counsel for King at the hearing.

The Examiners in Chief in reversing the decision of the Law Examiner did not specifically construe the claims of the issue but did point out that the Law Examiner had made an interpretation of the claims at variance with that made by the Primary Examiner and that this was unexpected by King, who believed these claims were more specific.

* * * * * * *

In view of these conflicting opinions as to the true scope of the claims of the issue it may well be King's assignee should be given some opportunity to establish that Hendry was in possession of the invention, as defined in such claims, when they are given, as the Examiners in Chief held, an unexpected and "somewhat forced" interpretation. If, without priority proceedings, Gowen is granted a patent including these claims and Hendry is also granted a patent with other claims based on the construction he discloses, Gowen's patent may be held invalid as to the claims of the issue, if they are shown to be descriptive of Hendry's invention. (See *Ex parte Hammond and Hammond*, 301 O. G. 1051; *Millett* v. *Duell, Commissioner of Patents*, 96 O. G. 1241, 18 App. D. C. 186; *In re Isbergood*, 245 O. G. 847, 46 App. D. C. 507. See also to the contrary, *Davis-Bournonville Co.* v. *Alexander Milburn Co.*, 1 F. (2d) 227 U. S. C. C. A., 2d Cir.

Thereupon, the interference was reformed by the addition of Hendry's application and, as Gowen's date for conception of the invention—alleged in his preliminary statement—was subsequent to the filing date of the senior party, Hendry, notice was given by the Examiner of Interferences on October 29, 1926, that judgment on the record would be entered against Gowen, unless, within thirty days, good cause was shown why such action should not be taken.

On December 6, 1926, Gowen having failed to take any action in the premises, the Examiner of Interferences rendered a decision holding that Gowen was not "the first inventor of the subject matter in issue." This decision of the Examiner was affirmed by the Examiners in Chief and, on appeal, the decision of the Examiners in Chief was affirmed by the Commissioner.

The appellant, Gowen, contended before each of the tribunals of the Patent Office, and contends here, that Hendry was not a proper party to the interference for the reason that, as the Hendry application and the King patent were owned by a common assignee, and, as the application of King had been permitted, by the common assignee, to mature into a patent, an election was thereby made on the question of priority as between King and Hendry, and the assignee was thereafter estopped to claim that Hendry was entitled to an award of priority of the invention patented to King. In other words, it is claimed that, as the subject matter in issue has been patented to King, the common assignee can not obtain an additional and later patent for the precise claims by incorporating them in the Hendry application. The case of *In re Dunbar*, supra, is cited as authority for this contention. With reference to this issue, the Commissioner, in his decision, said:

It is to be noted that there is no necessary inconsistency with the Dunbar decision for the common assignee to assert that its applicant party, when an actual party to an interference, whether properly or not, is prior to the party adverse to the assignee, as a basis for an award against the adverse party. It may be that the patentee party of the common assignee is earlier than assignee's applicant party. But independently of whether the common assignee took out its patented claims in the application of its first inventor of their subject matter, clearly the adverse party is not entitled to an award of priority unless he is prior to both of them.

While it is claimed by appellant in his assignment of errors, that the Commissioner erred in adjudging that Gowen was not the inventor of the subject matter in issue, and that error was committed in awarding priority of invention to Hendry, the real contention of appellant is that the Commissioner erred in reforming the interference by adding the application of Hendry.

The question of the right of a party to secure a patent can not be raised in this court on appeals in interference proceedings. In such cases the jurisdiction of this court is confined to the question of priority of invention and to such ancillary questions as may be involved therein. *Norling* v. *Hayes*, 166 O. G. 1282, 37 App. D. C. 169; *Gammeter* v. *Thropp*, 210 O. G. 1397, 42 App. D. C. 564; *Wintroath* v. *Chapman*, 248 O. G. 1004, 47 App. D. C. 428; *Cowles* v. *Rody*, 270 O. G. 191, 49 App. D. C. 135, 261 Fed. 1015; *Erbon* v. *Yardley*, 277 O. G. 396, 50 App. D. C. 43, 267 Fed. 345; *Earles et al.* v. *Gomber*, 273 O. G. 353, 50 App. D. C. 389, 273 Fed. 353; *Hernandez-Mejia* v. *Kelley*, 298 O. G. 181, 51 App. D. C. 210, 277 Fed. 609. Nor does it necessarily follow that a patent will be issued to the successful party in an

interference proceeding. *United States Ex Rel. Dunkley Company* v. *Ewing*, 203 O. G. 603, 42 App. D. C. 176, and cases cited. These decisions rest upon the proposition that the question of the patentability of an alleged invention is an issue between the applicant and the Patent Office—the Patent Office representing the public. See 35 U. S. C. A. sections 36, 59. Whereas, the issue of priority of invention and questions ancillary thereto in interference proceedings are matters inter partes. See 35 U. S. C. A. sections 52, 59. The Congress has provided for separate appeals to this court in these classes of cases.

The principles announced in the decision in the case of *In re Dunbar*, supra, were intended to prevent so-called "double patenting" and to prevent the extension of the statutory period of patent monopoly. It may be that the confusion, if any, results from the following language, quoted with approval by the court in the Dunbar case, supra:

"By taking out the Dyson patent, an election was made on the question of priority between Dyson and Dunbar, and the common assignee is just as much bound by that election as if an interference had been declared and priority decided in favor of Dyson."

If the court had used that language in an interference proceeding, counsel might have some justification for claiming that it was applicable here; however, it was used in an ex parte appeal and had reference only to the patentability of the Dunbar claims.

As appellant was bound by his preliminary statement, and, as the filing date of the Hendry application is prior to the date alleged for conception by appellant, the tribunals below were right in holding that appellant was not the first inventor of the invention, and, therefore, was not entitled to an award of priority. For the reasons stated, the decision of the Commissioner of Patents is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE MCLAUGHLIN AND GOLDBERG

No. 2,163. Decided December 30, 1929

[36 F. (2d) 488]

PATENTABILITY—FOOD PRODUCT.

Claims for a food product comprising dry yeast and prepared chocolate *Held* unpatentable over the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. D. Hesselman, *Mr. W. B. Morton*, and *Mr. R. K. Stevens* for McLaughlin and Goldberg.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from the decision of the Commissioner of Patents, affirming that of the Examiners in Chief finally rejecting claims 1 and 2 of appellant, which read as follows:

1. A food product comprising a mixture of dry yeast and prepared chocolate.
2. A food product comprising a mixture of dry yeast and a chocolate compound containing less than 30% of water.

The references are: Hull, 413,944, October 29, 1889; Cameron, 427,553, May 13, 1890; Booker, 1,309.979, July 15, 1919.

The specification upon which the claims are based reads as follows:

The object of this invention is to produce a palatable food product containing a maximum amount of water soluble vitamines which maintains its value for a long period of time without artificial aid, such as cold storage, and which is instantly available for use. It is well known that the yeast plant contains relatively large amount of vitamines, but in order to get the benefit of it, it has been found necessary to use either the living or the freshly killed yeast plant.

We have discovered that if the yeast be first desiccated in such a manner as not to destroy its life and then mix with some palatable food which does not contain sufficient water to cause the yeast to attempt to grow, that it will remain alive and preserve its chemical and vital qualities through long periods of time under ordinary conditions.

We also find that, if the water content of the mixture of yeast and the palatable vehicle be over 30 per cent, the yeast will attempt to grow, and will slowly invert the sucrose of the vehicle into glucose. For this reason the ordinary commercial yeast cakes at present on the market are not adapted for our purpose since they contain approximately 75 per cent of water.

We have found that, owing to the low temperature at which it melts and the absence of a large percentage of free water, chocolate is ideally adapted to carrying the dried yeast plant. In carrying our invention into effect, we take a mixture of chocolate and cane sugar, melt them together and when the temperature of the mixture falls below the point at which the yeast would be injured (about 110° F.), the desiccated yeast is thoroughly incorporated into the mass which is made into cakes and allowed to cool. These cakes are palatable and, in ordinary temperatures, preserve the valuable food properties of the yeast for a long period of time. We, of course, do not limit ourselves to the use of chocolate and sugar for carrying the desiccated yeast.

By the term "prepared chocolate" used in the appended claims we mean chocolate in cake form sweetened and flavored for immediate consumption without further preparation.

The decision of the Commissioner reads as follows:

Applicant has appealed from the decision of the Examiners-in-Chief, affirming that of the Primary Examiner, denying patentability to claims 1 and 2, which are as follows:

1. A food product comprising a mixture of dry yeast and prepared chocolate.
2. A food product comprising a mixture of dry yeast and a chocolate compound containing less than 30% of water.

The patents relied upon are:

Booker, 1,309,979, July 15, 1919.
Hull, 413,944, Oct. 29, 1889.
Cameron, 427,553, May 13, 1890.

The claims are directed to an edible product consisting of dry yeast and a chocolate compound. The yeast is incorporated with the chocolate and is stated to be protected by the latter. The chocolate is claimed to serve as a vehicle for the yeast, making the latter more palatable and also protecting the yeast from atmospheric moisture and evaporation.

The patent to Hull discloses a yeast cake made up of the yeast incorporated with prepared corn meal which latter, under the effect of great pressure employed in the manufacture of the cake, is forced to the surface of the cake and forms a thin compact crust serving to protect the yeast from the deleterious action of the atmosphere Over the entire surface of the yeast cake a smooth coating of sugar is placed.

The Cameron patent discloses a cake of dry yeast coated with sugar and, outside the latter, with paraffin, shellac, or other innocuous mineral, or vegetable wax or gum, impervious to water. It is stated by this patentee that the yeast cake is thus coated so that "the air and all moisture shall be wholly excluded therefrom, so that it will retain its life and efficiency for an indefinite period and in all climates, and be unaffected by its surroundings."

The claims are anticipated if it be held the substitution of the chocolate compound for the corn meal and sugar involved no invention. The palatable qualities of chocolate compounds are a matter of common knowledge. These materials have been used in a multitude of relations to improve the taste of edible products. It is likewise well known that the chocolate compound does not readily deteriorate when exposed to the atmosphere. The patentee, Hull, having disclosed that the deleterious effect of the atmosphere upon yeast may be prevented by mixing with the latter a material not readily affected by the atmosphere, it would seem there was nothing inventive in selecting another well known material and making the substitution. While the applicant argues the product is new and useful and is intended for direct consumption rather than use in baking bread, yet it is believed to have been nothing inventive in merely selecting the well known chocolate compound and mixing it with the yeast to obtain the protecting and preserving functions suggested by Hull. The decision of the Examiners-in-Chief is affirmed.

Appellant insists that the Commissioner erred in holding that chocolate and corn meal are equivalents in the art to which the application relates or any art, and in holding that the applicant's food product and the preserved yeast for baking purposes belong to analogous arts.

It should first be observed that the claims here in question relate to a product of manufacture and not to a process.

Appellants, in their brief, admit that the palatable qualities of chocolate compounds are well known, and that chocolate compounds do not readily deteriorate when exposed to the atmosphere, but contend that they are the first to utilize a chocolate compound for the dual purpose of preserving dry yeast against deterioration and producing a palatable foodstuff containing in a cake no larger than an ordinary yeast cake an equivalent amount of yeast.

The patent to Hull discloses a yeast cake produced by mixing yeast and corn meal, subjecting the cake to pressure and applying a smooth coating to the surface, preferably of sugary matter. The specification states that the effect of the pressure is to force the finer granules of prepared corn meal to the surface, forming a thin compact crust, which serves to protect for a considerable length of time the yeast plant throughout the interior portion of the cake from the deleterious action of the atmosphere. It also states that the coating of sugary matter furnishes an effective bar to the admission of the atmosphere to the yeast in the cake. The patent to Cameron also discloses a mixture of yeast with corn or barley meal made into a yeast cake, with the moisture afterwards extracted therefrom by drying. The cake is then coated with sugar and finally coated with a thin layer of paraffin or wax. In this patent the yeast cake is stated to be for baking purposes, while the Hull patent is silent as to use. These being product claims, this is immaterial. If the specification of either discloses a composition of matter that covers appellants' claims there is no invention by them in their product. The only question is whether prepared chocolate or a chocolate compound is an equivalent for corn meal. We think it is. Both are edible, both serve to prevent deterioration from the atmosphere, and the only difference between them is one of degree. The chocolate preparation does prevent atmospheric deterioration, but its property in this respect is well known, and it may be that it is more effectual in doing so than corn meal; it is more palatable than corn meal, but its quality in that respect is also well known.

The facts in this case are not, in principle, unlike those in the case of *Maryland Hominy & Coralline Company* v. *Dorr*, 46 F. 773, involving the patentability of a preparation of corn meal, where the court said:

The complainant's product, independently of the process of making it, cannot be supported as for a new composition of matter, or a new substance not before known. Commercially speaking, it may be a new article of manufacture, but it is after all only an improved preparation of Indian corn, with the same characteristics and qualities as other similar preparations. It may be less liable to spoil, more porous, more easily soluble; it may unite more readily with the diastase of malt,—but these are not new and peculiar qualities; they are only the same qualities in an improved degree, which are inherent in other preparations of the same substance.

The fact that in the case at bar the yeast is mixed in a dry state, while in the Cameron patent it is mixed while in a moist state is immaterial. *In re Roselius*, 162 O. G. 272, 36 App. D. C. 130.

We agree with the Commissioner that the substitution of prepared chocolate or a chocolate compound for corn meal, in the product produced, does not involve invention.

As to the contention of appellants that the Commissioner erred in holding that applicants' food product and the preserved yeast for baking purposes belong to analogous arts, we repeat that the patent to Hull is silent upon the use of the yeast cake and we can not say that it was intended to be used solely for baking purposes.

Furthermore, it is stated in appellants' brief:

As everyone knows, yeast has become a popular tonic food, even in its more or less unpalatable form.

If the ordinary yeast cake be used both for baking purposes and as a tonic food, we can not say that the art of making one form exclusively for food is not analogous to the art of making another form for use both as a food and for baking purposes.

The decision of the Commissioner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

NOLOP *v.* SMITH

No. 2,187. Decided January 13, 1930

[36 F. (2d) 838]

1. INTERFERENCE — PRELIMINARY STATEMENT — PARTY BOUND BY THE ALLEGATIONS THEREOF.

A party may not be permitted, without amendment of the preliminary statement, to prove any date of invention earlier than that alleged in such statement.

2. SAME—PRIORITY—APPEAL—WHAT MAY BE CONSIDERED.

"We find in the files a reply brief by appellant, and also certain affidavits and exhibits attached thereto, not produced before the Patent Office, which appellant's counsel asks us to consider in deciding this appeal. Permission was not secured from the court to file a reply brief, and the statute is plain that upon this appeal the court can consider only evidence produced before the Patent Office."

3. SAME—SAME.

Priority *Held* properly awarded to S. on the ground that he had proved conception and reduction to practice prior to any date alleged in N's preliminary statement, to which N's proofs must be restricted in the absence of any motion to amend her statement.

APPEAL from the Patent Office. Affirmed.

Mr. F. H. Hayn for Nolop.

Mr. W. E. Coleman and *Mr. F. S. Stitt* for Smith.

LENROOT, *J.*:

This is an appeal from a decision of the Commissioner of Patents in an interference proceeding, affirming a decision of the Examiners in Chief which affirmed a decision of the Examiner of Interferences awarding priority of invention to appellee.

The invention relates to a plumbing fixture, and is described in the two counts in issue, which read as follows:

1. In a flush tank, the combination with a float ball having an arm, an overflow pipe and means secured to

said overflow pipe for engaging said arm and limiting the downward movement of said ball.

2. In a flush tank, the combination of a float ball having an arm, an overflow pipe and means for limiting the downward movement of said ball, said means comprising a hook secured to said overflow pipe, said hook being adapted to engage the arm of said float ball.

Patent was issued to appellant on December 9, 1924, upon an application filed February 19, 1924.

Appellee's application was filed March 14, 1925.

The interference was declared by the Commissioner on May 29, 1925.

The preliminary statement of appellant was filed on June 22, 1925, and that of appellee in July, 1925.

The dates set up in appellant's statement are as follows: conception, November, 1922; drawing, March, 1923; model, October, 1923; disclosure, December, 1923 (model and explanation); reduction to practice, December 9, 1924.

The dates set up in appellee's statement are as follows: conception, March, 1921; drawing, September, 1921; model, September, 1921; disclosure, October, 1921; reduction to practice, September, 1921.

Both parties introduced testimony in support of their respective contentions.

All three tribunals concurred in awarding priority to appellee, the Examiner of Interferences and Examiners in Chief specifically finding that no earlier dates could be given appellant than those set out in her preliminary statement, and that appellee's proofs established beyond a reasonable double conception and reduction to practice prior to the dates set out in appellant's preliminary statement.

The decision of the Commissioner held that while appellant in her preliminary statement sets up December 9, 1924, as the date of her reduction to practice, she is entitled to the date of February 19, 1924, when she filed her application, for constructive reduction to practice. He further held that upon all the testimony appellee had established conception and reduction to practice at an earlier date than conception and reduction to practice by appellant, as shown by her testimony. The Commissioner does not specifically hold, as did the lower tribunals, that appellant was confined to the dates set up in her preliminary statement for conception, disclosure and reduction to practice, but he does note the fact, as did the other tribunals, that no motion was made by appellant to amend her preliminary statement to make it conform to the testimony produced by her.

Were we at liberty to ignore the dates set out in the preliminary statement of appellant and pass upon the case solely upon the testimony in the record, we should be compelled to find that the Commissioner and other tribunals in the Patent Office erred in awarding priority to appellee, because of the failure of appellee to sustain that burden of proof which the law requires, appellant being the senior party.

This, however, we are not at liberty to do, except as to allowing an earlier date of constructive reduction to practice. Upon this question we agree with the Commissioner that appellant is entitled to the date of filing of her application, February 19, 1924, for a constructive reduction to practice. This was permissible because the records of the Patent Office show that as a matter of law she was entitled to that date, and no proof was necessary to establish it, and no other date could have been set up so far as *constructive* reduction to practice was concerned.

However, under the rules of the Patent Office, appellant could not, without amendment of her preliminary statement be permitted to prove any date of reduction to practice earlier than said February 19, 1924, and this date is later than the date of reduction to practice by appellee, as established by the uncontradicted testimony produced by him.

It is well established that testimony taken by a party to an interference to show disclosure or reduction to practice prior to the date set forth in his preliminary statement, without amendment of such statement, is inadmissible and will not be considered. *Cross* v. *Phillips*, 87 O. G. 1399, 14 App. D. C. 228; *Bader* v. *Vajen*, 87 O. G. 1235, 14 App. D. C. 241; *Fowler* v. *McBerty*, 121 O. G. 1015, 27 App. D. C. 41; *Neth* v. *Ohmer*, 123 O. G. 998, 27 App. D. C. 319; *Lowrie* v. *Taylor*, 123 O. G. 1665, 27 App. D. C. 522.

Appellee's counsel, when the testimony of appellant was taken, objected to all testimony tending to show dates of disclosure and reduction to practice earlier than those set out in her preliminary statement.

The three tribunals of the Patent Office, having concurred in finding that appellee's disclosure and reduction to practice antedated the earliest date that can be allowed appellant under her preliminary statement, and there being no evidence contradicting the testimony produced by appellee to establish that fact, we are compelled to affirm the decision of the Commissioner.

Appellant's counsel points to certain facts tending to excuse appellant for not having amended her preliminary statement, setting up earlier dates of disclosure and reduction to practice, but we can not alter a well settled rule of law. We would observe, however, that appellant's present counsel, who acted for her in the taking of the testimony in her behalf, was himself a witness and testified that for twenty-one years he was an Assistant Examiner in the Patent Office. Therefore, he was presumably familiar with the rules of that Office. He must have known that the rules provided for motions to amend preliminary statements in interference proceedings, and that in certain cases amendments may be made, even after the taking of testimony, where material error in the statement, arising through inadvertence or mistake, has been made, and upon a satisfactory showing that the correction is essential to the ends of justice. Rule 113.

In this case there was no motion to amend the preliminary statement to conform to the testimony produced by appellant, and all of the tribunals of the Patent Office point out this important fact in their decisions.

We find in the files a reply brief by appellant, and also certain affidavits and exhibits attached thereto, not produced before the Patent Office, which appellant's counsel asks us to consider in deciding this appeal. Permission was not secured from the court to file a reply brief, and the statute is plain that upon this appeal the court can consider only evidence produced before the Patent Office.

The jurisdiction of this court is limited to the consideration of alleged errors by the Patent Office, and if no error is found, its decisions must be affirmed. So in this case we simply hold that upon the record made there was no error upon the part of the Patent Office in awarding priority of invention to appellee. It may be that in an infringement suit appellant may be found to be the prior inventor and her patent held valid. As to this we express no opinion.

The decision of the Commissioner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE SMITH

No. 2,192. Decided December 30, 1929

[36 F. (2d) 522]

1. PATENTABILITY—ANTICIPATION—ADMISSION.

Where applicant neither asked for an interference with the patent to W. nor attempted, under the provisions of rule 75, to show prior invention of the unclaimed subject matter, *Held* "It must be assumed from the record before us that appellant was not the first inventor of anything disclosed" in that patent.

2. SAME—SAME—SAME.

Where after the citation of a reference for the first time in the Examiner's answer to an appeal applicant made no request that the case be referred to the primary Examiner for reconsideration in view thereof, *Held* that he waived his right to such reconsideration.

3. SAME—EQUIPMENT FOR BILLING TYPEWRITING MACHINES.

Claims for certain equipment for billing typewriting machines *Held* unpatentable in view of the prior art.

APPEAL from the Patent Office. Affirmed.

Mr. B. C. Stickney and *Mr. L. H. Campbell* for Smith.

Mr. T. A. Hostetler for the Commissioner of Patents.

LENROOT, *J.*:

This is an appeal from the decision of the Board of Appeals of the Patent Office, affirming the action of the Examiner in rejecting all of appellant's claims, five in number, for a patent upon certain equipment for billing typewriting machines.

Claim 1 is illustrative of the claims here in issue and reads as follows:

In the art of magazines for selectively supplying and feeding continuous webs containing work-forms to continuous billing typewriting machines equipped with carbon-sheet frames, a magazine provided with banks of holders for continuous work-webs arranged in vertical and horizontal rows side by side and movable in a horizontal plane along and parallel with the rear of a continuous billing typewriting machine in order to move the banks selectively into web-supporting and feeding position in respect to the machine and the holders arranged to enable the webs as supplied and fed by them to the machine to be permanently interleaved with the carbons of the sheet-frames, whereby the webs interleaved with carbon-sheets can be quickly changed on the machine to webs interleaved with carbon-sheets on the holders in web-supplying and feeding position.

The claims having been twice rejected for want of invention, applicant appealed to the Board of Appeals. In his statement in response to said appeal the Examiner cited the following references: Waldheim, 1,616,071; Smith, 1,358,033; Smith, 1,380,746; Melton, 1,333,931; Barker, 1,260,953; Krause et al., 428,111; Kuentzel, 1,304,492; Apperson et al., 610,510; Clouse, 940,236.

Of the above references, that of Waldheim, 1,616,071, had not before been cited by the Examiner. Waldheim 1,464,122 was cited by the Examiner in his notice of rejection of the claims, but not in his statement upon appeal, nor was it cited by the Board in its decision. Waldheim, 1,615,894, so far as appears from the record before us, was cited for the first time by the Board of Appeals in its decision affirming the action of the Examiner in rejecting the claims. The Board in said decision made Waldeheim 1,616,071 the basic reference. No mention is made in the decision of Waldheim 1,464,122, and Waldheim 1,615,894 was cited only upon a minor question, in connection with another citation to the same point.

It appears from said decision that appellant objected to the citation of the Waldheim patent 1,616,071 upon two grounds:

1. That the application upon which that patent was granted was pending contemporaneously with the present case.

2. That said patent was cited for the first time on appeal.

Shortly after said decision was rendered appellant filed a petition for reconsideration of a certain portion of the opinion of the Board. In that petition it was argued that the Waldheim patent did not embody the invention claimed by appellant, and because of the differences between it and appellant's device, it was not a proper reference.

In said petition appellant submitted a new claim for the consideration of the Board.

The Board rendered its decision on the petition for reconsideration and adhered to its previous ruling, affirming the rejection of the claims. As to the new claim proposed by appellant it declined to approve its admission, stating that it was not certain that the proposed claim was patentably distinguished from the combination of references suggested in its former decision, and that in any event the claim had not been submitted to the Examiner, who was the office expert in this art, and hence it had not had the benefit of his views as to the patentability of the claim.

Appellent's appeal is from the original decision of the Board, and the refusal of the Board to admit the new claim is not included in the notice of appeal or as one of the reasons for the appeal. Therefore that question is not before us and can not be considered.

Two principal questions of law are urged by appellant for the reversal of the decision of the Board:

1. That the Waldheim patents, Nos. 1,616,071, 1,615,894 and 1,464,122 were not proper references, because they were co-pending, when issued, with appellant's application.

2. That appellant's claim had not been twice rejected by the Examiner with the Waldheim patents as a reference.

As to the first of appellant's contentions, it appears that the application upon which the Waldheim patent, 1,616,071 was issued was filed on July 7, 1921, and the application in No. 1,615,894 was filed July 6, 1921, whereas appellant's application was filed on December 3, 1921. Both of these Waldheim patents were issued on February 1, 1927. As to Waldheim 1,464,122, as we have already observed, this patent was not referred to by the Examiner in his statement or by the Board in its decision.

It was held in the case of *Alexander Milburn Company* v. *Davis-Bournonville Company*, 344 O. G. 817, 270 U. S. 390, that where a patent application fully and adequately disclosed, but did not claim, the thing patented to a later applicant alleging a later date of invention, the later applicant was not the "first inventor" within Revised Statutes, section 4920. In that case, as in this, both applications were pending when the earlier patent was issued and it establishes the rule that the mere fact that applications are copending does not preclude the use of a patent issued upon the earlier application as a reference in the rejection of the later application.

[1] If appellant had made any claim that his invention was in fact prior to that of Waldheim, an interference could have been declared, in so far as Waldheim had made claims based upon his specification; or if his specification disclosed the invention covered by appellant's claims, appellant could, by complying with rule 75 of the Patent Office, showing prior invention by him, have prevented the use of the Waldheim patent as a bar to a patent to him. This appellant did not do, and it must be assumed upon the record before us that appellant was not the first inventor of anything disclosed by the Waldheim patent.

The appellant's second contention is that his claims had not been twice rejected by the Examiner citing the Waldheim patent as a reference, and for that reason the Board of Appeals had no jurisdiction to entertain and apply said patent as a reference. He bases this contention upon section 4909 of the Revised Statutes, 35 U. S. C. A., section 57. This section reads as follows:

> Appeals; from Primary Examiners to Examiners in Chief. Every applicant for a patent or for the reissue of a patent, any of the claims of which have been twice rejected, and every party to an interference, may appeal from the decision of the Primary Examiner, or of the Examiner in charge of interferences in such case, to the Board of Examiners in Chief; having once paid the fee for such appeal.

[2] The fact is that the five claims here in question had been twice rejected by the Primary Examiner, and the appeal was taken from his second rejection. The statute makes no requirement that the grounds of rejection shall be stated. The rules of the Patent Office do require the reasons for the rejection to be fully and precisely stated, rule 65. This was done by the Examiner. This rule further states that upon the rejection of an application for want of novelty, "the Examiner must cite the best references at his command." It appears from the record that the final rejection by the Primary Examiner occurred on April 2, 1926. As has already been stated, the Waldheim patents, Nos. 1,616,071 and 1,615,894, were issued February 1, 1927, upon applications filed prior to the application of appellant. Appellant did not take his appeal to the Board until March 3, 1927, which was after the issue of the Waldheim patents. In the Examiner's statement in response to said appeal, dated March 23, 1927, as required by the rules of the Patent Office, the Examiner cited as an additional reference Waldheim patent, 1,616,071. This was the first opportunity that he had to do so. Though not otherwise appearing in the record, the decision of the Board states that appellant's attention was called to this new reference when he received the Examiner's statement, and we must therefore assume that appellant did receive a copy of the Examiner's statement. It further appears from the decision of the Board that appellant objected to the citation of the Waldheim patent, but it nowhere appears that he asked that the matter be remanded to the Primary Examiner for a reconsideration of his claims in view of the Waldheim citation.

The rules and practice of the Patent Office provide for the protection of the applicant in such cases. Appellant did not choose to avail himself of the opportunity that the rules provided to have secured a reconsideration by the Primary Examiner, and he must be held to have waived such reconsideration. In any event, the failure of the Primary Examiner to cite references is not a jurisdictional defect preventing their later use as references on appeal.

It would be a strange situation indeed if the failure of the Primary Examiner to cite a reference which would bar the issue of a patent would compel the issue of a patent which would be clearly invalid. No such construction of the patent laws is warranted.

In the case of *In re Drawbaugh*, 77 O. G. 657, 9 App. D. C. 219, it was held that—

> It is the duty of the Commissioner, if he knows any substantial, reasonable grounds why a patent should not issue, to refuse the patent, whether the specific objection be raised and acted upon by the Examiner or not.

[3] These questions of law being disposed of, there remains the question of whether the Board of Appeals erred in holding that there was want of invention by appellant, in view of the references cited. This involved the determination of a fact, and upon a careful review of the record we concur in the conclusion of the Board.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,018,502, Just & Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., M. D. Tenn. (Nashville), Doc. E 360, *General Electric Co.* v. *B. Ransom et al.* Patents held valid and infringed (notice Feb. 11, 1930).

1,025,822, 1,163,253, W. H. Millspaugh, Paper-making machine; 1,163,251, same, Paper making, D. C., W. D. Wash. (N. Div.), Doc. 660, *The Guardian Trust Co. et al.* v. *National Paper Products Co.* Dismissed without prejudice Feb. 10, 1930. Doc. 661, *The Guardian Trust Co. et al.* v. *Washington Pulp & Paper Corp.* Decree as above.

1,075,019, 1,075,021, R. L. Cooney, Dry-pipe water-service fire-extinguisher system; 1,075,091, same, Stationary fire-extinguisher system, filed Jan. 25, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9617, *R. L. Cooney et al.* v. *Fire Protection Co.*

1,075,021. (See 1,075,019.) 1,075,091. (See 1,075,019.)

1,082,784, A. A. West, Hair curler, filed Feb. 17, 1930, D. C., S. D. N. Y., Doc. —, *West Electric Hair Curler Co.* v. *F. Rubio et al.* (*New York Export Co.*).

1,125,513, A. C. Graham, Well-pipe perforator, filed Feb. 11, 1930, D. C., S. D. Calif. (Los Angeles), Doc. E Q–118–J, *A. C. Graham* v. *Baash-Ross Tool Co.*

1,134,603, 1,182,551, 1,414,564, J. Gabel, Automatic talking machine, filed Jan. 3, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9579, *Gabel's Entertainer Co.* v. *C. H. Bartholomew.*

1,169,251. (See 1,025,822.) 1,163,253. (See 1,025,822.)

1,163,680, L. W. Noyes, Power-transmission mechanism, appeal filed Feb. 17, 1930, C. C. A., 8th Cir. (St. Louis), Doc. 8834, *Challenge Co.* v. *Aermotor Co.*

1,180,159. (See 1,018,502.) 1,182,551. (See 1,134,603.)

1,199,124, W. O. Snelling, Food product, C. C. A., 2d Cir., Doc. 10662, *W. O. Snelling* v. *Dernell Potato Products Co.* Decree reversed (notice Feb. 18, 1930).

1,305,690, H. S. Coyer, Grid-making machine, filed Jan. 10, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9581, *De Forest Radio Co.* v. *Grigsby-Grunow Co.*

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, D. C., S. D. N. Y., Doc. —, *The Bassick Mfg. Co.* v. *Manhattan Mirror Works, Inc.* Consent decree for plaintiff Feb. 19, 1930.

1,307,734. (See 1,307,733.)

1,370,913, J. E. Rioux, Composition of matter for doughnut mix, filed Jan. 15, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9612, *J. E. Rioux et al.* v. *M. Kempner et al.*

1,381,728. (See 1,504,697.)

1,388,898, Schmidt & Schmidt, Carcass dehairing and cleaning machine; 1,388,899, O. C. Schmidt, same, D. C., W. D. Okla. (Oklahoma City), Doc. E 859, *The Cincinnati Butcher's Supply Co.* v. *W. H. Butcher Packing Co.* Dismissed Jan. 18, 1930.

1,388,899. (See 1,388,898.) 1,414,564. (See 1,134,603.)

1,449,874, E. F. Suter, Permanent hair waving, filed Jan. 10, 1930, D. C., N. D. Ohio (E. Div.), Doc. 9583, *Eugene, Ltd.* v. *The National Mineral Co.*

1,469,596, J. W. Hoodwin, Tray; Des. 60,025, same, Ice-cream-cone tray, C. C. A., 3d Cir., Doc. 3795, *Daigger Corp.* v. *L. C. Evans* (*Evans Printing Co.*). Patents held not infringed Feb. 13, 1930.

1,475,980. (See 1,307,733.)

1,504,128, C. G. Lindbom, Cigarette case, D. C., S. D. N. Y., Doc. E 51/64, *Wm. Demuth & Co.* v. *Wales Novelties Corp.* Consent decree for plaintiff Feb. 15, 1930.

1,504,697, J. A. Menard, Abrasive compound; 1,381,728, same, Abrasive composition, filed Feb. 15, 1930, D. C., Mass., Doc. E 3209, *Timesaver Products Co.* v. *J. O. Werner.*

1,526,982, E. W. Hill, Stencil sheet, filed Feb. 18, 1930, D. C., Conn. New Haven), Doc. E 2054, *A. B. Dick Co.* v. *Trinity Stationery & Office Equipment Co.*

1,549,177, J. F. Allen, Rubber-molding apparatus, appeal filed Feb. 8, 1930, C. C. A., 3d Cir., Doc. 4361, *J. F. Allen et al.* v. *Bay State Iron Works et al.*

1,556,736, Wheeler & Nugent, Mechanism for insuring correct starting point in fabric-measuring machines, D. C., N. D. Ga. (Atlanta), Doc. E 492, *The Measuregraph Co.* v. *Grand Rapids Store Equipment Corp.* Dismissed Feb. 7, 1930.

1,576,480, A. W. Kath, Clip-attaching machine, filed Feb. 18, 1930, D. C., Conn. (New Haven), Doc. E 2053, *A. Colton Co.* v. *MacKesson Robbins Co.*

1,580,651, E. V. Daily, Radiator, appeal filed Nov. 26, 1929, C. C. A., 3d Cir., Doc. 4309, *Automatic Gas Steam Radiator Co.* v. *J. B. Clow Sons.*

1,581,485, C. B. Gilmore, Hood latch, filed Feb. 14, 1930, D. C., N. D. Ohio (W. Div.), Doc. E 1048, *Chicago Forging & Mfg. Co.* v. *Chevrolet Motor Ohio Co.*

1,604,093, 1,737,294, P. C. Booty, Receptacle for face powder, filed Jan. 20, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9621, *M. T. Daley* v. *H. Rubinstein, Inc.*

1,607,632, O. Kupferman, Electric switch, filed Feb. 19, 1930, D. C., S. D. N. Y., Doc. E 52/75, *Leviton Mfg. Co.* v. *Far-Go Electric Mfg. Co.*

1,634,134, C. C. Bogardus, Upper-cylinder oiler, D. C., S. D. Calif. (Los Angeles), Doc. M–95–M, *C. C. Bogardus* v. *Fuiol Laboratories, Inc., et al.* Dismissed Feb. 11, 1930.

1,665,715, O. P. Noisom, Compass indicator for automobiles, D. C., N. D. Iowa (Dubuque), Doc. E 147, *O. P. Noisom* (*Noisom Auto Compass Co.*) v. *Automatic Auto Compass Co.* Dismissed for lack of patentability Feb. 15, 1930.

1,670,932, L. H. Dickelman, Brooder house, D. C., N. D. Ohio (W. Div.), Doc. E 933, *The Dickelman Mfg. Co. et al.* v. *P. C. Lorcher et al.* Patent held valid (notice Feb. 14. 1930).

1,675,275, R. O. Oakley, Weather strip, filed Feb. 10, 1930, D. C., Mo. (St. Louis), Doc. 8929, *R. O. Oakey et al* v. *Peerless Weatherstrip Caulking Co., Inc.*

1,682,474, A. Bergman, Decorative embroidery, D. C., S. D. N. Y., Doc. E 46/326, *Trusogram Corp.* v. *Venetian Monogram Corp. et al.* Consent order of discontinuance Feb. 18, 1930.

1,685,906, 1,789,490, W. J. Campbell, Slicing machine, filed Jan. 10, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9582, *American Slicing Machine Co.* v. *Hussmann Ligonier Co. et al.*

1,688,478, A. J. Weiss, Electrical condenser, filed Feb. 11, 1930, D. C., S. D. N. Y., Doc. E 52/59, *Dubilier Condenser Co.* v. *Polymet Mfg. Corp.*

1,726,113, B. C. Miller, Machine for making annular pieces of candy, filed Feb. 17, 1930, D. C., S. D. N. Y., Doc. E 52/65, *B. C. Miller et al.* v. *Life Savers, Inc.*

1,737,294. (See 1,604,093.) 1,739,490. (See 1,685,906.)

1,739,490, W. J. Campbell, Slicing machine, filed Jan. 14, 1930, D. C., N. D. Ill. (E. Div.), Doc. 9610, *American Slicing Machine Co.* v. *Cincinnati Time Recorder Co.*

Des. 60,025. (See 1,469,596.)

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,604,054, P. H. Kuyper, Track mounting for screens or the like, decided February 28, 1930, claims 3, 4, 5, 6, and 7.

Pat. 1,614,630, H. Petin, Weight-operated plate or sheet sorting machine, decided March 3, 1930, claim 7.

Pat. 1,646,050, J. L. Brown, Amplifiers, decided March 15, 1930, claims 1, 2, 3, 4, 5, and 6.

Pat. 1,704,052, L. W. Melcher, Car-axle bearings for trucks, decided March 18, 1930, claims 1 and 9.

Changes in Fees

[PUBLIC—NO. 112—71ST CONGRESS]

[H. R. 10,076]

An Act To amend sections 476, 482, and 4934 of the Revised Statutes, sections 1 and 14 of the Trade-Mark Act of February 20, 1905, as amended, and section 1 (b) of the Trade-Mark Act of March 19, 1920, and for other purposes.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 476 of the Revised Statutes, as amended (United States Code, title 35, section 2), is amended to read as follows:

"SEC. 476. There shall be in the Patent Office a Commissioner of Patents, one First Assistant Commissioner,

two Assistant Commissioners, and nine Examiners in Chief, who shall be appointed by the President, by and with the advice and consent of the Senate. The First Assistant Commissioner and the Assistant Commissioners shall perform such duties pertaining to the office of Commissioner as may be assigned to them, respectively, from time to time by the Commissioner of Patents. All other officers, clerks, and employees authorized by law for the office shall be appointed by the Secretary of Commerce upon the nomination of the Commissioner of Patents, in accordance with existing law."

SEC. 2. Section 482 of the Revised Statutes as amended (United States Code, title 35, section 7) is hereby amended by substituting the words "Assistant Commissioners" for the words "Assistant Commissioner," in conformity with the provisions of section 1 of this bill.

SEC. 3. Section 4934 of the Revised Statutes, as amended (United States Code, title 35, section 78), is amended to read as follows:

"SEC. 4934. The following shall be the rates for patent fees:

"On filing each original application for a patent, except in design cases, $25, and $1 for each claim in excess of twenty.

"On issuing each original patent, except in design cases, $25, and $1 for each claim in excess of twenty.

"In design cases: For three years and six months, $10; for seven years, $15; for fourteen years, $30.

"On every application for the reissue of a patent, $30.

"On filing each disclaimer, $10.

"On an appeal for the first time from the Primary Examiners to the Board of Appeals, $15.

"On every appeal from the Examiner of Interferences to the Board of Appeals, $25.

"For uncertified printed copies of specifications and drawings of patents, 10 cents per copy: *Provided*, That the Commissioner of Patents may supply public libraries of the United States with such copies as published, for $50 per annum: *Provided further*, That the Commissioner of Patents may exchange copies of United States patents for those of foreign countries.

"For copies of records made by the Patent Office, excluding printed copies, 10 cents per hundred words.

"For each certificate, 50 cents.

"For recording every assignment, agreement, power of attorney, or other paper not exceeding six pages, $3; for each additional two pages or less, $1; for each additional patent or application included or involved in one writing, where more than one is so included or involved, 50 cents additional.

"For copies of drawings, the reasonable cost of making them."

SEC. 4. That sections 1 and 14 of the act entitled "An Act to authorize the registration of trade-marks used in commerce with foreign nations or among the several States or with Indian tribes, and to protect the same," approved February 20, 1905, as amended (United States Code, title 15, section 81); and section 1 (b) of the act of March 19, 1920, entitled "An Act to give effect to certain provisions of the Convention for the Protection of Trade-Marks and Commercial Names, made and signed in the city of Buenos Aires, in the Argentine Republic, August 20, 1910, and for other purposes" (United States Code, title 15, section 109) are hereby amended by providing that the fee for registration of trade-marks and renewals of registrations shall be $15.

SEC. 5. The money required for the Patent Office each year, commencing with the fiscal year 1932, shall be appropriated by law out of the revenues of that Office, except as otherwise provided by law.

SEC. 6. The Commissioner of Patents is hereby authorized to annually destroy or otherwise dispose of all the files and papers belonging to all abandoned applications which have been on file for more than twenty years.

SEC. 7. This act shall take effect upon the date of its enactment, except that sections 3 and 4 shall take effect on the 1st day of June, 1930.

Approved, April 11, 1930.

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, Apr. 7, 1930.*

Rex-Tone Laboratories, Inc., its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of United Drug Company, 43 Leon Street, Boston, Mass., to effect the cancellation of trade-mark registration No. 183,225, issued April 22, 1924, to William T. Ellison, 115 E. Liberty Street, Savannah, Ga., which registration, the assignment records of the Office show, has been transferred to Rex-Tone Laboratories, Inc., Tampa, Fla. The notice of such proceeding sent by registered mail to Rex-Tone Laboratories, Inc., at the said address having been returned by the post office as undeliverable, notice is hereby given that unless Rex-Tone Laboratories, Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM A. KINNAN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, Apr. 7, 1930.*

The Smile Company, its assigns or legal representatives, take notice:

A cancellation proceeding has been instituted by this Office upon the application of The William Boardman & Sons Co., 53–59 Edwards Street, Hartford, Conn., to effect the cancellation of trade-mark registration No. 162,022, issued November 28, 1922, to The Smile Company, 221–223 East Fourth Street, Topeka, Kans. The Office having been unable to secure satisfactory service upon The Smile Company at the said address, notice is hereby given that unless The Smile Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

Interference Notice

U. S. PATENT OFFICE, *Washington, Apr. 8, 1930.*

Frank T. Brown, his assigns or legal representatives, take notice:

An interference has been declared by this Office between the applications for patent of Frank T. Brown, 114 Stimson St., Detroit, Mich., and of Joseph Lashenick, 171 McKibben St., Brooklyn, N. Y. A notice of such declaration sent to Solomon Dunn, assignee of said Brown, has been returned by the post office as undeliverable, and counsel for Brown states that he has been unable to ascertain the present whereabouts of said Brown or of his assignee. Notice is hereby given that unless said Frank T. Brown, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 29, 1930

[VOL. 393. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly-Prepared Materials

Ser. No. 294,036. JENSEN AND CORBITT, Los Angeles, Calif. Filed Dec. 24, 1929.

METALOS-DECORATOS

For Ground Metal Ore—Namely, Marcasite.
Claims use since about Dec. 9, 1929.

Ser. No. 294,887. NATIONAL FUEL COMPANY, Denver, Colo. Filed Jan. 17, 1930.



The use of the word "Coal" is disclaimed.
For Coal.
Claims use since Nov. 10, 1929.

Ser. No. 294,938. WANA-BOKAY FLOWER GARDENS, Joplin, Mo. Filed Jan. 18, 1930.

WANA-BOKAY

The drawing is lined to indicate the color green.
For Bulbs, Plants, and Cut Flowers.
Claims use since Aug. 18, 1929.

Ser. No. 295,300. GEORGE E. HARVEY, doing business as Harvey Coal Company, Indianapolis, Ind. Filed Jan. 28, 1930.

"DOG-ON GOOD COAL"
HARVEY COAL CO.

All words except the expression "Dog-On" are disclaimed apart from the other features of the mark shown on the drawing. The representation of the lump of coal is also disclaimed.
For Coal.
Claims use since Sept. 12, 1929.

Ser. No. 295,452. ALDUR CORPORATION, Brooklyn, N. Y. Filed Feb. 1, 1930.

ALDUR

For Molding Powder Used for Molding Synthetic-Resin Articles.
Claims use since June 1, 1929.

Ser. No. 295,489. THE MACKIE-CLEMENS FUEL COMPANY, Pittsburg, Kans. Filed Feb. 1, 1930.



JAY HAWK COAL

The drawing is lined for color, the vertical lines representing red and the horizontal lines blue. No claim is made for the word "Coal" apart from the mark as shown in the drawing.
For Coal.
Claims use since Jan. 8, 1930.

Ser. No. 296,010. FUEL DISTRIBUTORS, INC., Cleveland, Ohio. Filed Feb. 14, 1930.

KENTUCKY COLONEL

For Coal.
Claims use since Feb. 4, 1928.

Ser. No. 296,458. UNITED ELECTRIC COAL COMPANIES, Chicago, Ill. Filed Feb. 24, 1930.



The exclusive use of the words "Clean Coals" is disclaimed except in connection with the mark as shown, and the horizontal lines indicate shading and the vertical lines are for the color red.
For Coal.
Claims use since July 1, 1928.

Ser. No. 296,510. ALBERENE STONE COMPANY, New York, N. Y. Filed Feb. 26, 1930.

ALBERENE

For Soapstone.
Claims use since July 8, 1890.

Ser. No. 296,535. MAINE COAL & DOCK, INC., Bangor, Me. Filed Feb. 26, 1930.

COAL
MEDDO
COAL

The exclusive use of the word "Coal" is disclaimed except in connection with the mark as shown.
For Coal.
Claims use since Oct. 1, 1929.

Ser. No. 296,668. OSAGE COAL COMPANY, Morgantown, W. Va. Filed Feb. 28, 1930.



The exclusive use of the word "Coal" is disclaimed except in connection with the mark shown.
For Coal.
Claims use since 1917.

Ser. No. 296,940. THE ACKERMAN COAL COMPANY, Toledo, Ohio. Filed Mar. 7, 1930.

DUSTLESS DEVIL
POCAHONTAS
"HOT AS HADES"

No claim is made for the word "Dustless" and "Pocahontas" apart from the mark as shown.
For Coal.
Claims use since Nov. 28, 1929.

Ser. No. 297,388. SYLVANIA INDUSTRIAL CORPORATION, New York, N. Y. Filed Mar. 15, 1930.

AQUAPHANE

For Sheets Made of Regenerated Cellulose.
Claims use since Feb. 27, 1930.

Ser. No. 297,526. FRANKLIN COUNTY COAL CO., Chicago, Ill. Filed Mar. 19, 1930.

TREASURE

For Coal and Coke.
Claims use since Feb. 24, 1930.

Ser. No. 297,567. JULIUS LOEWITH, INC., New York, N. Y. Filed Mar. 18, 1930.

STRAW CHALLENGER

For Peat Moss.
Claims use since Feb. 27, 1930.

CLASS 2

Receptacles

Ser. No. 279,761. SIBSON & STERN INC., Philadelphia, Pa. Filed Feb. 21, 1929.

SERV-US

For Clothes Sacks, Laundry Sacks, Vegetable Sacks, Ice Bags, Clothespin Aprons, Preserving Bags, String Bags, and Camphor Bags of Textile Material.
Claims use since Dec. 7, 1927.

Ser. No. 295,520. KEYES FIBRE COMPANY, INC., Waterville, Me. Filed Feb. 3, 1930.

SAVAPIE

For Plates, Dishes, Food Packing and Shipping Dishes and Their Parts Made from Paper Pulp or Fibre.
Claims use since Jan. 23, 1930.

Ser. No. 296,028. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 14, 1930.

CROSS COUNTRY

For Vacuum Outing Jugs and Canvas Water Bags.
Claims use since Jan. 13, 1930.

Ser. No. 296,029. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Feb. 14, 1930.

Economy

For Vacuum Outing Jugs.
Claims use since Jan. 15, 1930.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 293,045. HAMLEY & COMPANY, Pendleton, Oreg. Filed Nov. 29, 1929.



"Kit, Pendleton, Oregon" are disclaimed apart from the mark as shown.
For Leather Cases for Toilet Articles.
Claims use since May 15, 1929.

Ser. No. 296,824. ROSETH CORPORATION, Brooklyn, N. Y. Filed Mar. 4, 1930.

Travelette

For Valises, Hand Bags, and Trunks.
Claims use since March, 1929.

Ser. No. 297,546. STONE & GROPPER, INC., New York, N. Y. Filed Mar. 19, 1930.

Cinche

For Hand Bags.
Claims use since Jan. 2, 1930.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 279,862. THE MAJOR HENRY PRODUCTS COMPANY, East Hartford, Conn. Filed Feb. 25, 1929.

GI-TANIC

For Soaps and Cleaners for Windows, Dishes, Glass, Silverware, Painted Walls, Marble, Tile, and Wood Floors, Linoleum, and Furniture.
Claims use since June 15, 1926.

Ser. No. 294,720. E. E. FULTON CO., Chicago, Ill. Filed Jan. 13, 1930.

FULCO

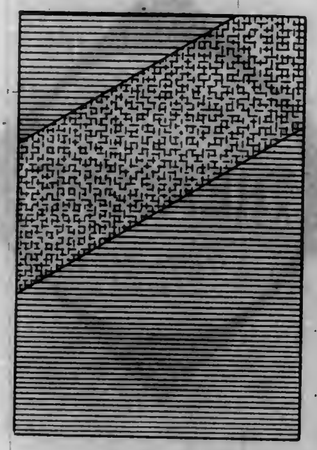
For Hand Cleanser, Window-Cleaning Cream; a Liquid Chemical Preparation for the Removal of Grease from Garage, Engine-Room, and Boiler-Room Floors, Automobile Motors, Undersides of Fenders of Automobiles, and the Chassis of Automobiles by Dissolving the Grease in the Liquid When It is Applied to the Surface to be Cleaned; Sanitary Cleaning Crystals of a Chemical Nature for Dry Scouring of Floors and/or for Use with Water to Scrub Floors, Sanitary Bowl Cleanser, Liquid Soap, Metal Polish, Silver and Nickel Renewer, and a Dry Cleaner.
Claims use since July, 1928.

Ser. No. 295,460. CEREAL SOAPS COMPANY INC., New York, N. Y. Filed Feb. 1, 1930.

Derbac

For Soap.
Claims use since September, 1920.

Ser. No. 295,637. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Feb. 5, 1930.



The colors blue and yellowish orange are an essential feature of applicant's mark and are indicated by the lining shown on the drawing.
For Soap.
Claims use since September, 1920.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 282,757. FREDERICK A. SCHWANNECKE, New Rochelle, N. Y. Filed Apr. 20, 1929.



For Eyebrow and Eyelash Grower, Paste Eye Shadow, and Powdered Eye Shadow.
Claims use since Jan. 1, 1929.

Ser. No. 283,219. THE R. H. PRODUCTS COMPANY, Spokane, Wash. Filed Apr. 29, 1929.

EZINOL

For Tablets for the Treatment of Headaches, Head Colds, and Neuralgia.
Claims use since Apr. 1, 1929.

Ser. No. 283,439. DORALDINA, INC., Hollywood, Calif. Filed May 3, 1929.

GYPSY LURE

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, After-Shaving Lotions, Face Powders, Talcum Powders, Pomades, Sachets, Hair Salves, Hair Elixirs, Dandruff Remedies, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Corn Salves, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since January, 1929.

Ser. No. 283,888. NATIONAL OIL PRODUCTS CO. INC., Harrison, N. J. Filed May 11, 1929.

SOLUTIZED

For Preparations of Animal, Vegetable, and Mineral Oils for Industrial Uses—Namely, Lubrication, Softening, Finishing, in the Manufacture of Leather, Textiles, Paper, &c.; and for Pharmaceutical Uses—Namely, Lotions, Pomades, Creams, &c., Where Water Emulsions of Certain Oils are Indicated in Such Uses.
Claims use since Dec. 29, 1928.

Ser. No. 286,001. HOWARD R. WEST, doing business as West Poultry Products Company, Martinsville, Ohio. Filed June 22, 1929.

COCCID-O-RID

For Medical Preparation Used in the Treatment of Diseases of Chickens.
Claims use since Apr. 1, 1929.

Ser. No. 286,820. ETON PRODUCTS INC., Newark, N. J. Filed July 9, 1929.

OXOIDS

For Antacid Tablets.
Claims use since June 12, 1929.

Ser. No. 288,568. LILLIAN ROBERTS, doing business as Roberts Company, Chicago, Ill. Filed Aug. 15, 1929.



For Hair Tonic and Ointment for the Hair.
Claims use since Apr. 10, 1929.

Ser. No. 289,988. CHARLES A. POWERS, doing business as Powers, Sloan & Co., Bloomfield, Iowa. Filed Sept. 19, 1929.



Applicant disclaims the use of the words "For Relief of" and "Nerves" apart from the mark shown.
For Medicine for the Relief of Nervous Disorders of the Human Body.
Claims use since May 3, 1929.

Ser. No. 290,786. LA VAY PRODUCTS COMPANY, New York, N. Y. and Hackensack, N. J. Filed Oct. 8, 1929.

La Vay

For Shampoo.
Claims use since May, 1929.

Ser. No. 291,225. FRANÇOIS ISOARD, Paris, France. Filed Oct. 18, 1929.

PAX-ICARD

The name "Icard" being disclaimed apart from the mark shown in the drawing.
For Special Chemical Product Disclosing the Death of Human Beings.
Claims use since Feb. 13, 1929.

Ser. No. 291,446. ETON PRODUCTS, INC., Newark, N. J. Filed Oct. 28, 1929.

YEASTEX

For Stimulant Tonic for the Digestive Tract.
Claims use since Sept. 12, 1929.

Ser. No. 292,154. BLACKMAN & BLACKMAN, INC., doing business as Premo Pharmaceutical Laboratories, New York, N. Y. Filed Nov. 8, 1929.

PREMO

The drawing is lined to show the color red.
For Amidopyrine, a Preparation Used as an Antiperiodic for Headaches and Neuralgia; Aspirin, a Preparation Indicated in the Treatment of Slight Headaches and Rheumatism; Barbital, a Preparation Used in the Treatment of Insomnia; Barbital Sodium, a Preparation Used in the Treatment of Insomnia; Cascara Sagrada Ext., a Tonic Laxative; Cinchophen, a Preparation Indicated in the Treatment of Rheumatism and Muscular Pain; Neo-Cinchophen, a Preparation Indicated in the Treatment of Rheumatism and Muscular Pain; Compound Cathartic, a Preparation Used as a Cathartic; Elixir Preminal, a Preparation Indicated in the Treatment of Nervousness and Insomnia; Hexamethylene, a Preparation Indicated in the Treatment of Kidney and Bladder Diseases; Ichthopremol, a Preparation Used in Ointments for Skin Diseases; Inhalants—Namely, Preparations Used for Treatment of Nasal or Head Colds; Phenobarbital, a Preparation Indicated in the Treatment of Nervousness and Insomnia; Sodium Phenobarbital, a Preparation Indicated in the Treatment of Nervousness and Insomnia; Premophen Pills, a Laxative; Protargol, a Preparation Used as an Antiseptic; Quinine Sulphate, a Preparation Used for Allaying Fever; Rhinitis Pills, a Preparation Used for Colds in the Head; Salipyrin, a Preparation Used for Reducing Fever; Silver Nucleinate, an Antiseptic; Soft Elastic Capsules, a Preparation Serving as an Antiseptic for Kidney and Bladder Treatment; Suppositories, a Preparation Used as a Vaginal Antiseptic or Hemorrhoidals for Pile Troubles; Syrup Premocol, a Preparation for Treatment of Coughs; Thymol Iodide, an Antiseptic Dusting Powder; Three Bromides, a Preparation for Treatment of Nervousness; Trional, a Preparation for Treatment of Insomnia; Yohimbin, a General Tonic.
Claims use since Feb. 1, 1929.

Ser. No. 294,781. SOCIETE DE L'INSTITUT DE SEROTHERAPIE HEMOPOIETIQUE, SOCIETE ANONYME, Romainville, France. Filed Jan. 14, 1930.

HÉMOSTYL

For Organic Serum Used for the Treatment of Diseases Affecting the Blood Supply.
Claims use since Mar. 8, 1926.

Ser. No. 295,383. NASHVILLE LABORATORIES INCORPORATED, Nashville, Tenn. Filed Jan. 30, 1930.

DANZIMO

For Ointment for the Treatment of Excess Dandruff, Dry Itching Scalp, and Psoriasis.
Claims use since Dec. 21, 1929.

Ser. No. 295,426. THE EDLIS BARBERS' SUPPLY CO., Pittsburgh, Pa. Filed Jan. 31, 1930.

Azur Dream

For Preparation to Set the Hair Waves, Preparation to Make the Hair Waves Stay; Liquid Preparation Used in Marcelling Hair, Preparation Used in Marcelling Hair in Stick Form, Liquid Brilliantine, Solid Brilliantine, Crystallized Brilliantine, Cucumber Cream, Lemon Cleansing Cream, Lemon Vanishing Cream, Lilac Vanishing Cream, Almond Cream, Skin and Tissue Cream, Beauty Cream, Rose Cold Cream, Whitening Cream Used for Bleaching Skin, Acne Cream, Finishing Cream, Astringent Cream, Hair-Wave Oil, Lemon Bleach Pack, Bleach paste, Scalp pomade, French Blueing Used for Shampooing White Hair, Muscle Oil, Follicle Lotion Used for the Scalp, Calmine Lotion Used for Whitening Skin, Medicated Hot Oil Used for Promoting Growth of Hair, Acne Lotion, Hair Pomade, Toilet Waters, Skin Cream, Henna Rinse, Lustrous-Permanent-Wave Oil, Rose Oil, Hair Tonic, Lemon Rinse, Shampoo, Milk Mask in the Form of a Liquid and Paste Preparation for Refining the Skin, Milk Lotion in the Form of a Liquid Preparation for Refining the Skin, Pore Cleanser in a Cream and Liquid Form Used for Cleansing the Pores of the Skin, Pine-Oil Preparation for Cleansing and Massaging the Skin, Astringent Lotion, Talcum Powder, Face Powder, Dusting Powder for Powdering the Skin After a Bath, Bath Crystals, Honey and Almond Lotion, Lemon Lotion, Lip Sticks, Rouge Compacts, Powder Compacts, Nail Polish, Finger-nail Polish-Removing Preparation Used for Removing Nail Polish, Cuticle-Removing Preparation Used for Removing the Cuticle Around the Finger Nails, Cuticle Oil, Paste Polish Preparation Used for Finger Nails, Nail-Polish Powder, Cuticle Cream, Nail White Powder, Nail White Paste, Liquid Perfume, Solid Perfume.
Claims use since January, 1919.

Ser. No. 295,769. EUGENE VELLNER, doing business as Eugene Vellner, Philadelphia, Pa. Filed Feb. 7, 1930.

Evenol

The border and the center of the drawing are lined to represent the colors yellow and blue.
For Oils and Greases for Textiles.
Claims use since on or about Mar. 15, 1929.

Ser. No. 295,814. THE SOCCO COMPANY, INC., Monroe, La. Filed Feb. 8, 1930.

SOCCO

"A KNOCKOUT"

For Medicinal and Pharmaceutical Preparation Containing the Salts of Calcium, Sodium, Magnesium, and Bismuth Combined in the Proper Proportions with Salol and Peppermint Used in the Treatment of Indigestion, Sour Stomach, Acidity, and Flatulency.
Claims use since June 15, 1929.

Ser. No. 295,956. GAETANO SANFILIPPO, Philadelphia, Pa. Filed Feb. 12, 1930.



The wording appearing on the drawing is disclaimed apart from the mark as shown. The portrait appearing in the drawing is fanciful.
For Javelle Water, Fluid to be Diluted in Water for Laundering Clothes.
Claims use since Jan. 28, 1930.

Ser. No. 296,016. A. W. KRETSCHMAR, INC., New York, N. Y. Filed Feb. 14, 1930.

THEPHYLDINE

For Medicinal Preparation Composed of Theophyllin-ethylene Diamine to be Used as a Diuretic.
Claims use since May, 1929.

Ser. No. 296,079. PLOUGH, INC., doing business as The St. Joseph's Laboratories, Memphis, Tenn. Filed Feb. 15, 1930.

LAX-ANA

For Laxative Medicinal Preparation in Liquid Form.
Claims use since 1909.

Ser. No. 296,433. NEODERM COMPANY, Los Angeles, Calif. Filed Feb. 24, 1930.

Epiplasm

For Medicinal Preparation to Protect the Body Surface and to Retard Early Decay and Degeneration of the Skin.
Claims use since Nov. 15, 1929.

Ser. No. 296,494. THE PACKER MANUFACTURING COMPANY, INC., New York, N. Y. Filed Feb. 25, 1930.

Scalptone

For Tonic for the Scalp.
Claims use since Feb. 7, 1930.

Ser. No. 296,505. VELVETEEN MANUFACTURING CORPORATION INCORPORATED, Danville, Va. Filed Feb. 25, 1930.

VELVETEEN

For Preparation for Removing Kinks from Human Hair.
Claims use since Jan. 1, 1927.

Ser. No. 296,525. KAR-BON-FOE CORPORATION, LTD., Pasadena, Calif. Filed Feb. 26, 1930.

KAR-BON-FOE

The term "Kar-Bon" is disclaimed apart from the mark as shown.
For Chemicals for Treating Combustible Fluids Such as Used in Internal-Combustion Engines to Soften and to Prevent Formation of Hard Carbon in Said Engines.
Claims use since August, 1928.

Ser. No. 296,562. CLARENCE E. HORN, doing business as No-B-O Co., Brooklyn, N. Y. Filed Feb. 26, 1930.

NO-B-O

For Liquid Odorless Deodorants.
Claims use since Nov. 1, 1929.

Ser. No. 296,570. HARRIET HUBBARD AYER, INC., New York, N. Y. Filed Feb. 27, 1930.

All for Beauty

The words "All for Beauty" are disclaimed except as a part of the composite trade-mark shown.

For Nongreasy, Finishing, Vanishing Cream; Cold Cream, Face Cream; Liquefying Cream, a Thin Cream Which Liquefies Upon Contact with the Skin and Removes Dirt and Dust from the Pores; Massage Cream; Skin and Tissue Builder, a Cream Intended to Nourish and Build Up the Skin Tissues; Muscle Oil for Treating Lines and Wrinkles.

Claims use since Oct. 7, 1929.

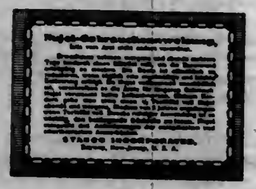
Ser. No. 296,725. APEX PRODUCTS CORPORATION, Chicago, Ill. Filed Mar. 3, 1930.

DAWN

For Bath Crystal and Water Softener.
Claims use since Feb. 13, 1930.

Ser. No. 296,832. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Mar. 4, 1930.





No claim is made to the printed language appearing upon the label, other than the words "Nujol" and "Stanco Incorporated." No claim is made to the representation of a label per se. The drawing is lined for shading purposes only.

For Mineral Oil for Chemical, Medicinal, and Pharmaceutical Purposes.

Claims use since Dec. 20, 1929.

Ser. No. 296,833. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed Mar. 4, 1930.



The drawing is lined for shading purposes only. No claim is made to the carton per se or to the printed matter, other than the words "Nujol" and "Stanco Incorporated."

For Mineral Oil for Chemical, Medicinal, and Pharmaceutical Purposes.

Claims use since Dec. 20, 1929.

Ser. No. 297,156. SOCIETE DES LABORATOIRES DES PROXYTASES, SOCIETE ANONYME, Paris, France. Filed Mar. 11, 1930.

ANGIOXYL

For Medicinal Preparation in Liquid and Powder Form for Diseases of the Heart and Arteries and for Treating Angina Pectoris, Arteritis, and Varicose Ulcers.
Claims use since Jan. 24, 1929.

Ser. No. 297,288. J. W. SPENCER, doing business as Hygienic Laboratories, New Orleans, La. Filed Mar. 13, 1930.

VAGITABS

For Antiseptic, Germicidal, and Therapeutic Composition of the Type Employed for Vaginal Douching.
Claims use since May 1, 1929.

Ser. No. 297,284. J. W. SPENCER, doing business as Hygienic Laboratories, New Orleans, La. Filed Mar. 13, 1930.

GYNOSAN

For Antiseptic, Germicidal, and Therapeutic Composition of the Type Employed for Vaginal Douching.
Claims use since May 1, 1929.

Ser. No. 297,298. ARTHUR H. COX & CO., LIMITED, Brighton, England. Filed Mar. 14, 1930.

PEROXTIK

For Solidified Peroxide of Hydrogen.
Claims use since Nov. 30, 1929.

Ser. No. 297,314. H. A. METZ LABORATORIES, INC., New York, N. Y. Filed Mar. 14, 1930.

GRAVOCAIN

For Anesthetic.
Claims use since Feb. 25, 1930.

Ser. No. 297,319. NATIONAL BEAD CO., INC., New York, N. Y. Filed Mar. 14, 1930.

SYCIRÉ

For Liquid Dressings and for Coating Compounds Which, When Applied to Fabrics, Lace, Felt, Hair, Straws, Feathers, and the Like, Imparts Stiffening and Lustre.
Claims use since about June, 1929.

Ser. No. 297,331. RÖHM & HAAS COMPANY, Philadelphia, Pa. Filed Mar. 14, 1930.

ETONAL

For Chemicals in the Nature of Waterproof Lacquers for Use on Leathers and Artificial Leathers.
Claims use since Sept. 18, 1929.

Ser. No. 297,340. VON WINKLER LABORATORIES, INC., Chicago, Ill. Filed Mar. 14, 1930.

VONARGEN

For Pharmaceutical Composition for the Treatment of Skin Diseases, Burns, Cuts, Wounds, Sunburns, and Scalds.
Claims use since Jan. 22, 1930.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 296,803. LEO R. EVELIN, Philadelphia, Pa. Filed Mar. 4, 1930.

DE-NICO

For Cigarette Holders; Pellets, in Cotton or Asbestos Fibre, for Cigarettes; Cigar Holders; and for Tobacco-Smoking Pipes.
Claims use since 1920.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 296,750. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Mar. 3, 1930.

Country Club



For Matches.
Claims use since Dec. 1, 1928.

CLASS 11

Inks and Inking Materials

Ser. No. 295,624. JAMES PHILIP KRUESE, Niagara Falls, N. Y. Filed Feb. 5, 1930.

PRINTONIC

For Fixative for Printing Ink.
Claims use since Jan. 4, 1930.

Ser. No. 296,779. HARRY M. SKLAR, Brooklyn, N. Y. Filed Mar. 3, 1930.

SKLAR'S
WRITING
INK

No claim is made to the words "Writing Ink" apart from the mark shown on the drawing.

For Writing and Stamping Ink.
Claims use since Feb. 25, 1930.

CLASS 12

Construction Materials

Ser. No. 277,804. THE KAWNEER COMPANY, Niles, Mich. Filed Jan. 10, 1929.

Kawneer

For Store-Front Window Constructions, Metal Window Constructions, Store Fronts, Store-Front Constructions; Store-Front Constructions Having Ventilators, Bulkheads, Doors, Windows, Transoms; Metal Vestibules for Store-Front Constructions, Store-Front Vestibules, and Mouldings and Metal Constructional Parts for the Above Structures.

Claims use since February, 1922.

Ser. No. 288,115. EVENS & HOWARD FIRE BRICK CO., St. Louis, Mo. Filed Aug. 5, 1929. Under 10-year proviso.

EVENS HOWARD

For Fire Brick.
Claims use since 1857.

Ser. No. 289,336. CENTURY CEMENT CORPORATION, Rosendale, N. Y. Filed Sept. 5, 1929.



The word "Cement" is disclaimed except in association with the other features of the mark.
For Cement for Construction Work.
Claims use since on or about Aug. 23, 1929.

Ser. No. 295,416. THE BARRETT COMPANY, New York, N. Y. Filed Jan. 31, 1930.



For Heat and Sound Insulating Felt, Bituminous Cements, and Plaster Board.
Claims use since on or about Jan. 1, 1910, on heat and sound insulating felt; on or about Jan. 1, 1889, on bituminous cements; on or about Jan. 1, 1910, on plaster board.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 280,659. J. MOHAMMAD ALI, INC., New York, N. Y. Filed Mar. 18, 1929.



No claim is made to the words "Made in India for" apart from the mark as shown.
For Brass Goods—Namely, Trays, Vases, and Bowls.
Claims use since Sept. 1, 1926.

Ser. No. 286,800. SPIC & SPAN STORES INC., Topeka, Kans. Filed July 8, 1929.



For Casement, Clothesline, Screen, Storm-Sash, and Transom Adjusters; Door and Window Antirattlers, Towel Bars, Washbasins, Frying Baskets, Chain-Link Belting, Chain Conveyor Belting, Stove Boards; Coffee, Rice, and Vegetable Boilers; Carriage, Expansion, Plow, and Stove Bolts; Screen-Door Braces, Door Bumpers, Riveting Burrs, Door Butts, Oil-Well and Well Casings, Aluminum and Enameled-Steel Casseroles, Furniture Casters, Stove Casters; Coil, Dog, Jack, Ladder, Log, and Tire Chains; Base-Metal Cream Coolers, Milk Coolers, Dish Covers; Aluminum, Enameled-Steel, and Tin Cups; Base-Metal and Enameled-Steel Baking, Chafing, Cooking, Fern, Relish, Soap, and Vegetable Dishes; Metal Fence, Fixed Stock and Poultry Fountains, Lawn Fountains; Base-Metal Baking Dish, Casserole, Pie-Dish, and Vegetable-Dish Frames; Funnels, Metal Gates, Clothesline Hooks, Picture Hooks, Waffle Irons; Aluminum and Enameled-Steel Convex, Milk, Preserving, and Tea Kettles; Camper's Cooking Pot and Pan Kits; Fountain, Hose, and Sprinkling Nozzles; Chamber Pails; Baking, Biscuit, Bread, Cake, Cookie, Corn-Cake, Dish, Drip, Dust, Frying, Milk, Muffin, Pie, Pudding, Refrigerator, Rinsing, Roasting, and Sauce Pans; Coffee Percolators, Cotter Pins, Base-Metal Pitchers; and Cake, Dinner, Pie, Sandwich, and Soup Plates; Coffeepots, Teapots; Base-Metal Bean, Cooking, Sauce, and Stock Pots; Clothesline Reels; Aluminum, Steel, and Enameled-Steel Roasters; Coffee, Milk, Milk-Can, Soup, and Tea Strainers; Bread and Sandwich Toasters; Aluminum, Enameled-Steel, Nickel-Plated, and Tin Bread, Crumb, Serving, and Household Trays; Foot Tubs, Infants' Bathtubs, and Laundry Trays.
Claims use since Feb. 15, 1929.

Ser. No. 287,135. GUSTAV FRIEDRICH GERDTS, Bremen, Germany. Filed July 15, 1929.

Gestra

For Steam and Water Valves, Blow-Off Valves, Steam Traps, Nozzles, Piping, Unions, Couplings, Expansion Joints.
Claims use since Jan. 5, 1913.

Ser. No. 295,340. ALEXANDER MERDAN, New York, N. Y. Filed Jan. 29, 1930.



No claim is made to the words "Trade Mark" and "Gas Safety Control" apart from the mark shown on the drawing.
For Automatic Safety Valve for Gas Burners.
Claims use since Jan. 9, 1930.

Ser. No. 295,731. THE ENTERPRISE ALUMINUM COMPANY, Massillon, Ohio. Filed Feb. 7, 1930.

Tea-O-lator

No claim is made to the exclusive use of the descriptive term "Tea" apart from the mark shown in the drawing.
For Aluminum Device for Making Tea.
Claims use since Jan. 31, 1930.

Ser. No. 296,000. CRESCENT BRASS AND PIN COMPANY, Detroit, Mich. Filed Feb. 14, 1930.

SIMPLEX

For Nails.
Claims use since Mar. 25, 1908.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 286,740. THE BOWLER FOUNDRY COMPANY, Cleveland, Ohio. Filed July 8, 1929.

BOWLERITE METAL

No claim being made to the word "Metal" apart from the mark as shown.
For Iron of Special Composition, of Great Tensile Strength, and of Little Increase in Volume Upon Alternate Heating and Cooling and for Ferrous Castings.
Claims use since June 18, 1929.

Ser. No. 296,138. NEW ENGLAND HIGH-CARBON WIRE CO., Millbury, Mass. Filed Feb. 17, 1930.

Newco

For Spring Wire.
Claims use since Nov. 30, 1929.

Ser. No. 297,192. HERAEUS-VACUUMSCHMELZE AKTIENGESELLSCHAFT, Hanau-on-the-Main, Germany. Filed Mar. 12, 1930.

CONTRACID

For Noncorrodible Alloys, Containing Nickel and Chromium, Especially an Alloy of This Character Melted in Vacuo.
Claims use since April, 1926.

CLASS 15

Oils and Greases

Ser. No. 280,477. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Sept. 7, 1929.



In the drawing the horizontal lines indicate a blue color and the broken cross lines indicate a yellow color. No claim is made to the words "Aviation Gasoline" apart from the mark shown in the drawings.
For Gasoline.
Claims use since July 25, 1929.

Ser. No. 292,704. AMERICAN MINERAL SPIRITS CO., Chicago, Ill. Filed Nov. 22, 1929.

KEMSOLENE

For Naphtha.
Claims use since May, 1927.

Ser. No. 292,706. AMERICAN MINERAL SPIRITS CO., Chicago, Ill. Filed Nov. 22, 1929.

LACTOL

For Naphtha.
Claims use since July, 1926.

Ser. No. 293,125. AMERICAN MINERAL SPIRITS CO., Chicago, Ill. Filed Dec. 2, 1929.

VARNO

For Naphtha.
Claims use since May 26, 1926.

Ser. No. 293,126. AMERICAN MINERAL SPIRITS CO., Chicago, Ill. Filed Dec. 2, 1929.

NAPHTHOLITE

For Naphtha.
Claims use since Oct. 4, 1924.

Ser. No. 294,177. POLYGON PRODUCTS CO., Boston, Mass. Filed Dec. 28, 1929.

LUBRI-TASGON

For Penetrating Oil and Rust-Dissolving Lubricant.
Claims use since Dec. 5, 1929.

Ser. No. 294,845. CRAVEROILER COMPANY OF AMERICA, Philadelphia, Pa. Filed Jan. 16, 1930.

CRAVER-RUN-IN-OIL

No claim being made to the word "Oil" apart from the mark as shown.
For Lubricating Oils.
Claims use since Nov. 1, 1929.

Ser. No. 295,631. FRANCIS EDWARD MARTIN, doing business as F. E. Martin & Co., Lake Bluff, Ill. Filed Feb. 5, 1930.



The words "Metallic Lubricants" are disclaimed except in association with the other features of the mark.
For Lubricating-Oil Compounds.
Claims use since July 15, 1924.

Ser. No. 296,830. STANAVO SPECIFICATION BOARD, INC., New York, N. Y. Filed Mar. 4, 1930.



For Refined, Semi-Refined and Unrefined Oils and Greases Made from Petroleum, Both with and without Admixture of Animal, Vegetable, or Mineral Substances for Illuminating, Burning, Power, Fuel, and Lubricating Purposes, Especially Aviation Fuels and Lubricants.
Claims use since July 13, 1929.

Ser. No. 296,878. NEW YORK LUBRICATING OIL COMPANY, New York, N. Y. Filed Mar. 5, 1930.



For Lubricating Oils for Machinery, Engines, Motors, and Dynamos.
Claims use since May 3, 1928.

CLASS 16

Paints and Painters' Materials

Ser. No. 258,495. REPUBLIC PAINT & VARNISH WORKS, Chicago, Ill. Filed Dec. 5, 1927.

PUBLIC GUARANTEED SERVICE PRODUCTS

No claim being made to the words "Public Service Guaranteed Products" apart from the mark shown.
For House Paint, Barn Paint, Velvet-Finish Wall Paint; Blackboard Slating—Namely, a Liquid Finish for Blackboards in the Nature of Paint; Bridge and Structural Paint, Aluminum Enamel, Gold Enamel, Bronzing Liquid, Japan Driers, Varnishes, Japans, and Architectural Finishing Paints, Colors in Oil, Enamel Undercoating, Architectural Finishing Paint Enamels, Screen Enamel, Stovepipe Enamel, Mill-White Paints, Paint and Varnish Remover, Pure Asphalt Roof Paint, Prepared Shellac, Wagon and Implement Enamel, Smokestack and Boiler Paint, Anticorrosion Paint Coating, Roof Primer, All-Purpose Paint Enamel, Floor and All-Purpose Varnish, Varnish Stain, Motor-Car Enamel, Linoleum Varnish, Touch-Up Black Paint.
Claims use since Nov. 18, 1918.

Ser. No. 276,585. JAMES H. TARR COMPANY, LTD., Gloucester, Mass. Filed Dec. 11, 1928.



No claim being made to the word "Tarr's" apart from the mark shown on the drawing.
For Paints—Namely, Preservative Paints for the Bottoms of Vessels.
Claims use since 1899.

Ser. No. 284,546. VILAS W. RIGDON, doing business as Rigdon Products Co., San Diego, Calif. Filed May 23, 1929.

DUO-LAC

No claim is made for the word "Lac" separate and apart from the mark as shown.
For Automobile Paint.
Claims use since Dec. 22, 1926.

Ser. No. 289,782. CARNITT ROSTSCHUTZ- UND FARBSTOFF-GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Breslau, Germany. Filed Sept. 14, 1929.

Siraqua

For Paints in Ready-Mixed Form and Varnish.
Claims use since September, 1928.

Ser. No. 291,870. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Oct. 21, 1929.

USG

Applicant is the owner of registration No. 201,784.
For Paint Colors and Plastic Paint.
Claims use since Mar. 5, 1924, on plastic paint products and since August, 1929, on paint colors.

Ser. No. 295,347. PRATT & LAMBERT, INC., Buffalo, N. Y. Filed Jan. 29, 1930.



The trade-mark consists of a red disc surrounded by a gold border and bearing the "P & L" monogram in white on the red background, which colors are claimed as features of the mark.
For Varnishes, Paint Enamels, Lacquers, Oil-Base and Lacquer-Base Primers, Oil-Base and Lacquer-Base Surfacers, Oil-Base and Lacquer-Base Glazing and Knifing Putties, Enamel Undercoatings, Cement Undercoatings, Primers for Plaster Walls; Dry, Ready-Mixed, and Paste Paints; Water Stains, Acid Stains, Oil Stains, Bensol Stains, Japans, Liquid Fillers, Paste Fillers, Oil Driers, Japan Driers, Paint and Varnish Removers.
Claims use since May 7, 1928.

Ser. No. 296,332. WILLIAM A. GATKE, Richmond Hill, N. Y. Filed Feb. 21, 1930.

GERMATEX
A SANITARY WALL FINISH
MANUFACTURED BY
WM. A. GATKE RICHMOND HILL N.Y.

Applicant disclaims all the wording on the drawing with the exception of the term "Germatex."
For Plastic Paints in Powder Form.
Claims use since Dec. 1, 1929.

Ser. No. 296,429. JOHN W. MASURY & SON, Brooklyn, N. Y. Filed Feb. 24, 1930.

STEADFAST

For Ready-Mixed Paints, Lacquers, and Varnishes.
Claims use since Feb. 10, 1930.

Ser. No. 297,038. VALENTINE & COMPANY, New York, N. Y. Filed Mar. 8, 1930.



For Ready-Mixed Paints, Varnish Stains, and Varnish Enamels.
Claims use since about Feb. 1, 1930.

CLASS 17

Tobacco Products

Ser. No. 297,161. THE TOBACCO REHANDLING CO., LTD., doing business as W. T. Grant & Co. Branch, Louisville, Ky. Filed Mar. 11, 1930.

AL

For Leaf Tobacco.
Claims use since Sept. 8, 1927.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 296,309. THE AEOLIAN COMPANY, Meriden, Conn., and New York, N. Y. Filed Feb. 21, 1930.

AEOLIAN

For Motor Boats.
Claims use since on or about May 20, 1929.

Ser. No. 296,736. H. H. FRANKLIN MANUFACTURING COMPANY, Syracuse, N. Y. Filed Mar. 3, 1930.

TRAVELMOUSINE

For Automobiles and Structural Parts Thereof.
Claims use since Jan. 2, 1930.

Ser. No. 296,997. ANDERSON MANUFACTURING COMPANY, Cambridge, Mass. Filed Mar. 8, 1930.



For Vehicle Spring Covers.
Claims use since Jan. 22, 1930.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 266,513. BUCYRUS-ERIE COMPANY, Milwaukee, Wis. Filed May 17, 1928.

BUCYRUS ERIE

For Portable-Electric-Lighting Plants, Motor Generators, Cables for Carrying Electric Current, and Repair, Spare, and Replacement Parts for the Goods Specified.
Claims use since January, 1928.

Ser. No. 278,495. HOT-N-KOLD CORPORATION, San Francisco, Calif. Filed Oct. 8, 1928.

Hot-N-Kold

The lining on the drawing is to indicate shading only.
For Electric Air Heaters and Parts Therefor, Electric Ranges and Parts Therefor, Electric Water Heaters and Parts Therefor.
Claims use since Dec. 20, 1927.

Ser. No. 278,922. THE BALDWIN COMPANY, Cincinnati, Ohio. Filed Feb. 6, 1929. Under section 5b of the act of 1905 as amended in 1920.

Baldwin

For Radio Receiving Sets and Loud-Speakers, Antennæ, Transformers, Induction Coils, Tube Sockets, Resistance Units, Rheostats, Condensers, and Loading Coils, Choke Coils, Inductances and Resistance Devices, Inductive and Noninductive for Use in Connection Therewith.
Claims use since Jan. 28, 1929.

Ser. No. 285,208. I-T-E CIRCUIT BREAKER COMPANY, Philadelphia, Pa. Filed June 7, 1929.

ITE

For Automatic Electrical Switches; Automatic Circuit Breakers; Automatic Magnetic Circuit Breakers; Nonclosable and Double-Arm Automatic Circuit Breakers; Electric Switches; Electric Switch Gear; Control Switches; Rheostats; Alternating and Direct Current Motor Starters and Controllers; Electric-Motor-Control Apparatus; Alternating and Direct Current Motor Control Systems; and Alternating and Direct Current Motor Protective Apparatus; Dynamic Brakes; Limit Switches; Time-Limit Apparatus; Inductive Time-Limit Control Apparatus; Inductive Time-Limit Apparatus for Controlling Electric Switches, Contactors, and Automatic Circuit Breakers; Inductive Time-Limit Motor-Control Apparatus; Inductive Time-Limit Switches and Contact Making and Breaking Apparatus; Relays; Overload Relays; No and Low Voltage Relays; Time-Limit Relays; Inductive Time-Limit Relays; Motor-Control Relays; Induction Relays; Alternating and Direct Current Generator Control and Protective Apparatus; Generator Switches; Generator Field Switches; Generator Relays; Magnetic and Motor Controlled and Actuated Switches and Contact Making and Breaking Apparatus for Alternating and Direct Current Generators and Generator Circuits; Motor-Operated Apparatus for Generator Field Rheostats and for Automatic Circuit Breakers and Automatic Time-Limit Circuit Breakers Responsive to Overload, No Voltage, Low Voltage, Voltage Difference, and Reverse Current, for Controlling and Protecting Alternating and Direct Current Generators, Motors, Electric Circuits, and Generator and Motor Circuits; Transfer Switches; Automatic Transfer Switches; Motor and Magnetically Actuated and Controlled Transfer Switches; Switches; Automatic Circuit Breakers; Overload, Underload, and Reverse-Current Circuit Breakers for Controlling Storage Batteries and Storage-Battery Circuits; Remote Electrical Control Apparatus; Remotely-Controlled Motor, Magnetically, Pneumatically, and Electropneumatically Operated Switches, Contact Making and Breaking Apparatus, and Automatic Circuit Breakers; Remotely-Controlled Motor, Magnetically, and Electropneumatically Operated Power-Applying Apparatus; Electropneumatic Valves for Electropneumatically-Operated Apparatus; Electropneumatic Damper-Operating Apparatus; Transformers; Mechanically and Electrically Interlocked Switches, Contact Making and Breaking Apparatus, and Automatic Circuit Breakers for Controlling the Sequence of Their Operation; and Apparatus for Manual Remote Control of Switches and Automatic Circuit Breakers.
Claims use since February, 1897.

Ser. No. 289,150. GRAHAM AMPLION LIMITED, Slough and London, England. Filed Aug. 29, 1929.

LION

For Telephonic and Wireless Loud-Speakers.
Claims use since Sept. 21, 1928.

Ser. No. 289,527. LUMITONE CORPORATION OF AMERICA, St. Charles, Ill. Filed Sept. 9, 1929.

LUMITONE

For Equipment for the Remote Electric (or Combined Electric and Pneumatic) Control, Either Manually or Automatically Operated, of Color Effects in Electric-Lighting Systems for Theatre, Industrial, and Similar Uses.
Claims use since May 24, 1929.

Ser. No. 290,034. SAYLOR ELECTRIC & MANUFACTURING COMPANY, Detroit, Mich. Filed Sept. 20, 1929.



The word "Duct" and the representation of the goods are disclaimed apart from the mark as shown in the drawing.

For Nonmetallic Electrical Conduit.

Claims use since Jan. 1, 1916.

Ser. No. 291,827. DULCETTO-POLYPHON LIMITED, London, England. Filed Oct. 21, 1929.

DULCETTO

For Wireless Receiving Sets, Thermionic Amplifiers, Wave Traps, Volume Controls, Crystals and Crystal Detectors, Inductance Coils, Transformers, Thermionic Valves, Thermionic Valve Holders, Condensers, Grid Leaks, Resistances, Switches, Connectors, Plugs, Head Phones, Loud-Speakers, Coil Holders, Variometers, Loose Couplers, Batteries, Insulators, and Aerials.

Claims use since August, 1928.

Ser. No. 292,132. THE VOISOPHONE COMPANY, Wausau, Wis. Filed Nov. 7, 1929.



No claim is made to the exclusive right to the use of the words "Voice, Sound," and "Music" apart from the mark shown in the drawing.

For Unitary Phonographic Reproducing Apparatus for Use with Moving-Picture-Projection Apparatus.

Claims use since June 1, 1929.

Ser. No. 293,059. MONARK BATTERY COMPANY, Chicago, Ill. Filed Nov. 29, 1929.



Applicant disclaims the word "Superior" apart from the mark shown in the drawing.

For Storage Batteries.

Claims use since September, 1919.

Ser. No. 293,823. THE ILER ELECTRICAL MANUFACTURING CO., Warren, Ohio. Filed Dec. 6, 1929.



No claim is made to the exclusive use of the words "The" and "Line" apart from the mark shown in the drawing.

For Fittings, Boxes, and Attaching Devices and Conduit Used in Electrical Wiring Systems.

Claims use since June 14, 1929.

Ser. No. 293,825. L. E. FITE, doing business as Nightingale Radio Manufacturing Company, Memphis, Tenn. Filed Dec. 18, 1929.

NIGHTINGALE

For Radio Receiving Sets.

Claims use since Oct. 26, 1929.

Ser. No. 295,785. DELTA-STAR ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 8, 1930.



For Cable Terminators, Oil Circuit Breakers, Switch-Gear Assemblies.

Claims use since January, 1929.

Ser. No. 296,093. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Feb. 15, 1930.

Western Electric SOUND SYSTEM
The VOICE of ACTION

Applicant disclaims the words "Sound System" apart from the mark as shown on the drawing.

For Electrical Systems for Reproducing, Amplifying, and Projecting Sound from Records of the Phonograph Type or Films and Parts Thereof—Namely, Assembled Amplifier Units, Synchronizing Motors, Inverted Converters, Photoelectric Cells, Electromagnetic Pick-Ups, Amplifying Horns and Magnets Thereof, Sound Gate Consisting of an Apertured Plate and Pressure Pad, Apparatus Units Consisting of Equalizers and Attenuators, and Sound Units Comprising a Source of Light, a Lens Tube, Drive Sprockets, an Apertured Film Guide, and a Photoelectric Cell.

Claims use since Mar. 11, 1929.

Ser. No. 296,620. WESTINGHOUSE LAMP COMPANY, Bloomfield, N. J. Filed Feb. 27, 1930.

WL-706

For Vacuum or Gas-Filled Tubes, and Particularly for Voltage-Regulator Tubes.

Claims use since Oct. 28, 1929.

Ser. No. 296,962. FIRESTONE BATTERY COMPANY, Akron, Ohio. Filed Mar. 7, 1930.

SENTINEL

For Storage Batteries.

Claims use since Feb. 14, 1930.

Ser. No. 297,140. LYONS STORAGE BATTERY CO., Belleville, N. J. Filed Mar. 11, 1930.

ETHYL

For Storage Batteries.

Claims use since Mar. 3, 1930.

Ser. No. 297,185. FIRESTONE BATTERY COMPANY, Akron, Ohio. Filed Mar. 12, 1930.



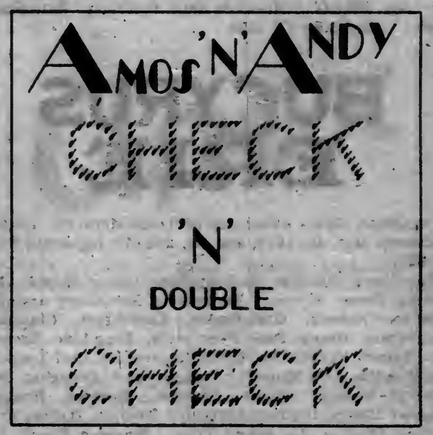
For Storage Batteries.

Claims use since on or about Feb. 14, 1930.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 296,467. AMOS 'N' ANDY DOLL CO., New York, N. Y. Filed Feb. 25, 1930.



For Dolls.

Claims use since Jan. 25, 1930.

Ser. No. 296,749. KIRBY, BLOCK & FISCHER, INC., New York, N. Y. Filed Mar. 3, 1930.

BUDDY

For Golf Balls.

Claims use since Nov. 26, 1929.

Ser. No. 297,353. CHARLES F. BAKER & CO. INC., Boston, Mass. Filed Mar. 15, 1930.

HOLEFAST

For Golf Tees.

Claims use since Mar. 1, 1930.

Ser. No. 297,594. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y. Filed Mar. 20, 1930.

BLACK BEAUT

For Golf Balls.
Claims use since Feb. 15, 1930.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 266,512. BUCYRUS-ERIE COMPANY, Milwaukee, Wis. Filed May 17, 1928.

BUCYRUS ERIE

Applicant claims ownership of Trade-Mark No. 120,945 registered Mar. 19, 1918, and No. 202,679 registered Sept. 1, 1925.

For Power Shovels, Railway-Type Power Shovels, Revolving Power Shovels; Excavating Machinery and Excavators—Namely, Grab-Bucket Excavators, Clamshell Excavators, Orange-Peel Excavators, Drag-Line Excavators, Trench Excavators, Tower Excavators, Coal Loaders, Coal-Loading Machinery; Dredges and Dredging Machinery—Namely, Dipper Dredges, Elevator Dredges, Alluvial Mining Dredges, Clamshell Dredges, Hydraulic or Suction Dredges, Unloading Plows, Spreader Plows, Unloading Machines; Cranes—Namely, Traveling Cranes, Railway Wrecking Cranes, Railway Breakdown Cranes; Pile Drivers—Namely, Railway-Locomotive Pile Drivers, Railway Pile-Driving Machines, Floating Pile Drivers; Pumps—Namely, Pumps for Excavating Purposes, Liquid Pumps, and Air Pumps; Hoists—Namely, Power-Operated Hoists, Manually-Operated Hoists, and Power Boom Hoists; Derricks, Power-Operated Derricks, Manually-Operated Derricks, and Mobile Derricks; Lifting Magnets, Winches, Air Compressors, Fans, Steam Engines, Creeping Traction Mechanism, Revetment Plants, Force-Feed Lubricators, Rollers for Use with Machines Mounted on Skids, Hydraulic Jacks, Ratchet Jacks, Injectors, Dipper Trips, Fuel Hoists, Lifting Beams, Dredge Buckets, Grab Buckets, Clamshell Buckets, Orange-Peel Buckets, Drag Buckets, Excavating Dippers, Dipper Teeth, Automatic Stokers for Steam Boilers, Steering Wheels; and Repair, Spare, and Replacement Parts for the Specified Goods; Such of the Foregoing as are Power-Operated Being Operated by Steam Power, Electrically-Operated, Gasoline-Engine Power, Diesel-Engine Power, Semi-Diesel-Engine Power, or Other Power.
Claims use since January, 1928.

Ser. No. 268,901. AKTIENGESELLSCHAFT FÜR FEINMECHANIK VORMALS JETTER & SCHEERER, Tuttlingen, Germany. Filed June 30, 1928.

JESCO

For Pocket Knives; Knives, Forks, and Spoons of Base Metals for the Table; Kitchen Knives, Hunting Knives, Leather-Cutting Knives, Razors, Scissors, Shears, Metallic Knife Sharpeners, Pinchers, Tweezers, Wrenches, Monkey Wrenches, Screw Drivers, Cigar Cutters, Corkscrews, Metallic Coasters, and Axes.
Claims use since Feb. 14, 1928.

Ser. No. 284,826. THE STANLEY WORKS, New Britain, Conn. Filed May 29, 1929.

One Hundred Plus

For Hammers.
Claims use since Jan. 21, 1927.

Ser. No. 295,513. CARTER F. HALL, doing business as Arctic-Aire Company, Inc., Baltimore, Md. Filed Feb. 8, 1930.

ARCTIC-AIRE

For Turbines, Compressors, Pumps, and Parts of the Same.
Claims use since August, 1929.

Ser. No. 295,775. WESTERN LAND ROLLER COMPANY, Hastings, Nebr. Filed Feb. 7, 1930.

WESTERN SPROCKET PACKER

The representation of the goods and the words "Sprocket" and "Packer" are disclaimed apart from the mark as shown.
For Land Rollers.
Claims use since Jan. 11, 1930.

Ser. No. 296,047. J. I. CASE COMPANY, Racine, Wis. Filed Feb. 15, 1930.



For Agricultural Machinery, Implements, Farm-Operating Equipment, and Parts Thereof—Namely, Tractors, Including Farm Tractors, Orchard Tractors, Road Tractors, Industrial Tractors, and Tractors for General Purposes; Portable Engines, Skid Engines; Threshing Machines, Including Grain Treshers, Rice Threshers, Pea and Bean Threshers, Clover and Alfalfa Threshers, Peanut Threshers, Straw Stackers, Self Feeders, Elevators, and Baggers; Combination Harvester-Threshers, Including Prairie Combines, Hillside Combines, Grain Bins, Windrow Harvesters, and Pick-Up Attachments; Silo Fillers; Baling Presses for Hay, Straw, and Other Materials; Plows, Including Walking Plows, Riding Plows, Gang Plows, Two-Way Plows, Tractor Plows, Brush-Breaker Plows, Marsh Plows, Riding Disk Plows, Tractor Disk Plows, Wheatland Disk Plows, and Plows for All Purposes; Harrows, Including Spike-Tooth Harrows, Spring-Tooth Harrows, Clod Crushers, and Harrows for All Purposes; Harrow Carts; Cultivators, Including Walking Cultivators, Riding Cultivators, Corn Cultivators, Cotton Cultivators, Beet Cultivators, Lister Cultivators, Cultivators Generally, and Cultivator Attachments for Tractors; Field Tillers, Orchard Tillers, Cotton Choppers; Listers, Including Riding Listers and Wheatland Listers; Corn Shellers; Planters, Including Riding Cotton Planters, Riding Corn Planters, Walking Cotton Planters, Walking Corn Planters, and Planters for Other Purposes; Grain Drills, Including Plain Drills, Fertilizer Drills, Deep-Furrow Drills, Press Drills, Seeders, Lime and Fertilizer Sowers; Grain Binders; Corn Binders, Including Tall Binders, Short Binders, and Regular Binders; Corn Huskers and Shredders, Corn Harvesters, Cotton Harvesters; Rakes, Including Hay Rakes, Cornstalk or Heavy-Duty Rakes, Dump Rakes, Side-Delivery Rakes, and Tedders; Mowers, Hay Loaders, Feed Grinders, Beet Pullers, Manure Spreaders, Stalk Cutters, Fuel and Water Tenders, Middle Breakers, Ridge Busters, Rotary Hoes, and Parts of All Said Machinery, Implements, and Farm-Operating Equipment.
Claims use since Dec. 20, 1929.

Ser. No. 296,235. THE PRATT CHUCK COMPANY, Frankfort, N. Y. Filed Feb. 19, 1930.

DYNAMIC

For Exhaust Mufflers.
Claims use since Feb. 1, 1930.

Ser. No. 296,460. WICKSTROM & CO. INC., Chicago, Ill. Filed Feb. 24, 1930.

UNION JACK SYSTEM CHICAGO, ILL.

The words "Jack, System, Chicago, Ill." are hereby disclaimed apart from the mark as shown in the drawing.
For Automobile Jacks.
Claims use since Oct. 1, 1929.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 286,918. THE APEX ELECTRICAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed July 11, 1929.

Apex

For Instruments and Meters—Namely, Ammeters, Voltmeters, Wattmeters, Tachmeters, and Electric Time-Switch Meters.
Claims use since Aug. 15, 1913.

Ser. No. 290,973. LOUIS H. SCADRON, New York, N. Y. Filed Oct. 11, 1929.

"NATIONAL"

For Optical Instruments, Such as Ophthalmometers, Retinoscopes, Skiascopes, Lens Measures, and Ophthalmoscopes; Lenses and Optical Products—Namely, Rough Lens Blanks, Bifocal Blanks, Bifocal Lenses, Ophthalmic Lenses, Eyeglass Frames and Mountings, Spectacle Frames and Mountings, Goggle Frames, Goggles, Eyeglass Springs, Eyeglass Studs, Eyeglass Guards, Spectacle Springs, Spectacle Temples or Bows, Spectacle Fronts, Spectacle Bridges, Eyeglass Bridges, Oxford Eyeglass Frames, Oxford Spectacle Frames.
Claims use since July 5, 1917.

Ser. No. 294,841. BEADED SCREEN CORP., Roosevelt, N. Y. Filed Jan. 16, 1930.

Vocalite

For Moving-Picture Screens.
Claims use since Nov. 23, 1929.

Ser. No. 297,470. COLORCRAFT CORPORATION, New York, N. Y. Filed Mar. 18, 1930.



For Moving-Picture Films.
Claims use since Mar. 14, 1930.

Ser. No. 297,565. JOHN FRED MILLER, Detroit, Mich. Filed Mar. 14, 1930.

DEVELOGRAPH

For Charts for Recording Physical and Mental Development of a Child.
Claims use since May 15, 1929.

CLASS 27

Horological Instruments

Ser. No. 297,065. ELECTROTIME MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 10, 1930.

SYNCHROTIME

For Electric Clocks.
Claims use since Feb. 1, 1930.

Ser. No. 297,066. ELECTROTIME MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 10, 1930.

ELECTROTIME

For Electric Clocks.
Claims use since Jan. 3, 1930.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 257,416. HOBSON FLATWARE COMPANY, Lansdale, Pa. Filed Nov. 11, 1927.

Mor = Dale

For Silver-Plated Knives, Forks, and Spoons.
Claims use since Aug. 1, 1927.

Ser. No. 293,666. JEFFREY JEWELRY CO., Chicago, Ill. Filed Dec. 14, 1929.



The word "Diamonds" does not form a part of the registration sought apart from the mark shown in the drawing.
For Jewelry Made of Precious Metal or Plated with Precious Metal—Namely, Finger Rings, Brooches, Bracelets, Emblem Buttons, Necklaces, Beads, Pendants, Belt Buckles, Tie Pins, Tie Clasps, Cuff Links, Cigarette Cases, Powder Compacts, and Vanities.
Claims use since 1926.

Ser. No. 294,877. KAPPA KAPPA GAMMA, Columbus, Ohio. Filed Jan. 17, 1930.

ΚΚΓ

For Fraternity Pins Made of or Plated with Precious Metal.
Claims use since Oct. 13, 1870.

Ser. No. 296,436. ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed Feb. 24, 1930.

SKYLINE

For Silver-Plated Flatware, Hollow Ware, and Cutlery.
Claims use since Jan. 17, 1930.

Ser. No. 296,845. ALPHA GAMMA SIGMA FRATERNITY, INC., Collingswood, N. J. Filed Mar. 5, 1930.

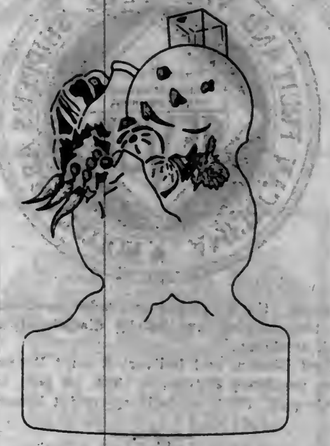
ΑΓΣ

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breastpins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metal.
Claims use since Jan. 1, 1922.

CLASS 31

Filters and Refrigerators

Ser. No. 291,500. COPELAND PRODUCTS, INC., Detroit, Mich. Filed Oct. 24, 1929.



For Refrigerators, Including Cabinets and Mechanical Refrigerating Units.
Claims use since Sept. 28, 1929.

CLASS 33

Glassware

Ser. No. 296,264. DUPLATE CORPORATION, Pittsburgh, Pa. Filed Feb. 20, 1930.



The term "Aerolite" is in white on a blue background, and the representation of the airplane is in red.
For Laminated Sheet Glass.
Claims use since Oct. 4, 1929.

Ser. No. 296,265. DUPLATE CORPORATION, Pittsburgh, Pa. Filed Feb. 20, 1930.

DUO-LITE

For Laminated Sheet Glass.
Claims use since Nov. 18, 1929.

CLASS 34

Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus

Ser. No. 279,084. THE ELECTRO REFRACTORIES CORPORATION, Buffalo, N. Y. Filed Feb. 9, 1929.

MAG-NO-SPALL

For Heat-Conducting Articles Known as Troughs and Made of Refractory Material for Use in Connection with Metallurgical or Electrochemical Apparatus.
Claims use since June 15, 1928.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 267,606. BADGER WORSTED MILLS, Grafton, Wis. Filed June 6, 1928.

LUBRIARN

For Machinery Packing.
Claims use since Apr. 5, 1928.

Ser. No. 292,303. VICTOR MANUFACTURING & GASKET CO., Chicago, Ill. Filed Nov. 11, 1929.



No claim being made to the representation of a gasket apart from the mark shown.
For Sheet Packing.
Claims use since Jan. 1, 1925.

Ser. No. 292,643. VICTOR MANUFACTURING & GASKET CO., Chicago, Ill. Filed Nov. 20, 1929.

HYDRO-BRIGHT-ANNEALED

No claim being made to the words "Bright Annealed" apart from the mark shown.
For Gaskets.
Claims use since June 10, 1927.

CLASS 36

Musical Instruments and Supplies

Ser. No. 291,203. COLUMBIA PHONOGRAPH COMPANY, INC., Bridgeport, Conn. Filed Oct. 18, 1929.



The characters meaning "Electrically Taken, Original Sound or True Tone" and "Phonograph Record" are hereby disclaimed apart from the mark shown in the drawing; owner of prior registration No. 61,237, effected under 10-year proviso, covering the word "Columbia."

For Phonograph Records.

Claims use since on or about Mar. 1, 1929.

Ser. No. 295,472. FRANK HOLTON & Co., Elkhorn, Wis. Filed Feb. 1, 1930.

COLLEGIATE

For Clarinets, Trumpets, Trombones, Mellophones, Baritone Horns, Euphoniums, Bass Horns, and Cornets.

Claims use since Sept. 15, 1929.

CLASS 37

Paper and Stationery

Ser. No. 282,921. PAUL S. HEAVEY, Des Moines, Iowa. Filed Apr. 24, 1929.

Aldine
TRADE-MARK

The words "Trade-Mark" are disclaimed apart from the mark shown.

For Printed Mailing and Correspondence Envelopes, Letterheads, Billheads, Printed Office Forms, Printed Blotters, Printed Labels, Social Stationery—Namely, Writing Paper, Box Paper, and Correspondence Cards.

Claims use since May 15, 1925.

Ser. No. 283,711. AMERICAN FRUIT AND VEGETABLE SHIPPERS ASSOCIATION, Chicago, Ill. Filed May 9, 1929.



The words "United to Better Trade Conditions" appearing on the drawing are hereby disclaimed apart from the mark as shown.

For Post Binders and Delivery-Receipt Books.

Claims use since December, 1924, on post binders and since February, 1926, on delivery-receipt books.

Ser. No. 294,707. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Jan. 13, 1930.

CREAM GOVERNMENT
Post Card

No claim is made for the words "Cream Government Post Card."

For Mineral-Coated Paper Suitable for Printing.

Claims use since December, 1914.

Ser. No. 295,144. YAWMAN AND ERBE MFG. CO., Rochester, N. Y. Filed Jan. 23, 1930. Under 10-year proviso.

SHANNON

For Arch-Type Binders and File Boards, Arch Files, Hand-Operated Perforators, File Compressors and Covers for Arch-Type Binders, Indexes for Arch Binders, File Guides, Transfer Cases, and Loose-Leaf Binders.

Claims use since January, 1880.

Ser. No. 296,261. THE CHAMPION COATED PAPER COMPANY, Hamilton, Ohio. Filed Feb. 20, 1930.

LEXICON
Super

No claim is made for the word "Lexicon" apart from the mark shown in the accompanying drawing.

For Mineral-Coated Paper Suitable for Printing.

Claims use since Jan. 9, 1930.

Ser. No. 296,341. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

OLDTEX

In the drawing the shading represents the color black.

For Correspondence and Mailing Envelopes.

Claims use since January, 1923.

Ser. No. 296,342. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

The GRAY
ENVELOPE
MANUFACTURING
COMPANY, INC.

The words "Good Envelopes" appearing on the drawing are disclaimed apart from the mark as shown. In the drawing the shadings are standard representations for the colors black and red.

For Correspondence and Mailing Envelopes.

Claims use since January, 1923.

Ser. No. 296,343. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

NILATEX

In the drawing the shading represents the color black.

For Correspondence and Mailing Envelopes.

Claims use since January, 1923.

Ser. No. 296,344. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

PURATEX

In the drawing the shading represents the color black.

For Correspondence and Mailing Envelopes.

Claims use since January, 1923.

Ser. No. 296,345. THE GRAY ENVELOPE MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Feb. 21, 1930.

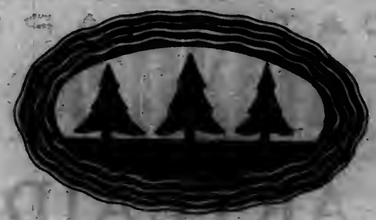
VELTEX

In the drawing the shading represents the color black.

For Correspondence and Mailing Envelopes.

Claims use since January, 1923.

Ser. No. 296,493. PACKAGE SEALING PRODUCTS COMPANY, Philadelphia, Pa. Filed Feb. 25, 1930.



For Gummed-Paper Sealing Tape.

Claims use since Dec. 11, 1929.

Ser. No. 297,048. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y. Filed Mar. 10, 1930. Under 10-year proviso.

STANDARD

For Toilet Paper.

Claims use since November, 1886.

Ser. No. 297,071. GRAFO PENCIL COMPANY, LTD., Ceske Budejovice, Czechoslovakia. Filed Mar. 10, 1930.

Cyclon

For Lead and Copying Pencils.

Claims use since Jan. 20, 1921.

Ser. No. 297,073. GRAFO PENCIL COMPANY, LTD., Ceske Budejovice, Czechoslovakia. Filed Mar. 10, 1930.

FORWARD

For Lead and Copying Pencils.

Claims use since July 1, 1926.

Ser. No. 297,074. GRAFO PENCIL COMPANY, LTD., Ceske Budejovice, Czechoslovakia. Filed Mar. 10, 1930.

GRAFO

For Lead and Copying Pencils.

Claims use since July 12, 1921.

Ser. No. 297,075. GRAFO PENCIL COMPANY, LTD., Ceske Budejovice, Czechoslovakia. Filed Mar. 10, 1930.

STADION

For Lead and Copying Pencils.

Claims use since Jan. 20, 1921.

Ser. No. 297,122. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Mar. 11, 1930.

SUNLIGHT

For Folding Enamel Book Paper.

Claims use since 1887.

Ser. No. 297,182. FRANK P. FAHY, New York, N. Y. Filed Mar. 12, 1930.

DATAGRAPH

For Blank Forms.
Claims use since Feb. 1, 1930.

Ser. No. 297,214. STRATHMORE PAPER COMPANY, Mittineague, Mass. Filed Mar. 12, 1930.

ARTLAID

For Writing and Printing Paper.
Claims use since Feb. 16, 1927.

Ser. No. 297,264. NEENAH PAPER COMPANY, Neenah, Wis. Filed Mar. 13, 1930.

STONEWALL

For Bond, Ledger, Writing, Map, and Index Paper.
Claims use since November, 1912.

Ser. No. 297,267. NEENAH PAPER COMPANY, Neenah, Wis. Filed Mar. 13, 1930.

Resolute

For Bond, Ledger, Writing, Map, and Index Paper.
Claims use since October, 1915.

Ser. No. 297,517. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass. Filed Mar. 19, 1930.

LIGHTHOUSE

For Ledger and Bond Paper.
Claims use since Feb. 27, 1930.

Ser. No. 297,561. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Filed Mar. 19, 1930.

Penworthy

For Writing Tablets, Composition Books, and Notebooks.
Claims use since Oct. 29, 1929.

CLASS 38

Prints and Publications

Ser. No. 278,664. SIMMONS-BOARDMAN PUBLISHING CO., New York, N. Y. Filed Jan. 30, 1929.

Airway Age

Including The Slipstream, Aerial Age, Aeronautics, Flying and International Aeronautics

For Magazine.
Claims use since 1893.

Ser. No. 286,195. THE READ-TAYLOR COMPANY, Baltimore, Md. Filed June 26, 1929.

"Angelo-Photoscopic Process"

Applicant hereby disclaims any exclusive use of the words "Photoscopic Process" apart from the mark shown.
For Photographs and Engravings Produced by Our Special Photoscopic Process.
Claims use since Sept. 1, 1928.

Ser. No. 294,030. STEVENS WALDEN, INCORPORATED, Worcester, Mass. Filed Dec. 23, 1929.

SOCK IT

For Trade Paper.
Claims use since Nov. 29, 1929.

Ser. No. 296,063. CECIL S. KEESLING, Campbell, Calif. Filed Feb. 15, 1930.

The Westerner

For Magazine Published Monthly.
Claims use since May, 1928.

Ser. No. 296,071. FRANCIS MARQUIS, New York, N. Y. Filed Feb. 15, 1930.

Unusualities

For Periodical Publication.
Claims use since Dec. 1, 1928.

Ser. No. 296,218. BLABON-SANDURA COMPANY, INC., Philadelphia, Pa. Filed Feb. 19, 1930.

FLOOR FACTS

For Periodicals.
Claims use since Jan. 23, 1930.

Ser. No. 296,705. MAGUS PUBLISHING COMPANY, INC., New York, N. Y. Filed Mar. 1, 1930.

SMART SET

The lining on the drawing is inserted merely for the purpose of shading.
For Magazine.
Claims use since January, 1930.

Ser. No. 296,854. CHARLES W. BERG, San Francisco, Calif. Filed Mar. 5, 1930.

MORTUARY MANAGEMENT

For Mortuary Trade Journal.
Claims use since May 1, 1926.

CLASS 39

Clothing

Ser. No. 271,391. WM. T. KNOTT CO. INC., New York, N. Y. Filed Aug. 22, 1928.

Brookford Junior

No claim being made to the exclusive use of the word "Junior" apart from the mark as shown in the drawing.
For Three and Four Piece Suits and Overcoats.
Claims use since July 1, 1928.

Ser. No. 280,726. NATIONAL BELLAS HESS CO. INC., New York, N. Y. Filed Mar. 14, 1929.

LASTIKBELT

For Men's and Boys' Underwear, Trousers, and Knickers of Knitted or Textile Fabric.
Claims use since about Dec. 1, 1928.

Ser. No. 291,281. DAVID H. LOWENTHAL & CO., INC., New York, N. Y. Filed Oct. 19, 1929.

MARGATE SPORTS WEAR

The exclusive right to the words "Margate" and "Sports Wear" is disclaimed apart from the mark as shown.
For Ladies' Suits, Coats, Dresses, Scarves, Ladies' Sport Suits, Sport Coats, Sport Dresses, and Ladies' Hats.
Claims use since about Sept. 15, 1929.

Ser. No. 292,094. BOWMAN HAT COMPANY, Knoxville, Tenn. Filed Nov. 7, 1929.

THE FRIENDLY 5 HAT

No claim is made for "Hat, 5," and "$" as part of the mark.
For Men's Hats.
Claims use since on or about June, 1928.

Ser. No. 293,263. CHICAGO RUBBER CLOTHING CO., Racine, Wis. Filed Dec. 5, 1929.

GULL

For Outer Coats for Men, Women, and Children.
Claims use since Oct. 14, 1929.

Ser. No. 294,262. I. D. KARPAS & COMPANY, INC., New York, N. Y. Filed Dec. 31, 1929.

Sahara Fleece

No claim to the word "Fleece" is made except in combination with the trade-mark as shown on the drawing.
For Wearing Apparel—Namely, Ladies' Coats and Suits.
Claims use since Dec. 20, 1929.

Ser. No. 294,854. CHARLES MUNTER, New York, N. Y. Filed Jan. 16, 1930.

FIGURITE

For Corsets, Brassières, Girdles, Combined Brassières and Corsets, Chemises, Underdrawers, Undershirts, Combination Underdrawers and Undershirts, Slips, Garters, Stockings.
Claims use since about Dec. 26, 1929.

Ser. No. 295,025. THE GLUCKIN CORP., New York, N. Y. Filed Jan. 21, 1930.

GLUCKO Cravat

The lining appearing on the drawing being merely for shading purposes and not to indicate color, no claim being made to the word "Cravat" apart from the mark as shown.
For Bow Ties and Four-in-Hand Ties.
Claims use since January, 1929.

Ser. No. 295,388. REPUBLIC KNITTING MILLS INC., Brooklyn, N. Y. Filed Jan. 30, 1930.

Stuart Sportswear

The words "Stuart Sportswear" are disclaimed apart from the other features of the mark shown in the drawing.
For Men's Sport Wearing Apparel—Namely, Sweaters, Hose, Windbreakers, Gloves Made from Wool Yarn, Hats, and Caps.
Claims use since Dec. 2, 1929.

Ser. No. 295,391. FRANK SCHOBLE & CO., Philadelphia, Pa. Filed Jan. 30, 1930.

LEAF-LITE

For Men's Felt Hats.
Claims use since Dec. 23, 1929.

Ser. No. 295,431. LANE BRYANT, INC., New York. N. Y. Filed Jan. 31, 1930.

LANSMOOR

For Coats, Suits, and Dresses for Women and Misses.
Claims use since Jan. 18, 1930.

Ser. No. 295,432. LANE BRYANT, INC., New York, N. Y. Filed Jan. 31, 1930.

LANSMOOR

For Coats, Suits, and Dresses for Women and Misses.
Claims use since Jan. 18, 1930.

Ser. No. 295,612. MORTON H. GOLDENBERG, doing business as Goldenberg's, Washington, D. C. Filed Feb. 5, 1930.

FAN-GEE

For Women's and Misses' Dresses.
Claims use since Jan. 30, 1930.

Ser. No. 296,076. MUSEBECK SHOE COMPANY, Danville, Ill. Filed Feb. 15, 1930.

Musebeck
Flexible
Double-Arch
WEAR STRAIGHT SHOES

The words "Flexible Double-Arch Wear Straight Shoes" are hereby disclaimed apart from the mark as shown.
For Shoes and Insoles for Shoes.
Claims use since Nov. 15, 1927.

Ser. No. 296,393. BROITMAN BROS., New York, N. Y. Filed Feb. 24, 1930.

TAILORED EXPRESSLY FOR
Three "B" Clothes
BROITMAN BROS. NEW YORK

No claim being made to the exclusive use of the words "Tailored Expressly for, Clothes, New York, Broitman Bros." apart from the mark as shown in the drawing.
For Men's Suits and Overcoats.
Claims use since May, 1921.

Ser. No. 296,484. COWDEN MFG. CO., also doing business as Thomas Overall Mfg. Co., Kansas City, Mo. Filed Feb. 25, 1930.

POWDER RIVER

For Overalls, Pants, One-Piece Work Suits, Play Suits.
Claims use since December, 1927.

Ser. No. 296,532. ROBERT LEWIS KNITWEAR CO., INC., New York, N. Y. Filed Feb. 26, 1930.

Robert Lewis
ROLLIN
NEW YORK

Petitioner hereby disclaims the geographical term "New York" as shown on the drawing of said trade-mark.
For Men's, Boys', Women's, and Misses' Sweaters, Coats, Bathing Suits, Hosiery, and Golf Hose.
Claims use since Jan. 1, 1927.

Ser. No. 296,549. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Feb. 26, 1930.

DUALWEAR

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since July 1, 1929.

Ser. No. 296,183. GIBBS & COMPANY, INCORPORATED, Chicago, Ill. Filed Mar. 10, 1930.

HONEST INJUN

For Children's Play Suits and Overalls.
Claims use since July 3, 1929.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 287,181. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed July 16, 1929.

For Hat Trimmings Made of Silk, Cotton, Felt, Feathers, or Furs; Braid, Artificial Flowers, Bows and Rosettes Made of Ribbons, Lace, and Embroidery, Medallions, All Dyed with Fast Colors.
Claims use since about July, 1928.

Ser. No. 296,817. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed Mar. 4, 1930.



For Pins (Not Made of Precious Metal), Snap Fasteners, Hand Sewing Needles, Bias Tape (All Kinds), Narrow Elastic, Oval Elastic, Buttons, and Shoe Laces.
Claims use since Nov. 20, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 294,294. DUPLAN SILK CORPORATION, New York, N. Y. Filed Jan. 2, 1930.

DU RAY DIOM

For Piece Goods of Silk and Rayon and Mixtures Thereof.
Claims use since Nov. 19, 1929.

Ser. No. 294,842. BOTTUM & TORRANCE CO., Bennington, Vt. Filed Jan. 16, 1930.

MOLLY STARK

For Woven Textile Sheets, Pillowcases, Bedspreads, Blankets.
Claims use since July 1, 1929.

Ser. No. 296,418. GENERAL SILK CORPORATION, New York, N. Y. Filed Feb. 24, 1930.

Melo Shan

For Silk Goods in the Piece.
Claims use since on or about Jan. 31, 1930.

Ser. No. 296,686. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Mar. 1, 1930.

Alpafuro

For Pile Fabrics in the Piece.
Claims use since Feb. 17, 1930.

Ser. No. 297,524. EMPIRE SILK COMPANY, New York, N. Y. Filed Mar. 19, 1930.

"THERE'S A REASON"

For Silk Piece Goods.
Claims use since Jan. 4, 1930.

Ser. No. 297,566. CHARLES K. THAU, doing business as Laura Hair Novelty Co., New York, N. Y. Filed Mar. 14, 1930.

Rosamond

For Hair Nets.
Claims use since Feb. 24, 1930.

CLASS 43

Thread and Yarn

Ser. No. 297,527. GENERAL SILK CORPORATION, New York, N. Y. Filed Mar. 19, 1930.

FABREL

For Yarns Made of Silk, Cotton, Rayon, Artificial Silk, or Any Combination of These Yarns.
Claims use since on or about Jan. 31, 1930.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 293,010. SINETTE ELECTRICAL LABORATORIES, Long Beach, Calif. Filed Nov. 27, 1929.

Sinette

ELECTRO-THERAPY THE MODERN WAY TO HEALTH

All the wording appearing on the drawing with the exception of the word "Sinette" is hereby disclaimed apart from the mark shown on the drawing.
For Electrical Device Producing an Alternating Sinusoidal Wave Current for the Treatment of Disease.
Claims use since July 1, 1928.

Ser. No. 293,900. SOLOMON M. SAGER, Evanston, Ill. Filed Dec. 19, 1929.

"OPT-I-CUP"

The word "Cup" is disclaimed apart from the mark shown in the drawing.
For Eyewash Cup or Receptacle.
Claims use since Sept. 15, 1929.

Ser. No. 295,019. CHEMISCHE UND BIOLOGISCHE LABORATORIEN DR. BOERLAGE, G. M. B. H., Wiesbaden, Germany. Filed Jan. 21, 1930.

EMIQUEL

For Massage Apparatus for the Cosmetic Treatment of the Face and Other Portions of the Human Body.
Claims use since April, 1929.

Ser. No. 296,571. HARRIET HUBBARD AYER, INC., New York, N. Y. Filed Feb. 27, 1930.

All for Beauty

The words "All for Beauty" are disclaimed except as a part of the composite mark shown.
For Manicure Sets.
Claims use since Oct. 7, 1929.

Ser. No. 296,658. ELMER I. MCKESSON, doing business as Toledo Technical Appliance Co., Toledo, Ohio. Filed Feb. 28, 1930.

LOVAC

For Apparatus for Handling Liquid and Gas from Patients and Parts of Said Apparatus.
Claims use since June 1, 1929.

Ser. No. 296,659. ELMER I. MCKESSON, doing business as McKesson Appliance Co., Toledo, Ohio. Filed Feb. 28, 1930.

Nargraf

For Respiration-Testing and Gas-Administration Apparatus and Parts Therefor.
Claims use since Jan. 1, 1930.

Ser. No. 297,282. J. W. SPENCER, doing business as Hygienic Laboratories, New Orleans, La. Filed Mar. 13, 1930.

SANIGENIC

For Syringes.
Claims use since May 1, 1929.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 292,628. HIDEKI KIKUCHI, doing business as North American Beppu Mineral Water Company, San Francisco, Calif. Filed Nov. 20, 1929.



The Japanese words "Beppu Mineral Water" written in Japanese characters being hereby disclaimed apart from the mark shown on the drawing.
For Mineral Water—Namely, Mineral Water from Springs of All Types.
Claims use since Apr. 1, 1929.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 279,358. ROYAL IMPORTING CO., New York, N. Y. Filed Feb. 14, 1929.

Roxy Brand

No claim is made to the exclusive use of the word "Brand" apart from the mark shown on the drawing.
For Noodles, Whole-Wheat Noodles, Gluten Noodles, Egg Barley, Spaghetti, Flakes Consisting of Small Square Pieces of Dough Used in Soups or Milk, and Macaroni.
Claims use since about Jan. 12, 1929.

Ser. No. 281,825. GIBAS BROS. INC., Chicago, Ill. Filed Apr. 4, 1929.

PHYLLIS

For Dried Figs, Dried Dates, Dried Prunes, and Nut Meats, Both Salted and in Their Natural State.
Claims use since about January, 1924.

Ser. No. 283,074. HARRY WILLIAMS, Nashville, Tenn. Filed Apr. 26, 1929.



For Mixed Meat Flavored with Spices and Other Flavoring, Put in a Novel Attractive and Useful Casing, Similar to Frankfurters.
Claims use since Feb. 15, 1929.

Ser. No. 283,971. NATHAN SLUTZ, doing business as Sunshine Food Product Co., Philadelphia, Pa. Filed May 13, 1929.



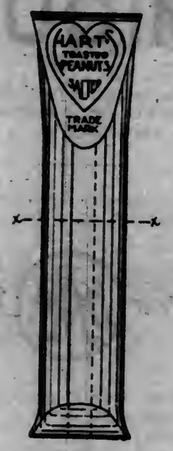
For Malt Syrup.
Claims use since May 7, 1929.

Ser. No. 284,990. MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif. Filed June 3, 1929.



For Fresh Citrus Fruit.
Claims use since November, 1909.

Ser. No. 290,330. JOHN S. SECREST, Hepzibah, W. Va. Filed Sept. 28, 1929.



The applicant also disclaims any trade-mark protection on the peanut bag or the words "Toasted Peanuts, Salted, Trade Mark," as they appear on the drawing.
For Toasted Salted Peanuts.
Claims use since February, 1927.

Ser. No. 294,222. HERMAN J. HIRSCH, doing business as Hollow Tree Pantry, Milwaukee, Wis. Filed Dec. 30, 1929.

HOLLOW TREE PANTRY

For Salted and Unsalted Shelled Nuts.
Claims use since Sept. 21, 1929.

Ser. No. 294,257. HOWEY-IN-THE-HILLS JUICE COMPANY, Howey In The Hills, Fla. Filed Dec. 31, 1929.

Howey

The name "Howey" is shown in the handwriting of W. J. Howey, president of the applicant corporation.
For Grapefruit and Orange Juices.
Claims use since Nov. 30, 1929.

Ser. No. 294,272. THE MIDLAND MILLING COMPANY, Kansas City, Mo. Filed Dec. 31, 1929.



Applicant is the owner of registration No. 119,101.
For Wheat Flour, Bread, Self-Rising Flour, Corn Meal, and Mill Feeds.
Claims use since May 1, 1917, on wheat flour; since June, 1922, on bread; and since Nov. 26, 1929, on self-rising flour, corn meal, and mill feeds.

Ser. No. 294,985. MARTHA WASHINGTON CANDIES COMPANY, Chicago, Ill. Filed Jan. 20, 1930.

Mother of American Candies

Applicant hereby disclaims the words "American Candies" apart from the mark shown in the drawing.
For Candies.
Claims use since Nov. 15, 1928.

Ser. No. 295,081. IROQUOIS CONCORD GRAPE BUREAU, Brockton, N. Y. Filed Jan. 21, 1930.



The representation of a bunch of grapes is disclaimed apart from the mark as shown.
For Fresh Grapes.
Claims use since Sept. 25, 1929.

Ser. No. 295,681. JOHN A. KOUNELIAS, INCORPORATED, Newark, N. J. Filed Feb. 6, 1930.



No claim is made to the word "Macaroni" apart from the trade-mark on which the same is shown.
For Macaroni.
Claims use since Dec. 1, 1928.

Ser. No. 295,942. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed Feb. 12, 1930.

FAIR PLAY GLIDER

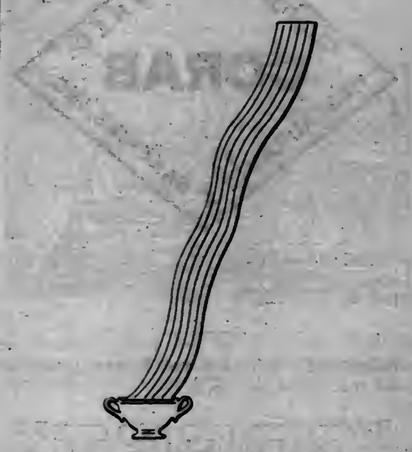
For Candy.
Claims use since Dec. 14, 1929.

Ser. No. 296,183. GIBBS & COMPANY, INCORPORATED, Boston, Mass. Filed Feb. 18, 1930.



For Canned Oyster Stew.
Claims use since Feb. 12, 1930.

Ser. No. 296,226. INTERNATIONAL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 19, 1930.



For Meat Bouillon Usually Put Up in Cans or Tubes.
Claims use since October, 1929.

Ser. No. 296,263. CONSOLIDATED TEA COMPANY, INC., New York, N. Y. Filed Feb. 20, 1930.



Reading from left to right the first word in Russian is "Rega," the name of a city, and the next Russian word is "Sprotes." The applicant hereby disclaims all reading matter with the exception of the word "Lion" appearing on the drawing, together with the outline of the label apart from the mark as shown.
For Canned Fish—Namely, Sprottes.
Claims use since July, 1923.

Ser. No. 296,466. WABASHA ROLLER MILL COMPANY, Wabasha, Minn. Filed Feb. 24, 1930.

SECO

For Wheat Flour.
Claims use since 1927.

Ser. No. 296,550. SCOVILLE CANNING COMPANY, INC., New York, N. Y. Filed Feb. 26, 1930.

"DOUBLE H.H."

For Canned Grapefruit, Canned Grapefruit Juice, Canned Pineapple, Canned Fruit Salad, and Canned Peas.
Claims use since Dec. 26, 1922.

Ser. No. 296,634. CUSTOMER OWNED RESTAURANTS AND BAKERIES, INC., Clarendon, Va. Filed Feb. 28, 1930.



For Rolls, Bread, Cakes, Pies, Buns, Candy, Pastries, Ice Cream, and Ices.
Claims use since Feb. 3, 1930.

Ser. No. 296,651. KINGAN & CO., INCORPORATED, Indianapolis, Ind. Filed Feb. 28, 1930.

"CREST"



For Hams, Bacon, Sliced Bacon, Sausage, and Lard.
Claims use since on or about Jan. 1, 1909.

Ser. No. 296,708. MCVITIE AND PRICE, LIMITED, London, England, and Edinburgh, Scotland. Filed Mar. 1, 1930.

WHEATOLO

Applicant disclaims all right to the exclusive use of the word "Wheat" except in the precise relation and association in which the same appears herein.
For Biscuits, Chocolate-Coated Biscuits and Cakes.
Claims use since 1903.

Ser. No. 296,791. ALBERT DAVID WILE, doing business as Kentucky Kernels Company, Louisville, Ky. Filed Mar. 3, 1930.

KENTUCKY KERNELS



No claim being made to the words "Kentucky" or "Kernels" apart from the mark shown.
For Shelled Nuts—Namely, Salted Almonds, Pecans Both Salted and in Their Natural State, Salted Black Walnuts, and English Walnuts in Their Natural State.
Claims use since January, 1929.

Ser. No. 296,860. DWINELL-WRIGHT COMPANY, Boston, Mass. Filed Mar. 5, 1930.

DIAMOND D

For Coffee.
Claims use since Dec. 10, 1890.

Ser. No. 296,880. ORLANDO CANNING COMPANY, Orlando, Fla. Filed Mar. 5, 1930.

HEART OF FLORIDA

For Canned and Fresh Citrus Fruits.
Claims use since 1927.

Ser. No. 296,898. BELMONT PRODUCTS COMPANY, Fort Wayne, Ind. Filed Mar. 6, 1930.

ANTHONY WAYNE

For Malt Extracts.
Claims use since June 1, 1929.

Ser. No. 296,973. JOHN W. NORTON, doing business as Southland Nut Company, Oklahoma City, Okla. Filed Mar. 7, 1930.



Applicant disclaims the pictorial representation of a peanut and the word "Peanuts" aside from the mark.
For Hulled Peanuts in Their Natural State and Hulled Peanuts Salted.
Claims use since Feb. 12, 1930.

Ser. No. 297,003. F. B. CHAMBERLAIN COMPANY, East St. Louis, Ill., and St. Louis, Mo. Filed Mar. 8, 1930.

JACK FROST

For Coffee Extract (Liquefied) for Flavoring Foods and Concentrated Coffee (Liquefied) for Conversion into a Beverage by the Addition of Water.
Claims use since about Jan. 1, 1883, on extracts for flavoring foods, and since May 10, 1923, on concentrates (nonalcoholic) for conversion into beverages by the addition of water.

Ser. No. 297,009. GEBAUER & KIMPEL, Baltimore, Md. Filed Mar. 8, 1930.

BALMORE CLIPPER

For Malt Syrup.
Claims use since Feb. 28, 1930.

Ser. No. 297,096. JACOB S. POLEFSKY, New York, N. Y. Filed Mar. 10, 1930.



The colors indicated in the drawing represent a black background and a red and gold lining.
For Barley-Malt Extract.
Claims use since Jan. 3, 1930.

Ser. No. 297,180. EELBECK MILLING CO., INC., Columbus, Ga. Filed Mar. 12, 1930.



For Hominy Grits, Self-Rising Flour, Whole-Wheat Flour, Pure Wheat Flour, and Water-Ground Meal.
Claims use since April, 1925.

Ser. No. 297,217. WEBER BAKING COMPANY, Irvington, N. J. Filed Mar. 12, 1930.

PULLMAN BREAD
"Double Pan Baked"

All wording on the drawing is disclaimed except in the association disclosed.
For Bread.
Claims use since Jan. 30, 1930.

Ser. No. 297,223. CLARENCE E. H. ALWES, doing business as F. W. Alwes & Son, Louisville, Ky. Filed Mar. 18, 1930.

HELLO WORLD

For Malt Syrup for Food Purposes.
Claims use since Feb. 20, 1930.

Ser. No. 297,375. MERCEDES CO-OPERATIVE ASSOCIATION, Mercedes, Tex. Filed Mar. 15, 1930.



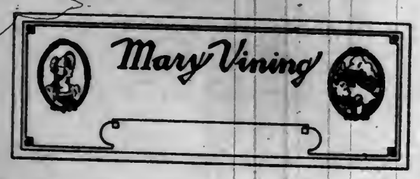
For Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Vegetables.
Claims use since Nov. 12, 1929.

Ser. No. 297,379. PUBLIC BAKING CO., INC., New York, N. Y. Filed Mar. 15, 1930.



The drawing is lined to indicate the colors blue and red.
For Bread.
Claims use since December, 1928.

Ser. No. 297,384. SHULL CANDY COMPANY, INC., Lancaster, Pa. Filed Mar. 15, 1930.



For Candy.
Claims use since November, 1928.

Ser. No. 297,409. CHARLESTON MILLING & PRODUCE COMPANY, Charleston, W. Va. Filed Mar. 17, 1930.

REDHEAD

For Prepared Flours—viz, Pancake Flour and Self-Rising Flour.
Claims use since Aug. 25, 1929.

Ser. No. 297,421. DOWNING TAYLOR COMPANY, Springfield, Mass. Filed Mar. 17, 1930.

FOREST PARK

For Canned Berries, Canned Clam Chowder, Rice, and Coffee.
Claims use since January, 1895, on canned berries and canned clam chowder; since June 14, 1926, on rice; and since Mar. 10, 1930, on coffee.

Ser. No. 297,451. MOUNTAIN STATES HONEY PRODUCERS ASSOCIATION, Boise, Idaho. Filed Mar. 17, 1930.

LAND O' LAKES

For Extracted Honey.
Claims use since Feb. 17, 1930.

Ser. No. 297,465. CHALLENGE CREAM & BUTTER ASSOCIATION, Los Angeles, Calif. Filed Mar. 14, 1930.

CHALLENGE

For Butter.
Claims use since June 1, 1929.

Ser. No. 297,508. AMERICAN CONE & PRETZEL COMPANY, Philadelphia, Pa. Filed Mar. 19, 1930.

Golden Maid

For Pretzels.
Claims use since Feb. 20, 1930.

Ser. No. 297,529. GRAND RIVER CANNING COMPANY, Markesan, Wisconsin. Filed Mar. 19, 1930.

Grand River

For Canned Vegetables.
Claims use since Jan. 1, 1911.

Ser. No. 297,693. POTTSVILLE TOBACCO CO. INC., Pottsville, Pa. Filed Mar. 21, 1930.

Potoco

For Candy.
Claims use since Nov. 14, 1929.

CLASS 48

Malt Beverages and Liquors

Ser. No. 292,422. ROYAL CANADIAN DISTRIBUTING CO., Des Moines, Iowa. Filed Nov. 14, 1929.

ROYAL CANADIAN

No claim is made to the words "Brew" and "Canadian" apart from the mark as shown.
For Nonalcoholic, Cereal Malt Beverages.
Claims use since Aug. 15, 1929.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 264,412. AUTOSALES CORPORATION, Long Island City, N. Y. Filed Apr. 6, 1928.

WASHPAC

For Sanitary Packages Containing One or More of the Following Articles: Towels, Soap, and Comb.
Claims use since Mar. 18, 1928.

Ser. No. 295,828. THE ZAPON COMPANY, Wilmington, Del. Filed Feb. 8, 1930.



For Waterproofed Textile Fabrics.
Claims use since Jan. 23, 1930.

Ser. No. 297,087. THE KROGER GROCERY & BAKING CO., Cincinnati, Ohio. Filed Mar. 10, 1930.

Country Club



For Milk-Bottle Caps, Bottle Crowns, and Fly Swatters.
Claims use since July 1, 1929.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

APRIL 29, 1930

270,079. FROCKS AND DRESSES FOR LADIES, MISSES, AND GIRLS. JACOB M. GOLDSON, Los Angeles, Calif.
Filed December 9, 1929. Serial No. 293,426. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,080. UNDERWEAR. JULIUS KAYSER & Co., New York, N. Y.
Filed December 6, 1929. Serial No. 293,328. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,081. FRESH VEGETABLES. ASHTABULA GROWERS ASSOCIATION, Ashtabula, Ohio.
Filed January 2, 1930. Serial No. 294,288. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,082. FRESH CRANBERRIES. MERCHANTS FRUIT & PRODUCE CO., INC., Boston, Mass.
Filed December 30, 1929. Serial No. 294,230. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,083. CANDY. THE GEORGE CLOSE CO., doing business as Close's, Cambridge, Mass.
Filed December 21, 1929. Serial No. 293,959. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,084. FRUIT PRESERVES. HENRY PAPE, INC., Brooklyn, N. Y.
Filed December 19, 1929. Serial No. 293,889. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,085. BROACHING MACHINES AND BROACHES. THE LA POINTE MACHINE TOOL COMPANY, Hudson, Mass.
Filed December 16, 1929. Serial No. 293,737. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,086. BRAKE LININGS. ALLBESTOS CORPORATION, Philadelphia, Pa.
Filed December 13, 1929. Serial No. 293,613. PUBLISHED FEBRUARY 18, 1930. Class 35.

270,087. RADIATOR CABINETS AND SHIELDS IN THE NATURE OF FURNITURE. EDWARD C. BOWERS and CHARLES L. FELDMAN, receivers for Wickwire Spencer Steel Company, New York, N. Y.
Filed December 11, 1929. Serial No. 293,512. PUBLISHED FEBRUARY 18, 1930. Class 32.

270,088. SAFETY-RAZOR BLADES. WILLIAM J. CAMERON, doing business as Cameron Electromaton Co., Chicago, Ill.
Filed December 4, 1929. Serial No. 293,208. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,089. SLIPPERS FOR MEN, WOMEN, AND CHILDREN MADE OF LEATHER, FELT, SATIN, RAYON, SILK, CLOTH, AND A COMBINATION OF LEATHER AND FELT. TUPPER SLIPPER CORPORATION, Brooklyn, N. Y.
Filed January 4, 1930. Serial No. 294,406. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,090. TOBACCO POUCHES, CIGARETTE CASES, AND CIGAR CASES. HOOKLESS FASTENER COMPANY, Meadville, Pa.
Filed December 31, 1929. Serial No. 294,255. PUBLISHED FEBRUARY 18, 1930. Class 8.

270,091. LADIES' HATS. UNITED MILLINERY STORES Co., Chicago, Ill.
Filed December 30, 1929. Serial No. 294,243. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,092. MEN'S, WOMEN'S, AND CHILDREN'S HOUSE SLIPPERS MADE OF LEATHER, SILK, AND OTHER FABRICS. NORWALK SLIPPER CO., INC., South Norwalk, Conn.
Filed December 28, 1929. Serial No. 294,171. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,093. PRINTING INK. OTTO LAUER, doing business as O. L. Laboratories, St. Albans, N. Y.
Filed December 26, 1929. Serial No. 294,075. PUBLISHED FEBRUARY 18, 1930. Class 11.

270,094. MEN'S AND BOYS' HATS AND CAPS. FIFIELD LTD., Chicago, Ill.
Filed December 2, 1929. Serial No. 294,044. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,095. SAUCE TO BE SERVED WITH HOT AND COLD MEATS, OYSTERS, OMELETTES, AND FOR USE IN SANDWICHES, RUSSIAN DRESSING, AND HORS D'ŒUVRES. NANNIE HARDCASTLE FISHER, doing business as The Panola Co., Ruxton, Md.
Filed December 21, 1929. Serial No. 293,963. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,096. INSECTICIDES. ALBERT T. REPP, Glassboro, N. J.
Filed December 18, 1929. Serial No. 293,852. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,097. COLD CAPSULE. MAX GOLDMAN, doing business as Milax Laboratories, Chicago, Ill.
Filed December 18, 1929. Serial No. 293,828. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,098. PREPARATION FOR SOFTENING FUR GARMENTS. BETZOLD BROTHERS, INC., Philadelphia, Pa.
Filed December 18, 1929. Serial No. 293,818. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,099. MEDICINAL PREPARATIONS FOR THE REMOVAL OF CORNS AND CALLOUSES. IRVING BERNSTEIN, doing business as Irbee Products Company, Brooklyn, N. Y.
Filed December 18, 1929. Serial No. 293,817. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,100. MEN'S SHOES MADE OF LEATHER, FABRIC, AND RUBBER AND COMBINATIONS OF THE SAME. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 14, 1929. Serial No. 293,697. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,101. FRUIT PRESERVES, CANDIED FRUITS, CRYSTALLIZED FRUITS, FRUIT JUICES FOR FOOD PURPOSES, FLAVORING EXTRACTS FOR FOODS, AND FOOD SYRUPS. J. W. ROBERTS & SON, Tampa, Fla.
Filed December 5, 1929. Serial No. 293,290. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,102. LAXATIVES. DAVID N. ROBIN, Crafton and Pittsburgh, Pa.
Filed November 27, 1929. Serial No. 293,004. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,103. MEDICINAL PREPARATION FOR USE AS A LINIMENT OR OINTMENT AS A COUNTERIRRITANT FOR THE RELIEF OF PAIN AND INFLAMMATION. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio.
Filed November 27, 1929. Serial No. 293,001. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,104. CHILDREN'S DRESSES. ROSENAU BROS. INC., Philadelphia, Pa.
Filed December 11, 1929. Serial No. 293,556. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,105. COFFEE. ANNA PRODUCTS CORPORATION, Anna, Ill.
Filed January 9, 1929. Serial No. 277,743. PUBLISHED FEBRUARY 11, 1930. Class 46.

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270,106. CLEANING COMPOUND FOR METALS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed December 21, 1929. Serial No. 293,996. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,107. LIQUID PREPARATION FOR CLEANING GLASS. JEWEL CHEMICAL COMPANY, St. Louis, Mo.
Filed December 21, 1929. Serial No. 293,977. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,108. READY-MIXED PAINT. DETROIT GRAPHITE COMPANY, Detroit, Mich.
Filed December 21, 1929. Serial No. 293,962. PUBLISHED FEBRUARY 11, 1930. Class 16.

270,109. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. FRANK ROTELLA, doing business as Rotella's Beverages, Newark, N. J.
Filed December 19, 1929. Serial No. 293,897. PUBLISHED FEBRUARY 18, 1930. Class 45.

270,110. APRONS. CARSON PIRIE SCOTT & Co., Chicago, Ill.
Filed December 17, 1929. Serial No. 293,770. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,111. UMBRELLAS AND PARASOLS. THE UMBY CORPORATION, New York, N. Y.
Filed December 16, 1929. Serial No. 293,753. PUBLISHED FEBRUARY 18, 1930. Class 41.

270,112. HOSIERY. ROMAN STRIPE MILLS INC., Easton, Pa.
Filed December 16, 1929. Serial No. 293,748. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,113. DRESSES FOR WOMEN AND MISSES. GLORIOUS DRESSES, INC., New York, N. Y.
Filed December 16, 1929. Serial No. 293,725. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,114. MATCHES. COLUMBIA MATCH COMPANY, Cleveland, Ohio.
Filed December 16, 1929. Serial No. 293,717. PUBLISHED FEBRUARY 18, 1930. Class 9.

270,115. MATCHES. COLUMBIA MATCH COMPANY, Cleveland, Ohio.
Filed December 16, 1929. Serial No. 293,716. PUBLISHED FEBRUARY 18, 1930. Class 9.

270,116. MATCHES. COLUMBIA MATCH COMPANY, Cleveland, Ohio.
Filed December 16, 1929. Serial No. 293,714. PUBLISHED FEBRUARY 18, 1930. Class 9.

270,117. SHAVING PREPARATION. BRADLEY HENRY WALTZ, doing business as The Purk Company, Baltimore, Md.
Filed December 14, 1929. Serial No. 293,701. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,118. HOSIERY. PHOENIX HOSIERY COMPANY, Milwaukee, Wis.
Filed December 14, 1929. Serial No. 293,688. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,119. LIQUID FILTER SOAP. MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa.
Filed December 6, 1929. Serial No. 293,335. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,120. A CLEANER AND WATER SOFTENER. MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa.
Filed December 6, 1929. Serial No. 293,334. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,121. FOUNTAIN SYRUP USED AS A FLAVORING EXTRACT FOR SOFT DRINKS. J. D. GOLDSCHMIDT, doing business as The Milk Maid Chocolate Company, Milwaukee, Wis.
Filed December 6, 1929. Serial No. 293,310. PUBLISHED FEBRUARY 18, 1930. Class 45.

270,122. HOTEL AND RESTAURANT EQUIPMENT—NAMELY, DISHWASHING APPARATUS. COUCH & DEAN, INC., New York, N. Y.
Filed January 10, 1930. Serial No. 294,624. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,123. FRESH CITRUS FRUITS. LEE BRONSON SKINNER, Dunedin, Fla.
Filed January 9, 1930. Serial No. 294,596. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,124. FOLDING TABLES. LORRAINE METAL MANUFACTURING COMPANY, Bridgeport, Conn.
Filed January 7, 1930. Serial No. 294,480. PUBLISHED FEBRUARY 18, 1930. Class 32.

270,125. CANNED SALMON. NEW ENGLAND FISH COMPANY, Seattle, Wash.
Filed January 6, 1930. Serial No. 294,434. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,126. LADIES' UNDERWEAR. A. H. SCHREIBER COMPANY, New York, N. Y.
Filed December 12, 1929. Serial No. 293,599. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,127. NONALCOHOLIC, MALT, CEREAL BEVERAGE. THE FITGER COMPANY, Duluth, Minn.
Filed December 12, 1929. Serial No. 293,576. PUBLISHED FEBRUARY 18, 1930. Class 48.

270,128. PUTTY OR PUTTYLIKE MATERIAL CONSISTING OF WOOD IN PASTE FORM. CREO-DIPT COMPANY, INC., North Tonawanda, N. Y.
Filed December 11, 1929. Serial No. 293,519. PUBLISHED FEBRUARY 11, 1930. Class 16.

270,129. TOILET SOAP. BOAG, INCORPORATED, River Forest, Ill.
Filed December 11, 1929. Serial No. 293,513. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,130. CLEANING AND POLISHING MATERIAL FOR METAL, GLASSWARE, AND SIMILAR SURFACES. SILVER SUDS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed December 7, 1929. Serial No. 293,384. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,131. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. LAKESIDE BOTTLING CO., Sheboygan, Wis.
Filed January 4, 1930. Serial No. 294,392. PUBLISHED FEBRUARY 18, 1930. Class 45.

270,132. CONDENSED MILK AND EVAPORATED MILK. AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y.
Filed December 28, 1929. Serial No. 294,134. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,133. ALUMINUM HAMMERS. THE WERRA ALUMINUM FOUNDRY CO., Waukesha, Wis.
Filed January 2, 1929. Serial No. 277,521. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,134. FRESH DECIDUOUS FRUITS. INTERSTATE FRUIT GROWERS, INC., Seattle and Wenatchee, Wash.
Filed December 29, 1928. Serial No. 277,371. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,135. FRESH-DRESSED POULTRY. RISSER & RABINOWITZ, INC., Philadelphia, Pa.
Filed December 10, 1929. Serial No. 293,486. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,136. LIVE AND DRESSED POULTRY. SUFFOLK COUNTY DUCK GROWERS ASSOCIATION OF LONG ISLAND, Riverhead, N. Y.
Filed August 7, 1929. Serial No. 288,256. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,137. CANDY BARS. AKRON CANDY COMPANY, Akron, Ohio.
Filed July 20, 1929. Serial No. 287,395. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,138. DOUGH-MIXING MACHINES AND PARTS THEREOF. AMERICAN OVEN & MACHINE CO., Chicago, Ill., assignor to American Machine & Foundry Company, New York, N. Y., a Corporation of New Jersey.
Filed July 10, 1929. Serial No. 286,851. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,139. CANDY. WM. DERRENBACHER, INC., Brooklyn, N. Y.
Filed June 27, 1929. Serial No. 286,228. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,140. PILLOWS AND CUSHIONS. THE L. BUCHMAN CO. INC., Brooklyn, N. Y.
Filed June 26, 1929. Serial No. 286,152. PUBLISHED FEBRUARY 18, 1930. Class 32.

270,141. MOLDBOARD TRACTOR PLOWS, TRACTOR MANURE SPREADERS, PLANERS, ETC. UNITED TRACTOR & EQUIPMENT CORPORATION, Chicago, Ill.
Filed June 24, 1929. Serial No. 286,091. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,142. COATS, TROUSERS, OVERALLS, AND NEGLIGEE, DRESS, AND WORK SHIRTS FOR MEN AND BOYS. RUMMEL, HIMES & COMPANY, Shippensburg, Pa.
Filed November 25, 1929. Serial No. 292,907. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,143. CHEMISES, PRINCESS SLIPS, BLOOMERS, ETC. I. SCHNEIERSON & SON, INC., New York, N. Y.
Filed November 23, 1929. Serial No. 292,832. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,144. CHEMISES, PRINCESS SLIPS, BLOOMERS, ETC. I. SCHNEIERSON & SON, INC., New York, N. Y.
Filed November 23, 1929. Serial No. 292,830. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,145. CHILDREN'S HOSIERY. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed November 22, 1929. Serial No. 292,729. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,146. OVERALLS, DENIM JACKETS; DRESS, NEGLIGEE, AND WORK SHIRTS; SHEEP-LINED COATS, AND LEATHER COATS. JOHN S. BRITTAIN DRY GOODS COMPANY, St. Joseph, Mo.
Filed November 22, 1929. Serial No. 292,715. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,147. MEN'S, LADIES', AND CHILDREN'S OVERCOATS. F. C. HUYCK & SONS, Rensselaer and Albany, N. Y.
Filed November 13, 1929. Serial No. 292,357. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,148. FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH GRAPES, FRESH BERRIES. PENRYN FRUIT CO., Penryn, Calif.
Filed November 5, 1929. Serial No. 292,044. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,149. OVERALLS. WINDER MANUFACTURING COMPANY, Winder, Ga.
Filed October 31, 1929. Serial No. 291,856. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,150. MEN'S FURNISHINGS—NAMELY, SHIRTS, NEGLIGEE AND DRESS, NECKTIES, AND SCARFS, UNDERWEAR, PAJAMAS, ROBES, MUFFLERS, SWEATERS, AND BATHING SUITS. WM. T. KNOTT CO., INC., New York, N. Y.
Filed October 26, 1929. Serial No. 291,622. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,151. DRESSES FOR WOMEN, MISSES, AND CHILDREN. JUSTIN MCCARTY, INC., Dallas, Tex., and New York, N. Y.
Filed October 12, 1929. Serial No. 291,011. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,152. DRESS AND WORK TROUSERS. BEDFORD JOHNSON CO., INC., New York, N. Y.
Filed October 10, 1929. Serial No. 290,878. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,153. MEN'S AND BOYS' DRESS, NEGLIGEE, AND WORK SHIRTS AND PAJAMAS. LOUIS BASKIND & CO., INC., New York, N. Y.
Filed September 8, 1929. Serial No. 289,262. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,154. PREPARATION FOR THE TREATMENT OF CHAPPED HANDS AND FACE, SUNBURN, AND IRRITATED CONDITIONS OF THE SKIN AND FOR USE AFTER SHAVING. MONTICELLO DRUG COMPANY, Jacksonville, Fla.
Filed August 31, 1929. Serial No. 289,240. PUBLISHED FEBRUARY 4, 1930. Class 6.

270,155. RUBBER TIRES FOR VEHICLES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed October 8, 1929. Serial No. 290,803. PUBLISHED FEBRUARY 18, 1930. Class 35.

270,156. WRAPPING PAPER, WAXED SULPHITE AND GLASSINE PAPER; INDUSTRIAL PAPERS—I. E., ROPE, JUTE, SULPHITE, AND SULPHATE TAG AND MANILLA. THE WARREN MANUFACTURING CO., Riegelsville, N. J., and New York, N. Y.
Filed October 8, 1929. Serial No. 290,637. PUBLISHED JANUARY 7, 1930. Class 37.

270,157. FRESH CHERRIES, APRICOTS, PEARS, AND APPLES. UNIVERSAL FRUIT COMPANY, INC., Wenatchee, Wash.
Filed October 3, 1929. Serial No. 290,633. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,158. COIN-OPERATED ELECTRIC SOUND MOVING-PICTURE MACHINES AND PARTS THEREOF, CAMERAS, PHOTOGRAPHIC LENSES, ETC. ROBERT C. BELGAU, Miami, Fla.
Filed August 30, 1929. Serial No. 289,176. PUBLISHED FEBRUARY 18, 1930. Class 26.

270,159. VEGETABLE SHORTENING. VEGETABLE OIL PRODUCTS COMPANY, INC., Los Angeles, Calif.
Filed August 26, 1929. Serial No. 289,050. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,160. COUNTER-DISPLAY CASES OF ALL KINDS. PERFECTION GLASS COMPANY, LIMITED, Toronto, Ontario, Canada.
Filed June 11, 1929. Serial No. 285,424. PUBLISHED FEBRUARY 18, 1930. Class 32.

270,161. COLLARS, PAJAMAS, NIGHT ROBES; MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR OF TEXTILE FABRIC; AND DRESS, NEGLIGEE, AND WORK SHIRTS. VANDERBILT MILLS, INC., New York, N. Y.
Filed June 8, 1929. Serial No. 285,311. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,162. BLUE-PRINT PAPERS AND CLOTH, BLACK-PRINT PAPERS AND CLOTH, ETC. CHARLES BRUNING COMPANY, INC., New York, N. Y.
Filed June 8, 1929. Serial No. 285,245. PUBLISHED FEBRUARY 4, 1930. Class 26.

270,163. BRAKE LININGS. ALLBESTOS CORPORATION, Philadelphia, Pa.
Filed November 27, 1929. Serial No. 292,963. PUBLISHED FEBRUARY 18, 1930. Class 35.

270,164. HAND BOTTLE-CAPPING TOOLS. TILT TOP MFG. CO., Chicago, Ill.
Filed November 30, 1928. Serial No. 276,052. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,165. MEN'S WORK SHIRTS, SPORT SHIRTS, AND JACKETS OF WOOL AND COTTON. CARLTON MILLS, INC., New York, N. Y.
Filed November 26, 1928. Serial No. 275,825. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,166. CANDY, BREAD, CAKE, PIES, CRACKERS, NUTS IN THEIR RAW STATE, ROASTED NUTS, SALTED NUTS, NUTS IN PASTE FORM, AND RAISINS. JOHN WALTER, New York, N. Y.
Filed October 22, 1928. Serial No. 274,140. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,167. VOILES, SCRIM, AND MARQUISETTES IN THE PIECE. KENDALL MILLS, INC., Walpole, Mass., assignor to The Kendall Company, Walpole, Mass., a Corporation of Massachusetts.
Filed September 14, 1928. Serial No. 272,407. PUBLISHED FEBRUARY 11, 1930. Class 42.

270,168. MEN'S, WOMEN'S, YOUNG MEN'S, MISSES', BOYS', AND GIRLS' COATS. CARSON PIRIE SCOTT & Co., Chicago, Ill.
Filed June 6, 1928. Serial No. 267,536. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,169. ANTIDAZZLE DEVICES FOR ATTACHMENT TO GOGGLES, SPECTACLES, AND THE LIKE. HENRY CLORAN, Ambleside, England.
Filed November 18, 1929. Serial No. 292,601. PUBLISHED FEBRUARY 18, 1930. Class 26.

270,170. FRESH CITRUS FRUITS. TEXAS TRUCK LINES, INC., doing business as The Valley Fruit Co., McAllen, Tex.
Filed October 29, 1929. Serial No. 291,746. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,171. FIRE EXTINGUISHERS OF THE AUTOMATICALLY-OPERATING WALL TYPE. SECURITY MFG. COMPANY, Denver, Colo.
Filed October 28, 1929. Serial No. 291,698. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,172. YERBA MATÉ TEA. INTERNATIONAL MATÉ COMPANY, INC., New York, N. Y.
Filed October 17, 1929. Serial No. 291,168. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,173. HAIR DYE, HAIR OIL, WAVING LOTIONS, ASTRINGENTS, ETC. CHARLES OF THE RITZ, New York, N. Y.
Filed February 27, 1928. Serial No. 262,292. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,174. MEN'S CLOTHING. PAUL MANDEL AND BRO., Philadelphia, Pa.
Filed November 9, 1927. Serial No. 257,297. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,175. DRESS AND SEMIDRESS SHIRTS AND TIES. MARION R. GRAY, doing business as Marion R. Gray Co., Los Angeles, Calif.
Filed November 20, 1929. Serial No. 292,627. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,176. WASHING POWDERS. THOMAS MOFFAT COMPANY, INC., Indianapolis, Ind.
Filed November 13, 1929. Serial No. 292,365. PUBLISHED FEBRUARY 4, 1930. Class 4.

270,177. LOUNGING ROBES, HOUSE COATS, BATH ROBES, AND SMOKING JACKETS. VAN BAALEN HEILBRUN & Co., New York, N. Y.
Filed November 1, 1929. Serial No. 291,895. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,178. FOOD PRODUCTS—NAMELY, RICE, LENTILS, DRIED BEANS, AND COFFEE. JOHN MINERVINI, Hoboken, N. J.
Filed September 28, 1929. Serial No. 290,378. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,179. AWNINGS, BLACKBOARDS, BOTTLE CAPS, ETC. L. BAMBERGER & Co., Newark, N. J.
Filed September 27, 1929. Serial No. 290,289. PUBLISHED FEBRUARY 18, 1930. Class 50.

270,180. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD FOR SOFT DRINKS. EDNA I. HEMM, doing business as Adam & Eve Beverage Company, Pittsburgh, Pa.
Filed October 29, 1929. Serial No. 291,726. PUBLISHED FEBRUARY 18, 1930. Class 45.

270,181. VARIOUS SOAPS AND HAND CLEANER. ARCHIE R. EVERSON, Newark, N. J.
Filed October 29, 1929. Serial No. 291,719. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,182. OUTER DRESS SHIRTS. THE YORKE SHIRT COMPANY, Glens Falls, N. Y.
Filed October 18, 1929. Serial No. 291,252. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,183. LADIES' VESTS, BLOOMERS, DRAWERS, PRINCESS SLIPS, UNION SUITS, CHEMISES; COMBINATION GARMENTS CONSISTING OF A CHEMISE, DRAWERS, AND BRASSIÈRE ALL IN ONE; CAMISOLES, NIGHTGOWNS, AND PAJAMAS. SIG ROSENTHAL CO., INC., New York N. Y.
Filed October 14, 1929. Serial No. 291,068. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,184. PREPARED COCOA, COCOA BUTTER FOR FOOD PURPOSES, COCOA POWDER, CHOCOLATE LIQUOR, SWEETENED CHOCOLATE, AND GROUND CHOCOLATE. JOHN BERNARD VAN HEUSDEN, New York, N. Y.
Filed October 2, 1929. Serial No. 290,533. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,185. WORK SHIRTS. HOWARD G. GILES, New York, N. Y.
Filed September 30, 1929. Serial No. 290,402. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,186. MEN'S CLOTHES—NAMELY, SUITS AND OVERCOATS. P. FEINSTEIN & SONS, New York, N. Y.
Filed September 28, 1929. Serial No. 290,348. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,187. MEN'S CLOTHES—NAMELY, LININGS FOR SUITS AND OVERCOATS. P. FEINSTEIN & SONS, New York, N. Y.
Filed September 28, 1929. Serial No. 290,347. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,188. PLASTIC WALL COVERS IN THE NATURE OF PAINT AND PAINTER'S SIZING. PLASTIC STONE PRODUCTS CORP., New York, N. Y.
Filed August 21, 1929. Serial No. 288,815. PUBLISHED FEBRUARY 4, 1930. Class 16.

270,189. NONALCOHOLIC BEVERAGES—TO WIT, BOILED CIDER AND GRAPE JUICE. GEO. RASMUSSEN CO., Chicago, Ill.
Filed July 20, 1929. Serial No. 287,426. PUBLISHED FEBRUARY 18, 1930. Class 45.

270,190. OUTER WEARING APPAREL FOR WOMEN AND GIRLS—NAMELY, DRESSES AND SMOCKS. FOREST CITY MFG. CO., St. Louis, Mo.
Filed July 15, 1929. Serial No. 287,130. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,191. DRY-CLEANING LIQUID FOR THE REMOVAL OF STAINS AND SPOTS. HENRY R. BASS, doing business as De Vilah Good Co., Kansas City, Mo.
Filed July 15, 1929. Serial No. 287,106. PUBLISHED FEBRUARY 4, 1930. Class 4.

270,192. SOAPS AND SCOURING POWDER. LIQUID DEHYDRATION CORPORATION, Chicago, Ill.
Filed June 14, 1929. Serial No. 285,571. PUBLISHED FEBRUARY 4, 1930. Class 4.

270,193. MEN'S AND WOMEN'S HOSIERY IN COTTON, SILK, RAYON, AND IN COMBINATIONS OF THE AFORESAID FIBERS. AMERICAN HOSIERY MILLS, Burlington, N. C.
Filed June 14, 1929. Serial No. 285,545. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,194. ABRASIVE PAPERS AND CLOTHS. UNITED STATES SAND PAPER CO., Williamsport, Pa.
Filed June 13, 1929. Serial No. 285,538. PUBLISHED FEBRUARY 4, 1930. Class 4.

270,195. ABRASIVE PAPERS AND CLOTHS. UNITED STATES SAND PAPER CO., Williamsport, Pa.
Filed June 13, 1929. Serial No. 285,537. PUBLISHED FEBRUARY 4, 1930. Class 4.

270,196. READY-MIXED PAINTS. AMERICAN WURTZILITE COMPANY, Chicago, Ill.
Filed November 22, 1929. Serial No. 292,707. PUBLISHED FEBRUARY 4, 1930. Class 16.

270,197. SHOES MADE PRINCIPALLY OF LEATHER. VIRGINIA SHOE COMPANY, INC., Fredericksburg, Va.
Filed September 20, 1929. Serial No. 290,044. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,198. HAIR TONIC. FALFURRIAS CHEMICAL COMPANY, Falfurrias, Tex.
Filed September 20, 1929. Serial No. 290,014. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,199. SALVE FOR EXTERNAL USE IN THE TREATMENT OF SORES, CUTS, BRUISES, BURNS, AND THE LIKE. LAVINA CANNON, Greenville, Pa.
Filed September 18, 1929. Serial No. 289,917. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,200. MOPS, BRUSHES, BROOMS, ETC. THE CHARTER OAK BRUSH COMPANY, Hartford, Conn.
Filed November 27, 1929. Serial No. 292,978. PUBLISHED FEBRUARY 18, 1930. Class 29.

270,201. MOPS, BRUSHES, BROOMS, ETC. THE CHARTER OAK BRUSH COMPANY, Hartford, Conn.
Filed November 27, 1929. Serial No. 292,977. PUBLISHED FEBRUARY 18, 1930. Class 29.

270,202. LAXATIVE MEDICINE. ARQUE LOWELL MANNING, doing business as Manette Medicine Company, St. Louis, Mo.
Filed November 19, 1929. Serial No. 292,770. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,203. ALIMENTARY PASTES. WEST VIRGINIA MACARONI COMPANY, Clarksburg, W. Va.
Filed November 28, 1929. Serial No. 292,712. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,204. FACE POWDERS. THE CRYSTAL CHEMICAL COMPANY, INC., Bronx, N. Y.
Filed November 15, 1929. Serial No. 292,439. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,205. URINARY ANTISEPTIC. RIEDEL & CO. INC., New York, N. Y.
Filed November 8, 1929. Serial No. 292,177. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,206. DRESSES AND COATS FOR WOMEN, MISSES, AND JUNIOR MISSES. B. GERTZ, INCORPORATED, Jamaica, N. Y.
Filed November 4, 1929. Serial No. 291,975. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,207. CARBON PAPER. COLUMBIA RIBBON & CARBON MANUFACTURING COMPANY, INC., Glen Cove, N. Y.
Filed November 2, 1929. Serial No. 291,907. PUBLISHED FEBRUARY 18, 1930. Class 11.

270,208. PLAIN PINS AND SAFETY PINS MADE OF STEEL, ALUMINITE, AND OTHER NONPRECIOUS METALS. S. H. KRESS & CO., New York, N. Y.
Filed November 1, 1929. Serial No. 291,879. PUBLISHED FEBRUARY 18, 1930. Class 40.

270,209. BOTTLE AND JAR SEALS. FERDINAND GUTMANN & CO., Brooklyn, N. Y.
Filed October 31, 1929. Serial No. 291,823. PUBLISHED FEBRUARY 18, 1930. Class 50.

270,210. SUBSTITUTE FOR GLASS, MADE OF FINE WIRE NETTING COATED WITH A TRANSPARENT FILM, OF WHICH THE BASIS IS CELLULOSE ACETATE. CLAUDE MARTIN DAVIES, London, England.
Filed September 17, 1929. Serial No. 289,877. PUBLISHED FEBRUARY 18, 1930. Class 50.

270,211. CANNED SLICED AND CRUSHED PINEAPPLE AND PINEAPPLE JUICE USED FOR FOOD-FLAVORING PURPOSES. HAWAIIAN CANNERIES COMPANY, LTD., Kapaa, Kauai, Territory of Hawaii.
Filed August 21, 1929. Serial No. 288,803. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,212. FERTILIZER. EVERGREEN PRODUCTS COMPANY, Tampa, Fla.
Filed October 18, 1929. Serial No. 291,253. PUBLISHED FEBRUARY 18, 1930. Class 10.

270,213. ORGANIC ACIDS FOR USE IN THE MANUFACTURE OF SYNTHETIC RESINS, RESIN PLASTICIZERS, SOLVENTS, AND MALIC ACID. NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y.
Filed October 8, 1929. Serial No. 290,788. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,214. HEELS FOR SHOES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed October 3, 1929. Serial No. 290,630. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,215. MEN'S AND BOYS' COTTON RIBBED SHIRTS AND DRAWERS AND UNION SUITS OF KNITTED FABRIC. STANDARD KNITTING MILLS, Knoxville, Tenn.
Filed January 21, 1929. Serial No. 278,266. PUBLISHED FEBRUARY 11, 1930. Class 39.

270,216. LATHES. THE SIDNEY MACHINE TOOL COMPANY, Sidney, Ohio.
Filed January 29, 1929. Serial No. 278,624. PUBLISHED FEBRUARY 18, 1930. Class 23.

270,217. PERFUMES, COSMETICAL CREAMS, SCALP WATERS, ETC. GEORG SCHICHT A. G., Aussig, Czechoslovakia.
Filed February 15, 1929. Serial No. 279,890. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,218. BREAD, CAKES, PIES, ETC. CAMBERN CORPORATION, Spokane, Wash.
Filed March 18, 1929. Serial No. 280,891. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,219. CUFF LINKS, BUTTONS, BELT BUCKLES, AND TIE CLASPS, ALL OF BASE METAL, AND GLASS BEADS. NEW YORK EXPORT CO., New York, N. Y.
Filed March 26, 1929. Serial No. 281,367. PUBLISHED FEBRUARY 4, 1930. Class 40.

270,220. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. JARMAN SHOE COMPANY, Nashville, Tenn.
Filed April 4, 1929. Serial No. 281,836. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,221. CANNED PEAS, CANNED SHRIMP, AND CANNED PEACHES. FRANCIS H. LEGGETT & COMPANY, New York, N. Y.
Filed April 19, 1929. Serial No. 282,658. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,222. DRIED FRUITS—NAMELY, DATES AND FIGS. SMYRNA IMPORTS CO., INC., New York, N. Y.
Filed April 25, 1929. Serial No. 283,018. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,223. HOSIERY. CHARLES BRAND, doing business as Rosenberg & Brand, New York, N. Y.
Filed April 30, 1929. Serial No. 283,247. PUBLISHED FEBRUARY 18, 1930. Class 39.

270,224. WATCHES AND WATCH MOVEMENTS. WILLIAM A. MUNEY, New York, N. Y.
Filed May 6, 1929. Serial No. 283,582. PUBLISHED FEBRUARY 18, 1930. Class 27.

270,225. COFFEE. B. FISCHER & CO., INC., New York, N. Y.
Filed May 21, 1929. Serial No. 284,396. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,226. ICE CREAM. LINBROOK ICE CREAM COMPANY, INC., Middletown, Conn.
Filed May 22, 1929. Serial No. 284,475. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,227. SOAP IN GRANULAR FORM. MITCHELL WING COMPANY, Boston, Mass.
Filed May 22, 1929. Serial No. 284,482. PUBLISHED FEBRUARY 11, 1930. Class 4.

270,228. FRESH ASPARAGUS. MIDDLESEX ASPARAGUS GROWERS' ASSOCIATION, Concord, Mass.
Filed May 25, 1929. Serial No. 284,622. PUBLISHED FEBRUARY 18, 1930. Class 46.

270,229. PREPARED FOOD—NAMELY, MACARONI. RONZONI MACARONI CO., Long Island City, N. Y.
Filed August 13, 1929. Serial No. 288,484. PUBLISHED FEBRUARY 11, 1930. Class 46.

270,230. LIQUID PREPARATION FOR RHEUMATISM. THOMAS C. HARRIS, doing business as Harris Products Company, Detroit, Mich.
Filed June 7, 1929. Serial No. 285,207. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,231. MARKING INK AND STYLO CONTAINER COMBINED. JOHN P. NISSEN, JR., doing business as John P. Nissen, Jr., Co., Philadelphia, Pa.
Filed June 22, 1929. Serial No. 285,982. PUBLISHED FEBRUARY 25, 1930. Class 11.

270,232. ACETYL SALICYLIC ACID, PYRAZOLONE, BENZYL BENZOATE, ETC., SOCIÉTÉ PARISIENNE D'EXPANSION CHIMIQUE S. P. E. C. I. A., Paris, France.
Filed July 2, 1929. Serial No. 286,516. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,233. ANALGESIC. HARRIET B. DURAND, Rochester, N. Y.
Filed August 6, 1929. Serial No. 288,181. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,234. CARDIACUM, ASTHMATICUM, AND PREPARATION FOR PREVENTING COAGULATION OF THE BLOOD. BYK-GULDENWERKE CHEMISCHE FABRIK AKTIENGESELLSCHAFT, Berlin, Germany.
Filed August 20, 1929. Serial No. 288,741. PUBLISHED FEBRUARY 11, 1930. Class 6.

270,235. PLASTER OR CEMENTITIOUS MATERIAL CONSISTING OF WOOD IN PASTE FORM THAT HARDENS WHEN EXPOSED TO AIR. CREO-DIPT COMPANY, INC., North Tonawanda, N. Y.
Filed December 11, 1929. Serial No. 293,520. PUBLISHED FEBRUARY 11, 1930. Class 12.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

270,236. (CLASS 31. FILTERS & REFRIGERATORS.) THE INSTANT FREEZER CORPORATION, Racine, Wis., assignor to I. V. Brossel. Filed Sept. 26, 1927. Serial No. 255,243.

Instantfreeze

For Ice-Cream Freezers.
Claims use since Sept. 1, 1927.

270,237. (CLASS 12. CONSTRUCTION MATERIALS.) THE MOSAIC TILE COMPANY, Zanesville, Ohio. Filed Jan. 23, 1928. Serial No. 206,519.

EGYPTIAN BLACK

For Floor, Wall, and Ceiling Tiles for Interior and Exterior Purposes.
Claims use since on or about June 1, 1927.

270,238. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) THE W. S. TYLER COMPANY, Cleveland, Ohio. Filed Feb. 9, 1928. Serial No. 261,468.

"PRESS-LOCK"

For Woven Wire Screens for Sand, Rock, Gravel, and Grain Screening Apparatus.
Claims use since Oct. 19, 1927.

270,239. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BANNER CREAMERY COMPANY, doing business as Banner Creamery Co., St. Louis, Mo. Filed Apr. 7, 1928. Serial No. 264,505.

SUNDAES AT HOME

For Ice Cream.
Claims use since Mar. 17, 1928.

270,240. (CLASS 11. INKS AND INKING MATERIALS.) ALCO-GRAVURE, INCORPORATED, New York, N. Y. Filed June 8, 1928. Serial No. 267,679.

ALCOLOR

For Writing and Printing Inks.
Claims use since May 4, 1928.

270,241. (CLASS 11. INKS AND INKING MATERIALS.) ALCO-GRAVURE, INCORPORATED, New York, N. Y. Filed June 8, 1928. Serial No. 267,684.

ALCOLOR GRAVURE

For Writing and Printing Inks.
Claims use since May 4, 1928.

270,242. (CLASS 17. TOBACCO PRODUCTS.) BAYUK CIGARS INCORPORATED, Philadelphia, Pa. Filed June 14, 1928. Serial No. 268,019.



For Cigars.
Claims use since Aug. 10, 1927.

270,243. (CLASS 16. PAINTS AND PAINTER'S MATERIALS.) PARKER-REGAN CORPORATION, San Francisco, Calif. Filed Oct. 10, 1928. Serial No. 273,607.

BETTY BRIGHT

For Polishing Oil—Namely, an Automobile and Furniture Polish.
Claims use since Aug. 21, 1928.

270,244. (CLASS 39. CLOTHING.) MCCAIN-WRIGHT, Inc., St. Louis, Mo. Filed Oct. 15, 1928. Serial No. 273,828.

TRULIFINE

For Women's Shoes Made of Leather, Fabric, and Rubber or Combinations Thereof.
Claims use since Oct. 1, 1928.

270,245. (CLASS 39. CLOTHING.) STANDARD KNITTING MILLS, Knoxville, Tenn. Filed Jan. 21, 1929. Serial No. 278,265.

Healthknit

For Men's and Boys' Cotton Ribbed Shirts and Drawers and Union Suits of Knitted Fabric.
Claims use since Aug. 4, 1928.

270,246. (CLASS 39. CLOTHING.) NATHAN & COHEN CO., INC., New York, N. Y. Filed Feb. 23, 1929. Serial No. 279,806.

NUMODE

For Semiskirts.
Claims use since Dec. 19, 1928.

270,247. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FANNY KEELER, New York, N. Y. Filed Jan. 24, 1929. Serial No. 278,405.

KEELER DOLLS

For Dolls.
Claims use since Nov. 25, 1928.

270,248. (CLASS 39. CLOTHING.) LANCASTER MERC. CO. INC., New York, N. Y. Filed Mar. 7, 1929. Serial No. 280,402.

Lancaster

For Ladies' and Children's Hats.
Claims use since Mar. 1, 1929.

270,249. (CLASS 39. CLOTHING.) AULT-WILLIAMSON SHOE CO., Auburn, Me. Filed Mar. 27, 1929. Serial No. 281,393.

prophylactic

For Ladies' Boots, Shoes, Slippers, and Pumps Composed Wholly or in Part of Leather.
Claims use since Jan. 28, 1929.

270,250. (CLASS 39. CLOTHING.) HALL AND HALL CO., INC., Danbury, Conn. and New York, N. Y. Filed Mar. 30, 1929. Serial No. 281,608.

"WATERFELTED"

For Boys' and Men's Hats and Caps.
Claims use since Mar. 1, 1929.

270,251. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE PEP BOYS, MANNY, MOE & JACK, Philadelphia, Pa. Filed July 6, 1929. Serial No. 286,709.

CORNELL — FULL POWER CIRCLE — DOUBLE

For Vehicle Tires and Inner Tubes Constructed of Rubber and Rubberized Fabric.
Claims use since Feb. 9, 1929.

270,252. (CLASS 15. OILS AND GREASES.) TOPP OIL & SUPPLY CO., Milwaukee, Wis. Filed July 10, 1929. Serial No. 286,907.

Glo-Green

In the drawing the letters are lined to indicate the color green.
For Motor-Lubricating Oil.
Claims use since Feb. 18, 1929.

270,253. (CLASS 39. CLOTHING.) J. MAIMON & SON, Philadelphia, Pa. Filed July 18, 1929. Serial No. 287,306.

WALES

For Men's and Boys' Coats and Suits.
Claims use since Jan. 1, 1928.

270,254. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUISE M. FAUGHT, Brooklyn, N. Y. Filed July 27, 1929. Serial No. 287,745.

NURSE LOUISE FAUGHT'S

For Preparation for the Relief of Colds, Bronchitis, Croup, Whooping Cough, Spasmodic Coughing, Neuritis, Rheumatism, Lumbago, Sciatica, Sore Back, Pain in Joints, Sprains, Sore Feet, Chilblains, Gout, Arthritis, and Myalgia.
Claims use since 1926.

270,255. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) S. H. KRESS & CO., New York, N. Y. Filed Aug. 3, 1929. Serial No. 288,077.

BESTEEL

For Paring Knives, Butcher Knives, and Bread Knives.
Claims use since Feb. 27, 1929.

270,256. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) AMERICAN BRAKE MATERIALS CORPORATION, New York, N. Y. Filed Aug. 22, 1929. Serial No. 288,829.

AMERICAN BRAKEBLOKS

For Composition Frictional Elements for Brakes.
Claims use since on or about Nov. 22, 1926.

270,257. (CLASS 39. CLOTHING.) HARRY D. FERTEL, New York, N. Y. Filed Sept. 20, 1929. Serial No. 290,016.

FERTELFUR

For Coats, Particularly Fur and Leather Coats for Men, Women, and Children.
Claims use since 1903.

270,258. (CLASS 39. CLOTHING.) M. H. ROSEN & COMPANY, New York, N. Y. Filed Oct. 5, 1929. Serial No. 290,718.

LILAC SILK

For Men's Dress Shirts Made of Silk.
Claims use since July, 1928.

270,259. (CLASS 39. CLOTHING.) PALMER APPAREL SHOP, Chicago, Ill. Filed Dec. 13, 1929. Serial No. 293,686.

Palmer Apparel Shops INC.

For Women's Shoes Constructed of Leather, Rubber, or Fabric or Combinations of These Materials, Dresses, and Coats.
Claims use since Dec. 3, 1926.

270,260. (CLASS 45. BEVERAGES, NONALCOHOLIC.) SEMINOLE BOTTLING COMPANY, Huntsville, Ala. Filed Dec. 23, 1929. Serial No. 294,027.

JAMAICA FIZZ

For Ginger Ale.
Claims use since Mar. 1, 1929.

270,261. (CLASS 39. CLOTHING.) HA-BER-SAN MANUFACTURING CORP., New York, N. Y. Filed Jan. 24, 1930. Serial No. 295,159.

FADEPROOF

For Men's and Boys' Dress and Negligee Shirts and Pajamas.
Claims use since Aug. 6, 1928.

270,262. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED HOFMANN, doing business as Original Old Country Remedy Company, Fort Wayne, Ind. Filed Jan. 25, 1930. Serial No. 295,219.

Original Old Country

For Medicinal Herb Teas for the Treatment of the Bladder, the Kidneys, the Urinary Tract, Gout and Diabetes.
Claims use since Jan. 24, 1928.

270,263. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN B. GOLDENBERG, doing business as Clearskin Laboratories, Inc., New York, N. Y. Filed Jan. 28, 1930. Serial No. 295,301.

CLEARSKIN

For Face Cream.
Claims use since Feb. 5, 1929.

270,264. (CLASS 39. CLOTHING.) H. JACOB & SONS, INC., Brooklyn, N. Y. Filed Feb. 4, 1930. Serial No. 295,567.

IT'S THE KOUNTER

THAT KOUNTS

For Slippers of Leather, Rubber, Fabric, or Combinations of Leather, Rubber, or Fabric for Men, Women, and Children.
Claims use since January, 1928.

270,265. (CLASS 39. CLOTHING.) CLUETT, PEABODY & Co., INC., Troy, N. Y. Filed Feb. 8, 1930. Serial No. 295,781.

CLARIDGE

For Collars, Negligee and Dress Shirts.
Claims use since 1917.

270,266. (CLASS 45. BEVERAGES, NONALCOHOLIC.) NATALE OLIVIERI, doing business as Specialty Bottling Co., Garfield, N. J. Filed Feb. 17, 1930. Serial No. 296,141.

FRENCH DRY

For Ginger Ale, a Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup for Making the Same.
Claims use since Jan. 5, 1929.

270,267. (CLASS 10. FERTILIZERS.) THE DAVEY TREE EXPERT CO., Kent, Ohio. Filed Feb. 12, 1930. Serial No. 295,928.

DAVEY
SHREDDED
CATTLE MANURE

For Manure.
Claims use since May, 1926.

270,268. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SELF-SIPHON MFG. CO., Atlanta, Ga. Filed Feb. 21, 1930. Serial No. 296,307.

SELF-SIPHON

For Automatic Siphons.
Claims use since Jan. 14, 1929.

270,269. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALDO CANNING CO., Sheboygan, Mich. Filed Feb. 24, 1930. Serial No. 296,459.

Waldo

For Canned Vegetables.
Claims use since Sept. 1, 1909.

270,270. (CLASS 39. CLOTHING.) WEARFINE PANTS CORP., New York, N. Y. Filed Feb. 26, 1930. Serial No. 296,558.

WEARFINE

For Boys' Knickers and Knee Pants.
Claims use since 1919.

270,271. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED WOLFERMAN, INCORPORATED, Kansas City, Mo. Filed Nov. 18, 1929. Serial No. 292,564.

"Good Things to Eat"

For Canned Fish, Canned Shellfish, Sugars, Maple Syrup, Canned Mushroom Broth, Canned Tomato Purée, Canned Tomato Juice, Canned Pineapple Juice, for Food Purposes.
Claims use on butter, eggs, jam, jellies, marmalade, fruit butters, canned and dried vegetables, and canned, pickled, spiced and preserved fruits, since 1900; on vinegar, olives since 1910; on salad dressing, French dressing, sandwich fillers, and tartar sauce, since 1920; on mince meat, since 1926; on puddings since 1927; and on dried fruits since 1928.

270,272. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) ANSALEM ORVILLE COBBS, doing business as Cobbs Manufacturing Co., Des Moines, Iowa. Filed Nov. 21, 1929. Serial No. 292,655.

WRAP-ON

The lining in the drawing is for shading and does not represent any particular color.
For Automobile Operator's Credentials Holder.
Claims use since Feb. 10, 1928.

270,273. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) I. M. FRIEDMAN & CO., INC., New York, N. Y. Filed Aug. 30, 1928. Serial No. 271,749.

PERRY PRINTS

For Printed Piece Goods Made from Silk, Cotton, Rayon, and Wool.
Claims use since Aug. 20, 1928.

270,274. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORITA V. DOAN, Westwood, Calif. Filed Oct. 19, 1928. Serial No. 274,000.

BATH-O-OIL

For a Liquid—Namely, Oil and Perfumes for Baths.
Claims use since December, 1926.

270,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANGEL GARCIA COLLAZO, Buenos Aires and Rosario de Santa Fé, Argentina. Filed Nov. 16, 1928. Serial No. 275,421.

"COLLAZO"

For Medicinal Pills Particularly for Headaches and Rheumatism, Laxatives and Purgatives, Pills, Medicinal Powders for Headaches and Douches, and Medicinal Syrups, Particularly Cough Syrups.
Claims use since Mar. 31, 1925.

270,276. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) WICKWIRE SPENCER STEEL COMPANY, New York, N. Y. Filed Mar. 9, 1929. Serial No. 280,530.

Guardedge

For Woven Wire Conveyor Belts.
Claims use since Dec. 15, 1928.

270,277. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ROE TANNER, Attica, Ohio. Filed Apr. 23, 1929. Serial No. 282,883.

SURE-FLIER



Lined for red and green.
For Toy Flying Machines.
Claims use since Feb. 27, 1929.

270,278. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. C. AMBRY, Jersey City, N. J. Filed Jan. 4, 1930. Serial No. 294,874.

AMBRY'S SAPO RUB

For Salve Used for Pains and Sprains.
Claims use since Jan. 1, 1929.

270,279. (CLASS 38. PRINTS AND PUBLICATIONS.) THE PHILADELPHIA INQUIRER CO., Philadelphia, Pa. Filed Jan. 13, 1930. Serial No. 294,738.

THE FASHION LEAGUE OF PHILADELPHIA

For a Fashion Page in a Weekly Newspaper.
Claims use since Mar. 24, 1929.

270,280. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDREW W. COMSTOCK, doing business as 2 Minit Laboratories, Chicago, Ill. Filed Feb. 3, 1930. Serial No. 295,504.

Shav'massage

For a Combination Nonlather Shaving and Roll-Out Massage Cream.
Claims use since May 1, 1928.

270,281. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LONNIE CLEVELAND MCMANUS, Tullahoma, Tenn. Filed Feb. 8, 1930. Serial No. 295,802.

MACK'S

For Candies, Salted Nuts, and Sandwiches.
Claims use since Mar. 15, 1925.

270,282. (CLASS 48. MALT BEVERAGES AND LIQUORS.) THE GEO. GUNTHER JR. BREWING CO., Baltimore, Md. Filed Feb. 14, 1930. Serial No. 296,011.

Carolina
SPECIAL BREW

For Nonalcoholic, Cereal, Malt Beverages.
Claims use since Jan. 1, 1928.

270,283. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. R. CARSON, Hampton, Va. Filed Feb. 24, 1930. Serial No. 296,304.

CARSON'S
QUALITY BRAND

For Fresh Sea Food—Namely, Crabs, Scallops, Fish, Fish Roe, Crab Meat—and Canned Oysters.
Claims use since February, 1928.

270,284. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GENERAL TALKING PICTURES CORPORATION, New York, N. Y. Filed Mar. 3, 1930. Serial No. 296,738.

BEST SOUND IN TOWN

For Sound-Picture Apparatus—Namely, Apparatus and Parts Thereof for Recording and Reproducing in Combination Sound and Light Effects.
Claims use since Nov. 1, 1928.

270,285. (CLASS 37. PAPER AND STATIONERY.) GRAFO PENCIL COMPANY, LTD., Ceske Budejovice, Czechoslovakia. Filed Mar. 10, 1930. Serial No. 297,072.

CZECHO PENCIL

For Lead and Copying Pencils.
Claims use since Jan. 20, 1921.

270,286. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SOUTH BEND BAIT CO., South Bend, Ind. Filed Mar. 19, 1930. Serial No. 297,569.

ANTI-BACK-LASH

For Fishing Reels and Casting Reels.
Claims use since on or about Jan. 1, 1910.

270,287. (CLASS 39. CLOTHING.) CORNELL SHOE CO., INC., New York, N. Y. Filed July 6, 1929. Serial No. 286,684.

CORNELL

For Men's, Women's, and Children's Shoes Made of Leather and Textile Materials and Combinations Thereof.
Claims use since January, 1929.

270,288. (CLASS 15. OILS AND GREASES.) OILRITE CORPORATION, Red Bank, N. J. Filed Aug. 19, 1929. Serial No. 288,718.

OILRITE

For Petroleum Products, Consisting of Motor Lubricating Oils, Motor Fuel Oils, Lubricating Greases for All Kinds of Machinery, Kerosene, and Gasoline.
Claims use since May, 1926.

270,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. E. EASTERWOOD, Jr., doing business as Wm. E. Easterwood Jr., Co., Dallas, Tex. Filed Nov. 4, 1929. Serial No. 291,966.

Smoke 2 then CHEW

For Listerated Gum.
Claims use since Feb. 19, 1929.

270,290. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STANDARD MOTOR TRUCK COMPANY, Detroit, Mich. Filed Aug. 15, 1929. Serial No. 288,575.

Fisher Heavy Duty Six

For Motor Delivery Trucks and Chassis.
Claims use since October, 1926.

270,291. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORA WILDHACK, La Crescenta, Calif. Filed Sept. 16, 1929. Serial No. 289,862.

PALM SPRINGS

For Orange Marmalade.
Claims use since Mar. 25, 1923.

270,292. (CLASS 45. BEVERAGES, NONALCOHOLIC.) DR. PEPPER COMPANY, Dallas, and Waco, Tex., and St. Louis, Mo. Filed Feb. 7, 1930. Serial No. 295,758.

WACO

For Nonalcoholic, Maltless, Tonic Beverages Sold as a Soft Drink and Syrups for Making the Same.
Claims use since Jan. 2, 1926.

270,293. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) STANDARD MOTOR TRUCK COMPANY, Detroit, Mich. Filed Aug. 15, 1929. Serial No. 288,572.

Fisher Fast Freight

For Motor Delivery Trucks and Chassis.
Claims use since February, 1925.

270,294. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BOYE NEEDLE CO., Chicago, Ill. Filed July 8, 1929. Serial No. 286,549.

"BOYE"

For Stainless Steel Spoons, Skimmers, Forks, Pancake Turners, Spatulas, and Knives.
Claims use since Sept. 27, 1928.

270,295. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SHARPLES SPECIALTY COMPANY, Philadelphia, Pa. Filed Feb. 7, 1930. Serial No. 295,764.

SHARPLES SUPER-CENTRIFUGE

For Centrifugal Machines for Dewaxing of Petroleum Oil and Fractions Thereof and of Coal, Lignite, and Shale Tar and Fractions Thereof; Removal of Water from Crude Petroleum; Recovery and Clarification of Cottonseed Oil, Olive Oil, Linseed Oil, Fish Oil, Fruit Juices, Wool Grease, Cocoa Butter, and Malt Extract; Concentration and Purification of Rubber Latex; Purification of Switch Insulating Oil, Transformer Insulating Oil, Turbine-Lubricating Oil, Internal-Combustion-Engine-Lubricating Oil, and Soap; Recovery and Concentration of Bacteria and Serums, Acid Treating of Oil without Emulsification, Removal of Sludge from Acid-Treated and Oxidized Oils, Grading of Chocolate, Purification and Recovery of Paper Pulp, Purification of Lacquers and Varnishes, Recovery of Bacilli from Culture Media or Concentration of Such Bacilli, Separation of Shipboard Emulsions; Separation of Solids Mixed with Liquids Including Salt, Sugar, and Ammonium Sulphate.
Claims use since about January, 1916.

TRADE-MARK REGISTRATIONS RENEWED

76,999. STEEL. Registered March 1, 1910. HENRY ROSSELL & CO., LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed March 1, 1930.

77,729. CERTAIN METALS AND METAL ARTICLES. Registered May 3, 1910. HENRY ROSSELL & CO., LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed May 3, 1930.

77,730. MACHINE TOOLS. Registered May 3, 1910. HENRY ROSSELL & CO., LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed May 3, 1930.

78,179. CHOCOLATES. Registered May 31, 1910. INGERSOL CANDY CO., San Diego, Calif., a Corporation of California. Renewed May 31, 1930.

78,745. TEA AND BLENDED COFFEE. Registered July 5, 1910. THURSTON & KINGSBURY. Renewed July 5, 1930, to Thurston & Kingsbury Co., Bangor, Me., a Corporation of Maine, successor.

78,792. CERTAIN FOODS. Registered July 12, 1910. GORDON & DILWORTH. Renewed July 12, 1930, to Gordon & Dilworth, Inc., Roselle, N. J., and New York, N. Y., a Corporation of New York, assignee by mesne assignments.

79,009. CERTAIN TOOLS. Registered July 26, 1910. HENRY ROSSELL & CO., LIMITED, Sheffield, England, a Corporation of Great Britain. Renewed July 26, 1930.

79,237. PAINTERS' MATERIALS. Registered August 16, 1910. THE STOCKTON PAINT COMPANY, Stockton, Calif., a Corporation of California. Renewed August 16, 1930.

LABELS

REGISTERED APRIL 29, 1930

37,390.—*Title:* BARKER'S MINERALTONE FOR COWS. For Powders Composed of Minerals, Alteratives, and Correctives for Cows. THE BARKER, MOORE & MEIN CO., INC., Philadelphia, Pa. Published March 7, 1930.

37,391.—*Title:* BARKER'S MINERALTONE FOR HOGS. For Powders Composed of Minerals, Alteratives, and Correctives for Hogs. THE BARKER, MOORE & MEIN CO., INC., Philadelphia, Pa. Published March 7, 1930.

37,392.—*Title:* BARKER'S SPECIAL POULTRY POWDER. For Powders Composed of Minerals, Alteratives, and Correctives for Poultry. THE BARKER, MOORE & MEIN CO., INC., Philadelphia, Pa. Published March 7, 1930.

37,393.—*Title:* EL ESTADO LEMON CREME. For Face Cream. EL ESTADO PRODUCTS COMPANY, Seattle, Wash. Published March 20, 1930.

37,394.—*Title:* EL ESTADO LEMON CREME. For Face Cream. EL ESTADO PRODUCTS COMPANY, Seattle, Wash. Published March 20, 1930.

37,395.—*Title:* FRANCK TABLETS. For Chicory Product. HEINR. FRANCK SONS, INC., Flushing, N. Y. Published March 24, 1930.

37,396.—*Title:* GIBBS OYSTERO. For Oyster Stew. GIBBS & COMPANY, INCORPORATED, Baltimore, Md. Published March 25, 1930.

37,397.—*Title:* THE WORLD'S FINEST INSTRUMENT WITH HOMOGENOUS SOUNDING BOARDS. For Pianos, Grand Pianos, and Other Keyboard Music Instruments. GROTRIAN-STEINWEG, Brunswick, Germany. Published December 30, 1929.

37,398.—*Title:* HITT'S MOONLIGHT SILVER FALLS. For Pyrotechnic Novelties. HITT FIREWORKS CO., Seattle, Wash. Published March 9, 1930.

37,399.—*Title:* SKIN-HEALTH. For Bath Compound. A. J. KRANK MFG. CO., St. Paul, Minn. Published December 28, 1927.

37,400.—*Title:* OLD SCOTCH. For Liniment. OLD SCOTCH REMEDIES, Chelsea, Mass. Published January 3, 1930.

37,401.—*Title:* CALCIUM GLUCO-NATE SANDOZ. For Chemical Preparation Containing Calcium. SANDOZ CHEMICAL WORKS, INC., New York, N. Y. Published September 26, 1929.

37,402.—*Title:* E-Z SHAVE. For a Preparation to be Used Before Shaving. SMITH BROS., Minneapolis, Minn. Published February 25, 1930.

37,403.—*Title:* HELLO—WORLD. For Cigars. E. B. STRICKLER, York, Pa. Published March 15, 1930.

37,404.—*Title:* READY FIT CAPS ADJUSTABLE PATENTED FITS ANY SIZE HEAD. For Caps. TRADE LITHOGRAPH & PRINTING COMPANY INC., New York, N. Y. Published February 10, 1928.

PRINTS

REGISTERED APRIL 29, 1930

12,499.—*Title:* CUT-RITE WAXED PAPER KEEPS FOOD FRESH—CLEAN. For Waxed Paper. AUTOMATIC PAPER MACHINERY CO., INC., Elizabeth, N. J. Published February 15, 1930.

12,500.—*Title:* FACTORY TO ROOF. For Asphaltic Roll Roofing. ELABORATED READY ROOFING COMPANY, Chicago, Ill. Published June 18, 1929.

12,501.—*Title:* YES SIR! THAT'S HILLS BROS. COFFEE. For Coffee. HILLS BROS., San Francisco, Calif. Published March 1, 1930.

12,502.—*Title:* REAL HOSE REEL REAL BED TABLE. For Hose Reels and Bed Tables. OTTO H. LADEWIG, Chicago, Ill. Published August 19, 1929.

12,503.—*Title:* COLD TEMPERATURES FOR WARM FRIENDS. For Refrigerating and Ice-Making Machines. LOUIS A. ROSER, Salt Lake City, Utah. Published December 3, 1929.

12,504.—*Title:* PROTECT YOUR HOME . . . INSECTS ARE DANGEROUS. For Insecticides. STANCO INCORPORATED, New York, N. Y., and Wilmington, Del. Published July 10, 1929.

12,505.—*Title:* FLIT KILLS FLIES AND MOSQUITOES. For Insecticides. STANCO INCORPORATED, New York, N. Y., and Wilmington, Del. Published March 19, 1929.

12,506.—*Title:* FLIT KILLS EASIER, QUICKER. For Insecticides. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Published March 19, 1929.

12,507.—*Title:* NO FLIES OR SKEETERS IN OUR HOUSE. For Insecticide. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Published July 10, 1929.

12,508.—*Title:* PROTECT THE HOME, SPRAY FLIT. For Insecticides. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Published May 6, 1929.

12,509.—*Title:* HEALTHY HAPPY HOMES SPRAY FLIT. For Insecticides. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Published May 6, 1929.

12,510.—*Title:* THE ZIG-ZAG. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 5, 1930.

12,511.—*Title:* THE CHANTICLEER. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 19, 1930.

12,512.—*Title:* THE LONE STAR. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 11, 1930.

12,513.—*Title:* THE HARRISON ROSE. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 5, 1930.

12,514.—*Title:* TREE OF PARADISE. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 11, 1930.

12,515.—*Title:* THE CONVENTIONAL TULIP. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 5, 1930.

12,516.—*Title:* JACOB'S LADDER. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 5, 1930.

12,517.—*Title:* THE MOUNTAIN STAR. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 14, 1930.

12,518.—*Title:* THE SUNFLOWER. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 11, 1930.

12,519.—*Title:* PRINCESS FEATHER. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 19, 1930.

12,520.—*Title:* THE GUIDE POST. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 11, 1930.

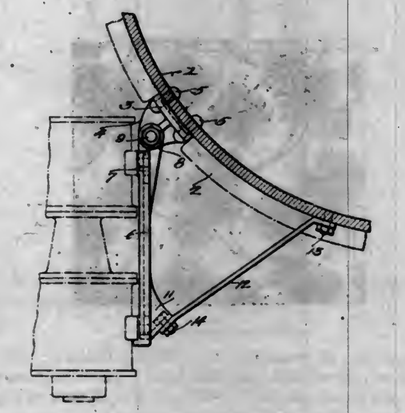
12,521.—*Title:* THE SHAMROCK. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 11, 1930.

12,522.—*Title:* THE IRIS. For Quilting Cotton. THE STEARNS & FOSTER CO., Lockland, Cincinnati, Ohio. Published February 19, 1930.

REISSUES

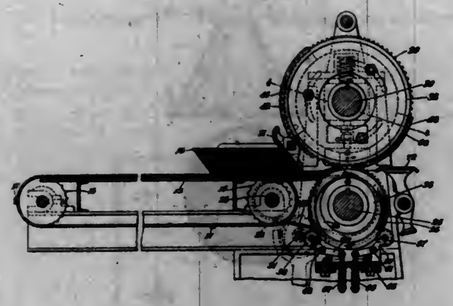
APRIL 29, 1930

17,652. SUPPORT FOR LOCOMOTIVE AIR PUMPS, ETC. LAWRENCE L. NEEBE, Woodbury, N. J. Filed Mar. 20, 1930. Serial No. 438,848. Original No. 1,668,570, dated May 8, 1928, Serial No. 188,991, filed May 5, 1927. 2 Claims. (Cl. 103—218.)



1. The combination in a support for air pumps and the like on a locomotive boiler, of a bracket having a base shaped to fit the shell of the boiler and having lugs projecting from the base; a frame having knuckles; pivot-bolts connecting the knuckles of the frame to the lugs on the bracket; and a wide brace plate secured to the lower end of the frame and to the shell of the boiler.

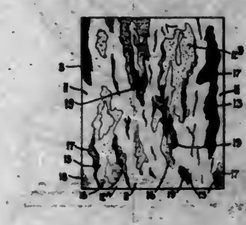
17,653. ROTARY BOX-BLANKING MACHINE. LOUIS HENRY SCHROEDER, Woodhaven, and JOSHUA WAGNER, Brooklyn, N. Y., assignors to Progressive Corrugated Machinery Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Sept. 10, 1925. Serial No. 55,634. Original No. 1,493,404, dated May 6, 1924, Serial No. 610,604, filed Jan. 4, 1923. 23 Claims. (Cl. 93—58.)



14. In a paper machine, the combination of a pair of co-operating disks for slotting a blank, a scoring wheel for scoring said blank and means whereby said slotting disks and scoring wheel are connected to move in unison in axial directions.

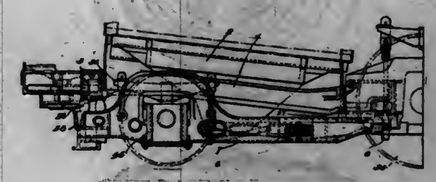
21. In a paper machine, the combination of a pair of shafts, co-operating slotting disks mounted on said shafts, a member, in fixed relation to one slotting disk in respect to axial movements of said disks, and a scoring disk rotatably mounted on said member and maintained thereby in predetermined fixed relation to slotting disks.

17,654. SURFACE ORNAMENTATION. JOHN J. WEBER, Wilmette, Ill., assignor to J. H. Jochum, jr., Chicago, Ill. Filed Apr. 18, 1927. Serial No. 184,782. Original No. 1,608,281, dated Nov. 23, 1926, Serial No. 91,868, filed Mar. 3, 1926. 7 Claims. (Cl. 41—30.)



1. The method of producing surface ornamentation, which consists in unevenly applying to a surface material of a semi-plastic or comparatively thick consistency, then manipulating the surface of said material to roughen the same, then introducing coloring matter in different areas of the material, then allowing the same to dry, then partially smoothing the roughened material to smooth off portions of the high spots, then coating the exposed surface, then removing the last recited coating from the high spots, then applying a filler of a different color to fill in the crevices or low areas, and finally when dry polishing the entire exposed surface of the coating material.

17,655. LOCOMOTIVE TRAILER TRUCK. CHARLES T. WESTLAKE, deceased, St. Louis, Mo., by Commonwealth Steel Company, Granite City, Ill., assignee, assignor, by mesne assignments, to General Steel Castings Corporation, Granite City, Ill., a Corporation of Delaware. Filed Aug. 17, 1929. Serial No. 386,625. Original No. 1,675,679, dated July 3, 1928, Serial No. 20,832, filed Apr. 4, 1925. 14 Claims. (Cl. 105—174.)



1. A locomotive having a cradle and a trailer truck connected thereto, a bearing between said cradle and said trailer truck, and means as a part of said bearing for regulating the normal load of said trailer truck.

DESIGNS

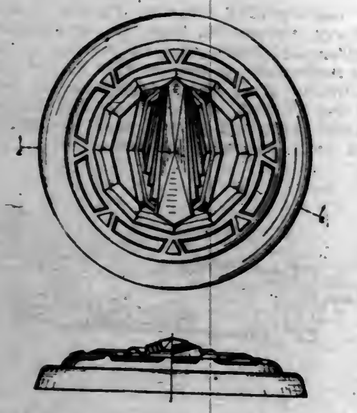
APRIL 29, 1930

81,044. COVER PLATE FOR SOUND-WAVE APPARATUS OR SIMILAR ARTICLE. JOHN M. AUFIERO, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 29, 1929. Serial No. 33,580. Term of patent 14 years.



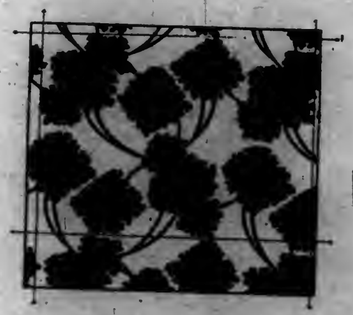
The ornamental design for a cover plate for sound wave apparatus or similar article, as shown.

81,045. COVER PLATE FOR SOUND-WAVE APPARATUS OR SIMILAR ARTICLE. JOHN M. AUFIERO, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Nov. 29, 1929. Serial No. 33,581. Term of patent 14 years.



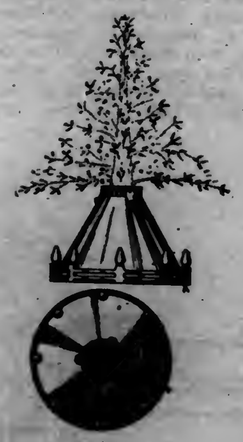
The ornamental design for a cover plate for sound wave apparatus or similar article, as shown.

81,046. TEXTILE FABRIC. FRED W. BADER, Hillsdale, N. J., assignor to J. Kridel, Sons & Co., a Partnership of New York. Filed Jan. 18, 1930. Serial No. 34,177. Term of patent 3½ years.



The ornamental design for a textile fabric as shown and described.

81,047. CHRISTMAS-TREE SUPPORT. JOSEPH BLOCK, Brooklyn, N. Y., assignor to Noma Electric Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1929. Serial No. 30,141. Term of patent 14 years.



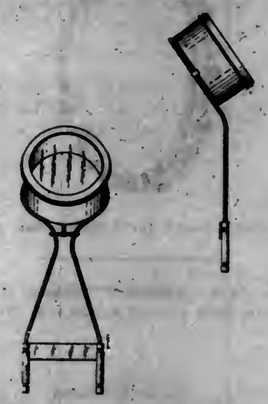
The ornamental design for a Christmas tree support substantially as shown and described.

81,048. CABINET FOR A SOUND-REPRODUCING INSTRUMENT OR THE LIKE. NATHAN P. BLOOM, Louisville, Ky., assignor to Adler Manufacturing Co., Louisville, Ky., a Corporation of Kentucky. Filed June 24, 1929. Serial No. 31,817. Term of patent 3½ years.



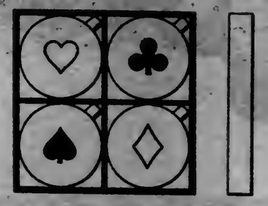
The ornamental design for a cabinet for a sound reproducing instrument or the like as shown.

81,049. WREATH HOLDER. ROBERT BURNS, Toronto, Ontario, Canada. Filed Feb. 24, 1930, Serial No. 34,627, and in Canada Oct. 25, 1929. Term of patent 3½ years.



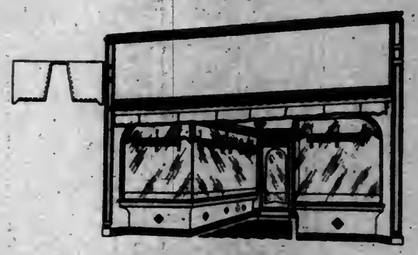
The ornamental design for a wreath holder as shown.

81,050. COMBINED SET OF POWDER PUFFS AND CONTAINER THEREFOR. JOSEPH J. COSIN, Newark, N. J. Filed Apr. 18, 1929. Serial No. 30,888. Term of patent 7 years.



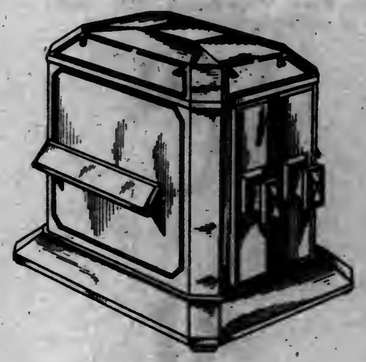
The ornamental design for a combined set of powder puffs and container therefor, substantially as shown.

81,051. STORE FRONT. JOHN J. DALY, West Newton, Mass., assignor to Spencer Chain Stores, Inc., Malden, Mass., a Corporation of Massachusetts. Filed Nov. 11, 1929. Serial No. 33,412. Term of patent 14 years.



The ornamental design for a store front, as shown.

81,052. BREAD TOASTER. HOWARD S. DENISON, Wichita, Kans., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Filed Feb. 21, 1930. Serial No. 34,604. Term of patent 7 years.



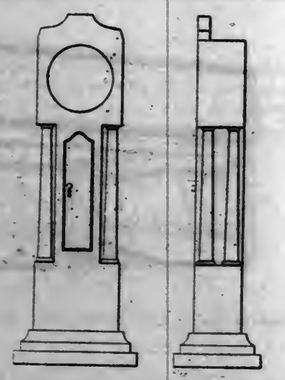
The ornamental design for a bread toaster as shown.

81,053. INCINERATOR. FRANK X. ENDERLE, Los Angeles, Calif. Filed Sept. 23, 1929. Serial No. 32,842. Term of patent 7 years.



The ornamental design for an incinerator, substantially as shown and described.

81,054. CLOCK FRAME. ALEXANDER HART, New York, N. Y. Filed Feb. 8, 1930. Serial No. 34,461. Term of patent 14 years.



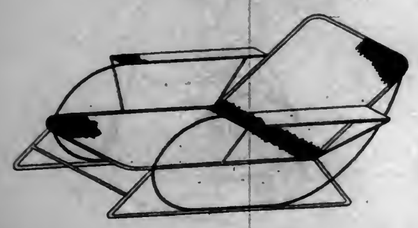
The ornamental design for a clock frame as shown.

81,055. AVIATOR'S HELMET. FREEMAN F. HEATER, Seattle, Wash. Filed July 2, 1929. Serial No. 31,928. Term of patent 14 years.



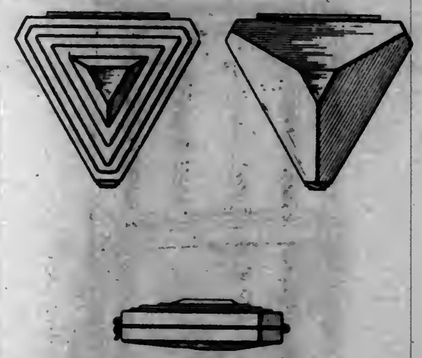
The ornamental design for an aviator's helmet, as shown and described.

81,056. CHAIR. MARIE KIRKPATRICK, Grand Rapids, Mich., assignor to Ficks Reed Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 27, 1929. Serial No. 33,961. Term of patent 3½ years.



The ornamental design for a chair, as shown and described.

81,057. VANITY CASE OR SIMILAR CONTAINER. ABRAHAM KLEIN and LEO ESTEROW, New York, N. Y., assignors to Columbia Stamping Products Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 31, 1930. Serial No. 34,367. Term of patent 7 years.



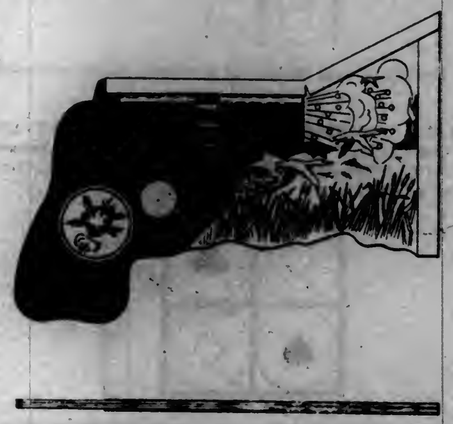
The ornamental design for a vanity case or similar container, as shown.

81,058. FINGER RING. CHARLES M. LEVY, New York, N. Y. Filed Jan. 17, 1930. Serial No. 34,166. Term of patent 14 years.



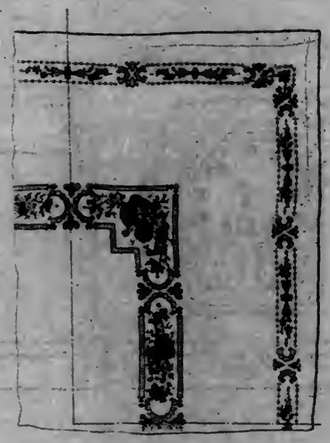
The ornamental design for a finger ring, as shown.

81,059. TOY GUN. ALBERT T. LINNEY, Lexington, Ky. Filed Feb. 10, 1930. Serial No. 34,473. Term of patent 7 years.



The ornamental design for a toy gun, as shown.

81,060. EMBROIDERED TABLE COVER OR THE LIKE. SALIM N. MALLOUK, Brooklyn, N. Y. Filed June 6, 1929. Serial No. 31,565. Term of patent 7 years.



The ornamental design for an embroidered table cover or the like as shown and described.

81,061. TUMBLER OR SIMILAR ARTICLE. JOHN E. MARSDEN, Philadelphia, Pa. Filed May 2, 1929. Serial No. 31,074. Term of patent 7 years.



The ornamental design for a tumbler or similar article as shown and described.

81,062. BUCKLE. GEORGE J. MEISEL and BENJAMIN SELESOV, New York, N. Y. Filed Feb. 8, 1930. Serial No. 34,462. Term of patent 3½ years.



The ornamental design for a buckle, as shown.

81,063. PERCOLATOR. AMBROSE D. OLDS, Wichita, Kans., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Filed Feb. 21, 1930. Serial No. 34,606. Term of patent 7 years.



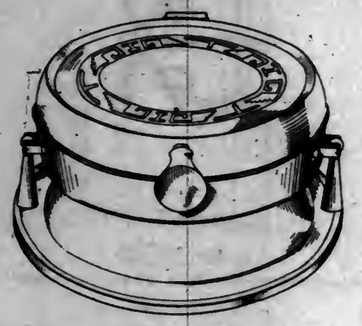
The ornamental design for a percolator as shown.

81,064. PERCOLATOR. AMBROSE D. OLDS, Wichita, Kans., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Filed Feb. 21, 1930. Serial No. 34,608. Term of patent 7 years.



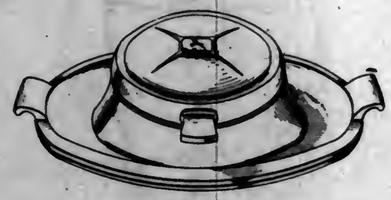
The ornamental design for a percolator as shown.

81,065. WAFFLE IRON. AMBROSE D. OLDS, Wichita, Kans., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Filed Feb. 21, 1930. Serial No. 34,609. Term of patent 7 years.



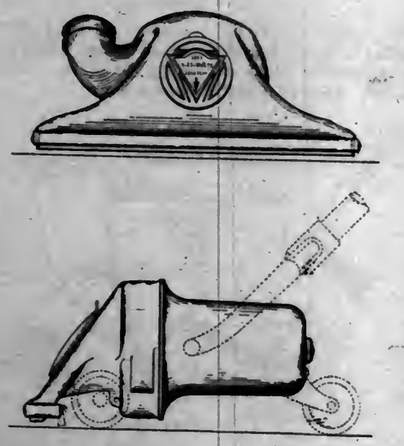
The ornamental design for a waffle iron as shown.

81,066. WAFFLE IRON. AMBROSE D. OLDS, Wichita, Kans., assignor to The Coleman Lamp & Stove Company, Wichita, Kans. Filed Feb. 21, 1930. Serial No. 34,610. Term of patent 7 years.



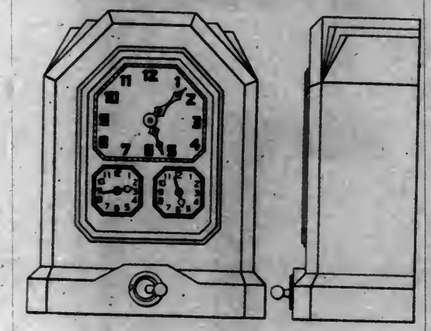
The ornamental design for a waffle iron as shown.

81,067. CASING FOR A SUCTION CLEANER OR SIMILAR ARTICLE. GERALD PAGE-WOOD, Evanston, Ill., assignor to The Hoover Company, a Corporation of Ohio. Filed Feb. 23, 1929. Serial No. 30,176. Term of patent 7 years.



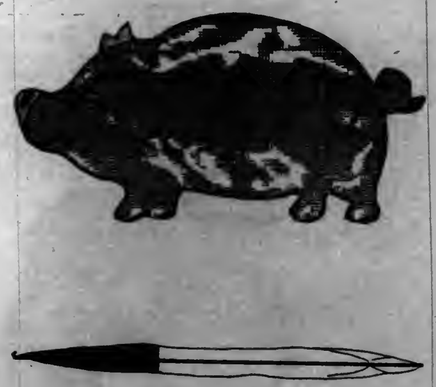
The ornamental design for a casing for a suction cleaner or similar article, as shown.

81,068. COMBINED CLOCK FRAME AND FACE. RAYMOND E. PATTEN, Oak Park, Ill., assignor to Edison Electric Appliance Company, a Corporation of New York. Filed Dec. 31, 1929. Serial No. 33,987. Term of patent 14 years.



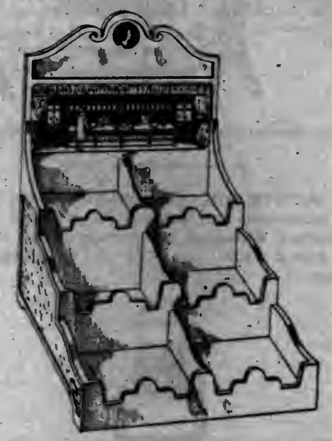
The ornamental design for a combined clock frame and face substantially as shown.

81,069. CUSHION. LUCILLE S. PATTERSON, Chicago, Ill. Filed Mar. 6, 1929. Serial No. 30,366. Term of patent 7 years.



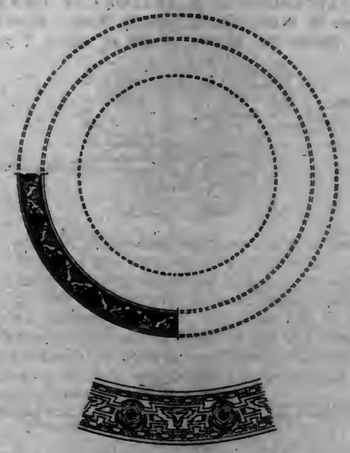
The ornamental design for a cushion as shown and described.

81,070. COMBINED VENDING AND DISPLAY STAND. ROBERT WALTER PHELPS, Chicago, Ill., assignor, by mesne assignments, to Julia King's Candy Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 13, 1930. Serial No. 34,118. Term of patent 7 years.



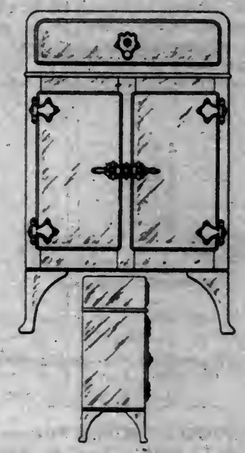
The ornamental design for a combined vending and display stand, as shown.

81,071. BORDER STRIP FOR SERVICE WARE. HENRY A. PICKARD, Chicago, Ill. Continuation of design application Serial No. 30,948, filed Apr. 19, 1929. This application filed Nov. 16, 1929. Serial No. 33,459½. Term of patent 7 years.



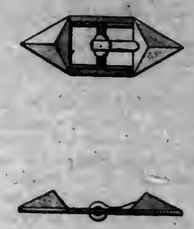
The ornamental design, for a border strip for service ware as shown and described.

81,072. REFRIGERATOR CABINET. HERMAN E. PLEASANT, Mansfield, Ohio, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1929. Serial No. 32,548. Term of patent 14 years.



The ornamental design for a refrigerator cabinet substantially as shown.

81,073. SHOE BUCKLE. GEORGE H. PULSIFER, Haverhill, Mass. Filed Feb. 18, 1930. Serial No. 34,525. Term of patent 8½ years.



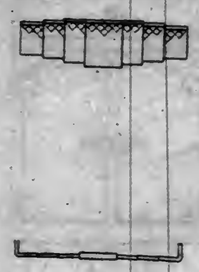
The ornamental design for a shoe buckle, substantially as shown.

81,074. VEHICLE SIGNAL. EDWARD EMIL RICH, Chicago, Ill. Filed Nov. 29, 1929. Serial No. 33,584. Term of patent 14 years.



The ornamental design for a vehicle signal, as shown.

81,075. SUSPENDER BUCKLE OR THE LIKE. LOWELL W. SHIELDS, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 3, 1929. Serial No. 32,652. Term of patent 3½ years.



The ornamental design for a suspender buckle or the like, as shown.

81,076. SHOE BUCKLE. WALTER EDWARD SMITH, Warwick Downs, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Feb. 14, 1930. Serial No. 34,536. Term of patent 3½ years.



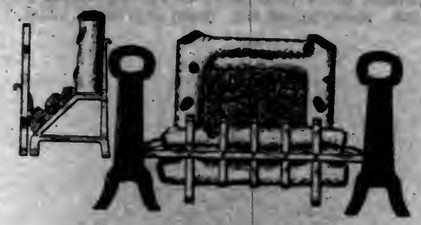
The ornamental design for a shoe buckle as shown.

81,077. SHOE BUCKLE. WALTER EDWARD SMITH, Warwick Downs, R. I., assignor to C. G. King & Co., Inc., Providence, R. I. Filed Feb. 14, 1930. Serial No. 34,537. Term of patent 3½ years.



The ornamental design for a shoe buckle as shown.

81,078. GAS HEATER. ARCHIE LEE SPANGLER, Los Angeles, Calif. Filed Oct. 8, 1929. Serial No. 32,974. Term of patent 7 years.



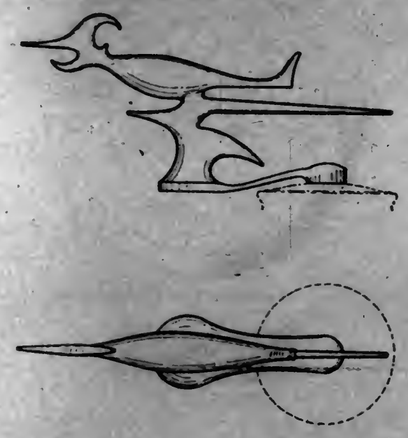
The ornamental design for a gas heater as shown.

81,079. BOTTLE FOR SOFT DRINKS. PAUL B. THOMPSON, Richmond, Va., assignor to National Pepsi-Cola Corporation, Richmond, Va., a Corporation of Virginia. Filed Apr. 3, 1929. Serial No. 30,728. Term of patent 14 years.



The ornamental design for a bottle for soft drinks as shown.

81,080. AUTOMOBILE RADIATOR-CAP ORNAMENT. STANLEY H. WADDINGHAM, Seattle, Wash. Filed Sept. 3, 1929. Serial No. 32,663. Term of patent 7 years.

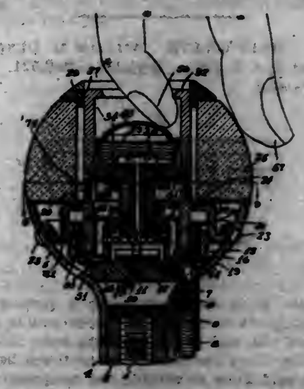


The ornamental design for an automobile radiator cap ornament, as shown.

PATENTS

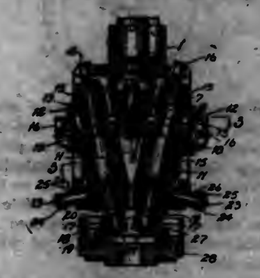
GRANTED APRIL 29, 1930

1,756,013. CIGAR LIGHTER. ALFRED F. JACKSON, Attleboro, Mass., assignor to Apco Mossberg Corporation, Attleboro, Mass., a Corporation of Massachusetts. Filed June 27, 1929. Serial No. 374,182. 4 Claims. (Cl. 219—32.)



4. In a cigar lighter of the kind described, a transparent base, a removable plunger in said base, an igniting element carried by said plunger, a terminal in said base connected to a suitable source of power, spring controlled means to normally retain said igniting element out of contact with said terminal, one end of said plunger having an open recess therein, and a spring pressed button to normally close the open end of said recess.

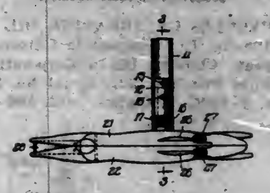
1,756,014. LAPPING TOOL. RAY D. STERRY, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 11, 1929. Serial No. 345,941. 3 Claims. (Cl. 51—108.)



1. A lapping tool comprising, in combination, a supporting frame, a plurality of hangers pivotally supported on said frame, a shaft rotatably mounted in each hanger, a lapping roll at the end of each shaft, said lapping rolls being conically disposed and arranged in a circular series whereby they are adapted to lap the inner surface of articles having a conical bore, spring devices engaging said hangers to force said lapping rolls against the work and means for rotating said shafts.

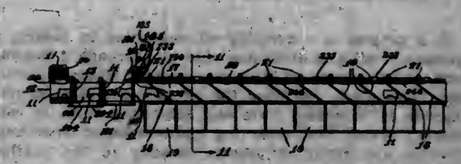
1,756,015. ANIMAL-RACING LURE. JOHN F. WHITE, Chicago, Ill., assignor to Harry B. Staver, Chicago, Ill. Filed Nov. 22, 1926. Serial No. 149,803. 2 Claims. (Cl. 272—4.)

1. The combination of a lure, a support adapted to travel over a race course, means rockingly mounting said lure forwardly of its center of gravity on the support in such position as to coact with the ground, a spring mounted on said lure to cushion the contacts of the latter with the ground, whereby the engagements of said spring with the ground during the travel of the support



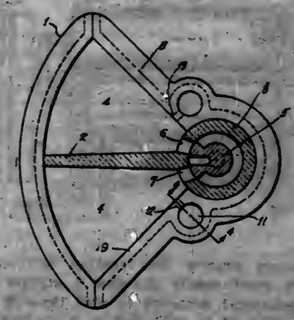
will cause the rear part of the lure to rock upwardly and its front part downwardly in simulation of the jumping actions of a live animal, and another spring associated with said lure to cushion the upward movement of the rear part of the same.

1,756,016. WEIGHTING AND GRADING MACHINE. WALLACE C. WRIGHT, Brookfield, N. H., assignor to Harding Engineering Company, East Boston, Mass., a Corporation of Massachusetts. Filed Aug. 20, 1927. Serial No. 214,417. 4 Claims. (Cl. 209—72.)



3. In a device of the kind described, the combination of means for feeding a plurality of pieces of hide or skin in succession, means for discovering cuts or holes in said skins, means for determining the thickness of the pieces of hide or skin, means for determining the degree of softness of the pieces of hide or skin, and electrically operated switching devices for segregating the pieces of hide or skin into groups in accordance with the different characteristics thereof.

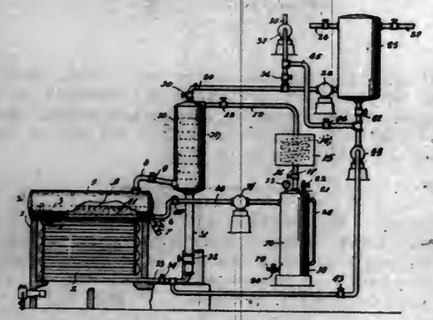
1,756,017. OSCILLATING ENGINE. JOHN BERGSEN, Sr., Brooklyn, N. Y. Filed Sept. 1, 1928. Serial No. 303,572. 3 Claims. (Cl. 121—41.)



1. In apparatus of the character described, an arcuate cylinder, a piston mounted to oscillate thereon, valvular

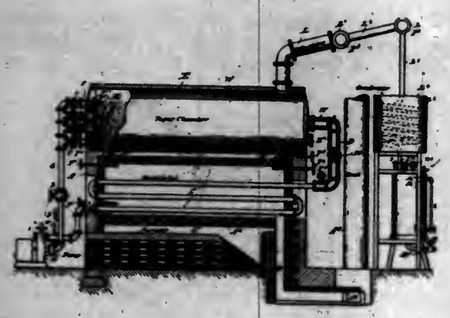
means for controlling the inlet and outlet of liquid to the cylinder at the opposite sides of the piston, an air receiver chamber located adjacent each end of the cylinder, a walled passage connecting the base of each air chamber to the corresponding end of the cylinder adjacent the base of the latter, the interiors of said air chambers being at all times in open communication with the interior of the cylinder, whereby air in said chambers is adapted to be trapped therein by liquid in the cylinder and to act as a cushion to preclude shocks incident to the operation of the piston in both directions.

1,756,018. PROCESS OF TREATING OIL. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Feb. 10, 1922, Serial No. 535,497. Renewed Nov. 2, 1925. 7 Claims. (Cl. 196—54.)



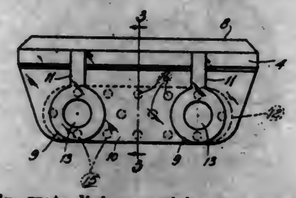
2. A process of converting oil, consisting in passing a mixture of oil and aluminum chloride, through a heating zone, and thence to an expansion chamber where vaporization takes place, removing the oil vapors and aluminum chloride in vaporized form and subjecting them to condensing action and returning the condensed aluminum chloride and reflux condensate directly to the heating zone.

1,756,019. PROCESS FOR PRODUCING LOWER-BOILING-POINT HYDROCARBONS. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Continuation of application Serial No. 260,956, filed Nov. 4, 1918. This application filed Jan. 14, 1925. Serial No. 2,449. Renewed Jan. 22, 1929. 1 Claim. (Cl. 196—59.)



A continuous process for treating hydrocarbon oils, consisting in continuously charging a stream of raw oil under a mechanical pressure to and through a heating coil wherein the oil is subjected to a cracking temperature, in discharging the heated oil constituents from said coil into an enlarged vapor chamber wherein substantial conversion of the oil occurs, in dephlegmating the evolved vapors, in condensing and collecting the dephlegmated vapors, in continuously withdrawing heavy carbon-containing residual oil from said vapor chamber, in continuously forcing light unvaporized residual oil from said vapor chamber under a mechanical pressure to said stream of raw oil to be passed therewith through said heating coil for retreatment, and in maintaining a definite ratio of the volume of oil to the volume of vapor space in said vapor chamber by regulating the level from which the light residual oil in the vapor chamber is withdrawn.

1,756,020. CHAIN GRATE. WILLIAM M. DUNCAN, Alton, Ill. Filed Apr. 2, 1928. Serial No. 266,521. 2 Claims. (Cl. 110—40.)



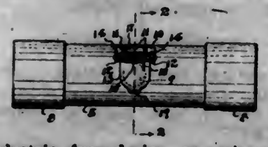
1. A chain grate link comprising a casting having a fuel supporting rib at the top, a web extending downwardly from said rib, and pivot receiving hubs integral with said web, the lower portion of the cast web being directly between said hubs to receive the compressive stresses transmitted from one pivot to the other, and a tension member embedded in said cast web and connecting said hubs to receive the tensile stresses transmitted from one pivot to the other.

1,756,021. ADVERTISEMENT. ANTONIO GRAU ESCASENA, Habana, Cuba. Filed Mar. 20, 1929, Serial No. 348,387, and in Cuba Mar. 7, 1929. 2 Claims. (Cl. 40—129.)



2. In advertisements, the arrangement of a casing engageable in one of its ends to the hub of a wheel; said casing having on its other end an opening; a shaft mounted loosely through a support embodied with the casing and within same; a disk secured to the shaft and having on its outer surface insignia visible through the opening of the casing, and an arm secured to the shaft, bearing a counterweight, the weight of which is equal to that of the disk.

1,756,022. INSPECTION AND VENTING MEANS FOR ELECTRIC FUSE DEVICES. FREDERICK A. FELDKAMP, Newark, N. J., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill., a Corporation of New York. Filed Dec. 22, 1928. Serial No. 327,782. 4 Claims. (Cl. 200—131.)



1. In an electric fuse device, an external casing to contain a fuse element having an opening in the wall

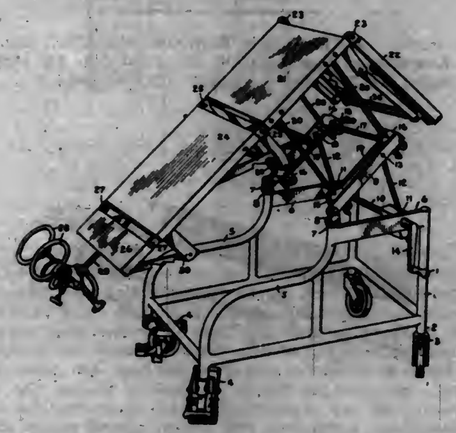
thereof providing direct communication between the interior of said casing and the surrounding atmosphere as well as means through which said fuse element may be inspected, a cover member for said opening, and means to yieldably retain said cover member in closed position and yet free to open under internal pressure.

1,756,023. FABRICATED NEWEL-POST CONSTRUCTION. HAROLD FELSENTHAL, Chicago, Ill., assignor to Guarsteel Safety Stair Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 2, 1927. Serial No. 237,312. 4 Claims. (Cl. 189—38.)



1. In a newel post, a pair of spaced side members, comprising metal plates, side flanges on the inner surfaces of the plates, a flange on each lateral extremity of the side members forming interior channel-ways in conjunction with adjacent side flanges, and a pair of side plates having flanged side extremities engaged in said channel-ways, the last mentioned pair of plates being clamped intermediate their lateral extremities between the edges of the lateral flanges and the sides of the end flanges of the first-mentioned pair of side members.

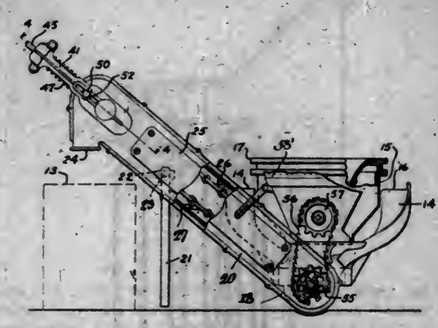
1,756,024. OPHTHALMIC TABLE. GUSTAVE A. GALLOWITZ, New York, N. Y., assignor to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed June 10, 1926. Serial No. 114,965. 4 Claims. (Cl. 45—50.)



2. In an ophthalmic table the combination of a base frame, a subframe pivoted thereon, means for elevating the other end of said subframe, a table top mounted on said subframe by means of uniform elevating means supported entirely in and operating from said subframe.

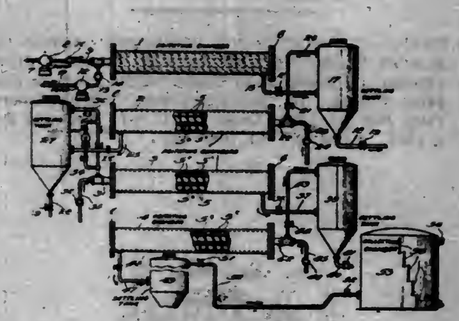
1,756,025. ASH-REMOVING DEVICE. CORTICE H. HALL, Paterson, N. J., assignor to Domestic Stoker Company, New York, N. Y., a Corporation of Delaware. Filed July 9, 1925. Serial No. 42,350. 10 Claims. (Cl. 110—165.)

4. In an ash remover for furnaces of the underfeed type, a horizontally arranged conveyor adapted to extend across the floor of the furnace ash pit beneath the fire pot and helically inclined ash directing members arranged to



receive ashes falling from the upper and outer edges of the fire pot and to deflect the ashes into the range of action of the conveyor.

1,756,026. PROCESS OF REFINING OILS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed June 6, 1923, Serial No. 643,777. Renewed Feb. 20, 1928. 2 Claims. (Cl. 196—45.)

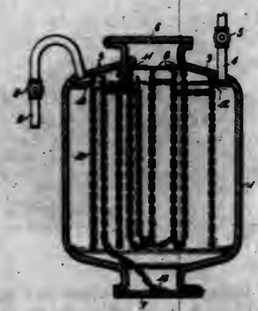


2. A process for refining oil, consisting in placing a stream of oil to be treated under a mechanically applied pressure, in simultaneously placing a stream of treating agent under a mechanical pressure, in uniting said stream of oil with said stream of the treating agent and in causing the commingled materials, while under mechanical pressure, to flow at high velocity in a spiral route through an elongated agitating vessel, and in causing the commingled materials to be partially deflected at intervals along said spiral route, wherein the oil and treating agent are rapidly caused to intimately commingle, in then introducing the commingled materials into an enlarged zone, wherein they assume a quiescent state, wherein the oil and treating agent separate, and in separately removing the oil and treating agent from said enlarged zone.

1,756,027. APPARATUS FOR REMOVING CARBONACEOUS DEPOSITS FROM OIL APPARATUS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 22, 1925, Serial No. 45,363. Renewed Feb. 2, 1929. 3 Claims. (Cl. 196—122.)

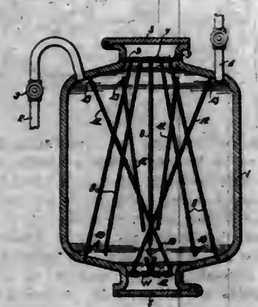
3. An apparatus for disrupting and removing carbon from an enlarged reaction chamber in an oil cracking ap-

paratus, comprising a single continuous flexible element releasably suspended intermediate its ends from a plurality of spaced points at the top of the chamber, different



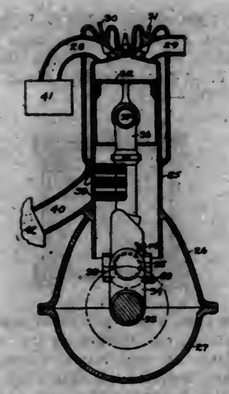
portions of said flexible element being disposed vertically through the mass of deposited carbon in the reaction chamber, said flexible element adapted to be withdrawn from the chamber to disrupt the carbon deposited therein.

1,756,028. APPARATUS FOR REMOVING CARBON DEPOSITS FROM OIL APPARATUS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 22, 1925, Serial No. 45,364. Renewed Feb. 2, 1929. 2 Claims. (Cl. 196—122.)



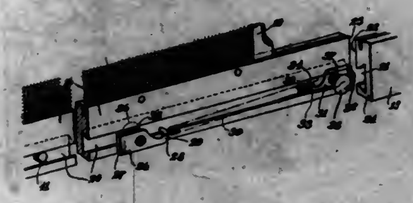
2. An apparatus for disrupting carbon deposits accumulating in the reaction chamber of an oil cracking apparatus, comprising an endless flexible element adapted to be releasably supported adjacent a normally closed enlarged opening in the chamber, a plurality of independent flexible members secured to said endless flexible element at spaced points thereof, said independent flexible members adapted to extend through said chamber and be releasably secured to the opposite end thereof, whereby said endless flexible element and said independent flexible members may be removed from the opening in said chamber as a unit.

1,756,029. INTERNAL-COMBUSTION ENGINE. HERBERT J. KLINE, Jackson, Mich. Filed July 5, 1927. Serial No. 203,345. 16 Claims. (Cl. 123—78.)



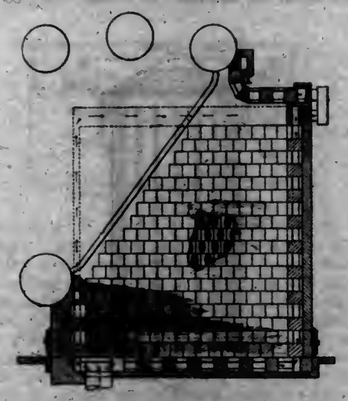
1. In an internal combustion engine, a cylinder, a combustion chamber, a piston, a port in said cylinder cut off from connection with said combustion chamber by said piston during normal low speed operation of said engine, and means actuated by the inertia forces acting on said piston beyond a predetermined engine speed for moving said piston to uncover said port.

1,756,030. ADJUSTABLE WINDOW SCREEN. RUBIN KOWNATZKY, New York, N. Y. Filed Oct. 18, 1928. Serial No. 313,206. 9 Claims. (Cl. 156—38.)



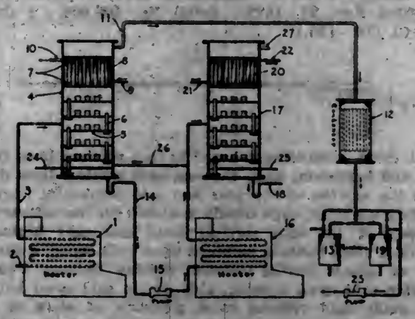
4. In a screen, a pair of overlapping sections, each section having a channel opening onto the surface which is concealed by the other section, said channels registering with each other to provide a chamber, a pair of anchors at opposite ends of said chamber and associated with the ends of said sections respectively, and spring means in said chamber and operatively extending between said anchors for yieldably urging said ends toward each other; said anchors being removably arranged within said channels respectively and having each a portion which seals the end of the channel and a guide pin which extends across the chamber into the opposite channel.

1,756,031. AIR-COOLED FURNACE BLOCK. VERNON G. LEACH, Chicago, Ill. Filed May 29, 1926. Serial No. 112,517. 8 Claims. (Cl. 110—1.)



1. A furnace block composed of fire clay having two rectangular portions integrally connected by a tie which has a portion of annular cross section of less width than the block.

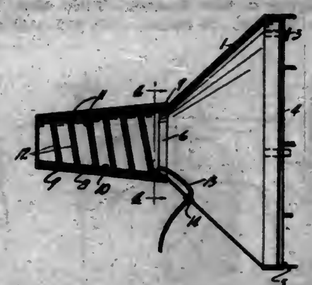
1,756,032. ART OF CONTINUOUS DISTILLATION. NATHANIEL E. LOOMIS, Westfield, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed June 8, 1922, Serial No. 566,748. Renewed May 17, 1928. 12 Claims. (Cl. 196—100.)



1. The improvement in the art of distilling petroleum hydrocarbons which comprises passing the hydrocarbons through a conduit in which they are heated to a temperature at which vaporization tends to occur, thence into a vapor-liquid separating zone, withdrawing therefrom the lighter constituents as vapor and the heavier constituents as liquid, imparting additional heat to heavier constituents in said zone by heating in a conduit and returning a part of said withdrawn heavier constituents, and withdrawing the vapors thereby evolved with said lighter constituents.

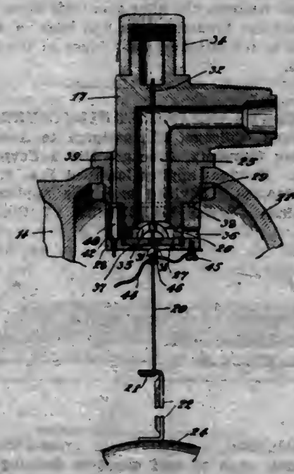
1,756,033. HEATING DEVICE. MONTE E. NORDAN, St. Louis, Mo. Filed Sept. 29, 1928. Serial No. 309,241. 1 Claim. (Cl. 219—39.)

In a device of the kind described, a conical air collector formed with relatively steep walls and having a flared mouth adapted to receive a conventional electric fan, the convergent end of the air collector being threaded, a plurality of spring clips around the margin of the flared mouth for releasably engaging the wire guard of the fan, a tapered, tubular heater casing having its wider end threaded for engagement with the convergent threaded end of the air collector, the walls of the said heater casing being sloped at a decidedly less degree than the walls of the air collector, a heat resisting lining for the inner face of the



casing, a dielectric coil holder, the same being spirally grooved upon its inner face, and a resistance element disposed within the said spiral groove of the coil holder.

1,756,034. VACUUM TANK. GEORGE RAMSEY, Brooklyn, N. Y. Filed Mar. 23, 1928. Serial No. 264,042. 7 Claims. (Cl. 103—236.)

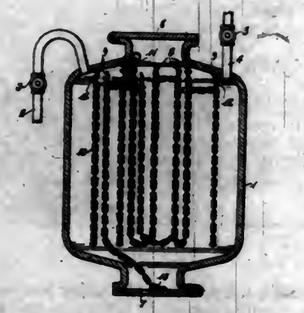


1. A vacuum tank for hydrocarbon engines comprising a receiving tank, a vacuum tank a cover for said vacuum tank, a fitting centrally located on said cover, a suction conduit in said fitting and leading to said vacuum tank, a suction control valve carried by said fitting and operable to open and close said conduit relative to said vacuum tank, means carried by said fitting for operating said suction control valve, a vent valve in said fitting for controlling a conduit from said vacuum tank leading to atmosphere, and a lever carried by said fitting and operated by said means to open said vent valve when said vacuum control valve is closed.

1,756,035. PROCESS FOR THE PRODUCTION OF COMBINATIONS OF RUBBER AND PAPER AND PRODUCT OBTAINED THEREBY. REED P. ROSS, Jackson Heights, and HAROLD E. CUDE, Floral Park, N. Y., assignors to General Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 9, 1925. Serial No. 61,571. 7 Claims. (Cl. 92—21.)

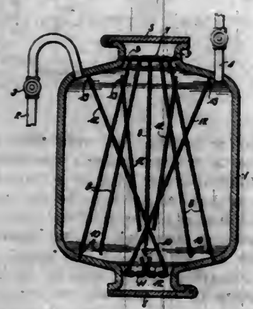
1. A process of manufacturing a waterproof paper which comprises beating paper making fibre, adding a protective colloid and an alkali thereto, mixing a dispersion of paper waterproofing material and a rubber dispersion with the beaten fibre, depositing the material and the rubber upon the fibre, and forming the treated fibre into a sheet.

paratus, comprising a single continuous flexible element releasably suspended intermediate its ends from a plurality of spaced points at the top of the chamber, different



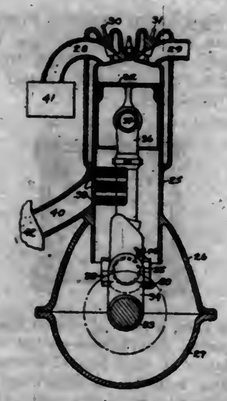
portions of said flexible element being disposed vertically through the mass of deposited carbon in the reaction chamber, said flexible element adapted to be withdrawn from the chamber to disrupt the carbon deposited therein.

1,756,028. APPARATUS FOR REMOVING CARBON DEPOSITS FROM OIL APPARATUS. LYMAN C. HUFF, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 22, 1925, Serial No. 45,364. Renewed Feb. 2, 1929. 2 Claims. (Cl. 196—122.)



2. An apparatus for disrupting carbon deposits accumulating in the reaction chamber of an oil cracking apparatus, comprising an endless flexible element adapted to be releasably supported adjacent a normally closed enlarged opening in the chamber, a plurality of independent flexible members secured to said endless flexible element at spaced points thereof, said independent flexible members adapted to extend through said chamber and be releasably secured to the opposite end thereof, whereby said endless flexible element and said independent flexible members may be removed from the opening in said chamber as a unit.

1,756,029. INTERNAL-COMBUSTION ENGINE. HUBERT J. KLINE, Jackson, Mich. Filed July 5, 1927. Serial No. 203,345. 16 Claims. (Cl. 123—78.)



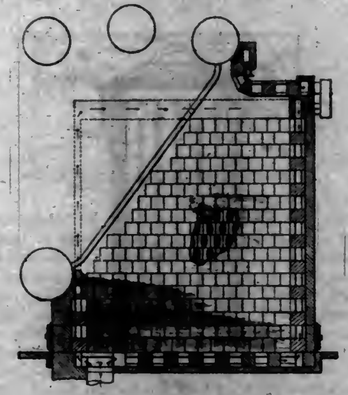
1. In an internal combustion engine, a cylinder, a combustion chamber, a piston, a port in said cylinder cut off from connection with said combustion chamber by said piston during normal low speed operation of said engine, and means actuated by the inertia forces acting on said piston beyond a predetermined engine speed for moving said piston to uncover said port.

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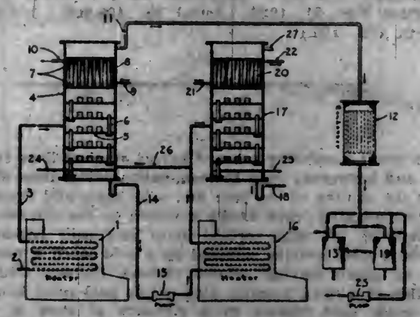
4. In a screen, a pair of overlapping sections, each section having a channel opening onto the surface which is concealed by the other section, said channels registering with each other to provide a chamber, a pair of anchors at opposite ends of said chamber and associated with the ends of said sections respectively, and spring means in said chamber and operatively extending between said anchors for yieldably urging said ends toward each other; said anchors being removably arranged within said channels respectively and having each a portion which seals the end of the channel and a guide pin which extends across the chamber into the opposite channel.

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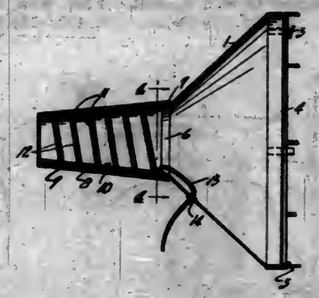
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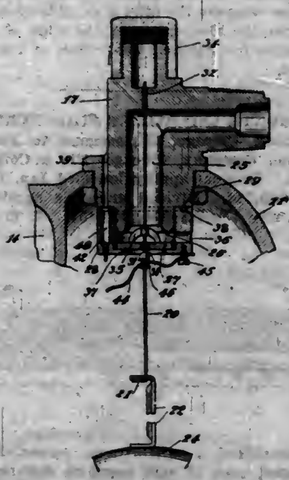
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In a device of the kind described, a conical air collector formed with relatively steep walls and having a flared mouth adapted to receive a conventional electric fan, the convergent end of the air collector being threaded, a plurality of spring clips around the margin of the flared mouth for releasably engaging the wire guard of the fan, a tapered, tubular heater casing having its wider end threaded for engagement with the convergent threaded end of the air collector, the walls of the said heater casing being sloped at a decidedly less degree than the walls of the air collector, a heat resisting lining for the inner face of the



casing, a dielectric coil holder, the same being spirally grooved upon its inner face, and a resistance element disposed within the said spiral groove of the coil holder.

1,756,034. VACUUM TANK. GEORGE RAMSEY, Brooklyn, N. Y. Filed Mar. 23, 1928. Serial No. 264,042. 7 Claims. (Cl. 103—236.)

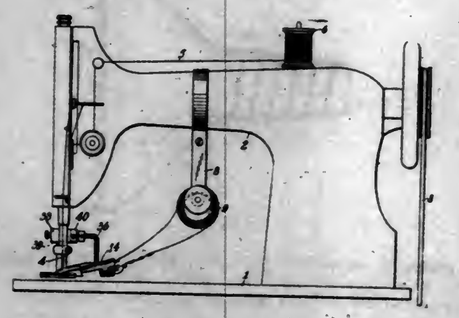


1. A vacuum tank for hydrocarbon engines comprising a receiving tank, a vacuum tank a cover for said vacuum tank, a fitting centrally located on said cover, a suction conduit in said fitting and leading to said vacuum tank, a suction control valve carried by said fitting and operable to open and close said conduit relative to said vacuum tank, means carried by said fitting for operating said suction control valve, a vent valve in said fitting for controlling a conduit from said vacuum tank leading to atmosphere, and a lever carried by said fitting and operated by said means to open said vent valve when said vacuum control valve is closed.

1,756,035. PROCESS FOR THE PRODUCTION OF COMBINATIONS OF RUBBER AND PAPER AND PRODUCT OBTAINED THEREBY. REED P. ROSS, Jackson Heights, and HAROLD E. CUDE, Floral Park, N. Y., assignors to General Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 9, 1925. Serial No. 61,571. 7 Claims. (Cl. 92—21.)

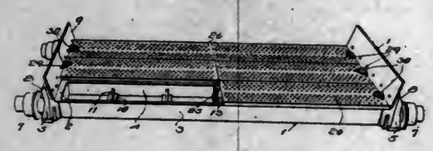
1. A process of manufacturing a waterproof paper which comprises beating paper making fibre, adding a protective colloid and an alkali thereto, mixing a dispersion of paper waterproofing material and a rubber dispersion with the beaten fibre, depositing the material and the rubber upon the fibre, and forming the treated fibre into a sheet.

1,756,036. SEWING MACHINE. CHARLES SEAMAN, Hollis, and GERHARD BRAF, Ozone Park, N. Y.; said Braf assignor to said Seaman. Filed Mar. 26, 1927. Serial No. 178,532. 19 Claims. (Cl. 112—138.)



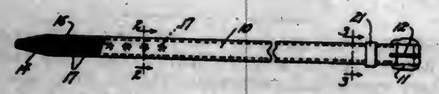
1. A sewing machine comprising means to guide a binding into position to be stitched to a piece of material, means for guiding a filler strip along one longitudinal edge of said binding, means for inturning the edge of said binding carrying the filler whereby the filler also folds upon itself, and means to fold the binding about the edge of said material, and means for stitching said edges of the binding to said material.

1,756,037. GRATE AND PALLET STRUCTURE. EDWARD W. SHALLOCK, Chicago, Ill., assignor to American Ore Reclamation Company, Chicago, Ill., a Corporation of New York. Original application filed Jan. 9, 1928, Serial No. 245,284. Divided and this application filed Dec. 3, 1928. Serial No. 325,457. 7 Claims. (Cl. 266—21.)



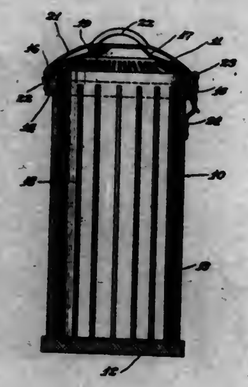
4. In combination, a pallet frame, cross-members bracing said frame, each of said members defining a socket, adapters fitting into the sockets and secured to the cross members, and grate sections seating upon the frame, said grate sections and the adapters having cooperating means releasably securing the sections to the adapters.

1,756,038. STRAP FOR SUITCASES, ETC. BENJAMIN H. SHWAYDER, Denver, Colo., assignor to Shwayder Trunk & Mfg. Co., Denver, Colo., a Corporation of Colorado. Filed Apr. 23, 1928. Serial No. 272,226. 5 Claims. (Cl. 24—17.)



1. A strap comprising a fabric band; a rubber envelope completely surrounding both faces and edges of said fabric band; a buckle secured at one extremity of said strap there being a series of buckle openings provided adjacent the other extremity thereof; and strengthening members adjacent said band and surrounding said buckle openings, said members being vulcanized into the interior of said rubber envelope.

1,756,039. RUBBER ICE-CREAM SHIPPER. SPENCER O. STAAKE, Eau Claire, Wis., assignor of one-half to Ralph W. Hutchens, Eau Claire, Wis. Filed Apr. 27, 1928. Serial No. 273,174. 6 Claims. (Cl. 150—52.)



1. A shipper for cans of perishable goods, such for example as ice-cream, comprising a relatively rigid container formed to receive and conform with the shape of the can and comprising a molded plastic construction, the wall of which is relatively flexible so as to enable the shipper to conform to any irregularities such as bumps in the wall of the can and the ends of which are shaped to tightly cooperate with the ends of the can.

1,756,040. CHART. BENJAMIN TAFT, Flushing, N. Y. Filed Nov. 21, 1929. Serial No. 408,906. 1 Claim. (Cl. 116—130.)



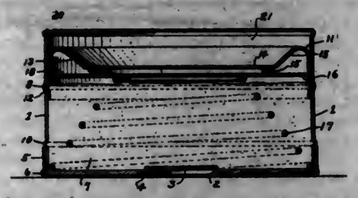
A chart comprising a board having vertical lines thereon and horizontal lines thereon, said vertical lines dividing the months of the year and said horizontal lines denoting quantity, pegs fixedly mounted on the intersecting points of the said vertical lines and said horizontal lines, a spool housing mounted upon said board, a plurality of spools having colored ribbons thereon mounted within said spool housing, pins within said spool housing to guide said ribbons to a plurality of slots in said spool housing, means on each spool to secure said ribbons to the aforesaid pegs, and spring means for rewinding said ribbon upon said spools.

1,756,041. INTERCHANGEABLE BRACELET AND BROOCH. ROBERT J. VANCE, Sr., Belleville, N. J. Filed Jan. 9, 1929. Serial No. 331,291. 8 Claims. (Cl. 63—3.)



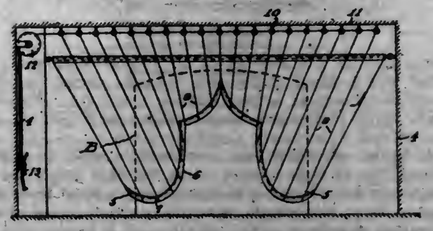
4. In a jewelry bracelet, an apertured setting plate, a removable ornament having an attaching pin adapted to be inserted through the apertures in said setting plate to effect the attachment of said ornament to said setting plate, and end links hingedly connected to said setting plate and having tongue members provided with bifurcated end portions adapted to embrace said ornament in supporting relation.

1,756,042. COSMETIC RECEPTACLE. WILLIAM E. WACKER, Newark, N. J., assignor to August Goerts & Co., Inc., a Corporation of New Jersey. Filed June 20, 1928. Serial No. 286,749. 4 Claims. (Cl. 132—82.1.)



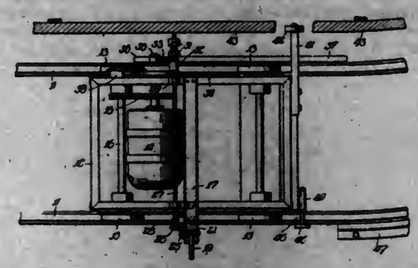
1. A receptacle of the class described comprising, a body having an open upper end, an annular top portion secured to the upper portion of said body, a horizontal inwardly extending annular flange formed on said top portion, a downwardly projecting annular piston engaging bead formed on said flange outwardly of the inner edge thereof, a piston movable within said body and spring means within said body and positioned between the bottom thereof and said piston for causing the latter to cooperate with the under side of said annular bead for closing the upper end of said body, the portion of said annular flange extending inwardly of said bead serving to hold a powder puff or similar article away from the pinching cooperating portions of said bead and piston.

1,756,043. STAGE CURTAIN OR DROP. FRANCIS E. WEIDHAAS, Bronxville, N. Y. Filed July 14, 1928. Serial No. 292,826. 18 Claims. (Cl. 272—22.)



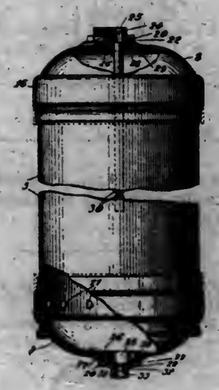
8. In combination with a suspended curtain and a pulley system a selective, manually operated means for changing the contour of said curtain into a desired outline and fixed means for holding said contour at will.

1,756,044. LURE CARRIER FOR RACES. JOHN F. WHITE, Chicago, Ill., assignor to Harry B. Staver, Chicago, Ill. Filed Jan. 31, 1927. Serial No. 164,731. 6 Claims. (Cl. 272—4.)



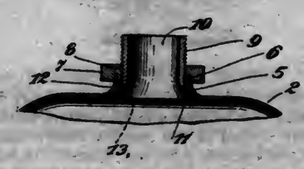
3. The combination of a carriage, an arm hinged on said carriage to rock in a vertical plane transverse to the direction of travel of said carriage, a lure, means mounting said lure on said arm, and means to rock said arm on its hinged mounting at intervals to cause the lure to leap hurdles.

1,756,045. BOILER CONNECTION. VALENTIN WILHELMI, Maywood, N. J. Original application filed Dec. 4, 1926, Serial No. 152,567. Divided and this application filed Apr. 26, 1927. Serial No. 186,604. 2 Claims. (Cl. 285—50.)



1. A boiler connection comprising, in combination with a boiler having an opening with an out-turned flange, a spud connection to said boiler, and a nut upon the spud connection and having a channel spaced from the threaded opening of the nut for receiving said flange.

1,756,046. BOILER CONNECTION. VALENTIN WILHELMI, Maywood, N. J. Original application filed Dec. 4, 1926, Serial No. 152,567. Divided and this application filed Feb. 18, 1928. Serial No. 253,848. 1 Claim. (Cl. 285—50.)

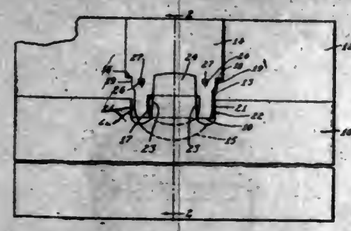


A boiler connection comprising, in combination with a boiler having an opening with an outturned flange surrounding said opening, a spud connection in the form of a hollow boss fitted to the opening, said boss being of smaller outside diameter than the width of the opening except at its inner end which is expanded to engage the inside of the boiler adjacent the opening, the boss projecting through the opening to the outside of the boiler and being externally threaded, and a nut screwed upon the boss and having a channel in one face separate from the threaded opening in the nut to receive the flange around the opening on the outside of the boiler; the spud connection thus being held securely by the gripping action of its expanded end and said nut.

1,756,047. BAG OR ENVELOPE. JAMES S. WILEY, New York, N. Y., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 3, 1926. Serial No. 152,406. 4 Claims. (Cl. 229—68.)

2. In a bag or envelope, the combination of the bag body having a pair of opposed walls, a closure flap on one

wall, said wall being provided with a transverse slit spaced from and parallel with the fold line of the flap, a



tongue extending from the other wall, and means on the flap for automatically projecting the tongue through said slit as the flap is closed.

1,756,048. LADY'S NOVELTY HAND BAG. THEOPHILUS G. WILLIAMS, Morristown, N. J. Filed July 2, 1927. Serial No. 203,100. 6 Claims. (Cl. 150—28.)



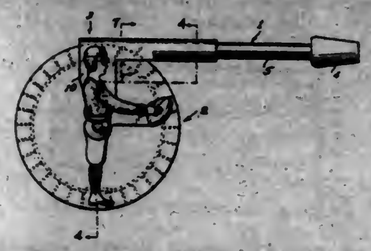
1. As an article of manufacture, a hand bag in simulation of an image embodying a body portion, head and feet, the body being stuffed to add rigidity thereto and the feet arranged of plantegrade form and adapted to support the image in upright position, and the body having a hollow within the stuffing with an acess opening thereto arranged with releasable closure means.

1,756,049. METHOD OF UTILIZING BUNDLED SCRAP METAL. FRITZ WÜST, Dusseldorf, Germany, assignor to the Firm Th. Goldschmidt A.-G., Essen, Germany. Filed Aug. 19, 1926, Serial No. 130,357, and in Germany Sept. 2, 1925. 3 Claims. (Cl. 75—22.5.)

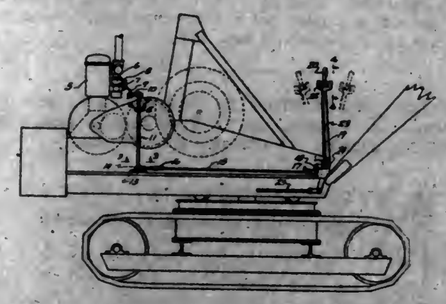
1. Method of treating bundled scrap metal, which consists in heating the metal bundles by electrical eddy currents to welding temperature and thereupon welding same into a homogeneous mass.

1,756,050. AIR-OPERATED TOY. JOHN M. ABRAMS, Brooklyn, N. Y. Filed Jan. 20, 1928. Serial No. 248,030. 7 Claims. (Cl. 46—46.)

7. In a whistle toy, in combination, a whistle tube, a wheel arranged to be rotated by air expelled from the tube, means rotatably supporting the wheel from the tube, a reed holder mounted within the tube and spaced from one side thereof whereby to provide a direct unobstructed passage for the air blown into the tube to impinge on said wheel, said reed holder having one end open and the other end closed and an opening intermediate its ends, whereby the reed-vibrating air is compelled to rejoin the air blown into the tube and to impinge on the wheel.

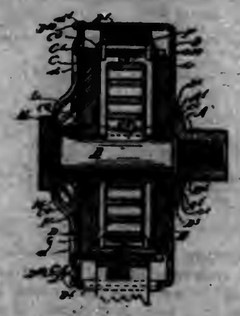


1,756,051. POWER CONTROL FOR EXCAVATORS. PAUL BURKE, Green Bay, Wis., assignor to Northwest Engineering Corporation, Green Bay, Wis., a Corporation of Wisconsin. Filed Apr. 18, 1928. Serial No. 271,088. 3 Claims. (Cl. 74—107.)



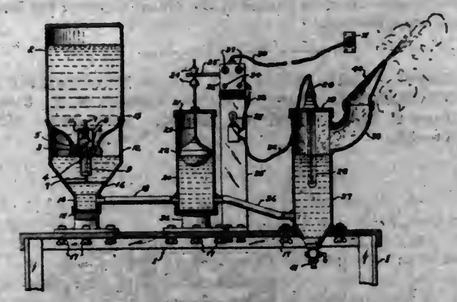
1. In an excavator, the combination with the prime mover, the throttle control valve for said prime mover for controlling its power and speed and a hand lever pivoted to move in a single plane for controlling one of the operating functions of the machine, of a handle pivoted on said lever to swing transversely to the path of movement of said hand lever, and an operating connection between said handle and throttle for moving said throttle irrespective of the position or movement of said hand lever.

1,756,052. REBOUND CHECK FOR VEHICLES. CHARLES S. BURTON, Oak Park, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 24, 1923. Serial No. 614,668. 14 Claims. (Cl. 267—10.)



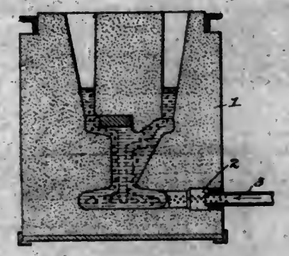
1. In a device for the purpose indicated, a rotatable drum, a fixed journal bearing member for the drum, a spring connecting the drum with the journal bearing member for being tensioned by the rotation of the drum in one direction and for rotating the drum in the opposite direction by its reaction, a fixed casing enclosing the drum and spring, a flexible connector wrapped around the drum and secured thereto at one end, the other end emerging from the casing at the periphery of the latter, a friction plate loose on the journal bearing lodged in the casing between one side wall thereof and the adjacent side of the drum, the casing comprising a side plate which is movable along the axis relatively to the casing body and non-rotatably engaged with said body, and spring means for stressing the friction plate against the drum located exteriorly of the casing and reacting between the journal bearing and said movable side of the casing for pressing the latter against the drum.

1,756,053. VAPORIZER. MAX COLTON, Newark, N. J. Filed Nov. 19, 1928. Serial No. 320,378. 1 Claim. (Cl. 219—38.)



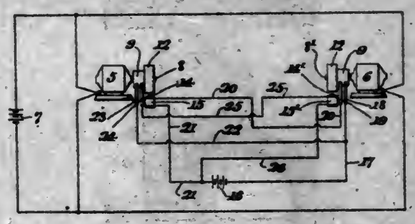
A vaporizer comprising in combination, a bottle reservoir, an intake chamber adapted to support said bottle reservoir in inverted position and to receive liquid therefrom, a vaporizing chamber connected to said intake chamber and adapted to receive liquid therefrom, a heating unit in said vaporizing chamber in contact with the liquid therein, the liquid level in said intake and vaporising chambers being the same, said liquid level being fixed and determined by the position of the mouth of said bottle reservoir, a control chamber connected to said intake and vaporising chambers and having a liquid level equal to that of these chambers, valve means, a pilot light, and a float supported by the liquid in said control chamber, said float being operatively connected to said valve means and serving to operate said valve means in accordance with the liquid level variations in said control chamber to thereby control the operation of said heating unit and said pilot light.

1,756,054. PROCESS OF WELDING. ABRAM G. CRUM, Pittsburgh, Pa., assignor to Metal & Thermit Corporation, Carteret, N. J., a Corporation of New Jersey. Filed Feb. 12, 1927. Serial No. 167,872. 5 Claims. (Cl. 22—206.)



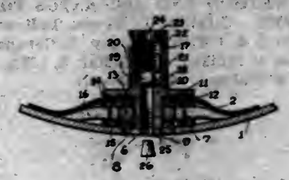
1. The method of welding by superheated molten metal, which comprises preliminarily melting the metal, superheating the same by passing a gas which will react exothermically with the metal into the molten mass, and bringing the superheated metal into engagement with the parts to be welded.

1,756,055. SYNCHRONOUS MOTOR. CHARLES W. EBELING, New York, N. Y., assignor to Harrison W. Rogers, Inc., a Corporation of New York. Filed Dec. 7, 1926, Serial No. 153,079. Renewed Mar. 4, 1930. 4 Claims. (Cl. 172—293.)



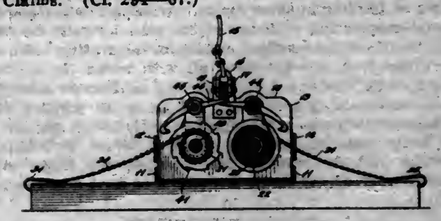
3. Two similar speed motors separated from each other and operated by the same character of electric current, a disk carried by the shaft of one motor and having a portion of its periphery magnetic, an electromagnet adjacent said periphery and in the path of the magnetic portion thereof, a switch controlled by the other motor, and a circuit including a source of electrical energy, the switch and the electromagnet, and through which circuit the switch operating motor controls the speed of the disk operating motor.

1,756,056. INFLATABLE SPORT BALL. JOSEPH E. DORWARD, New York, N. Y. Filed July 9, 1923. Serial No. 650,851. 3 Claims. (Cl. 273—65.)



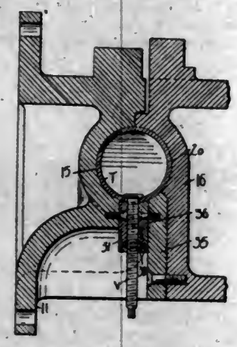
1. In an inflatable ball having an outer casing and a bladder, a valve tube connected to said bladder, a valve therein, a plate permanently stitched to said casing, said plate being provided with a threaded opening, and means including a screw thread on said valve tube whereby said valve tube may be secured in said opening.

1,756,057. TIMBER-HANDLING DEVICE. CHARLES E. DOTY, Mount Vernon, and OTTO G. DESCH, New York, N. Y. Filed Mar. 7, 1928. Serial No. 259,713. 14 Claims. (Cl. 294—67.)



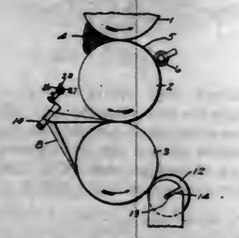
1. A lifting device for articles such as railroad ties and other heavy timbers, comprising a supporting member, a pair of spring actuated winding drums carried by the supporting member, a pair of flexible connecting members extending in opposite directions one from each drum, a gripping hook carried by each connecting member, and locking means for automatically locking the drums against unwinding movement when the supporting member is raised.

1,756,058. TUBE VULCANIZER. ANDREW J. FLEITER, Akron, HENRY C. BOSTWICK, Kenmore, and THEODORE A. MILLER, Akron, Ohio, assignors to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Original application filed Feb. 24, 1927, Serial No. 170,511. Divided and this application filed July 1, 1927. Serial No. 202,843. 3 Claims. (Cl. 18—35.)



1. In a vulcanizer for tubes, the combination of separable mold sections, the sections parting about the inner circumference of the tube about a line to one side of the valve stem, a recess in one of the sections, a removable plate secured in the recess, partially filling the same and having a channel for the reception of one side of the valve stem, a block secured to the other section fitting the recess, and a second removable plate secured to the block having a channel therein for the reception of the other side of the valve stem.

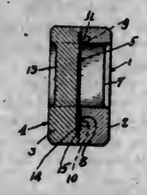
1,756,059. METHOD AND APPARATUS FOR PLYING UP RUBBER. CHARLES L. FOUTZ, Indianapolis, Ind., assignor to G & J Tire Company, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 6, 1924. Serial No. 697,186. 4 Claims. (Cl. 154—1.)



2. A machine for manufacturing laminated strips of rubber, rubberized fabric and the like comprising, in combination: a calender for passing the rubber, rubberized fabric or the like in sheet form; cutting means juxtaposed to and cooperating with one of the calender rolls for cutting the sheet into strips, means for separating some of the strips from the calender roll with which the cutting means cooperates and for transposing said strips laterally with respect to the calender roll so as to position the transposed strips in superimposed relation with respect to the strips remaining on the calender, means including a calender roll for pressing the superimposed strips into contact whereby the strips are united to form a laminated strip.

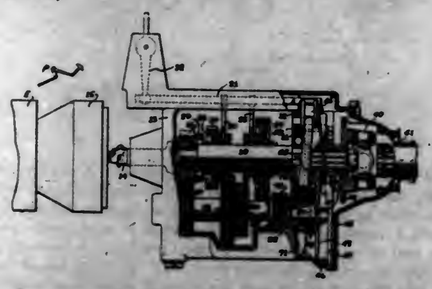
1,756,060. COMPRESSOR VALVE. ARTHUR S. HAWKS, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed July 7, 1925. Serial No. 41,940. 1 Claim. (Cl. 277—46.)

In a plate valve, the combination of seat and cap members clamped one to the other and each having a series of slots and bars, the slots and bars of one series being offset in relation to the slots and bars of the other series, a flat depression in the inner face of one of said members forming a valve chamber wall parallel with the inner face of the second member, a plurality of independent valve plates in said chamber one for each of the slots of one of



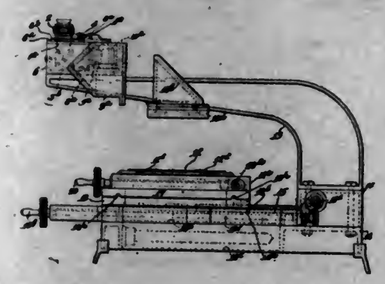
said series, means for locating the individual plates with reference to the slots and bars, a shallow recess for receiving and loosely confining said plates at one end thereof, and a longitudinal recess in the inner face of said second member intermediate said shallow receiving recess and the slots to accommodate flexing of the plates adjacent the confined ends thereof.

1,756,061. VARIABLE-SPEED POWER-TRANSMISSION MECHANISM. FRANK A. HAYES, Keyport, N. J. Filed June 9, 1924. Serial No. 718,742. 19 Claims. (Cl. 74—58.)



1. In a variable-speed power-transmission mechanism, in combination, a pair of gears shiftable into mesh while both are rotating, automatic means, including a pivoted locking member, for preventing shifting of the gears into mesh except when they have a predetermined pitch-line velocity ratio, automatic mechanism for gradually shifting the locking member to unlocking position while the said velocity ratio is approaching the predetermined valve and means then operable at will for shifting the gears into mesh.

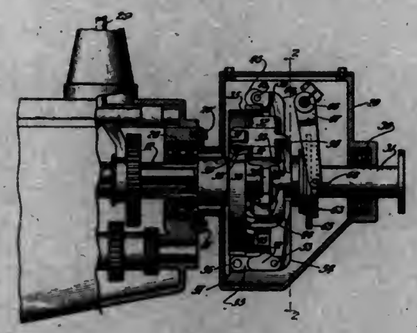
1,756,062. MEASURING STEREOSCOPE. LODEWYK J. R. HOLST, Brookline, Pa., assignor, by mesne assignments, to Brock & Weymouth, Incorporated, a Corporation of Delaware. Filed May 18, 1924. Serial No. 712,987. 3 Claims. (Cl. 88—29.)



2. In a measuring stereoscope comprising a base and means for supporting and adjusting views thereon, the

combination with said base of a frame for supporting the telescopes rigidly secured to the base, a pair of stereoscopic telescopes comprising prisms, objectives and eye pieces, of which the prisms are secured to the frame in fixed positions and the eye pieces and objectives are adjustable towards and away from each other thereon.

1,756,063. CLUTCH MECHANISM. IRVIN HUPP, Chicago, Ill. Filed Nov. 5, 1926. Serial No. 146,340. 14 Claims. (Cl. 192—53.)



1. In a clutch, the combination of two shafts, a circular member rotatable with one shaft, an element rotatable with the other shaft, levers pivoted on said element, friction shoes adapted to engage the periphery of said member, spring means for causing one end of said levers to press against said shoes, other levers pivoted on said element, spring means for pressing one end of said other levers against the periphery of said member, and means on said periphery with which said last mentioned levers coact.

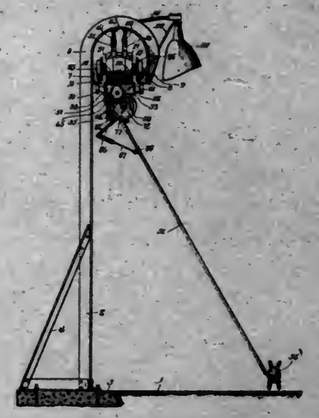
1,756,064. STERILE INDICATING MEANS IN STERILIZING THERMOMETERS. ERNEST O. LINDBERG, Jamaica, N. Y., assignor to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed May 24, 1928. Serial No. 280,188. 2 Claims. (Cl. 40—68.)



1. A hollow cap adapted to encase the upper end of a sterilizer thermometer and housing a spindle carrying a sterile indicating means thereon under constant downward spring tension therein, a cross pin mounted through said spindle and adapted to engage a seat in the upper edge of said cap, whereby a sterile and unsterile indicating means is combined in a sterilizer thermometer.

1,756,065. DOG-RACING APPARATUS. LEWIS E. MITCHELL, JOHN L. CONNORS, and SOLOMON M. PINELES, Chicago, Ill., assignors to Harry B. Staver, Chicago, Ill. Filed Aug. 29, 1927. Serial No. 216,246. 4 Claims. (Cl. 272—4.)

2. In an animal racing course in which dogs are induced to run behind a lure propelled along said course, a lure carriage, a lure arm supported on said carriage, an electric motor for moving said lure arm between an operative and inoperative position, an energizing circuit



for said motor, a control switch on said carriage for said energizing circuit, and means on said course for operating said control switch.

1,756,066. DOG-RACING APPARATUS. SOLOMON MICHAEL PINELES, Chicago, Ill., assignor to Harry B. Staver, Chicago, Ill. Original application filed Aug. 29, 1927, Serial No. 216,246. Divided and this application filed Nov. 21, 1927. Serial No. 234,570. 4 Claims. (Cl. 104—94.)

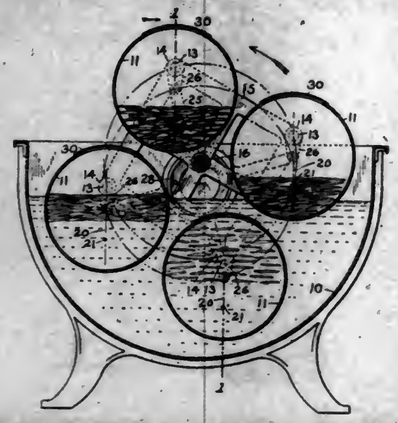


1. In an animal racing course in which dogs are induced to run behind a lure propelled along said course, a rail track comprising two spaced rails, a carriage adapted to run on said rails, said carriage comprising two motors disposed in the direction transverse to said rails, each motor having a shaft and two rail wheels on said shaft in engagement with said rails, and frame members joining said motors and utilizing the frames of said motors as a part of the carriage structure.

1,756,067. DYEING PROCESS AND MECHANISM. ROBERT CARL RAHM, Wyomissing, Pa., assignor to Berks Engineering Company, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1928. Serial No. 264,298. 6 Claims. (Cl. 8—19.)

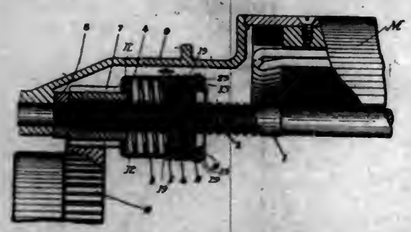
1. The improved method of dyeing which consists in partially loading a perforated-wall receptacle, and then repeatedly subjecting the contained goods to successive

dipping, horizontally-moving, and withdrawing action in a dyeing bath with positive maintenance in parallel vertical lines of the diametral plane which passes through the normal center of gravity of the contained goods.



2. In combination with a dyeing vat, a perforated-wall receptacle revolvably mounted therein to swing about a fixed axis into and out of the dyeing liquid, the diametral plane which passes through the normal center of gravity of the contained goods being positively maintaned in parallel lines during successive revolutions of the receptacle.

1,756,068. ENGINE STARTER. JULIUS H. RICHARDS, Torrington, Conn., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Nov. 1, 1923. Serial No. 672,069. 6 Claims. (Cl. 74—7.)



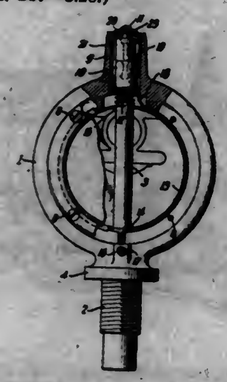
1. An engine starter drive including a rotatable shaft, a driving member adapted to be moved into engagement with a member of the engine to be started, and a multiple disk friction clutch connected with the driving member for rotating it and operatively connected with the shaft for longitudinal movement thereof when the shaft is rotated and for rotary movement therewith, said clutch comprising a plurality of cooperating friction plates the driving set of which are independently mounted and actuated.

1,756,069. BREAKER FABRIC AND METHOD OF PREPARING THE SAME. WILLIAM K. SAWYER, Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan. Filed Apr. 6, 1926. Serial No. 100,170. 6 Claims. (Cl. 139—420.)



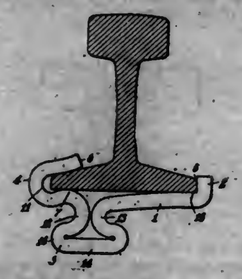
1. A fabric for incorporation in rubber articles having each cord consisting of an inelastic easily rupturable central element of sufficient strength only for resisting stresses incident to rubberising and preparing the article and a covering yarn wound spirally thereabout for holding the fabric together upon rupture of the central element in the finished rubber articles, said fabric being impregnated with rubber.

1,756,070. MOTOR HEAT INDICATOR. ALFRED B. SCHUPP, Richmond Hill, N. Y., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed July 26, 1928. Serial No. 295,381. 7 Claims. (Cl. 240—8.28.)



6. In a heat indicator for indicating the thermal condition of a vehicle motor, in combination, a thermometer having a transparent stem, a casing, an electric lamp mounted in the casing for illuminating the thermometer stem, said lamp including center and rim terminals, a spring supporting the lamp and pressing the center terminal into engagement with a portion of the casing, and a conductive spring clip embracing the rim terminal and serving as a lateral cushioning support for the lamp.

1,756,071. RAIL ANCHOR. CHARLES B. SHEPHERD, New York, N. Y., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed May 17, 1928. Serial No. 278,364. 10 Claims. (Cl. 238—330.)

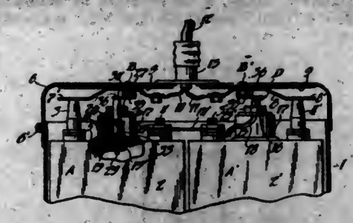


1. A rail anchor comprising oppositely disposed rail base flange-engaging means and a spring loop disposed between said rail base flange-engaging means, said loop being provided with a relatively straight base and converging legs which give the loop a triangular configuration.

1,756,072. STORAGE-BATTERY CELL AND THE OPERATION THEREOF. ROSCOE J. SMITH, East Orange, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed Jan. 30, 1922. Serial No. 532,596. 14 Claims. (Cl. 136—178.)

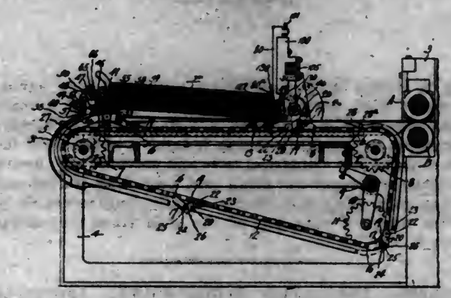
1. In combination, a battery cell having a container for the battery elements and electrolyte, instrumentalities for

effecting the connection and disconnection of the cell with and from a circuit, and means controlled by said instru-



mentalities for respectively effecting the sealing and venting of said container upon such connection and disconnection, substantially as described.

1,756,073. SHEET-FEEDING MEANS. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor to George W. Swift, Jr., Inc., Bordentown, N. J., a Corporation of New Jersey. Filed Nov. 28, 1927, Serial No. 236,161. Renewed Apr. 16, 1929. 19 Claims. (Cl. 271—44.)



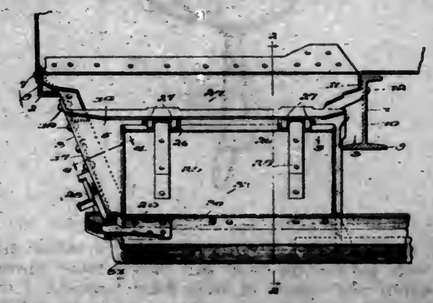
1. In a sheet feeding machine, the combination with means for supporting the rear end of a pile of sheets, of means movable into and out of engagement with the rear edges of successive bottom sheets in said pile for imparting relative forward movements thereto, a lever movable into and out of position to elevate the rear end of the remainder of said pile, a rock-shaft, a toggle link connection between said rock-shaft and said lever, and feed-off mechanism adapted to engage the rear end of the forwardly-displaced bottom sheet.

1,756,074. TROLLEY RETRIEVER. PAUL N. VAN EPP, Port Clinton, Ohio, assignor of one-third to Lake E. Owen, Springfield, Mo. Filed Feb. 27, 1928. Serial No. 257,332. 14 Claims. (Cl. 191—88.)



1. In a trolley retriever, a rope winding reel, separate coiled springs, of different power for controlling the rotatable movements of said reel, automatic means for connecting the more powerful spring with said reel to effect retrieving when said reel is rapidly revolved, locking means for said automatic means to hold said powerful spring in connection with said reel and means for automatically disconnecting said powerful spring from said reel when said reel is rotated in a rope unwinding direction to wind up said spring subsequent to a retrieving operation.

1,756,075. RAILWAY HOPPER CAR. WILLIAM E. WINE, Toledo, Ohio. Filed June 3, 1929. Serial No. 368,081. 5 Claims. (Cl. 105—280.)



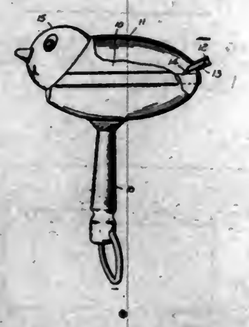
1. In a railway car, the combination with a hopper involving inner and outer side sheets and an inclined floor sheet, the outer marginal edge of the inner side sheet being bent inwardly, a door frame having a plurality of flanges respectively secured to the hopper sheets, the flange of the frame cooperating with the inner side sheet being secured to the inwardly bent portion thereof, and a door for closing the lading discharge opening defined by the frame.

1,756,076. METHOD AND APPARATUS FOR SELECTING CHECKS. HUGH E. WURZBACH and LESLIE H. WADSWORTH, Magna, Utah, assignors to Selector Corporation, Salt Lake City, Utah, a Corporation of Utah. Filed Nov. 22, 1928. Serial No. 321,238. 3 Claims. (Cl. 194—101.)



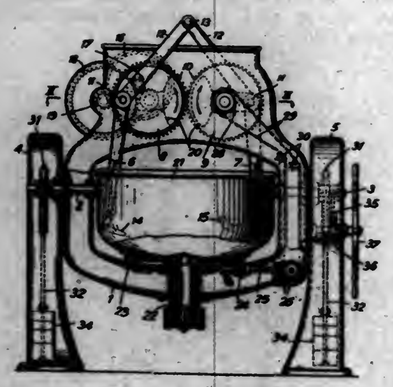
2. In an apparatus for selecting checks, means defining a downwardly inclined check conducting passage, a shoulder opposite the lower end of said passage, the bottom of said passage being open so as to permit checks striking said shoulder to rebound therefrom, a magnetized member in position to be hit by checks rebounding from said shoulder, whereby checks of paramagnetic material will be attracted by said magnetized member and prevented from rebounding therefrom while other checks will rebound therefrom, said magnetized member being so mounted as to permit checks attracted thereto to fall by their own weight and release themselves therefrom, and means for separately delivering checks rebounding from said magnetized member and checks attracted by said magnetized member and subsequently released therefrom.

1,756,077. RATTLE WITH SOUND-MAKING ATTACHMENT. ARTHUR ZADEK, New York, N. Y. Filed Dec. 18, 1929. Serial No. 414,881. 2 Claims. (Cl. 46—46.)



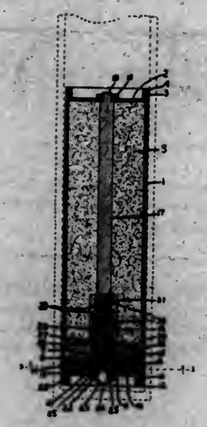
1. In combination, a rattle comprising a hollow circular body portion, the front wall thereof being convexed outwardly and capable of being flexed inwardly, a vent tube in the side wall of the body, a reed holder and reed mounted in the vent with the reed inside the said body, and a handle having one end disposed about the vent and secured to the side wall, the opposite end of the handle having an orifice to allow passage of air to and from the vent.

1,756,078. KNEADING AND MIXING MACHINE, PARTICULARLY FOR PASTE-LIKE GOODS. FRIEDRICH AESCHBACH, Aarau, Switzerland. Filed Feb. 21, 1930, Serial No. 430,336, and in Switzerland Dec. 17, 1929. 4 Claims. (Cl. 259—83.)



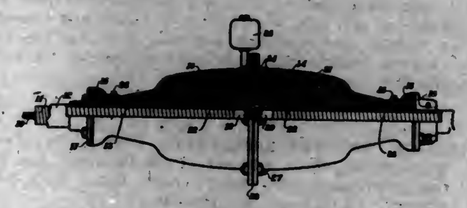
1. A kneading and mixing machine, particularly for dough-like goods, comprising in combination, a frame in the form of a tiltably mounted closed stirrup, two kneading implements the one of which being positioned in front of the said stirrup and the other behind the same and both implements connected to each other above the said stirrup, driving means for said implements and mounted in the upper part of said stirrup and comprising two toothed wheels meshing with each other and disposed in a vertical plane, a crank pin provided on each of the said toothed wheels and engaging one of the said implements and a trough, situated in the space confined by the said stirrup and rotatably mounted in the lower part of the same, and causing the said implements when actuated by the said toothed wheels to move in two intersecting elliptical paths within the said trough.

1,756,079. MORTAR SHELL. ROBERT J. ANDERSON, Whitman, Mass., assignor to National Fireworks, Inc., West Hanover, Mass., a Corporation of Massachusetts. Filed Feb. 6, 1929. Serial No. 338,002. 6 Claims. (Cl. 102—12.)



1. A mortar shell comprising a cylindrical body having a closed head providing a chamber containing a main flammable or bursting charge, a casing having a chamber containing a propelling charge forming a closure for the lower end of said cylindrical body and provided with means operable by impact for firing said propelling charge and means connecting said casing to said body operable to insure complete expulsion of the shell from the mortar when fired.

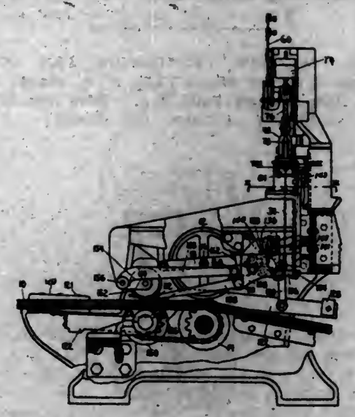
1,756,080. INSULATED CABLE JOINT. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed June 1, 1926. Serial No. 112,747. 14 Claims. (Cl. 173—268.)



1. A joint for a conductor comprising means for forming electrical connection between adjacent ends of the conductor, and a sleeve of dielectric material surrounding said connecting means, said sleeve having a flux control member of conducting material electrically connected with said connecting means and extending outwardly into the body of said sleeve and longitudinally of said conductor away from said connecting means beyond the outermost point of electrical connection between said control member and said conductor.

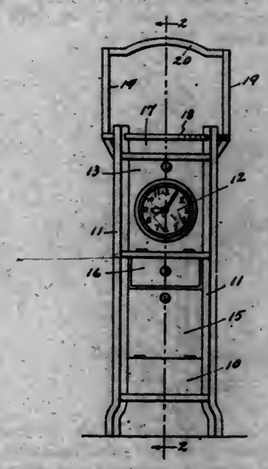
1,756,081. MEASURING MACHINE. HARRIE A. BALLARD, Beverly, Mass., assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Feb. 9, 1928. Serial No. 253,065. 27 Claims. (Cl. 33—147.)

1. In a measuring machine, a support for a piece of work to be measured, an element for contacting with a piece of work on the support to measure a dimension thereof, an indicator, connections between the measuring element and the indicator to operate the latter, means for



holding the indicator set in indicating position, and manually operable means located in the work support and readily accessible for controlling the holding means for the indicator.

1,756,082. WORK STAND. JAMES D. BARLOW, Dallas, Tex. Filed Sept. 7, 1928. Serial No. 304,396. 1 Claim. (Cl. 312—146.)



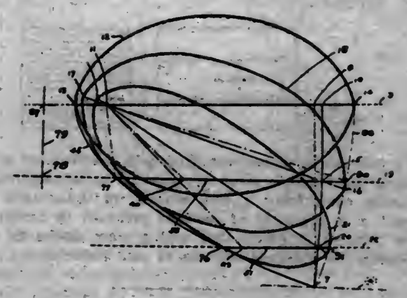
A general utility portable stand comprising a plurality of spaced vertical legs carrying sides and partitions forming compartments, said compartments having doors, one of said doors provided with an opening for receiving a clock, said legs extending upwardly beyond the uppermost of said closed receptacles, a circular frame member spaced from said uppermost closed receptacle, extending through and supported by each of said legs, and providing with the top of the uppermost closed receptacle an open receptacle for receiving suitable objects, and a handle for carrying the stand, formed by upright members connected to the top of the receptacle and to the circular frame member, and joined by a horizontal crosspiece above the circular frame member.

1,756,083. SHOE AND METHOD OF MAKING THE SAME. EDWARD BRENNER, Haverhill, Mass. Filed Apr. 15, 1929. Serial No. 355,188. 12 Claims. (Cl. 41—10.)



1. The herein described method of making an ornamental section of a shoe upper, which consists in providing two complemental portions of a predetermined design by forming apertures in separate pieces of material, placing one of said pieces on the other, with the apertures in one in a definite relation to those in the other, and securing to said pieces a third member cooperating with the design portions of both said pieces to produce the desired design.

1,756,084. REFLECTOR. MARTHA W. CAUGHLAN, Oakland, Calif. Filed Mar. 7, 1928. Serial No. 259,697. 11 Claims. (Cl. 240—41.)

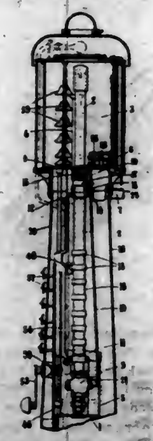


1. A reflecting surface formed of a family of diminishing ellipses, said ellipses produced by the intersections of a family of ellipsoids with a pencil of planes, said ellipsoids having a common proximate focus and having remote foci on a vertical arc drawn from a center on the axis of and to the rear of said surface and said pencil of planes drawn through said center and said remote foci respectively.

1,756,085. LIQUID MEASURING AND DISPENSING APPARATUS. MALCOLM JAMES CRAWFORD, London, England, assignor to Wayne Company, a Corporation of Indiana. Filed June 17, 1927. Serial No. 199,490. 5 Claims. (Cl. 221—100.)

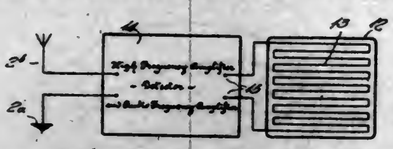
1. In a liquid measuring and dispensing apparatus, a measuring vessel, self closing inlet and serve valves therefor, a gland in the bottom of said vessel, a gauge tube vertically slidable in said gland and communicating at its upper end with the interior of the measuring vessel and at its lower end with a well pipe disposed therebeneath, a fork member connected with said gauge tube, a gauge locking member rotatable about a vertical axis disposed adjacent said fork, dogs on said locking member adapted to engage said fork upon rotation of said locking member

when one of said dogs is in horizontal alignment with said fork, but to prevent rotation of the locking member in all other positions, a cam plate rotatable co-axially with and



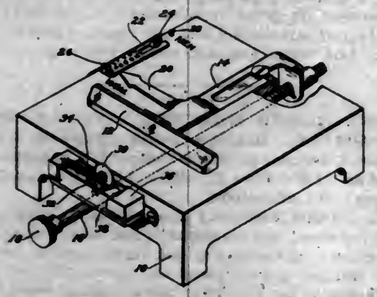
connected to said locking member and means for operatively connecting said cam plate with the inlet and serve valves.

1,756,086. SIGNALING SYSTEM. CHESTER L. DAVIS, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Aug. 21, 1928. Serial No. 300,979. 20 Claims. (Cl. 178—6.)



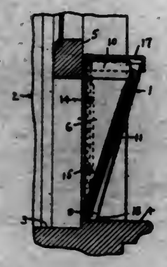
1. A television receiver comprising in combination means for receiving variable frequency energy, variable intensity apparatus comprising a coil having its inductance distributed in a plurality of sections disposed in horizontal planes parallel to each other and a glow discharge tube enveloping the different sections of said inductance.

1,756,087. MARKING AND GAUGING DEVICE. GEORGE N. GORDON, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 9, 1922. Serial No. 542,282. 11 Claims. (Cl. 33—4.)



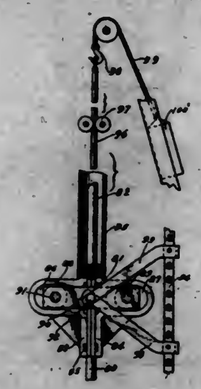
8. A device for marking ribbed insoles comprising, in combination, means for marking an insole, a support upon which the insole may be manipulated to move the rib transversely across the marking means, a mounting for said marking means enabling it to accommodate itself to the varying heights of different parts of the surface of the ribbed insole, a member for guiding the insole in a straight path, and means for adjusting said member toward and from said marking means to vary the location of the mark made by said means on the insole.

1,756,088. WINDOW VENTILATOR AND SCREEN. HOWARD Y. HODGE, Seneca Falls, N. Y., assignor to Alfretta Hodge, Seneca Falls, N. Y. Filed Nov. 12, 1928. Serial No. 318,797. 1 Claim. (Cl. 98—99.)



In a window ventilator, a pair of wedge shaped end plates with downwardly turned upper portions and an inwardly turned side portion, each of said plates adapted to be fixed to a window frame, said plates pivotally carrying an adjustable, U-shaped pivoted glass holding element and a screen with depending side and end portions adapted to fit over the top thereof.

1,756,089. LONG-STROKE PUMPING JACK. JOHN S. HUNTER, Coalinga, Calif. Filed Oct. 26, 1929. Serial No. 402,606. 1 Claim. (Cl. 74—14.)



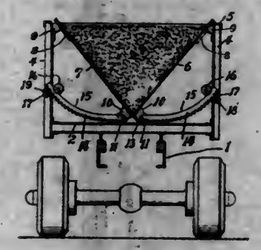
A device of the character described, including: a pair of chain loops; an upper sprocket and a lower sprocket for each of said chain loops, said sprockets being so placed that said chain loops will travel through parallel vertical planes; means for causing travel of said chain loops over said sprockets; a bracket extending inwardly from adjacent portions of said chains, the inward extension of said bracket being substantially one-half the diameter of said sprockets; a pump rod extending vertically from a pump; means engaging said pump rod, said means including a roller secured to the end portion of said bracket and a guide member secured to said rod, said guide member having a lateral slot receiving said roller; and guide rollers for preventing disalignment of said rod when said bracket is offset near an end of a vertical stroke.

1,756,090. ADVERTISING SIGN USING REFLECTED LIGHT. JAMES HUTTON, Monton, and JAMES BACON, London, England, assignors to James Bacon, London, England, and Herbert Heather, Catford, England. Filed Nov. 5, 1928, Serial No. 317,349, and in Great Britain Nov. 30, 1927. 2 Claims. (Cl. 40—77.)



1. A mechanical advertising sign comprising a rotor having a plurality of flat surfaces carrying display matter, and a relatively stationary casing within which the rotor is mounted, which casing is provided with two light transmitting apertures disposed at an angle to one another so that light entering the casing through one of the apertures illuminates the flat surfaces in turn and is reflected by mirror means disposed so as to cause display matter to be made visible to the eye of the observer through the other aperture in the casing.

1,756,091. TRUCK FOR TRANSPORTING CONCRETE. EDWARD N. JONES, Pittsburgh, Pa., assignor to The C. O. Bartlett & Snow Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1928. Serial No. 292,689. 15 Claims. (Cl. 298—24.)

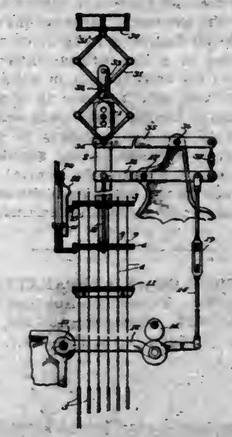


1. In truck body construction the combination of a floor, and a collapsible body comprising two plate members having their upper portions movably supported and their lower portions arranged to be brought into mutual contact, and means for supporting the plate members on the floor during movement of the plate members.

1,756,092. METHOD OF REFINING NICKEL-COPPER MATTE. FRANK EUGENE LATHE, Ottawa, Ontario, Canada. Filed Dec. 13, 1928, Serial No. 326,918, and in Canada Dec. 27, 1927. 6 Claims. (Cl. 75—66.)

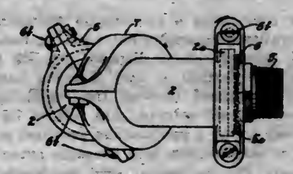
2. A method of refining nickel-copper matte, which comprises retaining in the matte a substantial amount of iron sulphide and rapidly cooling the matte to increase the rate and completeness of solution in acid of the nickel sulphide constituent thereof, and leaching the matte with acid.

1,756,093. ATTACHMENT FOR LOOMS. HENRY K. MARTIN, Gloucester, N. J., assignor to Breslin Brothers Carpet Company, Inc., Gloucester, N. J. Filed July 2, 1929. Serial No. 375,429. 6 Claims. (Cl. 139—60.)



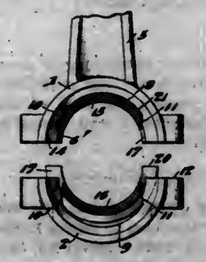
1. In a loom for weaving pile fabrics, lingo connections for controlling the figuring warps, a lifter board for said connections, a guide board, means for raising and lowering the lifter board, and means connected with said lifter board for imparting a lateral movement to said guide board.

1,756,094. FLEXIBLE METALLIC COUPLING. CHARLES W. MCGUIRK, Albany, N. Y. Filed May 6, 1929. Serial No. 360,738. 3 Claims. (Cl. 285—96.)



1. In combination, a pair of pipe sections arranged in end to end relation, annular outwardly directed flanges formed on the adjacent ends of said pipe sections, a nipple partly received by said sections, resilient packing rings surrounding said nipple and contacting the adjacent pipe sections, and means including friction bearings cooperating with said flanges for holding the pipe sections associated for relative rotation and affording said coupling a maximum degree of flexibility.

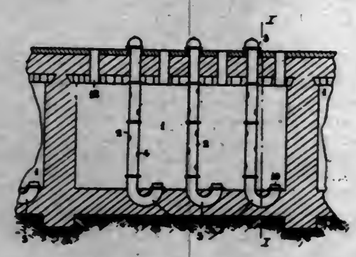
1,756,095. BEARING BOX AND LINING THEREFOR. MARY C. NEUENFELT, Detroit, Mich. Filed June 6, 1928. Serial No. 283,357. 2 Claims. (Cl. 308—237.)



2. A shaft journal box comprising two bearing members to be secured together in abutting relation and having

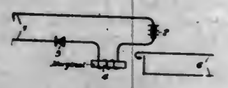
recesses therein forming a central opening of greater diameter than the diameter of the shaft to be mounted, said members each being recessed within the central opening intermediate the points of abutment and said recesses being formed with the ends thereof in planes substantially at right angles to the abutment faces of the two members, bushings of corresponding form to be fitted within the last-mentioned recesses in a line substantially corresponding with the planes of the ends thereof in a manner that said bushings extend from said recesses to contact with the shaft, said bushings having their ends spaced from the abutment points of the two members to provide oil recesses, said bearing members having annular grooves on opposite ends thereof around the central recesses, and flanges on the ends of the bushings to lie within said annular grooves and extending to abut at their ends to close the oil recesses.

1,756,096. METHOD OF AND APPARATUS FOR BURNING SOLID FUEL. FRANCESCO NOVELLI, Pescina, Italy. Filed May 21, 1927, Serial No. 193,153, and in Italy May 27, 1926. 1 Claim. (Cl. 110—24.)



A furnace comprising a combustion chamber having in its top a plurality of charging holes having removable covers, vertical, tubular retorts disposed beneath and in correspondence with certain of said charging holes whereby fuel may be introduced through the remaining charging holes for heating said retorts, said retorts having perforations in their walls, a gas passage provided at the lower end of each of said retorts, said passages extending downwardly beneath the bottom of said combustion chamber and then upwardly to open into the combustion chamber at the bottom thereof.

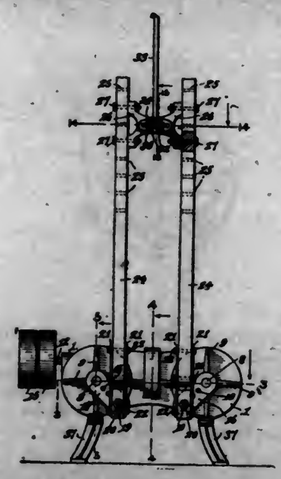
1,756,097. ELECTRICAL DELAY-CIRCUIT ARRANGEMENT. ELIOT W. NILES, Bloomfield, N. J., and WILLIAM H. EDWARDS, Bayside, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 24, 1928. Serial No. 307,833. 5 Claims. (Cl. 179—84.)



1. A control circuit comprising a source of current, a marginal responsive device and a rectifier of the contact variety poled to oppose the flow of current from said source through said device, and controlled apparatus operated by said device.

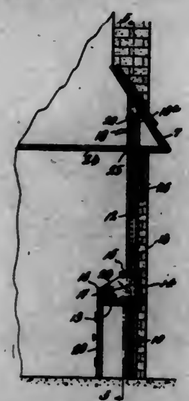
1,756,098. PUMP JACK. LINNIS G. NORDSTROM, Galva, Ill., assignor of one-third to Edwin L. Stephenson, Galva, Ill. Filed Aug. 8, 1929. Serial No. 384,274. 3 Claims. (Cl. 74—14.)

1. A jack including a housing, crank arms supported outside thereof, means within the housing for rotating the crank arms simultaneously but in opposite directions respectively, means detachably connected to the housing for supporting it in either of two positions, pitmen connected to and adapted to be actuated simultaneously by the re-



spective crank arms, brackets adjustably connected to the respective pistons, a coupling movably connected to the brackets, and a rod connected to and actuated by the coupling.

1,756,099. STORE FRONT. ZOE S. OSBORN, Colorado Springs, Colo. Filed Oct. 4, 1928. Serial No. 310,847. 1 Claim. (Cl. 20—40.4.)



In a store, a display front embodying a counter, a transparent panel extending upwardly from the front edge of the counter, a transparent panel extending rearwardly from the upper edge of said first panel, a vertically adjustable window arranged above the counter and adapted to contact with the upper side of said second panel when in closed position, and a panel arranged below the counter.

1,756,100. PROCESS FOR PREPARING COLORED NITROCELLULOSE VARNISHES. ERICH RICHTER, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Apr. 14, 1927, Serial No. 183,894, and in Germany Feb. 1, 1926. 2 Claims. (Cl. 134—79.)

2. The process for preparing colored nitrocellulose varnishes which consists in intimately grinding fibrous

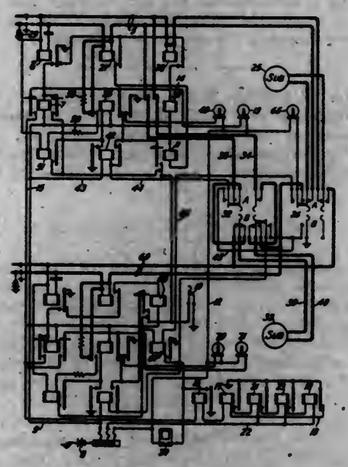
nitrocellulose with an insoluble coloring matter in the presence of water until a homogeneous magma is produced, freeing the same from water and treating it with a highly volatile liquid solvent for nitrocellulose, whereby the nitrocellulose is dissolved, the coloring matter being dispersed in colloidal form throughout the solution.

1,756,101. CHAIN. SAMUEL F. ROBIDOUE, Providence, R. I., assignor to Coyne, Robidoue & Co., Providence, R. I., a Copartnership of George A. Coyne and Samuel F. Robidoue, Providence, R. I. Filed Jan. 24, 1929. Serial No. 334,813. 2 Claims. (Cl. 63—4.)



1. A bracelet, chain or the like comprising a plurality of links, mesh fabric connecting said links comprising relatively movable parts with one part immovably embedded in one link and another part movable relative to the first part and immovably embedded in another link whereby the links are flexibly connected together.

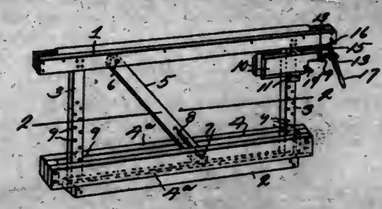
1,756,102. TELEPHONE SYSTEM. WILFRED M. ROSENKRANS, Bloomfield, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Feb. 23, 1929. Serial No. 342,184. 1 Claim. (Cl. 179—42.)



In a telephone system, a line, a signal associated with said line adapted to be actuated intermittently in response to a call incoming on said line, a station on said line, a second station, a key for connecting said second station with said line and means responsive to the seizure of said line at said first station in answer to the incoming call for altering the characteristic of said signal and rendering said key ineffective to connect said second station with said line.

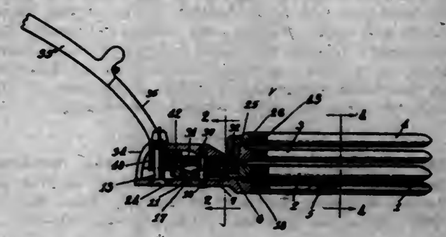
1,756,103. HIDE-STRETCHING DEVICE. COLEMAN SLEBODNIK, New Albany, Ind., assignor to Geo. Moser Leather Co., New Albany, Ind. Filed Aug. 25, 1928, Serial No. 302,074. Renewed Jan. 21, 1930. 3 Claims. (Cl. 149—21.)

2. The combination with a hide stretching frame having a side bar, of a butt stretching member slidably connected to opposite sides of the side bar, a tool receiving member carried by the butt stretching member, a tool



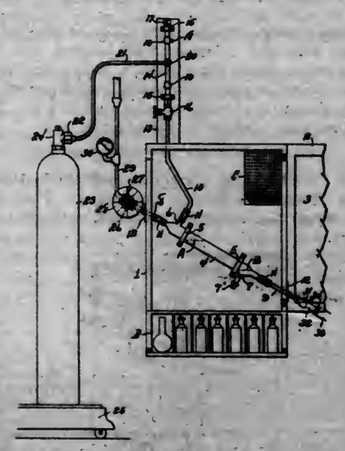
receiving member carried by the frame adjacent the first mentioned tool receiving member, said tool receiving members being adapted to receive a pulling implement.

1,756,104. MARCELING IRON. NELLIE STONE, Willamina, Oreg. Filed Aug. 28, 1928. Serial No. 302,617. 5 Claims. (Cl. 132—32.)



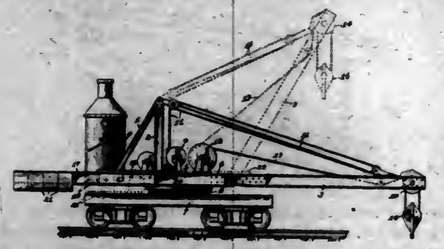
1. A marceling iron comprising a plurality of forks disposed one above the other and means for moving certain of said forks laterally with respect to the others, the other forks remaining stationary.

1,756,105. CHLORINATOR. CLAIR V. SWEARINGEN, Chattanooga, Tenn. Filed July 23, 1929. Serial No. 380,899. 1 Claim. (Cl. 210—28.)



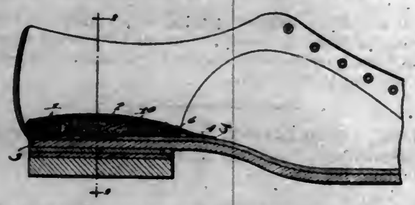
A device of the class described comprising a cylinder diagonally supported and formed of transparent material, means for connecting the upper end of the cylinder with a water supply, such means including a valve and means for indicating the amount of opening of the valve, discharge means connected with the lower end of the cylinder and valve controlled means for feeding chlorine gas to the upper part of the cylinder, said cylinder having a restricted outlet end for retarding the flow of water therefrom, whereby the water level in the cylinder acts to indicate when the desired proportions of water and gas are being fed.

1,756,106. COUNTERBALANCED CRANE. HAROLD E. SWENSON, Vallejo, Calif. Filed May 16, 1928. Serial No. 278,293. 2 Claims. (Cl. 212—49.)



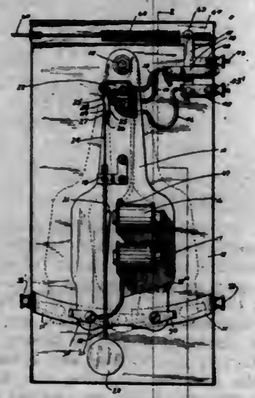
1. In a crane, the combination with a deck, a movable boom mounted upon one end of the deck, and boom actuating mechanism mounted upon the deck, of a counterweight mounted upon the opposite end of the deck, said counter-weight comprising a pair of frame members slidably mounted along the sides of the deck and a counter-eight body mounted upon the outer ends of the frame members and connecting the same; means for moving the counterweight to shift the center of gravity of the crane relative to a load; and anti-friction rollers mounted upon the frame members and engaging the sides of the deck to ficilitate movement of the counter-weight.

1,756,107. HEEL PAD. TOMIZO TANIGAWA, Honolulu, Territory of Hawaii, assignor of one-half to Fred K. Makino, Honolulu, Territory of Hawaii. Filed July 6, 1920. Serial No. 376,420. 3 Claims. (Cl. 36—37.)



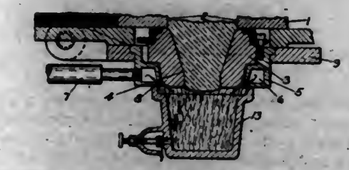
3. A heel cushon composed of disks of pliable leather and fabric arranged in superposed relation and secured together around their edges with a filling between them composed of dry, finely comminuted, cured rubber providing great pliability, elasticity and mobility to the pad, thereby insuring comfort to the wearer.

1,756,108. SIGNALING SYSTEM FOR AUTOMOBILES. MARTIN G. TORSON, Kansas City, Kans. Filed Feb. 21, 1924. Serial No. 694,280. 4 Claims. (Cl. 200—90.)



1. In a device of the class described, a blinker comprising a housing, a frame pivotally mounted in said housing, an electromagnet carried on said frame, a pendulum mounted to swing on said frame and having an armature thereon, a circuit closer on said pendulum, means whereby the magnet may be energized to move the pendulum and a second switch adapted to be intermittently opened and closed by the movement of said pendulum.

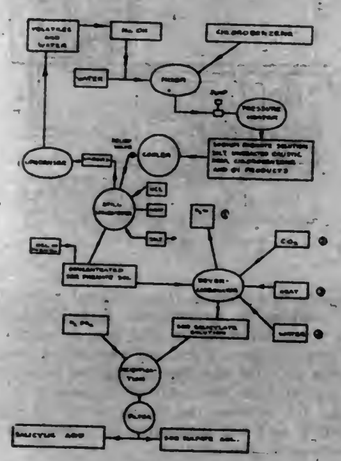
1,756,109. METHOD AND APPARATUS FOR SUPPORTING AND DELIVERING VISCOUS GLASS. OLIVER M. TUCKER and WILLIAM A. REEVES, Columbus, Ohio, assignors to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Sept. 14, 1925. Serial No. 56,214. 45 Claims. (Cl. 49—55.)



17. In a glass machine, a delivery orifice for glass, an annular ring positioned adjacent said orifice for annularly projecting a heating fluid beneath said orifice, and a cup movable into capping position with said orifice for enclosing said fluid and severing means periodically acting beneath said annular ring.

18. In a glass machine, a delivery orifice for glass, an annular perforated ring positioned adjacent said orifice, means for supplying said ring with a fluid for annularly projecting a fluid against the issuing glass, and a means acting in timed relation to the operation of the severing means for stopping the supply of said fluid.

1,756,110. MANUFACTURE OF PHENATES. WILLIAM H. WILLIAMS and EDGAR C. BRITTON, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed June 11, 1923. Serial No. 644,642. 3 Claims. (Cl. 260—154.)



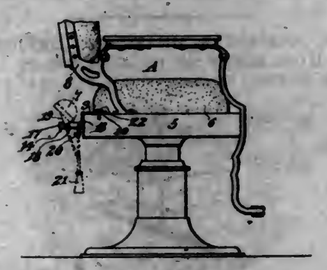
2. In a process of the character described, the steps which consist in reacting between monochlorobensene and sodium hydroxide solution, whereby a solution containing sodium phenate and sodium chloride is produced, separating unreacted chlorobensene and any volatile by-product, water, and sodium chloride therefrom, whereby a concentrated water solution of sodium phenate remains, and neutralizing any excess alkali by adding phenol.

1,756,111. PHOTOGRAPHIC-COPYING APPARATUS. ADRIAN W. WISNER, Tacoma, Wash. Filed Dec. 5, 1923. Serial No. 678,641. 9 Claims. (Cl. 95—34.)



1. A photographic copying apparatus of the character described, comprising a housing provided with a lens and shutter therefor said housing containing rolls for carrying and winding the film, and means for holding, for exposure over the shutter of the camera-lens, a section of the film, means for moving sections of predetermined length of film successively through said film-holding means, said film-moving means comprising a film-pulling roller, an operative connection from the film-pulling roller to the said film-winding roll, a ratchet-wheel carried by the shaft of said film-pulling roller, a lever-fulcrumed adjacent said ratchet-wheel and carrying a pawl engaging with the latter, and an operative connection between said lever and said shutter.

1,756,112. BARBER'S-CHAIR ATTACHMENT. ANGELO ANTINORO, Johnstown, Pa. Filed Apr. 1, 1929. Serial No. 351,744. 1 Claim. (Cl. 55—188.)



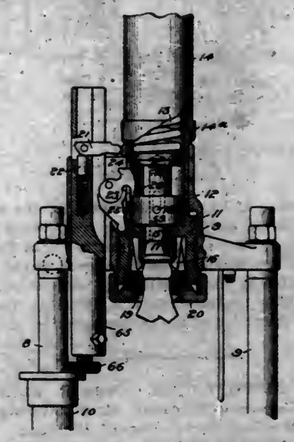
A barber's chair attachment, comprising a single thickness substantially U-shaped frame provided with opposed notches near the free ends thereof and in its uppermost edge, each notch presenting a vertically disposed wall and an outwardly inclined bottom to form a seat corresponding to the back of a head rest for the barber's chair, to be firmly held in said notches, a hanger formed with a shank secured medially of the frame and terminating in a circular head provided with a central hole to receive a common fastener for the cushion seat of the barbar's chair, said head of the shank being further provided with apertures concentrically of the hole for the engagement of a fastener in any one of the same, and a hook carried at the point of connection of the frame and shank.

1,756,113. ENVELOPE OPENER. LAMBERT BOLL, New York, N. Y. Filed Feb. 23, 1929. Serial No. 342,276. 8 Claims. (Cl. 120—35.)



1. An envelope-opener comprising a tubular body having a slot therein extending longitudinally thereof through which to insert an edge of the envelope, a slide operatively arranged within the body and provided with a series of inclined cutting members closely adjacent the slot for shearing off the inserted edge of the envelope, and means for operating said slide.

1,756,114. MACHINE FOR FILLING AND CAPPING BOTTLES. SAMUEL C. BOND, Holly Oak, Del. Filed Dec. 9, 1922. Serial No. 605,955. 13 Claims. (Cl. 226—77.)



10. The combination with a bottle filling and capping machine, of a filler head having a port therein, a combined filling and snifting valve controlling said port comprising concentric members movable in opposite directions for opening the ports controlled thereby, one of said members having a projection co-operating with the other member to open the latter when the first mentioned member is moved in a direction to close the port controlled thereby, and an operating handle connected with said last mentioned member.

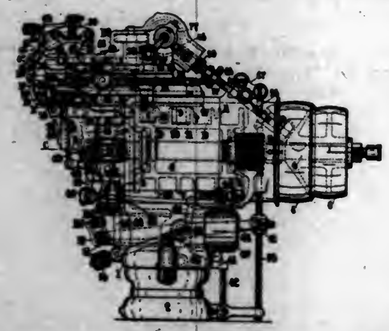
13. In a bottle, filling and capping machine, a filler head, means for applying caps to a bottle, a gasket to form a sealing contact with the bottle, means for contracting said gasket, and means actuated by the bottle for releasing said gasket to permit the expansion thereof.

1,756,115. BOX-TOE STRIP PACK. JOHN JOSEPH DALY, West Newton, Mass., assignor to Arden Box Toe Company, Watertown, Mass., a Corporation of Massachusetts. Filed July 21, 1926. Serial No. 123,882. 1 Claim. (Cl. 206—60.)



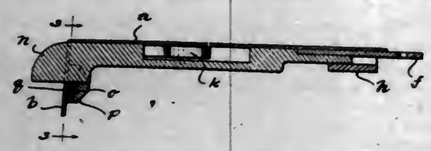
As a new article of commerce, a shipping pack comprising a plurality of strips of box toe material beveled on each longitudinal edge thereof and disposed in pairs with their beveled edges in reversed relation to each other, stiff protective top and bottom members for the pack and of greater width than the extreme width of the blanks thereof, and a bonding member extending about said pack and disposed across the beveled edges of said strips without contacting therewith and in protective relation thereto.

1,756,116. SOLE ROUNDING OR TRIMMING AND CHANNELING MACHINE. MARK THOMAS DENNE, London, England. Filed June 8, 1925, Serial No. 35,542, and in Great Britain June 11, 1924. 19 Claims. (Cl. 12—18.)



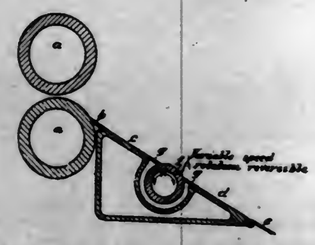
1. A machine of the type described, having a work support, a trimming knife, means to reciprocate said knife, means to move the work intermittently in the plane of operation of the trimming knife, a work guide, and means placed in action by the operator and while in action moving the work guide continually in a direction transverse to the plane of operation of the trimming knife.

1,756,117. COACH LATCH. JOHN B. FLYNN, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 14, 1928. Serial No. 246,672. 5 Claims. (Cl. 292—164.)



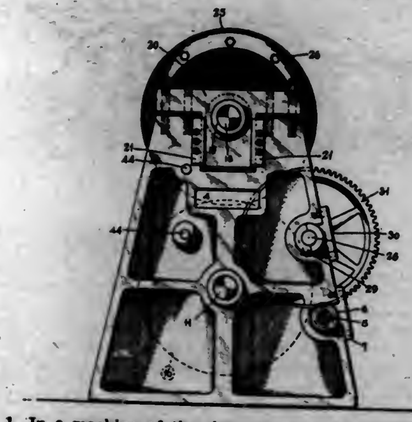
1. In a coach latch, the combination of a casing, a sliding bolt and other moving parts, and a reservoir secured to the casing and adapted to slidably engage the longitudinally guided face of said bolt and containing a lubricant to lubricate some of the moving parts.

1,756,118. INCLINED FEED TRACK FOR PLASTIC PLATE GLASS. RICHARD GENENGER, Aachen-Forst, Germany, assignor, by mesne assignments, to The American Bicheroux Company, a Corporation of Delaware. Filed Feb. 29, 1928, Serial No. 257,895, and in Germany Mar. 15, 1927. 5 Claims. (Cl. 49—33.)



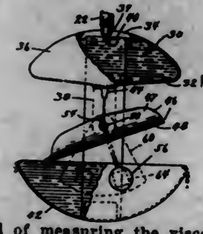
1. An inclined feed track for plastic glass plates, comprising a movable supporting roller mounted so as to protrude above the upper surface of the track into contact with the glass plates and adapted to be driven so as to cause its surface to move at various speeds in and opposite to the direction of movement of the glass plates.

1,756,119. PUNCHING MACHINE. CHARLES A. GILL, Baltimore, Md., and FRANK J. GEY, Jr., Pittsburgh, Pa. Filed Dec. 22, 1927. Serial No. 241,901. 5 Claims. (Cl. 164—16.)



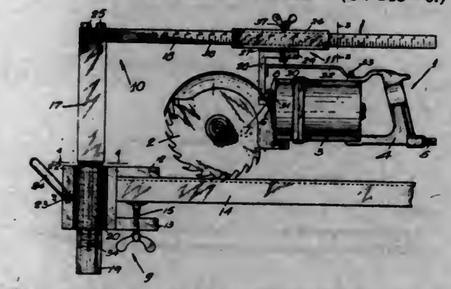
1. In a machine of the character described a die wheel comprising a rim having a peripheral groove coextensive with its periphery and centrally disposed with reference to the sides of the rim, annular grooves on each side of said rim, a die strip disposed on the periphery of said member having a tongue projecting into the peripheral groove of the rim, and ring gears disposed on each side of the rim having tongues extending into said side grooves.

1,756,120. VISCOSITY-MEASURING DEVICE. RICHARD J. HAUG, Nashua, N. H. Filed Oct. 26, 1925. Serial No. 64,778. 32 Claims. (Cl. 116—117.)



1. The method of measuring the viscosity of a liquid by the use of a hydraulic motor having a movable element, which method consists in discharging a stream of the liquid under constant pressure, upon the movable element of the motor and thereby displacing the movable element thereof, and observing the extent of such displacement.

1,756,121. SUPPORT FOR PORTABLE POWER SAWS. THERON L. HEDGPETH, Berkeley, Calif. Filed Jan. 4, 1928. Serial No. 244,411. 1 Claim. (Cl. 143—6.)



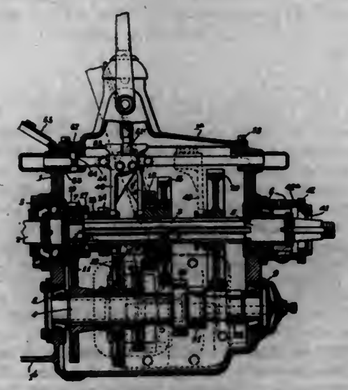
In a portable frame for power driven portable tools; clamping means; a standard having an arm extending

therefrom and being adjustably supported in said clamping means; a carriage slidable on said arm; a bracket provided with upper and lower horizontally extending arms, said bracket being attached to and depending from said carriage by said upper arm, and means carried by said lower arm for detachably securing said portable tool thereon.

1,756,122. PROCESS FOR RECOVERING BORAX FROM BRINE. HENRY D. HELLMERS, Westend, Calif., assignor to West End Chemical Company, Oakland, Calif., a Corporation of California. Filed Oct. 24, 1925. Serial No. 64,686. 2 Claims. (Cl. 23—39.)

1. The method of recovering borax from brine containing borate in solution together with sodium carbonate, which consists in treating the brine with carbonic acid gas to precipitate some of the carbonates, removing the precipitated carbonates from the solution, and crystallizing out the borax by cooling.

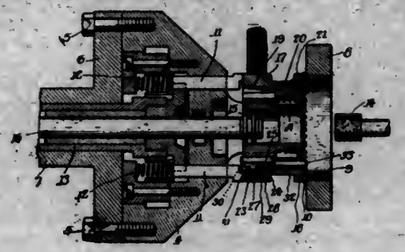
1,756,123. FIVE-SPEED TRANSMISSION GEARING. CLAUDE W. JARRETT and GEORGE HOWARD SKERRITT, Syracuse, N. Y., assignors to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed Jan. 24, 1928. Serial No. 249,023. 3 Claims. (Cl. 74—58.)



2. In a transmission gearing, the combination of a housing, a conventional gear set in the housing including drive and driven shafts in axial alinement, a countershaft, change speed gearing between the shafts, some of the gears being shiftable; a spindle mounted at one end in the wall of the housing, an intermediary gear mounted on the spindle, a gear on the countershaft with which the intermediary gear meshes, a support detachably mounted in the housing and having a bearing in which the other end of the spindle is mounted, a shaft carried by the support, gears mounted on the shaft and shiftable into and out of mesh respectively with a gear on the countershaft and one of the gears on the driven shaft, also, another of the gears on the driven shaft being shiftable into and out of mesh with the intermediary gear, and means for selectively shifting the gears.

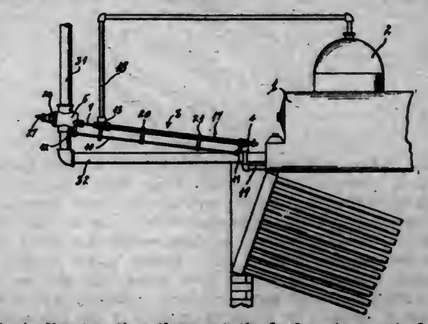
1,756,124. WORK HOLDER. HERBERT E. KEMPTON, KEITH F. GALLIMORE, and RAYMOND M. WOYTICH, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1925. Serial No. 2,776. 9 Claims. (Cl. 279—1.)

1. A work holding shuttle comprising in combination, a hollow cylindrical body open at both ends having an annular centering notch on one end and having a bore adapted to receive a gear blank in the other end, a plurality of independent clamping jaws shaped to fit between



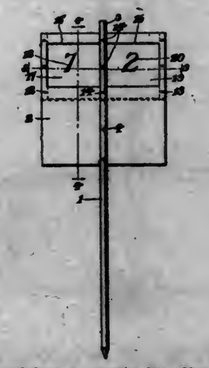
the teeth of a gear mounted for longitudinal and radial movements in said bore, and means for holding said clamping jaws against lateral displacement.

1,756,125. DIRECT-ACTION THERMOSTATIC FEED-WATER CONTROL. OTTO B. KIBELE, Wilmington, Calif. Filed Jan. 10, 1927. Serial No. 160,218. 2 Claims. (Cl. 122—451.1.)



1. A direct action thermostatic feed water control for boilers, comprising a thermostatic tube adapted to be mounted at an angle, a casting at the lower end of said tube, said casting being connected to the water in the boiler, a fitting at the upper end of said tube, said fitting being connected to the steam in the boiler, a valve casing, rods extending between and secured to said valve casing and said casting, said fitting being slidably mounted on said rods, a valve in said casing in direct alinement with said tube, a rod extending from said valve and threaded into said fitting, a shaft extending from said valve out of the valve casing whereby said valve may be adjusted on its seat.

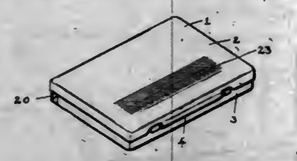
1,756,126. SIGNAL. JACK B. MAPLES, Middlesboro, Ky. Filed Dec. 5, 1928. Serial No. 323,944. 1 Claim. (Cl. 40—64.)



A signal comprising a vertically disposed rectangular front plate provided with a pair of opposed spaced open-

ings between its transverse median and its upper end, a back plate opposing the rear face of the front plate and having its lower end formed with a forwardly directed flange abutting such rear face below and in proximity to said openings, a pair of outer and an inner spacer member, arranged in spaced relation and interposed between and forming in connection with said plates a pair of spaced compartments, indicia carrying means removably mounted in said compartments and having the indicia thereon exposable through said openings, means for securing said plates and outer spacer members together, a standard having a portion intermediate its ends positioned against the outer face of said front plate between said openings, and means common to said plates, intermediate spacer member and standard for rigidly connecting them together.

1,756,127. SELF-FEEDING MATCH CASE. JOHN F. MARX, Rochester, N. Y., assignor of one-half to Gerald G. Burns, Rochester, N. Y. Filed Oct. 20, 1928. Serial No. 313,890. 2 Claims. (Cl. 206—33.4.)



1. A match box having a bottom and a false bottom above it with a space between them, said false bottom being narrower than the box and leaving a slot between it and one side of the box through which a match can drop to the bottom, an ejector or feed mechanism below the false bottom consisting of a bow spring, a jaw carried on one end thereof adapted to slide along said slot as the bow spring is moved back and forth, a second slot in the bottom of the box by which the middle of the bow spring is guided as it is moved back and forth, a handle attached to the bow spring and extending through the slot in the bottom of the box to the outside of the box by which the bow spring and its jaw may be moved back and forth along the first named slot.

1,756,128. CASING CUTTER. ALBERT M. MONROE, Taft, Calif. Filed June 25, 1927. Serial No. 201,530. 6 Claims. (Cl. 81—195.)



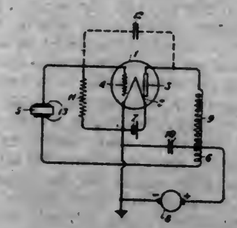
1. In a device of the type described, an anchoring head, casing engaging members slidably carried by said head, spring means for urging said members into operative position, locking means for holding said members in inoperative position and a weight for releasing said locking means.

1,756,129. OIL CAN FOR PRUNING SHEARS. HIROSHI NISHINAKA, Stockton, Calif. Filed Apr. 27, 1927. Serial No. 186,859. 4 Claims. (Cl. 30—11.)



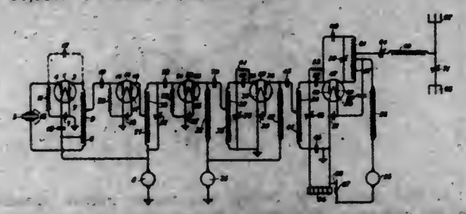
1. Means for oiling the pivot joint of the blades of a pruning shears having substantially round handles, comprising an oil container adapted to be disposed along one of the handles and having a nozzle adapted to terminate adjacent the contacting surfaces of the blades to the rear of but adjacent the pivot joint, means for clamping the container against the handle, and means provided on the container for preventing turning of said container relative to the handle.

1,756,130. OSCILLATION GENERATOR. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 14, 1925. Serial No. 50,336. 5 Claims. (Cl. 250—36.)



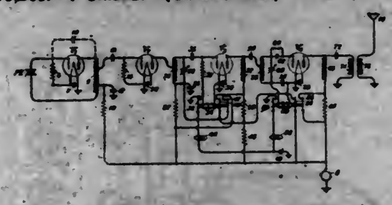
2. An oscillation generator comprising a three-electrode space discharge tube having input and output circuits coupled by virtue of the capacity existing between the electrodes of said tube to produce sustained oscillations, a piezo-electric element associated with the input circuit having a natural frequency substantially the same as the frequency for which the output circuit has a high and predetermined impedance, and means for starting said piezo-electric elements in vibration and for maintaining the continuity of said vibrations after being started.

1,756,131. HIGH-FREQUENCY-OSCILLATION GENERATOR. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 14, 1925. Serial No. 50,337. 5 Claims. (Cl. 250—36.)



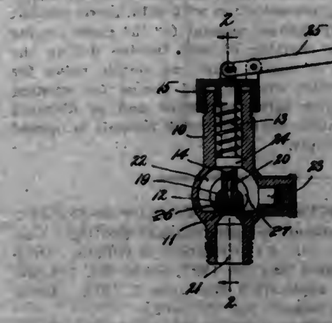
5. A harmonic producer for producing a harmonic of the frequency of an alternating current source, comprising a vacuum tube having plate, filament and grid electrodes, a resistance and a condenser effectively connected in parallel relationship between said grid and filament electrodes, and reactance elements included between the plate and filament electrodes resonant at a predetermined harmonic of the frequency of the source, the resistance and the condenser providing rectification of the current of the source.

1,756,132. HIGH-FREQUENCY-OSCILLATION GENERATOR. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 14, 1927. Serial No. 175,265. 7 Claims. (Cl. 250—36.)



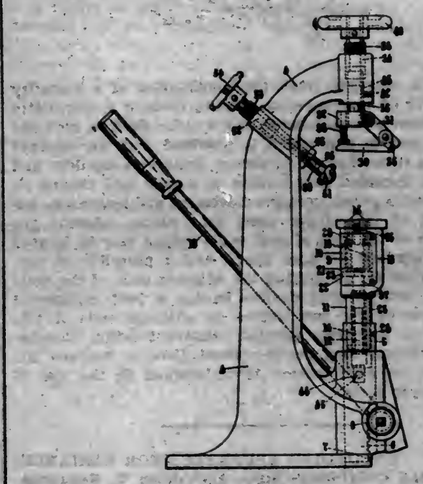
1. In a system for deriving current of a high frequency from current of a comparatively low frequency, the combination of an oscillation generator of low frequency, a piezo-electric device for maintaining the constancy of the generated oscillations, a plurality of harmonic producers connected in tandem with respect to said oscillation generator each consisting of a three-element vacuum tube in the input circuit of which there is a grid condenser and leak, and means for preventing excessive discharges in the output circuits of said vacuum tubes when the biasing potentials impressed upon the input circuits of the respective tubes are below predetermined values.

1,756,133. RELIEF VALVE. ERNEST G. PARKER, New Bedford, Mass. Filed June 5, 1926. Serial No. 113,866. 1 Claim. (Cl. 137—53.)



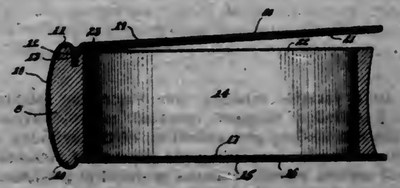
A relief valve of the class described comprising a body portion having a chamber therein; a valve seat in said chamber; a valve member comprising a plug of fusible metal having a valve seat contact washer thereon, said valve member being loosely mounted on said seat; a spring pressed plunger arranged to normally retain said valve member on said seat; said chamber having an inlet and an outlet, and a normally closed passage in which said plunger is located; said plunger having a passage therein leading into said chamber and normally closed to said inlet by said valve member; said body portion having a normally closed aperture therein through which a valve member may be passed to occupy its position on said seat when said valve is in assembled condition; and means to release said valve retaining plunger when a valve member is to be inserted into said body portion.

1,756,134. HEEL-ATTACHING MACHINE. FRANK HOWARD POCHIN, Leicester, England. Filed Oct. 15, 1927. Serial No. 226,478. 1 Claim. (Cl. 1—82.)



An apparatus for attaching heels to boots and shoes, comprising a frame, a shoe-supporting member adapted for vertical movement therein and formed with a recess, the portion of said member above the recess having nail-receiving apertures, an actuating rod slidable vertically in said member, a driver plate carried by said rod and operating in said recess, nail drivers having heads at their lower ends resting against said driver plate, a clamping plate screw-threaded to the actuating rod and clamping the drivers to said driver plate, said drivers being of such a length that when the driver plate is at the lower limit of its movement the upper ends of the drivers are received in said apertures, and a grub screw in the apertured portion of said member which by its adjustment operates to limit the driving movement of the nail driver.

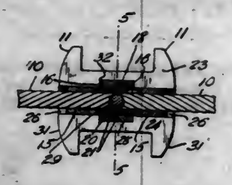
1,756,135. NOVELTY CONTAINER. JOSEPH A. RUSKIN, Chicago, Ill. Filed Apr. 20, 1929. Serial No. 356,844. 5 Claims. (Cl. 217—5.)



1. A device of the class described, comprising a main body portion provided with an article receiving recess, a

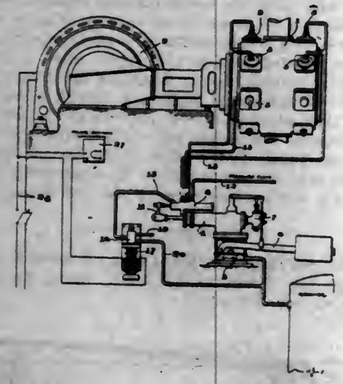
lower cover secured to said body portion, said body portion provided on its upper surface with a groove, a retaining strip adapted for insertion in said groove, an upper cover, and fly page having a portion of one edge projecting into said groove and held in place by said retaining strip, a continuation of said fly page secured to said upper cover whereby to hingedly mount said upper cover, substantially as described.

1,756,136. SECTIONAL DRIVE OR CONVEYER CHAIN. GEORGE D. RITTER, Carthage, N. Y. Filed July 13, 1927. Serial No. 205,875. 9 Claims. (Cl. 74—42.)



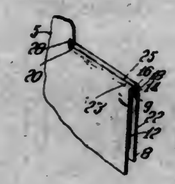
1. In a conveyer chain the combination of a plurality of sections of flexible twisted strand cable of substantially equal length arranged end to end, a collar fixed on each end of each section and which is provided with an external thread, a sleeve having an abrupt transverse shoulder and having a threaded bore formed to engage said thread on said sleeve to permit rotative movement and lengthwise adjustment of said sleeve along said collar, whereby the shoulders at the ends of each cable section may be located a predetermined distance apart, and a plurality of coupling devices for connecting the adjacent ends of the cable sections, each of said devices having a part engageable with parts on the two sleeves on adjacent ends of two sections to positively prevent relative rotation therebetween, whereby said predetermined distance between the shoulders on each section is maintained in the use of the conveyer chain.

1,756,137. UNLOADING APPARATUS FOR VARIABLE-VOLUME COMPRESSORS. ALEXANDER V. SAHAROFF, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Nov. 22, 1928. Serial No. 321,109. 16 Claims. (Cl. 230—4.)



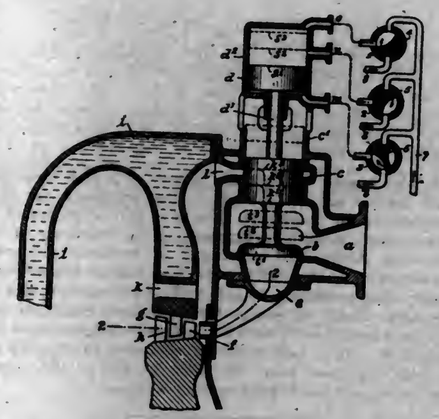
1. In a variable capacity compressor, the combination with a cylinder, pressure operated control valves controlling the loading and unloading of the cylinder, a distributor valve for controlling the passage of pressure fluid to said control valves, of means operated at predetermined times to admit control valve operating pressure fluid through said distributor valve in a reverse direction to the normal directional flow of fluid therethrough.

1,756,138. POCKET FOR GARMENTS. CARL E. SAHLSTROM, Chicago, Ill. Filed Oct. 26, 1928. Serial No. 315,128. 4 Claims. (Cl. 2—247.)



1. The method of facing a garment pocket opening which comprises stitching a facing piece upon the outer side of the garment fabric with its marginal edge along the position for the pocket opening, folding the facing piece back and stitching the folded back portion along the edge of the position for said opening and spaced from the line of fold to form a roll, cutting the pocket opening and turning the folded facing piece in through the opening and along the inner side of the garment fabric to invert the roll formed by the fold aforesaid.

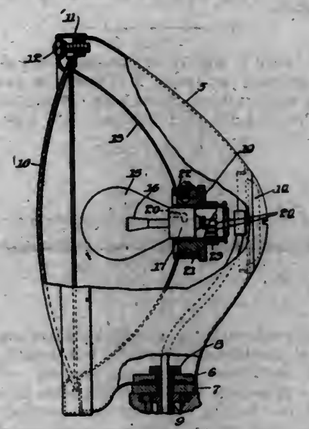
1,756,139. NOZZLE-VALVE CONSTRUCTION FOR COMBUSTION TURBINES. MICHAEL SEDLMEIR, Mulheim-Ruhr, Germany, assignor to Holswarth Gas Turbine Co., San Francisco, Calif., a Corporation of Delaware. Filed June 22, 1927. Serial No. 200,741. 5 Claims. (Cl. 60—40.)



1. In an explosion turbine, the combination of a nozzle, a nozzle conduit for conducting explosion gases from an explosion chamber to said nozzle, an outlet conduit adapted to be placed in communication with said nozzle conduit to form an auxiliary exhaust passage for the gases issuing from the explosion chamber of said turbine during the scavenging period, a nozzle valve, an outlet valve for controlling said outlet conduit, and means for opening said valve, the latter being connected and so disposed relatively to each other that the outlet conduit is opened after the nozzle conduit.

1,756,140. FOCUSING DEVICE. CLIFFORD SKLAREK, Chicago, Ill., assignor to International Spotlight Corporation, Chicago, Ill., a Corporation of Illinois. Original application filed May 25, 1927, Serial No. 194,022. Divided and this application filed June 6, 1928. Serial No. 283,208. 6 Claims. (Cl. 240—44.)

1. In a lamp including a reflector and a lamp bulb cooperating with the reflector, the combination with a socket adapted to receive the lamp bulb; of means for supporting said socket including a sleeve receiving said socket, and a fixed block forming a holder for the sleeve, said sleeve being laterally adjustable in said block, and said



socket being adjustable lengthwise of the sleeve; resilient means on the sleeve having frictional contact with the socket for holding the same in adjusted position, and resilient means on the block having frictional contact with the sleeve for holding the same in adjusted position.

1,756,141. MARKING DEVICE. FREDERICK W. SPELLMEYER, East Orange, N. J. Filed Dec. 24, 1927. Serial No. 242,504. 1 Claim. (Cl. 91—62.5.)



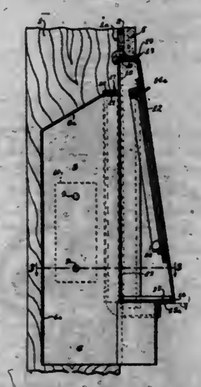
A marking device comprising in combination, a container for the marking medium, a discharge outlet therefor, a valve controlling said outlet and projecting therethrough for operation by pressure against the surface to be marked and one or more rigid guard elements upstanding adjacent and protruding at least as far as the end of the valve, whereby pressure of the device against an unyielding surface is ineffective to open said valve.

1,756,142. TOOTH BRUSH AND PASTE HOLDER. LOUIS SZAKÁCS, Naginey, Pa. Filed Oct. 25, 1928. Serial No. 315,021. 4 Claims. (Cl. 132—84.)



1. A device of the class described, comprising a sheet of material bent for presenting a top cover, a chamber back portion, and a chamber front portion, stitches securing the chamber back and front portions together, and other stitches dividing the chamber formed by the back and front portions into a plurality of brush sections, and pleated covers with central apertures automatically contracted by elastics, attached at the tops of each of the brush sections.

1,756,143. WALL-REGISTER CONSTRUCTION. FRANK Z. AHL, Sacramento, Calif. Filed Aug. 6, 1929. Serial No. 383,967. 5 Claims. (Cl. 98—114.)

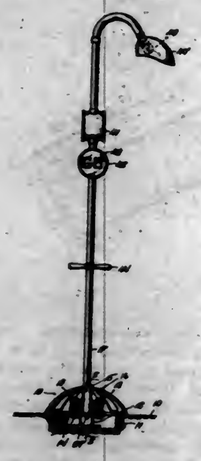


1. A device of the character described comprising a stackhead having an opening leading to a register having flanged sides, the edges of the opening of said stackhead adapted to be aligned in a plane with the exterior of a wall supporting means, a face frame angularly extending from said edges of the stackhead opening in relative parallelism with said exterior of the wall supporting means, said face frame having a flange extending forwardly and adapted to receive on the inner side thereof the side flanges of a register.

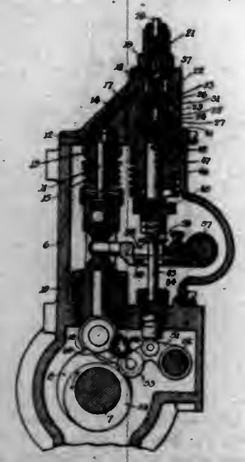
1,756,144. TRAFFIC SIGNAL. ARTHUR R. AMES, La Grange, Ill. Filed May 12, 1924. Serial No. 712,575. 11 Claims. (Cl. 177—337.)

7. In a traffic signal system, a plurality of stationary poles, a rotatable pole, means for removably supporting all of said poles, traffic directing lights at right angles carried by all of said poles, an electrical circuit including

said lights, and means responsive to the movement of said rotatable pole for breaking the circuit through certain of the lights on said stationary poles and closing the circuit through the remainder of the lights on said stationary poles.



1,756,145. FUEL PUMP. CARROLL R. ALDEN, Detroit, Mich., assignor to Ex-Cell-O Aircraft and Tool Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 3, 1928. Serial No. 244,077. 15 Claims. (Cl. 123—139.)



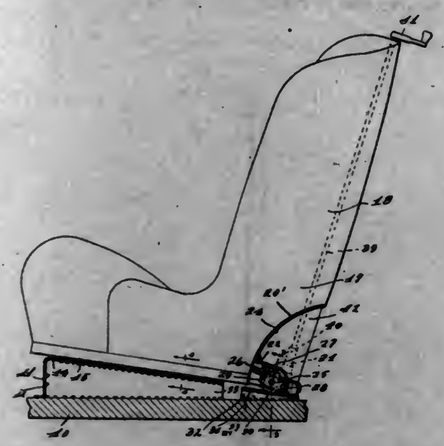
1. In a pump for supplying liquid fuel to the cylinder of an internal combustion engine, the combination of means providing a fuel receiving chamber adapted for communication with said cylinder, a piston operated from said engine and adapted on one of its strokes to compress the fuel in said chamber, a second chamber normally filled with liquid fuel, a third chamber normally drained, a main by-pass valve member having a stationary seat and providing a valve which when opened establishes communication between said first and second chambers, an auxiliary valve member extending axially of said first mentioned member and cooperating with a seat thereon to provide a valve controlling the flow of fuel from said first mentioned chamber to said third chamber, spring means acting on said auxiliary member and tending to hold both of said members seated, spring means tending to move said main member relative to said auxiliary member whereby to maintain said auxiliary valve closed, and means operable during the expulsion stroke of said piston to terminate the injection of fuel into said cylinder including a mechanism driven from the engine and operating to open said auxiliary valve whereby to relieve pressure in said first mentioned chamber.

1,756,146. BRICK MOLD. J. ADDISON CROWELL, Wallkill, N. Y., assignor to James B. Crowell & Son, Wallkill, N. Y., a Corporation of New York. Filed Jan. 24, 1929. Serial No. 334,672. 11 Claims. (Cl. 25—119.)



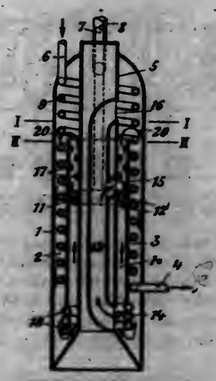
3. In a brick mold, a plurality of bottom panels, a plurality of partitions, a block of less length and width than said partitions positioned between each pair of panels, the upper side edges of said panels being normally flush with the bottom edges of said partitions, each of said panels and blocks having a dado intermediate its ends, and a metallic reinforcing strap in said dadoes, flush with the bottoms of said panels and blocks and extending longitudinally of said mold.

1,756,147. SEAT ASSEMBLY. JAMES H. CLARK, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 31, 1928. Serial No. 329,638. 7 Claims. (Cl. 154—14.)



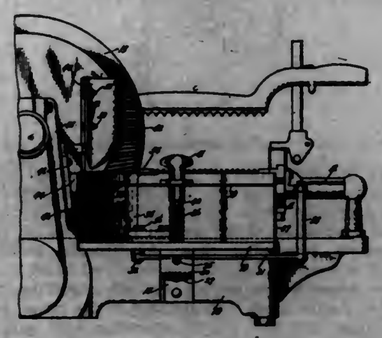
1. In combination, a supporting member, a seat member mounted for sliding movement relative to the supporting member, laterally spaced racks secured to one of said members, a shaft journalled in the other of said members, pinions upon said shaft and engageable with the racks aforesaid, a second shaft extending at substantially right angles to the shaft aforesaid, and terminating above the seat member, an operable connection between the two said shafts, and means including an operating handle carried by the second shaft above the seat member for rotating said second shaft to cause said pinions to move longitudinally of the racks and effect an adjustment of the seat relative to the support.

1,756,148. ABSORPTION REFRIGERATING MACHINE. GEORGE FERGUSON, The Hague, Netherlands, assignor to the Firm Gebrüder Sulzer Aktiengesellschaft at Winterthur. Filed Aug. 19, 1927, Serial No. 214,196, and in Switzerland Aug. 21, 1926. 4 Claims. (Cl. 62—118.)



1. In an absorption refrigerating machine a generator absorber comprising a tubular chamber, a heating pipe passing through said chamber, a tubular member concentrically disposed about and spaced from said pipe, a discharge pipe for returning refrigerant arranged in the space between said heating pipe and said tubular member, and a cooling coil concentrically disposed about and spaced from said tubular member.

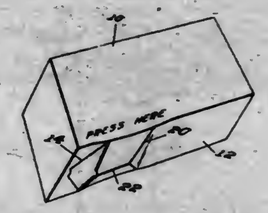
1,756,149. SLICE COLLECTOR FOR SLICING MACHINES. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed July 17, 1926. Serial No. 123,044. 54 Claims. (Cl. 146—94.)



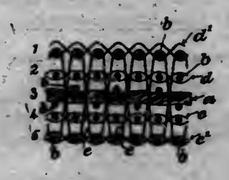
1. The combination with a slicing machine having a reciprocating table and a slicing knife of a slice receiver having a receiving surface below the surface of said table adjacent said knife, means for moving said receiver simultaneously in the same direction with said table, and means for directing slices broad side down on top of one another on said surface directly as they are severed from a piece on said reciprocating table.

1,756,150. READY-OPENING AND SELF-SEALING CARTON. ALBERT J. GANS, Los Angeles, Calif. Filed Nov. 14, 1928. Serial No. 319,407. 4 Claims. (Cl. 229—7.)

1. A ready-opening and self-sealing carton, including in combination, a top, sides, and bottom; one of the sides provided with a plurality of heavily scored lines adapted to be converted into self-closing cuts for use, and a number of lightly scored lines adapted to provide bends but not cuts, said heavily scored lines being at angles to the side edges of the carton and converging adjacent to the middle of said side, and one of the lightly scored lines parallel to the side edges of the carton and joining the said heavily scored lines.



1,756,151. WOVEN DRIVING BELTING. WILLIAM CHARLES GARDINER, Manchester, England, assignor to F. Reddaway and Company, Limited, Manchester, England. Filed May 29, 1928, Serial No. 281,426, and in Great Britain June 18, 1927. 4 Claims. (Cl. 139—458.)



1. A multi-ply woven belt comprising vegetable fibre plies and a ply composed of elastic hair warps laid in under relative tension sufficient to develop elasticity in the elastic hair warps, said hair warps being enclosed in the weaving as a stratum in extended condition and bound in by the weaving process, to maintain the stretched condition of the hair warps and produce an elastic core, whereby the belt has slight further extensile capacity, but has a balance of contractile power, the elastic hair warps functioning to develop a contractile capacity exceeding the extensile capacity.

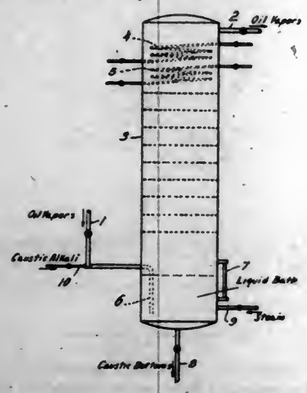
1,756,152. PROCESS FOR MANUFACTURING TOILET MATERIAL. TOKUJIRO HASHIMOTO, Tokyo, Japan. Filed Nov. 17, 1928. Serial No. 320,224. 5 Claims. (Cl. 167—91.)

1. A process for manufacturing a cosmetic for the skin consisting in dissolving india rubber in a volatile solvent with the aid of heat, adding water to said solution until the india rubber is present in the concentration of from 2 to 5% and boil said mixture under atmosphere pressure until the coagulative property of india rubber is lost, then distil the emulsion of india rubber under reduced pressure so as to drive away the volatile solvent.

1,756,153. MANUFACTURE OF LUBRICATING OILS. EUGENE C. HERTHEL, Chicago, Ill., and HARRY L. PELZER, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 16, 1928. Serial No. 285,820. 3 Claims. (Cl. 196—36.)

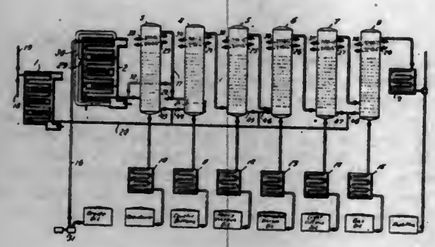
1. In the distillation of petroleum stocks for the production of lubricating oils, the improvement which comprises vaporizing from the stock those constituents suit-

able as components of the desired lubricating oil, passing the vapors containing these constituents through a hot but externally unheated liquid oil bath by introduction beneath the surface thereof, maintaining this oil bath alkaline by supplying caustic alkali thereto, discharging



liquid from this bath, and taking off from this oil bath the components of the lubricating oil in the vapor state and condensing the same without permitting this condensate to contact as such with the liquid forming the oil bath.

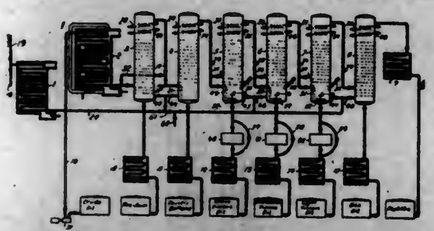
1,756,154. REFINING HYDROCARBON OILS. EUGENE C. HERTHEL, Chicago, Ill., and HARRY L. PELZER, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 16, 1928. Serial No. 285,821. 5 Claims. (Cl. 196—36.)



1. In the manufacture of distilled lubricating oils from petroleum stocks, the improvement which comprises flowing a stream of the stock through a heating zone into a vapor separating zone, heating the stock to a vaporizing temperature in the heating zone, separating the vapors and liquid oil in the vapor separating zone, passing the vapors separated in the vapor separating zone through a hot liquid oil bath maintained alkaline by supplying caustic alkali thereto, subjecting the vapors escaping from the hot alkaline oil bath to a fractionating operation and condensing high boiling constituents therein, taking off vapors from the fractionating operation and condensing a lubricating oil fraction therefrom.

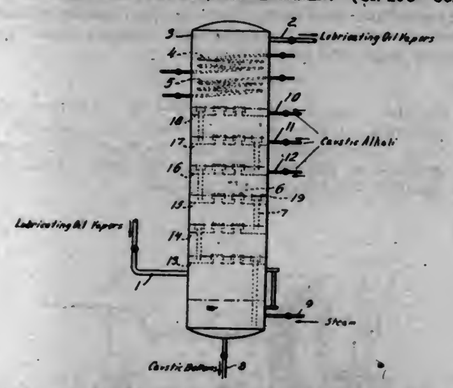
1,756,155. REFINING HYDROCARBON OILS. EUGENE C. HERTHEL, Chicago, Ill., and HARRY L. PELZER, Highland, and JAMES G. STAFFORD, Whiting, Ind., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 16, 1928. Serial No. 285,822. 5 Claims. (Cl. 196—36.)

1. In the manufacture of distilled lubricating oils from petroleum stocks, the improvement which comprises flowing a stream of the stock through a heating zone into a vapor separating zone, heating the stock to a vaporizing temperature in the heating zone, separating the vapors from the liquid oil in the separating zone, passing the vapors separated in the vapor separating zone through a hot liquid oil bath maintained alkaline by supplying caustic alkali thereto, subjecting the vapors escaping from the



hot alkaline oil bath to a fractionating operation and condensing high boiling constituents therein, taking off vapors from the fractionating operation and condensing a lubricating oil fraction therefrom, and subjecting the lubricating oil fraction as condensed and while still at elevated temperature to contact with a comminuted solid adsorbent.

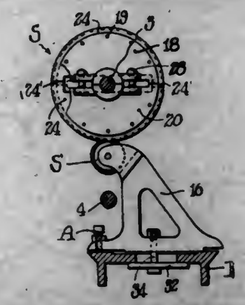
1,756,156. REFINING HYDROCARBON OILS. EUGENE C. HERTHEL, Chicago, Ill., and HARRY L. PELZER, Highland, Ind., assignors to Sinclair Refining Company, New York, N. Y., a Corporation of Maine. Filed June 16, 1928. Serial No. 285,823. 2 Claims. (Cl. 196—36.)



1. In the distillation of petroleum stocks for the production of lubricating oils, the improvement which comprises vaporizing from the stock those constituents suitable as components of the desired lubricating oil, passing the vapors containing these constituents successively through a series of hot alkaline liquid oil baths by introduction beneath the surface thereof, supplying caustic alkali to a bath other than the first in the series, passing liquid from this bath to the preceding bath and so on through the series in countercurrent to the vapors, discharging liquid from the first bath in the series, taking off from the last bath in the series the components of the lubricating oil in the vapor state and condensing the same without permitting this condensate to contact as such with the liquid forming the oil baths.

1,756,157. DECKLING AND SCORING MACHINE. OSCAR A. JOURET, Moosup, Conn., assignor to The Lester & Wasley Company, Inc., Norwich, Conn., a Corporation of Connecticut. Filed Oct. 22, 1928. Serial No. 314,159. 6 Claims. (Cl. 92—68.)

6. An apparatus of the class described comprising in combination, a bed, a pair of shafts rotatably supported thereby, co-operating feed rolls on said shafts for feeding a sheet, a bracket adjustable on said bed having a bearing portion between said shafts, coacting rolls for acting on a sheet fed forwardly by said feed rolls one of which is mounted on one of said shafts and the other of which

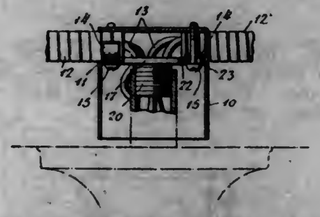


is rotatable on the bearing portion of said bracket and means associated with said bed and bracket whereby said bearing may be moved to move the roll therein towards and away from the other.

1,756,158. MANUFACTURE OF DITHIO DERIVATIVES FROM ALDEHYDES. GERALD J. LEUCK, Evanston, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 11, 1926. Serial No. 128,709. 7 Claims. (Cl. 260—54.)

1. A process for manufacturing a dithio derivative of an aldehyde which comprises causing a mixture of the aldehyde, an acid substance and a water soluble sulfide of a metal to react to form a dithio derivative of the aldehyde.

1,756,159. HICKEY AND MOUNTING THEREFOR. ALFRED LIEBOWITZ, Mount Vernon, N. Y. Filed Apr. 23, 1928. Serial No. 272,082. 2 Claims. (Cl. 247—20.)



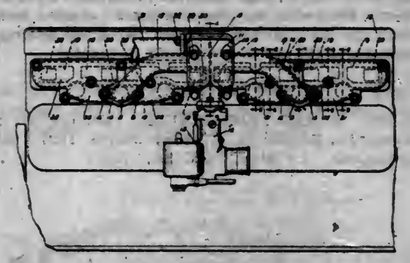
1. In an electrical connection, a casing, straps therein for securing electric conduits in position in the casing, fasteners for fixing said straps in the casing, and a hickey in said casing including laterally extending arms engaging said straps and fasteners and secured in position by the latter.

1,756,160. METHOD OF PRESSING WHEEL NAVES AND SIMILAR ARTICLES. KARL LOHS, Aue-in-Sachsen, Germany. Filed Sept. 14, 1928, Serial No. 306,048, and in Germany Apr. 6, 1927. 4 Claims. (Cl. 29—159.3.)



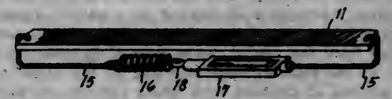
1. The method of forging wheel-naves and similar articles out of a single piece, which comprises pressing a heated, substantially solid blank in opposite directions and simultaneously forcing a portion of the flowing metal laterally of the direction of pressure, whereby an article having axially opposite recesses separated by an internal web and having an external flange is produced, and then again pressing said article and simultaneously forcing the flowing metal laterally of the direction of pressure along a lane spaced from said first flange.

1,756,161. MANIFOLD. EARLE S. MACPHERSON, Detroit, Mich., assignor to Hupp Motor Car Corporation, Detroit, Mich., a Corporation of Virginia. Filed Oct. 13, 1924. Serial No. 743,443. 7 Claims. (Cl. 123—122.)



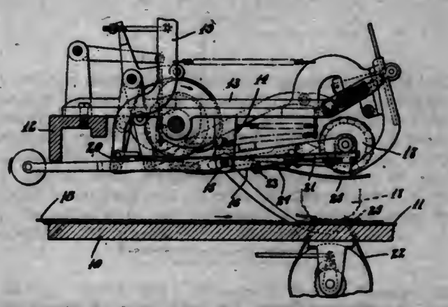
1. A manifold for internal combustion engines comprising an inlet passage for receiving a flow of intake gases, means for dividing the flow of gases into a plurality of branches, means for dividing each of said branches into a plurality of other branches, an outlet for said branches for communication with the engine intake, means for heating said gases at each of said points of division by means of the exhaust gases conducted in each case from those cylinders which are supplied by the intake gases passing the said respective points of division, and means for heating the gases during their flow between the last said point of division and their said points of outlet to the engine intake while permitting them to pass from the first point of division to the second point of division without being heated.

1,756,162. BLADE-SHARPENING DEVICE FOR LAWN MOWERS. KAMEKICHI MINAMI, Los Angeles, Calif. Filed Aug. 4, 1928. Serial No. 297,505. 1 Claim. (Cl. 76—82.1.)



A sharpening device, comprising a file, cords extending from the ends thereof, and a spring and turnbuckle interposed between the ends of said cords whereby the file may be clamped to a lawn mower frame to contact with the blades.

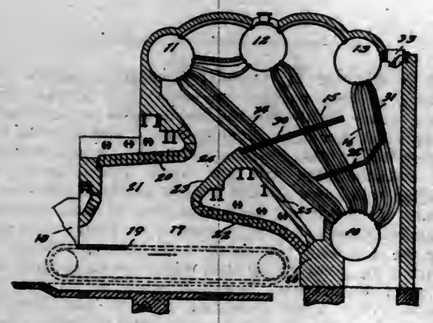
1,756,163. MARKING MACHINE. DANA E. HARDING, Melrose, Mass., assignor to Harding Engineering Company, East Boston, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1928. Serial No. 244,880. 2 Claims. (Cl. 101—95.)



1. In a device of the kind described, the combination of a pivotally mounted frame, a plurality of character wheels rotatably mounted at the end thereof, a platen, an endless conveyor adapted to move material to be worked on over

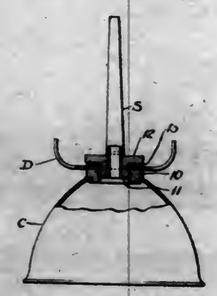
the platen, means for moving the frame about its pivot to bring the character wheels into engagement with the material being fed over the platen, a resilient member secured to said pivotally mounted frame and adapted to engage with the moving material in advance of the engagement therewith by the character wheels, and to maintain the material being worked on at rest during the engagement of the character wheels therewith.

1,756,164. WATER-TUBE BOILER. ARTHUR W. PATTERSON, Jr., Roselle, N. J. Filed July 5, 1927. Serial No. 203,402. 3 Claims. (Cl. 122—302.)



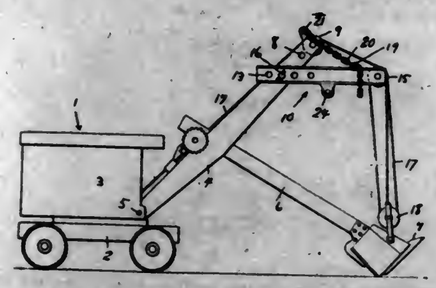
1. The combination with a water tube boiler of the Sterling type having a lower drum and a plurality of upper drums and tubes connecting said drums, of a furnace having a fire box extending in front of the lower drum, a back combustion arch extending from a point adjacent the lower drum forwardly over the rear portion of the firebox and then rearward and upward to a point adjacent the intermediate portion of the front tubes, a cross baffle extending from the top of the back arch transversely of the tubes in the same general direction as the upper face of said portion of the back arch which extends rearward and upward, and a second baffle having a section spaced below said cross baffle and extending transversely of the tubes and another section extending upwardly from the end of said section longitudinally of the tubes to the rear drum.

1,756,165. GRIPPING DEVICE FOR OIL CANS AND THE LIKE. EDWARD R. PETRIE, New York, N. Y. Filed Mar. 13, 1928. Serial No. 261,226. 4 Claims. (Cl. 221—33.)



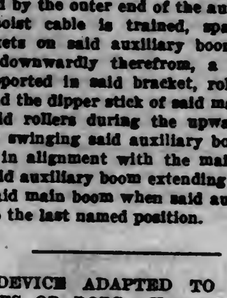
1. A gripping device for containers of the class described comprising a central apertured body portion, and a finger piece part extending from said body portion, and spaced clips on said body portion for retaining the same in connection with a support.

1,756,166. AUXILIARY BOOM FOR EXCAVATORS. GEORGE W. ACUFF, Jr., St. Louis, Mo. Filed Feb. 7, 1929. Serial No. 338,225. 2 Claims. (Cl. 214—135.)



2. In an excavator, in combination with a main boom, a dipper stick operatively associated with said main boom, a dipper carried by the outer end of said dipper stick, a hoist cable attached to the dipper to lift the same, an auxiliary boom attached at its inner end on the upper end of the main boom for vertical swinging movement, a sheave carried by the outer end of the auxiliary boom over which the hoist cable is trained, spaced transversely aligned brackets on said auxiliary boom extending outwardly and downwardly therefrom, a transverse shaft rotatably supported in said bracket, rollers mounted on said shaft, and the dipper stick of said main boom adapted to engage said rollers during the upward movement of said stick for swinging said auxiliary boom to a position substantially in alignment with the main boom, and the free end of said auxiliary boom extending beyond the adjacent end of said main boom when said auxiliary boom has been swung to the last named position.

1,756,167. DEVICE ADAPTED TO BE SCREWED ONTO PIPES OR RODS. HENRY W. AVERY, Cleveland, Ohio. Filed Feb. 15, 1926. Serial No. 88,202. 3 Claims. (Cl. 137—91.)

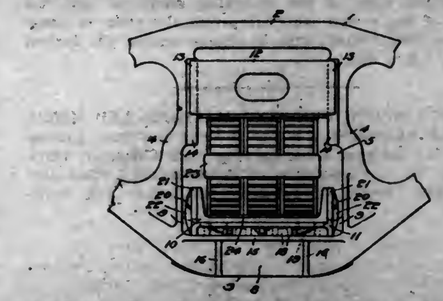


1. A device adapted to be screwed onto a threaded pipe or rod comprising an expansible sleeve formed from a strip of corrugated stock rolled into annular shape, an unthreaded ring seated in one of the circumferential grooves formed by the corrugations of said stock and constituting the thread engaging part of the device, said ring being held from rotation relative to the sleeve and formed of relatively soft material into which a thread may be cut when the device is screwed onto the threaded pipe or rod.

1,756,168. RAILWAY TRUCK. DONALD S. BARROWS, Rochester, N. Y. Filed Sept. 14, 1928. Serial No. 306,019. 15 Claims. (Cl. 105—197.)

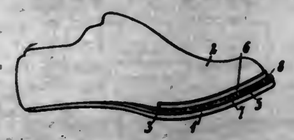
1. In a truck, in combination, a side frame formed with compression and tension members spaced at intermediate portions thereof by bolster guide columns leaving a window

opening therebetween, the tension member beneath the window opening being provided with a spring seating por-



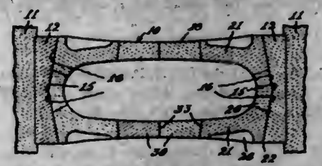
tion, a nest of springs seated on said portion, and diagonal reinforcing members disposed below the spring seating area of said spring seating portion.

1,756,169. FOOTWEAR. JAROSLAV BENDA, Prague, Czechoslovakia. Original application filed Oct. 11, 1924, Serial No. 743,140, and in Czechoslovakia Oct. 9, 1923. Divided and this application filed May 11, 1926. Serial No. 108,402. 2 Claims. (Cl. 36—78.)



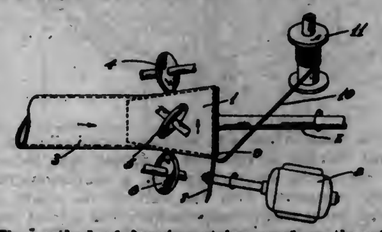
1. A welted footwear wherein the welt is composed of a body strip and a facing strip made of different materials, the body strip being stitched to the sole and the facing strip cemented to the body strip by means of a celluloid solution.

1,756,170. RETORT STRUCTURE. EDWIN G. BLACKWELL, New York, N. Y. Filed Sept. 22, 1927. Serial No. 221,243. 9 Claims. (Cl. 202—223.)



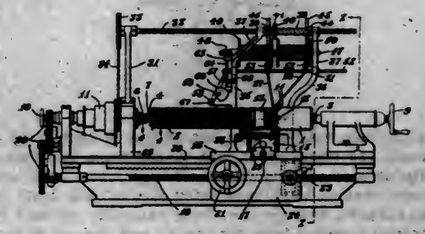
1. In combination with spaced vertical walls, a retort abutting said walls comprising courses of fire abutting bricks laid in planes transverse to said walls including vertical planes of contact between each of said bricks and bricks contiguous thereto, the vertical planes of contact of said bricks on to opposite sides of each brick converging toward the exterior of said retort.

1,756,171. PROCESS OF MAKING RUBBER THREAD. FRED W. BOMMER, Everett, Mass. Filed Sept. 2, 1927. Serial No. 217,289. 4 Claims. (Cl. 164—17.)



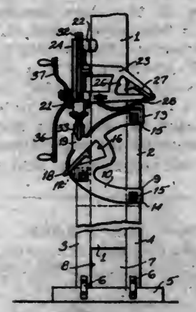
1. The method of forming strips, cord or thread comprising, providing an elastic tube of rubber or like elastic material, applying a cutter to the periphery of the tube near an end thereof, maintaining the end of the tube at the cutter abnormally stretched and distended with relation to the distention of the rest of the tube, and simultaneously rotating the tube and feeding the distended end thereof toward the cutter to remove a continuous, helical strip or thread therefrom.

1,756,172. THREAD-CUTTING MACHINE. FRED W. BOMMER, Everett, Mass. Filed June 5, 1928. Serial No. 283,045. 2 Claims. (Cl. 164—69.)



1. In a machine for cutting a thread or strip from a tubular body of rubber or like elastic material, the combination with a rotary cutter having a shearing edge, of a mandrel on which said tubular body may be mounted, said mandrel having on its surface a helical groove and presenting to the cutter a shearing edge or wall, means to rotate the mandrel, means to rotate the cutter, and means to move the cutter with its shearing edge in contact with the shearing edge of said helical groove to effect a shearing cut on said tubular body and remove therefrom a continuous thread or strip.

1,756,173. SHORE-ADJUSTING TOOL. GEORGE B. BOSCO, Chicago, Ill. Filed Mar. 12, 1928. Serial No. 260,822. 1 Claim. (Cl. 254—100.)

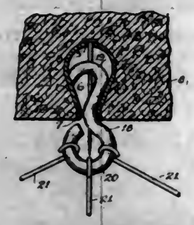


A tool for adjusting a pair of overlapping struts comprising a fitting adapted to embrace one of the struts, means for adjustably securing said fitting to said one strut, a guideway on said fitting, a screw plunger in said guideway and secured against rotation relative to said fitting, said fitting being relatively movable axially of said plunger, a bearing part on said plunger adapted to engage the other strut, and an operating handle mounted on said fitting and geared to said plunger.

1,756,174. WALL TIE. GEORGE B. BOSCO, Chicago, Ill. Filed May 2, 1928. Serial No. 274,478. 1 Claim. (Cl. 72—105.)

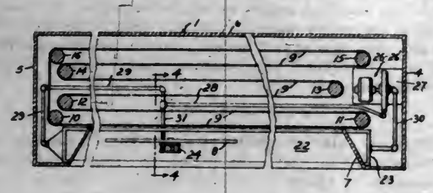
An anchoring device comprising a channel member adapted to be embedded in a structural unit and having an opening extending longitudinally thereof, the sides of

said channel converging toward said opening, and a bendable tie rod slidable in said opening, the inner end of said rod being located in said channel and being bent to form a bearing head having inclined bearing surfaces adapted to engage said converging sides, one of said bearing surfaces being substantially flat and being formed on the inner extremity of said tie rod, said head being of greater



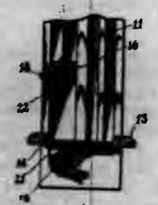
breadth than said opening but of less breadth than said channel, the thickness of said tie rod being less than the width of said opening to permit said head to be turned in said channel, said head being also of less depth than said channel whereby the inner extremity of said head is normally spaced from the base of said channel to permit a limited axial movement of said tie relative to said channel.

1,756,175. ILLUSORY TRAVEL-SCOPE. JOHN G. BOYD, Oakland, Calif. Filed June 1, 1927. Serial No. 195,607. 4 Claims. (Cl. 46—37.)



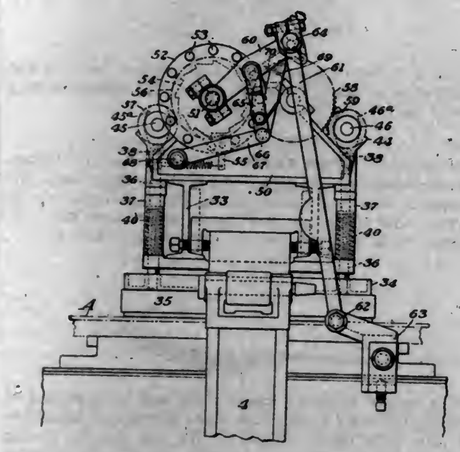
4. In a device of the class described, a miniature representation of a fluid borne object of travel fixedly disposed in the appropriate fluid therefor and arranged to be viewed from an external point at a side thereof, a movable panoramic background therefor, means for moving said background, a fluid operable propeller on said representation, and means for imparting motion to said fluid to operate said propeller for cooperation with said panorama to indicate self-propulsion of said representation.

1,756,176. WINDOW FLY SCREEN. ADOLPHE BRIÈRE, Montreal, Quebec, Canada. Filed Aug. 12, 1927. Serial No. 212,442. 2 Claims. (Cl. 156—39.)



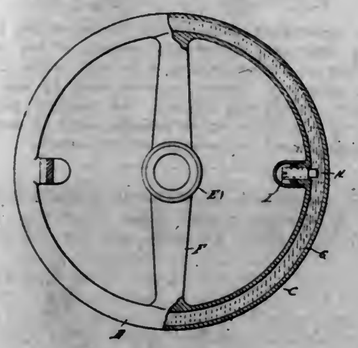
1. The combination with a lower window sash having a bottom rail formed at its longitudinal center with a vertically extending recess intersecting a horizontally extending bore provided with locking pins, of an attaching strip of slightly less width than said rail, a bracket fixed to the center thereof, and having an ear extending into the said vertically extending recess, said ear being slightly longer than the depth of said recess, and engaged by the locking pin, and screen material attached to the inner longitudinal edge of the attaching strip, so that the weight of the screen material pivots the strip to cause the outer longitudinal edge to engage against the bottom of the bottom rail.

1,756,177. BLOCK PRINTING MACHINE AND METHOD OF PRINTING. WILLIAM PENN BRINTON, Lancaster, Pa., assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 17, 1928. Serial No. 247,819. 12 Claims. (Cl. 101—199.)



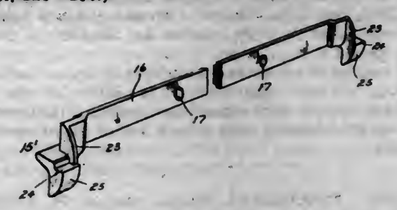
1. In a block type printing machine, a guided movable printing head, means for moving the material through the machine in a step-by-step manner, and a printing surface on the head divided in two directions, each part of the printing surface being movable up and down to a limited extent on the head relatively to the other.

1,756,178. VIBRATION DAMPENER. ALANSON P. BRUSH, Detroit, Mich. Filed Aug. 26, 1925. Serial No. 52,660. 2 Claims. (Cl. 74—6.)



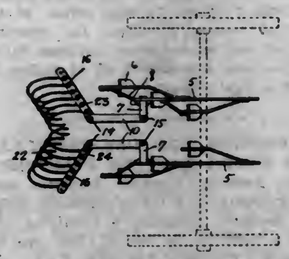
1. The combination with a rotary shaft, of a fly wheel mounted thereon, a vibration dampener mounted on the other end of the shaft comprising a continuous annular chamber concentric with the axis of the shaft, a low viscosity liquid within said chamber and a local constriction at one point within the chamber for resisting the flow of the fluid therein.

1,756,179. RANGE. WILLIAM A. BUSBEE, Belleville, Ill. Filed Mar. 25, 1927. Serial No. 178,313. 3 Claims. (Cl. 126—190.)



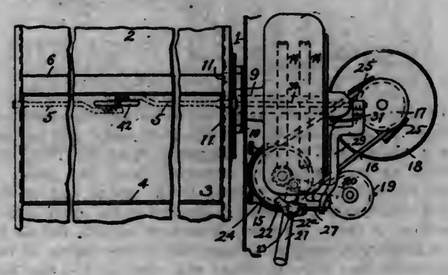
1. An oven frame, an oven door, a concealed hinge element having ends including curved surfaces terminating in a bearing edge, said element secured to the door for rotation within the frame, securing means comprising cylindrical projections secured to the inner lower face of said door, said projections being positioned in holes, which holes are formed in said hinge element, and bolts positioned in threaded engagement in holes formed in said cylindrical projections.

1,756,180. CULTIVATOR ATTACHMENT. WILLIAM F. CECIL, Holland, Mo. Filed May 16, 1929. Serial No. 363,466. 3 Claims. (Cl. 97—8.)



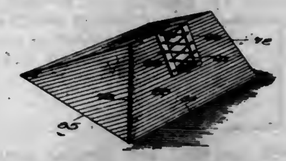
1. An attachment of the class described comprising a bracket adapted to be attached to a cultivator, a bar adjustably engaged with the bracket to extend laterally therefrom, a beam, means for adjustably connecting the beam with the bar, said beam having a plurality of notches at one edge and a plurality of openings one in the rear of each notch, and a plurality of teeth having curved shank portions straddling the edge provided with a notch, one curved shank seated in each notch and said curved shank terminating in eyes and bolts extending through the eyes and threadedly engaged in the openings.

1,756,181. SAFETY DEVICE FOR WASHING MACHINES. ARTHUR R. CURTIS, Cleveland, Ohio. Filed Mar. 31, 1924. Serial No. 703,050. 15 Claims. (Cl. 192—135.)



9. In a washing machine, the combination with a horizontally disposed rotatable cylinder having an opening in its cylindrical wall and a lid for the opening adapted to be secured thereto to close the opening, of mechanism for rotating the cylinder, a manually operable controller for said mechanism, and means interposed between the controller and lid for locking the controller when the lid is open.

1,756,182. AUXILIARY SEAT. BRENT S. DRANE, Charlotte, N. C. Filed Jan. 20, 1928. Serial No. 248,178. 8 Claims. (Cl. 155—182.)



1. A frameless auxiliary seat of fabric material, said seat comprising a bottom portion, a back portion, and side portions, said side portions comprising webs joining the outer margin of said back portion with the outer margin of said bottom portion, the outer margins of all of said portions forming in effect a strap adapted to extend under the legs and across the back of the user, and means to adjust the perimeter of said seat along said margins.

1,756,183. INNER-TUBE PATCH. CLARENCE E. DUNLAP, Sioux City, Iowa. Filed Jan. 7, 1929. Serial No. 330,820. 1 Claim. (Cl. 152—26.)



An inner tube patch of preformed shape, comprising a layer of uncured rubber, a layer of protective fabric adhering to the adhesive face thereof, and a layer of cured rubber united with the rear face thereof, the edge of the cured layer being bevelled through a majority of its thickness, and the remainder of its thickness together with all of the uncured layer and the fabric, being cut off squarely to leave a shoulder of cured rubber completely covering the rear face of the uncured layer.

1,756,184. GAUGE-GLASS FITTING. GEORGE ERNST, Newark, N. J. Filed Dec. 1, 1927. Serial No. 236,971. 10 Claims. (Cl. 251—50.)

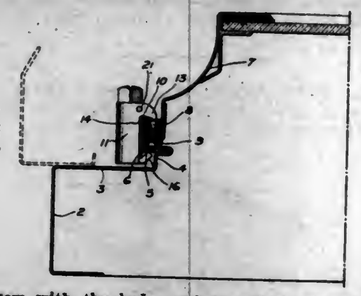


1. A device of the character set forth including a valve body, and a gauge head having lateral detachable connection therewith, said body carrying a coaxial yoke structure, a packing gland, and adjustable means to cause the yoke structure to exert pressure on said gland.

1,756,185. CLAMPING MEANS FOR CASKETS. JOSEPH E. FALCK, Pittsburgh, Pa., assignor to National Casket Company, Incorporated, Pittsburgh, Pa., a Corporation of New York. Filed May 10, 1927. Serial No. 190,159. 2 Claims. (Cl. 27—17.)

1. Clamping means for caskets, comprising a channel shaped body of substantially uniform cross section hav-

ing open end portions freely open throughout substantially the entire width of the channel, a screw in said body projecting through one end, means for interlocking



the screw with the body, and engaging means operable by the screw and movable through the other end of said body.

1,756,186. RESILIENT SCREW STUD. PAUL E. FENTON, Thomaston, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 24, 1928. Serial No. 308,040. 3 Claims. (Cl. 24—213.)



2. A resilient screw stud, having a two-diameter head provided with a ledge on its larger portion, and a shell surrounding the head and having a series of spring wings bulged outwardly, the tips of said wings overlying the ledge.

1,756,187. ELECTRIC WELD FORM SPACER. WALLACE A. FERRIS, Los Angeles, Calif. Filed Feb. 12, 1927. Serial No. 167,818. 1 Claim. (Cl. 72—122.)



In the art of concrete fireproofing for steel structures, a spacer for maintaining a predetermined distance between the side of a metallic structural element and a member of a wooden form to confine the concrete, said spacer consisting in a staple forming a standard pointed at one end for insertion into the wooden mold member and provided at the other end with a bend forming a driving head adapted to contact with the metallic structural element to be encased; and a cross bar fixed to the legs of the staple near the pointed ends thereof to serve as a stop to gage the depth to which the ends will be driven.

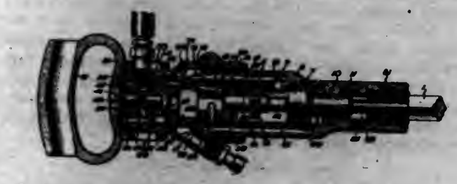
1,756,188. METHOD OF PRESERVING EGGS AND THE YOLKS AND WHITES THEREOF. JOSEPH FOUSEK, San Francisco, Calif. Original application filed May 11, 1927, Serial No. 190,655. Divided and this application filed Mar. 5, 1929. Serial No. 344,598. 1 Claim. (Cl. 99—11.)

The method of preserving the yolks of eggs, consisting in taking by weight equal parts of yolk of egg and sugar and mixing this composition under a temperature of approximately 50 degrees Reaumur until smooth and of the consistency of honey.

1,756,189. METHOD OF PRESERVING EGGS AND THE YOLKS AND WHITES THEREOF. JOSEPH FOUSEK, San Francisco, Calif. Original application filed May 11, 1927, Serial No. 190,655. Divided and this application filed Mar. 5, 1929. Serial No. 344,599. 1 Claim. (Cl. 99—11.)

The method of preserving the whites of eggs, consisting in taking by weight equal parts of the whites of eggs and sugar and mixing this composition under a temperature of 50 degrees Reaumur until smooth and of the consistency of syrup.

1,756,190. PERCUSSIVE TOOL. GEORGE H. GILMAN, Belmont, Mass. Filed Mar. 5, 1921, Serial No. 449,667. Renewed Sept. 12, 1929. 19 Claims. (Cl. 121—17.)

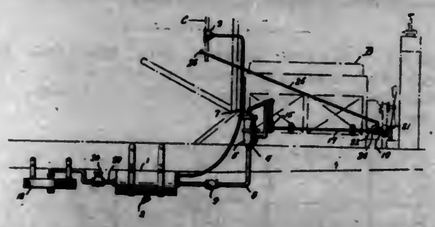


1. In a percussive tool, a cylinder and a piston presenting opposed pressure surfaces, means providing a chamber communicating with said cylinder adjacent its pressure surface and adapted to be closed from communication with said cylinder by said piston at the end of its stroke, and means providing for preadmission of motive fluid between said opposed surfaces before closure of said chamber and for cutting off of motive fluid after said chamber is again opened.

1,756,191. PROCESS FOR DRY DISTILLATION OF VINASSES UNDER REDUCED PRESSURE. JOSEPH GUILLISSEN, Anderlect-Brussels, Belgium, assignor, by mesne assignments, to L'Union Chimique Belge, Societe Anonyme, Brussels, Belgium, a Company of Belgium. Filed Nov. 8, 1923, Serial No. 673,549, and in Belgium Dec. 15, 1922. 1 Claim. (Cl. 202—52.)

In the process of producing ammonia and amines utilizable commercially and acetone, subjecting vinasses to pyrogenous distillation under a pressure of approximately 60 m/m of mercury and in the presence of such an amount of lime as is required to produce acetone.

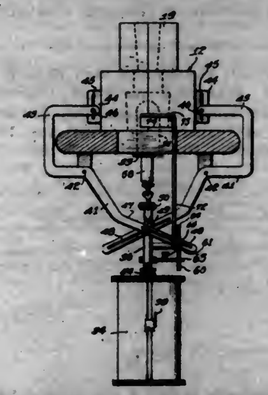
1,756,192. AIR-PRESSURE APPARATUS FOR AUTOMOBILES. JOHN HANSON, Pelican Rapids, Minn. Filed May 10, 1927. Serial No. 190,276. 1 Claim. (Cl. 230—38.)



In an air pressure device for an automobile the combination of an air pump fixed to the automobile and including a piston and a stem extending upwardly from the piston, an arm extending upwardly from the pump, a lever pivoted between its ends to the upper end of the arm and pivotally connected at one end to the upper end of the stem, a shaft, bearings adapted to support the shaft, in a horizontal position at one side of the engine of the automobile and with its front end close to the fan belt of the engine, an eccentric secured to the rear end of the shaft and a strap associated therewith, a rod secured to the eccentric strap and having a ball and socket con-

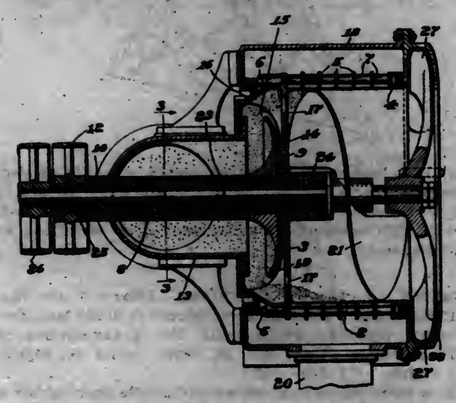
nection with the other end of the lever, a stub shaft, a bearing adapted to be secured to the engine to rotatably support the stub shaft close to the fan belt, a pulley secured to the stub shaft for contact with the fan belt having a clutch face, the front end of said first shaft being of non-circular formation, a clutch member having a bore provided with a non-circular portion receiving said end of the shaft, a spring normally holding said second clutch member in engagement with said clutch face of the pulley, and means by which said clutch member may be withdrawn from engagement with said clutch face and held out of engagement therewith.

1,756,193. APPARATUS FOR MOLDING PLUGS AND THE LIKE. CHARLES MARVIN HART, Waycross, Ga. Filed Oct. 15, 1927. Serial No. 226,475. 8 Claims. (Cl. 22—92.)



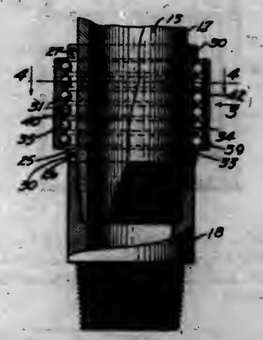
3. Molding apparatus comprising a horizontal base provided with an opening, a pair of relatively movable complementary mold sections arranged on said base, a retractable core slidably mounted in said opening and normally arranged within said mold, a cylinder, a piston mounted to reciprocate in said cylinder and provided with a piston rod projecting from one end thereof, a pair of levers pivotally supported intermediate their ends and connected at one end to each of said sections, and connections between said piston rod and the opposite ends of said levers.

1,756,194. PROCESS AND MACHINE FOR THICKENING PULP. ANTON JOSEPH HAUG, Nashua, N. H. Filed Sept. 4, 1926. Serial No. 133,579. 15 Claims. (Cl. 92—35.)



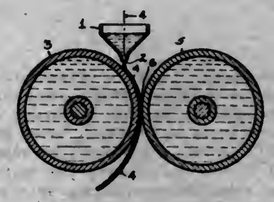
1. In a pulp thickening machine, the combination of a screening drum adapted to be revolved rapidly to create centrifugal force for promoting the screening action, means for conducting the material to be thickened into the interior of said drum, whereby the thickened pulp will collect upon the inner surface of said drum, and means revolving independently of said drum for advancing only the pulp on and closely adjacent to the screening surface toward the outlet therefor.

1,756,195. ANTIFRICTION BEARING FOR DRILL PIPES. HALL H. HOLDAWAY, Long Beach, Calif., assignor to Byron Jackson Co., West Berkeley, Calif., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,231. 10 Claims. (Cl. 308—6.)



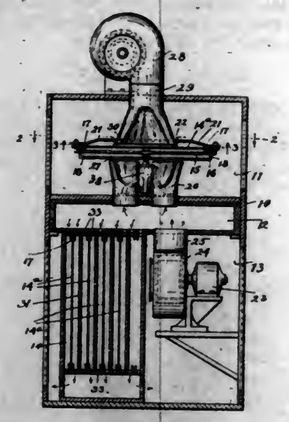
1. In an anti-friction bearing for drill pipe, the combination of: an inner race having a number of ball channels, said inner race being adapted to surround a drill pipe and having a groove connected to all of said ball channels; an outer race adapted to surround said inner race, said outer race having ball channels arranged to align with said ball channels of said inner race, and said outer race having a groove connected to all of said ball channels of said outer race; balls in said ball channels, said balls being inserted through said grooves when they are aligned; and an insert for filling one of said grooves.

1,756,196. METHOD OF MAKING METAL SHEETS. BEN F. HOPKINS and JOHN V. O. PALM, Cleveland Heights, Ohio, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 23, 1928. Serial No. 256,226. 1 Claim. (Cl. 207—10.)



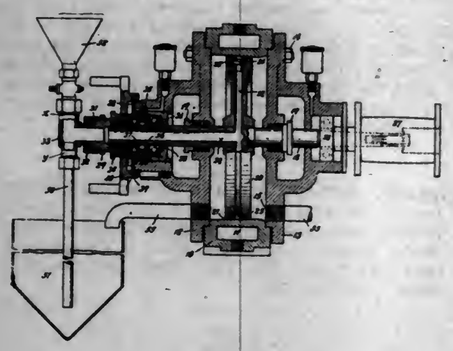
In a method of casting metal strips, the steps which consist in pouring against a horizontal roll at a point materially above the central horisontal plane thereof, molten metal in a column approximating the width and thickness of the desired strip, maintaining the temperature of said roll sufficiently below that of the metal to at least partially solidify the latter between its point of engagement with the roll and the central horisontal plane thereof, and then engaging the partially solidified strip with a second roll while maintaining a relationship between the rolls adapted to compress and size the resulting metal strip.

1,756,197. FILM DRIER. GEORGE W. HOPKINS, Cleveland, Ohio. Filed Feb. 23, 1926. Serial No. 89,967. 13 Claims. (Cl. 34—26.)



1. In a drier, a cabinet having means for rapidly rotating a film about a transverse axis, and having means for creating an air flow on opposite sides of the film while it is being rotated.

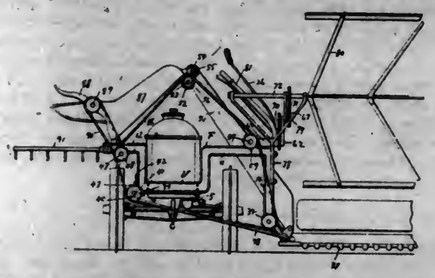
1,756,198. HOMOGENIZING MACHINE. GUY CLEMENT HUBBELL, London, England. Filed Oct. 9, 1925. Serial No. 61,395. 10 Claims. (Cl. 83—13.)



1. The combination with a homogenizing machine having a pair of working surfaces arranged closely adjacent to one another to form a narrow gap through which the material to be treated is forced by centrifugal force, means to produce a rapid relative rotation of said surfaces and thereby establishing the centrifugal force aforesaid and simultaneously setting up a suction effect in the material on its way to the narrow gap, of means including said centrifugally developed suction for automatically returning the material to said machine for retreatment after it has been discharged from said machine.

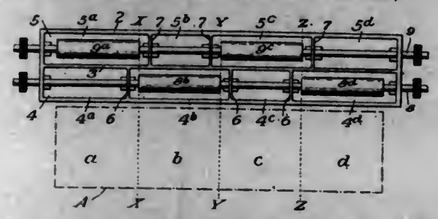
1,756,199. TRACTOR GRAIN BINDER. ANTON P. KAMROWSKI, Cochrane, Wis. Filed Feb. 9, 1928. Serial No. 253,058. 4 Claims. (Cl. 56—22.)

1. As a new article of manufacture, an attachment frame for supporting the parts of a binder on a tractor comprising a bar bent to provide a U-shaped portion one leg of which merges into a relatively long sidewardly extending arm merging into a depending arm, said depending arm merging into a rearwardly extending side arm, the



other leg of the U-shaped portion merging into a relatively short sidewardly extending arm which in turn merges into a rearwardly extending side bar.

1,756,200. COLOR FOUNTAIN FOR BLOCK PRINTING MACHINES. WALTER F. KAUFMAN, Lancaster, Pa., assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 16, 1928. Serial No. 299,969. 10 Claims. (Cl. 101—210.)



1. A color carriage having a plurality of longitudinally extending troughs, each of said troughs having transverse partitions therein.

1,756,201. LOUD-SPEAKER. JOHN E. KIERNAN, Brooklyn, N. Y. Filed Dec. 9, 1927. Serial No. 238,732. 2 Claims. (Cl. 179—108.)

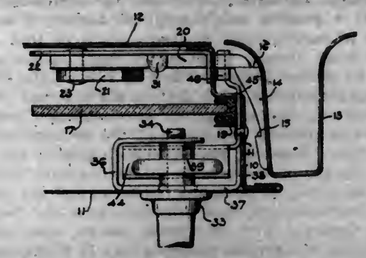


1. In a loud speaker, a diaphragm, a plurality of electromagnets arranged around said diaphragm, armatures for said electromagnets, and angular extensions at each end of said armatures for communicating vibrations to said diaphragm.

1,756,202. LATCH MECHANISM. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 16, 1926. Serial No. 95,033. 9 Claims. (Cl. 292—165.)

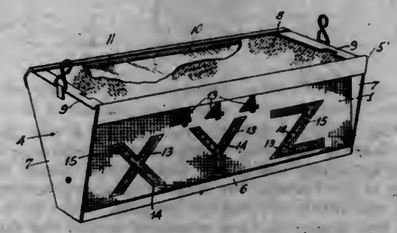
2. A latch mechanism for an automobile door having a sliding window of a width substantially equal to the full width of the body of the door with the side edge thereof

in close proximity to the jamb face of the door comprising inside and outside latch operating devices carried by the door on opposite sides of the projected path of movement of said sliding window and operable independently of each



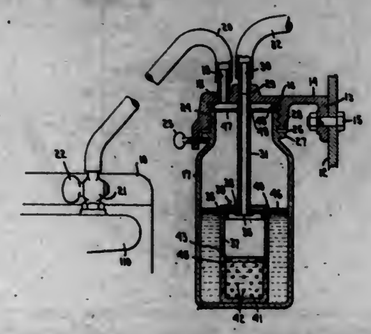
other, and an interlocking device extending across a vertical side of the door substantially opposite the operating devices in a horizontal plane and partaking of a movement of oscillation in the transverse vertical plane in its interlocking function.

1,756,203. SIGN, TABLET, OR THE LIKE FOR DAY AND NIGHT DISPLAY. GEORGE LINDSEY, Stoke Newington, London, England. Filed Aug. 31, 1928, Serial No. 303,339, and in Great Britain Oct. 6, 1927. 4 Claims. (Cl. 40—130.)



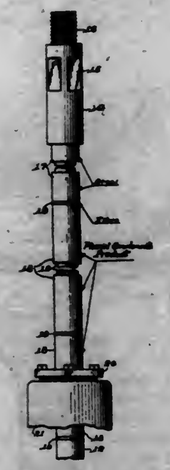
1. A sign comprising a sheet of light transmitting material having its front face roughened to scatter light rays passing through the sheet, portions of the front face being left smooth to define characters to be displayed when the sign is illuminated by light passing through the same, the rear face of said sheet having a reflecting medium applied thereto in back of the characters.

1,756,204. VACUUM-CLEANER APPARATUS. HERMAN C. LINN, Cleveland, Ohio, assignor to William F. Rawlings, Cleveland, Ohio. Filed Dec. 16, 1926. Serial No. 155,279. 4 Claims. (Cl. 261—122.)



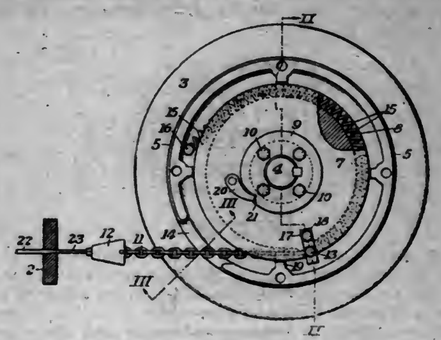
3. In apparatus of the character described, the combination of a chamber adapted to receive liquid therein and having a discharge port, a second chamber also adapted to receive liquid and mounted within said first-named chamber and having a closed bottom and a multiplicity of small openings in its lateral walls, an inlet conduit connected to said inner chamber, a float disposed in said first-named chamber and substantially closing the end of the space between said inner and outer chambers, and a second float mounted in said inner chamber and carrying a screen through which air from said inlet conduit must pass before contacting said liquid.

1,756,205. POLISHED ROD FOR OIL-WELL PUMPING. SUMNER B. MERRICK, Hanover, Mass., assignor to Merrick & Longbottom, Inc., a Corporation of Delaware. Filed Sept. 1, 1928. Serial No. 303,452. 14 Claims. (Cl. 255—28.)



1. A polished rod, comprising a core, a normally fixed radial extension upon each of the opposite ends of said core, a tube surrounding said core between said extensions, and one or more washers also surrounding said core between said extensions, said washers swelling when immersed in a liquid and creating a fluid-tight joint between said extensions and said tube.

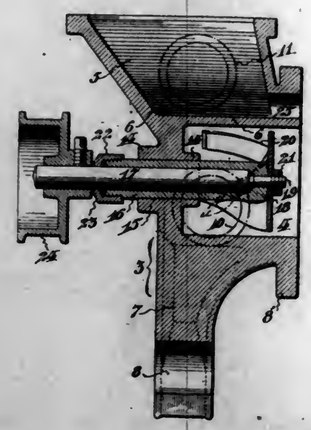
1,756,206. ROD OR WIRE DRAWING BLOCK. FRANK H. NULLMEYER, Struthers, Ohio. Filed Oct. 21, 1924. Serial No. 744,895. 9 Claims. (Cl. 205—20.)



7. Apparatus for drawing wire comprising a block, a chain having a wire gripping chuck, a retracting means for the chain within the block and to which the chain is attached, a block engaging portion on the retracting

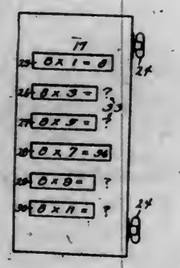
means, said retracting means being movable from a position where the chain is retracted to a position where the chain is fully extended, a spring for yieldably opposing the movement of the retracting means to the fully extended position, and for returning the retracting means to a position where the chain is retracted, means on the block adapted to engage the block engaging portion of the retracting means when the chain is fully extended, whereby motion is transmitted from the block to the retracting means, and a holding mechanism for retaining the retracting means between the said two positions.

1,756,207. CIRCULATING PUMP FOR POWER UNITS. JOSEPH S. OECHSLE, Philadelphia, Pa., assignor to Metalweld Service Corporation, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 20, 1925. Serial No. 44,738. 4 Claims. (Cl. 103—89.)



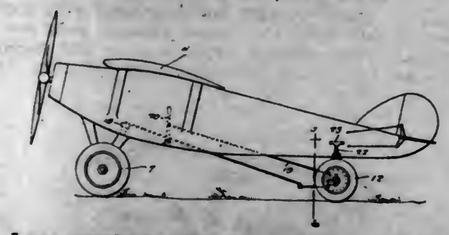
1. In a circulating pump, a casing having intake and outlet chambers, a pump impeller arranged for rotation within the intake chamber, means for completing the path of circulation of a fluid pumped by said impeller from said intake chamber to said outlet chamber, and means for permitting the thermo-siphonic passage of said fluid into said outlet chamber from a point exterior of said intake chamber.

1,756,208. TEACHING DEVICE. MATTIE PEELEN, Sanborn, Iowa. Filed Mar. 12, 1928. Serial No. 261,074. 3 Claims. (Cl. 35—2.)



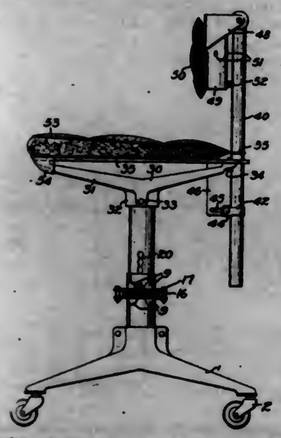
1. In a teaching device, a casing including a screen, a ribbon movable under said screen, problems with answers displayed on said ribbon, each problem and answer extending transversely of the ribbon's direction of movement, and the problems being arranged in equally spaced succession, the screen being provided with a sight opening constructed so as to reveal a problem and its answer simultaneously, and with another opening constructed so as to reveal a problem and conceal its answer, a web of material of substantially the same width as that of an opening being formed between the sight openings and adapted to conceal a problem and its answer, the spacing of the openings being twice that of the problems, whereby alternate problems may be simultaneously centered under the respective openings, and the problem between said alternate problems may be simultaneously concealed beneath the web, whereby as the ribbon is gradually moved in one direction, a particular problem and its answer may be first displayed, then fully concealed, and then the problem displayed with its answer hidden, and whereby first one pair of alternate problems may be displayed, and then a succeeding pair of alternate problems may be displayed while the pair just displayed is concealed.

1,756,209. LANDING GEAR FOR AEROPLANES. HENRY H. PHILLIPS, Judith Gap, Mont. Filed Aug. 9, 1928. Serial No. 298,510. 1 Claim. (Cl. 244—2.)



In an aeroplane including a fuselage, a rear landing gear therefor including a transversely extending semi-elliptical spring, means for securing the center of the spring to the fuselage, the ends of the spring terminating below and within the plane of the sides of the fuselage, a dead axle having its ends extending beyond the sides of the fuselage, means for securing the ends of the spring to the dead axle, and dirigible wheels carried by the ends of the axle and disposed beyond the sides of the fuselage.

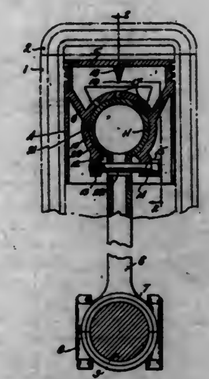
1,756,210. CHAIR. ERNEST RACE, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 23, 1928. Serial No. 248,595. 6 Claims. (Cl. 155—95.)



6. A portable chair of the office type having a relatively broad base that may be readily moved about a floor,

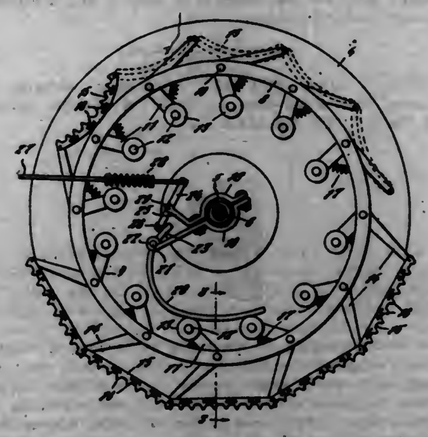
a seat, a telepscoping tubular connection between the base and seat, one portion of said tubular connection being swiveled relative to the other, and a ball-bearing between said tubular portions having an annular ball race of substantial diameter to provide a bearing at a substantial distance from the axis of the tubular support.

1,756,211. PISTON AND CONNECTING ROD. ALLAN E. REID, Boston, Mass., assignor to Reid Piston Company, Brookline, Mass., a Corporation of Massachusetts. Filed Dec. 19, 1928. Serial No. 327,006. 18 Claims. (Cl. 74—108.)



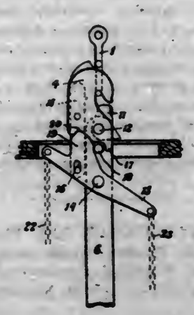
1. The combination of a piston with a connecting rod, the piston comprising an integral bearing element spaced from the inner surface of the piston head, said element having a journal opening, and the connecting rod having a pivot member permanently united to it, said connecting rod being capable of assembly with the piston by movement of the pivot member axially into the journal opening in the bearing element.

1,756,212. SAFETY ATTACHMENT FOR VEHICLE WHEELS. BOYD REYNOLDS, McKeesport, Pa. Filed July 10, 1928. Serial No. 291,590. 2 Claims. (Cl. 301—48.)



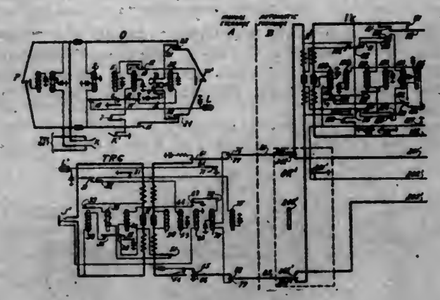
1. A safety attachment for a vehicle wheel comprising a plurality of ground engaging elements mounted on the wheel, means for normally holding the elements out of ground engaging position, a bracket fixed to the axle of the wheel having spaced angular extensions, a pivoted lever carried by one extension, a pivotally mounted shoe carried by the other extension, said lever having one end overlapping the adjacent end of the said shoe whereby pivotal movement of the lever will cause the outer end of the shoe to be moved into engagement with underlying ground engaging elements for placing the latter in ground engaging positions, an operating rod connected to said lever, and a shock absorber associated with said rod.

1,756,213. RELEASING GEAR FOR USE WITH LOWERING APPARATUS. LESLIE HAMPTON ROBINSON, Chiswick, London, England. Filed Apr. 18, 1929, Serial No. 356,245, and in Great Britain Apr. 19, 1928. 14 Claims. (Cl. 9—23.)



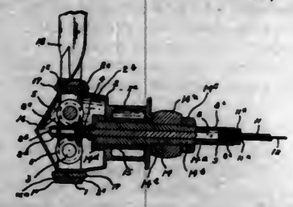
7. Lowering and releasing gear for ships' boats including a pair of supports fore and aft the boat, a hook pivotally mounted on each support and control mechanism within the boat for effecting release of said hooks, each hook comprising a shank, a mouth at the upper end of said shank and a tail projection adapted to abut with said support to prevent the transmission of strain to said control mechanism on the load being applied at an inclination.

1,756,214. TELEPHONE TRUNKING SYSTEM. NORMAN H. SAUNDERS, Homewood, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Apr. 28, 1928. Serial No. 278,512. 25 Claims. (Cl. 179—27.)



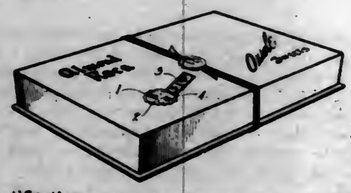
1. In a telephone system, a trunk line extending from a first to a second exchange, a second trunk line extending from the second exchange to a third exchange, an automatic switch at the second exchange terminating said first trunk line, means for operating said switch to connect with said second trunk line to extend a call from the first exchange to the third exchange, a battery at said second exchange connected to both said trunk lines, and means responsive to the answering of the call for disconnecting said battery from both of said trunk lines.

1,756,215. FAN. WILLIAM H. SCHNEIDER, Milwaukee, Wis. Filed Oct. 17, 1921, Serial No. 508,276. Renewed Mar. 25, 1929. 2 Claims. (Cl. 170—163.)



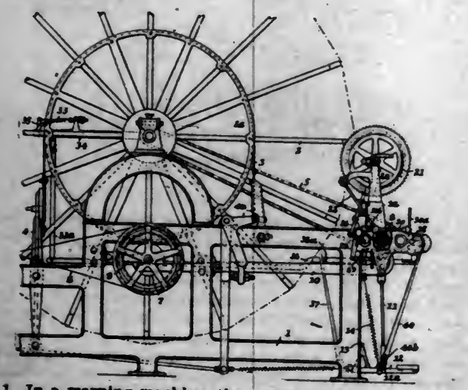
1. In combination, a rotary fan comprising a body portion, having pivotally mounted radial blades; an automatic controlling member remotely positioned with respect to said fan, and including a casing; a flexible, non-extensible member projecting therefrom; means within said casing for causing said non-extensible member to move axially; a sheath surrounding said non-extensible member, and means for operatively connecting said non-extensible member and said blades to transmit controlling motions of said non-extensible member to said blades, to thereby automatically vary the angular setting of said blades.

1,756,216. IDENTIFICATION AND PRICE TAG. WILLIAM H. SEELEY, Tacoma, Wash., assignor to Brown & Haley, Tacoma, Wash., a Corporation of Washington. Filed June 25, 1927. Serial No. 201,494. 1 Claim. (Cl. 40—2.)



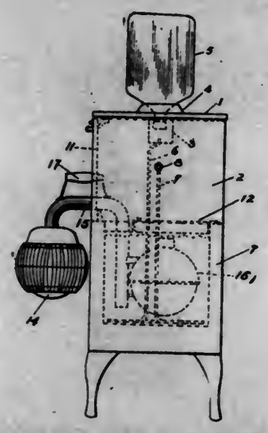
An identification and price bearing tag for merchandise, said tag comprising an ornamental identification portion provided on its under side with an adhesive whereby it may be permanently attached to an article without impairing its ornamental appearance, and a price bearing portion disconnectably attached to said identification portion and adapted when removed therefrom to leave the ornamental portion in a symmetrical form.

1,756,217. WARPING MACHINE. GRANT SIPP, Paterson, N. J., assignor to Sipp Eastwood Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 28, 1928. Serial No. 322,439. 12 Claims. (Cl. 28—30.)



1. In a warping machine, the combination of the frame, driven means including a revoluble reel on which to wind the warp, a rotated driver for said means, and a collapsible shifter system movable by the operator to shift the driver into driving relation to said means, said system in one of its collapsed and extended states holding said member further from said means than when in the other state.

1,756,218. WATER COOLER. RUSSELL T. SMITH, Cincinnati, Ohio, assignor to The Crosley Radio Corporation, Cincinnati, Ohio, a Corporation of Ohio. Filed May 31, 1929. Serial No. 367,320. 3 Claims. (Cl. 62—143.)



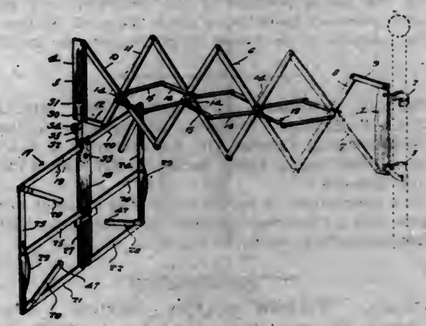
1. In a device of the character described, a cabinet having in its lower portion a refrigerating compartment suitably insulated, with a movable cover, a movable closure for that portion of one of the sides of the cabinet above said compartment, said closure having clearance for the connecting element between the portions of a portable refrigerating unit, the evaporator of which is inserted into the cabinet, the space above the compartment as disclosed by said side closure being sufficient to permit of insertion of said evaporator, and tubular connection from an elevated source of supply of water passing down through the compartment and thence upwardly to a convenient point for use, where it is coupled with a tap that extends from the cabinet.

1,756,219. GOLF PUTTER. WILLIAM C. SPIKER, Atlanta, Ga. Filed May 31, 1928. Serial No. 281,834. 1 Claim. (Cl. 273—77.)



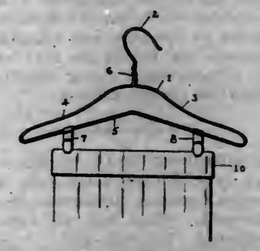
A head for a golf club having a top surface of substantially rectangular outline and a ball striking face disposed at a right angle thereto, a longitudinal groove formed medially in said top surface and extending the entire length thereof, said groove providing similar fields to either side and said fields being oppositely bevelled, the bottom surface of the groove and said bevelled surfaces having their side edges all lying in parallel relation and adapted to have contrasting colors whereby one field of the top surface will be visible at whatever angle the light rays strike said top surface, for the purpose set forth.

1,756,220. COLLAPSIBLE BOOK HOLDER. LEROY EDMUND STACKPOLE, Sanford, Me. Filed Dec. 28, 1927. Serial No. 243,077. 1 Claim. (Cl. 248—1.)



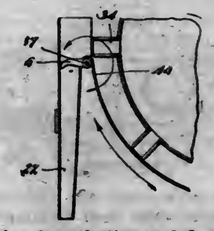
In structure of the class described, a bracket for attachment to a support, an additional bracket, a vertically arranged lazy tong structure including a series of vertically disposed intersecting cross arms pivotally secured together at their points of intersection, the outermost arms being pivotally connected to the adjacent brackets, a horizontally arranged lazy tong structure for bracing the vertically arranged lazy tong structure, said horizontally disposed lazy tong structure including a plurality of angular lugs secured on the opposite sides of the points of intersection of the cross arms of the vertically disposed lazy tong structure, pivotally connected arms secured at their outer ends to their respective lugs on the respective sides of the vertically disposed lazy tong structure, both of said lazy tong structures being adapted for simultaneous operation.

1,756,221. GARMENT HANGER AND STRETCHER. HARRY E. STALEY, Rochester, N. Y. Filed Oct. 15, 1928. Serial No. 312,452. 1 Claim. (Cl. 223—62.)



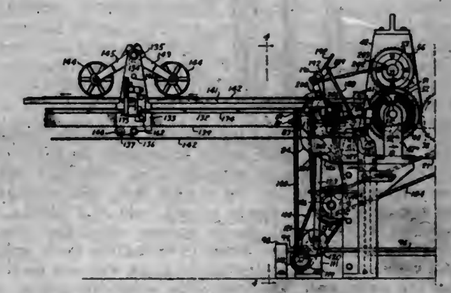
A garment hanger formed of a single piece of wire, the upper portion of which is shaped to support a coat, the lower portion having two inclined members therein sloping down and out from the center, a spring clamp mounted to slide on each inclined member, the clamps being adapted to hold and hang up trousers by the bottom, the clamps and inclined members being so related that the weight of the trousers hanging from the clamps will tend to make the clamps slide down and out on the inclined members and separate the clamps from each other and draw the garment between the clamps out tight and straight, the hanger as a whole being adapted to be sprung in at the ends to facilitate the sliding of the clamps down and out, the ends of the hanger when released being adapted to spring out and help stretch the garment supported between the clamps.

1,756,222. CHERRY DROPPER. WESLEY S. SWETT, Newtonville, Mass., assignor to United Candy Company, Boston, Mass., a Corporation of New York. Filed June 25, 1925. Serial No. 39,508. 5 Claims. (Cl. 107—1.)



1. In a machine for selecting and depositing candy inserts or the like, a rotatable drum adapted to contain a mass of candy inserts, means on said drum for receiving individual inserts from the mass in said drum, a fixed guard cooperative with said receiving means for retaining the individual inserts in said means, a plurality of delivery conduits, and a plurality of picker fingers arranged to operate near the termination of said guard to select the inserts and transfer the same to said delivery conduits.

1,756,228. CUTTING MECHANISM. GEORGE W. SWIFT, Jr., Bordentown, N. J., assignor to George W. Swift, jr., Inc., Bordentown, N. J., a Corporation of New Jersey. Filed Aug. 21, 1928. Serial No. 301,041. 24 Claims. (Cl. 164—68.)



1. In a machine for severing successive portions from a continuous web, the combination with web-cutting mechanism, of means actuable by the web from the same normal position of rest for all speeds of said web for controlling the operation of the cutting mechanism, operating connections for driving said web-cutting mechanism, said operating connections including variable speed transmission mechanism, and means variable with the variable speed mechanism for starting and stopping said web-cutting mechanism from and at a fixed position of rest.

1,756,224. SAFETY RAZOR. ARISTEDS A. THEODOROPULOS, New York, N. Y. Filed Nov. 26, 1927. Serial No. 235,782. 3 Claims. (Cl. 30—12.)



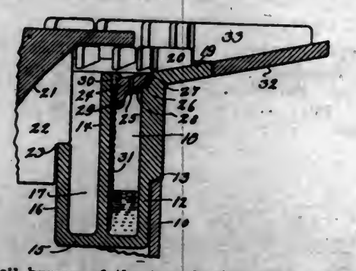
1. In a safety razor, a safety member with wide openings, for clamping a razor blade against a top member, an auxiliary safety member slidably mounted on the said safety member, and a set screw threadedly passed thru the auxiliary safety member and abutting the said saftely member so that the operative size of the wide openings of the safety member may be adjusted.

1,756,225. UNION CHECK VALVE. SOREN THURSTENSEN, Louisville, Ky., assignor to Henry Vogt Machine Co., Louisville, Ky. Filed Jan. 2, 1926. Serial No. 78,963. 7 Claims. (Cl. 251—121.)



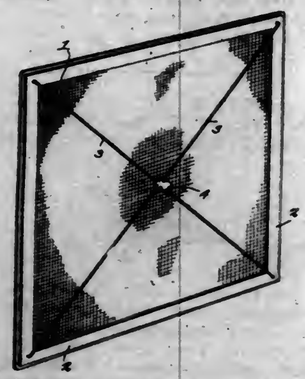
5. In a check valve comprising a tubular body having identical detachable valve seats at each end thereof, a ball valve slidable in said body between the seats thereof and adapted to close either seat, a flat grid centrally secured in said body to prevent closing contact between said valve and one of said seats, and means carried by said grid to guide the valve toward and from its seat.

1,756,226. OIL BURNER. GEORGE E. TILLER, Sioux City, Iowa. Filed Oct. 22, 1928. Serial No. 314,267. 6 Claims. (Cl. 158—67.)



1. An oil burner of the type having concentric, spaced walls, connected at their lower extremities to form an annular well, a feed pipe communicating with said well, a burner ring closing the top of said well, and provided with openings for the escape of gas, said ring having a substantially horizontal flange resting upon the outer wall and a vertical, inner flange receiving the inner wall, and a cylindrical wick encircling the inner wall and spaced from the outer wall, extending from near the bottom of the well, and received between the vertical flange of the burner ring and the inner wall.

1,756,227. SCREEN FOR AUTOMOBILE WINDOWS AND THE LIKE. JOHN TORRENT, Muskegon, Mich. Filed Aug. 29, 1929. Serial No. 389,225. 1 Claim. (Cl. 156—14.)

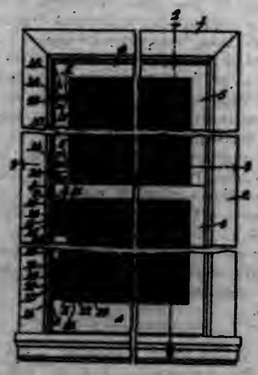


A screen including a resilient frame, a screen fabric connected to and surrounded by the frame, diagonally disposed resilient members secured at their ends to the respective corner portions of the frame and crossed adjacent to the center of the screen, said members being joined at their point of crossing, and a handle extending from the joined portions of the members, each of the crossed members including a single piece of resilient material adapted to be bowed by pulling on the handle.

1,756,228. SOLVENT FOR CELLULOSE NITRATE. JOHN P. TRICKEY, Evanston, Ill., assignor to Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 3, 1928. Serial No. 297,370. 9 Claims. (Cl. 134—79.)

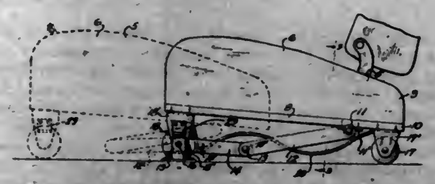
9. A composition of matter comprising cellulose nitrate, a gum, and a plasticiser dissolved in a solvent comprising tetrahydrofurfuryl acetate.

1,756,229. WINDOW-SCREEN DEVICE. WILLIAM TURNER, Portland, Oreg. Filed Feb. 19, 1929. Serial No. 341,116. 3 Claims. (Cl. 156—14.)



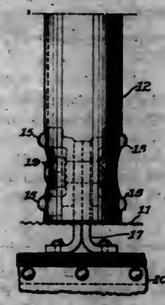
2. In a device of the class described, a window screen adapted for mounting in the guide of a window frame, a tubular member in the screen, a shoe adjustable in the screen and slidable in the guide, a stem carrying the shoe and slidable in the tubular member, a cam lever pivotally mounted on the stem and engaging the tubular member to advance and retract the shoe with respect to the guide, and a compression spring abutting against the shoe and against the tubular member.

1,756,230. AUTOMOBILE SEAT. HERMAN L. VAN VALKENBURG and SWIFT MILLER, Wauwatosa, Wis., assignors to The Paralock Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 19, 1926. Serial No. 123,559. 4 Claims. (Cl. 155—14.)



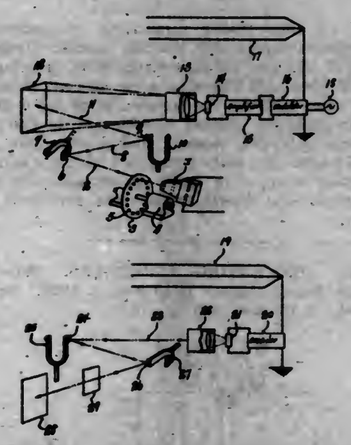
4. A longitudinally movable vehicle seat, comprising a body portion mounted to move horizontally, a link mechanism pivotally connected to the body portion adjacent one end and to a support adjacent the other end and permitting the seat to move horizontally independently of other movements, and means for preventing any vertical movement of the seat except from a normal position.

1,756,231. AIRPLANE. GEORGE E. ARMINGTON, Wickliffe, and ROBERT G. NIGHTINGALE, Cleveland, Ohio, assignors to The Glenn L. Martin Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 5, 1927. Serial No. 231,246. 3 Claims. (Cl. 244—31.)



1. In combination, a hollow strut having opposed openings in the walls thereof, brackets secured to the inner sides of said walls having sockets opposite said openings, a fitting extending into said strut endwise to a position between said brackets, and a bolt extending through said brackets and fitting with the head and nut thereof enclosed by said sockets.

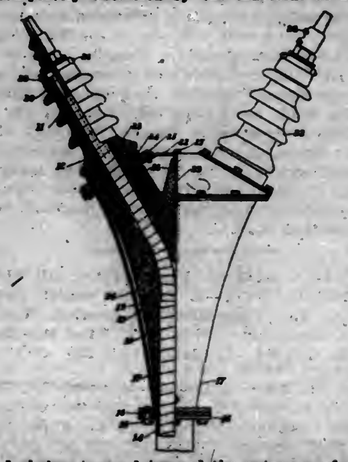
1,756,232. TELEVISION APPARATUS. JOSEPH JOHN ARNAUD, South Milwaukee, Wis. Filed Feb. 17, 1928. Serial No. 255,042. 6 Claims. (Cl. 178—6.)



1. The method of preparing an equalising screen for a searching ray, which traverses a projection screen according to a rule that obliges it to remain longer directed to some portions of the screen than to others, or traces lines more congested in some portions of the projection screen than in others; said method consisting in: causing this ray to traverse a photographic plate according to said rule; and then developing said plate.

1,756,233. OUTLET FOR MULTIPLE-CONDUCTOR CABLES. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 16, 1927. Serial No. 175,656. 17 Claims. (Cl. 247—6.)

1. The combination with a multiple conductor cable having an outer metallic sheath, of a body of solid dielectric material having a main passage therein for receiving said cable and having branch passages for the individual conductors of said cable, said main and branch passages being completely encircled by the material of said body,



said body being tapered toward the entrapce of said cable to said main passage and a metal housing tapered to conform to the surface of said body of dielectric material and disposed adjacent thereto and connected to said sheath.

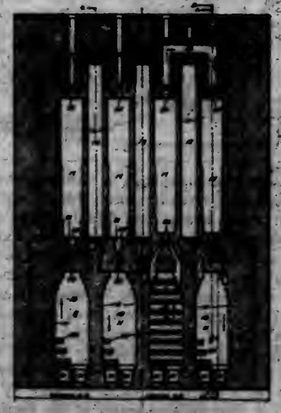
1,756,234. PITCH-COKING PROCESS AND PRODUCT. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 16, 1919, Serial No. 330,988. Renewed Mar. 21, 1924. 17 Claims. (Cl. 202—5.)

3. A process which comprises coking a mixture containing pitch and a sufficient proportion of bauxite to prevent substantial foaming of the mixture during coking thereof.

8. A mixture containing pitch and a sufficient proportion of bauxite to prevent substantial foaming of the mixture during coking thereof.

10. Coke made by coking a mixture of pitch and bauxite and substantially ash-free as regards residues other than bauxite.

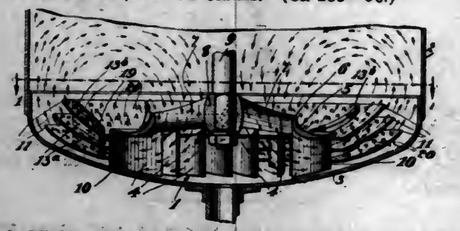
1,756,235. COKING RETORT OVEN. JOSEPH BECKER, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 23, 1928. Serial No. 620,582. 9 Claims. (Cl. 202—143.)



1. In a coke oven battery, in combination: a series of alternate parallel horizontally elongated coking chambers

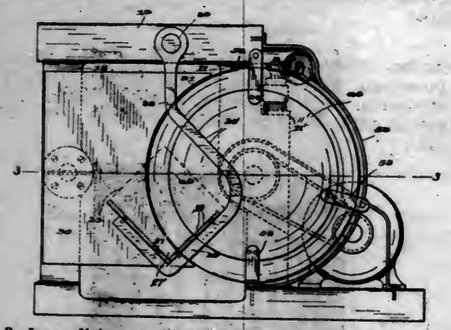
and heating walls, said heating walls respectively comprising vertical combustion flues; a plurality of horizontal flues in each half of each heating wall and respectively connecting a plurality of the combustion flues of their respective heating walls; each of the horizontal flues being also communicably connected with one of the horizontal flues of an adjacent heating wall; a plurality of pairs of end to end individually regulable and reversible cross-wise extending regenerators adjacent the coking chambers and the heating walls, there being only a pair of the end-to-end positioned regenerators directly connected with the combustion flues of a single heating wall, whereby the alternate regenerators of the battery may be operated for flow in one direction while the intermediate regenerators are operated for flow in the opposite direction; substantially as specified.

1,756,236. MIXING, DISSOLVING, OR SIMILAR APPARATUS. HENRY S. BEERS, Westport, Conn., assignor to The Turbo-Mixer Corporation, New York, N. Y., a Corporation of New York. Filed May 29, 1929. Serial No. 366,794. 21 Claims. (Cl. 259—96.)



1. Mixing, dissolving or reducing apparatus, comprising means for producing mix-circulation, and adjacent such means, a plurality of spaced plates substantially parallel to the planes of adjacent mix-flow and provided with toothed surfaces, whereby the mix is forced through the plate spaces and refractory components are reduced by tooth action.

1,756,237. SLICING MACHINE. EWALD BREDOW, Albany, N. Y., assignor of one-half to A. W. Meyer, Albany, N. Y. Filed Aug. 19, 1927, Serial No. 214,050. Renewed July 1, 1929. 3 Claims. (Cl. 146—102.)



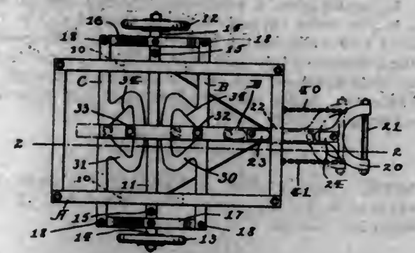
3. In a slicing mechine and in combination, a frame, a vertically disposed circular knife rotatively mounted on a horizontal axis, means for rotating said knife, and a pendent rack manually oscillatable on an axis parallel to the axis of said knife at one side of said knife, said rack having a substantially V-shaped seat for material to be sliced, said seat being open at its end adjacent the knife and adapted to support the material exposed for engagement by the hand of an operator, the supporting faces of said seat extending at substantially a right angle toward the vertical plane of said knife, whereby material on said seat may be fed toward the knife entirely by the pressure of the operator, and independently of the action of gravity, with the inclined faces of the seat serving to guide the material.

1,756,238. HOSPITAL EQUIPMENT. LAURA A. CHAMBERS, St. Louis, Mo. Filed Apr. 9, 1928. Serial No. 268,507. 4 Claims. (Cl. 4—113.)



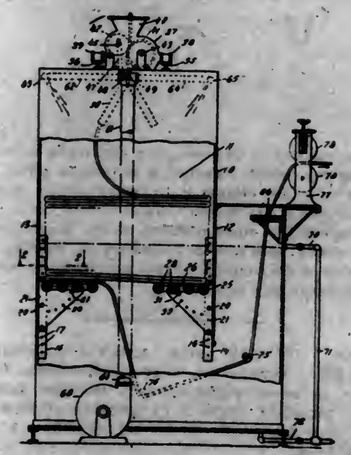
2. In a device of the character described, a pan of rigid material, there being a depression formed in said pan comprising a central portion of substantial area and a converging trough leading therefrom, a portion of said trough having a rigid cover, and an inflatable ring overlying the edge of said pan and overlying the covered portion of said trough.

1,756,239. TRAILER. PAUL B. CHOJNACKI and EDWARD P. CHOJNACKI, Los Angeles, Calif. Filed Feb. 12, 1929. Serial No. 339,306. 4 Claims. (Cl. 280—33.55.)



3. A two wheel trailer, comprising, in combination, a body frame having an axle, steering knuckles pivoted upon the ends of said axle having steering arms, carrying wheels journaled upon said knuckles, a tie element securing the steering arms whereby the steering arms are operated in unison to guide the steering wheels, said tie element having a cam operating element, and a draw bar slidably fulcrumed upon said body frame and having a cam engaging element adapted to assist in transmitting steering movement to said wheels through the movement of said draw bar.

1,756,240. PROCESSING APPARATUS. WILLIAM L. CONRAD, Boston, Mass. Filed Aug. 2, 1928. Serial No. 296,945. 9 Claims. (Cl. 8—19.)



2. Apparatus of the character described comprising a receptacle, means for feeding material into said receptacle,

and means for supporting the material in the receptacle, means for withdrawing the material from the bottom layer in the receptacle, said supporting means being angularly adjustable and vertically adjustable.

1,756,241. CLIP FOR WRITING TOOLS. CHARLES F. DOEBLER, New York, N. Y., assignor to Benjamin Frank, New York, N. Y. Filed Sept. 22, 1922. Serial No. 589,754. 16 Claims. (Cl. 24—11.)



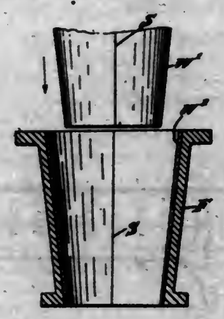
16. A clip comprising two superimposed flat loops adapted to be fitted unto a tubular body, a tongue for each loop integral therewith projecting therefrom tangentially to the plane thereof and bent downwardly with respect thereto, and a corrugation in one of said tongues substantially the entire length thereof, the other tongue being disposed within said corrugation.

1,756,242. WRITING TOOL. CHARLES F. DOEBLER, New York, N. Y., assignor to Benjamin Frank, New York, N. Y. Filed Sept. 26, 1922. Serial No. 590,598. 12 Claims. (Cl. 120—9.)



1. A pencil comprising in combination, a substantially tubular body portion, a tip at one end thereof, a cap at the opposite end, and a hollow outer casing comprising a plurality of separate removable tubular sections surrounding said body portion, said sections forming a cylinder tapering towards said tip and having annular depression near its junction therewith to facilitate the handling of said pencil during operation.

1,756,243. METHOD OF MAKING MULTIPLE WALL CONTAINERS. WILLIAM E. BENSON, Wollaston, Mass., assignor of one-half to Theodore M. Prudden, Hingham, Mass. Filed Sept. 15, 1927. Serial No. 219,627. 3 Claims. (Cl. 93—36.)



1. The method of forming a side wall of a multiple wall container consisting in inserting an outer side wall into a form, and in inserting a second side wall within said first laid wall with an interposed layer of adhesive, said second wall having its vertical edges in abutment and disposed out of alignment with those of the first laid wall.

1,756,244. APPARATUS FOR ANNEALING GLASSWARE. GEORGE E. HOWARD, Butler, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Jan. 20, 1926. Serial No. 82,421. 18 Claims. (Cl. 49—47.)



5. An apparatus for annealing glassware, which comprises a tunnel having a wall exposed to the influence of the outer atmosphere, means for directing heating and cooling media against the outer surface of said wall at selected intervals longitudinally thereof to control the temperature in said tunnel.

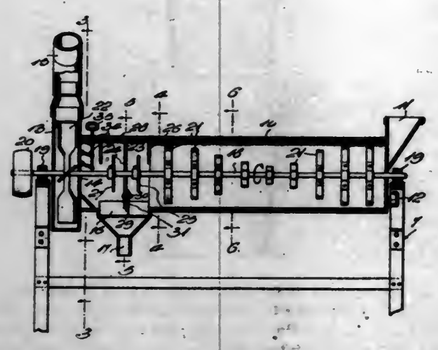
8. An apparatus for annealing glassware, comprising a tunnel having a metallic wall exposed to the influence of the outer atmosphere, means for projecting unconfined streams of a heating medium against said wall in regulable quantities at intervals longitudinally thereof to control the temperature in said tunnel.

1,756,245. DENTAL CROWN REMOVER. OSCAR A. FLAGSTAD, Minneapolis, and RUEBEN G. LEE, Hoffman, Minn. Filed Oct. 10, 1927. Serial No. 225,298. 8 Claims. (Cl. 32—10.)



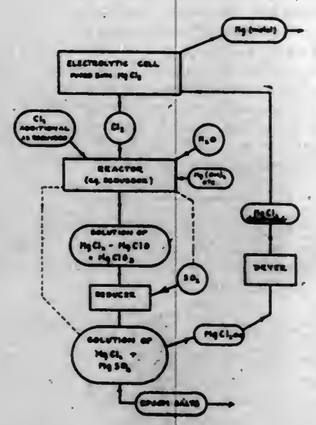
1. A dental crown remover comprising a pair of jaws adapted to grip the sides of the crown, a link pivotally connecting the jaws, a tooth engaging screw threaded in and operating through the link between the jaws, and yieldable means associated with said screw for effecting a clamping action to the jaws.

1,756,246. GRAIN-CLEANING PROCESS AND MACHINE. THOMAS E. FORSTER, Wichita, Kans., assignor, by direct and mesne assignments, to The Forster Manufacturing Company, Wichita, Kans., a Corporation of Kansas. Filed Dec. 22, 1927. Serial No. 241,899. 10 Claims. (Cl. 83—30.)



1. A process of cleaning smut and the like from grain comprising the steps of producing a high-velocity air current in a cylinder having a smooth imperforate inner surface and violently whirling said current circumferentially of the cylinder, feeding grain into said cylinder, and relatively controlling the air current and the grain feeding to cause all of the individual grains to be violently whirled and carried in suspension by said current.

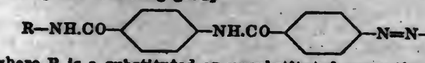
1,756,247. MAKING MAGNESIUM CHLORIDE FROM CHLORINE AND A MAGNESIUM BASE. THOMAS GRISWOLD, Jr., and RALPH M. HUNTER, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 2, 1928. Serial No. 289,673. 10 Claims. (Cl. 204—19.)



1. In a method of making magnesium chloride, the steps which consist in reacting chlorine and sulphur dioxide upon a suitable magnesium base in the presence of water to form chiefly magnesium chloride and magnesium sulphate, separating the magnesium chloride so formed, and electrolyzing the said chloride to produce magnesium metal and the chlorine to react with the magnesium base whereby the said chlorine is cycled in the process.

1,756,248. AZO DYE AND PROCESS OF MAKING THE SAME. HENRY JORDAN, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 3, 1927. Serial No. 165,759. 17 Claims. (Cl. 260—87.)

1. A dye having affinity for vegetable fibre and containing the following group



where R is a substituted or unsubstituted aromatic radial without a hydroxyl group attached to the nucleus.

1,756,249. NONSPILLABLE CONTAINER. SOLOMON KAUFMAN, New York, N. Y. Filed Mar. 21, 1927. Serial No. 177,177. 19 Claims. (Cl. 215—37.)



1. A non-spillable container having an open end, an automatic closure normally closing the open end including a movable member adapted to be actuated and held in open position for the discharge of the contents of the container therefrom or to allow for the placing of contents within the same, and means for causing said movable member to automatically return to closed position when the container is tilted and the member is released, said member thereafter remaining in closed position regardless of the position of the container.

1,756,250. JUICE EXTRACTOR. FRANK H. KREUTER, Philadelphia, Pa. Filed Apr. 25, 1928. Serial No. 272,816. 1 Claim. (Cl. 100—41.)



In a device of the class described, a plurality of side members connected along one edge by a fold, approximately parallel series of oppositely projecting elements carried by the side members and constituting pressure devices, and shoulders formed between the projecting elements and those edge portions of the side members remote from the fold, the shoulders being reversely positioned, alined transversely, and each positioned to directly engage the edge portion of an article of fruit placed between the side members.

1,756,251. PHTHALIC-UREA RESIN AND PROCESS OF MAKING SAME. BORIS N. LOUGOVOY, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Jan. 28, 1924. Serial No. 689,187. 34 Claims. (Cl. 260—2.)

1. A resinous material comprising the reaction products of urea, phthalic anhydride and formaldehyde.

12. A solution of the sirupy reaction product of urea, an organic acid, and formaldehyde, in an organic solvent.

18. A resinous material comprising the reaction products of a dibasic carboxylic acid, an aldehyde, and a carbamid compound corresponding to the formula NR_2CXNR_2 in which X is an atom of the oxygen-sulphur group, which compound is capable of forming an amorphous condensation product with the aldehyde.

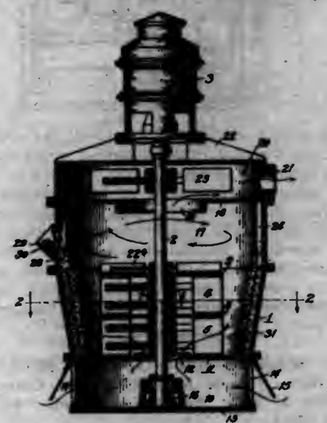
1,756,252. SYNTHETIC PRODUCT AND PROCESS OF MAKING SAME. BORIS N. LOUGOVOY, Montclair, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a Corporation of New Jersey. Filed Apr. 21, 1924. Serial No. 708,017. 28 Claims. (Cl. 260—3.)

1. A white solid comprising the reaction product of a phenolic body on dimethylol urea.

5. A molding composition containing the crushed and dried reaction product of a phenolic body on a methylolurea containing a filler, the opacity of the final product made therefrom being determined by the amount of filler therein.

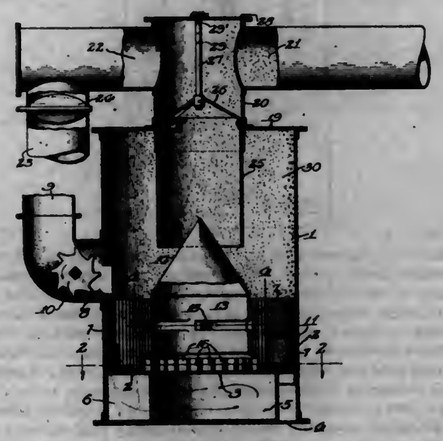
13. A molding composition containing the crushed and dried reaction product of a phenolic body on an acid-containing reaction product of an aldehyde and a carbamid derivative.

1,756,253. DEVICE FOR REDUCING MATERIALS. HENRY G. LYKKEN, Minneapolis, Minn. Filed Dec. 9, 1925. Serial No. 74,223. 29 Claims. (Cl. 83—46.)



1. A reducing device, comprising a chamber, a rotor therein, means for feeding air into the lower part of the rotor, means for feeding the material to be reduced into the chamber for reducing action thereon by the air acted upon by said rotor, and means for conveying the reduced material and air from above said rotor.

1,756,254. FLUIDIZER AND METHOD OF FLUIDIZING. HENRY G. LYKKEN, Minneapolis, Minn. Filed Jan. 11, 1928. Serial No. 245,971. 24 Claims. (Cl. 83—46.)



1. A device for fluidising materials, comprising a chamber for containing material to be reduced, and means within the chamber for causing vorticose action of a fluid and forcing said fluid against said material for reducing the latter, said means directing the fluid tangentially to the inner surface of the vortex.

1,756,255. COMBUSTIBLE. STERNER ST. P. MEEK, U. S. Army, Philadelphia, Pa. Filed Sept. 8, 1925 Serial No 55,120. 7 Claims. (Cl. 52—24.) (Granted under the act of Mar. 8, 1883, as amended Apr. 30, 1928. 370 O. G., 757.)

1. A combustible composition including an oxygen carrier, a reducing agent, a binder and a non-fulminating salt of mercury.

1,756,256. EYELET. FRANKLIN G. NEUBERTH, Ansonia, Conn., assignor to The S. O. and C. Company, Ansonia, Conn., a Corporation of Connecticut. Filed Oct. 5, 1923, Serial No. 666,862, and in Germany Sept. 13, 1923. Renewed Apr. 9, 1927. 15 Claims. (Cl. 24—141.)



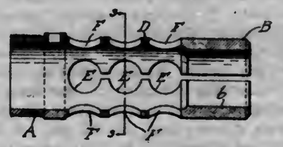
1. An eyelet for invisible eyeleting having the entering end of its barrel shaped to provide a plurality of pushing portions formed to engage the stock at points removed from the lacing hole to facilitate pushing the stock, alternating with a plurality of portions formed to engage the edge of the lacing hole to facilitate the passage of the end of the eyelet barrel through one or more of the layers of the stock.

1,756,257. METHOD OF MANUFACTURING FASTENERS. FRANKLIN G. NEUBERTH, Ansonia, Conn., assignor to The S. O. and C. Company, Ansonia, Conn., a Corporation of Connecticut. Original application filed Oct. 5, 1923, Serial No. 666,862, and in Germany Sept. 13, 1923. Divided and this application filed Dec. 30, 1925, Serial No. 78,414. Renewed July 24, 1929. 4 Claims. (Cl. 113—51.)



1. That improvement in methods of manufacturing eyelets which comprises scoring and scalloping an eyelet barrel and thereafter upsetting the open entering end of the barrel to provide a blunted work-engaging end.

1,756,258. FEED FINGER FOR MACHINE TOOLS. JAMES R. O'CONNELL, Elmira, N. Y., assignor to Morrison Machine Products, Inc., Elmira, N. Y. Filed Apr. 13, 1927. Serial No. 183,811. 10 Claims. (Cl. 29—62.)

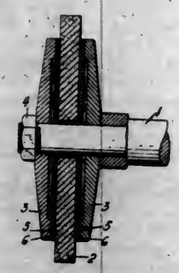


1. A work advancing feed finger for a machine tool having a hardened work gripping end, a spring portion

adjacent thereto and located at a distance from said end and a slot extending lengthwise of the feed finger from the work gripping end through the spring portion thereof, said slot having a plurality of enlargements in said spring portion of the feed finger, which reduce the cross sectional area of the spring finger at the enlargements in said slot.

10. A work advancing feed finger for machine tools including a substantially tubular body portion divided lengthwise into a plurality of spring jaws each of which includes a spring portion terminating in a work gripping end, the spring portion of said spring jaw being provided with rounded recesses in the side edges thereof, said recesses being largest at the portions of the spring jaws adjacent to the work gripping ends thereof and being of gradually reduced size toward the other ends of said spring jaws, to provide portions of said jaws of varying reduced cross sectional area, said variation in cross sectional area serving to distribute deflections of the material in said spring jaws substantially equally throughout the portions thereof of reduced cross sectional area, and a series of holes in said jaws of graduated size, the largest holes being nearest to the work gripping end of said spring jaw to effect further graduated reduction at intervals in cross sectional area of said spring jaws.

1,756,259. MOUNTING FOR ABRASIVE WHEELS OR THE LIKE. GEORGE W. PERKS, Akron, Ohio, assignor to The George W. Perks Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 22, 1926. Serial No. 149,828. 6 Claims. (Cl. 51—168.)



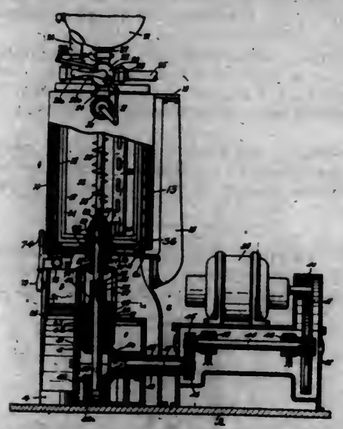
1. A mounting for abrasive wheels having surfaces with minute elevations and depressions, comprising plates at the sides of the wheel, wire mesh between the plates and the wheels, and means to force the mesh against the sides of the wheel sufficiently to cause the wire mesh to embed within the depressions on the wheel.

1,756,260. ARTIFICIAL MINNOW. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed June 24, 1925. Serial No. 39,241. 1 Claim. (Cl. 43—47.)



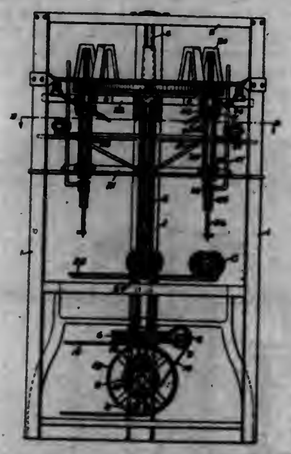
A fish lure comprising a body open at both ends, a leader at the forward end of the body, a hook carrier located within the body and attached to the leader, an obstruction on the leader adapted to engage the forward end of the body to prevent forward movement of the body over the leader, the body having a slot opening from the tail end thereof, a projection upon the carrier passing through the slot, a hook carried by the projection, rear hooks removably attached to the carrier and passing out through the tail end of the body, and an inextensible ferrule surrounding the tail end of the body and abutting said rear hooks to prevent rearward or lateral movement of said bait body.

1,756,261. FREEZING APPARATUS. LEROY S. PFOUTS, Canton, Ohio, assignor to The H. H. Miller Industries Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 15, 1927. Serial No. 212,977. 8 Claims. (Cl. 62—114.)



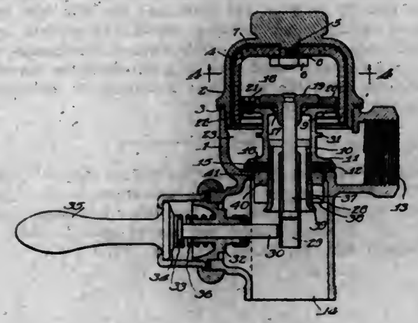
1. In apparatus of the class described, the combination of an upright freezing cylinder having upper and lower heads and inner and outer rotatable members arranged to rotate in opposite directions, a driving mechanism below said freezing cylinder, concentrically arranged shafts connected with elements of said driving mechanism and said rotatable members, respectively, and inter-related elements carried by said shafts below said lower head and arranged to prevent flow of liquid escaping from said cylinder downwardly onto said driving mechanism.

1,756,262. MACHINE FOR CORING CABBAGES OR THE LIKE. IRA G. SHARPE, Liberty Center, Ohio. Filed Nov. 4, 1927. Serial No. 230,960. 16 Claims. (Cl. 146—52.)



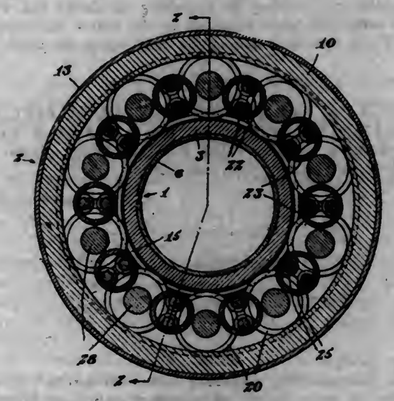
5. In combination with a work table and means to operate same, a series of normally inoperative corers, means to impart traveling movement to said corers as a unit with respect to the movement of the work table, means to effect relative vertical movement between the table and corers, means to rotate each corer clockwise during said vertical movement in one direction and during said movement of the corers as a unit, and means to rotate each corer counter-clockwise during said vertical movement in the opposite direction and during said movement of the corers as a unit.

1,756,263. FLUSH VALVE. WILLIAM E. SLOAN, Chicago, Ill. Filed Apr. 9, 1927. Serial No. 182,518. 5 Claims. (Cl. 137—93.)



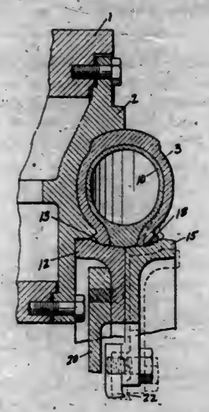
1. A flush valve comprising a casing, a piston in said casing dividing it into an upper and a lower chamber, a valve member connected with said piston and located in the lower chamber, a seat co-operating with said valve member, a nonmetallic lining in said upper chamber which engages said piston and acts as a guide therefor, said non-metallic lining open at one end and closed at the other end, and means for relieving the pressure in said upper chamber when it is desired to operate the valve.

1,756,264. ROLLER BEARING. GEORGE W. TAYLOR, Wellesley, Mass., assignor, by mesne assignments, to Harold J. Clark, Watertown, Mass. Filed Dec. 17, 1926. Serial No. 155,390. 8 Claims. (Cl. 308—206.)



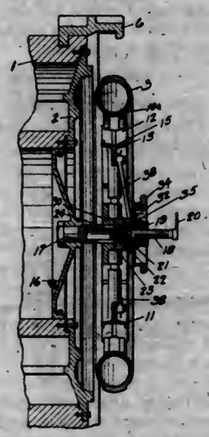
1. In a roller bearing, inner and outer concentric sleeves, parallel opposed faces on said sleeves forming a race, a series of supporting rollers mounted between and rolling on the opposed bearing faces of said sleeves, each of said rollers having an annular groove therein, a pair of separating rollers between each pair of adjacent supporting rollers, a retaining ring extending around each of said pairs of separating rollers and projecting into said annular groove in each of said adjacent supporting rollers, and means on said outer sleeve cooperating with said annular grooves to prevent longitudinal displacement of said supporting rollers.

1,756,265. MOLD. WALTER P. VOTH, Akron, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 18, 1926. Serial No. 129,903. 17 Claims. (Cl. 18—38.)



1. An apparatus for vulcanizing tires, comprising a mold and a curing ring, a portion of the ring being rigidly attached to the mold and another portion of the ring being movable toward and from its position in the complete ring.

1,756,266. MOLD. WALTER P. VOTH, Akron, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a Corporation of Ohio. Filed Aug. 18, 1926. Serial No. 129,904. 12 Claims. (Cl. 18—38.)



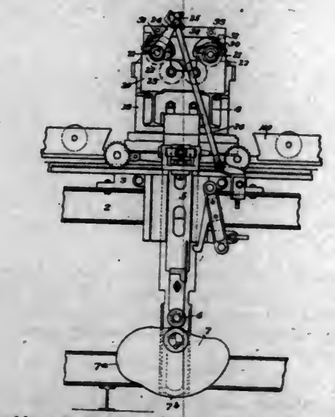
1. In an apparatus for the vulcanization of pneumatic tires, the combination of a mold, a transversely divided curing ring adapted to form a seat for the beads of the tire and the air bag, a support with which the ring may be moved toward and from the mold, a rigid arm connecting the support with a ring segment, and a mechanism carried by the support and connected with a second ring segment for moving it toward and from the axis of the mold.

1,756,267. VARNISH OR LACQUER AND METHOD OF PREPARING THE SAME. HAROLD F. WAKEFIELD, Newark, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 24, 1927, Serial No. 170,750. Renewed May 19, 1928. 2 Claims. (Cl. 134—26.)

1. Method of preparing non-penetrative varnishes and lacquers from reactive resins of the phenol-aldehyde type,

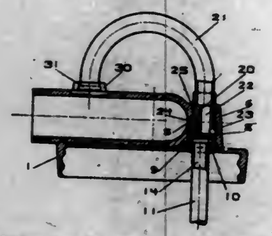
comprising effecting a partial transformation of the reactive resin to the insoluble resinoid modification by application of heat, commingling it with a solvent for the reactive component, and mechanically converting the mixture into a colloidal dispersion.

1,756,268. BLOCK PRINTING MACHINE. HARRY A. WEBSTER, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed Aug. 17, 1928. Serial No. 300,210. 41 Claims. (Cl. 101—199.)



1. In a block printing machine, a printing head having a plurality of separate block sections each of which is relatively movable into a printing or a non-printing position, a common operating means for all the sections, and an individual mechanism for each section for selectively holding it in one of said positions.

1,756,269. SIPHON BOTTLE. EMIL WEINHEIM, New York, N. Y. Filed Nov. 1, 1928. Serial No. 316,581. 5 Claims. (Cl. 215—4.)



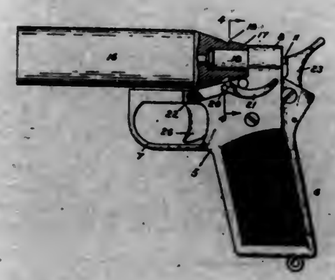
5. In a siphon bottle, means for charging liquid with a gas under pressure and for discharging the charged liquid comprising means for mounting a cooperating cartridge of compressed gas; and a single valve member for controlling all fluid entrance and exit from said siphon bottle.

1,756,270. SPRING WHEEL. PERCIVAL L. WHITTENBERGER, Bisbee, Ariz. Filed May 10, 1928. Serial No. 276,666. 1 Claim. (Cl. 152—32.)



In a spring wheel including a hub having an annular body secured thereon and a tire supporting rim arranged concentrically in spaced relation to the annular body, opposed pairs of lugs arranged on the outer peripheral face of the annular body and the inner peripheral face of the rim, said pairs of lugs being formed with oppositely threaded sockets and expansible coil springs disposed radially between the body and the rim, the ends of each spring being disposed within the sockets, eyes formed integrally on the opposite ends of the springs, the outer peripheries of said eyes being threaded for threaded engagement with the sockets in a manner to detachably secure the springs therein.

1,756,271. PISTOL FOR DISCHARGING SIGNAL CARTRIDGES. SAMUEL WILEY, Metuchen, N. J. Filed Dec. 11, 1928. Serial No. 325,325. 5 Claims. (Cl. 42—1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. A firearm comprising a frame having a rearwardly inclined upper wall, a fixed breech on the frame in rear of the inclined wall, a tube secured in the fore part of the breech and spaced from the inclined wall, a firing pin in the tube, means for actuating the firing pin, a cartridge retaining latch mounted in the frame and directed toward the tube and means for depressing the latch.

1,756,272. MEANS FOR CONTROL OF LIFT AND BALANCE OF AIRCRAFT. CHARLES ARTHUR WRAGG, Washington, D. C. Filed Feb. 19, 1926. Serial No. 89,416. 4 Claims. (Cl. 244—29.)



1. A balanced lift regulating means for aircraft in combination, a main wing, an auxiliary wing having comparatively short chord, the leading edge of said auxiliary wing being in a plane below but not forward of the trailing edge of said main wing the gap being less than the maximum thickness of said main wing, said auxiliary wings adapted to tilt to vary the gap and said gap becoming less as the angle of said auxiliary wing is increased.

1,756,273. SIGNAL CAP FOR PNEUMATIC TIRES. FRANCIS Y. WYNKOOP, Denver, Colo. Filed Sept. 11, 1928. Serial No. 305,168. 8 Claims. (Cl. 116—34.)

1. In a tire-valve-casing cap a subnormal pressure indicator comprising a whistle in the wall of the cap, a plug carrying a tube centrally within the cap, and a

spring operated plunger adjustably and slidably mounted within the tube and having a spring stop at one end



adapted to press against the tire valve stem when the cap is positioned on the casing, said plug forming a stop for the end of the casing.

1,756,274. SIGNALING CONDUCTOR. GUSTAVUS A. ANDEREGG, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1926, Serial No. 157,442, and in Great Britain June 15, 1926. 15 Claims. (Cl. 178—45.)



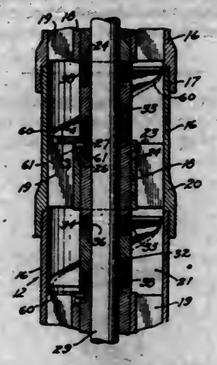
1. The method of producing a signaling conductor having an inner conducting portion and a metallic covering fitting said portion loosely, which comprises forming the conducting portion with external projecting portions, applying the covering over said projecting portions, and subsequently loosening the covering by deforming the projecting portions.

1,756,275. LIQUID TREATMENT. ABRAHAM SIDNEY BEHRMAN, Chicago, Ill., assignor to General Zeolite Company, Chicago, Ill., a Corporation of Illinois. Filed May 23, 1929. Serial No. 365,581. 8 Claims. (Cl. 210—28.)

1. A process of treating water for ice making which comprises subjecting the water to treatment with alkaline earth zeolite sand then with lime.

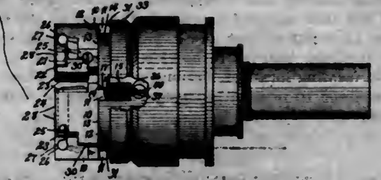
1,756,276. SLIDING BEARING BUSHING FOR PUMP CONSTRUCTION. ALFRED H. BOWLER, Jr., Los Angeles, Calif., assignor, by mesne assignments, to Kimball-Krogh Pump Company, a Corporation of Delaware. Filed Apr. 26, 1927. Serial No. 186,639. 8 Claims. (Cl. 103—90.)

1. In a rotary pump, the combination of: a plurality of spaced bearing supports; a plurality of bearings, one being supported by each bearing support, said bearings being movable in an axial direction relative to said bearing supports but not rotatable relative thereto; a shaft adapted to rotate in said bearings; an element secured to said shaft between said bearings, the extremities of said element being in contact with the adjacent ends



of said bearings; and means for axially moving said shaft, either of said bearings being capable of moving axially with said element.

1,756,277. SELF-OPENING DIE HEAD. ALBERT F. BREITENSTEIN, New Haven, Conn., assignor to The Geometric Tool Company, New Haven, Conn., a Corporation. Filed July 18, 1929. Serial No. 379,164. 1 Claim. (Cl. 10—95.)



In a self-opening die-head, the combination with a body-member having an axial bore and formed in its outer end with a plurality of substantially-radial guide-grooves opening through its front face and through its periphery and intersecting the said bore; of a rearwardly-facing anchoring-shoulder provided in a side-wall of each of the said guide-grooves; a plurality of chaser-carriers bodily movable radially in the said body-member and each comprising a body-portion bearing at its rear face upon the front face of the said body-member and formed with an integral rearwardly-projecting tang reciprocating in one of the said guide-grooves; and a forwardly-facing anchoring-shoulder formed in one side of the said tang and located in position to co-act with the anchoring-shoulder of the said guide-groove to resist the lateral and perpendicular canting of the chaser-carrier in conjunction with the bearing of the rear face of the body-portion of the same upon the front face of the body-member.

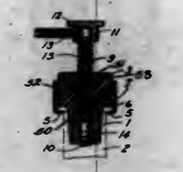
1,756,278. CONVEYER BELT. THOMAS E. BUCKNER, Plaska, Tex. Filed Mar. 11, 1929. Serial No. 346,059. 1 Claim. (Cl. 19—78.)



A follower for conveyer belts, wherein the belt is provided with a transversely extending rib; a fork-shaped follower unit adapted to have its back edge portion dis-

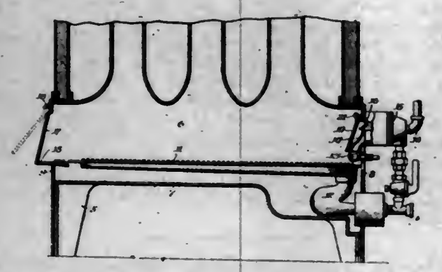
posed against one side of the rib, a brace unit comprising a plate for disposition against the opposite side of the rib, a plurality of spring fingers extending laterally from said plate, the free ends of said fingers being offset for tensional engagement against the prongs of the said fork.

1,756,279. VALVE FOR MEASURING AND DISPENSING FLUID. LORN CAMPBELL, Jr., Lakewood, Ohio. Filed May 17, 1928. Serial No. 278,470. 1 Claim. (Cl. 215—77.)



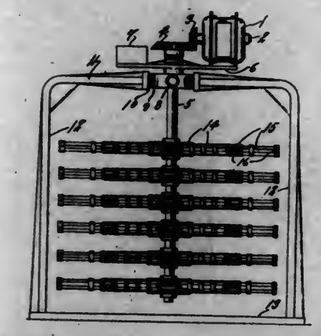
In a fluid container, a dispensing opening therefor, a fluid dispensing device for said container comprising a cap, a bored sealing member, means to secure said cap and sealing member on said container, a valve disposed in the bore of said sealing member comprising a tube extending through said sealing member, a closure for the end of the tube adapted to engage the end of the sealing member to compress the same, valve parts adjacent the end of the tube adapted to be closed by the sealing member, the sealing member having a flexible internal annulus adapted to resiliently engage said tube in fluid tight engagement therewith.

1,756,280. GAS-BURNING APPARATUS. GLEN C. CARNAHAN, Chicago, Ill., assignor to James B. Clow & Sons, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1928. Serial No. 292,243. 1 Claim. (Cl. 158—7.)



A fluid fuel burning apparatus comprising a walled combustion chamber including front and rear walls, means for burning fluid fuel in said chamber, the front and rear walls each having an opening therethrough, a pivotally mounted door for normally closing said opening in the rear wall and opening outwardly from said chamber, and a door normally closing said opening in the front wall of said chamber and pivotally mounted for swinging inwardly only of said chamber.

1,756,281. METHOD OF DRYING OR TREATING TIMBER AND THE LIKE. FRANK W. CHERRINGTON, Toledo, Ohio. Continuation of application Serial No. 681,295, filed Dec. 17, 1923. This application filed June 14, 1928. Serial No. 285,466. 8 Claims. (Cl. 34—24.)

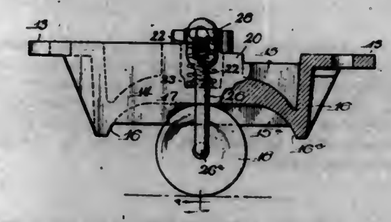


1. The hereindescribed method of treating or drying timbers or other like materials, which resides in rotating the material so as to cause progressive movement of the duct contents thereof from one end to the opposite end of the ducts and outwardly of the axis of rotation.

1,756,282. HIGH-SPEED TOOL-STEEL ALLOY. GEORGE R. COULS, Detroit, Mich. Filed Sept. 1, 1927. Serial No. 217,007. 3 Claims. (Cl. 75—1.)

3. High speed tool steels containing about one and one-half percent of vanadium and about one percent of copper.

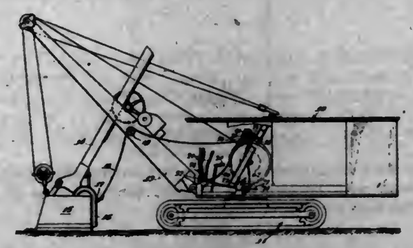
1,756,283. SIDE BEARING. GEORGE S. CRAWFORD, Chicago, Ill., assignor to Sophie L. Woods, Chicago, Ill. Filed Jan. 21, 1927. Serial No. 162,438. 8 Claims. (Cl. 308—226.)



1. In a side bearing, in combination with a bearing member presenting a bearing surface on one side and being constructed for attachment to a bolster on its other side, a transversely disposed roller engaged with said bearing surface, a transversely disposed vertically movable bar on the bolster side of said bearing member, a U-bar embracing the sides of said bearing member and pivotally connected to said transverse bar, said U-bar having a bottom member engaged with said roller and an expansion coiled spring acting in a vertical direction only interposed between said bar and said bearing member.

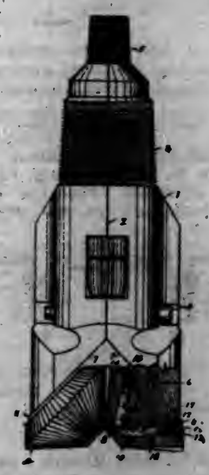
1,756,284. POWER-DIPPER DOOR-LATCH RELEASE. LAGAR R. CULVER, Los Angeles, Calif., assignor of one-half to John W. Prillaman and Ella F. Prillaman, Vista, Calif. Filed Jan. 28, 1929. Serial No. 334,519. 8 Claims. (Cl. 214—146.)

1. In a power dipper door latch releasing device, a rotatably mounted shaft, a winding drum loosely mounted on said shaft, a cable secured to and adapted to wind onto said drum, which cable is connected to the dipper door latch of the shovel with which the device is associated, means providing a slip drive connection between said drum and shaft, whereby said drum tends to rotate to wind the cable thereon, and maintain the same under a tension insufficient to actuate the latch, an arcuate brake



shoe arranged for operation adjacent to said drum, means for moving said brake shoe into frictional engagement with the cable on said drum, and pedally actuated means for providing a greater frictional connection between the drum and shaft whereby tension is applied to the cable sufficient to release the door latch.

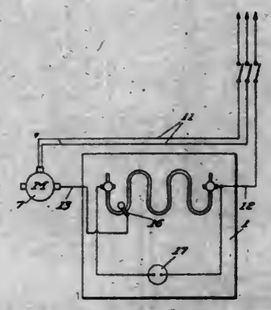
1,756,285. DRILL. HARRY R. DECKER, Houston, Tex., assignor to Decker Oil Tool Company, Houston, Tex., a Corporation of Texas. Filed Sept. 27, 1926. Serial No. 137,912. 6 Claims. (Cl. 255—71.)



1. A drill including a head, a spindle thereon, a rotatable cutter on said spindle, said spindle having an external annular groove and the cutter having an internal annular groove, said grooves registering, when said parts are assembled to form an annular channel, wall sockets in said channel, a fusible metal ring filling said channel and sockets and retaining the cutter on the spindle.

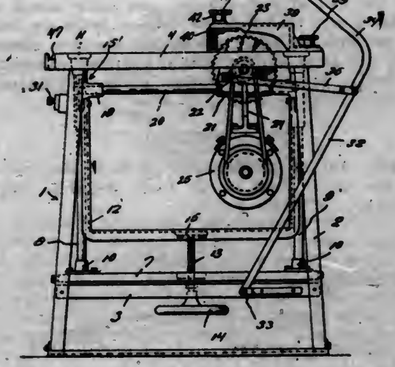
1,756,286. APPARATUS FOR DETERMINING VARIATIONS IN THE PHYSICAL CONDITIONS OF AGITATED MATERIALS. ARTHUR W. FARRALL and GROVER D. TURNBOW, Davis, Calif. Filed May 6, 1926. Serial No. 107,303. 7 Claims. (Cl. 259—1.)

1. An apparatus for determining variations in the physical conditions of agitated materials including in combination a motor for agitating the material, a current measuring instrument in series with the motor, said current measuring instrument including a current actuated pointer, a scale over which said pointer moves, and a plurality of manually adjustable indicating pointers juxtaposed with relation to the current indicating pointer for



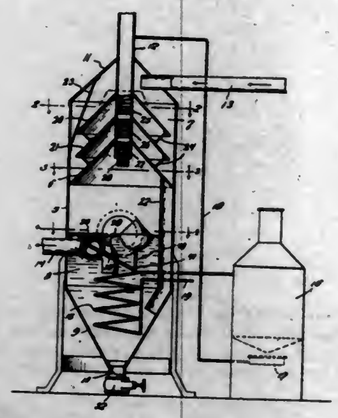
automatically indicating certain operations to be performed upon the agitated material, said current indicating instrument adapted to carry a substantially full load of current for the motor except at the moment of starting.

1,756,287. WOOD-SAWING MACHINE. PERRY G. FRESHWATER and ORVILLE G. FISHEL, Newton, Iowa. Filed Sept. 24, 1928. Serial No. 308,041. 1 Claim. (Cl. 143—47.)



In combination, a wood sawing machine comprising a frame, a table top arranged thereon and provided with a longitudinal slot, stationary vertically disposed guides arranged in the frame, a unit arranged for vertical adjustment within the frame between the guides, castings carried by the opposite ends of the vertically adjustable unit, each of said castings including a vertically disposed sleeve to accommodate the respective stationary vertical guides, and horizontally disposed sleeves on opposite sides of the vertical sleeve, longitudinally extending guide rods having their ends receivable in the respective horizontal sleeves, a saw carriage slidably mounted on said longitudinal guide rods of the vertically adjustable units, a circular saw blade mounted on the carriage, means for actuating the circular saw blade, said saw blade adapted to protrude through the slot in the table top, and means for moving the carriage along the longitudinally disposed guide rod to force the circular saw blade through the stock placed on the table top across said slot.

1,756,288. GAS AND OIL SEPARATOR. HARLAN D. GRAY, ERVIN AUXTER, and JOHN ARTHUR NOBLE, Sr., Shreveport, La., assignors, by direct and mesne assignments, to Superior Oil and Gas Separator Company, Incorporated, Shreveport, La., a Corporation of Louisiana. Filed Dec. 17, 1928. Serial No. 326,686. 5 Claims. (Cl. 183—2.7.)



2. The combination, in a gas and oil separator, of an expansion chamber having a settling chamber communicating therewith, means for delivering oil and gas into the upper portion of the expansion chamber, a conical baffle arranged in said expansion chamber to receive the incoming oil and spread it in a thin film to fall in a curtain adjacent the wall of such chamber, gas outlet means communicating with the expansion chamber below the conical baffle and with the top of the settling chamber, means to prevent gas from passing from the settling chamber except through said communicating means, and means for drawing oil from the settling chamber.

1,756,289. DRAFTING BOARD. MILO M. HARDING, Los Angeles, Calif. Filed Jan. 23, 1929. Serial No. 334,469. 2 Claims. (Cl. 240—2.)



1. A drafting board comprising a board member having a central opening, a glass panel set in said opening, a hollow open-top reflector secured to the underside of said board member beneath said panel and gradually increasing in depth from front to rear of the board member to form a base adapted to support said board member at an inclination on a desk or table top the rear of the reflector being curved inwardly for assuring maximum reflection, and a lamp socket mounted in the deeper rear end of said reflector.

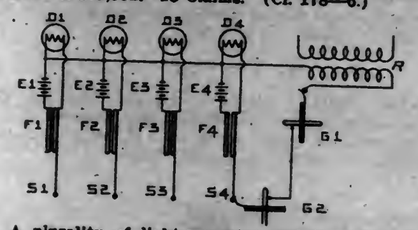
1,756,290. COMBINATION SINK AND GARBAGE RECEPTACLE. CHARLES G. HIBNER, Los Angeles, Calif. Filed Apr. 2, 1928. Serial No. 266,468. 3 Claims. (Cl. 4—289.)

1. In a combination sink and garbage receptacle, a sink member with a pocket extending downwardly from the bottom side of said sink member and provided with an outlet orifice adapted for connection with the sink drainage, a garbage receptacle positioned in said pocket and supported at its upper side on the bottom of the sink, a perforate lid for said receptacle, and a flange on the



upper side of said receptacle for supporting the same and provided with perforations in said flange outside of the wall of said receptacle.

1,756,291. CELL PERSISTENCE TRANSMITTER. CHARLES FRANCIS JENKINS, Washington, D. C., assignor to Jenkins Laboratories, Washington, D. C., a Corporation of the District of Columbia. Filed July 16, 1928. Serial No. 292,992. 13 Claims. (Cl. 178—6.)



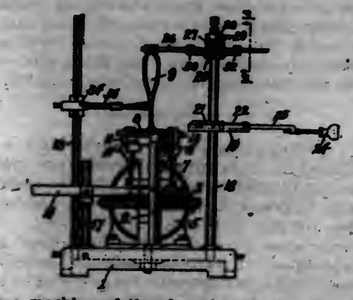
1. A plurality of light-current translating devices, an impulse storing element in circuit with each device, and means for connecting the storing elements into a common circuit.

1,756,292. SCALE PAN. REINHOLD A. KOPP, Chicago, Ill., assignor to W. M. Welch Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 8, 1929. Serial No. 353,298. 7 Claims. (Cl. 265—27.)



1. In a scale having a pan supporting standard, an integral structure comprising a pan having legs telescoping into said standard.

1,756,293. WORK-TRUING MEANS. FRANK W. KREMNEC, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 14, 1927. Serial No. 175,174. 6 Claims. (Cl. 49—7.)



4. In a machine of the class described, means for holding and rotating a work-piece, means operable to effect a centering of the work-piece with respect to the holding means, and means for exerting pressure against the work-piece in spaced relation to the holding means and transverse to its axis of rotation to correct distortion in a softened portion of the work-piece intermediate said holding and pressure means, said pressure means having provisions for limiting the extent of its pressure applying movement to the work-piece.

1,756,294. RUN-REPAIRING MULTIPLE-NEEDLE HAND TOOL. WILLIAM H. LEAVIN, New York, N. Y., assignor to Gotham Knitbac Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed July 31, 1929. Serial No. 382,483. 10 Claims. (Cl. 66—1.)



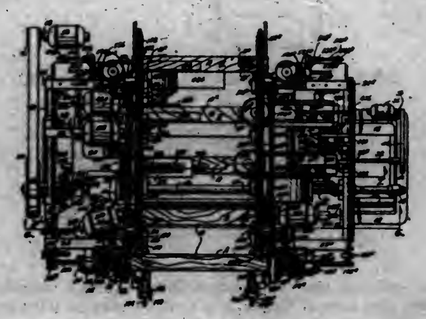
1. In a multiple needle run repairing hand tool, a handle, a plurality of needles projecting from one end of said handle and means whereby all but one of said needles may be placed out of operative position.

1,756,295. GENTLEMAN'S CRAVAT, FOUR-IN-HAND TYPE. BORRIS MORRIS LEVIN, San Francisco, Calif. Filed Apr. 9, 1929. Serial No. 353,746. 1 Claim. (Cl. 2—146.)



The attachment of a prearranged cravat filler to the body of the cravat by duel lines of hand stitches, and the lines of hand stitches commencing at opposite ends of the cravat, crossing each other in approximately the mathematical center of the cravat and ending approximately three-fifths of the length of the cravat from where each started.

1,756,296. WINDOW-FRAME MACHINE. SØREN MADSEN, Clinton, Iowa, assignor to Curtis Companies, Incorporated, Clinton, Iowa. Filed Sept. 27, 1927. Serial No. 222,294. 24 Claims. (Cl. 144—5.)



1. In a machine of the class described, means for advancing stock through the machine in successive steps, routing units for operating on the stock at different steps in its advancement, means for automatically, vertically, oscillating said units and for automatically moving the units lengthwise of the stock for forming countersink and through mortises in successive steps.

1,756,297. SILENCER. HIRAM PERCY MAXIM and ROLAND B. BOURNE, Hartford, Conn., assignors, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn., a Corporation of Connecticut. Filed June 27, 1927. Serial No. 201,951. 3 Claims. (Cl. 137—160.)

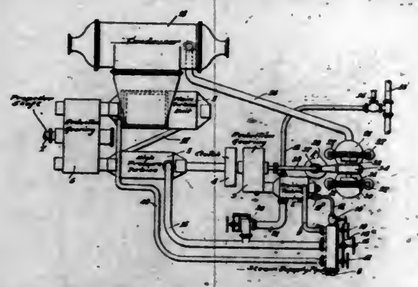


1. A silencer comprising two headers one of them with an opening therethrough, a grouping of substantially identical, spirally wound sheets, whose spirally wound edges abut said two headers, said sheet arranged in superposed interwound relation so that in a cross-section parallel to the headers the inner and the outer ends of the wound edges are substantially symmetrically spaced on an inner and an outer concentric circle respectively, the inner straight edges of the sheets together with the header walls defining an inner centrally extending chamber communicating with the exterior through said opening, and a plurality of integrally formed projections on said spirally wound sheets, said projections being parallel to the header engaging edges of the sheets and being axially displaced with respect to each other on two adjacent sheets, thus defining the depth and width of the spirally winding passages formed between two adjacent sheets.

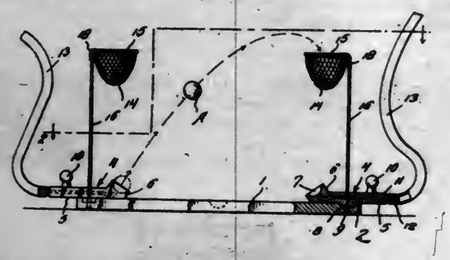
1,756,298. CRUISING-TURBINE ARRANGEMENT. JOHN F. METTEN, Philadelphia, Pa. Filed Mar. 15, 1926. Serial No. 94,976. 10 Claims. (Cl. 60—68.)

6. The combination with a cruising turbine, of a normal steam supply means therefor, a supplemental steam supply, means for controlling said supplemental supply by governing mechanism, an exhaust pipe adapted for cooperation with the normal supply, an exhaust pipe adapted for cooperation with the supplemental supply,

means for shutting off said normal supply while said supplemental supply continues, and means whereby said normal exhaust pipe is automatically rendered inoperative when said normal supply is cut off, thereby permitting the supplemental exhaust to operate.



1,756,299. GAME. JOHN C. OWENS, East Liverpool, Ohio. Filed Mar. 8, 1929. Serial No. 345,343. 2 Claims. (Cl. 273—85.)



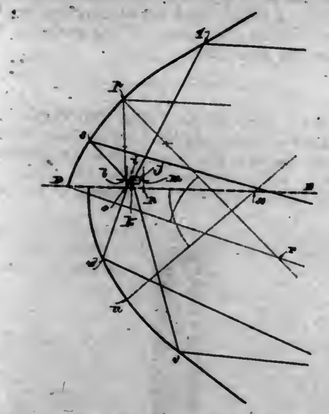
1. A game of the class described comprising a base, a pair of units pivoted on the respective ends of the base for swinging movement in a horizontal plane, each unit including a body formed at its inner end with a ball-receiving and supporting cavity, a basket, supporting means therefor extending upwardly from each of the units, and means for projecting the ball from its cavity in a direction toward the opposite basket.

1,756,300. AEROFOIL. KENNETH NOBLE PEARSON, Netheravon, Shepperton, England. Filed Aug. 8, 1927, Serial No. 211,428, and in Great Britain Apr. 12, 1927. 9 Claims. (Cl. 244—29.)



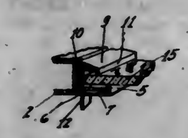
1. An aileron having two opposed convexly curved surfaces adapted to be subjected to the action of wind pressure, a rotatable axle about which the aileron is eccentrically mounted to turn, and means for rotatably adjusting the aileron about the axle to present different portions of the surfaces to the wind pressure, each surface having curves of different curvature in cross-sectional planes substantially at right angles to each other, with the curve of greater curvature of one surface and the curve of lesser curvature of the other surface in one of the planes and the curve of greater curvature of the said other surface and the curve of lesser curvature of the said one surface in the other plane.

1,756,301. REFLECTOR FOR RAYS EMITTED BY A LUMINOUS SOURCE. JACQUES LOUIS PECH, Montpellier, France. Filed Nov. 14, 1927, Serial No. 233,277, and in France Nov. 16, 1926. 1 Claim. (Cl. 240—41.)



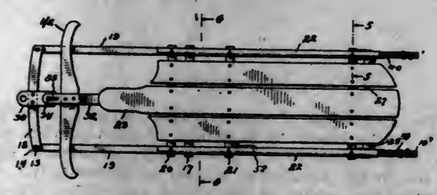
A reflector consisting of an upper and a lower part having substantially a common axis, the upper part comprising an outer parabolic surface having its focus on the common axis and an inner spherical surface forming a continuation of the parabolic surface and having its center and its focus below the axis; and the lower part comprising an outer parabolic surface having its focus on the common axis and in front of the focus of the upper parabolic surface and an inner spherical surface forming a continuation of the lower parabolic surface having its center on the axis and its focus below the axis.

1,756,302. GLASS-FASTENING DEVICE. EDWARD PENDERY, Newport, Ky., assignor to The Higgin Manufacturing Company, Newport, Ky., a Corporation of West Virginia. Filed Mar. 14, 1928. Serial No. 261,604. 12 Claims. (Cl. 189—77.)



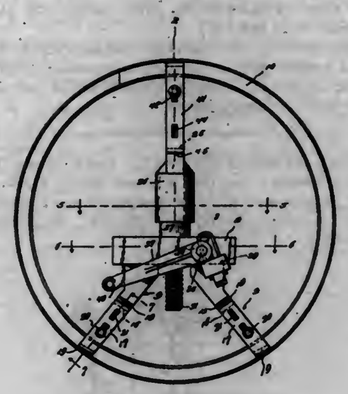
1. In a sash a shoulder defining a glass opening, a ledge extending inwardly from said shoulder and forming a bearing for said glass, a glass fastening member with a head having a portion adapted to abut said shoulder and a portion adapted to overlie the upper surface of said glass, a tine attached to said head, and a hole through said ledge for the passage of said tine, said tine being bent over on the under side of said ledge.

1,756,303. SLED. ROSS M. G. PHILLIPS, New Haven, Conn. Filed Apr. 1, 1927. Serial No. 180,271. 3 Claims. (Cl. 280—22.)



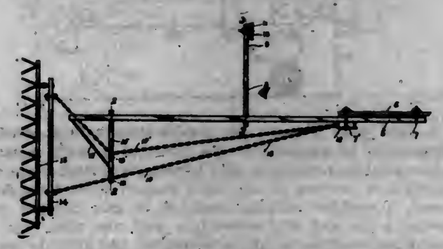
2. In a sled; a body member; a rock shaft supported relatively thereto; runners connected with the body member; a draw bar connected with each of the runners near the rear ends thereof; a steering bar; a connection between the steering bar and rock shaft whereby a straight line movement of the steering bar will actuate the rock shaft; and means associated with the body member to prevent such straight line movement when desired, comprising a rock lever movable into and out of the path of a projection on the draw bar.

1,756,304. COMBINED RIM TOOL AND TIRE CARRIER. JOSEPH A. PLOURDE and ADELORD J. TETREAULT, Chicopee Falls, Mass. Filed Jan. 23, 1929. Serial No. 334,409. 1 Claim. (Cl. 224—29.)



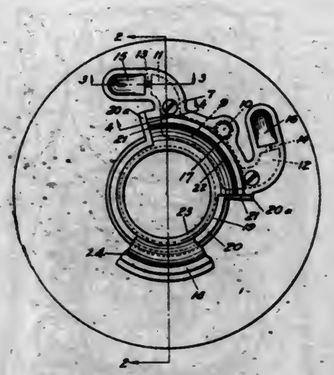
In a device of the class described, a relatively fixed body, a pair of rigid rim-engaging arms provided at their outer ends with rim contacting lugs on one side, a pair of links adjustably mounted by means of a pin on the opposite sides of said arms, said links being provided at their outer ends with rim-engaging hooks, and being also provided at their inner ends with additional hooks, said arms being formed with shoulders with which said last named hooks are engaged to relieve the pin of shearing strain, a guide screw in said arm extending through a slot in said link to prevent pivotal movement of link, and an adjustable arm on said body provided with rim-engaging means at its outer end.

1,756,305. HITCH FOR AGRICULTURAL IMPLEMENTS. EDWARD F. RAMSEIER, Edberg, Alberta, Canada. Filed Sept. 3, 1929. Serial No. 390,193. 4 Claims. (Cl. 97—5.)



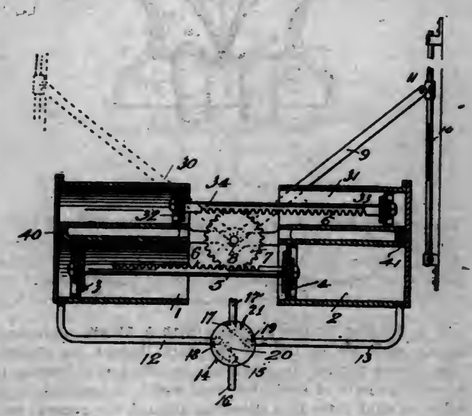
1. A hitch of the class described, comprising a pole for attachment to a plow, a flexible element connected to the forward end thereof and extended substantially lengthwise of the pole to beyond its rear end for attachment to the draw-bar of a drag harrow, and a jib rigidly projecting from the pole and having openings through which the flexible element is passed.

1,756,306. IGNITION DEVICE FOR OIL BURNERS. HILMER F. RODLER, West New York, N. J., assignor to Calvin J. Mummert, West New York, N. J. Filed Nov. 26, 1926. Serial No. 150,722. 3 Claims. (Cl. 158—28.)



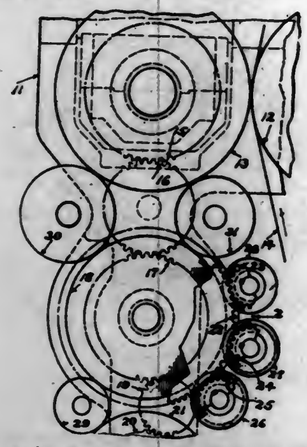
1. An ignition unit for oil burners comprising a base plate and air collar, said air collar having a groove at its upper end extending part way around the same, walls integral with the collar forming a gas channel, a gas admission port opening into said channel, a pair of gas burners connected with said channel at separated points around the periphery of the collar, and a ring around the air collar and resting in the groove and supported by the collar.

1,756,307. PNEUMATIC MOTOR. HAROLD ROWNTREE, Scarsdale, N. Y., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 16, 1924. Serial No. 732,362. 11 Claims. (Cl. 121—44.)



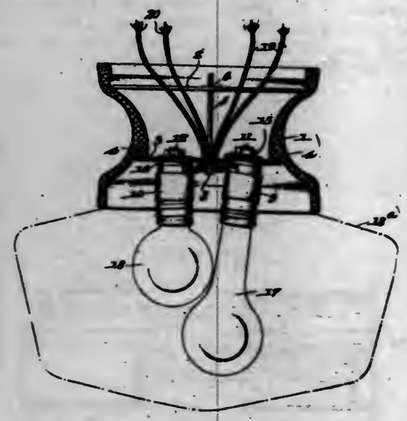
1. In a door-operating motor, the combination of a larger operating cylinder, a smaller opposing cylinder, said cylinders having pistons therein, and means for maintaining the pressure in the opposing cylinder substantially less than the operating pressure at the moment of initiation of the door movement of the motor, and for causing the pressure in the opposing cylinder to gradually build up to and be maintained at a pressure at least equal to the operating pressure during the closing movement of the motor.

1,756,308. INKING MECHANISM FOR PRINTING PRESSES. LOUIS A. SCHMIDT, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed July 30, 1928. Serial No. 296,170. 9 Claims. (Cl. 101—349.)



1. In an inking mechanism for a printing press, an ink distributing cylinder, an ink roller having its peripheral surface helically grooved and in operative engagement with the cylinder, and means for rotating the cylinder at one peripheral speed and the roller at a different speed.

1,756,309. LIGHTING FIXTURE. ROY W. SCHWEIKER, Lansdale, Pa. Filed Aug. 22, 1927. Serial No. 214,596. 4 Claims. (Cl. 240—78.)



3. A lighting fixture provided with a fixture plate having an aperture in the central part thereof, an electric lamp socket carried by said plate in offset relationship to the central part of said plate and which is inclined in relation to said plate in a direction toward the general central axis of the fixture, a long-necked electric lamp carried by said socket and having its bulb disposed in the general central axis of the lighting fixture and adapted for normal use, circuit wires from said socket which run through the aforesaid aperture, a second electric lamp socket carried by said fixture plate in offset relationship to the central part of said plate, a short-necked electric lamp carried by the said last-named socket and disposed above the bulb and the long-necked lamp, and circuit wires independent of the aforesaid circuit wires, connected to said last-named socket and running through the aforesaid aperture.

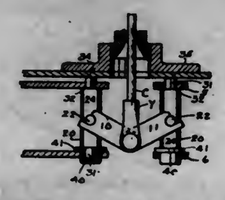
1,756,310. PROCESS OF VULCANIZING RUBBER. WINFIELD SCOTT, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 28, 1927. Serial No. 236,372. 16 Claims. (Cl. 18—53.)

1. The process of vulcanizing rubber which comprises heating a mixture of rubber and sulphur in the presence of an accelerator comprising the aldehyde derivative of the reaction product of a mercapto compound containing a C—SH grouping with an aliphatic amine, said amine being free of an aryl substituent group.

1,756,311. METHOD OF CLEANING METALS. WALDO L. SEMON, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1929. Serial No. 341,562. 9 Claims. (Cl. 148—8.)

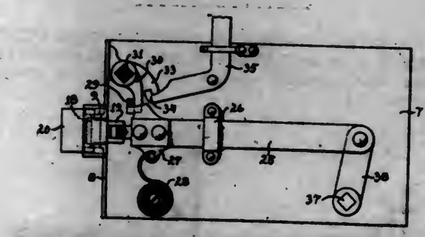
1. The method of cleaning metals which comprises treating metals with a solution comprising a strong non-oxidizing acid and a small proportion of an arylamino derivative of a benzothiasole.

1,756,312. BRAKE ASSEMBLY. JOHN SNEED, Ferndale, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 18, 1928. Serial No. 286,154. 14 Claims. (Cl. 188—78.)



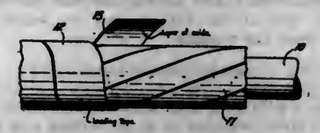
1. The combination of a brake shoe having spaced parallel thrust parts with aligned openings therein, a thrust member supported at its ends in said openings, and a retaining member having side walls engaging the wall of one of said openings and having an outwardly flared brim of greater diameter than said opening.

1,756,313. DOOR FASTENER. LEO THOMAS TAFFE, Detroit, Mich. Filed Sept. 28, 1927. Serial No. 222,509. 3 Claims. (Cl. 292—195.)



1. In a door fastener, the combination with a housing adapted to be attached to the door, of a latch member intermediately pivoted in said housing, a striker plate engageable by one end of said latch member to hold the door closed, a member slidably mounted in said housing and having a pin and slot connection with the other end of said latch member, a spring acting on the slidable member to retract the same and to hold the latch member normally in engagement with the striker plate, a rockable door handle shank having a projecting lug engageable with the slidable member to advance the same and thereby unlatch the door, said lug having a rearwardly and downwardly projecting heel, and a dog having a toe movable into position to engage said heel and thereby prevent the unlatching of the door by the operation of the handle

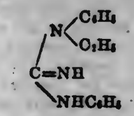
1,756,314. CONDUCTOR. WILLIAM B. TEN EYCK, deceased, Montclair, N. J., by Christine Z. Ten Eyck, administratrix, Montclair, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 25, 1925. Serial No. 18,334. 8 Claims. (Cl. 178—45.)



1. A loaded signaling conductor requiring a heat treatment to high temperatures comprising a conducting core, a magnetic loading material wrapped closely about the core, and a coating of reducible material on said loading material separating the loading material from the conducting core.

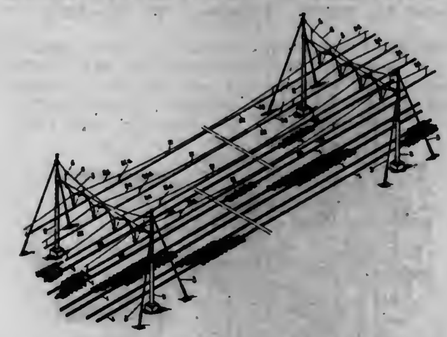
1,756,315. RUBBER VULCANIZATION PROCESS. WILLIAM P. TER HORST, Nitro, W. Va., assignor to The Rubber Service Laboratories Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 28, 1927. Serial No. 236,370. 2 Claims. (Cl. 18—53.)

1. A process of vulcanizing rubber or similar material which comprises combining with the rubber sulfur an unsymmetrical tri-substituted guanidine accelerator having the formula



and vulcanizing the rubber.

1,756,316. APPARATUS FOR MOUNTING WIRES. SYLVESTER M. VIELE, Altoona, Pa. Filed Nov. 30, 1927. Serial No. 236,786. 10 Claims. (Cl. 191—41.)

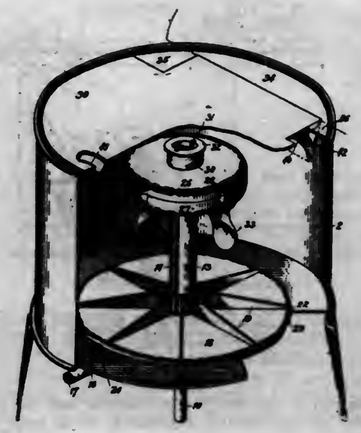


1. In an apparatus for mounting wire, the combination of a cross member; a contact wire; an insulated laterally rigid frame-work between the cross member and the contact wire; and a vertically yielding laterally rigid supporting connection between the contact wire and the frame-work.

1,756,317. METAL PICKLING. JAMES C. VIGNOS, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Apr. 18, 1928. Serial No. 271,118. 18 Claims. (Cl. 148—8.)

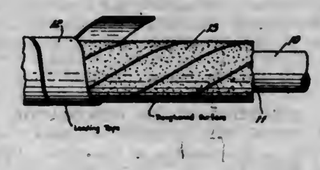
1. The process of cleaning a metal surface which comprises immersing such metal in a sulfuric acid solution containing a small proportion of the reaction product of an aldehyde and a salt of an aryl substituted dithiocarbamic acid.

1,756,318. WASHING MACHINE WITH MULTIPLE LIQUID-IMPELLING DEVICE. WILLIAM H. VOSS, Davenport, Iowa. Filed Mar. 18, 1925. Serial No. 15,219. 25 Claims. (Cl. 259—101.)



1. In a washing machine, a tub adapted to contain cleansing liquid, two liquid impelling members disposed in said tub and adapted to be adjustably maintained in spaced apart relation so as to receive therebetween variant volumes of the material to be cleansed, and means for positively rotating said liquid impelling members.

1,756,319. CONDUCTOR. JESSE F. WENTZ, New York, N. Y., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 9, 1925. Serial No. 13,943. 11 Claims. (Cl. 178—45.)

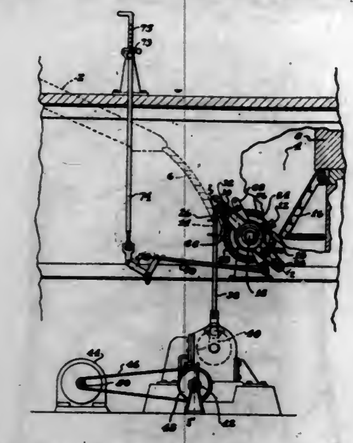


1. A loaded signaling conductor comprising a central conductor having a rough, exterior surface, and a magnetic loading material wrapped closely about the rough surface, said loading material requiring heat treatment to develop high permeability therein, and the permeability of which is sensitive to strain, said rough exterior surface contacting with said loading material at a large number of closely spaced areas, thereby preventing the loading material from welding securely to said surface during the heat treatment.

1,756,320. FURNACE. SIGURD J. A. WIEBE, East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1924. Serial No. 750,535. 4 Claims. (Cl. 83—52.)

1. A furnace having, in combination, a clinker grinding roll, a carrier lever adapted to be oscillated about an axis arranged in alinement with the axis of the roll, means for oscillating said lever, an actuating pawl carried by the lever and suitable connections adapted to rotate the roll in one direction, a second pawl carried by said lever

and suitable connections for rotating the roll in the opposite direction, and manually operable means for selectively rendering said pawls operative and inoperative to



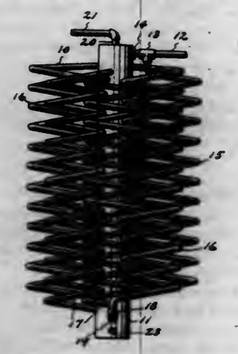
drive the roll at the will of the operator and for varying the extent of the effective movements of at least one of said pawls.

1,756,321. PULVERIZED-FUEL-BURNING APPARATUS. BERTRAM J. CROSS, Piermont, N. Y., assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Jan. 16, 1925. Serial No. 2,751. 5 Claims. (Cl. 110—104.)



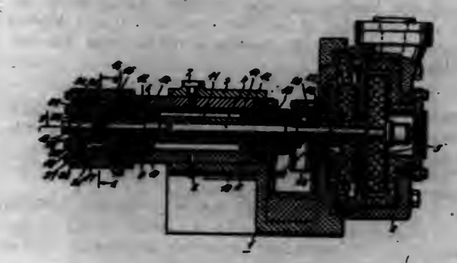
1. A pulverized fuel burner including a nozzle member having a fuel discharge tip portion including a passage of long and narrow cross-section and a plurality of flaring channels discharging therefrom, said channels being arranged side by side with their outlets alternately staggered.

1,756,322. MULTIPLE-FLUID GENERATOR. STUART A. WIER, Dallas, Tex., assignor to Tridex Corporation, Dallas, Tex., a Corporation of Delaware. Original application filed Feb. 14, 1927, Serial No. 168,161. Divided and this application filed Apr. 11, 1929. Serial No. 354,345. 7 Claims. (Cl. 122—245.)



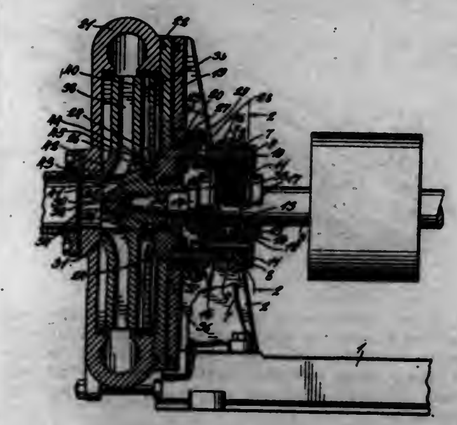
1. In a generator of the character described, a generating unit comprising a central vertical column, a vertical pre-heating coil at one side of the column and having its upper end connected with a water supply and its lower end connected to the lower end of the column, a plurality of vertical circulating coils disposed radially of the column and having both their upper and lower ends connected to the column, and a vertical steam coil at one side of the column and having one end connected with the upper end of the column and its lower discharge end free from the column.

1,756,323. CENTRIFUGAL PUMP. ELMER R. WILFLEY, Denver, Colo., assignor to A. R. Wilfley and Sons, Inc., a Corporation of Colorado. Filed Aug. 27, 1928. Serial No. 302,192. 6 Claims. (Cl. 103—103.)



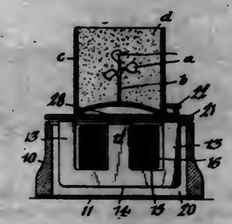
1. In a device of the class described, a support, a tubular member rotatably secured to the support, a shaft slidably mounted in the tubular member, means for preventing relative rotation between the shaft and tubular member, resilient means for exerting a force tending to move the shaft longitudinally with respect to the tubular member and a centrifugal device for moving the shaft longitudinally against the force of the resilient means.

1,756,324. CENTRIFUGAL PUMP. GEORGE F. WILFLEY, Denver, Colo., assignor to A. R. Wilfley and Sons, Inc., a Corporation of Colorado. Filed Sept. 10, 1928. Serial No. 304,869. 5 Claims. (Cl. 103—103.)



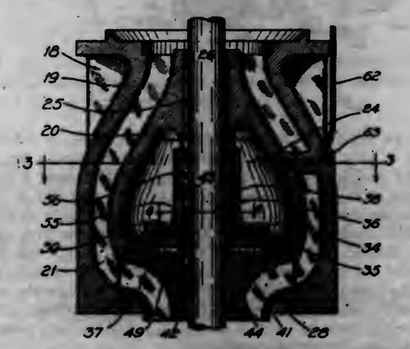
1. A centrifugal pump, comprising, in combination, a casing forming a runner chamber provided at one side with an inlet opening, the other side having an enlarged central opening, a cylindrical member extending through the central opening, means for forming a seal between the wall of the central opening and the outer surface of the cylindrical member, a shaft extending through the cylindrical member and terminating within the casing, a runner carried by the shaft, said runner having one or more sets of auxiliary blades on the side adjacent the cylindrical member, the side of the runner having the auxiliary blades being provided with a circular depression concentric with the shaft, the cylindrical member having a portion extending into the circular depression, said inwardly extending portion having a groove adapted to catch slippage and return it to the auxiliary blades and a stuffing box for forming a seal between the shaft and the cylindrical member.

1,756,325. APPARATUS FOR TREATING DENTAL INVESTMENTS. REGINALD V. WILLIAMS, Buffalo, N. Y. Filed Mar. 19, 1926. Serial No. 96,004. 1 Claim. (Cl. 259—72.)



A portable device for removing trapped gas or air from the liquid investment of a dental flask, comprising a casing including a chamber open at its upper end, an electromagnet housed within said chamber and rigidly suspended from the top of the casing, said electromagnet including a central pole and side poles and a coil for carrying an alternating current surrounding said central pole, the upper end of the central pole terminating below the level of the corresponding ends of the side piles, a vibratory cover plate mounted on the open end of said casing over said electromagnet for completing the magnetic circuit, said cover plate also constituting a support for the dental flask, adjusting screws for detachably holding the plate on the casing and for regulating the vibrating stroke thereof, and a spring applied to one of said screws and bearing against the underside of said cover plate for moving the same in a direction away from the electromagnet between the changes of frequency of current.

1,756,326. SELF-ADJUSTING INTERMEDIATE BUSHING. JOHN A. WINTROATH, Los Angeles, Calif., assignor to Peerless Pump Company, Los Angeles, Calif., a Corporation of California. Filed July 30, 1925. Serial No. 46,978. 8 Claims. (Cl. 103—102.)



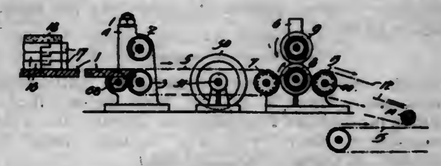
1. In a deep well turbine pump, the combination of: a pump head at the surface of the ground; a pump section suspended from said pump head and a substantial distance therebelow; an impeller in said pump section; a shaft operably connecting said impeller and a source of power adjacent said pump head; and a self-adjusting, self-centralising bearing positioned below the surface of the ground and journalling said shaft to prevent said shaft from whipping when rotating.

1,756,327. BEAD-SETTING RING. FRED L. ALLENSWORTH, Akron, Ohio, assignor to the Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 12, 1928. Serial No. 305,554. 8 Claims. (Cl. 154—9.)



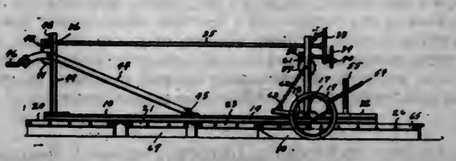
1. A bead setting ring having a split retaining ring secured thereto, said retaining ring being split at one point only of its circumference and unattached with respect to said head setting ring throughout approximately one half of its circumference including the split.

1,756,328. METHOD AND APPARATUS FOR FORMING PLASTIC EXPLOSIVES INTO STRINGS. ANTON ERIK ANDELIN, Bromarf, Bjorknas, Finland, assignor to Finska Forcit-Dynamit Aktiebolaget, Hango, Finland, a Corporation of Finland. Filed Dec. 1, 1928, Serial No. 323,085, and in Sweden Oct. 31, 1927. 4 Claims. (Cl. 18—9.)



1. Apparatus for preparing plastic explosive material in string form for use in the manufacture of dynamite cartridges and the like, which comprises a pair of pressing rollers adapted to press a quantity of plastic material into sheet form, a pair of cooperating grooved rollers, means for feeding said material from said pressing rollers to said grooved rollers, said last named rollers being adapted to form the material into a plurality of continuous strings separated from one another, and means for conveying said formed strings away from said grooved rollers, said apparatus including a drive shaft, and clutch members for releasably connecting said drive shaft to the pressing rollers and the grooved rollers.

1,756,329. ROAD-GRADING DEVICE. HARRY R. ANDREW, Roswell, N. Mex. Filed June 19, 1928. Serial No. 286,633. 8 Claims. (Cl. 37—160.)



1. In a device of the character described, a wheeled crank axle, a main frame supported at its rear portion on said axle, a suitable lever attached to said axle, means comprising a worm and a worm wheel the latter being fastened on a transverse shaft, said shaft being connected to said lever by a flexible connection, a longitudinal shaft having a hand wheel at its rear portion and a worm at its forward portion, said worm meshing with a worm wheel fastened on a forward transverse shaft, said shaft supported by a suitable hitch, and a plurality of converging and diverging scraper blades suitably fastened to said main frame.

1,756,330. SPLICING STRUCTURE FOR CANTED RAILS. VICTOR C. ARMSTRONG, Hackensack, N. J., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1929. Serial No. 383,448. 8 Claims. (Cl. 238—167.)

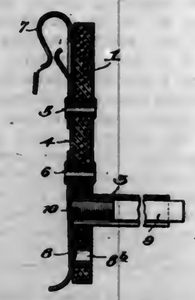


1. In a rail joint, the relatively canted rails, and a joint bar having an offset adapting the bar to the differential relative degree of cant between the two rails.

1,756,331. PROCESS OF RECOVERING VOLATILE PLASTICIZERS FROM CELLULOID AND THE LIKE. HARRY P. BASSETT, Cynthiana, Ky. Filed Feb. 10, 1927. Serial No. 167,380. 6 Claims. (Cl. 260—133.)

1. The herein described process of removing and recovering volatile plasticizers from celluloid and the like which comprises immersing the material to be treated in water containing a weak organic salt of a strong base, passing a current of steam therethrough to drive off the volatile plasticizing material present and recovering the volatile products driven off.

1,756,332. COMBINED MOTOR BEARING AND BRUSH HOLDER. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1928. Serial No. 255,458. 6 Claims. (Cl. 171—324.)



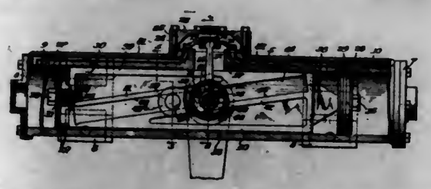
1. In an electric motor, a brush carrier comprising a non-metallic member, and an integral wire terminal blank and brush holder including a flat portion adapted to be attached to the carrier and a laterally offset tubular brush holding portion, a brush therein, and wire terminal engaging means connected to said flat portion and a clip pivotally mounted on said carrier adapted to engage the end of said brush holder to retain said brush therein.

1,756,333. EXTENSION DEVICE. SIDNEY J. BERTHERMAN, Chepachet, R. I., assignor to L. & B. Jewelry Manufacturing Company, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 7, 1929. Serial No. 412,465. 2 Claims. (Cl. 24—71.)



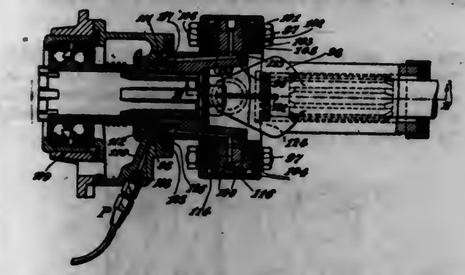
1. In an extension device for flexible bracelets, a plurality of sections hingedly connected to fold together, means for securing bracelet ends to the free ends of the end sections, a latch opening in one section, a cooperating resilient U-shaped catch on one of the end sections, and a member struck from the stock of the said end section and folded over the base of said catch to lock said catch to the said end section.

1,756,334. REVERSING-GEAR MECHANISM. CLARENCE CASPER BERTRAM, Chicago, Ill., assignor to Barco Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 13, 1922. Serial No. 600,659. 14 Claims. (Cl. 121—41.)



1. In a device of the character described, in combination, a fluid pressure operated motion imparting element having a rectilinear motion translating abutment arranged at an acute angle to the axis of said motion imparting element and non-rotatably slidable in guides, a motion imparting element to be moved by and engaging said abutment, a valve for controlling application of fluid pressure to said motion imparting element, gearing having a part thereof connecting said valve to said element to be moved, and manual control means for said valve connected to said element to be moved through another part of said gearing.

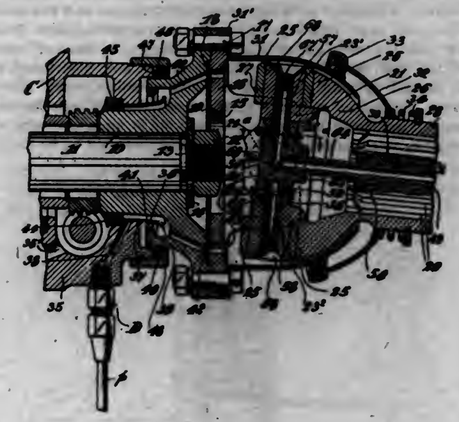
1,756,335. TRUNNION JOINT AND THE LUBRICATION THEREOF AND OF ASSOCIATED PARTS. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Auto Research Corporation, a Corporation of Delaware. Filed June 19, 1924, Serial No. 720,927. Renewed Sept. 12, 1929. 6 Claims. (Cl. 64—89.)



1. In apparatus of the character described, in combination, a pair of shafts, a universal joint connecting said shafts and including a clevis structure including a sleeve on one of said shafts and exposed at its clevis end, a clevis structure including a sleeve on the other of said shafts, a conduit conveying lubricant length wise of the first sleeve and through the clevis jaw structure to supply the bearings of the universal joint, an inlet for said conduit fixed during operation of the joint, a conduit through the other clevis structure, and means closing the inner end of said latter structure to confine the lubricant in its flow from the second mentioned clevis conduit.

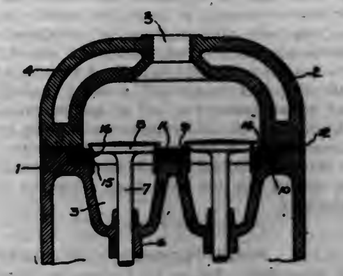
1,756,336. TRUNNION JOINT AND THE LUBRICATION THEREOF AND OF ASSOCIATED PARTS. JOSEPH BIJUR, New York, N, Y,. assignor to Auto Research Corporation, a Corporation of Delaware. Filed Mar. 25, 1925. Serial No. 18,092. 30 Claims. (Cl. 64—89.)

1. In a mechanical transmission, in combination, a lubricated trunnion joint, associated mechanism, means for supplying lubricant from said trunnion joint to said associated mechanism, said means comprising a conduit leading outward from the trunnion joint, a lubricant feeder



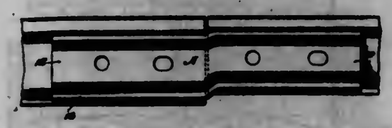
carried by a rotating part of the trunnion joint and delivering lubricant to said conduit, a fixed inlet supplying said feeder, and means preventing leak of lubricant from the course of flow between the inlet and the feeder.

1,756,337. POPPET VALVE. THOMAS BOWLER, North Vancouver, British Columbia, Canada. Filed Apr. 10, 1928. Serial No. 268,947. 4 Claims. (Cl. 128—188.)



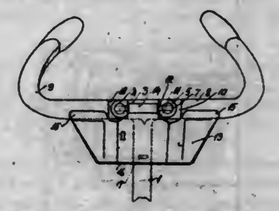
1. The combination with a cylinder and a poppet valve, of a seat adapted to be held against vertical displacement and adapted for lateral displacement.

1,756,338. BULLDOZED COMPROMISE JOINT BAR AND BLANK. DANIEL LAWRENCE BRAINE, Brooklyn, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed June 5, 1929. Serial No. 368,607. 5 Claims. (Cl. 238—167.)



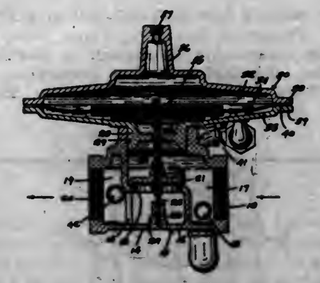
1. A blank from which a compromise joint bar is adapted to be bulldozed provided with a fishing surface having medial enlargement of metal within planes defining the inner and outer limits of said surface to compensate for draw of the metal of the blank incident to vertically offsetting the blank to compensate for the difference in the height of the rails.

1,756,339. ADJUSTABLE HANDLEBAR FOR BICYCLES, MOTOR BICYCLES, AND THE LIKE VEHICLES. CHARLES EMANUEL BROBERG, Copenhagen, Denmark. Filed Aug. 7, 1928, Serial No. 297,945, and in Denmark Jan. 19, 1928. 2 Claims. (Cl. 208—124.)



1. In handle bars for motor cycles, cycles and the like vehicles, the combination of two laterally extending arms, means for attaching these arms rotatably to the handle bar stem, a lock plate with two brackets engaging the arms of the handle bar in either their open operative position or in their folded down inoperative position, means for locking said lock plate with the handle bar arms in either of the extreme positions, to the effect that when the arms are locked in their folded down position unauthorized removal of the vehicle is prevented.

1,756,340. LOW-PRESSURE CUT-OFF. CHARLES L. BRYANT, Cleveland, Ohio. Filed Feb. 1, 1928. Serial No. 251,062. 6 Claims. (Cl. 137—153.)



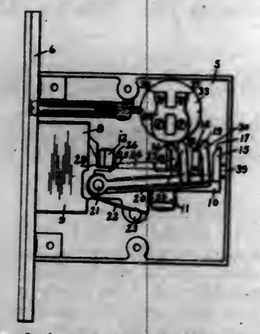
1. A low-pressure cut-off, comprising: a valve, biased to closed position; a motor, connected to said valve to open said valve; a motor duct, leading to said motor; a normal duct, leading from the line beyond said valve; a starting duct, leading from the line ahead of said valve; and a control valve, normally connecting said normal duct to said motor duct, but shiftable to connect said starting duct to said motor duct.

1,756,341. ELECTRICAL CONDUCTOR. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1924. Serial No. 758,984. 12 Claims. (Cl. 178—45.)



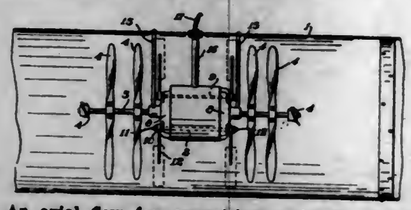
1. In a continuously loaded conductor which requires a heat treatment to high temperatures to develop one of its magnetic properties, a copper conductor having near its surface a zone of a material containing a far greater amount of oxygen per unit volume than does the conductor at its center.

1,756,342. LOCK. JOSEPH CARLIN, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed July 2, 1927. Serial No. 203,172. 6 Claims. (Cl. 70—46.)



1. In a door lock, a case, a bolt mounted in the case having a stem, a key operated roll-back mounted in the case, a plurality of pairs of engaging elements on said stem and roll-back, each pair comprising one element on the stem and one on the roll-back, said pairs of elements being adapted to be successively engaged during the operation of the roll-back to impart an extra long throw to the bolt, and a tumbler pivoted to the bolt, said tumbler having an end extending between the elements on said bolt and adapted to be engaged by said roll-back.

1,756,343. MEANS FOR MOVING AIR AGAINST PRESSURE. FREDERICK CHARAVAY, Piqua, Ohio, assignor, by mesne assignments, of one-half to Hartsell Industries, Inc., Wilmington, Del., a Corporation of Delaware. Filed Oct. 10, 1927. Serial No. 225,137. 2 Claims. (Cl. 230—122.)



1. An axial flow fan comprising a circular casing, a motor having an armature, mounted axially thereof, the shaft of said armature projecting from both ends of said motor, a plurality of airfoil propellers mounted in balanced staggered relation on each end of said shaft.

1,756,344. BUILDING ROADS. KARL DAMMANN, Essen, Germany. Filed July 2, 1928, Serial No. 290,041, and in Germany July 11, 1927. 4 Claims. (Cl. 94—23.)

1. A method of constructing roads which consists in superimposing on a suitable base a layer of metal stones, filling the interstices between the stones with sand, rolling down the said layer, removing the sand from the upper surface of the stones, and prior to the admission of traffic to the surface of the layer applying directly thereto a compressible layer binding covering which will be compressed substantially simultaneously with the layer thereunder by the action of the traffic subsequently passing thereover.

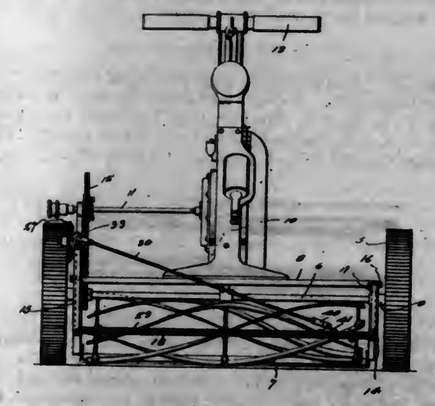
1,756,345. LOCKING MECHANISM. EDWARD LEE DUNN, East Orange, N. J., assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 3, 1928. Serial No. 309,955. 12 Claims. (Cl. 187—49.)

5. In an elevator system in which control mechanism is provided for controlling the operation of the elevator car and in which a hatchway gate is provided at each of a plurality of landings; mechanism for interlocking said control and said gates, each interlock mechanism comprising, a member movable by the corresponding gate upon opening thereof, a member adapted to be moved in one and the same direction upon operation of said control mechanism from off position into either starting position, a member associated with both of said other members and positioned to be moved by said second mentioned member, upon movement thereof as a result of the operation of said control mechanism to either start position, into such cooperative relation with said first mentioned member and to be main-



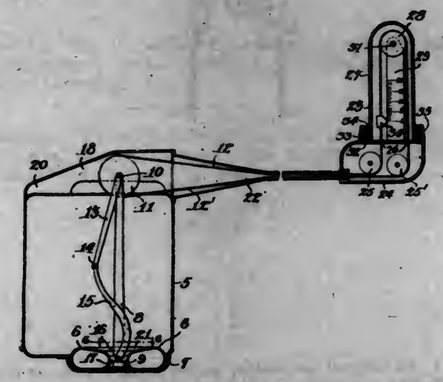
tained in such relation by said second mentioned member as to prevent movement of said first mentioned member and thus lock said gate, said second mentioned member, upon return of said control mechanism to off position, moving to release said third mentioned member and thereby release the first mentioned member, unlocking said gate; and means common to all of said interlock mechanisms and operable by said control mechanism, upon operation thereof from off position into either start position, to cause movement of all of said second mentioned members into locking relation with their respective first mentioned members.

1,756,346. WEED-TOPPING ATTACHMENT FOR LAWN MOWERS. FRANK C. J. DURSCH, Philadelphia, Pa. Filed Sept. 15, 1928. Serial No. 306,233. 5 Claims. (Cl. 56—238.)



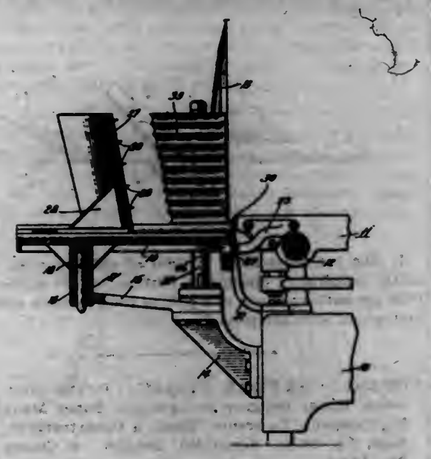
1. A topping attachment for lawn mowers comprising a substantially U-shaped frame adapted for attachment forwardly of the mower, a reciprocating cutter carried by the frame and extending transversely of the mower, a power take off means at one side of the frame, and a reciprocating drive rod operatively connected at one end to said power take off means and extending transversely of the mower with its opposite end operatively connected to said cutter, said power take off means comprising a shaft rotatably mounted at the upper end of one side of said frame, a sprocket wheel on the shaft, an eccentric operatively connected with the drive rod, and gears operatively connecting the shaft and the eccentric.

1,756,347. LIQUID-LEVEL INDICATOR. THOMAS M. EYNON, Philadelphia, Pa. Filed Mar. 31, 1921. Serial No. 457,277. 5 Claims. (Cl. 73—82.)



8. In an automobile indicator for gasoline depth, a tank, a float-operated wheel, a support for the wheel, a belt carried by the wheel, an indicator base, a pair of idlers rotatably supported in the base, a casing resting upon the base and transparent in one portion, packing for the casing, a pulley rotatably supported within the casing adapted to be rotated by said belt and a pointer carried by the belt and visible through the casing.

1,756,348. SLICE RECEIVER. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Aug. 16, 1926. Serial No. 129,825. 11 Claims. (Cl. 146—94.)

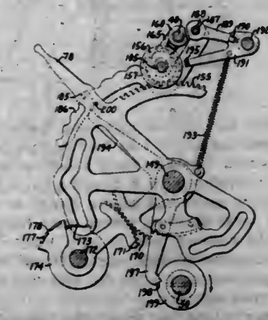


1. The combination with a slicing machine having a slicing knife and a relatively movable support for material to be sliced, of a slice receiver having a receiving surface disposed below the surface of said support and having a horizontally movable slice support disposed above said receiving surface, said slice receiver also having an upstanding abutment adjacent the edge of said receiver for preventing the lower edges of said slices from moving outwardly toward the outer edge of the slice receiver.

1,756,349. IRON SMELTING. RICHARD FRANCHOT, Washington, D. C., assignor to Ferro Chemicals, Inc., Washington, D. C., a Corporation of Delaware. Filed Mar. 15, 1928. Serial No. 262,047. 10 Claims (Cl. 75—14.)

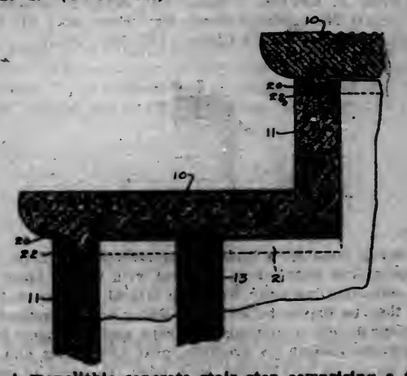
1. In smelting iron ores with solid carbonaceous fuels and preheated air in a blast furnace to produce iron alloys, fuel gas and slag, the process which comprises diverting a limited amount of hot gases and saline vapors from the hot zone of the furnace and introducing the air blast at a temperature below 900° F.

1,756,350. CASH REGISTER. FREDERICK L. FULLER, Ilion, N. Y., assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Original application filed May 23, 1919, Serial No. 299,112. Divided and this application filed Mar. 7, 1927. Serial No. 173,391. 9 Claims. (Cl. 235—130.)



1. In a machine of the class described, the combination of a plurality of sets of depressible keys, a differentially adjustable element adapted to be adjusted to a plurality of positions, a flanged disk appropriate to each of said sets of keys and having notches in the flanges for normally permitting the operation of a key in each set, and means controlled by said differentially adjustable element for adjusting all of said disks, whereby only a key in one set may be operated.

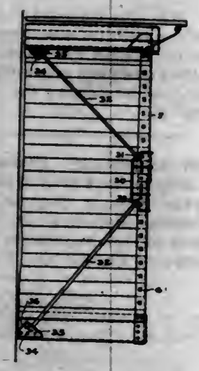
1,756,351. CONCRETE STEP. JOHN GENTILE, Cleveland, Ohio. Filed Oct. 1, 1928. Serial No. 309,409. 4 Claims. (Cl. 72—96.)



1. A monolithic concrete stair step comprising a tread and an integral riser extending upwardly from the tread,

the tread having a rib extending along the bottom surface thereof, and the riser having a groove, said groove being wider and of less depth than said rib, whereby wedging action of the rib against the walls of said groove is eliminated and the weight on each tread is directed vertically onto the adjacent riser.

1,756,352. RAILWAY-CAR CONSTRUCTION. GARTH G. GILPIN, Riverside, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 18, 1929. Serial No. 340,731. 12 Claims. (Cl. 105—411.)



1. In a railway car having upper and lower frame members, the combination of an end wall comprising two metallic plates secured together along a horizontal line, each of said plates provided with a flange adjacent a vertical margin, a member connected to the flange of each plate, and upper and lower diagonal braces, each having one end attached to said member, one of said braces having its opposite end attached to said upper frame member and the other of said braces having its opposite end secured to said lower frame member.

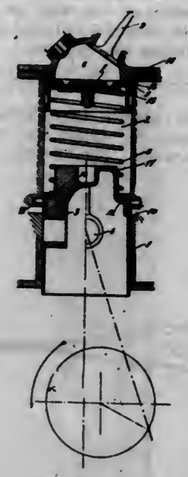
2. In a railway car having upper and lower frame members, the combination of an end wall comprising two metallic plates secured together along a horizontal line, each of said plates provided with a flange adjacent a vertical margin, a member connected to the flange of each plate, and upper and lower diagonal braces, each having one end loosely attached to said member, one of said braces having its opposite end attached to said upper frame member and the other of said braces having its opposite end secured to said lower frame member.

1,756,353. REPAIR SHIM FOR BRAKE LININGS. SAMUEL A. GRUBER, Verona, Pa., assignor of one-half to Hyatt M. Cribbs, Verona, Pa. Filed May 21, 1929. Serial No. 364,770. 1 Claim. (Cl. 188—249.)



A repair shim for a brake lining riveted on a band comprising a thin metal strip provided with spaced apart fingers extending inwardly from one lateral edge so that the shim may be driven between the lining and its supporting band, the fingers straddling the rivets, and the fingers being of sufficient length to protrude past the lining and the band, so as to be clinched back over the band to clamp the shim in place.

1,756,354. INTERNAL-COMBUSTION ENGINE OF THE TWO-STROKE TYPE. CHARLES EMILE HEIBIG, Menecy, France. Filed Aug. 24, 1928, Serial No. 301,870, and in Germany Aug. 31, 1927. 4 Claims. (Cl. 123—66.)



4. An internal combustion engine of the two stroke type, including a cylinder, a lower piston reciprocating therein, an upper piston reciprocating in said cylinder, resilient connecting means between the pistons, an upper exhaust port, a lower admission port, the said cylinder having an expansion groove formed therein to allow the gas between the two pistons to expand during the power stroke, a stop limiting the upward movement of the upper piston, and means carried by the opposing faces of the pistons to provide a cushion effect between them.

1,756,355. METHOD OF AND MEANS FOR PREPARING CORD FABRIC FOR TIRE BUILDING. KIRBY T. HENDERSON, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 14, 1928. Serial No. 306,035. 10 Claims. (Cl. 154—2.)

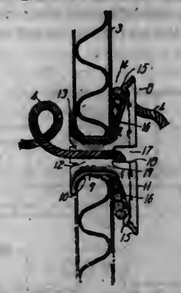


1. The hereindescribed method of splicing plies of tire fabric comprising spacing a portion of the splice away from the surface of one of a pair of rolls between which the juxtaposed plies are passed.

1,756,356. ONE-PIECE EYELET. IRVING HILL, Lawrence, Kans., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans., a Copartnership. Filed Sept. 14, 1928. Serial No. 306,036. 4 Claims. (Cl. 24—141.)

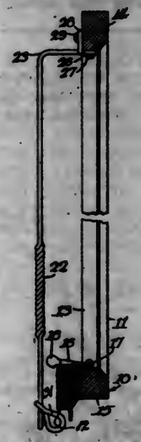
1. In a fastener of the character described, a tubular body having a radial flange at one end for anchoring to a

flap, and a disk at the other end having an opening registering with the opening of the tubular body and radial slots



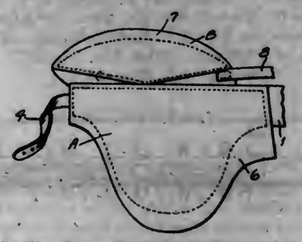
extending from its periphery toward its center, said disk having radially spaced bosses on its under surface extending toward said flange.

1,756,357. WINDOW-OPERATING DEVICE. CHARLES HILMER, Chicago, Ill. Filed Dec. 6, 1928. Serial No. 324,077. 4 Claims. (Cl. 268—134.)



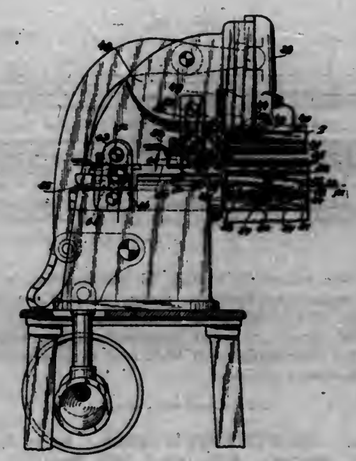
1. In combination, a window comprising an upper and lower sash, a fastening device on the adjacent rails of said sashes for locking said sashes together, an operating device, means for attaching said device to the upper rail of said upper sash, said device extending outwardly and downwardly, a handle on the lower end of said device, and means on said device for engaging said fastening device for holding said upper sash in adjusted position.

1,756,358. COMBINED HIP AND KIDNEY PAD FOR FOOTBALL PLAYERS. WILLIAM A. INGRAM, Jeffersonville, Ind., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 2, 1928. Serial No. 289,808. 12 Claims. (Cl. 2—2.)



1. A protecting device for foot ball players, comprising hip pads, and kidney pads arranged in overlapping relation with said hip pads and pivotally connected intermediate their front and rear ends to said hip pads, thereby producing an articulated structure in which the front end portions of the kidney pads are capable or rocking, upwardly and downwardly relatively to the hip pads.

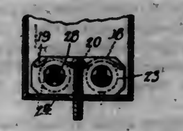
1,756,359. MEANS FOR THE MANUFACTURE OF PAPER BOXES, CARDBOARD BOXES, AND THE LIKE. EMIL JAGENBERG, Dusseldorf, Germany. Filed Sept. 2, 1926, Serial No. 133,112, and in Germany Dec. 3, 1925. 14 Claims. (Cl. 93—56.)



9. In a device of the kind described in combination, a lower supporting die, an upper pressure die, and longitudinally movable sections on said latter die, a knife on said longitudinally movable section, a counter knife, linked to the upper section and cooperating with the other knife, both knives adapted to engage a reinforcing strip, and an additional knife engageable with the lower section and adapted to engage an additional reinforcing strip.

14. A device for attaching reinforcing strips to the corners of boxes comprising, in combination, an anvil and a die movable with relation to each other, guiding means for guiding a pair of separate and superimposed strips between the anvil and die, and means for operating said anvil and die for applying strips to the inside and outside surfaces of the corners of a box disposed between said anvil and die.

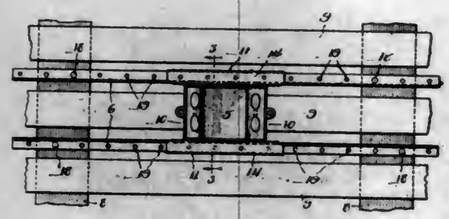
1,756,360. CABLE CLAMP. CHESTER A. JOHNSON, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 28, 1926. Serial No. 89,852. 8 Claims. (Cl. 247—25.)



1. A cable clamp for a box having cable receiving openings therein in one wall adjacent another wall of the box comprising, in combination, a yoke slidable along the first wall toward the second wall, a screw to draw said yoke

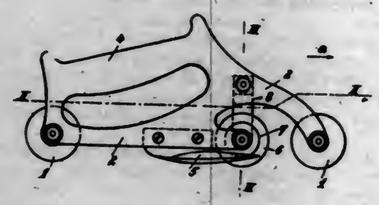
toward the second wall to clamp cables entering said holes, a plate carried on said yoke having an edge against said second wall, said plate having a transverse slot therein, and a lug on the yoke slidable in said slot, said plate having bushing holes therein positioned to bush the ends of cables clamped by said yoke.

1,756,361. OUTLET-BOX MOUNTING. CHESTER A. JOHNSON, Chicago, Ill., assignor to Jefferson Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 11, 1926. Serial No. 134,770. 11 Claims. (Cl. 247—22.)



2. A box mounting having, in combination, a box, a pair of supporting members, means on said box adapted to engage said members to mount said box in one position, and means on said member-engaging means arranged for interengagement with said bars to mount said box in a second position.

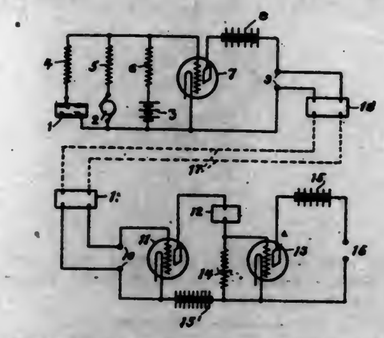
1,756,362. SHEET-METAL CUTTER. HUGO JUNKERS, Dessau, Germany. Filed Oct. 5, 1925, Serial No. 60,696, and in Germany Jan. 8, 1925. 2 Claims. (Cl. 164—84.)



1. A device for cutting corrugated sheet metal comprising a frame, two circumferentially corrugated rollers with parallel axes mounted in line on said frame to support a cutter on and to space same relative to the metal sheet to be cut, a rotary cutting element on one of said rollers and a blade fixed to said frame in cooperative relation with said rotary cutting element and adapted to engage the lower face of the metal sheet.

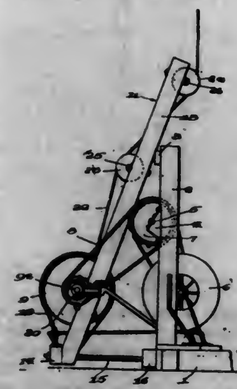
1,756,363. SYSTEM FOR PICTURE TRANSMISSION. MAX KAGELMANN, Berlin-Niederschonhausen, and ADOLF EULENHÖFER, Konigswusterhausen, near Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Filed Apr. 13, 1928, Serial No. 269,738, and in Germany Apr. 23, 1927. 15 Claims. (Cl. 178—53.)

1. A picture transmission system comprising, in combination, a transmitting apparatus for scanning the picture to be transmitted and producing picture currents corresponding to the individual picture elements, means associated with said transmitting apparatus for producing synchronizing current impulses superimposed upon said picture currents and being of a different intensity from said picture currents, a transmission channel for sending said picture currents and said synchronizing currents simultaneously to a receiving station, receiving apparatus for reconstructing the picture operated synchronously with



said transmitting apparatus by said synchronizing currents, and means at said receiving station responsive only to currents of distinct intensity, for separating said synchronizing currents from said picture currents.

1,756,364. ATTACHMENT FOR WELL-DRILLING RIGS. IRA A. KARNS, Wichita Falls, Tex., assignor to Herbert J. Hausler. Filed May 14, 1927. Serial No. 191,350. 4 Claims. (Cl. 254—187.)



1. The combination with a well drilling rig employing conventional draw works having a line shaft, of an auxiliary unit comprising a drum for raising and lowering the swabbing or bailing devices in a well, said drum being rotatably mounted in an auxiliary frame, means for securing said frame to said rig just off the floor thereof and independent thereof, and means whereby said drum is driven from the line shaft of the rig.

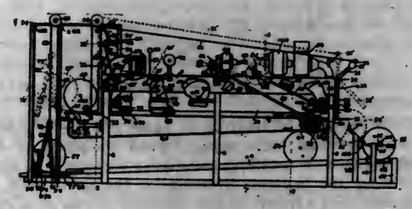
1,756,365. DRAPERY-SUSPENSION FIXTURE. CHARLES W. KIRSCH, Sturgis, Mich., assignor, by mesne assignments, to Kirsch Company, Sturgis, Mich., a Corporation of Michigan. Filed Jan. 31, 1927. Serial No. 164,693. 7 Claims. (Cl. 156—20.)



5. A curtain pole provided with a longitudinal groove, a conventional hollow, longitudinally slotted curtain rod

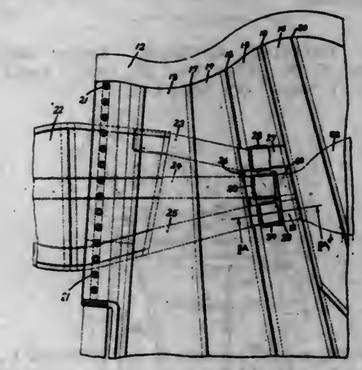
mounted in said groove and having its slotted wall disposed in the mouth of said groove, sheaves and carriers therefor mounted in said groove between the ends of said rod and the ends of said pole, two sets of carriers, each including a master carrier, engaged with the slotted wall of said rod and slidable on the latter, a draw-cord engaged with said sheaves and said master carriers, and drapery suspension devices mounted on said carriers.

1,756,366. LAUNDRY DRIER. ELMER KNUTSEN, Bellingham, Wash. Filed Feb. 25, 1929. Serial No. 342,365. 12 Claims. (Cl. 34—12.)



1. In a laundry drier, a drying chamber having capacity to contain several laundry baskets, a plurality of foraminous cylindrical laundry baskets disposed side by side in said chamber with the axes of said baskets transverse of said chamber, a gudgeon fastened to each end of each of said baskets protruding therefrom in the axis thereof, means applied to said gudgeons to retard their movement through said chamber, means applied to the peripheries of said baskets to cause said peripheries to move faster than said gudgeons in said chamber, and means to cause heated air to pass through said chamber and among and through said baskets.

1,756,367. CORSET CONSTRUCTION. LESTER H. LOEFFEL, New Haven, Conn., assignor to The Berger Brothers Company, New Haven, Conn. Filed Dec. 17, 1927. Serial No. 240,892. 2 Claims. (Cl. 2—27.)



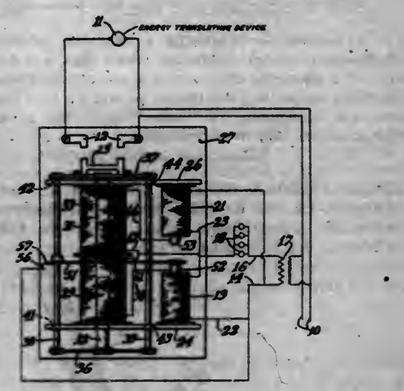
2. In a corset or the like, a one piece body portion, said body portion having a slit within its margins, said slit being intersected at each of the ends thereof by transverse slits forming two adjacent tabs, strips of binding material secured one to each of said tabs, said strips projecting beyond the tabs so as to lie in overlapping relation and providing an opening through the corset body therebetween, said strips of binding material being secured to said body adjacent the ends of said opening.

1,756,368. RESISTOR AND METHOD OF MAKING SAME. SIEGMUND LOEWE, Berlin, Germany, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Sept. 2, 1925, Serial No. 54,081, and in Germany Nov. 6, 1924. 8 Claims. (Cl. 201—75.)



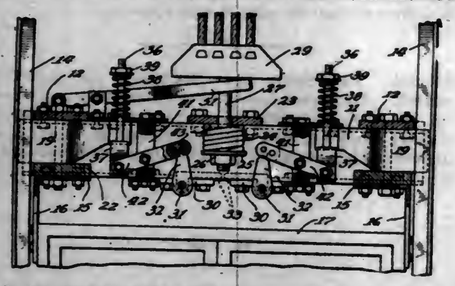
8. A high resistance unit adapted to withstand high temperature without losing its resistivity including a non-conductive rod having the spiralled end of a metallic conductor attached to the surface of each end of said rod, said rod ends being provided with a coating of a concentrated resistance material, the surface of said rod between said ends being provided with a less concentrated coating of said resistance material.

1,756,369. SWITCH-OPERATING APPARATUS. NOLAN C. LOVELL, Birmingham, Ala. Filed Apr. 7, 1928. Serial No. 268,861. 7 Claims. (Cl. 175—375.)



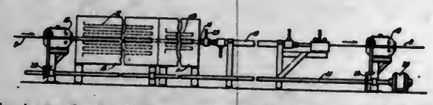
7. In a switch operating mechanism, a low voltage circuit, an electro-magnet in the circuit and energised when the circuit is closed, a solenoid in parallel with the electro magnet, a second electro-magnet energised when the circuit is closed and having an associated solenoid in parallel with the first mentioned electro-magnet and solenoid and opposed thereto, said electro-magnets being in spaced relation, connected movable cores for the solenoids and adapted to reciprocate in the plane of the electro-magnets, contact members carried by the opposed electro-magnets and each connected with its associated solenoid, a flexible armature movable with the solenoids and extending between the opposed electro-magnets to be attracted to the nearest electro-magnet, a contact member carried by the flexible armature to coact with the contact member of the nearest electro-magnet when said electro-magnet is energised, a common wire for the circuits of the two solenoids carried by the flexible armature, a switch operated by the movable cores, and a plurality of push buttons each adapted to complete the low voltage circuit.

1,756,370. SAFETY DEVICE FOR ELEVATORS. CHARLES G. LUEHRMAN, Chicago, Ill. Filed May 27, 1929. Serial No. 366,119. 4 Claims. (Cl. 187—86.)



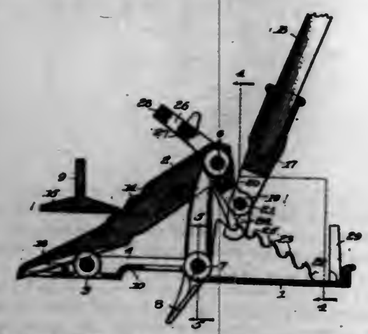
3. An elevator safety device comprising a cross beam, pairs of gripping jaws carried thereby, spring actuated means for actuating said jaws, levers for supporting said springs against operation, crank shafts and dogs for holding said levers, and a lever arm for actuating said crank shafts.

1,756,371. CONTINUOUSLY-LOADED CONDUCTOR. PAUL S. MCCANN, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 6, 1927, Serial No. 203,732, and in Great Britain July 22, 1926. 9 Claims. (Cl. 178—45.)



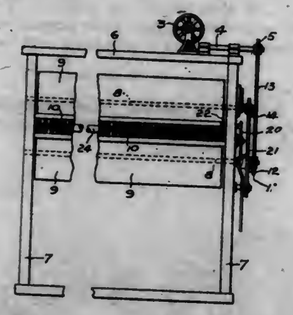
1. A method of improving a magnetic property of a continuously loaded conductor which has a non-adherent layer of a magnetic alloy about a central conductor which comprises subjecting the loaded conductor to a heat treatment and elongating the loaded conductor at any time after it enters said heat treatment.

1,756,372. TRACK LINER. BENJAMIN S. MCCLELLAN, Chicago, Ill., by Kate B. McClellan, conservator, Chicago, Ill. Filed Mar. 4, 1927. Serial No. 172,876. 7 Claims. (Cl. 254—44.)



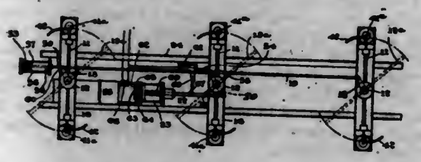
1. A track liner having a substantially flat base, a blade located beneath the base between the ends thereof, said blade being approximately as wide as the base and arranged to extend crosswise thereof, said blade having lugs extending upward through slots in the base, a rock arm on the upper side of the base at said blade and having its lower end rigidly connected to said blade, upright ears on the base at said lugs, an axle member extending through said ears and lugs for pivotally connecting the arm and its blade to the base, a track shifting lever connected to the upper end of said arm, and means for actuating said lever.

1,756,373. METHOD OF TREATING SHINGLES AND THE LIKE. JOSEPH A. MCKERCHER, New Westminster, British Columbia, Canada. Filed Jan. 23, 1928, Serial No. 248,943, and in Canada Nov. 22, 1927. 3 Claims. (Cl. 91—68.)



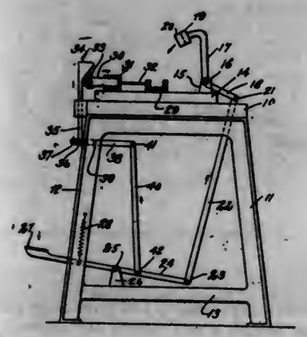
1. The method of treating shingles and the like immediately following their being dipped in paint or stain which consists in brushing the dipper surface in a zig zag manner in the general direction of the grain and then subjecting said surface to the stippling action of a carpet covered roller.

1,756,374. CIRCUIT BREAKER. HUMPHREYS MILLIKEN, Montreal, Quebec, Canada. Filed Feb. 13, 1928. Serial No. 254,052. 12 Claims. (Cl. 200—148.)



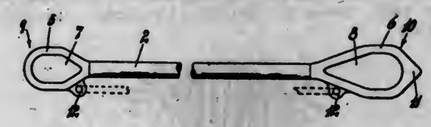
1. In a circuit breaker, a blade normally held between main contacts, hollow supports for said contacts, auxiliary contacts positioned centrally of the hollow supports, horns secured to the blade to frictionally engage with the auxiliary contacts before and after the blade is moved clear of its contacts, and means to supply air through the hollow supports to completely surround the auxiliary contacts to prevent burning of same when the circuit through the horns is broken.

1,756,375. LOLLIPOP MACHINE. MORRIS MILLION, Brooklyn, N. Y. Filed Dec. 22, 1928. Serial No. 327,883. 1 Claim. (Cl. 107—8.)



A lollipop making machine comprising a table, a platform carried by said table and supporting a bracket, a bell-crank lever having its apex fulcrumed on said bracket, a knife holder carried by the upper end of the forwardly and downwardly bent arm of said bell-crank lever, a plurality of knives held in said holder, an operating lever pivoted to the lower end of the other arm of said bell-crank lever, a foot operated lever for moving said operating lever upward to lower said knives, a substantially U-shaped trough on said platform within the path of said knives, adapted to receive the candy, to be cut upon the lowering of said knives, said trough having a plurality of slots in its front wall allowing the introduction of sticks to be combined with the cut candy in said trough and lifting therefrom, a sliding plate having a plurality of transverse channels formed therein for the reception of the sticks, a guide for said plate, a roller carried by the front edge of said plate, and an operating member having a cam face wider on top and narrow below adapted to engage upon its downward movement the roller to move said plate forward and press the sticks thereon into the candy in said trough, a downwardly directed stem on said member, and a means for connecting said stem with the foot operated lever allowing a feeding of the sticks against the candy simultaneously with the operation of the knives for embedding the sticks into the candy after cutting the same by said knives.

1,756,376. METHOD OF MAKING WELDLESS ELEVATOR LINKS. GEORGE W. MOORE, Long Beach, Calif., assignor to R. E. Moore, Piedmont, Calif. Filed Nov. 18, 1927. Serial No. 234,228. 4 Claims. (Cl. 29—148.)



1. A method of forming a weldless elevator link which consists in rolling a bar of uniform cross sectional diameter into a section of reduced central diameter, both ends remaining the same dimension in cross section as the original bar, then flattening the ends and then cutting apertures in both ends to form eyes.

1,756,377. FIELDER'S GLOVE. ELMER NOLTE, St. Louis, Mo., assignor to Rawlings Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 14, 1926. Serial No. 141,511. 5 Claims. (Cl. 2—19.)



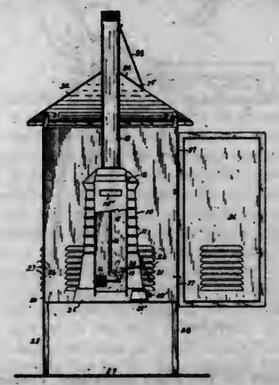
5. A baseball glove or mitt provided with a thumb, an index finger or corresponding portion, and a web consisting of a relatively wide member arranged transversely of the space between said parts, with its bottom edge spaced away from the crotch between said thumb and finger, the top edge of said web being cupped forwardly so as to overcome the tendency of a ball to slide upwardly out of the pocket formed by said web, thumb and index finger.

1,756,378. APPARATUS FOR CLEANING CONDENSER TUBES. WILLIAM F. OBERHUBER, East Lansdowne, Pa. Filed July 3, 1922. Serial No. 572,570. 5 Claims. (Cl. 15—104.06.)



1. A rubber slug for use in cleaning condenser tubes by passage through the tubes and scraping engagement with their walls having a free central longitudinal passage to allow pressure discharge of the fluid through it.

1,756,379. HEATER FOR POULTRY HOUSES AND ANALOGOUS PURPOSES. JOHN B. OLSON and RUBY R. YOUNG, Fort Atkinson, Wis., assignors to James Manufacturing Company, Fort Atkinson, Wis. Filed July 5, 1927. Serial No. 203,468. 4 Claims. (Cl. 126—58.)



1. A poultry house heater having in combination a portable casing provided with a roof spaced therefrom and a closed bottom, legs supporting said casing, a stove mounted on said bottom and having a smoke pipe extending through said roof, a ventilating flue outside of said stove and communicating with said pipe, the lower portion of said flue being spaced from said bottom, and the sides of said casing having openings positioned above the lower end portion of said ventilating flue in order to insure means for continuously ventilating the heater.

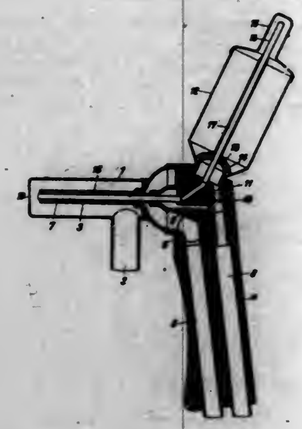
1,756,380. RUBBER MAT. GEORGE S. OSBORN, Hartford, Conn. Filed Mar. 22, 1928. Serial No. 263,737. 10 Claims. (Cl. 154—49.)



8. A rubber floor covering comprising a sponge rubber body having its top of open cellular structure presenting

an exposed sponge rubber tread and having rind on its bottom and sides and a border united to said side rind, said border also having an exposed cellular sponge rubber top and outer side.

1,756,381. APPARATUS FOR THE PRODUCTION OF MOLTEN LIQUID, COATS OF ENAMEL, GLASS, AND THE LIKE BY SPRAYING UPON METAL, STONE, OR OTHER SURFACES OR BODIES. AUGUST PAHL, Berlin-Wilmersdorf, Germany. Original application filed Jan. 28, 1927, Serial No. 164,827, and in Germany Feb. 25, 1925. Divided and this application filed June 25, 1927. Serial No. 201,495. 3 Claims. (Cl. 91—12.2.)



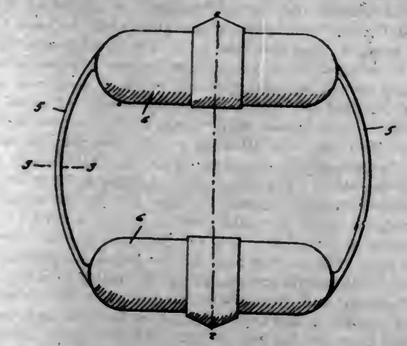
1. Apparatus of the class described, comprising a container, a duct to discharge powder from the container, said duct having an intake end at an elevated point in the container and above the lever of the powdered material in the container, a burner tube in which the discharge end of the first named duct is arranged, said burner tube having a gas intake and also having a discharge opening, a duct for compressed air leading to the lower portion of said container and provided with a controlling valve, a duct in the burner tube arranged around and spaced from the discharge portion of the first named duct and a duct for compressed air leading to the inner end of the last named duct, the discharge ends of the last named duct and of the powder discharge duct being opposite the discharge, burner opening, of said burner tube.

1,756,382. GLUE PRODUCT. GUSTAV PALME, Strehla-on-the-Elbe, Germany. Filed Jan. 16, 1928. Serial No. 247,047. 1 Claim. (Cl. 87—7.)



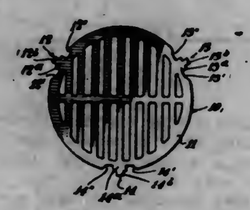
A glue product having the form of a polygonal shaped body, the area of which does not substantially exceed the size of a finger nail, having a plurality of edgewise projections that are reduced in width toward their free ends to provide a series of edges which will aid a user in determining the quality of the product.

1,756,383. SWIMMING TUBE. WILLIAM B. PETZ, Plymouth, Mich. Filed Apr. 20, 1929. Serial No. 356,729. 2 Claims. (Cl. 9—17.)



1. A device of the class described comprising a continuous tube, having oppositely disposed flap like portions and the remaining oppositely disposed portions inflatable, said flap like portions having their walls extending together completely closing the ends of said inflatable portions, air valves in the inflatable portion.

1,756,384. GRATE FOR STOVES AND THE LIKE. MADISON RUSSELL PORTER, New York, N. Y. Filed May 25, 1928. Serial No. 280,415. 13 Claims. (Cl. 126—59.5.)



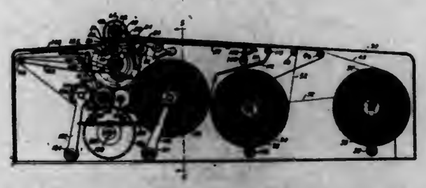
1. A grate for stoves and the like comprising a main grate body provided with a plurality of elongated lugs to receive removable leg members and to be received by apertures in a removable main stove body member, each of said lugs being provided with a recess on each side thereof to permit each of the leg members to be brought into binding position with respect to the main grate body.

1,756,385. PRONGED FASTENER. HENRY V. RAU, Brooklyn, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Filed Sept. 24, 1927. Serial No. 221,712. 2 Claims. (Cl. 248—22.)



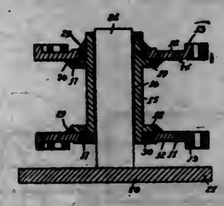
1. In combination, a flat member, a pronged fastener secured to the member, the fastener comprising a body, prongs extending in the same direction from the body on its opposite sides, one of the prongs extending through the flat member and being curved into a hook extending beyond the body of the fastener, the second prong passing through the flat member and being bent in the same direction as the first prong and engaging the flat member to hold the fastener in place on the member.

1,756,386. AUTOGRAPHIC REGISTER. WILLIAM H. ROBERTSON, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Jan. 17, 1927. Serial No. 161,588. 12 Claims. (Cl. 282—16.)



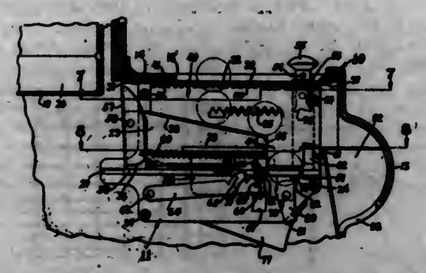
1. In an autographic register, the combination of a record strip supply roll, a record strip receiving roll, a feed roller engaging the periphery of the record strip supply roll to unwind the record strip, a gear connected with said roller, a feed roller engaging the periphery of the record strip receiving roll to wind the record strip onto the receiving roll, a second gear connected with the second mentioned roller driving means for said feed rollers including a gear meshing with both of the above mentioned gears, a power gear, and a friction device between the power gear and one of the feed rollers, and resilient means for holding the feed rollers against the supply and receiving rolls.

1,756,387. MACHINE FRAME. GEORGE T. RONK, Cedar Rapids, Iowa. Filed May 8, 1928. Serial No. 275,905. 3 Claims. (Cl. 219—10.)



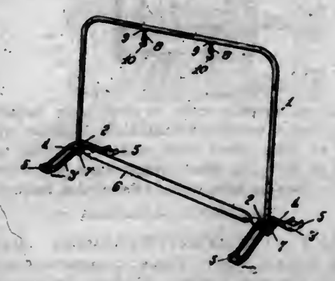
1. A machine frame comprising a pair of parallel and spaced plates, each having sleeve receiving openings, a sleeve supported in each set of corresponding openings, each sleeve having circumferential flanges supported adjacent to the inner faces of said plates, said openings being larger than the sleeves and smaller than the flanges to form annular grooves about said sleeves, the sleeves and plates being welded together to form an integral frame.

1,756,388. COIN-CONTROLLED MECHANISM. WILLIAM H. ROWE, Los Angeles, Calif. Filed Mar. 23, 1929. Serial No. 349,378. 12 Claims. (Cl. 194—58.)



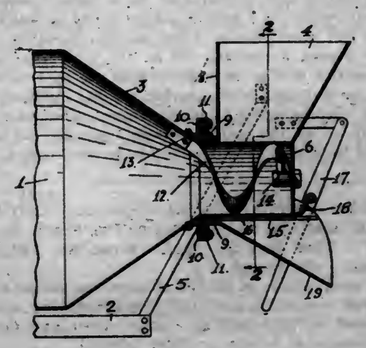
1. In a coin actuated plunger, a housing including spaced side plates, a plunger movable between said side plates, a pair of locking dogs, each of said dogs including an upwardly projecting lip adapted to normally engage said plunger to prevent movement of said plunger and a cam surface on the upper portion of said dogs to engage a coin.

1,756,389. SIGN-SUPPORTING FRAME. CHRISTIAN SCHNEIDER, Chicago, Ill. Filed Apr. 3, 1929. Serial No. 352,076. 3 Claims. (Cl. 40—125.)



1. A sign support comprising supporting members each consisting of a piece of conventional channel-bar having a flat middle portion and flat end portions, the middle portion being offset upwardly from the end portions and provided with a central opening, an inverted U-shaped sign supporting member having threaded extremities adapted to pass through said openings, a collar on each of said threaded extremities having flat side faces adapted to engage the flanges of the supporting members to hold the latter in predetermined position relatively to the U-shaped member and to rest upon the middle portions of said supporting members to support said U-shaped member thereon, and nuts on the extremities of the latter below the middle portions of said supporting members for rigidly clamping the latter against said collars.

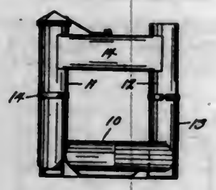
1,756,390. CONCRETE MIXER. PETER F. SCHNEIDER, San Francisco, Calif., assignor to Transit Mixers, Inc., San Francisco, Calif., a Corporation of Nevada. Filed June 22, 1929. Serial No. 372,944. 8 Claims. (Cl. 83—73.)



1. A mixing machine comprising a mixing member; a material-feeding member having one opening in communication with the mixing member and another opening communicating with the exterior; a conveying member within the feeding member adapted to selectively direct the material through either opening; and means for controlling the opening to the exterior.

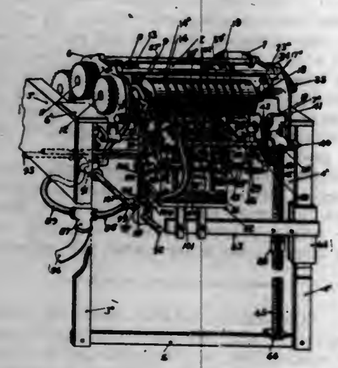
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1,756,391. OIL-BURNING STOVE. CLAUDE SIEBRING, George, Iowa. Filed June 7, 1929. Serial No. 369,083. 12 Claims. (Cl. 126—93.)



1. In an oil burning stove, a stove body including upright flues and a winding combustion chamber connecting said flues at their lower ends, and a combined tank and brace united with the flues intermediate their ends, portions of the flues forming end walls of said tank.

1,756,392. ZIGZAG-PILE-FORMING MACHINE. WALTER HAROLD SMITH, Toronto, Ontario, Canada, assignor to Business Systems Limited, Toronto, Canada, a Corporation of Canada. Filed Feb. 23, 1929. Serial No. 342,255. 16 Claims. (Cl. 270—39.)



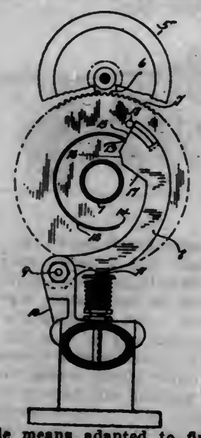
1. In a zigzag pile forming machine, a pair of web feeding rollers each provided on its periphery with a longitudinal groove and with a diametrically opposite longitudinal and radial recess, a bar member movable radially in each recess, a creasing rib on the outer face of each bar normally within the periphery of the feed roller, and means for automatically carrying the bar outward as the rib and corresponding opposing groove come to a meshing position as the rollers revolve, whereby the web interposed between the feed rollers is pinched into a crease.

1,756,393. COMPOSITION BLACKBOARD AND METHOD OF MAKING SAME. FOSTER DEE SNELL, Brooklyn, N. Y. Filed Dec. 23, 1927. Serial No. 242,293. 9 Claims. (Cl. 35—15.)

1. A composition of matter adapted for use as a blackboard and comprising a vitreous matrix having uniformly distributed therethrough an opaque, inert and finely divided, somewhat harder granular mineral.

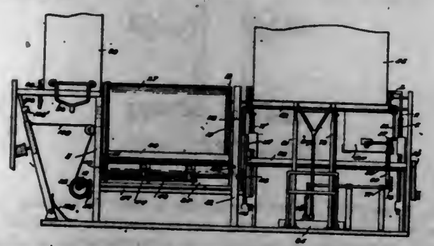
1,756,394. BOILER CLEANER. NORMAN L. SNOW, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 19, 1924. Serial No. 714,513. 16 Claims. (Cl. 122—392.)

1. In a boiler cleaner, the combination with a rotatable blower element, of a valve for controlling the admission of cleaning fluid thereto, a pivotal lever for actuating said valve, said lever being formed with a free end provided with an offset face said lever being further provided with a second face in the normal plane of the



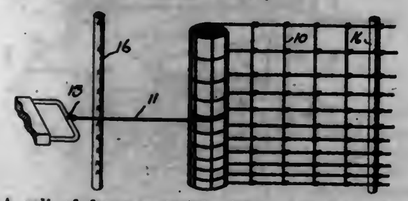
lever, and movable means adapted to first engage said offset face to open said valve and to then engage said second named face to maintain the valve in open position.

1,756,395. DUPLICATING MACHINE. ROBERT E. L. SPENCE, Jr., Miami, Fla. Filed Oct. 7, 1927, Serial No. 224,699. Renewed Nov. 16, 1929. 7 Claims. (Cl. 101—52.)



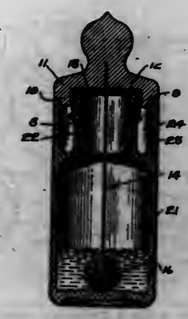
1. In a machine of the class described, in combination, a revoluble printing drum having a body form and an opening for a separable address form, and means for replacing the address form in said opening after each printing movement of the drum, said means including a form holding member which is adapted to move radially as the drum rotates, and a device for feeding a chain of address forms longitudinally through the drum, the forms being successively engaged by the movable form holding member.

1,756,396. FENCE MATERIAL AND METHOD OF MAKING THE SAME. CLARENCE WINFRED SPICER, Plainfield, N. J. Filed July 17, 1928. Serial No. 293,439. 3 Claims. (Cl. 206—59.)



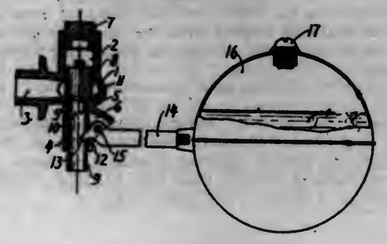
1. A roll of fence material with a separate pull wire rolled longitudinally of the fence material whereby the fence material will be unrolled when the pull wire is pulled.

1,756,397. BOTTLE FOR CONTAINING FLUIDS. JOHN H. SPOHN, Jr., San Francisco, Calif. Filed July 25, 1927. Serial No. 208,105. 1 Claim. (Cl. 215—43.)



A bottle for containing liquids comprising a container having a cylindrical neck, threads on said neck, a cylindrical wall spaced from said neck and joined to said container to form a cup, a closure for said container and said cup comprising a cap adapted to engage the threads on said neck to seal said container, and a handle secured to said cap, said handle having an annular fillet portion depending into said cup and engaging said container whereby said cup is sealed simultaneously with the sealing of said container.

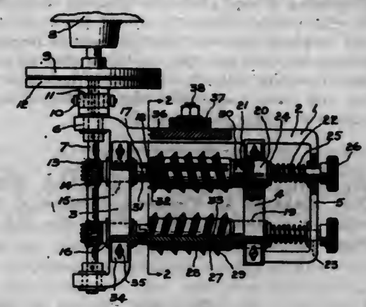
1,756,398. FLOAT VALVE. SVERRE JOHAN STEENSEN, Oslo, Norway. Filed July 16, 1927, Serial No. 206,334, and in Norway Nov. 1, 1926. 2 Claims. (Cl. 137—104.)



2. In a float valve a casing having a cylinder chamber, a supply branch leading to said chamber and a delivery tube leading from said chamber, a valve in the casing comprising a piston arranged for movement in the said chamber and having a delivery tube arranged for movement in the delivery tube of said casing and provided with a port at the end attached to the piston, a float and a float lever pivoted to the casing and having a nose extending into an opening in one side of the discharge tube of the valve.

1,756,399. SAW-SHARPENING DEVICE. JONATHAN ROBERT STOWELL, Vancouver, British Columbia, Canada. Filed June 13, 1928. Serial No. 285,174. 4 Claims. (Cl. 76—38.)

1. A saw sharpening device comprising a frame, a pair of helically threaded cutting elements rotatably mounted in the frame, a horizontal bearing carried by the frame in elevated relation thereto, a horizontal saw arbor longi-

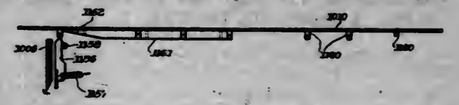


tudinally slidable in said bearing and coacting means carried by the arbor and bearing for securing the arbor in different positions of adjustment.

1,756,400. LIGHT-SENSITIVE MATERIALS AND PROCESS OF MAKING THEM. MAXIMILIAN PAUL SCHMIDT and WILHELM KRIEGER, Wiesbaden-Biebrich, Germany, assignors to Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Filed Jan. 28, 1928, Serial No. 250,326, and in Germany Feb. 22, 1926. 24 Claims. (Cl. 95—7.)

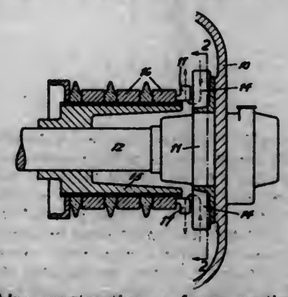
1. The process of preparing light-sensitive materials, which consists in incorporating a stable diazo compound into a solution of a cellulose derivative the hydrogen atom of at least one hydroxyl group of which is substituted.

1,756,401. TABULATOR. OSCAR J. SUNDSTRAND, Rockford, Ill., assignor to Sundstrand Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 23, 1928. Serial No. 294,769. 4 Claims. (Cl. 197—176.)



4. In a cross-tabulator, a member having stops defining successive columnar positions, an escapement for said member, a bar on said member, said bar having a dwell portion extending across the face between stops defining a plurality of columnar positions, and manually operable means to lift said bar and thus free said member from the control of said escapement.

1,756,402. COOLING ARRANGEMENT FOR MACHINE BEARINGS. PHILIPP SUTER, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Jan. 25, 1926, Serial No. 83,502, and in Germany Feb. 2, 1925. 1 Claim. (Cl. 308—77.)



In machine construction, a frame portion, a bearing including a portion carried by said frame portion, a shaft

journaled in said bearing, said bearing portion being provided with fins extending radially with respect to the axis of rotation of said shaft and disposed on the interior side of said frame portion, a slip ring carried by said shaft for rotation therewith and disposed in proximity to said bearing portion, and fan blades carried by said slip ring and extending laterally outwardly therefrom toward said fins and being cooperable with the latter to induce air circulation within said machine.

1,756,403. METHOD OF ELECTRICALLY WELDING PIPES. CHARLES M. THOMSON, Westmount, Quebec, Canada. Filed Jan. 18, 1929. Serial No. 333,372. 3 Claims. (Cl. 219—6.)



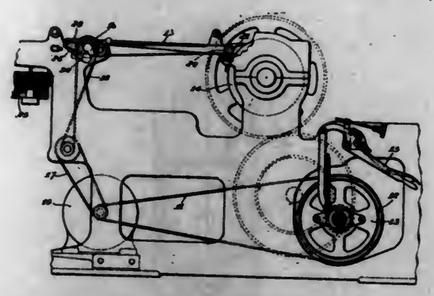
1. The method of making welded pipe which consists in bending upwardly the sides of a strip of skelp to form a channel, thickening the upturned edges, gradually bringing the edges of the skelp into abutting relation placing a welding strip in the groove between the adjacent edges and electrically welding the strip and the edges of the skelp so that the weld does not quite penetrate the pipe wall, but makes the depth of the weld substantially the thickness of the skelp.

1,756,404. BROOM. JOURNEY FRANKLIN TIMBERLAKE, Charlottesville, Va. Filed June 15, 1929. Serial No. 371,203. 4 Claims. (Cl. 15—173.)



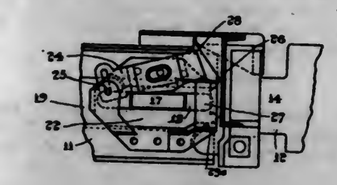
1. In a broom of the class described, a handle, a holder carried by said handle and including a socket for accommodating the handle, an open ended bridle, a bow attached to the end portions of said bridle, and a connection between said socket and the central portion of said bow, said central portion of the bow having an opening formed therein, a hanger including a suspension rod member arranged in said bridle, a central bolt passing through said opening, and a thumb nut carried by said bolt and confined within said connection.

1,756,405. PRINTING-PRESS DELIVERY. BURT F. UPHAM, Brookline, Mass., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 27, 1927. Serial No. 163,012. 1 Claim. (Cl. 101—280.)



The combination with a printing couple and a variable speed driving means for the same, of a continuous conveyor device for delivering sheets from said couple and constant speed driving means for said device.

1,756,406. DRAWBAR-KEY SAFETY DEVICE. ERNEST R. VIBERG, Montreal, Quebec, Canada. Filed Feb. 7, 1925. Serial No. 7,648. 7 Claims. (Cl. 213—50.)



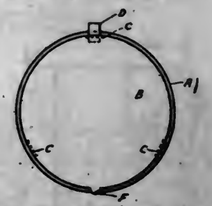
6. Draft key retaining means including a bracket for engagement to the center sill and provided with a passage therethrough aligned with the draft key slot in the sill, and means on the bracket for positioning across said passage.

1,756,407. OIL STILL. ARNOLD CHARLES VOBACH, Whiting, Ind., and EUGENE C. HERTHEL, Chicago, Ill., assignors to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed Feb. 12, 1927. Serial No. 167,712. 5 Claims. (Cl. 196—116.)



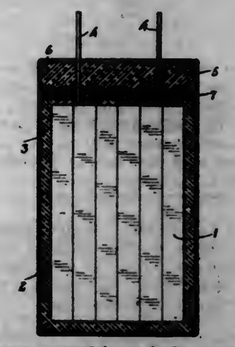
4. In an oil cracking still a furnace having a heating flue connected at one end to a fire-box and at the other end to a stack flue, a battery of heating tubes connected in multiple arranged in and extending through the heating flue in the furnace, a still drum and connections including a pump for circulating oil therefrom through the heating tubes of the battery in multiple and back to the still drum, and cores located and extending through the heating tubes in the said heating flue except those first exposed to the heating gases from the firebox and those last exposed to the heating gases passing from the heating flue to the stack flue.

1,756,408. COMBINATION POWDER PUFF AND CLEANSER. JAMES T. WALKER, Pelham, and HARRY O. WEITLICH, New Rochelle, N. Y., assignors to W. S. T. Sani-Products Corp., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 16, 1928. Serial No. 312,798. 4 Claims. (Cl. 132—78.5.)



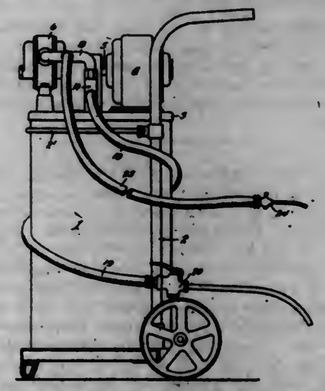
1. In a combination powder puff and cleanser, a body member, a plurality of removable leaves interposed one upon another and attached to said body member by a plurality of stitches near the margin, the exposed side of the body member constituting a powder puff.

1,756,409. TOP-SEALING PROCESS. ARTHUR J. WEISS, West Orange, N. J., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 4, 1927. Serial No. 210,560. 8 Claims. (Cl. 175—41.)



1. A condenser comprising a body, a container therefor, a filler of easily fusible material, a less readily fusible compound for sealing the container, and a layer of heat insulating material having a melting point intermediate that of said filler and that of the compound for sealing the container.

1,756,410. FLUSHING AND CLEANING DEVICE. AUSTIN L. WERTZ, Cleveland, Ohio. Filed Mar. 19, 1927. Serial No. 176,825. 17 Claims. (Cl. 184—1.5.)



1. In a device of the class described, a tank, a pump, an intake pipe for said pump leading into said tank, a discharge conduit leading from said pump, a container arranged within said tank and into which said conduit discharges, said discharge conduit having a vertically disposed portion, an injector arranged within said vertically disposed portion, a connection leading from said vertically disposed portion and in open communication with said injector, said container having an opening therein connecting the same with said tank.

1,756,411. DRY MOLDING. WILLIAM B. WESCOTT, Boston, Mass., assignor to Rubber Latex Research Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1927. Serial No. 239,215. 16 Claims. (Cl. 18—55.)

4. In the manufacture of rubber articles, the process which comprises compounding a mass of fillers including fibers with preserved latex, admixing with the latex ingredients to prevent tackiness of the subsequently dried material, drying the compounded mass to form an agglomerated body, dividing the dried material into loose fibers carrying rubber derived from the latex, said fibers being non-tacky, shaping the divided fibers into the desired form and thereafter vulcanizing with the aid of heat and pressure.

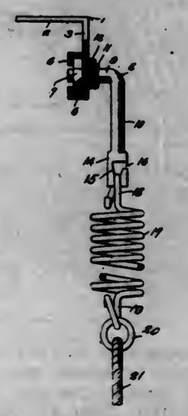
16. As a new composition of matter for producing molded rubber articles, a mass of loose shredded asbestos fibers coated with unvulcanized non-tacky rubber from latex gelled in situ.

1,756,412. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 8, 1930. Serial No. 419,371. 2 Claims. (Cl. 24—95.)



1. A button comprising a body shell, a hard metal insert in said shell, a soft metal extruded cap, the said cap having a peripheral rim pressed about the said body shell to thereby form a non-separable unit.

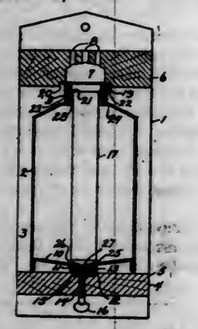
1,756,413. BALL-BEARING SWING HINGE. NORMAN H. WILKE and JOHN J. WILKE, Toledo, Ohio. Filed July 3, 1928. Serial No. 290,216. 2 Claims. (Cl. 248—64.)



2. In a swing hinge, a bracket including a substantially vertical flange, an anti-friction bearing, and means for mounting the bearing on one side of the flange, the bearing

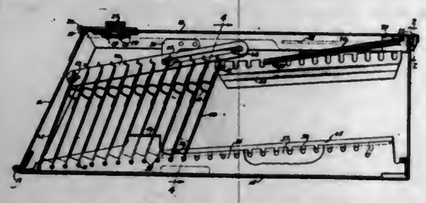
including a collar extended through the flange and journaled therein, a suspension member including a shank and a shaft disposed at an angle to each other, the shaft extending through the collar and into the bearing, and a fastening device located on the opposite side of the flange from the bearing and passing through the collar and the shaft.

1,756,414. FUMIGATING DEVICE. CAREY CARTER WINCHESTER, Brookhaven, Ga., assignor to National Cedarchex Corporation, Fulton County, Ga., a Corporation of Georgia. Filed Apr. 14, 1928. Serial No. 270,134. 8 Claims. (Cl. 299—20.)



1. A disinfecting device including a holder, having spaced lateral projections, a container for a disinfecting substance adapted to be inserted between and supported by said projections, a tube constituting a chamber adjustably inserted within the container open at its upper end and having an aperture in its lower end, establishing communication with said container, spring means engageable with said tube and container to maintain the tube and container in operative position with respect to the projections, and means carried by the holder to adjustably engage the perforation in said tube to control the flow of the fumigating substance from the container into said tube.

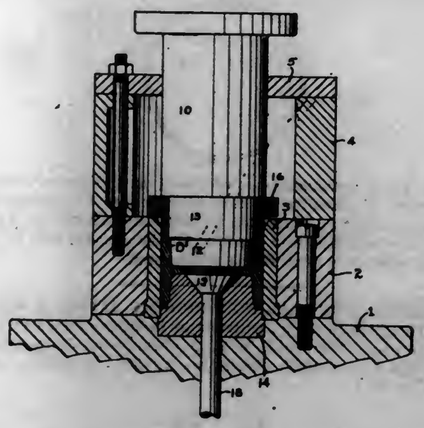
1,756,415. CREDIT FILE. RODNEY J. WOOD, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Jan. 12, 1923. Serial No. 612,182. 9 Claims. (Cl. 45—2.)



2. In a filing device, a plurality of file units, a plurality of overlapping swinging members attached to each file unit to retain sales slips, and swinging indicating means located behind certain of said swinging members to coact with and swing relatively to the next succeeding swinging member for separating temporarily filed sales slips from permanently filed slips.

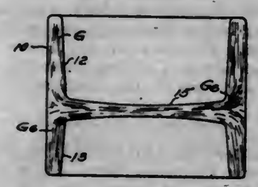
1,756,416. PROCESS FOR MAKING PIPE COUPLINGS. HARRY WOODHEAD, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 28, 1924. Serial No. 752,610. 9 Claims. (Cl. 29—156.)

1. The process of forming large pipe couplings having inside tapered wall conforming to the pipe thread taper, consisting of heating a metal billet, placing the billet within a cylindrical female die and squeezing it between a pair of accurately aligned male dies so shaped as to first squeeze the center of the billet, forcing the metal laterally and radially, stopping the lateral flow by the cylindrical surface of the female die and turning metal outwardly along



the conical sides of the male dies and continuing this squeezing until the space between the male and female dies are substantially filled and thereafter shearing out the web between the tapered surfaces thus formed on the interior of the double cupped wall leaving a substantially cylindrical member with the taper as described.

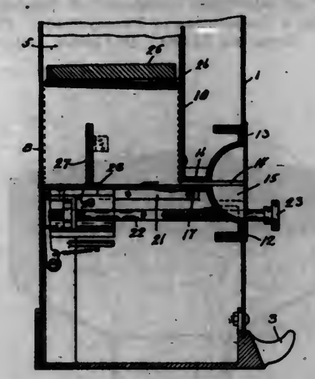
1,756,417. PIPE COUPLING. HARRY WOODHEAD, Cleveland, Ohio, assignor to The Midland Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 7, 1926, Serial No. 79,785. Renewed Mar. 10, 1930. 5 Claims. (Cl. 285—203.)



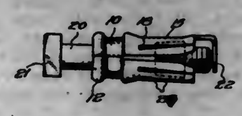
1. A pipe coupling of the character described, consisting of a seamless forged cylindrical member of steel or the like, having its structure nodules elongated and so positioned as to form a grain, and threaded nearly full length substantially uniformly transversely to said grain throughout.

1,756,418. ENVELOPE-DISPENSING MACHINE. HAROLD B. WOODS, Hudson, Mass., assignor, by mesne assignments, to Consolidated Automatic Merchandising Corporation, a Corporation of Delaware. Filed Jan. 8, 1927. Serial No. 159,967. 7 Claims. (Cl. 312—56.)

1. An envelope dispensing machine comprising a support for a stack of envelopes arranged flap down, a separator reciprocally movable beneath the stack and having a flat horizontally disposed finger projecting forwardly at each end of said support and arranged to be passed between the flap and body of the bottom envelope in the stack at each end thereof as the separator is moved forwardly, said fingers having aligned end faces for engagement with the bottom of the fold between the flap and body and having their under sides beveled to the adjacent ends of said faces to form a relatively sharp corner portion for separating the flap from the body preliminarily.

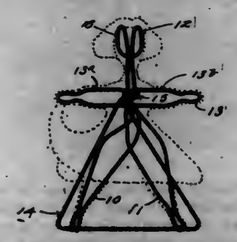


1,756,419. EXPANSION SHIELD. LOTHAR R. ZIFFERER, Columbia, Pa. Filed Sept. 9, 1927. Serial No. 218,473. 3 Claims. (Cl. 85—2.4.)



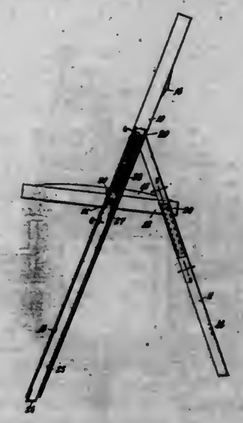
2. An expansion shield comprised of two complemental substantially semi-cylindrical sheet metal sections formed to provide an expansible cylindrical body having internal longitudinal ribs substantially parallel to the axis of the body and inclined inwardly from the inner end of the shield, and a non-circular expander movable longitudinally of the shield in engagement with said ribs and adapted to direct a radial force thereupon, and other longitudinally disposed internal ribs cooperating with the expander for guiding and preventing relative rotation of the same, said last named ribs extending longitudinally at an angle relative to said first mentioned ribs.

1,756,420. EFFIGY. FLORA BIRUM BAKER, Grants Pass, Oreg. Filed Dec. 6, 1927. Serial No. 238,130. 1 Claim. (Cl. 46—40.)



A frame for an effigy comprising angularly related lower loops having constricted lower portions and having their upper middle portions widened and gradually decreasing in width in the direction of their upper and lower ends, a third lower loop arranged in rear of said first loops and connected at its upper end to the upper ends thereof, an upper loop extending upwardly from the upper ends of said lower loops and having its upper end portion bent back upon itself, and loops extending horizontally and in opposite directions beyond the juncture of said upper and lower loops and having constricted outer ends.

1,756,421. COLLAPSIBLE CHAIR. WILLIAM J. BAUMS, New York, N. Y., assignor to Project Holding Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1927. Serial No. 225,439. 7 Claims. (Cl. 155—142.)



7. A collapsible chair, comprising a pair of front legs and a pair of rear legs pivotally secured to each other, a seat swingably carried by the one pair of legs and pivotally and slidably secured to the other pair of legs, and means movable relatively to one of said pairs of legs for imparting a rotary movement to the said seat and including members projected beyond the lower extremities of said latter pair of legs when the chair is collapsed.

1,756,422. SPRINKLER TOP FOR CONTAINERS. CLARENCE P. COOK, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 20, 1927. Serial No. 227,379. 1 Claim. (Cl. 215—48.)

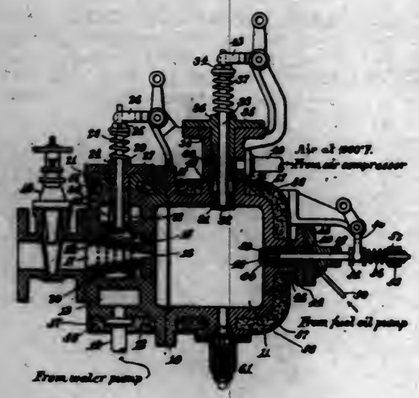


In a dispensing device of the character described, a bottle or the like and a stopper therefor, said stopper being of cork or like material, and having associated therewith a sprinkler device by which a relatively small amount of the liquid contents of the bottle may be distributed through the cork when in position on the bottle, means for securing the sprinkler device to the cork, said cork and associated sprinkler device being freely removable from the bottle and replaceable thereon as a whole without injury to the cork, so that a relatively large amount of the liquid contents of the bottle can be distributed through the bottle neck.

1,756,423. PRESSURE-FLUID GENERATOR. JOHN T. DALCHER, Bayonne, N. J. Filed June 23, 1925. Serial No. 39,050. 4 Claims. (Cl. 60—46.)

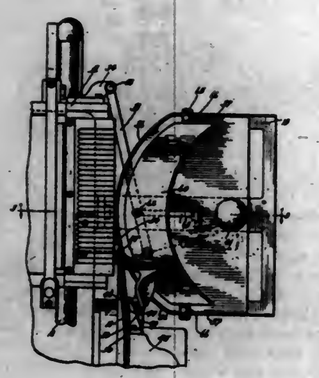
3. In a device of the class described, the combination of a combustion chamber, means for admitting highly

heated compressed air into said chamber, means for admitting fuel-oil into said chamber, a perforated nozzle communicating with the interior of said chamber, a water-



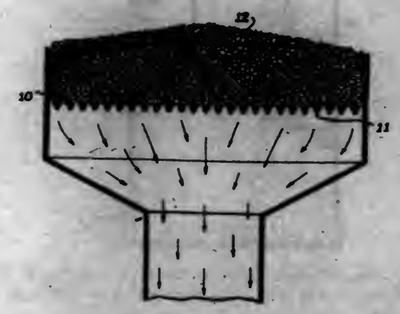
jacket around said nozzle and in communication with the perforations thereof, a water-chamber, and a valve operable to establish and interrupt a communication between said water-jacket and water-chamber.

1,756,424. SLICE RECEIVER AND COLLECTOR. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Aug. 16, 1926. Serial No. 129,826. 27 Claims. (Cl. 146—94.)



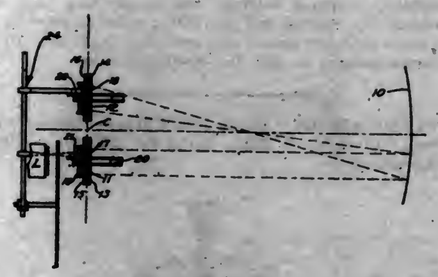
1. The combination with a slicing machine having a slicing knife, of a receiver for slices formed by said machine, and means for adjusting said receiver both downwardly and bodily horizontally away from the slicing knife to accommodate and stack additional slices one upon the other as they are deposited thereon.

1,756,425. CALCINED BAUXITE AND METHOD OF PRODUCING SAME. FRANCIS C. FRARY, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 19, 1925. Serial No. 38,284. 10 Claims. (Cl. 75—58.)



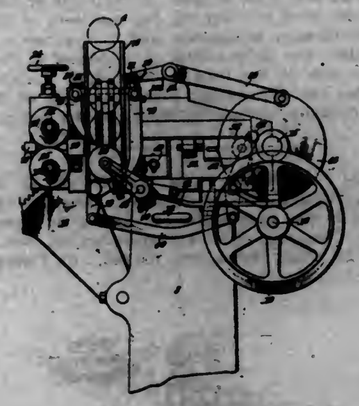
1. Process of calcining bauxite, comprising crushing the bauxite, and by the substantially complete combustion of carbonaceous fuel mixed therewith heating the bauxite and by such heating driving off free and combined water and without substantial reduction of non-aluminous material fitting the pieces of bauxite together to a coherent coarsely porous mass substantially free from carbon.

1,756,426. PHOTOGRAPHIC PRINTING. FRANK E. GARBUTT, Los Angeles, Calif. Filed Nov. 28, 1927. Serial No. 236,140. 2 Claims. (Cl. 88—24.)



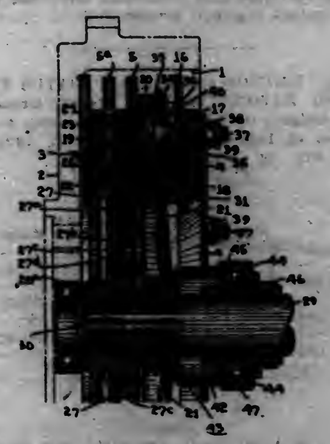
1. In a system of optical printing of motion picture film, the combination of a real image forming mirror, interconnected and synchronously driven means for moving a film strip having a series of developed images thereon and a raw film strip side by side in opposite directions in planes located on the same side of the said mirror and through substantially equal conjugate foci thereof, an aperture plate between said developed film strip and said mirror having an aperture through which a limited portion of the image area of the moving developed film strip is visible from the said mirror, and means for illuminating the image area of the developed film strip at the aperture whereby a real image thereof will be formed and printed by said mirror upon a corresponding portion of said oppositely moving raw film strip.

1,756,427. FORMING AND ASSEMBLING MACHINE AND PROCESS. JAMES E. GUNTER, Baltimore, Md. Filed Sept. 12, 1927. Serial No. 219,015. 25 Claims. (Cl. 140—88.)



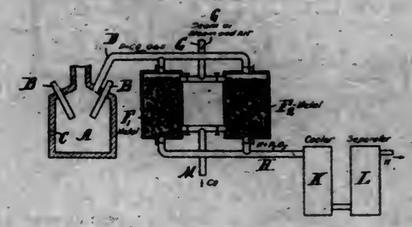
1. In ring forming and placing mechanism, a mandrel, material feeding mechanism, means to form a ring of said material around said mandrel, mechanism to sever a formed ring from the material and means to transfer said ring from said mandrel to an adjoining member.

1,756,428. CLUTCH. FRANK H. JONES, Cleveland, Ohio, assignor to Allen B. Whitney and Frank H. Jones, Upper Sandusky, Ohio. Filed Jan. 19, 1925. Serial No. 3,390. 6 Claims. (Cl. 192—68.)



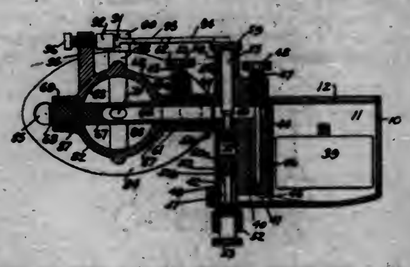
1. A clutch comprising cooperating friction members adapted for mounting respectively on driving and driven members, a pressure release plate, an outer retaining plate disposed adjacent the pressure release plate, pressure springs interposed between the former and the latter, the pressure release plate being provided with ears having slots formed therein, pivotally mounted levers having turned extremities engaging said slots and constituting pivotal connections between the levers and the release plate, and means for rocking the levers to impart movement to the release plate against the pressure of said pressure springs.

1,756,429. METHOD OF PRODUCING PHOSPHORIC ACID AND HYDROGEN. MARKUS LARSSON, Niagara Falls, N. Y., assignor, by mesne assignments, to Du Pont Ammonia Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 31, 1925, Serial No. 19,581, and in Sweden Apr. 15, 1924. 5 Claims. (Cl. 23—165.)



1. The method of producing phosphoric acid and hydrogen gas which comprises reacting upon a phosphide of a metal reducible by hydrogen by means of hydrogen monoxide to oxidize the phosphorus of the phosphide substantially into phosphorous pentaxide and to set free the hydrogen of the hydrogen monoxide.

1,756,430. CARBURETOR. ANILO MIJARES, Yonkers, N. Y. Filed Apr. 30, 1926. Serial No. 105,718. 4 Claims. (Cl. 261—51.)

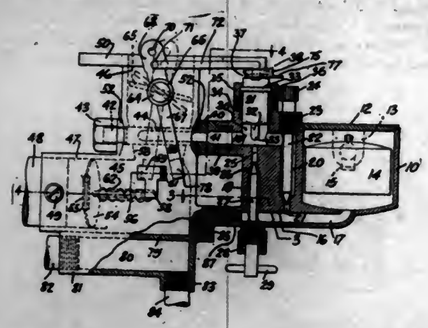


1. In a carburetor for gas engines with a throttle lever control, having a float controlled liquid fuel supply, a main liquid fuel valve, an auxiliary liquid fuel check valve, means for preventing closing of the said auxiliary check valve when the throttle lever of the engine is advanced to starting position, the said auxiliary valve being adapted to close automatically by the suction in the engine and the momentum of the liquid fuel in line of travel of the said auxiliary valve as soon as the throttle lever of the engine is returned to its normal position after starting, an air connection to the carburetor, and a hinged swing check within the carburetor adapted to adjust automatically the amount of air admitted into the carburetor in proportion to the speed of the engine.

1,756,431. CARBURETOR. ANILO MIJARES, Yonkers, N. Y. Filed Oct. 19, 1926. Serial No. 142,653. 5 Claims. (Cl. 261—49.)

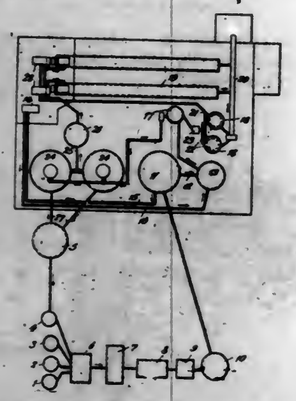
1. In a carburetor for gas engines with a throttle lever control, having a float controlled gasolene supply, a main gasolene valve, and an air inlet check valve, an auxiliary gasolene valve controlling a by-pass from the said gaso-

lene supply, means for preventing closing of the said auxiliary gasolene check valve when the throttle lever of



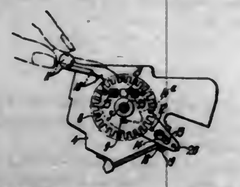
the engine is advanced to starting position, the said means being operably disposed to prevent simultaneously opening of the said air inlet check valve.

1,756,432. CONTINUOUS SULPHATE PROCESS. WILLIAM CAULDWELL MUNRO, Montreal, Quebec, Canada, assignor to William D. Mount, Lynchburg, Va. Filed Apr. 13, 1927, Serial No. 183,368, and in Canada Mar. 1, 1927. 9 Claims. (Cl. 92—9.)



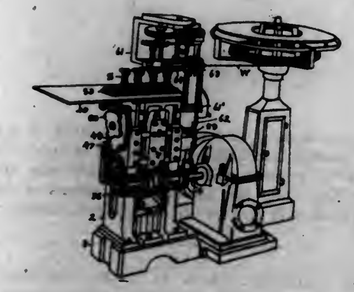
1. In a continuous process for preparing the pulping liquor for the sulphate process the steps of continuously supplying a quantity of green liquor to a continuous decanter, separating solids from the liquor therein, in the form of sludge, filtering the sludge, returning the filtrate to the process, discarding the solids, transferring the decanted liquor continuously to storage and continuously withdrawing the stored liquor for causticization.

1,756,433. TYPEWRITING MACHINE. CARL E. NORIN, Jersey City, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 8, 1927. Serial No. 204,274. 14 Claims. (Cl. 197—121.)



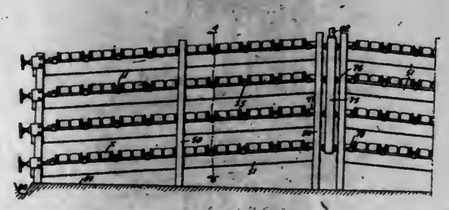
1. In a typewriting machine, the combination with a carriage having a platen, a platen-shaft and a line-space mechanism of a fractional line-space mechanism to rotate the platen in two directions a distance less than a line-space, including a toothed wheel rotatable with the platen, a lever having a clearance hole for the shaft, a projecting dog on the lever operable to engage between the teeth of the wheel, said lever actuable diametrically of the platen across the shaft to bring the dog and teeth of the wheel into interlocking engagement and then actuable to rock the platen, and self-centering seats formed in the shaft-clearing hole of the lever, to seat upon the shaft and determine the forward and backward stroke of the lever for fractionally line-spacing the platen for typing.

1,756,434. MACHINE FOR FABRICATING SPRING STRUCTURES. DAVID T. OWEN, Cleveland, Ohio, assignor to The Owen Automatic Spring Machinery Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 21, 1926. Serial No. 156,202. 61 Claims. (Cl. 140—11.)



1. A machine for producing spring structures, including automatic mechanism for collocating spiral wire springs with their corresponding end loops in the same plane, combined with means for connecting said loops of the collocated springs together automatically.

1,756,435. METHOD OF AND APPARATUS FOR PREPARING RAYON. LEWIS A. PALEY, Grand Island, N. Y., assignor to Du Pont Rayon Company, Inc., a Corporation of Delaware. Filed June 15, 1925. Serial No. 37,402. 31 Claims. (Cl. 18—8.)



29. In a drum for use in connection with the manufacture of rayon, substantially cylindrical body portion adapted to receive cakes of freshly spun rayon, a head formed on each end of the cylinder having rolling edges of larger diameter than the cylinder, and an annular rib formed on the cylinder between each head and its nearest cake, said rib being adapted to throw off liquid from the rayon so as to keep said rolling edges dry during the spinning operation.

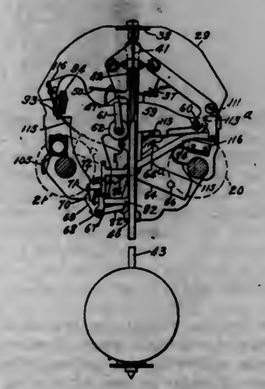
31. A drum for use in connection with rayon having a cylindrical surface provided with a series of openings, an imperforate section between said series of openings, and means on said imperforate section to prevent the cakes from spreading during treatment.

1,756,436. ANTENNA. VICTOR I. PEARSON, Hecla, S. Dak. Filed Oct. 8, 1927. Serial No. 224,794. 2 Claims. (Cl. 250—33.)



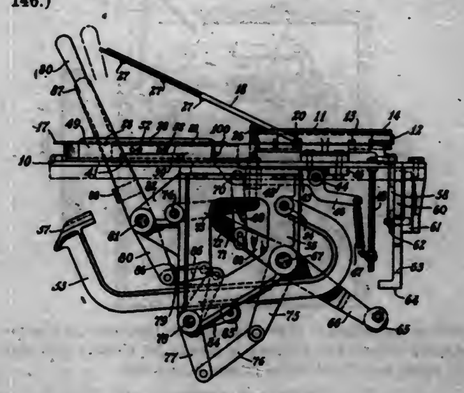
1. An antenna comprising a staff, a cylinder disposed adjacent one end of the staff, the latter being coincident with the axis of the cylinder, and outwardly directed radial fingers carried by the cylinder at an intermediate point in the height of the latter, the cylinder having a ring disposed in surrounding relation to it and the fingers being connected with said ring.

1,756,437. CLOCK AND SIMILAR INDICATOR. ARTHUR F. POOLE, Ithaca, N. Y., assignor to Poole Manufacturing Co., Inc., a Corporation of New York. Filed Jan. 6, 1927. Serial No. 159,323. 28 Claims. (Cl. 58—30.)



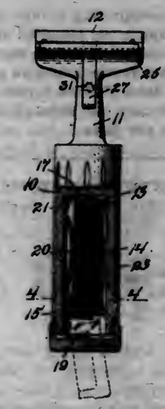
28. In an electric clock, the combination of a battery, an electromagnet, a circuit including said battery and magnet, an armature, contact means for said circuit releasably held in open circuit condition by said armature and when released operable into closed circuit condition, a buffer spring engaged by said armature when it approaches its attracted position, said armature automatically reengaging said means as it approaches attracted position, whereby said armature during its rebound from said spring will restore said means to open circuit condition to permit complete retraction of the armature.

1,756,438. METHOD OF AND APPARATUS FOR ASSEMBLING SHOE PARTS. CHARLES M. RICHARDSON, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1928. Serial No. 267,881. 8 Claims. (Cl. 12—146.)



1. The method of assembling a rubberized fabric shoe tongue blank with a fastener and a lining which comprises determinately positioning the blank in substantially flat form, determinately moving opposite margins of the blank to bring them into juxtaposition and parallel relation to each other and while it is so held placing the lining about the blank, securing the margins of the blank to the margins of the lining, and securing a fastener to the margins of the blank.

1,756,439. SAFETY RAZOR. JACOB SCHICK, East Orange, N. J., assignor to Magazine Repeating Razor Company, a Corporation of New Jersey. Filed Feb. 8, 1926. Serial No. 85,632. 2 Claims. (Cl. 30—12.)

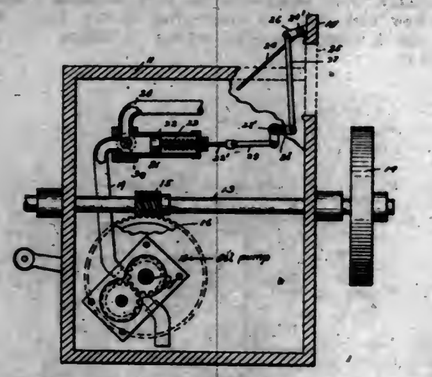


2. A razor comprising a casing, a holder slidable in the casing and adapted to be partially withdrawn therefrom, the holder including a lip at its outer end, and a flanged cap for closing the end of the casing and adapted for engagement with the lip for withdrawing the holder.

1,756,440. CINEMA OR ANALOGOUS PROJECTING APPARATUS. FRIEDRICH SEUFERT, Munich, Germany, assignor of one-half to Hermann Seufert, Brooklyn, N. Y. Filed Feb. 17, 1928, Serial No. 255,146, and in Germany Oct. 22, 1927. 8 Claims. (Cl. 88—19.4.)

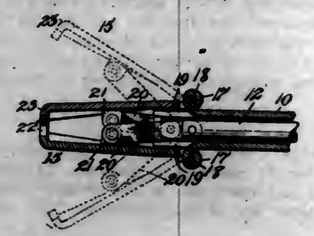
3. In a cinema or the like projecting apparatus, the combination with driving means for said apparatus, of lu-

bricating means driven by said first named means, a fire preventing shutter for the gate, means actuated by said



lubricating means for opening said shutter when the former is being driven and automatic means for closing said shutter when said lubricating means is stopped.

1,756,441. GRASPING DEVICE. MILTON WILLIAMS SMITH, Caldwell, N. J. Filed Mar. 12, 1929. Serial No. 346,427. 1 Claim. (Cl. 294—115.)



A grasping device comprising a tube and slitted at the end and on opposite sides, the material slitted being rolled back on the outside of the tube to form knuckles, jaws having knuckles hinged to the knuckles on the tube, a rod slidable in the tube, links pivoted to the rod and the jaws and disposed so as to pass out through the slits when the rod is pushed to open the jaws.

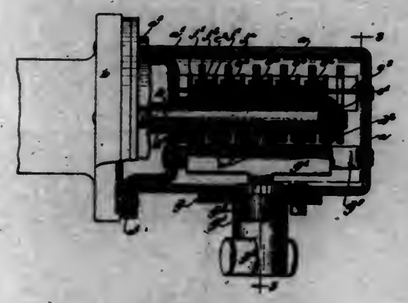
1,756,442. AEROPLANE BOAT. ESTAFIT TEMENS, Elizabeth, N. J. Filed Mar. 6, 1929. Serial No. 344,760. 2 Claims. (Cl. 244—25.)



1. In combination with a flying aeroplane-boat of the class described having a plurality of combination gas and electric motor driven propellers, a base supporting each of said combination prime movers and provided with inclined sides terminating at a point, a block attached on said aeroplane boat and pivotally supporting said base at said point, and a pair of wedge members adjustably mounted on said block and on opposite sides of said pivot point and engaging said inclined sides for holding the prime mover stationarily and upon adjustments changing the positions of said prime mover.

1,756,443. COUNTER. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a Corporation of Connecticut. Filed Mar. 7, 1928. Serial No. 259,719. 2 Claims. (Cl. 235—117.)

1. In a recording register having register wheels and a recording platen, the combination of a supporting plate, a supporting casing, studs supported by said plate and said casing, a second supporting plate supported by the studs, a main shaft mounted in said supporting plates, said number wheels being mounted on the main shaft, means



to actuate the number wheels, squared studs mounted in the first named supporting plate and casing, said platen being mounted between the studs and being movable toward and from the number wheels, and means to actuate the platen.

1,756,444. ELECTRIC HEATING MEANS. RUDOLF VON BROCKDORFF, Munich, Germany, assignor to Schutte and Koerting Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1929, Serial No. 338,141, and in Great Britain June 16, 1928. 1 Claim. (Cl. 219—19.)



An electric heating means, comprising a wire having helical portions of relatively small diameter at intervals therein, and the said wire also having helical portions of relatively large diameter located alternately with respect to the first named portions; the turns of the first and second named portions extending in reverse directions with respect to each other, means for insulating the adjoining turns of the said coils from each other, and means having connection with said heating means at its opposite ends and constituting the sole means of support therefor.

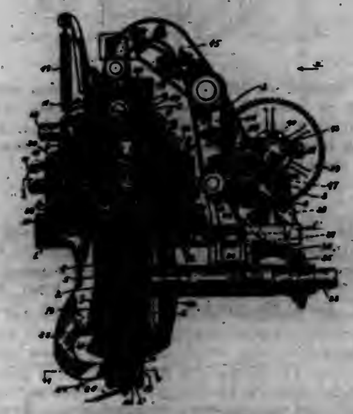
1,756,445. BATTERY TERMINAL. ALBERT H. WALDO, Roxborough, Pa. Filed Aug. 28, 1928. Serial No. 302,575. 1 Claim. (Cl. 173—259.)

A storage battery terminal comprising a casting having a portion thereof forming a connector for a storage battery post, a frusto-conical portion on said casting having internal screw threads throughout the length thereof, and a frusto-conical insert enclosing the end of a cable, screw threads on said insert extending to one end thereof for engaging the internal screw threads in the frusto-conical portion of said casting, said insert having a slitted portion at



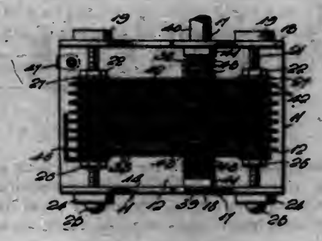
one end and a housing portion at the other end, the slitted portion being spaced from the housing portion, and said housing portion extending into the frusto-conical portion of said casting when said insert is screwed to a limiting position therein for preventing leakage of acid into said connector, said housing portion being adapted to receive the insulated portion of the cable.

1,756,446. GAS TURBINE. SIMON ABRAHAMS, New York, N. Y. Filed Sept. 10, 1928. Serial No. 304,870. 1 Claim. (Cl. 60—41.)



A gas turbine, comprising a gas compression chamber mounted upon a frame, a piston, a turbine arranged to rotate around said gas chamber, ports formed in said gas chamber and adapted to direct exploded gas against the blades of said turbine, a hollow stem and depending shaft formed integrally with said turbine and extending below said gas chamber, an air intake at the lower end of said hollow shaft and air ports formed at the upper part of said shaft to provide air circulation for cooling purposes, gas intake and exhaust ports in said gas chamber, a sleeve valve adapted to open and close said ports, a crankshaft carried in suitable bearings upon said frame, a gear upon said crankshaft, a gear upon said hollow shaft, connecting gears and shafts between aforesaid gears and adapted, by the rotation of said turbine to turn said crankshaft, a rocker arm pivotally mounted on said frame and linked to said piston at one end and connected at its other end, by means of a link, to the crank of the said crankshaft; the said link connection functioning to practically stop the piston movement during the explosion and expulsion of the compressed gas, a rocker arm pivotally and slidably connected at one end to said valve sleeve and having upon its other end a roller adapted to engage the said crankshaft, a cam member upon said crankshaft adapted to engage said roller to actuate said sleeve, a spring interposed between said sleeve and cylinder to move the valve sleeve to its lowermost position, and a spark plug for igniting the compressed gas.

1,756,447. VARIABLE CONDENSER. GROVER F. BEHRINGER, Defiance, Ohio, assignor to The American Steel Package Company, Defiance, Ohio, a Corporation of Ohio. Filed Aug. 28, 1926. Serial No. 132,229. 15 Claims. (Cl. 175—41.5.)



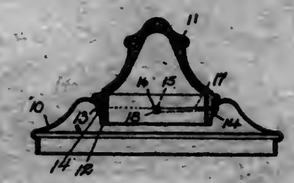
1. In an electrical condenser the combination of a frame, parallel bearing extensions integral with the sides of the frame and adjustable means for constricting the sides to cause the extensions to approach each other.

1,756,448. BAND FOR PERSONAL WEAR. SIDNEY O. BIGNEY, Attleboro, Mass., assignor to S. O. Bigney & Company, Attleboro, Mass., a Corporation of Massachusetts. Filed May 28, 1929. Serial No. 366,626. 6 Claims. (Cl. 241—8.)



1. A method of forming a strap, which consists in forming spaced circumferential grooves at intervals along a length of tubing of a diameter slightly greater than the thickness of the strap to which it is applied, slotting the tube along its length, inserting the edge of the strap into said slot of the tube, compressing the tube to grip the strap and breaking the stock of the tube at the grooves.

1,756,449. TOP FOR PERCOLATORS. WILLIAM G. BILLERMAN, Newark, N. J. Filed Feb. 12, 1930. Serial No. 427,685. 2 Claims. (Cl. 53—3.)



1. A top for percolators comprising a perforated lid, a dome resting on the edges of the perforation of the lid and having a flange extending through the perforations, the flange having a slightly raised portion on its outer face and having holes diametrically opposed to said raised portion, and a spring wire bail to snap over the raised portion and with ends turned inwardly and extending into the holes.

1,756,450. CUTTER BAR FOR COAL-CUTTING MACHINES AND THE LIKE. WILLIAM CHRISTIE BLACK, Dudley, England, assignor to Matthew Smith Moore, Brussels, Belgium. Filed Aug. 25, 1927, Serial No. 215,397, and in Belgium Sept. 13, 1926. 10 Claims. (Cl. 262—83.)



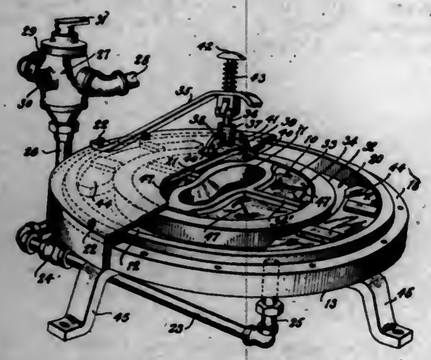
9. The combination of a cutter bar comprising a threaded rod having slots with longitudinally cylindrical bottom walls cut through its thread, and cutter picks having longitudinally cylindrical bases adapted to fit in said slots.

1,756,451. HAIR-PERMANENT-WAVING APPARATUS. HARRY BONAT, New York, N. Y. Filed July 26, 1928. Serial No. 295,429. 5 Claims. (Cl. 132—33.)



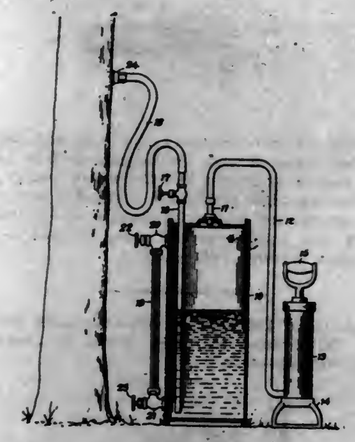
1. Apparatus of the character described comprising a protector composed of thin strips of heat-resisting material joined in pivotal relation, a standard extending perpendicularly from said protector and having a pawl member punched therefrom, and a spool having ratchet teeth on one end thereof extending radially outwardly from near the axis of the spool, said ratchet teeth being adapted for engagement with said pawl member.

1,756,452. PRESSING MACHINE. EUGENE E. CLEMENTS, New Haven, Conn., assignor to The L. Candee and Company, New Haven, Conn., a Corporation of Connecticut. Filed July 15, 1927. Serial No. 205,916. 17 Claims. (Cl. 18—2.)



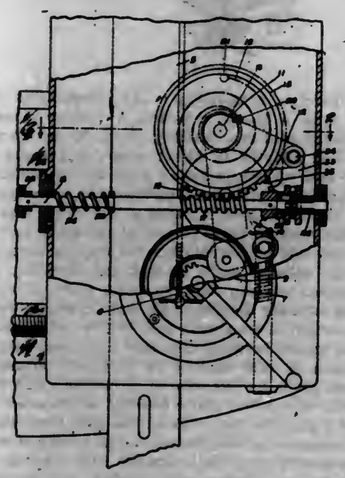
1. A pressing machine comprising opposed walls, one of which has an article receiving opening, means for fixedly holding an article therein, resilient material disposed between said walls around said opening, and means for expanding or contracting said material.

1,756,453. METHOD OF TREATING TREES AND APPARATUS THEREFOR. PAUL H. DAVEY and HOMER L. JACOBS, Kent, Ohio, and JAMES A. DAVEY, Sound Beach, Conn.; said Homer L. Jacobs assignor to The Davey Tree Expert Company, Kent, Ohio, a Corporation of Ohio. Filed Jan. 2, 1929, Serial No. 329,753, and in Canada Oct. 10, 1927. 4 Claims. (Cl. 47—58.)



1. A method of injecting fluid into trees comprising forming an opening crosswise of the fibers, anchoring and seating a diffusing means in said opening, and forcing fluid into the diffusing means under a pressure in excess of the hydrostatic pressure of the sap.

1,756,454. SPRING COUNTERBALANCE FOR DRILL SPINDLES. WILLIAM C. DE ROO, Cincinnati, Ohio, assignor to The Fosdick Machine Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 16, 1927. Serial No. 219,945. 3 Claims. (Cl. 77—36.)



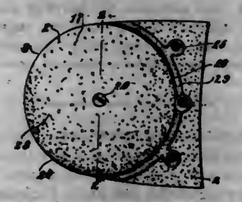
1. In a device of the class described the combination of a vertically adjustable tool spindle having rack teeth thereon, a gear meshing with the rack rotatable for raising and lowering the spindle, a shaft, a coil spring having its one end attached to said shaft, a gear train operative through the first mentioned gear for actuating the shaft whereby to wind and unwind the spring for effecting a spring counter-balance of the spindle, a movable spring pressed transverse shaft, means connecting the transverse shaft and the second end of the coil spring whereby the tension on the coil spring normally resists movement of the spring pressed shaft, a toothed catch adapted for movement into and out of the path of one of the gears in said gear train and means on said transverse shaft for effecting movement of the catch for locking the gear train upon failure of the coil spring to oppose movement of the spring pressed shaft.

1,756,455. CAR DOOR. GEORGE BINET DOREY, Evanston, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 24, 1926. Serial No. 104,426. 1 Claim. (Cl. 189—46.)



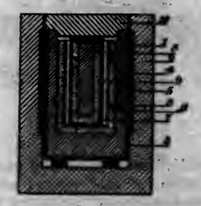
A sliding door for railway cars including a metallic body portion defining the main body of the door and inwardly extending marginal wall portions angularly related with respect to the main body portion and cooperating therewith to provide a box shaped structure, said main body portion having rigidifying means embossed therein and extending outwardly of the box shaped section, said rigidifying means being adapted to provide reinforcement horizontally across the door, said reinforcement terminating short of the vertical marginal sections of the box shape; and supplementary reinforcement for the inner side of the door disposed in the box shape portion of the door, said last named reinforcements extending diagonally across the corners of the door and adapted to bridge as beams the space intermediate the embossed rigidifying means and the marginal sections to thereby provide with said rigidifying means continuity of reinforcement intermediate the vertical marginal sections.

1,756,456. HEEL. WASHINGTON E. FORRESTER, Baltimore, Md. Filed Aug. 27, 1929. Serial No. 388,702. 4 Claims. (Cl. 36—39.)



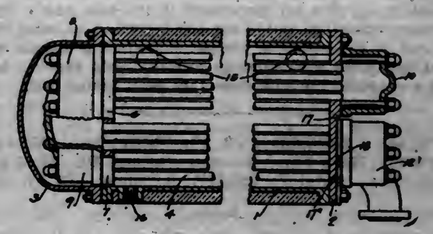
1. The combination in a rubber heel having a circular socket, of a ring fitting in said socket, means for holding the ring permitting and restraining its rotation, a rubber disc in said ring presenting a bottom surface which serves as the tread surface of the heel, said ring having means for engagement by a tool to rotate the ring and disc, and means for securing the disc against rotation relatively to the ring.

1,756,457. MANUFACTURE OF OBJECTS CONSISTING OF REFRACTORY, INSULATING, ABRASIVE, OR LIKE SUBSTANCES. MARCEL FOURMENT, Paris, France. Filed Dec. 13, 1927, Serial No. 239,748, and in France Dec. 21, 1926. 8 Claims. (Cl. 266—1.5.)



2. The process of baking objects of tubular form of a refractory and dielectric substance, by placing a piece of conducting heat resisting material capable of being heated to a high temperature by induced currents, in the interior of the tubular object to be baked, in leaving a space between said piece and the object to be baked, thereafter heating the piece by means of induced electric current to a temperature sufficient to bake the object.

1,756,458. TUBE SHEET. CHARLES W. GORDON, Pleasantville, N. Y., assignor to The Superheater Company, New York, N. Y. Filed Jan. 4, 1929. Serial No. 330,179. 8 Claims. (Cl. 257—230.)

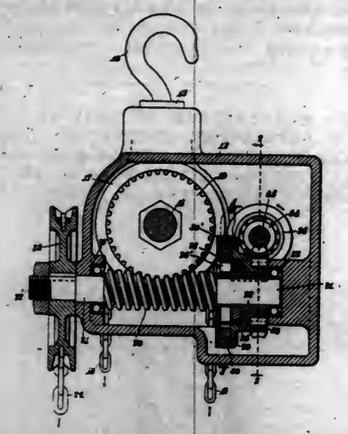


1. As a new article of manufacture, a tube sheet provided with a plurality of spaced groups of tube holes and a groove in one face of the tube sheet located between and separating two of the groups of tube holes.

1,756,459. CHAIN HOIST. FRANK L. GORMLEY, Chicago, Ill. Filed July 12, 1929. Serial No. 377,750. 20 Claims. (Cl. 254—170.)

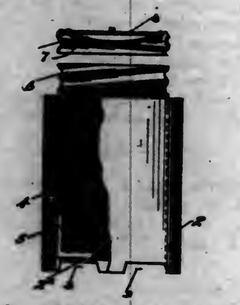
1. In a chain hoist, a casing provided with supporting means therefor; a shaft rotatable therein; a chain-supporting sprocket wheel revoluble with said shaft; a worm

gear keyed to said shaft; a worm meshing with said gear; means on one end of said worm for rotating it; mechanism



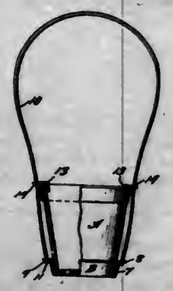
at the opposite end of said worm and operable thereby for retarding the rotation of said worm; and manually actuated means for releasing said retarding mechanism.

1,756,460. COFFEE STEEPER. GEORGE I. GREEN, Los Angeles, Calif. Filed Sept. 23, 1929. Serial No. 394,598. 2 Claims. (Cl. 53—3.)



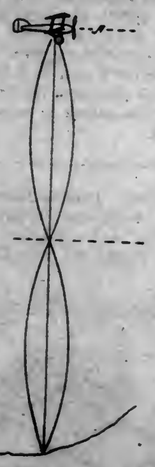
1. Apparatus, for steeping coffee, comprising, in combination, a coffee pot immersible in the pan, and a coffee steeper immersible in the pot and including an outer shell to rest on the bottom of the pot and which is spaced from and surrounds a foraminous receiver; said receiver having a concaved top with cross-bars for a fishing tool.

1,756,461. HANDLE FOR FLOWERPOTS AND SAUCERS. HANS PETER HANSON, Chicago, Ill. Filed May 31, 1928. Serial No. 281,737. 9 Claims. (Cl. 47—35.)



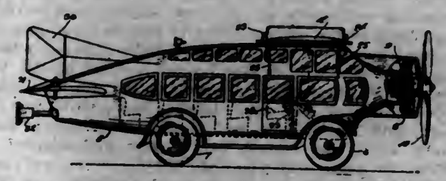
1. In combination a flowerpot, a saucer, a resiliently actuated handle and locking clips resiliently joining the flowerpot, saucer and handle.

1,756,462. ALTIMETER. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Apr. 18, 1924. Serial No. 707,408. 2 Claims. (Cl. 250—11.)



1. A safety device for an airplane for indicating its approach to an obstruction and comprising a sending set carried by the airplane and having pronounced directional characteristics for propagating radio waves of a length corresponding to the desired flight height of the airplane and adapted to be reflected back by the surface of the ground to the airplane, a receiving set also carried by the airplane for receiving the reflected radio waves, and means connected with the sending and receiving sets for indicating when the propagated and reflected waves are in and out of phase.

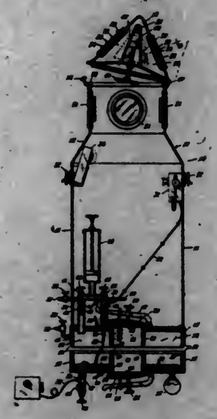
1,756,463. COMBINED AUTOMOBILE AND AEROPLANE. ANTON JEZEK, Hopkins, Minn., assignor of one-half to Gustave A. Bethke, Hopkins, Minn. Filed Mar. 7, 1928. Serial No. 259,769. 2 Claims. (Cl. 244—12.)



1. The combination with a vehicle of the class described comprising a body mounted on traction wheels and provided with an air propeller and driving means, of a hollow superstructure of substantially the same width of the body and having end openings, a pair of wings slidably mounted in said superstructure and adapted to be projected out of and retracted into said superstructure in opposite directions, said wings being provided with racks, and said superstructure having mounted therein pinions engaging with said racks, for the purpose of moving said wings, the shafts of said pinions being coupled together for conjoint movement and provided with means for simultaneously moving both wings by the manual operation of either shaft.

1,756,464. SUBMARINE SAFETY DEVICE. VICTOR EMANUEL JORGENSEN, THORVALD JOHANNES JORGENSEN, and OLUF KRISTIAN JORGENSEN, Hempstead, N. Y. Filed Mar. 8, 1928. Serial No. 259,987. 7 Claims. (Cl. 114—16.7.)

3. A safety buoy comprising a substantially cylindrical tube formed with a neck portion at its top and having its lower part closed by a bottom member adapted to engage and form a compact fitting with a counterpart substantially corresponding in shape to said bottom member, means arranged in said bottom parts for entering the said



buoy, a plurality of tubes formed in the latter for the supply of air and as an outlet for water, a pyramidical lid attached to the said top, and means for admitting air through the latter, and further means for disposing of the inflow of water, substantially as shown and described.

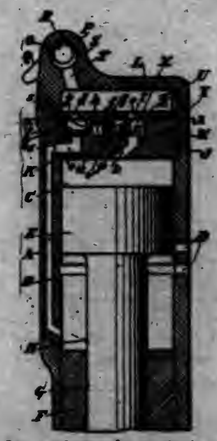
1,756,465. EXHAUST MANIFOLD. WILLIAM B. JUPP, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 12, 1928. Serial No. 260,855. 1 Claim. (Cl. 137—160.)



The combination with an exhaust manifold for a multiple cylinder internal combustion engine, said manifold extending parallel to the line of the cylinders and having extensions at angles thereto communicating with the exhaust ports of said engine, the manifold being formed to permit the escape of exhaust gases therefrom at one end only, said end being at an angle to the rest of the manifold, of a three-quarters annular shaped compartment integral with the manifold and communicating therewith so that one end of the annulus is in line with the length of the manifold and the other end is in line with the exhaust end of the manifold.

1,756,466. VALVE FOR ROCK DRILLS. ALBERT R. MACK, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 28, 1928. Serial No. 309,101. 4 Claims. (Cl. 121—18.)

1. In a fluid actuated rock drill, the combination of a cylinder and a piston, a free exhaust port in the cylinder controlled by the piston, a valve chest having a rectangular valve chamber, inlet passages leading from the valve chamber to the cylinder, a pressure actuated distributing valve in the valve chamber having flanges slidable over the inlet passages for controlling the admission of pressure fluid



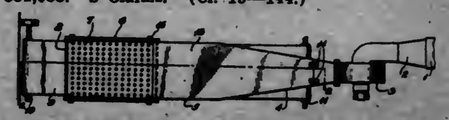
into the cylinder, and supply ports in the valve chest to admit pressure fluid into the ends of the valve chamber for actuating the valve and for supplying the inlet passages.

1,756,467. THEFTPROOF POCKET. BENJAMIN MAYER, New York, N. Y. Filed Oct. 25, 1928. Serial No. 314,858. 2 Claims. (Cl. 2—254.)



1. In combination with a theft proof pocket, front material formed with a patch, a patch cover of equal size and similar shape as that of the patch, a lever supporting the patch cover at one of its ends, a plate attached to the front material and pivotally supporting said lever intermediate of its ends, a spring for normally urging patch cover from over the patch, a bar pivotally attached at one of its ends on the other end of the said lever, a slide joined to the other end of the bar, a guide for the slide, an auxiliary strip attached to the front material and supporting the said guide, and a button attached on the guide and arranged to engage a button hole for closing the pocket and for simultaneously holding the patch cover over the patch.

1,756,468. PNEUMATIC APPARATUS FOR PRODUCING MATS OR BATS OF FIBROUS MATERIALS. CONRAD G. MOLLER, New Canaan, Conn., assignor to American Hair & Felt Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 29, 1929. Serial No. 351,083. 3 Claims. (Cl. 19—144.)



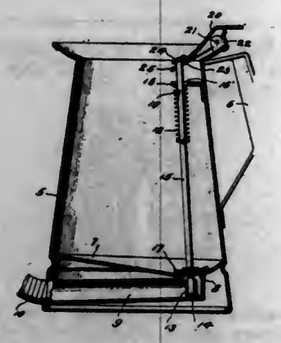
1. Pneumatic apparatus for producing mats or bats of fibrous materials comprising a moulding chamber having a perforated wall, means for producing a fibre laden air current and a flared conduit having a stream line conformation for conveying the fibre laden air current into said moulding chamber.

1,756,469. AEROPLANE. LEROY DAVID MOSS, Beloit, Kans. Filed May 8, 1928. Serial No. 276,145. 1 Claim. (Cl. 244—29.)



In an aeroplane, a wing having recesses in the trailing edge thereof, an aileron arranged in said recesses and pivoted to the wing, arms extending downwardly from the ailerons, supports located below and rigid with respect to the wing, vertical shafts rotatably connected to the rear sides of the supports and provided at their upper ends with arms, links connecting the arms of the ailerons and the arms of the shaft, and vertical vanes fixedly secured to and extending rearwardly from the shafts.

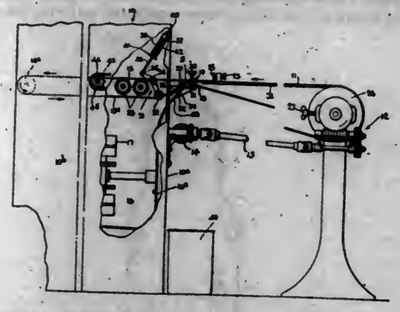
1,756,470. OIL MEASURING AND DISPENSING CAN. VINCENZO PAONE, Utica, N. Y. Filed June 17, 1929. Serial No. 371,595. 2 Claims. (Cl. 221—16.)



1. A liquid dispensing device comprising a container having an open top and provided in its bottom with an outlet, an upwardly opening valve for said outlet, a vertical rod carrying said valve and extending to said open top of the container, fixed guides for the upper and lower portions of said rod, a thumb-operated lever fulcrumed between its ends upon the upper end of the container and having an opening in its inner end through which said rod passes, the upper end of said rod being provided with a shoulder over the inner end of the lever to impart upward movement to said rod upon depression of the outer end of said lever, and a spring exerting a constant downward valve-closing force upon said rod, said rod having a notch adapted to snap into engagement with said upper guide upon complete raising of the rod by depression of said outer end of the lever, said opening having an end adapted to laterally force said rod and disengage its notch from said upper guide upon upward movement of said outer end of the lever from its valve-open position.

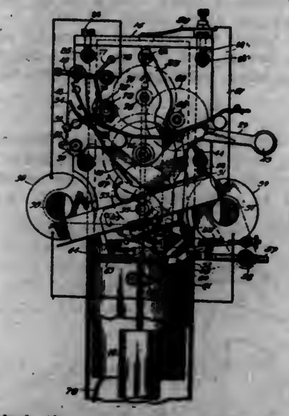
1,756,471. CONFECTION-COATING APPARATUS. JOSEPH PICCOLO and JOHN W. VILLANO, Brooklyn, N. Y. Filed May 21, 1927. Serial No. 193,213. 6 Claims. (Cl. 91—3.)

3. In a set-up of confection coating apparatus, including an enrober, a perforated belt overlying said enrober, and a feed table for delivering uncoated confections to the enrober, the delivery end of the table being located in line with the receiving end of said perforated belt, said ends being substantially spaced in a horizontal direction, said entire space between said ends being located beyond



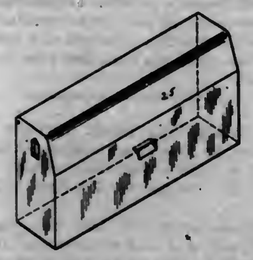
said enrober whereby particles from said uncoated confections will fall without entering said enrober or coming into contact with said belt.

1,756,472. ELECTRIC CLOCK. ARTHUR F. POOLE, Pelham Manor, N. Y., assignor to Poole Manufacturing Company, Inc., Westport, Conn., a Corporation of New York. Filed Jan. 10, 1924. Serial No. 685,387. 32 Claims. (Cl. 58—30.)



1. In a clock the combination of a pendulum, means acting directly on the pendulum adapted to give said pendulum an impulse, a detent to render said impulse means inoperative on said pendulum, arc determining means for said pendulum adapted to move said detent and release said impulse means and means exclusive of said arc determining means and operable to restore said detent.

1,756,473. FORM AND MOLD. JOHN N. RAUBER, Rochester, N. Y. Filed Oct. 21, 1927. Serial No. 227,730. 2 Claims. (Cl. 25—121.)



1. In a form for molding an article of cement comprising face, back and end plates of sheet metal, said face

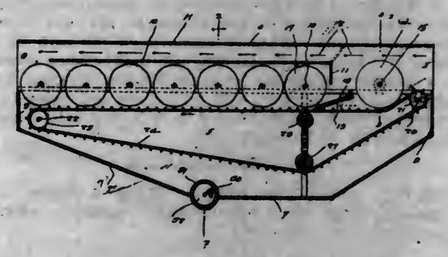
plate being made of integral sheet material consisting of side and bottom portions extending at substantially right angles to each other, joined together by an inclined portion, said bottom portion being provided with an upstanding flange, said back and end plates being substantially flat, and means for locking said plates together with an edge of the back plate in engagement with an edge of said flange.

1,756,474. RUBBER FOOTWEAR ARTICLE AND METHOD OF MAKING. HOWARD A. RAYMOND, Somerville, Mass., assignor to American Rubber Company, East Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 25, 1927. Serial No. 228,704. 2 Claims. (Cl. 41—26.)



1. A method of manufacturing waterproof footwear which consists in forming a thin layer of rubber composition, printing upon the exposed surface of the same while supported against stretching, assembling the constituents of footwear to form a shoe with said layer forming the exterior of the upper and vulcanising.

1,756,475. COTTON GIN. HENRY T. AHRENS, Charlotte, and OTTO G. AHRENS, Stockdale, Tex. Filed Mar. 28, 1929. Serial No. 350,660. 4 Claims. (Cl. 19—35.)



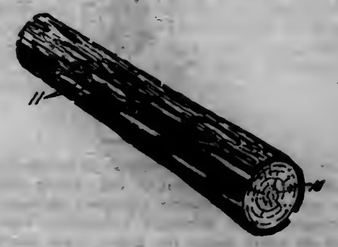
1. A machine of the class described comprising an elongated housing with a partition extending transversely thereacross, a plurality of rotary saws mounted in the housing below the partition, a screen separator cylinder journaled in the housing, a belt of the endless type, means for supporting the belt in an orbit so that the upper run extends below the cylinder and the saws, transverse cleats across the belt, means for moving the belt, a separator above the belt between the cylinder and the saws and inclining downwardly from the cylinders and the saws.

1,756,476. EAVE SHINGLE SUPPORT. ALFRED AUDET, Salem, Mass. Filed Mar. 22, 1929. Serial No. 349,140. 1 Claim. (Cl. 108—26.)



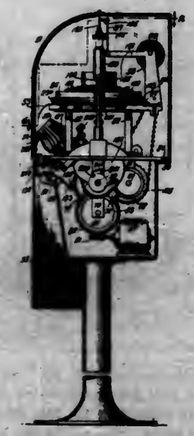
A metallic eave support for composition shingles consisting of a strip of sheet metal to be attached to the roof boards and projecting downward below the ends of said boards and having drainage openings, said support being provided at its lower edge with an integral flange against which the first courses of the composition shingles may abut, said flange consisting of a doubled part, one edge of said flange projecting below the body of the strip, and struck-out lugs formed in making said drainage openings, said lugs bearing against the projecting edge to stiffen the same.

1,756,477. PROCESS OF SEASONING LOGS. ORLO A. BARTHOLOMEW, Kansas City, Mo. Filed Mar. 14, 1929. Serial No. 346,944. 7 Claims. (Cl. 34—24.)



1. A method for preparing logs for seasoning comprising: removing a portion of the bark therefrom, said bark being removed at substantially uniformly spaced areas about the surface of the log.

1,756,478. METHOD OF AND MACHINE FOR MAKING CUPS. CHARLES S. BATDORF, Brooklyn, N. Y. Filed Sept. 9, 1925. Serial No. 55,301. 67 Claims. (Cl. 93—60.)

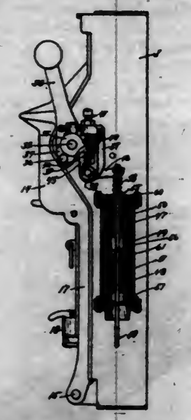


2. A method of making cups, comprising, forming a cup with upward flutes from a sheet of dry and thin

flexible material, and rolling a bead outwardly and inwardly around the fluted mouth portion of the cup while still dry.

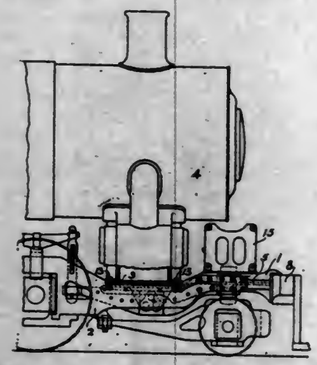
61. A cup making machine, comprising, means for forming a molded cup from a sheet of flexible material, revoluble means for folding down the free ends of the folds, means for turning under the edges of the free ends of the folds to form a bead around the rim of the cup, and means for actuating the specified means.

1,756,479. LOW-VOLTAGE RELEASE MECHANISM FOR SWITCHES. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Oct. 23, 1923. Serial No. 670,382. 3 Claims. (Cl. 200—102.)



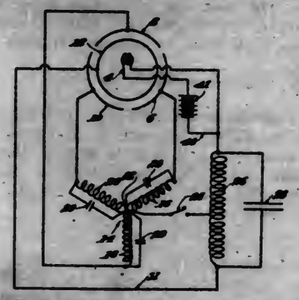
1. The combination of a switch, electromagnetic means for controlling the opening of the switch comprising an axially movable rod having shoulders thereon, a pair of electromagnet coils arranged concentric with said rod and spaced apart along the same, cores movable in the coils along the rod into and out of engagement with the shoulders respectively and being normally held out of engagement therewith when the coils are energized and acting as hammers on the shoulders to move the rod endwise when either of the coils is deenergized.

1,756,480. LOCOMOTIVE BUMPER BRACKET. JAMES G. BLUNT, Schenectady, N. Y. Filed May 20, 1929. Serial No. 364,493. 7 Claims. (Cl. 105—173.)



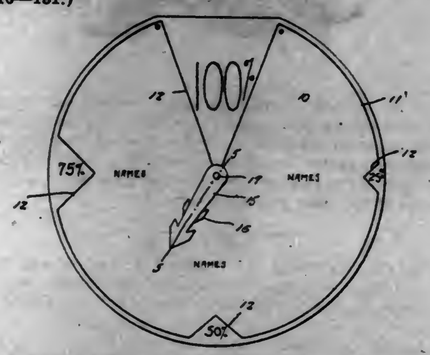
3. In a locomotive structure, the combination of a cylinder saddle; two side frame members, extending integrally from the front pedestals to the front of the cylinder saddle; a bumper beam; and a bumper bracket, comprising a rearward extension interposed between and secured to the said side frames.

1,756,481. THERMIONIC TUBE. VANNEVAR BUSH, Chelsea, Mass., assignor, by mesne assignments, to Powel Crosley, Jr., Cincinnati, Ohio. Filed Oct. 7, 1919. Serial No. 329,021. 2 Claims. (Cl. 250—27.)



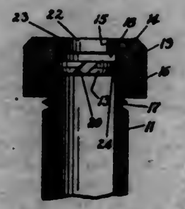
1. A thermionic tube circuit comprising a thermionic tube having a filament, a grid, and a plurality of plates, input and output circuits associated with the grid and plates respectively, and means for energizing the plate circuit comprising a multiphase source adapted to have its separate phases connected with the separate plates, the multiphase source being arranged to deliver a voltage of peaked wave form to maintain the excitation of the plate circuit at a substantially constant value.

1,756,482. DEVICE FOR ENCOURAGING DENTAL CORRECTION. NEVA A. BUSHONG, Lagrange, Ind. Filed July 13, 1929. Serial No. 378,061. 4 Claims. (Cl. 116—131.)



1. A device of the class described for encouraging dental correction comprising a card, indicia on the card at 90° intervals, a hand swingably mounted on the card to be moved in relation to the indicia, said indicia being formed by a circular line having inwardly directed V-shaped projections at 90° intervals, said projections increasing in a clockwise direction, a pasteboard tooth having a slit therein adapted to be pasted on the card.

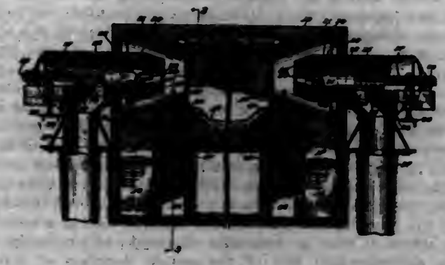
1,756,483. LAWN SPRINKLER. MILES E. ESTEP, Los Angeles, Calif. Filed June 23, 1925. Serial No. 39,013. 4 Claims. (Cl. 299—18.)



1. A lawn sprinkler for throwing a noncircular spray comprising: a cap provided with a perpendicular aperture

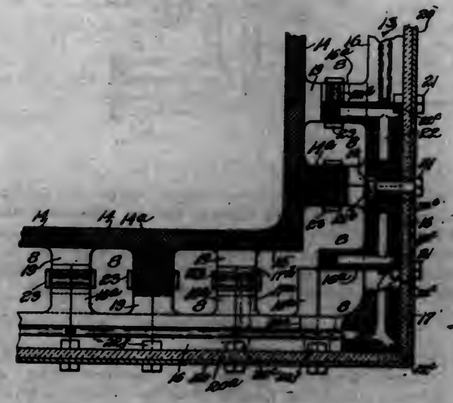
and adapted to be secured to an upright tubular outlet element; and a disc retained by said cap and provided with inclined slots having inner edges extending within the projection of the aperture in said cap upon said disc, said slots being inclined relative to vertical radial planes spaced about the periphery of said disc, said cap being provided with a shoulder adapted to contact with said disc and with a second shoulder spaced therefrom.

1,756,484. OPEN-HEARTH FURNACE. WILLIAM GAST, Philadelphia, Pa. Filed June 23, 1921. Serial No. 479,763. 8 Claims. (Cl. 263—15.)



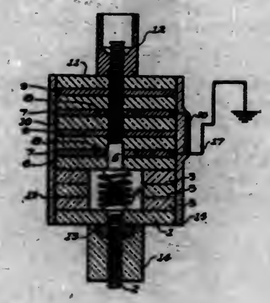
1. In a reverberatory furnace, a furnace head having a gas port and an air port surrounding the gas port and means to longitudinally move the gas port relatively to the air port.

1,756,485. FURNACE. ARTHUR F. HALL, Philadelphia, Pa., assignor to Hall Arch Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 15, 1927. Serial No. 219,647. 15 Claims. (Cl. 72—102.)



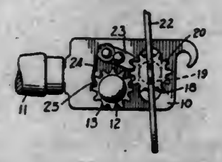
1. A block unit for walls consisting of a molded body of refractory heat insulating material and a reinforcing metal skeleton embedded in said body, said skeleton being made with bars disposed at the surface of said body and constituting corners of the block.

1,756,486. ELECTRIC CONDENSER FOR HIGH-TENSION IGNITION CIRCUITS. CASHLY A. HENRY, Dayton, Ohio. Filed Nov. 7, 1928. Serial No. 317,782. 4 Claims. (Cl. 123—148.)



1. A device of the type described comprising a plurality of primary plates, a plurality of secondary plates alternately placed between said primary plates, dielectrics separating said plates, a core passing through said plates and making an electrical connection with the primary plates, a ground connection to said secondary plates, a resistance coil in contact with the other end of said core, a terminal on said coil, and an insulating cylinder receiving said plates and coil for the purpose specified.

1,756,487. CAN OPENER. JOHN H. HILLIARD, New York, N. Y., assignor to The Turner and Seymour Mfg. Company, a Corporation of Connecticut. Filed Aug. 16, 1929. Serial No. 386,418. 9 Claims. (Cl. 30—3.)

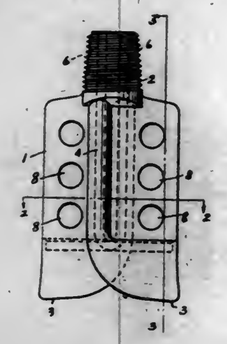


1. In a device of the character described, a pair of toothed pinions, means for moving the pinions into and out of operative engagement with each other, and means for maintaining a predetermined relation between said pinions when out of engagement, such that the teeth of the pinions will come into meshing register as the pinions are moved into engagement with each other.

1,756,488. METHOD OF TREATING SEEDS TO SECURE UNIFORM GERMINATION. JOHN L. KELLOGG, Chicago, Ill., assignor to Warren-Teed Seed Company, Chicago, Ill., a Corporation of Nevada. Filed Nov. 15, 1928. Serial No. 319,723. 24 Claims. (Cl. 47—58.)

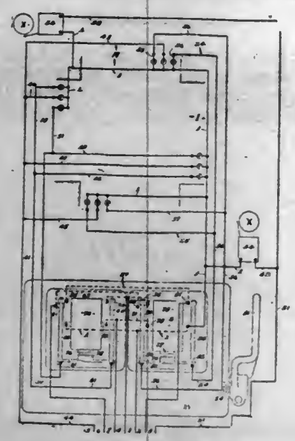
1. In a method of treating seeds of the same kind, but of varying degrees of hardness, to secure uniform germination, the steps of soaking the seeds in a color-fixing liquid, separating out the seeds that swell as the result of such soaking, scarifying the remaining seeds in the presence of a liquid, soaking the scarified seeds, and then separating out the seeds that swell as the result of said last soaking.

1,756,489. DRILL. WILLIAM W. LANDRUM, League City, Tex., assignor of one-half to H. G. Mobley, Houston, Tex. Filed July 27, 1929. Serial No. 381,646. 5 Claims. (Cl. 255—61.)



1. A drill having water channels leading downwardly therethrough from its upper end and turned laterally across the opposite sides of the drill and terminating in transverse upwardly directed discharge nozzles.

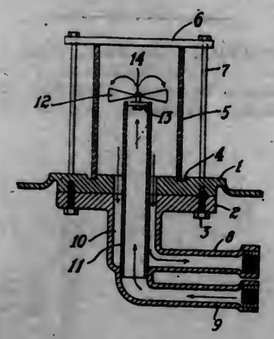
1,756,490. TRAFFIC SIGNALING SYSTEM. KENNETH W. MACKALL, Syracuse, N. Y., assignor to Crouse-Hinds Co., Syracuse, N. Y., a Corporation of New York. Filed Sept. 12, 1924. Serial No. 737,273. 2 Claims. (Cl. 177—339.)



1. In a traffic signaling system, the combination of a group of signals of the type operable by the making and breaking of electrical circuits, said group including two sets of signals, one set including stop and go signals presented in one direction and stop and go signals presented in the opposite direction, and the other set including stop and go signals in another direction at an angle to the first mentioned direction and stop and go signals presented in the opposite direction to the last mentioned stop and go signals normally the go signals of either set being active while the stop signals of the other set are active, means for controlling the normal operation of the signals including a normally closed switch member in the circuits controlling the signals of the group, a normally idle electromagnet, an armature for the magnet carried by and movable with the switch member, means for controlling the flow of current through the windings of the magnet and thereby the actuation of the armature and the throwing of the switch out of its normally closed position, contacts for engaging the switch member when it is thrown out of its normal position, the contacts being connected in circuit with the stop signals of both sets, the switch member having a handle by which it may be operated manually to shift the armature when the magnet is de-energized and set the stop signals of both sets and break the circuit to the go signals.

2. In a traffic signal system of the type operable by the making and breaking of electrical circuits, the combination of a plurality of groups of signals located at different street intersections, each group comprising a set including a pair of stop and go signals presented in one direction along one street and stop and go signals presented in the opposite direction and the other set including stop and go signals presented in one direction along an intersecting street and stop and go signals presented in the opposite direction along the intersecting street, electrical circuits including a timing switch for normally controlling the signals at all the intersections, a movable switch member for each group of signals normally closing the said circuit through the stop and go signals, means for setting all the stop signals of all the groups and breaking the circuit through the go signals, said means comprising a normally idle electromagnet for each group of signals, the magnet having an armature connected to said switch member to move the same and a remote switch for controlling the flow of current through the windings of all the magnets thereby actuating the armature and the switch member to break the circuit through all the go signals and close the circuit through all the stop signals, each switch member having a handle by which it may be manually operated independently of the electromagnet and of the switch members at other intersections.

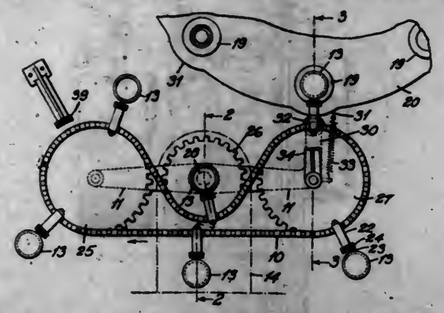
1,756,491. FLOW INDICATOR. WALTER H. MARSH, Pittsburgh, Pa. Filed Sept. 30, 1929. Serial No. 396,081. 2 Claims. (Cl. 116—117.)



1. A flow indicator comprising a supporting bracket having a glass cylinder clamped thereon forming a fluid chamber, an inlet conduit passing vertically into said chamber and an outlet passage concentric with said inlet passage at the bottom of said chamber, and means within said chamber for indicating flow of fluid therethrough.

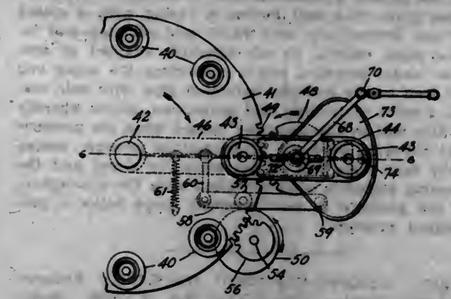
1,756,492. APPARATUS FOR DELIVERING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford Empire Company, Hartford, Conn., a Corporation of Delaware. Filed June 24, 1926. Serial No. 118,239. 22 Claims. (Cl. 49—5.)

13. Apparatus for transferring mold charges of molten glass from a glass feeder having a discharge outlet to a moving mold device, a supporting frame, a hub mounted at each end of the frame, each of said hubs carrying a pair of sprocket wheels spaced apart, a chain conveyor having upper and lower chains, said chains carried by said sprockets, a vertical bracket secured to the upper and lower chains, a mold charge transfer cup mounted on an upper extension of said bracket, means associated with the frame for positioning the cup at the outlet to receive a mold charge, means associated with the frame for inverting the



cup at the mold to discharge its contents into said mold, and means associated with the mold for causing the cup to travel with the mold during the discharge of the mold charge.

1,756,493. FEEDING MOLTEN GLASS. KARL E. PEILER, West Hartford, Conn., assignor, by mesne assignments, to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Mar. 17, 1914, Serial No. 343,813. Renewed Dec. 10, 1919. 53 Claims. (Cl. 49—5.)



6. A glass-shaping die having a flaring inlet and flaring outlet meeting in a contracted neck passage provided with a fluid film lining.

36. In a glass machine, a plurality of molds movable in a closed path, a transferring or distributing receptacle for delivering separated charges of glass to the molds, and means for moving said distributing receptacle with a moving mold while delivering glass thereto and then returning the receptacle into similar delivering relation to a succeeding mold.

1,756,494. SHUTTLE-SPINDLE PIVOT. FRANKLIN ROBINSON, Paterson, N. J. Filed Feb. 9, 1929. Serial No. 338,706. 3 Claims. (Cl. 139—208.)



2. In a shuttle spindle pivot, a pivot pin, an unthreaded head upon one end of said pin, said pin directly inwardly of the head being provided with a threaded enlargement, the opposite end of said pin being formed with a threaded socket, a threaded plug adapted for threaded engagement within the socket, and a threaded head upon the outer end of said plug.

1,756,495. WEEDER. ARCHIE ROWLEY, Havre, Mont. Filed Jan. 31, 1929. Serial No. 336,525. 1 Claim. (Cl. 97—40.)



An agricultural machine including a frame, wheels for supporting the rear end of the frame, bearings at the forward end of the frame, elongated shafts extending through the bearings, wheels at the lower ends of the elongated shafts, said bearings adapted to slide over the elongated shafts, a shaft supported within the frame, drums on the shaft, cables wound on the drums, means for anchoring the cables tothe upper ends of the shafts, means for rotating the drums to wind the cables on the drums to raise the forward end of the frame, and a rotary cutting member supported on the frame for cutting vegetation over which the machine is moving.

1,756,496. WINDOW SCREEN. PHILIP WARNICK, Elizabeth, N. J. Filed Apr. 23, 1929. Serial No. 357,382. 4 Claims. (Cl. 156—39.)

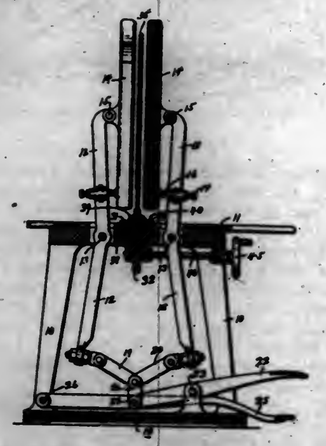


1. A device for clamping the side edges of a window screen comprising a stationary plate provided with a flange, a movable plate provided with a flange, a link pivoted on said stationary plate, means pivotally connected with said link to bear against the movable plate to cause the latter to move laterally when said link is rotated.

1,756,497. METHOD OF TREATING ALFALFA, CLOVER, AND OTHER HARD-SHELLED SEEDS TO PROMOTE PROMPT GERMINATION AND REMOVE WEED SEEDS THEREFROM. HARRY R. WARREN, Chicago, Ill., assignor to Warren-Teed Seed Company, Chicago, Ill., a Corporation of Nevada. Filed Nov. 15, 1928. Serial No. 319,718. 23 Claims. (Cl. 47—58.)

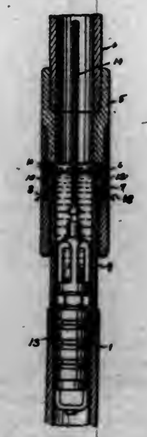
21. In a method of treating seeds of the same kind but of varying degrees of hardness to secure uniform germination, the steps of soaking the seeds in a glucose solution, separating out the seeeds that are swelled by such soaking, moderately scarifying the remaining seeds, soaking the scarified seeds in a glucose solution, separating out the seeds that are swelled by such second soaking, and drying the separated seeds, whereby a glucose coating is left thereon.

1,756,498. HOSIERY PRESS. BASIL J. YANCHENKO, New York, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed July 8, 1926. Serial No. 121,160. 10 Claims. (Cl. 223—17.)



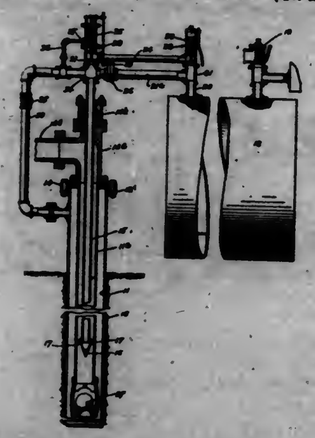
1. A press comprising in combination, a frame, cooperating press jaws pivoted therein with their meeting press faces disposed vertically, a table carried on the frame and beneath the press jaws, said table being provided with a lengthwise guide slot therein vertically below the pressing plane of the jaws and extending substantially the length of the jaws, a carrier movable in the guide slot, garment forms mounted on the carrier and projecting up through the slot and supported in pressing position thereby, means to move the carrier, and operating means to open and close the press jaws.

1,756,499. TUBING DRAIN. WILLIAM H. ALLEN and MORRIS E. STANDIFER, Goose Creek, Tex. Filed Dec. 27, 1927. Serial No. 242,944. 3 Claims. (Cl. 103—221.)



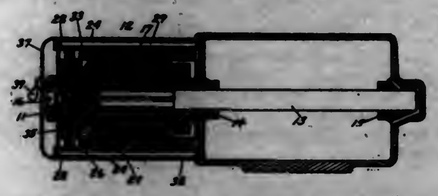
1. A device of the character described having a tubing provided with a drain passageway and including relatively rotatable parts having means effective to open and close said passageway, said means being characterised by the provision of oppositely disposed coacting seats and operative connections whereby one of said seats may be positively moved away from the other seat and positively moved in to and held in seated relation with said other seat.

1,756,500. APPARATUS FOR EXHAUSTING WELLS. CHARLES A. ANDERSON, Los Angeles, Calif. Filed May 22, 1928. Serial No. 279,764. 1 Claim. (Cl. 103—231.)



An apparatus for lifting liquids from deep wells comprising an induction pipe extending downwardly into said well below the fluid level therein, a discharge nozzle at the lower end of said induction pipe, an eduction pipe extending downwardly around the induction pipe to a point below the nozzle, a check valve at the lower end of said eduction pipe, said well having a casing with a closed upper end downwardly into which said eduction and induction pipes extend, an air reservoir adapted to contain air under pressure, means connecting the upper end of the well casing and the induction pipe with said reservoir, a valve controlling said connection, means whereby said valve will be automatically opened when the pressure in said reservoir reaches a predetermined pressure, means whereby said valve will be automatically closed and the well casing placed in communication with the atmosphere when the pressure in said reservoir drops below a predetermined pressure.

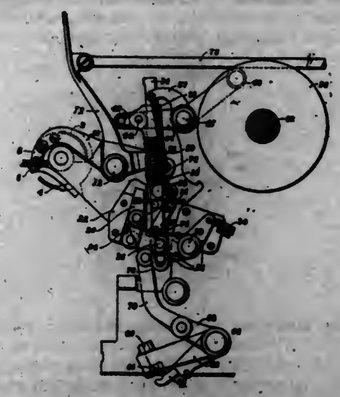
1,756,501. DYNAMO-ELECTRIC MACHINE. VINCENT G. APPLE, Dayton, Ohio. Filed Feb. 7, 1928. Serial No. 252,589. 12 Claims. (Cl. 172—36.)



1. A dynamo electric machine field element comprising, a core of magnetic material, a winding thereon and extending beyond the end thereof, a perforated metal cylinder surrounding said extending end at some distance therefrom, and a mass of insulation molded thru and about said extending end, and between said extending end and said cylinder and thru the perforations in said cylinder, to bind the whole together, into a unitary structure, wherein necessary parts are insulated one from another.

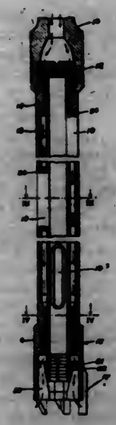
1,756,502. PRESSER-FOOT MECHANISM FOR SEWING MACHINES. FRED ASHWORTH, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 19, 1919, Serial No. 291,267. Renewed July 18, 1928. 9 Claims. (Cl. 112—61.)

1. A sewing machine having, in combination, stitch forming devices, a work support, a presser foot, a presser foot carrier, a wedge block and connections between the same and the presser foot carrier, a locking wedge block for engaging the first wedge block, means for moving the lock-



ing wedge block to lock and unlock the carrier during each cycle and operations, a pull-off and connections between the locking wedge block and the pull-off for varying the thread drawing off action of the pull-off.

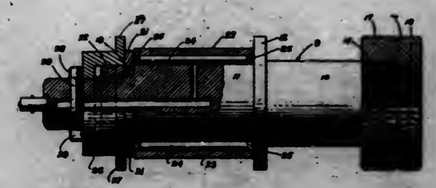
1,756,503. CORE DRILL. REUBEN C. BAKER, Coalinga, Calif., assignor to Baker Oil Tools, Inc., a Corporation of California. Filed Jan. 31, 1928. Serial No. 250,829. 5 Claims. (Cl. 255—72.)



1. A well drill including a body having a longitudinally disposed chamber formed therein, said chamber being open at its lower end, a bit at the lower end of said body adapted to cut away an annular area at the perimeter of the bore leaving a portion of formation in alignment with the chamber of an area permitting it to enter the chamber as the drill is advanced through formation, means permitting circulating fluid to be discharged downwardly through the body without gaining access to said chamber, said body having a plurality of comparatively large openings formed therethrough at spaced intervals along its length exposing formation in the chamber to circulating fluid passing along the body exteriorly of the body.

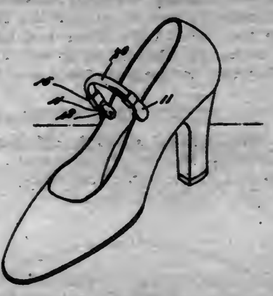
1,756,504. WRIST PIN. REUBEN C. BAKER, Coalinga, Calif. Filed Jan. 30 1929. Serial No. 336,047. 7 Claims. (Cl. 74—38.)

7. A wrist pin comprising a wrist pin body, a flange arranged intermediate the ends of the same to divide the body into a crank bearing portion and a pitman bearing portion, the outer extremity of the pitman bearing portion being reduced in diameter, a sleeve arranged over the pitman bearing portion, a plurality of rollers interposed between the sleeve and the pitman bearing portion, means



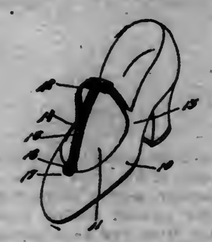
retaining the sleeve and rollers in position, a retainer collar arranged over the reduced end, said retainer collar having a flange cooperating with the flange on the body to retain a pitman bearing therebetween, and means removably securing said retainer collar in position.

1,756,505. SHOE STRAP. FREDERICK A. BALLOU, Nayatt, R. I., assignor to B. A. Ballou & Co. Inc., Providence, R. I., a Corporation of Rhode Island. Filed Feb. 6, 1928. Serial No. 252,214. 6 Claims. (Cl. 36—58.5.)



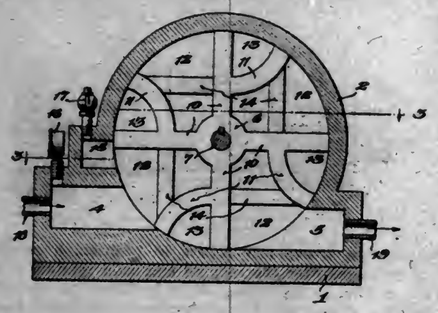
1. An extendible shoe strap having an attaching member at each of its ends, an extendible core connected to said attaching members, and a flexible tubular sleeve secured to and covering said core substantially from one clip to the other.

1,756,506. SHOE STRAP. FREDERICK A. BALLOU, Nayatt, and ROGERS T. STAFFORD, East Providence, R. I., assignors to B. A. Ballou & Co., Inc., Providence, R. I., a Corporation of Rhode Island. Filed Apr. 13, 1928. Serial No. 269,837. 4 Claims. (Cl. 36—58.5.)



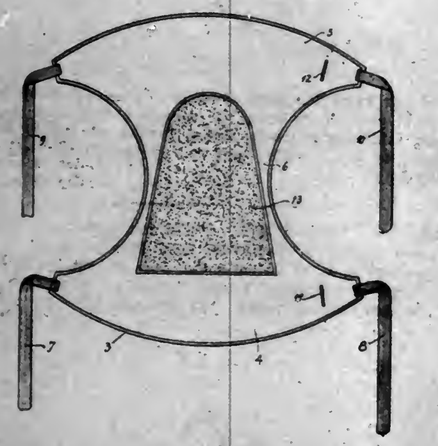
1. In combination, a shoe having a foot opening with an instep strap extending across from one side of the shoe to the other, a connecting strap extending from the forward edge of the foot opening to said instep strap, means for detachably securing the connecting strap to said instep strap, and means for detachably securing said connecting strap to the forward edge of said foot opening.

1,756,507. VACUUM DEVICE. JOHN A. BELHUMEUR, Esmond, R. I. Filed Mar. 8, 1929. Serial No. 345,876. 8 Claims. (Cl. 230—134.)



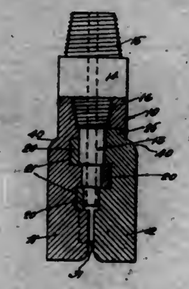
1. A vacuum device of the character described comprising a cylinder having an inlet, an outlet opposite to and disposed on a plane lower than said inlet, an air relief chamber formed in said cylinder above said inlet having a valve controlled relief port, a rotor in the cylinder having a hub, a plurality of radially extending arms carried by said hub and disposed at right angles to each other, and an arm carried by each of said radially extending arms intermediate the ends of the latter and having its free end curved outwardly whereby to provide alternate large and small chambers having their inner ends closed.

1,756,508. SWADDLING CLOTH. MADELEINE BERSIN, Colonia del Valle, Mexico. Filed June 12, 1928. Serial No. 284,800. 1 Claim. (Cl. 128—284.)



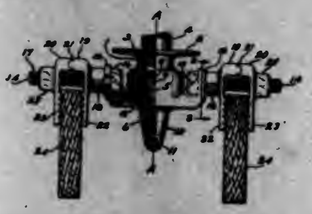
A swaddling cloth including tapered front and back sections, the outer ends of which are cut on outwardly curved lines, an intermediate section connecting the front and back sections, and opposed flexible elements secured to the corners of the front and back sections, said sections having slots adjacent the corners thereof on the same side of a medial longitudinal line through the cloth, one of the flexible elements of each section extending through the slot adjacent the opposite corner of said section around the body of a child in one direction, and the other element of each section being extensible about the body in an opposite direction and secured to the first named element of said section.

1,756,509. EXPANDING DRILL OR REAMER. STEWART L. CAMPBELL, Berkeley, Calif., assignor to John Grant, Los Angeles, Calif. Filed Feb. 14, 1928. Serial No. 254,241. 9 Claims. (Cl. 255—76.)



1. In an expansive tool of the character described, a substantially cylindric body, a cutting element integral with the body and lying substantially in a plane radial to the central vertical axis of the body, a central pivot mandrel extending down through and below the body and screw-threadedly mounted therein, the inner edge of said cutting element having a bearing lug through which the lower part of the pivot mandrel passes and by which it is supported, another cutting element lying substantially in a plane radial to said central vertical axis and having spaced bearing lugs surrounding the pivot mandrel, whereby said last mentioned cutting element is swingingly supported upon the pivot mandrel to swing about the central vertical axis of the body.

1,756,510. SUPPORT FOR CONDUCTORS. HOMER P. CHANDLER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 9, 1928. Serial No. 311,357. 7 Claims. (Cl. 191—35.)



1. A conductor support comprising an inverted cup-shaped member provided with means to secure it to an overhead support and means to secure the conductor to the said member in insulated relation thereto, integrally and diametrically disposed means projecting upwardly from the inverted edge of the member and each provided with an open end slot, a headed and threaded member disposed in each slot and projecting therefrom and having a substantially common axis, rotatable means on the threaded portion to secure each headed member to its supporting means, a pair of separately formed holding members slidably and rotatably mounted on each headed member, means on each of the holding members to engage and grip an insulating member and hold the said means in fixed relation to the conductor, and means on the holding members to engage and permit the member to pivot about said engaging means and rotating means on each headed member to force the holding members together and into holding relation with the insulating member.

1,756,511. FIREPLACE. HARRY P. DOWLER, Clearfield, Pa. Filed Oct. 13, 1928. Serial No. 312,283. 1 Claim. (Cl. 126—121.)

A sectional fireplace comprising a fire box section, a smoke dome section, a smoke pipe section and a casing,

a U-flange formed along the upper front edge of said casing a depending lip formed along the lower front edge of said smoke dome section adapted to be received within said U-flange to interlock casing and said smoke dome section in assembled position, a skirt formed on said smoke pipe section adapted to seat over the upper end of said



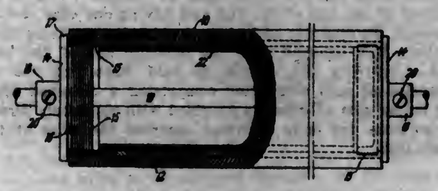
smoke dome section when in assembled position, the front surfaces of said smoke dome section and said smoke pipe section extending in approximately the same plane from the front of said fireplace to the back thereof, a damper in said fire box section, and all of said sections being so formed that they may nest one within the other when dismantled.

1,756,512. VARIABLE CONDENSER. WILLIAM DUBILIER, New York, N. Y., assignor to Dubilier Condenser Corporation, a Corporation of Delaware. Filed Jan. 16, 1924. Serial No. 686,547. 3 Claims. (Cl. 175—41.5.)



1. A variable condenser comprising a fixed element, a movable element, a shaft, means operated by the shaft for actuating the movable element, an operating knob for said shaft, a spring for pressing the movable element against the fixed element, a screw in the shaft for regulating the tension of the spring, and an operating knob for the screw.

1,756,513. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 13, 1928. Serial No. 269,628. 9 Claims. (Cl. 197—147.)



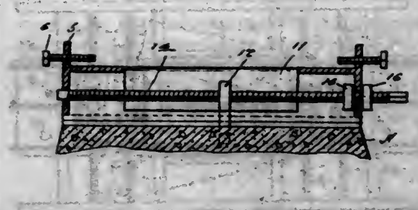
1. In a typewriter-platen, a core of rubber-coated metal tubing, and means to deaden sound vibrations transmitted within the metal tube, said means including a single-coated varnished paper-sheeting to be loosely rolled up to form a plurality of layers and to be inserted into the tube so as to hug the inner surface thereof due to the tendency of the coated side of the paper to expand with sufficient tension to insure a firm contact against the tube.

1,756,514. CLAMP FOR POSITIONING METALLIC CURB EDGING. CHARLES S. HEMPSTEAD, New Salem, Pa., assignor of one-half to William B. Wharton, Pittsburgh, Pa. Filed Oct. 31, 1928. Serial No. 316,292. 2 Claims. (Cl. 25—118.)



1. In combination with a curbing-form a clamp including a central portion seated on the curbing-form and an end portion extending downwardly from one end thereof and spaced from the inner surface of said curbing-form, together with an inturned portion extending from said end portion into contact and cooperating with the said inner surface of the curbing-form.

1,756,515. ADJUSTABLE MOTOR BASE. JENNINGS T. HULSEY, Webb City, Mo. Filed May 5, 1928. Serial No. 275,461. 2 Claims. (Cl. 248—15.)



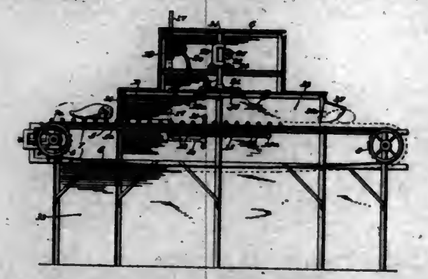
1. In an adjustable base for electric motors, comprising a pair of bearing plates, a hollow base provided with laterally disposed supporting flanges, said flanges being adapted to rest on said bearing plates and for slidable relation thereon, an upwardly projecting member adapted to be fixed in a suitable foundation, guide means on said hollow base for engagement with the upwardly projecting member and a threaded member extending longitudinally through said base and through said upwardly projecting member, whereby the base may be shifted upon said bearing plate when the same is rotated.

1,756,516. CUTTING TOOL. HANS KLOPSTOCK, Berlin, Germany. Filed Nov. 14, 1928, Serial No. 674,672, and in Germany Jan. 15, 1923. 3 Claims. (Cl. 29—95.)



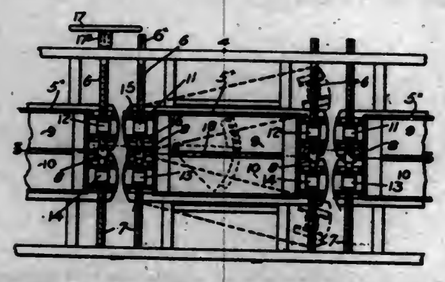
1. A metal cutting tool, the upper face of which is provided with intersecting blunt cutting edges, each of said cutting edges being formed by a strip, said strips having a shoulder parallel to said cutting edges, a depressed portion being formed back of said shoulders and a fillet connecting the shoulder and depressed portion, said fillet being of smaller radius than would be worn by a chip in a face without a depression.

1,756,517. MEAT-WASHING MACHINE. FLOYD A. KNIGHT and CLELL E. ROWE, Cedar Rapids, Iowa. Filed Apr. 21, 1928. Serial No. 271,786. 7 Claims. (Cl. 146—194.)



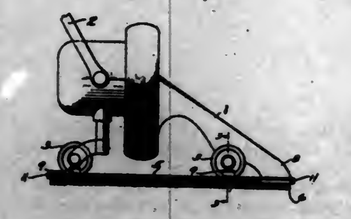
3. In a meat-washer, the combination with a conveyor, a spraying head extending diagonally across the conveyor, and provided with a series of spray nozzles directed toward said conveyor.

1,756,518. CARGO-DISCHARGING APPARATUS. LEVY MCMILLAN, Toronto, Ontario, Canada. Filed Jan. 29, 1929. Serial No. 335,871. 5 Claims. (Cl. 214—15.)



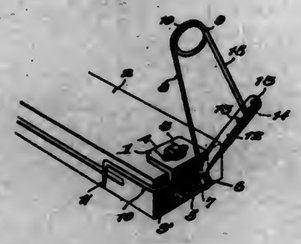
5. In a cargo discharging apparatus for cargo boats, the combination with a discharge hopper located beneath the cargo space, of a framework carried beneath the hopper, a pair of doors located beneath the hopper mouth and forming a closure therefor, a pair of spaced apart slotted flanges extending from the upper face of each door at each side of the longitudinal centre thereof, threaded spindles mounted in the frame and extending through the slots of the door, each formed by members having right and left hand threaded portions, a universal joint connection connecting the inner ends of the threaded members together, and a nut mounted on the right and left hand threaded portion of each member and located between the flanges of the corresponding door.

1,756,519. ATTACHMENT FOR SUCTION CLEANERS. THOMAS J. MOORE, Lake Ronkonkoma, N. Y., assignor to Samuel E. Kimball, New York, N. Y. Filed Apr. 21, 1928. Serial No. 271,669. 2 Claims. (Cl. 15—246.)



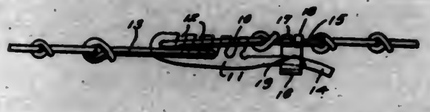
1. The combination with a portable suction floor cleaner having ground-wheels for engaging the floor and provided at one end with a suction-nozzle, of a floor rubbing device comprising a member having an area substantially sufficient to include said ground-wheels when placed beneath said cleaner and to receive the weight of the superimposed cleaner, one edge of said member being cut away to fit around said nozzle, said member being provided with releasable fasteners for removably engaging said cleaner to hold it in place, the under side of said member being provided with rubbing means for engaging and acting upon the floor.

1,756,520. LOOM TEMPLE. HARRY J. MYERS, Central Falls, R. I. Filed Feb. 9, 1929. Serial No. 338,844. 7 Claims. (Cl. 139—195.)



4. A loom temple attachment including a substantially U-shaped spring arm having a selvage loop retainer on the inner side thereof, means to pivotally connect the arm to the temple box, stop means engageable with the arm to limit pivotal movement thereof in one direction, and a strap pivoted to the temple box and connected to the outer side of the arm above said pivotal point of the strap to yieldably hold the arm engaged with the stop means.

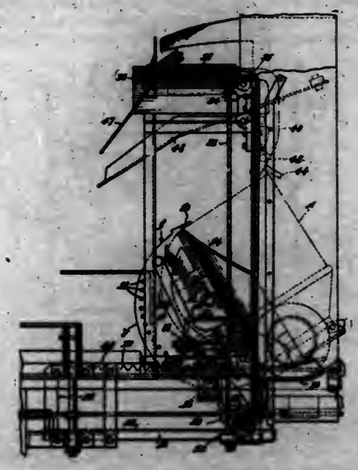
1,756,521. CHAIN CONNECTER. HENRY NISCHKE, South Milwaukee, Wis., assignor of one-half to Anton Hartmann, Wescott, Wis. Filed July 17, 1928. Serial No. 293,828. 3 Claims. (Cl. 24—70.)



1. A chain fastener comprising an elongated link, a bar pivoted to one end of the link and having one edge thereof notched, the opposite end of the bar having an elongation, a chain link engaged with the opposite end of the link, and a securing clip carried by said chain link for the reception of said elongation comprising a J-shaped plate the longer arm of which is provided with oppositely directed portions the ends of which embrace the sides of the chain link.

1,756,522. CAN-EJECTING MECHANISM. WALTER H. PAULSON, Chicago, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Filed July 16, 1928. Serial No. 293,018. 13 Claims. (Cl. 29—84.)

1. The combination in a can washing machine of a pivotally mounted can reversing cradle adapted to be rotated for reversing a can from inverted to upright position; a can ejecting member pivotally mounted upon said cradle and adapted upon actuation to project outwardly from the can engaging surface of said cradle; and means



for actuating said can ejecting member during the final stage of each can reversing operation, substantially as described.

1,756,523. MOVING DISPLAY SIGN. LOUISE R. PORTS, Troutdale, Oreg. Filed Dec. 11, 1928. Serial No. 325,289. 4 Claims. (Cl. 40—97.)



1. In a device of the class described, the combination of a case, display panels disposed in oppositely disposed sides of the case, endless chains disposed about supporting elements disposed within oppositely disposed ends of the case, a driving element for the chains, a multiple of display sign boards hingedly mounted upon the endless chains and adapted for displaying below the bottom edge of the case in continuous display as the chains are rotated about the supporting elements and a disk secured to one of the upper stub shafts disposed at the outer end of the display case and a display disposed upon the disk and said display disposed so as to appear and disappear as the disk is rotated.

1,756,524. EXPANSIVE REAMER AND DRILL. JAMES J. SANTIAGO, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif. Filed Dec. 27, 1927. Serial No. 242,747. 11 Claims. (Cl. 255—76.)

1. In a combined reamer and drill, the combination of a body, a reaming cutter offset to one side of the body axis, a drill of the flat type mounted on the body, and the mountings of the drill and reaming cutter being such that they may be relatively rotated about the central longitudinal axis of the body between positions where the drill bit is substantially in the plane of offset of the reaming cutter and where the drill bit is substantially perpendicular to that plane.

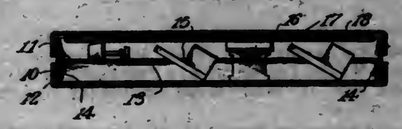


1,756,525. STOCKING-PROTECTING FOOTWEAR. ARISTEDE A. THEODOROPULOS, New York, N. Y. Filed Apr. 4, 1928. Serial No. 267,217. 2 Claims. (Cl. 2—61.)



1. An elastic stocking protector comprising a protector member having a foot portion, a pair of strings extended along opposite edges of the foot portion, and attached at their ends to the foot portion, an arch strap having its ends slidably connected to the said strings so as to be movable along the lengths of the strings, a plurality of strings attached to the foot portion along the lengths of the first mentioned strings, and other strings attached to the arch strap, and tied to the nearest strings of the second mentioned strings so as to hold the arch member as positioned along the first mentioned strings.

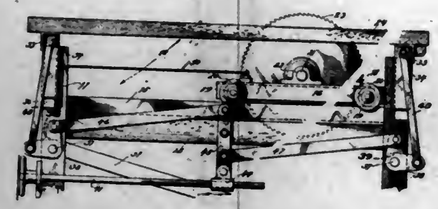
1,756,526. TOY HOUSE. ANDREW THOMPSON, Niagara Falls, N. Y., assignor to The Embossing Company, Albany, N. Y., a Corporation of New York. Filed May 19, 1928. Serial No. 278,953. 3 Claims. (Cl. 46—37.)



1. A collapsible toy house comprising a shallow box having two lids, in one of which the box is removably ar-

ranged bottom up, vertical outer walls consisting of a foldable strip of cardboard inserted between the sides of the box and the adjacent sides of the said lid and supported thereby, and the other lid fitted down over the top of the walls, said foldable strip being adapted when folded to be housed in the box when the house is collapsed.

1,756,527. POWER-SAW. HIRAM F. THOMPSON, Oakland, Calif. Filed May 3, 1926. Serial No. 106,217. 2 Claims. (Cl. 143—132.)



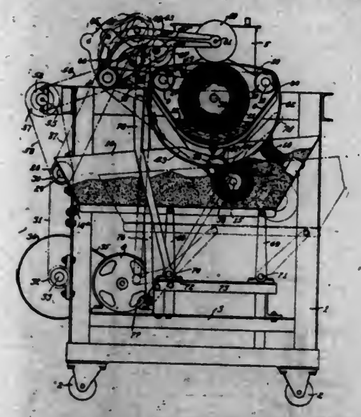
2. A saw table comprising a portable main frame, a table top supported by the frame, transverse members arranged adjacent the ends of the frame and upon which said table top rests, a hinge connection between the table top and one of said transverse members, guide means associated with said transverse members and said main frame whereby the former may be adjusted vertically relative to the saw, and operative means for vertically adjusting said transverse members in unison, said means comprising shafts extending transversely of the frame at the opposite ends thereof, bell crank levers at one end of each shaft, a crank arm at the other end of each shaft, connecting rods connecting the bell crank levers to said transverse members, connecting rods connecting the crank arms to the transverse members whereby rotation of said shafts will impart vertical movement to said transverse members, a centrally pivoted lever carried by the frame intermediate said shafts, links connecting the bell cranks to opposite ends of said lever whereby swinging movement of the lever will impart swinging movement to the bell cranks and consequently the shafts in unison, a feed nut pivotally connected to one end of said lever, a screw shaft carried by the frame and engaging said feed nut whereby rotation of the screw shaft will cause swinging movement of said lever and consequently impart vertical movement to said table top through the medium of said shafts and connecting rods.

1,756,528. LACQUER. DEXTER J. TIGHT, San Francisco, Calif., assignor to R. N. Nason & Co., San Francisco, Calif., a Corporation of California. Filed June 3, 1924. Serial No. 717,553. 6 Claims. (Cl. 134—79.)

4. The method of manufacturing an improved nitrocellulose lacquer consisting of treating a known lacquer by a process including the adding of a pigment which is transparent or semi-transparent in the film so that when the improved lacquer is applied to a surface in a finishing or coating operation, the same will dry with a dull substantially flat transparent finish.

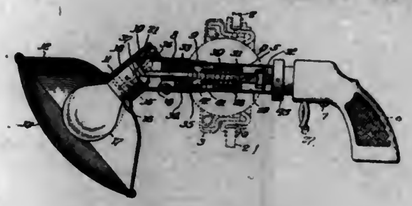
1,756,529. APPARATUS FOR TREATING TIRE BANDS. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan. Filed Sept. 17, 1926. Serial No. 136,117. 13 Claims. (Cl. 91—41.)

1. A machine for coating an annular article with coating composition comprising supporting means for carrying an annular article suspended therefrom, means for actuating the supporting means whereby the article is carried in rotary movement, means for applying a fluid



coating composition to one surface of the article, and means for applying a non-fluid coating composition to another surface of the article.

1,756,530. SPOTLIGHT. GEDOR W. ALDEEN, Rockford Ill., assignor to Fyrac Manufacturing Co., Rockford, Ill., a Corporation of Illinois. Filed Feb. 12, 1927. Serial No. 167,633. 4 Claims. (Cl. 240—41.)

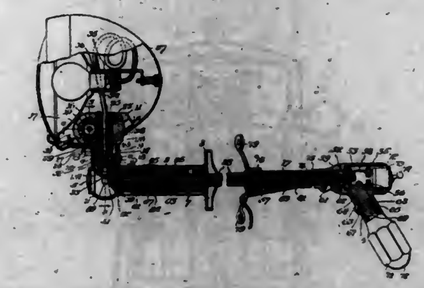


1. A device of the character described comprising, a reflector, a hollow elbow bracket having one arm extending from the rear of said reflector and secured relatively thereto and having another arm arranged at an oblique angle to the first arm, a lamp socket member slidably mounted in the first said arm, means engaged with said bracket for sliding said socket member back and forth in said bracket whereby to adjust the focus of a lamp with respect to said reflector, means mounted in said second arm slidable at an oblique angle to the axis of said socket member for maintaining electrical contact with a lamp carried by said socket during movements of the latter, and a spring in said second arm for urging said contact means toward said lamp.

1,756,531. POST LIGHT. GEDOR W. ALDEEN and EDWIN W. NORTH, Rockford, Ill., assignors to Fyrac Manufacturing Co., Rockford, Ill., a Corporation of Illinois. Filed May 12, 1928. Serial No. 277,165. 8 Claims. (Cl. 240—61.)

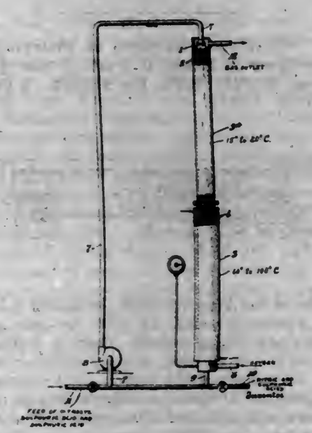
1. In a light of the character described, an elbow shaped tubular bracket adapted to be fixedly secured to a support, a hollow sleeve within the outer end of said bracket having a gear secured to its inner end and a head on its other end external of the bracket, said sleeve, head and gear being rotatable together, a second hollow sleeve rotatably mounted within the first said sleeve and head and having a gear secured to its inner end adjacent the first said gear and a worm gear secured to its other end within

said head, a lamp casing pivotally mounted on a pivot extending through said head on an axis perpendicular the axis of said sleeves, means gearing said pivot mounting to said worm gear, and two independently operable



means extending through the inner end of said bracket adapted for driving separately the first said gears for rotating their respective sleeves simultaneously but independently of each other.

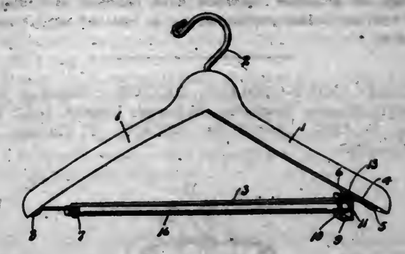
1,756,532. MANUFACTURE OF NITRIC ACID. MARTIN BATTEGAY, Mulhouse, Haut-Rhin, France, assignor, by mesne assignments, to The Calco Chemical Company, Inc., a Corporation of Delaware. Filed Feb. 8, 1927, Serial No. 165,594, and in France Oct. 19, 1926. 21 Claims. (Cl. 23—159.)



12. The process which consists in forming nitric acid by the oxidation of a nitrosyl sulphuric acid solution formed by dissolving nitrogen peroxide in sulphuric acid by means of oxygen led in countercurrent in a column into the liquid nitrosyl sulphuric acid and sulphuric acid so that the oxygen acts directly upon the nitrosyl sulphuric acid, the oxygen being supplied in such excess as to avoid the presence of oxides of nitrogen at the top of the column.

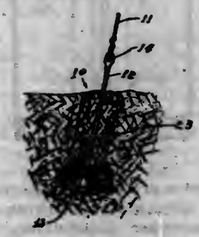
1,756,533. PANTS HANGER. CARL T. BATTS, Grand Rapids, Mich. Filed Jan. 30, 1928. Serial No. 250,362. 6 Claims. (Cl. 223—62.)

1. A pants hanger comprising, a wire rod having means at its ends adapting it for attachment to a coat hanger, said rod adjacent one end thereof being formed into a U-shaped seat open at its upper side, a U-shaped sheet metal stirrup mounted on the rod adjacent the other end thereof and depending below the same, and a second rod larger in cross sectional area than said wire rod having one end thereof connected with said stirrup below said



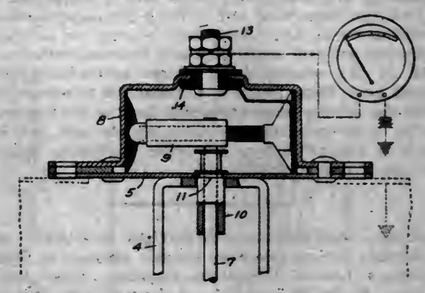
wire rod, the opposite free end of said second rod being adapted to detachably connect with said seat for the purposes described.

1,756,534. CONE ANCHOR. ALBERT B. CHANCE, Centralia, Mo. Filed June 27, 1927. Serial No. 201,685. 2 Claims. (Cl. 189—90.)



1. In an anchoring device for guy wires and the like, the combination of a metal member having an upper portion of the shape of a frustrum of relatively steep slope with a smooth outer surface and a lower outside portion of the shape of a frustrum of less slope, said member having a tension member axially attached to said member, whereby said upper portion is adapted to wedge a filling against the walls of a hole to form a compact ring of filling above said lower portion, and the said lower portion of said member is adapted to exert a substantially less wedging effort on said filling than the wedging effort exerted by the said upper portion.

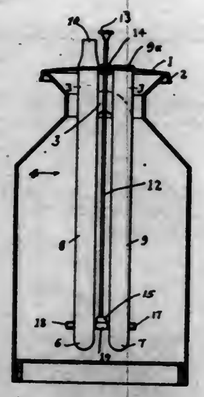
1,756,535. RHEOSTAT TANK FITTING ASSEMBLY. MOSES E. CHENEY, La Crosse, Wis., assignor, by mesne assignments, to Moto Meter Gauge & Equipment Corporation, Long Island City, N. Y., a Corporation of Delaware. Filed Apr. 11, 1929. Serial No. 354,874. 6 Claims. (Cl. 201—48.)



6. The combination of a gasoline tank with a rheostat chamber adjacent said tank and subject to the vapors from gasoline in said tank; a wiper in said chamber; a float-operated member extending from the tank into said rheostat chamber and actuating said wiper; said member

being controlled by the buoyancy of the gasoline in said tank; and a plain bearing for said member permitting seepage of gasoline between said bearing and member, said bearing being supported by a wall of said rheostat chamber.

1,756,536. MILK-COOLING DEVICE. HERMAN CLEVENGER, Monroe Township, Delaware County, Ind. Filed Dec. 8, 1927. Serial No. 238,630. 2 Claims. (Cl. 257—199.)



1. A cooler device of the kind described, comprising a support member adapted to constitute a closure of the opening in the container, a circulatory conduit having a return bend therein and whose adjacent body portions are extended in parallelism and spaced apart, thence by return bends that are directed at right angle to the first named bend, being extended in parallelism and spaced apart from each other and from the first named body portions, and through and being secured to said support member, and a reciprocatory stirrer having transverse arms operable between the opposed faces of the body portions of the said conduit.

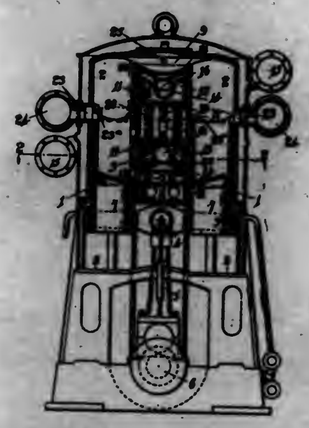
1,756,537. SEPARATION OF MONONITRONAPHTHALENE DISULPHONIC ACIDS. WILLIAM J. COTTON, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 13, 1926. Serial No. 88,149. 13 Claims. (Cl. 260—159.)

1. In the separation of 2-nitronaphthalene-4.8-disulphonic acid from another nitronaphthalene disulphonic acid, the process which comprises treating a hot solution containing said disulphonic acids with a magnesium salt to form the magnesium salt of the 2-nitronaphthalene-4.8-disulphonic acid, and subsequently cooling the solution to crystallize out said magnesium salt from said solution.

13. In the separation of 2-nitronaphthalene-4.8-disulphonic acid from isomeric nitronaphthalene-disulphonic acids, the process which comprises forming the magnesium salt of 2-nitronaphthalene-4.8-disulphonic acid and causing it to crystallize from a solution containing about 20 per cent of free sulphuric acid.

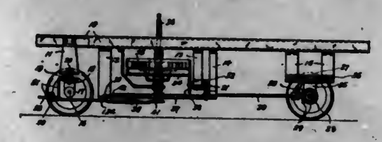
1,756,538. INTERNAL-COMBUSTION ENGINE. ADAM CRAIGON, Toronto, Ontario, Canada, assignor to Craigon Engines Limited, Hamilton, Canada. Filed Aug. 9, 1928. Serial No. 298,524. 6 Claims. (Cl. 123—53.)

5. In an internal combustion engine, the combination of a cylinder; a piston movable therein; a combustion chamber laterally offset relative to, and having a port communicating with, the cylinder; a piston valve forming one wall of the combustion chamber; a cylinder parallel to the engine cylinder forming a guide for the piston valve and having a port in its wall, the said piston valve being adapted to control the communication between said port and the interior of the engine cylinder; a port in the



engine cylinder wall remote from the combustion chamber and controllable by the piston; a passage through the piston valve forming a communication between the combustion chamber and the port in the valve cylinder wall; and a poppet valve controlling said passage.

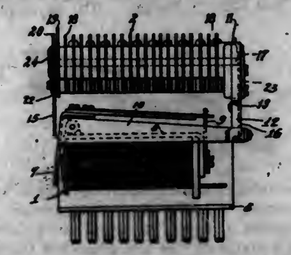
1,756,539. VEHICLE. RAYMOND DE FILIPPIS, Brooklyn, N. Y., assignor to Hanna D. Findley, New York, N. Y. Filed Aug. 5, 1927. Serial No. 210,877. 1 Claim. (Cl. 46—48.)



A vehicle of the type set forth, including a body, front and rear wheels therefor, an axle for one set of the wheels, said axle being movable about a vertical axis to steer the vehicle, a steering member rotating in synchronism with the wheels of the vehicle, said steering member having a plurality of cams of different design, and means engaging the said axle and a selected one of said cams, said means being resiliently mounted for disengagement with one of the cams and engagement with another of the cams, said axle and said body having coacting brackets to support the body on the axle, and a pin passing through said brackets to form the vertical pivot mentioned, one of said brackets having a convex portion about the pin, said convex portion having bearing relation with the other bracket about the pin, to permit the axle to tilt laterally.

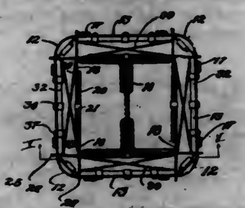
1,756,540. ELECTROMAGNETIC SWITCH. FRITZ DÖRING, Berlin-Frohnau, and KONRAD MÜLLER, Berlin-Siemensstadt, Germany, assignors to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Oct. 11, 1926, Serial No. 140,811, and in Germany Feb. 18, 1926. 3 Claims. (Cl. 200—105.)

1. In a sequence switch, a switch cylinder, a plurality of cams mounted on said cylinder, a motor magnet for operating said cylinder, two cooperating L-shaped brackets, projecting means on said brackets for mounting said cylinder and motor magnet with the axis of one parallel to the axis of the other, and a plurality of spring contact



sets arranged in rows on both sides of said cylinder and mounted on said brackets in operative relation with said cams.

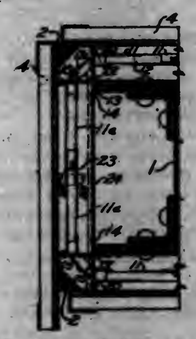
1,756,541. MEANS FOR FORMING PLASTIC COLUMNS. EDMUND BERNARD DOWD, Chicago, Ill. Filed July 31, 1926. Serial No. 126,144. 22 Claims. (Cl. 25—118.)



12. Means for forming plastic material about an inner structure to provide a composite column, including lagging comprising corner sections, intermediate sections complemental to said corner sections, spacing bands to embrace said inner structure said spacing bands having projections engageable with said corner sections, angular members disposed intermediate said projections adjacent said intermediate sections, clips for detachably securing said angular members to said adjacent sections, and struts tensioned between said bands and intermediate members.

21. Means for forming plastic material about an inner core, including side and corner sections of lagging, and means mountable within said lagging for centering the same with respect to said core and for engaging said lagging to support the same around said core in spaced relationship thereto, said lagging being removable from said means without injury to said plastic material to leave a casting having a periphery of said plastic material.

1,756,542. FORMING MEANS FOR COMPOSITE COLUMNS AND THE LIKE. EDMUND BERNARD DOWD, Chicago, Ill. Filed May 21, 1927. Serial No. 193,218. 17 Claims. (Cl. 25—118.)



9. As an article of manufacture, an element comprising an angular extended portion, a portion at substantially

right angles thereto having a loop therein, an angularly bent channel portion on said second mentioned portion, and spaced projections on said second mentioned portion adapted to engage an object therebetween, said element being adjustably engageable with similar elements to provide reinforcing means.

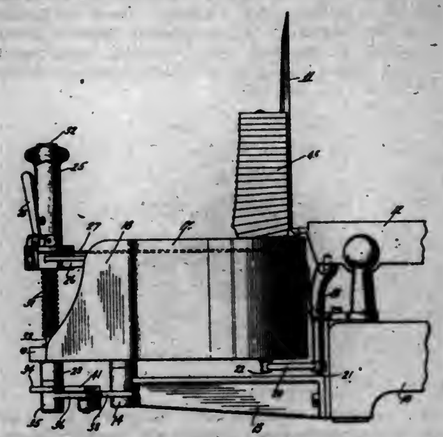
16. Means for forming plastic material to provide a column, including corner supports, adjustable bands for generally outlining said column, and means associated with said bands for attaching the same in spaced relationship to said supports, said means providing a gage line on an outer portion of said supports.

1,756,543. AUTOMATIC TIME SWITCH. BENJAMIN F. FLEGEL and FREDERICK W. FLEGEL, Racine, Wis. Filed May 22, 1926. Serial No. 110,971. 5 Claims. (Cl. 200—40.)



1. An automatic time switch, comprising a time mechanism having a winding shaft and a timing sleeve thereabout, a time indicating dial adjustably mounted on and carried by the sleeve, outwardly and inwardly offset hands adjustably carried by the dial, a rotary electric switch adjacent the time mechanism and having an outwardly projecting shaft, a frame, a spring mechanism carried by said frame and having a tubular shaft connection with the switch shaft and also having a star wheel with offset fingers, some of said fingers being offset outwardly and other of said fingers being offset inwardly, stud shafts projecting from the frame, independent stop members journaled on the stud shafts of said frame and having segmental stop flanges positioned in the paths of movement of the offset fingers and engaged thereby and also having projections in the paths of movement of the offset hands and engaged thereby to trip the fingers and permit the spring mechanism to turn the switch to on or off position, and independent spring members yieldingly maintaining the projections and the flanges in finger and hand engaging position.

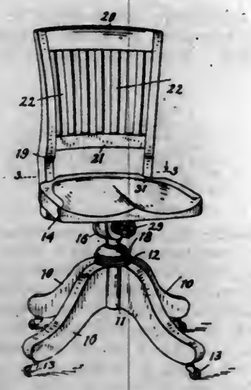
1,756,544. MECHANISM FOR ASSEMBLING SLICES. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Aug. 16, 1926, Serial No. 129,327. Renewed Sept. 19, 1929. 23 Claims. (Cl. 146—94.)



1. The combination with a slicing machine, of a receiver for slices formed by said machine, means for directing

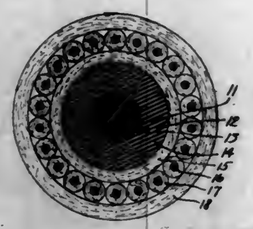
said slices onto said receiver as they are formed, means for rotating said receiver about an upright axis, an adjusting means removed from the axis of rotation of said receiver, mechanism connected to said adjusting means and operable through rotation of said receiver to actuate said adjusting means.

1,756,545. CHAIR CONSTRUCTION. FRANK F. FORTNEY, Bedford, Ohio, assignor to The B. L. Marble Chair Company, Bedford, Ohio, a Corporation of Ohio. Filed June 7, 1928. Serial No. 283,498. 2 Claims. (Cl. 155—157.)



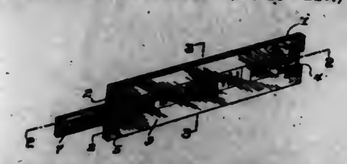
1. A chair construction of the type described comprising a seat member, and a back member adapted to be movably associated therewith under spring tension and having post portions normally lying adjacent the edges of the seat so that the seat and back are in the proper relative positions, said seat being provided with recesses adjacent the post portions, and said post portions being disposed so that a substantial clearance space is provided between the edges of the recesses and the front face of each post portion when the seat and back are in the normal position, the edges of the recesses and the front face of each post portion being so arranged as to cooperate to effect a cam action during forward movement of the back to normal position, whereby the fingers of the chair occupant will be pushed into the said clearance space.

1,756,546. SUBMARINE CABLE. JOHN J. GILBERT, Port Washington, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1923. Serial No. 680,170. 4 Claims. (Cl. 178—63.)



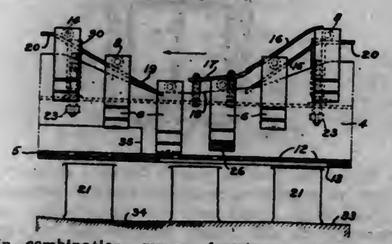
1. A submarine signaling cable comprising a signaling conductor or conductors, armor wires spaced therefrom and composed of material having a resistivity of twenty microhms per centimeter cube or more.

1,756,547. INTERCHANGEABLE NAME PLATE. OSWALD HANSEN, New York, N. Y. Filed Jan. 25, 1929. Serial No. 334,917. 3 Claims. (Cl. 40—140.)



1. An interchangeable name plate provided with spaced reinforcing strips forming a longitudinally extending centrally disposed channel, transparent celluloid sheets secured to said strips at the opposite sides thereof to provide a substantially rigid casing having oppositely disposed windows, outwardly turned guide lips formed in the sheets at the ends of said channel, and adapted to receive a plurality of interchangeable letters in said channel.

1,756,548. CAN-FILLING MACHINE. OSWALD H. HANSEN, Milwaukee, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed Aug. 9, 1926. Serial No. 127,986. 8 Claims. (Cl. 226—100.)



1. In combination, means forming a single annular series of measuring pockets each having an outlet, means for revolving said pockets about an axis, means for supplying the same kind of material to all of said pockets, means for transporting receptacles in succession about the same axis so that each receptacle is exposed directly to the outlet of several of said pockets, and means for delivering the contents of said pockets to said receptacles through said outlets.

1,756,549. PROCESS OF STERILIZING FOOD. OSWALD H. HANSEN, Cedarburg, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed June 15, 1929. Serial No. 371,303. 10 Claims. (Cl. 99—8.)

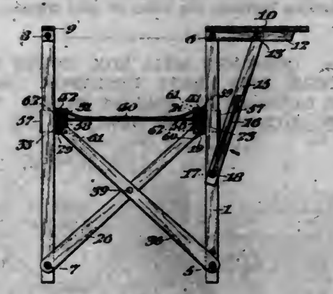
1. The process of sterilizing, which comprises, heating granular solids alone to sterilizing temperature, and cooling the sterilized solids by admitting sterile liquid to the voids thereof.

1,756,550. PROCESS OF STERILIZING FOOD. OSWALD H. HANSEN, Cedarburg, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed June 15, 1929. Serial No. 371,304. 9 Claims. (Cl. 99—8.)

6. The process of sterilizing, which comprises, heating batches of granular solids alone in succession to temperatures below the sterilizing temperature of the solids, and subsequently admitting to the voids of each batch sufficient liquid of temperature sufficiently high to effect complete sterilization of the batches of mixture.

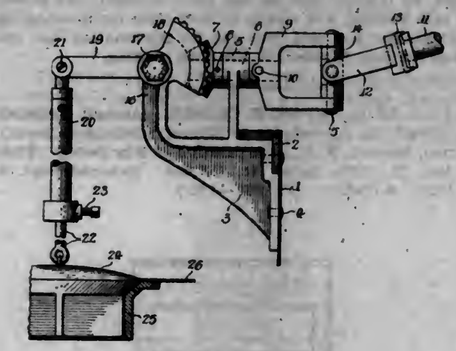
1,756,551. CHAIR. THOMAS R. HAYES, Monrovia, Calif. Filed Feb. 2, 1928. Serial No. 251,285. 5 Claims. (Cl. 155—140.)

1. A collapsible chair comprising relatively movable frames having leg stiles upon which rider plates having relatively normal inturned flanges forming a pocket are arranged to slide, a seat rail rigidly connecting the oppositely disposed rider plates and arranged to support a seat



formed of flexible material, and a locking bar floatingly engaged in said pocket and rotatably associated with said rider plates arranged to frictionally engage said rider plates with said leg stiles.

1,756,552. VALVE-OPERATING MECHANISM. LEONARD F. HEITZ, Lake Mills, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1928. Serial No. 306,221. 1 Claim. (Cl. 137—21.)

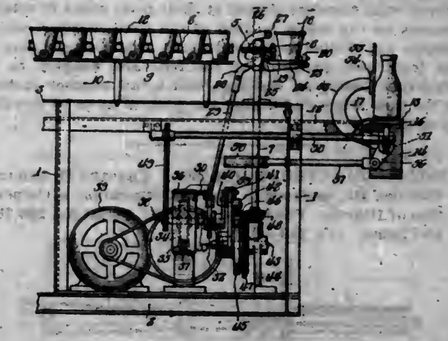


In combination with a weigh can having a valve controlled outlet, a bracket supported on said weigh can, a gear segment operatively mounted on said bracket and having an extended arm, a connection from said arm to said valve, a pinion in operative mesh with said gear segment, and a shaft having a bearing on said bracket and operatively supporting said pinion, said shaft having universally swingable means for manual rotation thereof.

1,756,553. UNLOADING MECHANISM FOR BOTTLE WASHERS. IRVING R. HIPPENMEYER, Waukesha, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed July 18, 1927. Serial No. 206,483. 2 Claims. (Cl. 198—20.)

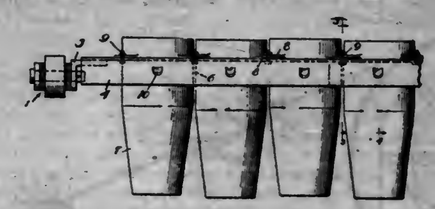
1. In a bottle washing apparatus, an intermittently operable belt, a series of bottle pockets having lateral hinged attachment to said belt, a stationary track adapted to support said pockets in upright position, said track having a separable section adapted to be lowered whereby

a group of bottle pockets thereby supported may be lowered to invert said pockets, and a bar mounted in rigid



relation to said movable section of track and adapted to engage said pockets to force them down following the lowering of said section of track.

1,756,554. BOTTLE-WASHING MACHINE. IRVING R. HIPPENMEYER, Waukesha, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 10, 1928. Serial No. 318,319. 2 Claims. (Cl. 198—131.)



1. In a bottle washing machine, a bottle conveyor comprising a pair of spaced belts, a plurality of successively arranged cross members mounted on said belts, said cross members being channel shaped and provided with a series of openings in the web portion thereof, and a series of bottle pockets respectively secured in said openings, the flanges of said channel shaped cross members extending laterally adjacent the walls of said pockets and having portions thereof in abutment with said pocket walls.

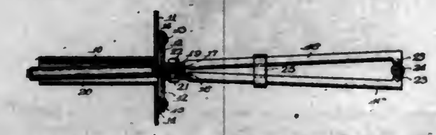
1,756,555. TOY ANIMAL. HELEN SARGENT HITCHCOCK, New York, N. Y. Original application filed Aug. 28, 1925, Serial No. 53,066, Patent No. 1,681,537, dated Aug. 21, 1928. Divided and this application filed July 31, 1928. Serial No. 296,441. 2 Claims. (Cl. 46—40.)



2. A toy bird, of the aquatic class, comprising a flat base on which the members of the bird may be mounted, a front vertically-inclined member of flat thin material and

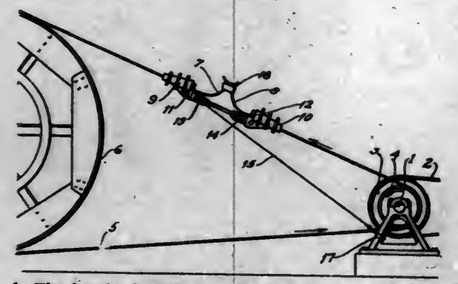
shaped to represent the head, long neck and breast or body of the bird, said front member having a tongue at its lower end which is pivoted in a slot in said flat base, lateral curved wing members slotted at their front edges to receive tongues on the breast portion of the front member, which tongues are pivoted in the slots, said wings being widest at the front and narrower at the rear and adapted to be supported loosely on the base, and a tail member pivoted to the base below and behind the wing so as to be movable up or down.

1,756,556. ELECTRODE HOLDER. CHARLES H. HOLLUP, Chicago, Ill., assignor to Hollup Corporation, a Corporation of Illinois. Filed July 18, 1928. Serial No. 293,761. 12 Claims. (Cl. 219—8.)



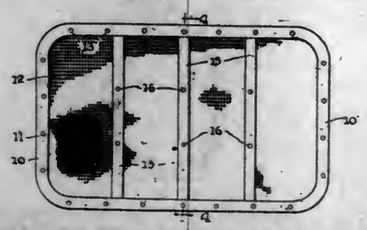
1. An electrode holder comprising a metal clamp, a heat insulating member to which said clamp is secured and a handle also secured to said heat insulating member at a point remote from said clamp.

1,756,557. BELT TIGHTENER. WILLIAM E. HORNER, Ranger, Tex., assignor to Lory J. Mildren, Ponca City, Okla. Filed Jan. 8, 1929. Serial No. 331,142. 5 Claims. (Cl. 254—53.)



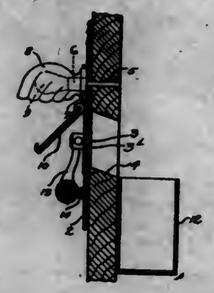
1. The herein described method of tightening belts supported by a power pulley and a driven pulley which consists in clamping the two ends of the belt, fastening one end of a rope or cable to one of the clamps, passing it back and forth through the pulleys carried by the clamps, fastening the other end of the rope or cable to an anchor and utilizing the power pulley to cause the belt to travel in a direction to move the clamps away from the anchor to thereby draw the clamps together by the tension of the anchored portion of the rope or cable so that the two ends of the belt will be in position to be clamped together.

1,756,558. BAKING TRAY. ARTHUR KATZINGER, Glencoe, Ill., assignor to Edward Katzinger Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1927. Serial No. 240,730. 4 Claims. (Cl. 53—6.)



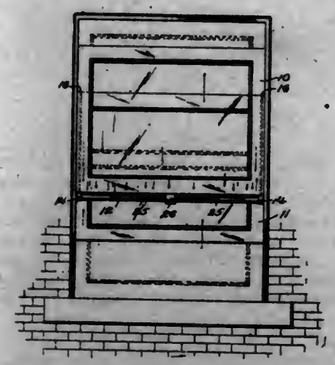
1. In a tray for baking hard-crusted breads, the combination with a relatively fine meshed bottom for contact with the dough, supported by and in contact with a relatively coarse meshed bottom, a frame composed of strap metal rebent longitudinally to form parallel spaced flanges enclosing and gripping the sides and ends of said bottoms, and reinforcing means between the sides and ends of said bottom constituting transverse bars riveted to said bottoms and extending between the sides of said frame.

1,756,559. COMBINED MAIL BOX, HOUSE NUMBER, KNOCKER, AND LIGHT THEREFOR. EDWARD J. KNAPP, La Grange, Ill. Filed Oct. 28, 1926. Serial No. 144,607. 1 Claim. (Cl. 40—130.)



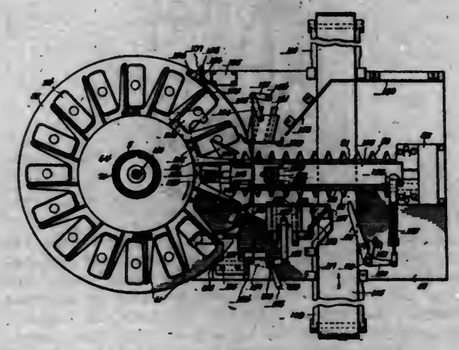
In a device of the class described, a plate adapted for securement to a wall having an opening therethrough, said plate having a slot therethrough for registering with the opening in the wall, a door hinged to said plate to close the said slot, indicia on said door, a knocker hinged to said plate, an integral boss on said plate to receive the impact of said knocker, and means on said plate for illuminating said knocker and said door and for illuminating said slot when the door is raised to the open position.

1,756,560. WINDOW CLOSER. ADOLPH KRUEGER, Newark, N. J., assignor to Marvel Specialties Corporation, Newark, N. J., a Corporation of New Jersey. Filed Apr. 21, 1927, Serial No. 185,633. Renewed Sept. 4, 1929. 6 Claims. (Cl. 268—123.)



1. A window closer comprising a spring closing means, a connection operated by the closing means and connecting the closing means and a suitable anchor, the connection thus acting to put the means under tension when the window is open, a trip for releasing the closing means and a gutter to direct rain from the window to the trip to expedite the accumulation of water to operate the trip.

1,756,561. APPARATUS FOR FILLING AND CAPPING BOTTLES. OLAF LARSEN, Fort Atkinson, Wis., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Original application filed Mar. 3, 1924, Serial No. 696,456. Divided and this application filed Oct. 7, 1926. Serial No. 139,960. 3 Claims. (Cl. 198—213.)



1. In apparatus of the class described, the combination of a stationary table, a helical blade rotatable on a horizontal axis adjacent the surface of said table, said blade being adapted to laterally receive bottles between its convolutions and slide them along the surface of said table, a retaining guide positioned laterally of a portion of said blade, and a belt conveyor positioned on the surface of said table beneath and transversely of said blade, said conveyor being operable to carry bottles into engagement with said blade and so retain them until engaged by said retaining guide.

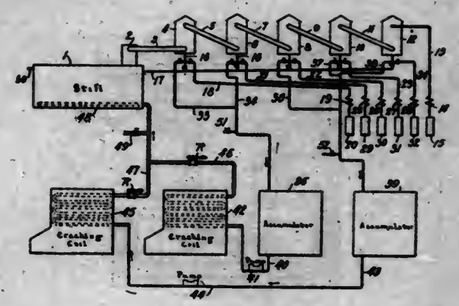
1,756,562. ELECTRIC SOCKET. WILLIAM LINDSAY, Chicago, Ill., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill., a Corporation of New York. Filed Feb. 25, 1928. Serial No. 256,850. 7 Claims. (Cl. 173—362.)



1. In an electric socket, in combination, a two-part housing comprising a cap and a skirt, means within said housing for supporting circuit connector means, and resilient latch members secured to said cap and having latching engagement with said supporting means, said supporting means having shoulder means, said latch members having movable extremities, said skirt having a portion adapted to exert a force upon said extremities to bend same about said shoulder means.

1,756,563. ART OF CRACKING HYDROCARBONS. LOUIS LINK, Baton Rouge, La., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed May 28, 1923. Serial No. 641,825. 8 Claims. (Cl. 196—48.)

6. Process for converting hydrocarbon oils, comprising distilling a body of the oil, passing vapors formed thereby through a series of fractional condensation zones, accumulating separate bodies of condensate from such condensation zones, simultaneously cracking such bodies of condensate in separate cracking zones, and passing the cracked product into the body of oil undergoing distillation.



1,756,564. METHOD FOR PREPARING MATS FOR USE IN MAKING PRINTING PLATES. EARLE MARTIN, Cleveland, Ohio. Filed Aug. 9, 1929. Serial No. 384,780. 2 Claims. (Cl. 91—54.3.)

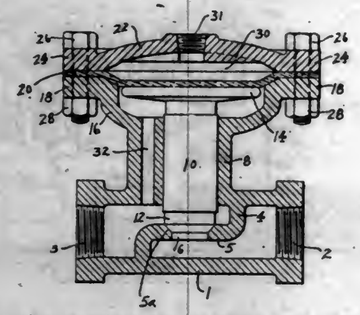
1. The hereindescribed method of preparing mats for use in making printing plates, which consists in stacking a plurality of pairs of mats with the mats of each pair face-to-face, and with moisture-containing pads between the respective pairs and then maintaining the stack in a substantially saturated atmosphere in a closed chamber at a temperature above freezing for a sufficient time to permit the mats to become thoroughly and uniformly moistened throughout, and then freezing the mats.

1,756,565. SCENIC DISPLAY DEVICE. CONRAD B. MAURER and HOWARD P. MAURER, Philadelphia, Pa. Filed Feb. 18, 1929. Serial No. 340,716. 2 Claims. (Cl. 40—126.)



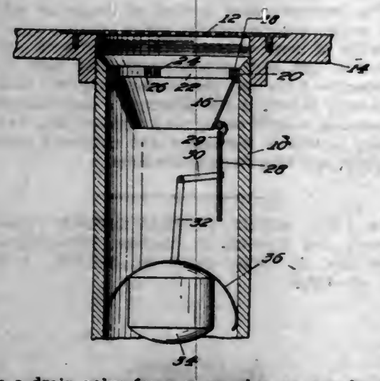
1. A device of the character stated comprising a base, a pair of standards rising therefrom, a shaft provided with a roughened surface rotatable between said standards, means for driving said shaft, mountain scenery arranged around the front and sides of said standards with an elongated open space at the front of the device, and an endless belt of pliable fabric, a textile material as silver cloth secured to one face of said belt throughout its entire length but loosely applied at intervals to provide an effect symbolic of a water fall during belt operation.

1,756,566. COOLING-FLUID-CONTROL VALVE. JULIUS C. MOODY, Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 1, 1928. Serial No. 258,214. 9 Claims. (Cl. 230—212.)



1. A valve structure for regulating the cooling fluid in a gas compressing system comprising a casing providing a chamber forming a conduit for said fluid, a valve for controlling said conduit, and means whereby movement of said valve is controlled solely by the pressure of said cooling fluid and of said gas.

1,756,567. CHECK VALVE. RAGNAR PEARSON, Chicago, Ill. Filed Jan. 3, 1928. Serial No. 244,212. 3 Claims. (Cl. 182—14.)



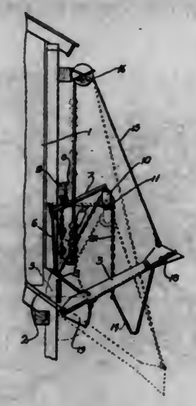
1. In a drain valve for a sewer pipe, an annular member adapted to be fitted into the interior of the upper end of the pipe, a gate hingedly attached to the lower end of the annular member, a float within the pipe and link means of connection between the gate and the float, and spring guide means for maintaining the direction of motion of the float vertically along the vertical axis of the pipe.

1,756,568. METALLIC WELDING ROD. HARRY R. PENNINGTON, Chicago, Ill., assignor to Hollup Corporation, a Corporation of Illinois. Filed Aug. 4, 1927, Serial No. 210,571. Renewed Mar. 12, 1930. 1 Claim. (Cl. 219—8.)



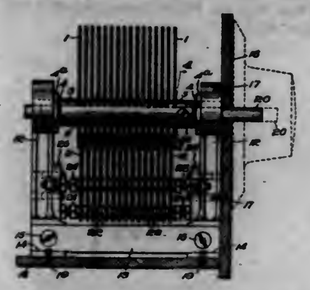
A welding rod comprising two lengths of welding metal, one length being of base metal and the other being an alloy of mechanically workable metal, enclosing said first length and mechanically secured to the exterior thereof.

1,756,569. SAFETY CUT-OFF FOR COAL CHUTES. MAX POWELL, Chicago, Ill., assignor to Ogle Construction Company, a Corporation of Illinois. Filed Sept. 5, 1925. Serial No. 54,686. 2 Claims. (Cl. 193—20.)



1. In a coal loading apparatus, a coal storage bin, a stationary coal chute extending therefrom, a swingable gate for closing said chute at an intermediate point, a movable chute pivoted to said stationary chute, a safety coal cut off member secured to an intermediate part of said movable chute for closing the mouth of said stationary chute when said movable chute is elevated, and yieldable means connecting the said movable chute and the said swingable gate for substantially simultaneous movement to prevent or to permit the escape of coal from the bin.

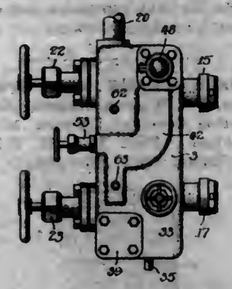
1,756,570. ELECTRIC-CIRCUIT TUNING DEVICE. WILLIAM A. READY, Brookline, Mass. Filed Oct. 23, 1926. Serial No. 143,718. 7 Claims. (Cl. 175—41.5.)



1. An electric circuit tuning device having a hollow shaft provided with a slit, a tuning plate member carried by said shaft and plate fastening means integral with said plate member, said plate fastening means passing through the slit in the hollow shaft and a portion thereof being upset against the inner face of the bore of the shaft, thereby positively interlocking said tuning plate member with said shaft.

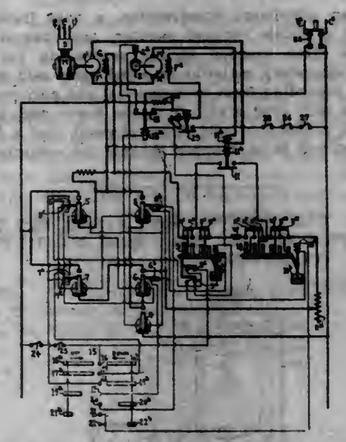
1,756,571. REFRIGERANT-COMPRESSOR-CONTROL MANIFOLD. JOHN C. SCOVEL, Jr., Chicago, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1928. Serial No. 311,827. 8 Claims. (Cl. 230—239.)

1. A device of the class described, comprising a manifold body having a suction chamber, an antechamber, a discharge chamber and an oil trap chamber, and having a by-pass passage connecting said discharge chamber with said antechamber and a by-pass passage connecting said oil trap chamber with said suction chamber, said body having a port interconnecting said suction chamber and said antechamber and a port interconnecting said discharge chamber and said oil trap chamber, said body having means for the connection of said suction chamber



and said discharge chamber respectively with the suction port and the discharge port of a refrigerant compressor, and having means for the connection of said antechamber and said oil trap chamber respectively with the suction line and the discharge line of a refrigerant circulating system, and valve means for severally controlling said by-pass passages and said interconnecting ports.

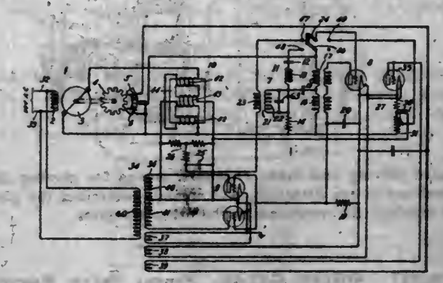
1,756,572. MOTOR-CONTROL SYSTEM. EDWIN W. SEEGER, Milwaukee, Wis., assignor, by mesne assignments, to Cutler-Hammer Inc., Milwaukee, Wis., a Corporation of Delaware. Filed Sept. 21, 1925. Serial No. 57,513. 8 Claims. (Cl. 172—239.)



1. The combination with a motor and a generator for supplying current thereto, of a sectional resistance connected in the field circuit of said generator, a device for excluding certain sections of said resistance from the field circuit of said generator to accelerate said motor, and means acting independently of said device for shunting certain of the resistance sections controlled by said device when the current supplied to said motor by said generator exceeds a given value.

1,756,573. REGULATOR SYSTEM. HUGH M. STOLLER, Mountain Lakes, and GEORGE C. PORTER, Midland Park, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 20, 1928. Serial No. 307,189. 18 Claims. (Cl. 171—119.)

1. A speed regulator system comprising a motor having stator and rotor windings, a source of alternating current having the frequency thereof varied according to the motor speed, means for varying the phase of the current from said source according to the frequency thereof, a detector space-discharge device having space current supplied thereto by said source and having the input circuit connected



to said phase varying means, rectifier-amplifier space discharge devices controlled by said detector device, and an inductive reactance in the circuit of said rotor winding controlled by said rectifier-amplifier devices for maintaining the motor speed constant.

1,756,574. VITAMINE PRODUCT AND PROCESS OF OBTAINING THE SAME. JOKICHI TAKAMINE, deceased, Passaic, N. J., by Caroline Takamine, administratrix, New York, N. Y., and Jokichi Takamine, jr., Clifton, N. J., and Nobuchika Fujita, Tokyo, Japan, assignors to Takamine Ferment Company, New York, N. Y., a Corporation of West Virginia. Filed Apr. 18, 1924. Serial No. 707,543. 11 Claims. (Cl. 167—81.)

11. The process which consists in propagating a fungus growth upon a culture medium, and extracting the vitamine and other soluble substances contained in the mass, then separating the vitamine substances from the liquid and treating the same with barium hydrate, then removing the barium content of the resulting solution and precipitating the solution with acetate of lead, then removing the lead content from the supernatant liquid and precipitating said liquid with a silver nitrate, and finally removing the metallic content from the resulting compound.

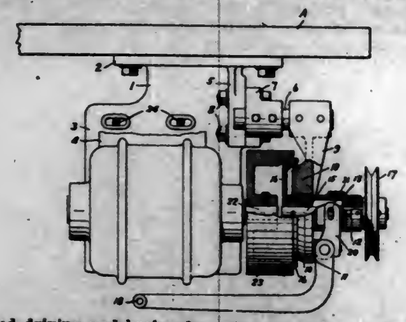
1,756,575. METHOD FOR SUBSTITUTING ALKYL GROUPS IN THE AROMATIC NUCLEUS. ALBERT VERLEY, Isle St. Denis, France. Filed July 7, 1927, Serial No. 204,141, and in France Mar. 31, 1927. 2 Claims. (Cl. 260—168.)

1. A method of obtaining a substituted aromatic derivative by the substitution of an alkyl radical for hydrogen in an aromatic nucleus, the said method consisting in allowing an alkyl sulphuric acid to react with an aromatic hydrocarbon containing the said nucleus in presence of an alkali metal pyrosulphate.

1,756,576. TRANSMISSION APPARATUS. MAX T. VOIGT, Reading, Pa., assignor, by mesne assignments, to American Safety Table Company, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1928. Serial No. 310,203. 3 Claims. (Cl. 192—18.)

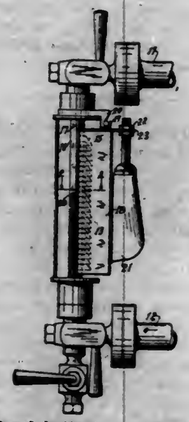
2. Transmission apparatus comprising in combination spaced driving and brake elements, a crosshead, parallel guides for the crosshead, a revoluble shaft carried by the

cross-head and provided at one end with a pulley and at the other end with a driven element arranged between the



spaced driving and brake elements, means for moving the crosshead in one direction, and springs encircling the pins for moving the crosshead in the other direction.

1,756,577. BOILER GAUGE. SYDNEY FRANK WESTON, East Putney, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Oct. 21, 1925, Serial No. 63,856, and in Great Britain Jan. 10, 1925. 8 Claims. (Cl. 73—54.)



1. In a water level indicator, a plurality of superposed inclined plates at one side of said indicator, and a light-transmitting medium mounted for illumination by rays of light passing between some of said plates.

1,756,578. GELATIN-SHEET COPYING MACHINE. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a Corporation of West Virginia. Filed July 23, 1928. Serial No. 294,608. 16 Claims. (Cl. 101—133.)



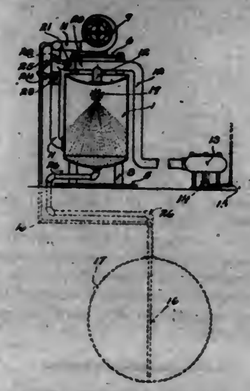
1. In a machine of the class described, a frame adapted to have mounted therein spindles carrying gelatin sheet rolls and an impression bed over which said sheet is trained for the exposure of the gelatin for copying purposes, rack teeth on each side of the said bed, and trackways associated with the said rack teeth and said rack teeth and trackways merging into a downward curved portion at the front of the machine, an impression carriage mounted on the said trackways and adapted to be moved outward and back over the said impression bed, and downwardly over the downward curved portion of said frame, gears on the said carriage on the said impression bed and engaged by the said rack teeth on the said frame.

1,756,579. BASE FRAME FOR SPRING-CUSHION SEATS. ABRAM C. WIENER, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a Corporation of Michigan. Filed Mar. 26, 1928. Serial No. 264,915. 4 Claims. (Cl. 155—180.)



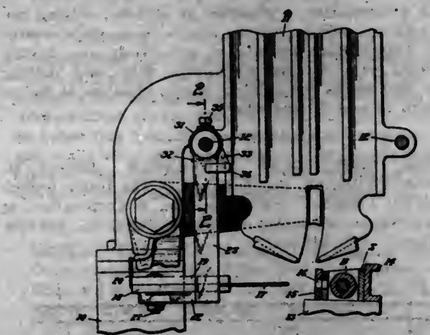
1. In an upholstery construction, a base frame consisting of a double channel member, one channel being above the other, cushion springs secured in the lower channel, upholstery material mounted upon said springs, an apron depending from said material and enclosing said springs, a welt cord attached to the lower edge of said apron and received in said upper channel, and a locking member sprung in said upper channel for retaining said welt cord.

1,756,580. CARBURETOR. JOHN ASTROM, Fort Wayne, Ind. Filed May 31, 1924. Serial No. 717,070. 2 Claims. (Cl. 261—29.)



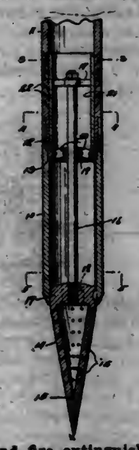
1. The combination of a fuel supply tank, a closed atomising tank located at a higher level than said supply tank, said atomising tank having an open unobstructed interior, a return pipe leading from the lower end of said atomising tank to said fuel tank, an air pipe leading into the lower portion of said atomising tank, externally located means for forcing a blast of air through said pipe into said tank, an outlet pipe leading from the upper end of said atomising tank, a fuel spray nozzle located within said atomizing tank adjacent its upper end and directed downwardly for projecting a spray of fuel downwardly in a fine mist to thereby create a mist-zone extending downwardly from said nozzle to the bottom of said tank and laterally to the sides of said tank in a cone-like formation, whereby the air is forced to pass in an upward direction through the downwardly passing mist of fuel, means for drawing fuel from said fuel tank and forcing such fuel under pressure through said nozzle, whereby the outwardly passing air entrains a mist of fuel with the fuel in a finely divided state.

1,756,581. MOUNTING FOR WEFT DETECTORS. CARL P. BERGSTROM, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1929. Serial No. 332,693. 8 Claims. (Cl. 139—269.)



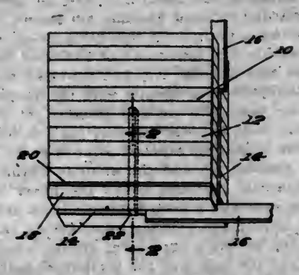
1. In a weft detector for a loom having a surface to be detected, a normally fixed member substantially parallel to the surface to be detected, a support longitudinally and angularly adjustable on the member, a weft engaging detecting element mounted on the support, and a guiding device mounted on the member and held in adjusted angular position on the member and determining the position and path of movement of the support when the latter moves in a direction away from the surface to be detected, and cooperating with the support to limit the movement of the latter along the member in the direction of the length of the latter.

1,756,582. UNDERGROUND FIRE EXTINGUISHER. JOHN W. BUTLER, McKeesport, Pa. Filed Dec. 15, 1928. Serial No. 326,195. 5 Claims. (Cl. 299—110.)



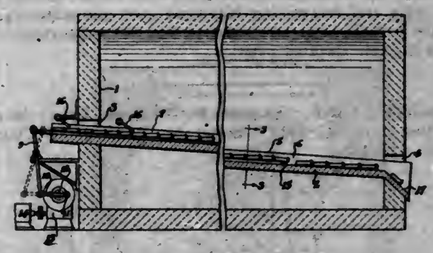
1. An underground fire extinguisher including a barrel having laterally extending perforations and open at its lower end, a hollow perforated driving point constituting the lower end of the barrel and movable vertically therein, the barrel being adapted to be connected to a source of water supply, a sleeve operatively connected to the point and when the point is projected closing the perforations in the wall of the barrel, and means acting automatically when the point is forced upward within the barrel by contact with a solid stratum to cut off the passage of water through the point and to move said sleeve to uncover the said lateral perforations, thereby permitting the passage of water through the lateral perforations of the barrel.

1,756,583. EXPANSION AND SHRINKAGE TAKE-UP IN BLOCK AND PLANK FLOORING. BROOKS W. CADWALLADER, Los Angeles, Calif. Filed Oct. 24, 1928. Serial No. 314,765. 1 Claim. (Cl. 20—7.)



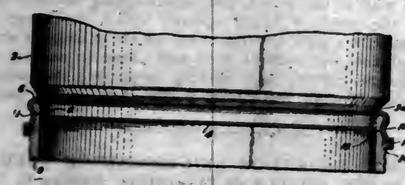
A parquetry flooring, comprising a plurality of rectangular blocks, each block composed of a plurality of parallel planks joined along their longitudinal edges, a pin passing transversely through aligned openings in the planks of each block to reinforce the same and comprise the unitary block, a groove extending around the periphery of each block adjacent the medial line thereof, splines adapted to be fitted in said grooves for joining adjacent blocks, and means in each block for absorbing horizontal compression and tensile strains in the floor, said means comprising a strip of resilient material inserted between two adjacent planks of each block.

1,756,584. MATERIAL CONVEYER FOR FURNACES. FRANK T. COPE, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a Corporation of Ohio. Original application filed Jan. 3, 1927, Serial No. 158,516. Divided and this application filed Nov. 30, 1928. Serial No. 322,804. 2 Claims. (Cl. 214—18.)



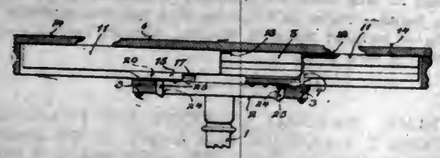
1. A material conveyer for furnaces including a hearth provided with channels to receive articles to be conveyed through the furnace, bars located in the bottoms of the channels, means for reciprocating the bars for moving articles resting thereon, and downwardly and forwardly inclined pawls mounted in the furnace having their end portions extending into the channels and resting on the articles therein, and the end portions of the pawls engaging the articles when the bars are moved backward for preventing the articles from moving backward therewith.

1,756,585. BOTTOM CONSTRUCTION FOR CANS. ROWLAND JOHN CURTIS, Dover, Ohio, assignor to The Reeves Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Nov. 10, 1927. Serial No. 232,323. 8 Claims. (Cl. 220—73.)



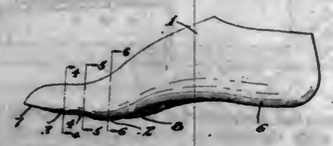
1. A sheet metal can comprising a body portion having an annular flange at its lower end and an inwardly disposed downwardly inclined annular rib spaced therefrom, a bottom having a peripheral channel portion adapted to be received within the lower end of the body and to contact with the said annular rib, and provided with an annular flange adapted to co-operate with the flange upon the body to form a seam, the inclined annular rib of the body extending over said annular channel portion for substantially its entire width, the exposed point of contact between the inclined annular rib and the annular channel portion being a substantial distance above the lower containing portion of the can, and a hoop located within said channel portion and having an annular shoulder to engage said seam, said hoop having a peripheral groove into which the lower portion of the body and the peripheral portion of the bottom are adapted to be pressed, the hoop extending downward a considerable distance beyond the seam.

1,756,586. EXTENSION TABLE. HERBERT H. DRAW, Watertown, Wis., assignor to Watertown Table-Slide Company, Watertown, Wis., a Corporation of Wisconsin. Filed Feb. 6, 1928. Serial No. 252,367. 8 Claims. (Cl. 45—113.)



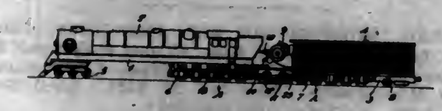
1. An extension table comprising a support, a table top rigidly mounted on said support, a vertically movable rail, a slide rail guided on said vertically movable rail, an extension leaf mounted on said slide rail, means carried by the slide rail for raising the same upon projection, and means actuated by the raising means for supporting the rails in their elevated position.

1,756,587. LAST. ERNEST W. DURKEE, Lynn, Mass. Filed July 21, 1928. Serial No. 294,446. 1 Claim. (Cl. 12—133.)



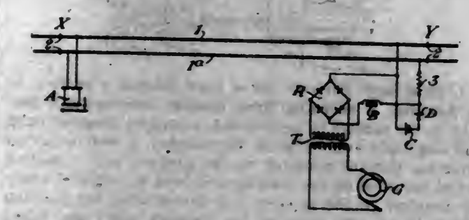
In a last of the kind described, two projections on the bottom thereof located adjacent to the inner edge of the last, one in a position corresponding to the metatarsal joint of the great toe, and the second projection located in a position corresponding to the proximal phalanx of the great toe, the first projection being of greater height and length than the second and a substantially narrow portion of the normal last bottom between said projections, whereby corresponding recesses and an intermediate ridge-like gripping portion will be formed on the insole of a shoe made on said last.

1,756,588. LOCOMOTIVE CONSISTING OF TWO VEHICLES PROVIDED WITH SEPARATE GROUPS OF WHEELS. ERIK OTTO ERIKSSON, Lidingo, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Corporation. Filed Jan. 20, 1928, Serial No. 248,230, and in Sweden Oct. 27, 1927. 13 Claims. (Cl. 105—38.)



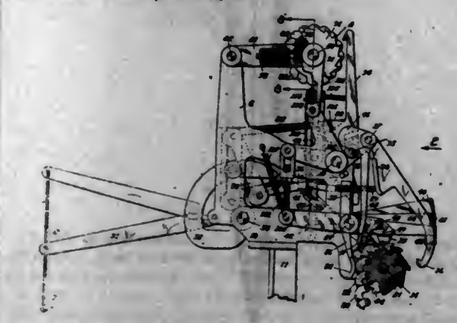
1. In a locomotive, a plurality of vehicles, driving machinery on one vehicle, driving wheels on another vehicle, motion transmitting mechanism operatively and flexibly connecting said driving machinery with said driving wheels, and means for guiding said mechanism to follow movement of said driving wheels.

1,756,589. ELECTRICAL APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1929. Serial No. 336,584. 4 Claims. (Cl. 246—41.)



1. In combination, a source of alternating current, a direct current load, a rectifier interposed between said source and said load, a reserve source of direct current also connected with said load, and an asymmetric unit connected in series with said reserve source in such direction as to prevent the output current from said rectifier from flowing through said reserve source.

1,756,590. TWO-WEAVE LOOM DOBBY. ALBERT A. GORDON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 1, 1927. Serial No. 237,071. 10 Claims. (Cl. 139—74.)



1. In a pattern mechanism for looms, a main pattern surface movable about a fixed axis, a set of fingers to cooperate therewith, an auxiliary pattern surface, means separate from the fingers to establish connection between the auxiliary pattern surface and the fingers, means to render the main pattern surface alternately operative and inoperative, and means to move and hold the auxiliary pattern surface out of controlling position with respect to the connections when the main pattern surface is operative.

1,756,591. SHEET-METAL CURTAIN ROLLER. HAROLD W. HACK, Short Hills, and JOHN M. LAYNG, Glen Ridge, N. J., assignors to Stewart Hartshorn Company, a Corporation of New Jersey. Filed Jan. 8, 1929. Serial No. 331,061. 2 Claims. (Cl. 156—36.)

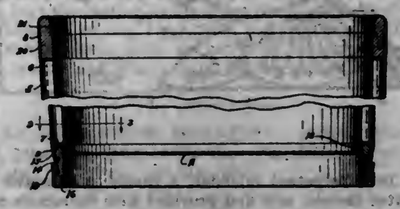


2. The combination with a metal curtain roller having a longitudinal slot the edges of which lie in the periphery of the roller and are parallel, the bottom of which is of greater area than the opening between said edges, and the sides of which are resilient, of a wooden filling strip having its outer face lying in the periphery of the roller and its side walls near said face engaged and compressed by the edges of the slot leaving the lower portion of said strip free to expand beneath said points of engagement.

1,756,592. PULLEY. FRANK G. HARRISON, Massillon, Ohio, assignor to The Spun Steel Corporation, Canton, Ohio, a Corporation of Ohio. Filed May 19, 1926. Serial No. 279,110. 2 Claims. (Cl. 64—17.)

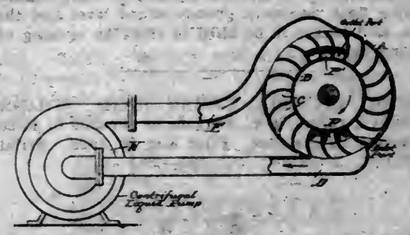
2. An adjustable V pulley and the like including an inner tubular body, an outer tubular body slidable upon the inner body, and means for securing the bodies at any desired position of adjustment with respect to each other, including circumferentially spaced angled slots in one of the bodies, and similar circumferentially spaced angular apertures in the other body, and clamping means for each aperture and slot including a bolt having a shank provided with an angular portion fitting the angular aperture and a flat side portion fitting the width of the slot.

1,756,593. BOTTOM CONSTRUCTION FOR CANS. MARTIN L. HUNKER, Dover, Ohio, assignor to The Reeves Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Dec. 6, 1927. Serial No. 238,070. 2 Claims. (Cl. 220—73.)



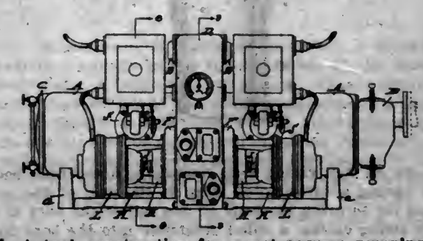
1. A sheet metal can comprising a body portion having an outturned, substantially horizontal, annular flange at its lower portion, terminating in a downturned peripheral flange, a bottom having a peripheral, upwardly disposed, inverted channel portion adapted to be received within the lower end portion of the body and to contact with said outturned flange, the inner side of the annular channel portion of the bottom being flush with the inner wall of the body, and a hoop located within the annular channel portion of the bottom and having a tapered peripheral groove into which the lower end portion of the body and the termination of the channel portion are adapted to be pressed.

1,756,594. ROTARY GAS PUMP. IRVING C. JENNINGS, South Norwalk, Conn. Filed Sept. 4, 1924, Serial No. 735,937. Renewed Jan. 24, 1928. 4 Claims. (Cl. 230—75.)



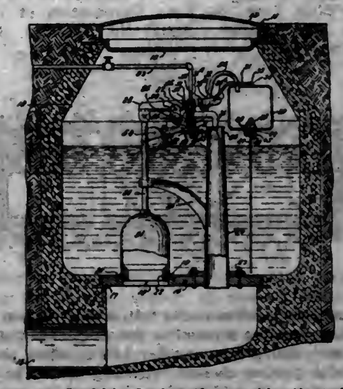
1. A rotary gas pump employing a liquid as the motivating agent, comprising a casing, a rotor therein having peripheral displacement chambers, suitable ports for allowing the fluid to be pumped to enter and leave said chambers, a pump for forcing said liquid into said casing under pressure thereby to place a pressure on said fluid, and a liquid return to the pump.

1,756,595. DUPLEX WET VACUUM PUMPING APPARATUS. IRVING C. JENNINGS, South Norwalk, Conn. Filed Sept. 6, 1927. Serial No. 217,671. 5 Claims. (Cl. 103—6.)



1. A tank construction for a wet vacuum pumping apparatus adapted to have a pumping unit secured thereto comprising a horizontally extending receiving tank for the returns, and a forwardly extending smaller supplemental receiving tank connected therewith to either or both sides of which a pumping unit can be secured.

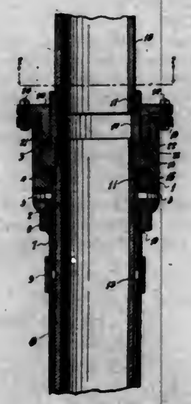
1,756,596. SEWER-FLUSHING DEVICE. LOUIS F. KATONA, Los Angeles, Calif. Filed Feb. 21, 1929. Serial No. 341,598. 21 Claims. (Cl. 182—5.)



1. In a sewer flushing device, the combination of: a well adapted to contain a body of flushing fluid and having an

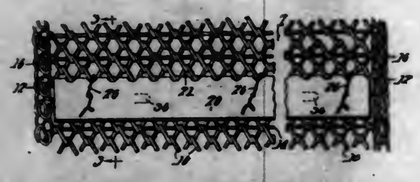
outlet communicating with a sewer; a flushing valve normally closing said outlet; valve operating means including an actuating bucket adapted to open said valve when said bucket receives a predetermined amount of water; a service water pipe line having a discharge conduit adapted to discharge service water directly into said actuating bucket; a normally closed service valve in said pipe line; and means controlled by the body of flushing fluid in said well and functioning to open said service valve when said flushing fluid reaches a predetermined level and thereby cause said bucket to be filled to effect an opening of the flushing valve.

1,756,597. OIL-WELL CASING HEAD. WILLIAM E. KENNAN, Lefors, Tex., assignor of one-half to James M. Thomas, Pampa, Tex. Filed Aug. 30, 1928. Serial No. 303,082. 3 Claims. (Cl. 285—22.)



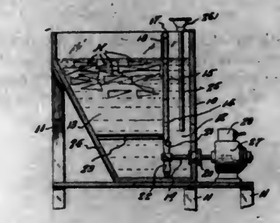
1. An oil well casing head comprising a centrally bored body having a surrounding ledge in the wall of the bore, means for securing the body at one end of the bore to an outer string casing, a collar insertible into the bore from the other end with the inner edge opposing said ledge, means for attaching an inner string casing to the collar to be supported thereby, a packing between the said inner edge of the collar and said ledge, packing surrounding the collar adjacent said inner edge, and means working between the collar and the body for compressing said last packing.

1,756,598. CONVEYER BELT. VERNON C. KING, Worcester, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y., a Corporation of Delaware. Filed June 1, 1929. Serial No. 367,681. 3 Claims. (Cl. 198—195.)



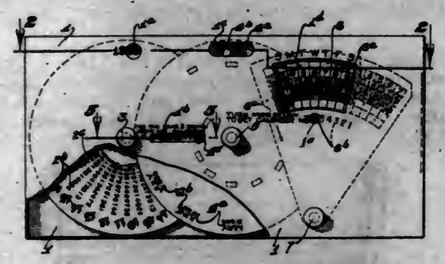
1. In an interlaced conveyor belt, a body portion, a transverse flange member secured to the work-engaging surface of said belt, said flange member having offset projections on one edge portion thereof extending below the work-engaging surface of said belt, and means to secure said flange member in position.

1,756,599. APPARATUS FOR DYEING HAT BODIES AND SIMILAR MATERIALS. KARL FRIEDRICH KRANEY, Guben, Germany. Filed Feb. 27, 1929. Serial No. 343,231. 5 Claims. (Cl. 8—19.)



1. In an apparatus for dyeing aggregate piece material, such as a plurality of hat bodies, a tub, a vertical partition extending upwardly through said tub from its bottom to subdivide the interior thereof to provide a mixing chamber and a dyeing chamber, a perforate bottom screen in the lower end of said dyeing chamber spaced above the bottom of said tub, a perforate side screen between the upper end of said dyeing chamber and said mixing chamber, said side screen forming a part of said vertical partition extending above the normal fluid level of the dye solution with which the tub is supplied, and means below the bottom screen and between said dyeing chamber and said mixing chamber for alternately circulating the dye solution in opposite directions through the bottom and side screens and between said dyeing chamber and mixing chamber, so that the piece material is alternately massed on said bottom screen subject to the flow of the dye solution therethrough and then whirled about the interior of said dyeing chamber to break up the mass and shift about the individual pieces into new relative positions.

1,756,600. PERPETUAL CALENDAR. ROYAL B. LEE, San Diego, Calif. Filed Nov. 16, 1929. Serial No. 407,761. 6 Claims. (Cl. 40—113.)



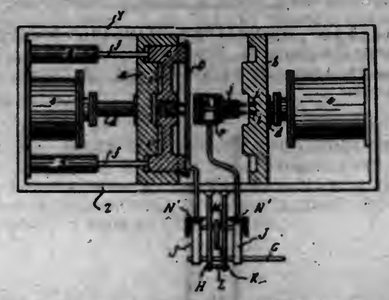
1. In a perpetual calendar, a casing, a rotatable disk mounted therein, said disk provided with characters representing the years and sets of index characters corresponding to said years, a second disk provided with characters representing months, and a slot for each month arranged to uncover a certain index character, said casing provided with openings therein adapted to expose at one time, characters representing a single year date, characters representing a single month of a year, and an index character exposed by the slot in said second disk, and a weekly calendar member arranged to be set according to the said exposed index character.

1,756,601. GAP DETECTOR FOR RAILWAY SWITCHES. ROBERT S. MCELHANEY, Barton, Ohio. Filed June 18, 1929. Serial No. 370,561. 9 Claims. (Cl. 246—476.)



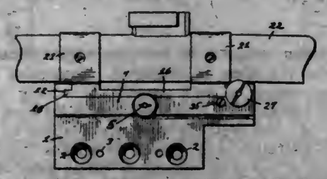
1. A gap indicating signal for railway switches or the like, comprising a vertically movable signal, rockable means for supporting said signal, and means connecting the switch and said rockable means to release the latter and thereby the signal upon accidental movement of the switch.

1,756,602. ATTACHMENT FOR CASTING MACHINES. ALBERT WOOD MORRIS, Drexel Hill, and SAMUEL PRICE WETHERILL, Jr., Haverford, Pa., assignors to Wetherill-Morris Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 22, 1929. Serial No. 365,164. 19 Claims. (Cl. 22—94.)



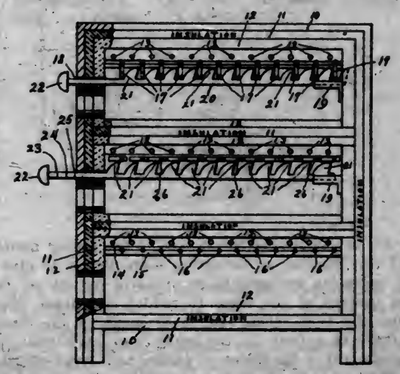
1. A casting remover comprising driving means, a casting holder adapted to enter between open mold parts and receive a casting as it is ejected from the mold, a movable frame for the holder operable to place the holder in position to take the casting and to place the holder in position to deposit the casting away from the receiving position, said driving means being mechanically connected to the holder to start and end its travel by slow and gentle movements.

1,756,603. GUN-SIGHT MOUNTING. RUDOLF NOSKE, San Francisco, Calif. Filed Sept. 19, 1927. Serial No. 220,455. 6 Claims. (Cl. 33—50.)



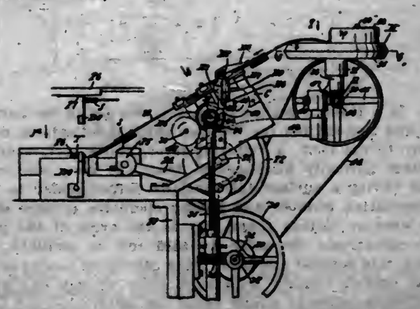
1. A gun sight mounting comprising a fixed plate arranged to be rigidly secured upon the breech of a rifle; a mounting plate arranged to be rigidly secured upon the fixed plate; a sight mounting member pivotally mounted upon the mounting plate; an adjusting screw threaded into mounting plate and engaging the sight mounting member; a retaining collar mounted upon the screw and engaging the sight mounting member; and means for rigidly securing the collar upon the screw in frictional engagement with the sight mounting member for moving said member when the screw is turned.

1,756,604. HEAT CONTROL FOR BAKE OVENS. ALBERT OBERHEIM, Charlotte, N. C.; Mabel Oberheim executrix of said Albert Oberheim, deceased. Filed Jan. 4, 1928. Serial No. 244,476. 1 Claim. (Cl. 107—55.)



In a baking oven, a baking compartment, a plurality of heating elements in the upper portion of the baking compartment, a plurality of spaced vanes pivotally mounted transversely of the baking compartment, a longitudinally slidable rod disposed beneath the vanes, a cam on the rod for each vane, said rod extending to the outside of the baking compartment, said rod being adapted to slide to cause the cams thereon to move the vanes towards a horizontal position to form a protective partition between the heating elements and the lower portion of the baking compartment.

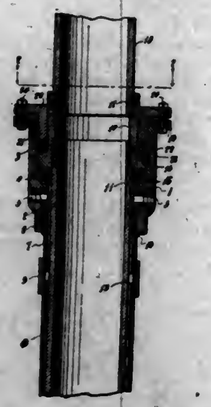
1,756,605. MECHANISM FOR COLLECTING AND FEEDING SCREW EYES. DWIGHT E. PRIEST, Worcester, Mass., assignor to Parker Wire Goods Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 26, 1928. Serial No. 295,557. 18 Claims. (Cl. 10—162.)



6. A machine for assembling and feeding screw-eyes comprising a rotatable hopper, an assembling rod projecting into said hopper and along which said screw-eyes are slidable, and a plurality of rod clamping devices effective to hold said rod in predetermined operative position, said clamping devices having projections thereon and said rod having recesses to receive said projections, whereby said rod is held from axial movement.

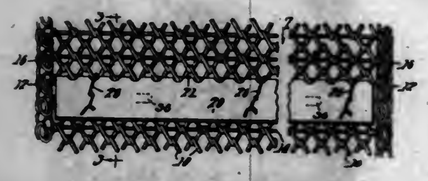
outlet communicating with a sewer; a flushing valve normally closing said outlet; valve operating means including an actuating bucket adapted to open said valve when said bucket receives a predetermined amount of water; a service water pipe line having a discharge conduit adapted to discharge service water directly into said actuating bucket; a normally closed service valve in said pipe line; and means controlled by the body of flushing fluid in said well and functioning to open said service valve when said flushing fluid reaches a predetermined level and thereby cause said bucket to be filled to effect an opening of the flushing valve.

1,756,597. OIL-WELL CASING HEAD. WILLIAM E. KEENAN, Lefors, Tex., assignor of one-half to James M. Thomas, Pampa, Tex. Filed Aug. 30, 1928. Serial No. 303,082. 3 Claims. (Cl. 285—22.)



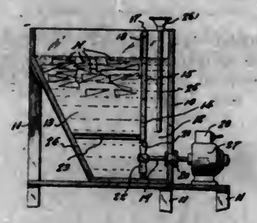
1. An oil well casing head comprising a centrally bored body having a surrounding ledge in the wall of the bore, means for securing the body at one end of the bore to an outer string casing, a collar insertible into the bore from the other end with the inner edge opposing said ledge, means for attaching an inner string casing to the collar to be supported thereby, a packing between the said inner edge of the collar and said ledge, packing surrounding the collar adjacent said inner edge, and means working between the collar and the body for compressing said last packing.

1,756,598. CONVEYER BELT. VERNON C. KING, Worcester, Mass., assignor to Wickwire Spencer Steel Company, New York, N. Y., a Corporation of Delaware. Filed June 1, 1929. Serial No. 367,681. 3 Claims. (Cl. 198—195.)



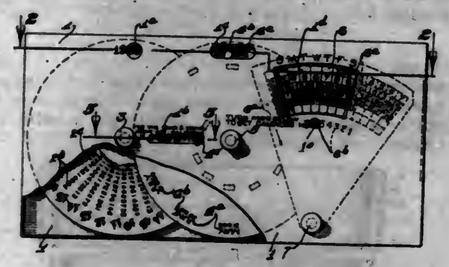
1. In an interlaced conveyor belt, a body portion, a transverse flange member secured to the work-engaging surface of said belt, said flange member having offset projections on one edge portion thereof extending below the work-engaging surface of said belt, and means to secure said flange member in position.

1,756,599. APPARATUS FOR DYEING HAT BODIES AND SIMILAR MATERIALS. KARL FRIEDRICH KEANEY, Guben, Germany. Filed Feb. 27, 1929. Serial No. 343,231. 5 Claims. (Cl. 8—19.)



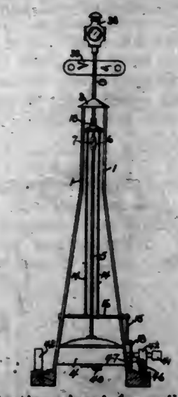
1. In an apparatus for dyeing aggregate piece material, such as a plurality of hat bodies, a tub, a vertical partition extending upwardly through said tub from its bottom to subdivide the interior thereof to provide a mixing chamber and a dyeing chamber, a perforate bottom screen in the lower end of said dyeing chamber spaced above the bottom of said tub, a perforate side screen between the upper end of said dyeing chamber and said mixing chamber, said side screen forming a part of said vertical partition extending above the normal fluid level of the dye solution with which the tub is supplied, and means below the bottom screen and between said dyeing chamber and said mixing chamber for alternately circulating the dye solution in opposite directions through the bottom and side screens and between said dyeing chamber and mixing chamber, so that the piece material is alternately massed on said bottom screen subject to the flow of the dye solution therethrough and then whirled about the interior of said dyeing chamber to break up the mass and shift about the individual pieces into new relative positions.

1,756,600. PERPETUAL CALENDAR. ROYAL B. LEE, San Diego, Calif. Filed Nov. 16, 1929. Serial No. 407,761. 6 Claims. (Cl. 40—113.)



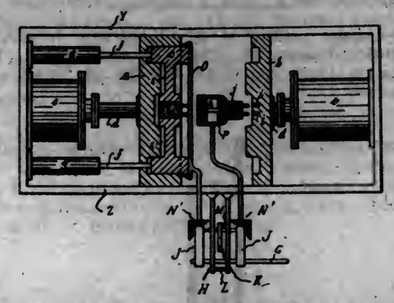
1. In a perpetual calendar, a casing, a rotatable disk mounted therein, said disk provided with characters representing the years and sets of index characters corresponding to said years, a second disk provided with characters representing months, and a slot for each month arranged to uncover a certain index character, said casing provided with openings therein adapted to expose at one time, characters representing a single year date, characters representing a single month of a year, and an index character exposed by the slot in said second disk, and a weekly calendar member arranged to be set according to the said exposed index character.

1,756,601. GAP DETECTOR FOR RAILWAY SWITCHES. ROBERT S. MCELHANEY, Barton, Ohio. Filed June 18, 1929. Serial No. 370,561. 9 Claims. (Cl. 246—476.)



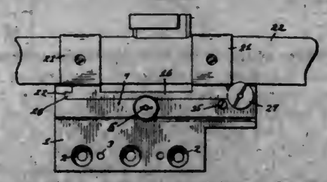
1. A gap indicating signal for railway switches or the like, comprising a vertically movable signal, rockable means for supporting said signal, and means connecting the switch and said rockable means to release the latter and thereby the signal upon accidental movement of the switch.

1,756,602. ATTACHMENT FOR CASTING MACHINES. ALBERT WOOD MORRIS, Drexel Hill, and SAMUEL PRICE WETHERILL, Jr., Haverford, Pa., assignors to Wetherill-Morris Engineering Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 22, 1929. Serial No. 365,164. 19 Claims. (Cl. 22—94.)



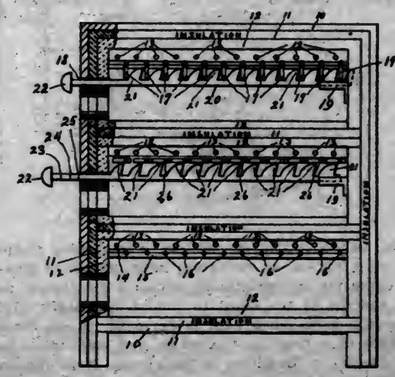
1. A casting remover comprising driving means, a casting holder adapted to enter between open mold parts and receive a casting as it is ejected from the mold, a movable frame for the holder operable to place the holder in position to take the casting and to place the holder in position to deposit the casting away from the receiving position, said driving means being mechanically connected to the holder to start and end its travel by slow and gentle movements.

1,756,603. GUN-SIGHT MOUNTING. RUDOLF NOSKE, San Francisco, Calif. Filed Sept. 19, 1927. Serial No. 220,455. 6 Claims. (Cl. 33—50.)



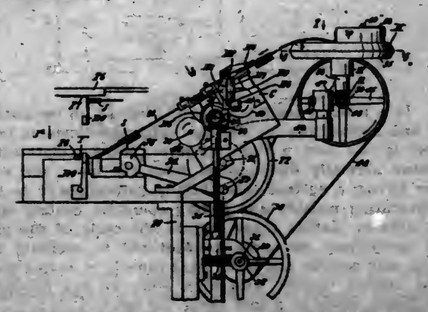
1. A gun sight mounting comprising a fixed plate arranged to be rigidly secured upon the breech of a rifle; a mounting plate arranged to be rigidly secured upon the fixed plate; a sight mounting member pivotally mounted upon the mounting plate; an adjusting screw threaded into mounting plate and engaging the sight mounting member; a retaining collar mounted upon the screw and engaging the sight mounting member; and means for rigidly securing the collar upon the screw in frictional engagement with the sight mounting member for moving said member when the screw is turned.

1,756,604. HEAT CONTROL FOR BAKE OVENS. ALBERT OBERHEIM, Charlotte, N. C.; Mabel Oberheim executrix of said Albert Oberheim, deceased. Filed Jan. 4, 1928. Serial No. 244,476. 1 Claim. (Cl. 107—55.)



In a baking oven, a baking compartment, a plurality of heating elements in the upper portion of the baking compartment, a plurality of spaced vanes pivotally mounted transversely of the baking compartment, a longitudinally slidable rod disposed beneath the vanes, a cam on the rod for each vane, said rod extending to the outside of the baking compartment, said rod being adapted to slide to cause the cams thereon to move the vanes towards a horizontal position to form a protective partition between the heating elements and the lower portion of the baking compartment.

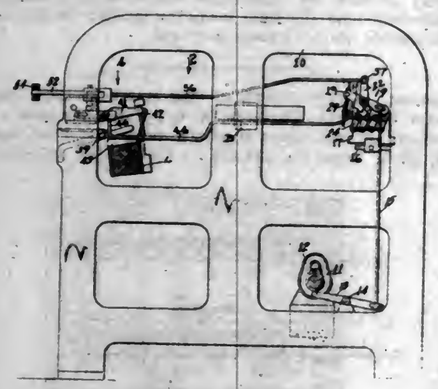
1,756,605. MECHANISM FOR COLLECTING AND FEEDING SCREW EYES. DWIGHT E. PRIEST, Worcester, Mass., assignor to Parker Wire Goods Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 26, 1928. Serial No. 295,557. 18 Claims. (Cl. 10—162.)



6. A machine for assembling and feeding screw-eyes comprising a rotatable hopper, an assembling rod projecting into said hopper and along which said screw-eyes are slidable, and a plurality of rod clamping devices effective to hold said rod in predetermined operative position, said clamping devices having projections thereon and said rod having recesses to receive said projections, whereby said rod is held from axial movement.

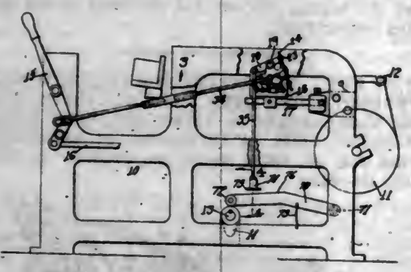
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1,756,606. COMBINED FILLING AND WARP STOP MOTION FOR LOOMS. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1927. Serial No. 209,653. 17 Claims. (Cl. 139—336.)



1. In loom stopping mechanism, a warp stop motion, a filling stop motion, an actuating lever, means to give said lever operative movements in opposite directions, means under control of the warp to render said lever effective to stop the loom when said lever rocks in one direction and there is a fault in the warp, and additional means under control of the filling to render said lever effective to stop the loom when said lever rocks in the other direction and there is a fault in the filling.

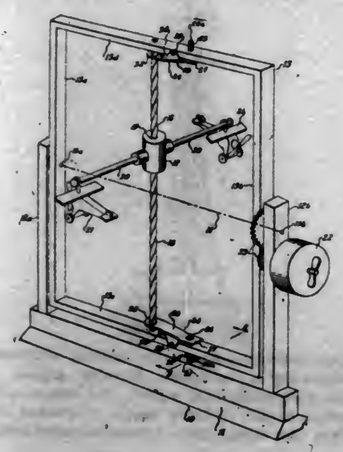
1,756,607. WARP STOP MOTION. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 18, 1927. Serial No. 226,976. 6 Claims. (Cl. 139—360.)



1. In a loom, a warp stop motion having an oscillating rod and a mounting for the rod which is adjustable relatively to the loom, a vibrating lever, and a reciprocating member normally disconnected from the lever and said lever having a surface substantially perpendicular to the reciprocating member and having operative contact with the lever at certain times only in the cycle of the pick and operatively connected to said rod to oscillate the latter, said member and lever being capable of having operative driving contact with each other at any one of a continuous series of points along the lever.

1,756,608. MACHINE FOR USE AS MECHANICAL TOYS AND OTHER PURPOSES. MAURICE J. REIDER, Canton, Ohio. Filed Jan. 11, 1930. Serial No. 420,078. 3 Claims. (Cl. 272—31.)

2. A machine including a base, supporting means extending upwardly from the base, a frame pivotally mounted on the supporting means for rotating about a laterally extending axis, a gravity actuated mechanism operatively mounted on the frame, the frame including end members on opposite sides of the axis of rotation of the frame, and the gravity actuated mechanism including a mass member



mounted in the frame for successive movement by action of gravity between the ends of the frame towards one end thereof when the other end is positioned above the axis of rotation of the frame, and means intermittently rotating the frame about its axis of rotation for successively positioning the ends of the frame above its axis of rotation.

1,756,609. CONTAINER-CHARGING ICE-CREAM SCOOP. ELLIOTT M. STORY, Worcester, Mass. Filed June 19, 1929. Serial No. 372,190. 2 Claims. (Cl. 226—19.)

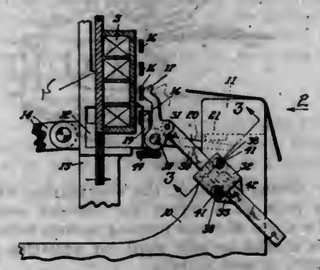


1. A scoop adapted to hold an edible container and manipulate the same to charge it, comprising a pair of jaws conforming to and adapted to wholly receive an elongated container, a hinge connection between the inner ends of the jaws whereby they are adapted to be closed upon the container and opened to release the same, the outer ends of the jaws forming a cutter adapted to penetrate a mass of ice-cream into which the jaws are forced, handles extending from the inner ends of the jaws whereby

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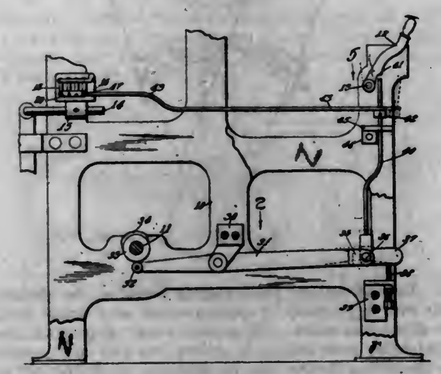
the latter may be manipulated and opened, each jaw and its handle being a single sheet metal member, a spring cooperating with the handles to close the jaws, a head adapted to support the container against endwise movement by pressure exerted thereon by the material into which the jaws are forced, and head-confining means connecting the head with said hinge conection and locating the head between the inner ends of the jaws, the head being independent of the jaws, so that the latter may be opened and closed without movement of the head.

1,756,610. PROTECTOR MECHANISM FOR LOOMS. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 6, 1928. Serial No. 267,970. 3 Claims. (Cl. 139—187.)



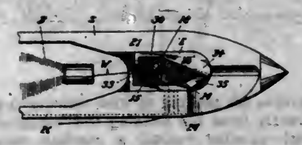
1. In a friction device for a protector mechanism of a loom having a lay which moves backwardly and forwardly and having a protector rod which is movable to stopping and non-stopping position, a guide, a bar pivotally connected to the finger at one end and the other end extending through said guide, said guide being angularly movable and having frictional elements between which the bar is slidable while the lay is moving either backwardly or forwardly.

1,756,611. WARP STOP MOTION FOR LOOMS. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1928. Serial No. 316,834. 8 Claims. (Cl. 139—360.)



1. In a warp stop motion, a non-circular detector rod to be oscillated about its axis and located at the rear of the loom, control mechanism movable from running to stopping position and located at the front of the loom, a regularly moving lever, a weighted actuator member pivoted to the lever beneath the control mechanism and normally in alignment with the latter, and a control rod operatively connected at its rear end to the detector rod and at its forward end to the actuator member, said weighted actuator member being movable by the lever toward the stopping mechanism and tending to move out of alignment with the stopping mechanism and also tending to cause oscillation of the detector rod, inability of the detector rod to rock on its axis holding the actuator member in alignment with the stopping mechanism to move the latter form running to stopping position as the lever moves upwardly.

1,756,612. SELF-THREADING SHUTTLE. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1929. Serial No. 332,658. 3 Claims. (Cl. 139—217.)



1. In a shuttle having provision for supporting a bobbin from which extends a weft end, said shuttle having a thread passage through which the weft extends, a pair of coacting tensioning elements one of which is normally stationary with respect to the shuttle, and a pivot for the other element removed from the first named element with respect to the length of the shuttle, said second named element moving about its pivot into engagement with the first named element and being acted upon to move toward the first named element when the weft from the bobbin is moving in the normal direction through the thread passage, said second named element tending to move away from the first named element when the weft is reversed as to its direction through the thread passage.

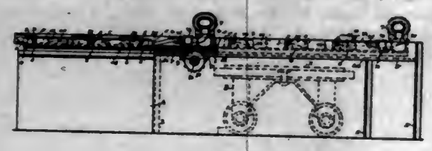
1,756,613. CAN OPENER. LOGAN R. WHITNEY, Los Angeles, Calif., assignor to Whitney-Jarvis Company, Louisville, Ky., a Corporation of Kentucky. Filed Jan. 9, 1929. Serial No. 331,266. 1 Claim. (Cl. 30—3.)



A can opener comprising a single plate of material shaped to form a handle and having a slot cut through one edge thereof to form a cutting blade extending across the end of said plate, both edges of said cutting blade being beveled to form cutting edges and curved to meet in a puncturing point, the edge of said slot opposite said blade having a part thereof adapted to form a fulcrum about which said blade may be swung to utilize the inner cutting edge thereof in the separation of the top of a can from the body thereof, and a guard extending substantially across the mouth of said slot, and having a part thereof

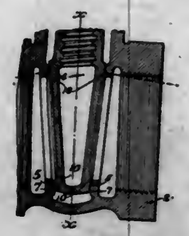
shaped to form a fulcrum about which the blade may be swung to utilize the other cutting edge of said blade in a can opening operation.

1,756,614. LIFTING AND TRANSFERRING DEVICE. JOHN A. WIENER, Oswego, N. Y., assignor to Oswego Board Corporation, Oswego, N. Y., a Corporation of New York. Filed Apr. 23, 1929. Serial No. 357,510. 10 Claims. (Cl. 214—1.)



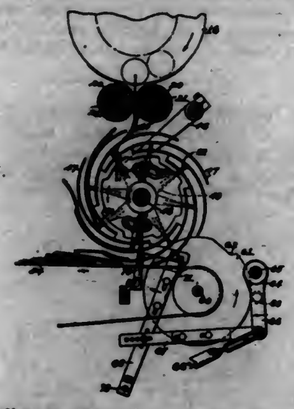
2. A machine for picking up and transferring wet sheets of fibre directly from the molding bed, comprising a frame formed with parallel tracks, a carriage adapted to be trundled over said tracks towards and from said bed, a floating open bottom vacuum box supported by said carriage adapted to be projected into the molding chamber means to stop the box when it registers with the sheets, means to connect the box and carriage whereby said carriage may continue its forward travel after such registry is effected and to cause said box to gravitate towards the sheets, means to create a vacuum in said box, said vacuum adapted to become effective when the box makes contact with the top surface of the sheets, means to reciprocate said carriage, and means to break the vacuum to enable the sheets to gravitate to another conveyor.

1,756,615. VALVE. DANIEL R. WOLFF, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Oct. 27, 1927. Serial No. 229,049. 6 Claims. (Cl. 251—167.)



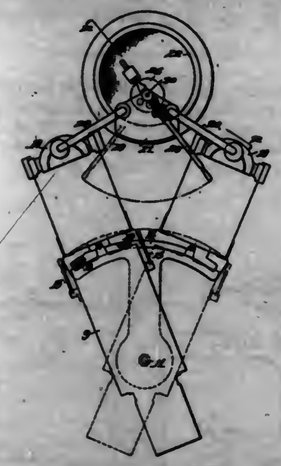
1. The combination of a valve body, passages from the exterior to the interior thereof, angularly disposed circular body seats surrounding each passage and formed integrally with the body by a yielding neck, a seating face on each seat, a gate member having angularly disposed circular seating faces thereon to engage the seating faces on the body seats, both sets of seating faces being of limited width and one set of the seating faces having a crowned contour with the apex of the crown adjacent the inner edge of the face and each arranged to form an unbroken circular line of contact with its co-operating face when they meet and means on the gate to receive other means to move the gate, the angularity of the planes of the contacting portions in the two sets of faces coinciding.

1,756,616. DELIVERY FAN. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Original application filed Aug. 8, 1922, Serial No. 580,437. Divided and this application filed Jan. 19, 1925. Serial No. 3,509. Renewed Mar. 27, 1929. 6 Claims. (Cl. 93—93.)



1. In a folding machine, the combination with a pair of folding rolls, of a rotary fan delivery comprising a shaft and a series of vanes forming pockets between them, and means carried by said shaft for adjusting the depth of a plurality of said pockets.

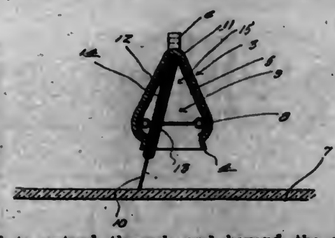
1,756,617. MULTIPLE CASTING MACHINE. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Aug. 19, 1926. Serial No. 130,208. 5 Claims. (Cl. 22—70.)



1. In a stereotype plate casting machine, the combination with a plurality of casting boxes, of a single means for filling the boxes with molten metal, a pouring spout terminating just over each casting box and means whereby the filling means can be operated to deliver to any spout and at the same time close the others.

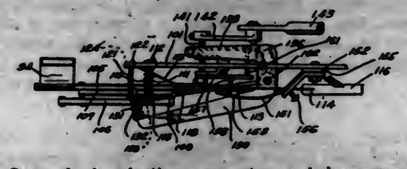
1,756,618. WINDSHIELD WIPER. THEODORE A. ZIELINSKI, Detroit, Mich. Filed July 9, 1928. Serial No. 291,245. 2 Claims. (Cl. 15—255.)

1. A windshield wiper of the class described comprising an elongated hollow casing having a longitudinally extending discharge mouth, the side walls of said casing converging rearwardly, the outer longitudinal edges of said walls being bent inwardly and having inclined stop flanges extending for the full length thereof, a wiper hingedly mounted in the apex portion of the casing, and



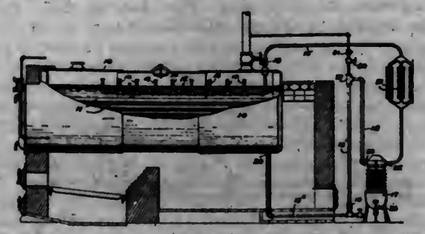
adapted to extend through and beyond the mouth for alternate engagement with the stop flanges, heating elements extending along the walls of the casing, and said wiper being movable with respect to the casing and alternately cooperating with the walls of the casing to provide heat entrapping chambers.

1,756,619. CHECK-CONTROLLED APPARATUS. HUGH B. WURZBACH and LESLIE H. WADSWORTH, Magna, Utah, assignors to Selector Corporation, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 25, 1928. Serial No. 249,438. 10 Claims. (Cl. 194—103.)



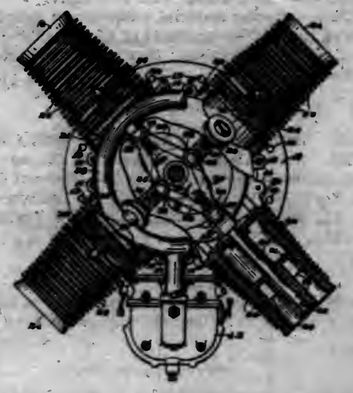
1. In a check selecting apparatus, a balance memoer, means for delivering a check to said balance member, two delivering chutes, means for moving one of said delivering chutes into alignment with said balance member upon deposition of a check of certain weight in said balance member and for moving the other of said chutes into alignment with said balance member upon deposition of a check of other than said certain weight in said balance member, and means for ejecting a check from said balance member into the chute which is thus moved into alignment therewith.

1,756 620. CONTINUOUS-SURFACE BLOW-DOWN SYSTEM FOR BOILERS. DAVID ROBERT YARNALL, Philadelphia, Pa. Filed Mar. 5, 1920. Serial No. 363,469. 8 Claims. (Cl. 122—400.)



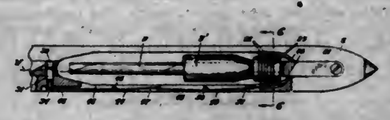
1. In a steam generating system utilizing a boiler, a skimmer, an artificial cooler, a precipitator, connections through the cooler from the skimmer to the precipitator, upwardly extending return connections from the precipitator from a point below to a point above the level of the water in the boiler, a connection from these return connections extending from the point above the water level in the boiler to the interior of the boiler and a steam jet injector in said last-named connection located at a point above the level of the water in the boiler and adapted to accelerate the speed of the water in the last connection.

1,756,621. INTERNAL-COMBUSTION ENGINE. GUSTAF ANDERSON, Lynn, Mass. Filed Mar. 15, 1928. Serial No. 261,848. 4 Claims. (Cl. 74—14.)



1. In a cam engine, a shaft, a cam secured to said shaft, a plurality of cam rollers in operative relation to said cam, pivoted connections between each roller and its adjacent roller on either side thereof, piston rods connected to said rollers, a plurality of cylinders equal in number to the number of cam rollers arranged about said shaft and radially disposed with respect thereto, pistons slidably mounted in said cylinders and connected to the piston rods, and means for imparting a power impulse stroke to each of said pistons in succession to move the same outwardly with respect to the shaft, whereby rotary motion is transmitted to the drive shaft.

1,756,622. SHUTTLE FOR WEFT-REPLENISHING LOOMS. FRANCIS E. ASHTON, Chester, Pa., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 18, 1929. Serial No. 347,785. 13 Claims. (Cl. 139—257.)



1. In a weft replenishing mechanism having a lay, a shuttle carrying a bobbin, a transferrer device to expel a depleted bobbin from the shuttle, a pair of relatively movable friction elements in the shuttle operating normally to tension the weft drawn from the bobbin, a device in the shuttle to support the bobbin and capable of movement with respect to the shuttle under influence of the transferrer device at the time of transfer, and connections interposed between the tension mechanism and the bobbin supporting device operative at the time of transfer to render the tension mechanism temporarily inoperative to tension the weft.

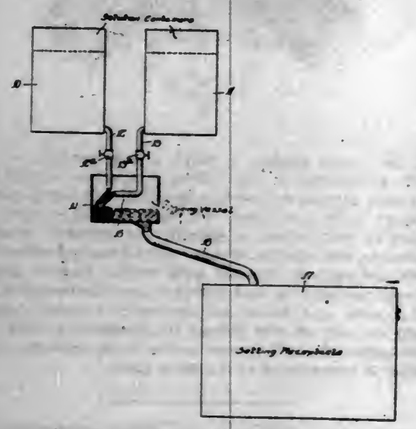
1,756,623. BASE EXCHANGE MATERIAL AND METHOD OF PREPARING SAME. ABRAHAM S. BEHRMAN, Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1924. Serial No. 708,671. 15 Claims. (Cl. 23—113.)

10. The process of preparing a metallo-silicate which comprises treating an alkali metal silicate with a quantity of acid in excess of that required to neutralise the total alkalinity, then mixing it with a solution of an alkali metal amphoterate and drying the resulting gel.

1,756,624. BASE EXCHANGE SUBSTANCE. ABRAHAM SIDNEY BEHRMAN, Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 5, 1924. Serial No. 754,202. 20 Claims. (Cl. 23—113.)

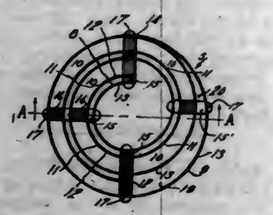
4. A base exchange material comprising a granular solid containing the reaction products of a hydroxide of one of a group of metals comprising iron and aluminum and an alkali metal silicate.

1,756,625. METHOD OF PREPARING METALLO-SILICATES. ABRAHAM SIDNEY BEHRMAN, Chicago, Ill., assignor, by mesne assignments, to The Permutit Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 11, 1925. Serial No. 22,253. 3 Claims. (Cl. 23—113.)



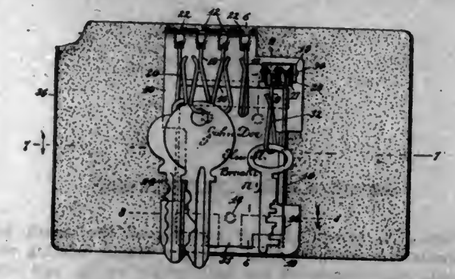
2. In the manufacture of gel zeolites by admixture of a solution containing silicate with a solution containing alumina, the process which comprises flowing small proportioned streams of the silicate solution and of the alumina containing solution into mutual contact in interfering jets, completing the mixture in transit, collecting the mixture thus produced and delivering it through a conduit to a receiver, and allowing development of gel in said receiver.

1,756,626. SILENCER. ROLAND B. BOURNE, Hartford, Conn., assignor, by mesne assignments, to The Maxim Silencer Company, Hartford, Conn., a Corporation of Connecticut. Filed July 22, 1927. Serial No. 207,787. 21 Claims. (Cl. 137—160.)



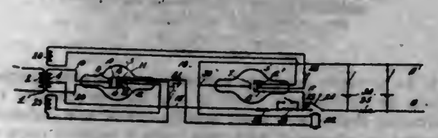
1. A device for conducting a flow of gas to or from an apparatus and limiting the transmission of wave pulsations therethrough, comprising a spirally disposed conducting channel and a series of adjacent chambers laterally disposed with respect thereto, said chambers being acoustically coupled to said channel.

1,756,627. KEY CASE. JOSEPH BREWER, New York, N. Y. Filed Feb. 4, 1927. Serial No. 165,929. 2 Claims. (Cl. 150—40.)



2. A key case carrier plate having spaced elongated openings therein, and inturned side portions spaced with respect to one face of the plate, said side portions being disposed substantially perpendicular to the edges presented by said openings.

1,756,628. CONSTANT-POTENTIAL APPARATUS. VANNEVAR BUSH, West Medford, Mass., assignor to Raytheon, Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 5, 1925. Serial No. 60,502. 8 Claims. (Cl. 171—97.)



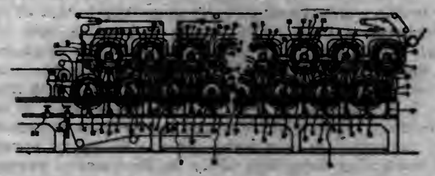
1. In combination, a source of alternating current, a load circuit connected thereto and normally inoperative, a rectifier interposed therebetween whereby unidirectional pulsatory current is derived, a device across the load circuit for removing the pulsations and means in series with the load circuit and responsive to rectified current for rendering the load circuit operative.

1,756,629. EXTENDIBLE VISE SUPPORT. ALBERT W. CAMPBELL, Bay City, Mich. Filed July 25, 1927. Serial No. 208,213. 5 Claims. (Cl. 81—41.)



1. An extendible vise-support comprising a stationary base plate, an extendible vise supporting member slidably mounted thereon, and a foldable leg pivotally secured to the end of said supporting member, and adapted to be accommodated between the base and the supporting member when the vise support is not in use.

1,756,630. DRIER APPARATUS FOR PAPER-MAKING MACHINES. RUSSELL CARPENTER, Three Rivers, Quebec, Canada. Filed Nov. 3, 1927. Serial No. 230,793. 4 Claims. (Cl. 34—48.)



1. In a paper making machine, the combination with a series of drier rolls, of a series of rotary carriers located in close proximity to said rolls and in axial alignment therewith, each of said carriers being rotatively free relatively to its respective roll and being movable axially to and from rotative engagement therewith whereby the carrier may at times be driven directly by its roll at the same peripheral speed, each of said carriers consisting of an annular sheave having a grooved periphery coinciding with the periphery of its respective roll, means for rotatively supporting each sheave independently of the axis of its respective roll, said last-mentioned means consisting of a fixed member and an annular series of anti-friction rollers mounted thereon and rotatively supporting the sheave, and means for axially moving each sheave into rotative engagement with its respective roll, substantially as described.

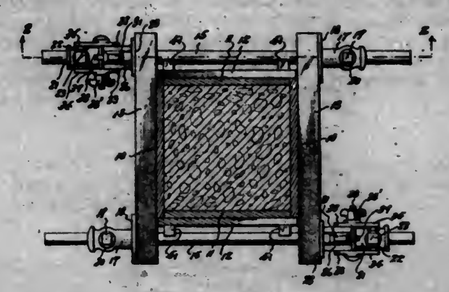
1,756,631. NUT-FASTENING INSTALLATION. FRED S. CARR, Newton, Mass., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1927. Serial No. 162,279. 4 Claims. (Cl. 85—2.4.)



1. A fastener installation comprising, in combination, a support having an aperture formed therein, a nut having a base portion seated against one face of the support and an internally threaded portion extending from said base portion through said aperture, said internally threaded portion having a wing portion also passing through the support, said wing portion cooperating with a portion of the support to prevent turning of the nut relative to the support and a lateral projection extending from one of said portions and engaging the other face of the support, said base portion and said lateral projection thereby normally holding the nut against accidental removal from support prior to threading a screw into the internally threaded portion of the nut.

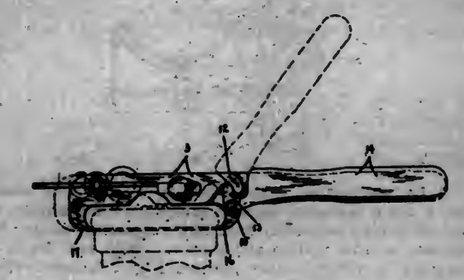
1,756,632. MEANS FOR LOCKING UP CONCRETE-POURING FORMS. SAMUEL S. COLT, Orange, N. J. Filed July 11, 1928. Serial No. 291,855. 10 Claims. (Cl. 144—291.)

1. In a form locking apparatus, the combination with a tie-rod, of an abutment block slidably adjustable thereon, means for retaining said abutment block in adjusted fixed relation to said tie-rod, a wedge member slidable relative to said abutment block, and an independent releasable



means carried by said abutment block and cooperative with said wedge member to lock the latter in operative form clamping position.

1,756,633. PORTABLE CAN OPENER. CHARLES D. CUMMINGS, Tully, N. Y., assignor of twenty-five per cent to Leo E. Fuller, Syracuse, N. Y., and forty-nine per cent to Alexander F. Fuller and Charles A. Allen, Portsmouth, N. H. Filed Apr. 9, 1927. Serial No. 182,385. 1 Claim. (Cl. 30—3.)



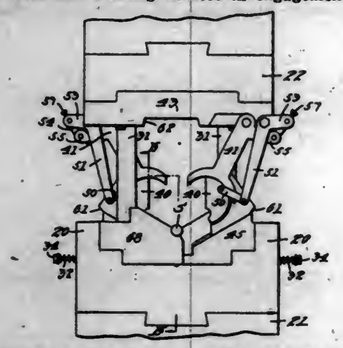
In a device of the class described, a plate having a slot in one end, a cutting wheel rotatably mounted on the plate with its cutting edge adjacent the inner end of the slot, a second plate, a shaft journaled in the second plate, a driving wheel on one end of the shaft, means for rotating the shaft, a hook formed in the other end of the second named plate, means for slidably mounting the second named plate on the first named plate with the shaft positioned in the slot in the first named plate and between the cutting wheel and the outer end of the slot, a lever pivotally mounted on the first named plate, a hook at one end of the lever articulating with the hook on the second named plate whereby the pivoting of the lever will move the driving wheel to and from the cutting wheel.

1,756,634. CRANK-SHAFT-TWISTING MACHINE. MARK H. DAMERELL, Worcester, Mass., assignor to Wyman-Gordon Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 30, 1926. Serial No. 158,009. 21 Claims. (Cl. 29—6.)

7. A crankshaft twisting machine having, in combination, a fixed die, a fixed pivot member associated therewith, a movable die, means to advance said movable die to operative position adjacent said pivot, and means to move said die relative to said fixed die and angularly about said pivot member to engage and twist the shaft.

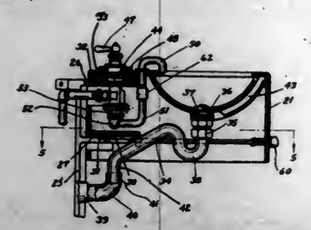
19. In a press for positioning the throws of a multi-throw crankshaft, a set of holding devices, and a set of twisting devices for the several throws of the crankshaft, a movable member, and means operated by the movement of

said member in one direction to first place the holding devices and the twisting devices in engagement with the



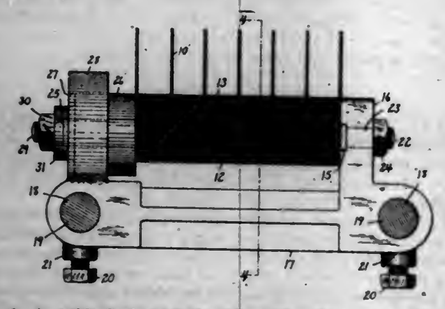
crank throws, and to then rotate the twisting devices relative to the holding devices and in opposite directions, while said holding devices grip the shaft.

1,756,635. COMBINATION LAVATORY AND CLOSET. WALTER R. DENNIS, Fergus Falls, and EDWARD J. BAEHR, Wadena, Minn. Filed Mar. 28, 1929. Serial No. 350,559. 20 Claims. (Cl. 4—3.)



1. In combination, a closet having a supporting member, a drain extending through said supporting member, a branch issuing outwardly from said supporting member in angular relation thereto and connected with said drain, a lavatory, a vertical pivot positioned in alignment with said branch and independent thereof, a lavatory swingably mounted on said pivot for movement to cover or uncover said closet, and a drain connected to said lavatory and swivelly connected to said branch.

1,756,636. ADJUSTABLE GUIDE DEVICE FOR MULTIPLE STRANDS. CHARLES A. DREISBACH, New Haven, Conn., assignor to Standard Radial Blast Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 25, 1929. Serial No. 349,702. 8 Claims. (Cl. 51—1.)



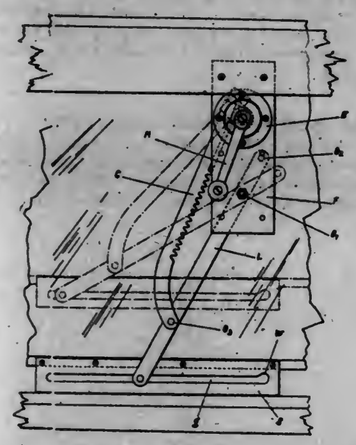
1. A guide-device of the class described comprising a mounting-bar; a plurality of spacer-plates mounted upon the said bar; and a plurality of relatively-long guide-plates interposed between the said spacer-plates and constructed so as to be radially removable from the said bar.

1,756,637. METHOD OF PREPARING BY-PRODUCT CALCIUM SULPHATE FOR PLASTER. ROBERT SHAVER EDWARDS, Brookline, Mass., assignor to Rumford Chemical Works, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 9, 1927. Serial No. 182,543. 10 Claims. (Cl. 23—122.)

8. In the process of treating by-product gypsum, having compounds which develop acidity upon dehydration of the gypsum, those steps which consist in treating with sulphuric acid in excess of the amount required to decompose the compounds present and in neutralising the free acids of the compounds and the excess sulphuric acid with lime.

9. In the process of treating by-product gypsum to improve the crystal structure of the plaster made therefrom, such by-product gypsum being deficient in crystal growth and containing impurities which in the form of gypsum are non-deleterious but which are rendered actively deleterious to the plaster by the heat of dehydration of the gypsum, those steps which consist in treating the gypsum with sulphuric acid in excess of the amount required to react with and decompose the impurities which are rendered deleterious by the heat of dehydration of the gypsum, and then neutralizing the acids of the deleterious impurities and the excess sulphuric acid with lime to convert them into stable compounds not rendered reactive by heat.

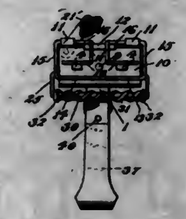
1,756,638. MECHANISM FOR RAISING AND LOWERING SLIDING WINDOWS. EDMOND ETORÉ, Courbevoie, France. Filed Oct. 8, 1927, Serial No. 224,844, and in France Dec. 2, 1926. 2 Claims. (Cl. 268—126.)



1. In a combined window regulator and locking device, a casing adapted to be secured to the window support, a shaft journaled in the casing, a handle for rotating the said shaft, a gear loosely fitted on the said shaft and provided with a sleeved extension, a combined actuating and locking member carried by the said shaft and adapted to cooperate with the said sleeve and casing for preventing rotation of the said gear, means for normally holding the locking member in locking engagement with said casing, said locking member being shiftable by the said shaft incident to rotation thereof to cause disengagement of said locking member from the casing and subsequently establishing driving relation through the locking member between the said shaft and said gear extension.

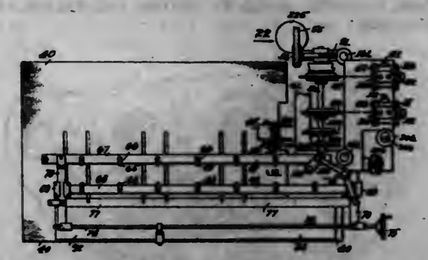
1,756,639. SHAVING IMPLEMENT. GILBERT F. GREENE, Washington, D. C. Filed Dec. 21, 1928. Serial No. 327,697. 16 Claims. (Cl. 30—12.)

1. A shaving implement comprising a blade holder adapted to support a blade with a sharpened portion of the blade projecting forwardly from the holder, abutment means to overlap the rear portion of the blade, clamping means carried by the holder and adapted to bear against the upper face of the projecting portion of the blade to bind the blade against the holder and flex the blade, a guard pivotally mounted and movable into position to bear



against the under face of the blade along its sharpened edge, and means urging the guard upwardly when bearing against the blade.

1,756,640. SCARFING MACHINE. WINFRED S. GRIFFITH, Worcester, Mass., and EDWARD H. HATHAWAY, Apponaug, R. I., assignors to Graton & Knight Company, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 12, 1928. Serial No. 305,474. 20 Claims. (Cl. 69—11.)



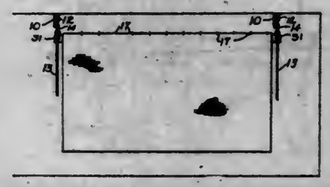
2. A scarfing machine comprising a scarfing knife, fluid-operated means to cause an initial pressure of said knife against the work, and means to vary the duration of operation of said fluid-operated means.

1,756,641. GROUND STAKE. GEORGE F. HAMILTON, RICHARD R. HOLZAPFEL, FREDERICK J. GIRTY, and CLARENCE LAWTON, Richmond, Ind. Filed Jan. 5, 1928. Serial No. 244,667. 1 Claim. (Cl. 173—31.)



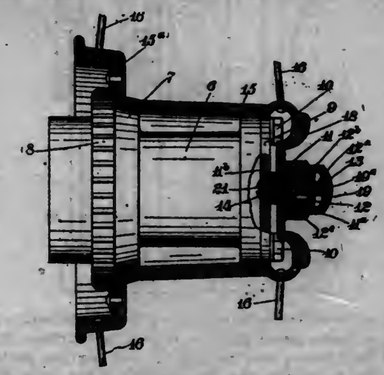
A ground stake for electric current comprising a plurality of tubular sections, a coupling for connecting each two of the sections detachably together by pressure, a downwardly tapering cone member attached to the lower end of the lower section by pressure, a pointed terminal carried by the lower end of the cone member and forming a continuation thereof in contour, an electrode extending from said terminal through said cone member, a conductor autogenously attached to said electrode and extending upward through all of said sections of pipe and couplings, and a cap attached by pressure to the upper end of the upper section of pipe and having a curved channel therein through which said conductor extends from the upper pipe outward through the side of said cap whereby the conductor will not be damaged as the cap is struck to drive the device into the ground.

1,756,642. RUG-HANGING APPARATUS. EBER B. HORNE, East Cleveland, Ohio. Filed Jan. 12, 1928. Serial No. 246,350. 4 Claims. (Cl. 211—128.)



4. In a rug hanging apparatus, the combination of a pole having a row of rug supporting pins in the upper surface thereof, a stiff tube extending lengthwise thereof substantially from end to end and snugly embedded in the material of the pole to reinforce the same, and supporting devices tightly secured to the pole adjacent each end and having portions extending beneath the reinforced pole.

1,756,643. DETACHABLE WHEEL HUB. CHARLES O. HOWARD, Columbus, Ohio, assignor of one-third to Thomas K. Wissinger and one-third to Milton A. Pixley, Columbus, Ohio. Filed Feb. 3, 1928. Serial No. 251,669. 4 Claims. (Cl. 301—9.)

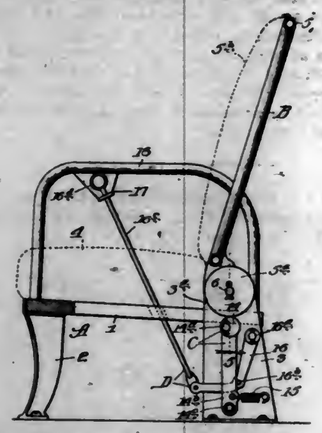


1. In the combination of a permanent hub part having a threaded stem, a removable hub part, a retainer plate in non-rotative engagement with said stem for securing the removable hub part on the permanent hub part, and a nut threaded on said stem; co-operating latching means in said threaded stem and nut for securing said retainer plate in engagement with the removable hub part.

1,756,644. ADJUSTABLE-BACK CHAIR, ETC. CHARLES R. HULTGREN, Chicago, Ill., assignor to S. Karpen & Bros., Chicago, Ill., a Corporation of West Virginia. Filed Dec. 20, 1926. Serial No. 155,921. 5 Claims. (Cl. 155—160.)

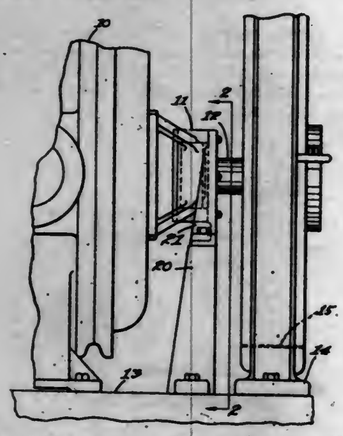
1. In combination with a frame adapted to support a seat, a swinging back having a pivot-member rigidly con-

sected therewith, an eccentric frictional gripping device coacting with said pivot-member, means yieldingly holding



said eccentric device in locking-grip engagement with said pivot-member, and means for releasing said eccentric member from gripping engagement with said pivot-member.

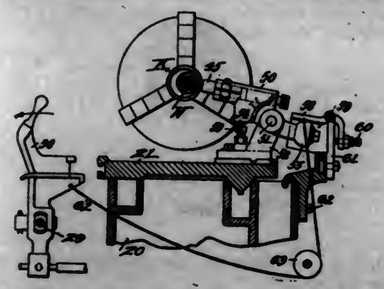
1,756,645. EXTERNAL SUPPORT FOR BEARINGS OF MOTOR-DRIVEN PUMPS. IRVING C. JENNINGS, South Norwalk, Conn. Filed May 3, 1926. Serial No. 106,425. 4 Claims. (Cl. 103—87.)



1. A motor-driven rotary pumping unit comprising a pump casing, a main pump shaft mounted in bearings at each side of said casing and having one end portion projecting outwardly to receive the unsupported rotor of a driving motor, and an external support firmly secured to the shaft bearing on the motor side of the pump casing, said pump and support being mounted upon a common base and said support having an upper portion provided with a circular flange on one face extending into and closely fitting a cylindrical recess at the outer end of the shaft bearing.

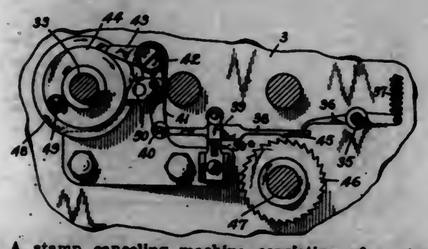
1,756,646. WHEEL-DRESSING DEVICE FOR GRINDING MACHINES. FRANKLIN JUDGE and ALDEN M. DRAKE, Greenfield, Mass., assignors to Greenfield Tap & Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1925. Serial No. 16,759. 12 Claims. (Cl. 125—11.)

12. In a grinding machine, a work holder, a wheel, a wheel dressing tool positioned, when operative, in proximity to said holder, a hand lever effective in one position to cause relative travel of said tool past said wheel to dress the wheel, and effective in another position



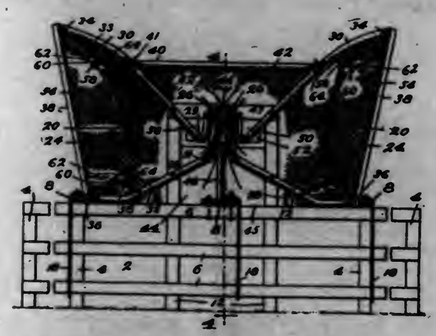
to cause relative travel of greater extent to permit replacement of the work, and to simultaneously displace said tool transversely to the wheel axis from operative position.

1,756,647. STAMP CANCELING MACHINE. OMER FRANÇOIS LEFEBVRE, Montreal, Quebec, Canada. Filed June 22, 1928. Serial No. 287,514. 11 Claims. (Cl. 101—235.)



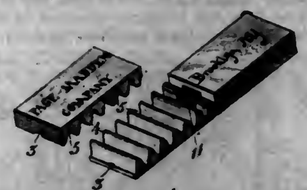
1. A stamp canceling machine consisting of a stamp roller and a pressure roller and means to automatically stop said rollers until the rear end of postal matter fed thereto passes a predetermined point.

1,756,648. FLYTRAP. EMIL V. LILLIAN, Lindsborg, Kans. Filed May 12, 1928. Serial No. 277,156. 6 Claims. (Cl. 119—156.)



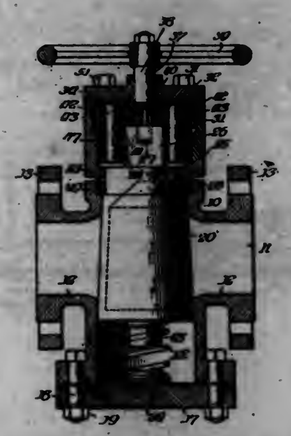
1. A structure of the character described consisting of a passageway through which animals may pass, brush means arranged within said passageway for brushing insects from the animals, an insect catching compartment disposed above said passageway, a pair of oppositely disposed chutes arranged above said passageway for collecting and directing the insects to said compartment, the exit ends of said chutes being arranged adjacent to each other and communicating with the lower portion of the compartment, and a third chute arranged above the passage at a point between said pair of chutes and having an exit at its upper portion communicating with the compartment.

1,756,649. WASHBOARD-TENSIONING DEVICE. JESSE F. MADDEN, Rockville Center, N. Y., and EDWIN E. OVERHOLT, Washington, D. C., assignors to Page Madden Company, Inc., Brooklyn, N. Y. Filed Aug. 21, 1928. Serial No. 301,092. 10 Claims. (Cl. 242—153.)



1. A device of the character described, comprising upper and lower mating pieces for pressing the thread, the upper mating piece being formed in sections, the device being provided with a cutaway portion in the path of the thread at the point where said sections meet, whereby to free a section of the thread from pressure.

1,756,650. PLUG VALVE. JESSE C. MARTIN, Jr., San Francisco, Calif. Filed June 16, 1926. Serial No. 116,262. 9 Claims. (Cl. 251—108.)



1. In an operating unit for valves and the like in combination with the valve body and valve stem projecting therefrom, a casing having detachable connection with said body and containing and forming a part of valve operating means engaging said stem, a packing for said stem, said casing engaging said packing and serving as a gland therefor.

1,756,651. STRAIN INSULATOR. SAMUEL S. MATTHEWS, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Mar. 18, 1927. Serial No. 176,352. 6 Claims. (Cl. 173—366.)



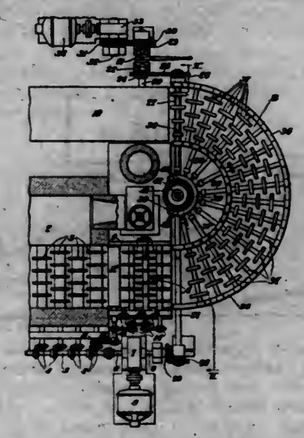
2. An insulator comprising an insulating member, and metal fittings secured thereto by transversely disposed bolts whose axes are at right angles to each other, shims interposed between the bolts and the insulating member and of such length as to extend beyond the sides of the insulating member, each shim having a surface to conform to the surface of the insulator which it engages and means at the ends of the shims to engage the bolts.

1,756,652. PRESSURE, TEMPERATURE, AND VACUUM SAFETY RELIEF VALVE. JOSEPH ADOLPHUS MAYNARD, Boston, Mass. Filed Nov. 6, 1924. Serial No. 748,081. 6 Claims. (Cl. 277—45.)



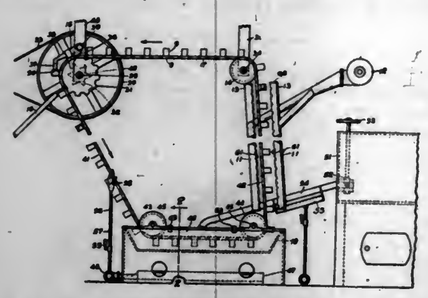
6. A relief device for hot water systems, such as a hot water boiler, comprising a housing having an inlet and an outlet connected by a passage, a valve seat, a removable tube extending through said passage and having an exteriorly formed valve engaging the seat to close said passage, said tube and valve being supported on said seat solely by their own weight, said tube also having a passage therethrough, and a fusible plug normally closing said last passage.

1,756,653. FURNACE-CHARGING CONVEYER. ARTHUR R. MCARTHUR, Gary, Ind., assignor to American Sheet and Tin Plate Company, a Corporation of New Jersey. Filed Oct. 19, 1928. Serial No. 313,545. 2 Claims. (Cl. 198—127.)



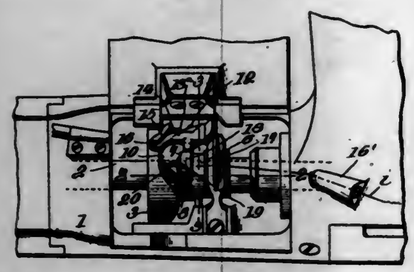
1. A semi-circular connecting conveyer unit serving to connect two parallel conveyer units, said semi-circular unit comprising a frame, a plurality of tapered conveying rollers journaled transversely of said frame with their smallest diameter ends at the inner side of said frame, alternate ones of said rollers being idler rollers and the other of said rollers being driven rollers, said driven rollers having the inner ends of their shafts extended materially beyond said frame, bevel pinions on said extended ends of said shafts, a ring gear meshed with all of said pinions, and means for rotating said ring gear.

1,756,654. CASTING MACHINE. HARRY C. MERRILL, Cincinnati, Ohio, assignor to The Eagle-Picher Lead Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 8, 1927. Serial No. 182,160. 14 Claims. (Cl. 22—76.)



1. In a device for casting metallic bars, the combination of a container for holding a quantity of molten metal, a support means disposed above the container, a drive member and a conveyor roller carried by the support means, a second conveyor roller adapted to extend into the container of molten metal, an endless conveyor comprising a plurality of hollow molds and disposed about the drive member and the conveyor rollers, the drive member imparting continuous motion to the conveyor, and the second roller serving to immerse each mold in the container of molten metal for filling the mold with the molten metal, means for subsequently directing a cooling medium upon the filled molds whereby to solidify the metal contained therein, and means comprising a hammer member mounted adjacent the drive member, for striking each mold as it approaches the hammer thereby loosening the metallic bar from the interior of the mold and assuring its discharge therefrom.

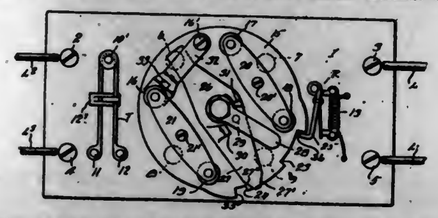
1,756,655. THREAD-CONTROLLING MECHANISM FOR SEWING MACHINES. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 29, 1928. Serial No. 302,809. 6 Claims. (Cl. 112—248.)



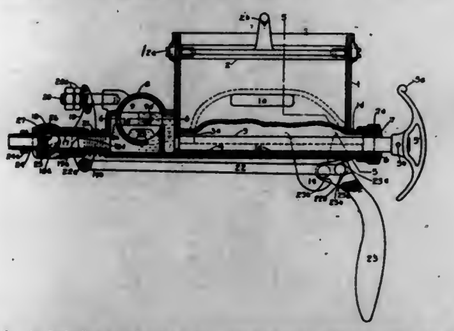
1. A thread controller for sewing machines comprising a rotating shaft, a thread controlling element mounted on said shaft and having a laterally projecting flange, thread guides located within and without the periphery of the flange, an arm for each thread guide, said arms extending laterally beyond the flange and connected at their outer ends, each arm having a curved face leading through a slot to a guide eye forming the thread guide, and means for supporting said arms.

1,756,656. CIRCUIT BREAKER. EDGAR D. MOORE, Cleveland, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Apr. 17, 1926. Serial No. 102,658. 7 Claims. (Cl. 175—294.)

1. A circuit breaker comprising in combination a base member upon which are mounted and held in fixed position a plurality of pairs of contact members, conductors connected to said members, a plurality of bridging members to engage and connect the contact members of a given pair, means to manually actuate the bridging members to either a closed or an open position, electrically operated means connected in series with one of said pairs of contacts to hold the bridging members in closed position relative to the contact members under normal conditions and to release said hold when current in the conductors exceeds a predetermined value, means to maintain one of the bridging members out of engagement with its contact member until the manually operated means is reversed and means having a time lag operating to electrically connect one contact of each pair of contacts to effect the release of the holding means at a current value less than the said predetermined current value.

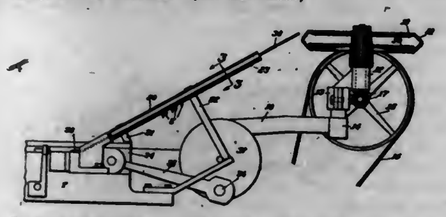


1,756,657. GREASE FEEDER. WILLIAM L. MORRIS, Chicago, Ill., assignor to Bendix Aviation Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Aug. 7, 1916, Serial No. 113,653. Divided and this application filed May 5, 1928. Serial No. 275,540. 18 Claims. (Cl. 221—47.4.)



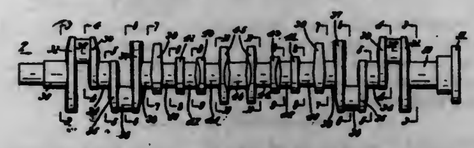
10. A lubricant feeder for detachable connection to a ported receiving device comprising a spherical joint face to permit relative angular movement, and means for holding the joint face in contact with a receiving device to permit relative movement but insuring a tight joint bearing on the spherical surface.

1,756,658. MECHANISM FOR FEEDING SCREW EYES. ARAKEL M. OHAN, Worcester, Mass., assignor to Parker Wire Goods Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 26, 1928. Serial No. 295,561. 6 Claims. (Cl. 10—165.)



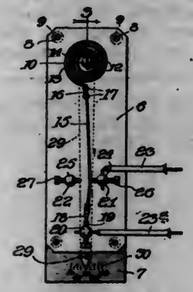
3. A mechanism for feeding screw-eyes comprising a rotating hopper, an assembling rod having a substantially circular portion with a free end and projecting therein and loosely held thereby, and an inclined tubular guide member for said rod mounted in fixed position and having a longitudinal opening in its lower side to permit passage of the points of the screw-eyes.

1,756,659. COUNTERBALANCED CRANK SHAFT. JOHN A. OLDSON, Worcester, Mass., assignor to Wyman-Gordon Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 19, 1928. Serial No. 293,916. 2 Claims. (Cl. 74—38.)



1. An eight-throw crankshaft having eight crank pins positioned in two planes perpendicular to each other and having a single integral counterweight associated with each crank pin but positioned on the opposite side of the crankshaft axis therefrom, the two end counterweights and the two middle counterweights being centered substantially on a prolongation of the line joining the axis of the associated crank pin with the axis of the crankshaft, and the four counterweights associated with the four remaining crank pins being offset substantially 45° from the line joining the axis of the associated crank pin with the axis of the crankshaft and being substantially in axial alignment with each other, each end and middle counterweight being of a mass and radius effective to substantially counterbalance its associated crank pin and parts associated therewith, and each intermediate pair of counterweights acting together to counterbalance the resultant of the two intermediate crank pins and parts associated therewith.

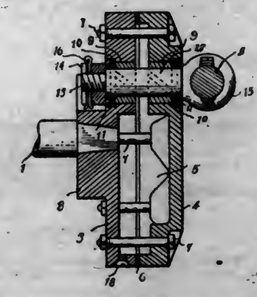
1,756,660. THERMOSTATIC DEVICE. STANLEY PERRY, Chicago, Ill., assignor to Automatic Burner Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 25, 1928. Serial No. 280,497. 14 Claims. (Cl. 200—139.)



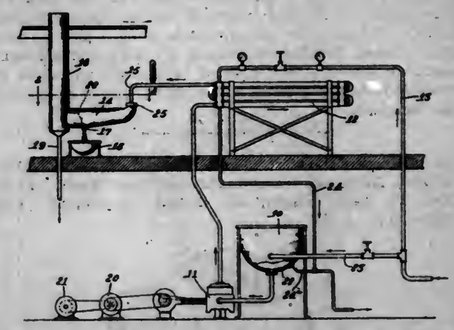
1. In a thermostatic switch device, the combination of a thermostatic coil anchored at one end, an abutment, and a flexible member operatively engaged at one end with the other, movable, end of said coil and having endwise abutting engagement at its other end with said abutment, said flexible member between its ends being in sprung condition.

1,756,661. FLYWHEEL AND SELF-OILING WRIST PIN. ARCHIE R. PRESCH, San Marcos, Tex., assignor of one-half to Walter H. Bauerschlag, San Marcos, Tex. Filed Aug. 16, 1928. Serial No. 300,013. 2 Claims. (Cl. 74—38.)

1. A fly wheel comprising separable parts having a chamber formed therebetween to receive lubricant, openings formed in the parts in coincident relation, bushings in said openings, packing and washers fitted in the outer ends of the openings, and a wrist pin loosely mounted in the bushings and passing through the packing and washers.

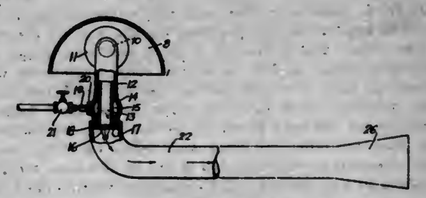


1,756,662. METHOD OF AND APPARATUS FOR COOKING CANDY. WILLIAM P. REED, Chicago, Ill. Filed Dec. 5, 1929. Serial No. 411,869. 4 Claims. (Cl. 107—4.)



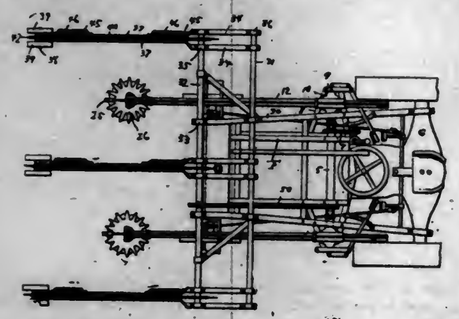
3. Apparatus for cooking candy including; a heated cooking coil; a receptacle for the mixed ingredients; means for forcing the mixed ingredients from said receptacle through said coil to cook the same, and a separator to receive the cooked candy issuing from the coil, said separator permitting escape of the steam generated in the candy while in the cooking coil.

1,756,663. SMOKE CONSUMER. JOHN SABOL, Brooklyn, N. Y. Filed Aug. 31, 1928. Serial No. 303,253. 1 Claim. (Cl. 110—49.)



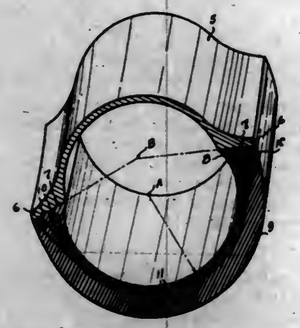
In a smoke consuming furnace having a smoke collecting hood positioned in a chimney, a pipe flared at one end thereof extending into the hood, a sleeve open at both ends thereof in the said pipe, a chambered coupling screw threadedly connected to the sleeve, a tapering end on the sleeve, a correspondingly tapered end in the coupling surrounding the tapered end of the sleeve, arranged to form between them a restricted passageway, a steam line connected to the coupling and an outlet pipe secured to the taper bearing end of the coupling provided with a flared end extending into a combustion chamber for the purpose specified.

1,756,664. CANE CUTTER. MASAICHI SASAKI, Lihue, Territory of Hawaii. Filed Apr. 17, 1928. Serial No. 270,782. 9 Claims. (Cl. 56—17.)



1. A crawling cane attachment of the class described including, in combination, a frame structure for attachment to a tractor, a transverse bar, means for attaching the bar to the frame structure, a transverse shaft, means for journalling the transverse shaft to the frame structure in front of the bar, a plurality of pairs of bars rockable on the shaft and having elongated loop members receiving the transverse bar, the forward ends of each pair of bars having spaced parallel extensions, a chain and sprocket mechanism between each pair of extensions, sprockets of the mechanism being fixed to the shaft, knives projecting from the chain.

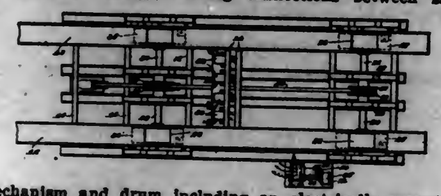
1,756,665. PNEUMATIC TIRE AND RIM CONSTRUCTION. ALVIN H. SHOEMAKER, Seattle, Wash. Filed Nov. 19, 1925. Serial No. 69,995. 3 Claims. (Cl. 152—20.)



1. In a pneumatic tire and rim construction, a rim, inclined bead receiving portions on the rim at the sides of the same, and a tire of a cross sectional shape substantially equal to but in excess of a semi-circle when seated on said rim, and having spaced apart non-elastic bead portions, each provided with an inclined base for reception on the bead receiving portions, the inclination of the bead receiving portions and beads effecting an air tight connection when the beads are on the bead receiving portions in the presence of air pressure within the tire.

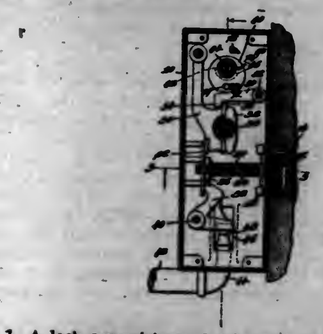
1,756,666. BRAKE-TESTING APPARATUS. CHARLES F. SMITH, Quincy, Mass., assignor, by direct and mesne assignments, to Brake Synchrometer Co., Boston, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1927. Serial No. 174,259. 1 Claim. (Cl. 234—1.5.)

In an apparatus for testing the brakes of a vehicle, the combination of a tape, a rotatable drum engaging and arranged to move the tape uniformly over predetermined distances in a given interval of time, mechanism for moving said drum, an electric circuit operating means for making an impression on said tape, means for opening and closing said electrical circuit at intervals corresponding to fixed distances of travel of the vehicle wheel, a source of electrical energy, driving connections between said



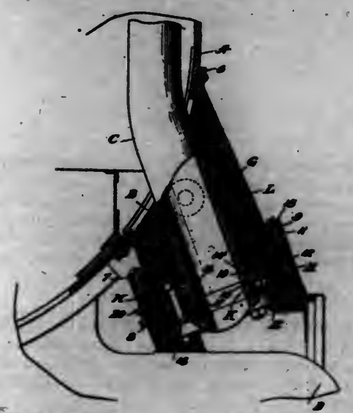
mechanism and drum including an electrically operated clutch, and means actuated by the operating mechanism for the vehicle wheel brake for connecting said source simultaneously with said circuit and said electrically operated clutch.

1,756,667. PANIC-EXIT LOCK. JOHN OTTO SOEMER, Newark, N. J. Filed Jan. 27, 1927. Serial No. 163,971. 3 Claims. (Cl. 292—21.)



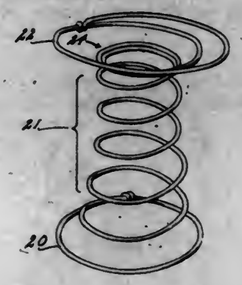
1. A lock comprising a latch, separate and independent mechanisms for retracting the latch from within and without a door, a lock mounted upon the outside of the door, connections between the lock and the latch-retracting mechanism from without the door to render the outer retracting mechanism inoperative, comprising an operating spindle extending through the door from the lock, a rotary locking eccentric, and connections between the spindle and eccentric for imparting one-half a revolution to the eccentric upon a complete revolution of the spindle.

1,756,668. STEAM-PIPE CONNECTER. GEORGE D. SPRANKLE, Tipton, Pa. Filed Mar. 30, 1926. Serial No. 98,594. 5 Claims. (Cl. 285—30.)



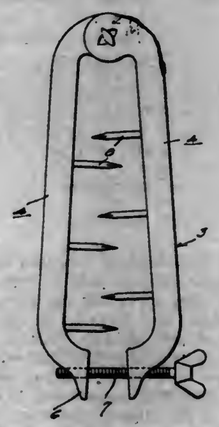
1. A device of the character described, including in combination, a locomotive smoke box shell having an opening, a steam pipe passing freely through said opening and connected to the steam chest outside of said smoke box, a flanged sleeve spaced from and surrounding said pipe and sealed to said shell around said opening, a single flange on said steam pipe at its lower end and a dished unsplit flexible diaphragm secured to the flanges of said pipe and said sleeve.

1,756,669. COILED SPRING. MAURICE STURNITZ, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 22, 1928. Serial No. 287,601. 2 Claims. (Cl. 5—256.)



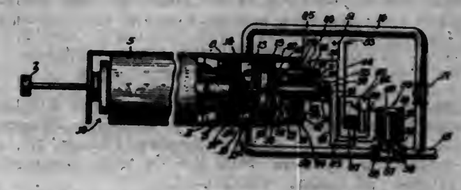
1. A helical spring comprising a body portion, a top end coil of greater diameter than the body portion, and a spacing ring of less diameter than either the top end coil or the body portion, said top end coil and spacing ring lying in parallel planes at right angles to the longitudinal axis of the spring, said spacing ring directly connected to said top end coil and said body portion by arcs of helical spirals in a manner to cause said top end coil and said spacing ring to compress and lie in the same plane upon application of light loads along the longitudinal axis of the spring without substantially compressing the body portion of the spring.

1,756,670. VULVA CLAMP. LESTER A. TREAT, Blandford, Mass. Filed Aug. 6, 1928. Serial No. 297,679. 3 Claims. (Cl. 128—346.)



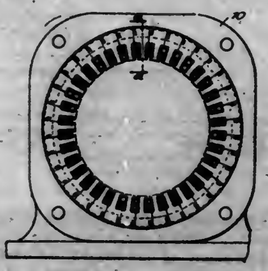
1. A vulva clamp comprising a pair of complemental members pivotally connected at one end, penetrating needles carried by the respective members and means for securing the member in adjusted position.

1,756,671. SPEED-RESPONSIVE DEVICE. CARROLL R. ALDEN, Detroit, Mich., assignor to Ex-Cell-O Aircraft and Tool Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 30, 1926. Serial No. 84,814. 4 Claims. (Cl. 200—80.)



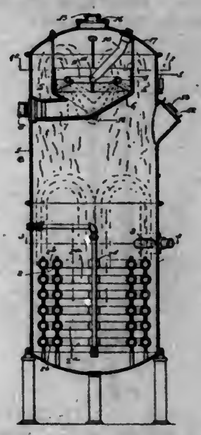
1. In a governor device of the class described having governing mechanism responsive to the rotation of a spindle, a housing comprising a sleeve adapted to be mounted at one end in a machine frame concentric with the spindle, a closure carried by the sleeve at the other end, said closure being entered into the sleeve from the first end and serving to mount the governing mechanism.

1,756,672. DYNAMO-ELECTRIC MACHINE. JOHN M. BARR, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 12, 1922. Serial No. 594,151. 23 Claims. (Cl. 171—252.)



1. A magnetic core of the partially closed slot type having the teeth thereof pivotally supported so adjacent teeth can be swung apart to allow formed coils to be inserted in the slots.

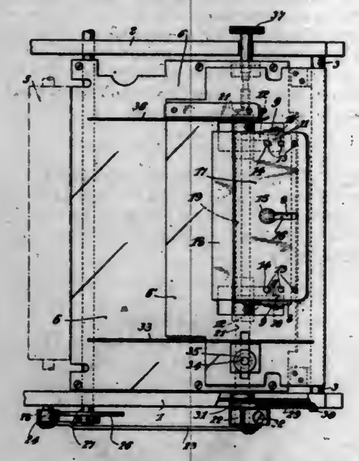
1,756,673. VACUUM PAN. ARNOLD W. BAUMANN, Chicago, Ill. Filed Jan. 25 1926. Serial No. 83,493. 2 Claims. (Cl. 261—115.)



1. In evaporating apparatus including an upright tank, a condenser unit in the upper portion centered in the tank

to provide an annular passage leading to the space above said unit; the condenser including an upwardly open vessel with an annular spray pipe therein disposed horizontally below the upper edge of the vessel and perforated to discharge a cooling spray distributed over the entire horizontal cross-sectional area of said vessel, the vessel having an outlet disposed below said spray adapted for connection to a source of suction.

1,756,674. FEED MECHANISM FOR ROTARY DUPLICATING MACHINES. ERNEST J. BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1926. Serial No. 151,300. 10 Claims. (Cl. 271—8.)



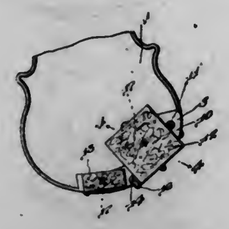
1. The combination with a printing couple comprising a rotary printing cylinder and a coacting impression roller, of means independent of but correlated with the printing cylinder for advancing a card toward and a substantial distance between the printing couple, said means including a card carrier reciprocable on one side of said printing couple only and along a path substantially at right angles to the longitudinal axis of said printing cylinder.

1,756,675. CLUSTER STEM. GREGORY BROWN, Bridgeport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed June 27, 1928. Serial No. 288,713. 4 Claims. (Cl. 240—85.)



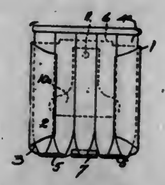
1. A cluster stem comprising a drawn tubular shell having a portion of its side wall near the lower end thereof spun to present an inwardly directed shoulder, a conductor receiving element comprising a transverse ring-shaped base portion set in the mouth of said shell against said shoulder and having an integral depending longitudinal loop or eye, the wall of said shell at the rim or mouth portion thereof and below said shoulder being bent inwardly to hold said ring-shaped part against said shoulder, and integral means on the mouth portion of said shell and on said conductor receiving element respectively in locking engagement with each other to prevent said conductor receiving element from turning in said shell.

1,756,676. SHOULDER PAD. OLIVER S. COLBENTSON, Chicago, Ill. Filed Nov. 8, 1924, Serial No. 748,706. Renewed Aug. 20, 1928. 14 Claims. (Cl. 84—280.)



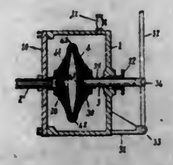
1. A body rest for a violin or a similar stringed musical instrument, comprising a relatively rigid plate conforming on one edge to the outer contour of the end of the violin which normally rests against the body of the player, means for clamping said plate upon the violin at its edge, said plate having an offset bend therein by which the main body of the plate is spaced from the body of the violin, a curved extension on the plate extending around the said end of the violin and arranged in relatively close relation to the adjacent surface thereof, the free end portion of the extension being separate therefrom, said free end portion being adjustable in its plane, and clamping means for securing it to the extension in adjusted positions.

1,756,677. MAGAZINE AND CLIP HOLDER. CHARLES J. COOK, Detroit, Mich. Filed May 12, 1928. Serial No. 277,854. 2 Claims. (Cl. 224—15.)



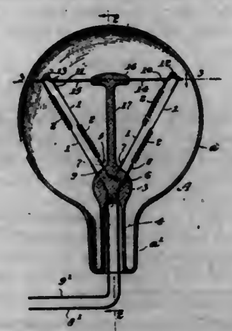
1. A holder of the character described having forwardly and inwardly flexed sides adapted to form guides for the end shells in a clip, forwardly extending stops on the lower end of holder, said stops being adapted to support the lower ends of said clipped shells, a spring one extremity of which is secured to the inner side of said holder towards its upper end having lateral extensions at its opposite end so that said opposite end is adapted to bear against several of the clipped shells and hold them frictionally against said guides, and an extension integral with said holder at its upper end which is flexed rearwardly and downwardly adjacent to the rear of said holder so as to form a loop for a belt therebetween, the end of said extension being bent forwardly around the lower end of said holder.

1,756,678. SUCTION PUMP. WILLIAM GORDON CUMMING, Montreal, Quebec, Canada, assignor to Cumming Pump Corporation Limited, Montreal, Canada, a Corporation of Canada. Filed Mar. 10, 1928. Serial No. 260,618. 15 Claims. (Cl. 230—160.)



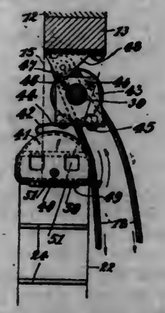
1. In a disc pump, a container, a pair of separable discs mounted therein, one of which has a valved inlet, and means to move one disc to and from the other disc.

1,756,679. INCANDESCENT ELECTRIC LAMP. WILLIAM L. CUMMINGS, Berwyn, Ill., assignor to The Electron Relay Corporation, Chicago, Ill., a Corporation of Illinois. Filed Dec. 20, 1928. Serial No. 327,325. 6 Claims. (Cl. 176—16.)



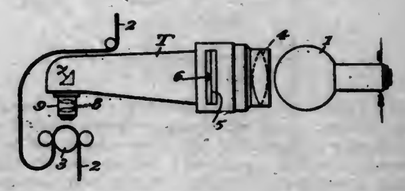
1. An incandescent electric lamp for the purpose specified, comprising a lighting element consisting of a filament and a field coil electrically connected in series, means for mounting said filament and field coil in substantially parallel relation with the filament in the magnetic field surrounding said field coil, said filament and field coil having high and low resistances to electric currents, respectively, and a coating applied to said filament having the property that it will emit white light of high actinic value when heated to incandescence.

1,756,680. VENETIAN BLIND. ARTHUR H. DODGE, New York, N. Y., assignor to J. G. Wilson Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 4, 1926. Serial No. 133,535. 6 Claims. (Cl. 156—17.)



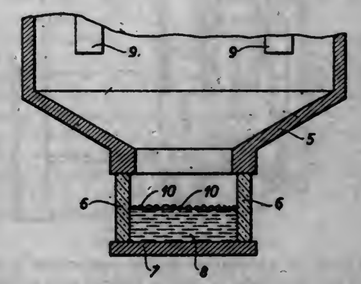
5. In a Venetian blind having a pivotally mounted tilting bar and a plurality of slats carried by the tilting bar, a brake device associated with the tilting bar and having a part connected thereto and provided with a face which is eccentric to the pivotal points of the tilting bar, whereby the tilting bar is held more securely in place in its substantially horisontal position than it is in other positions thereof.

1,756,681. PROCESS AND APPARATUS FOR PHOTOGRAPHIC SOUND RECORDING AND REPRODUCING. JOSEF ENGL, Berlin-Grunewald, HANS VOGT, Berlin-Wilmersdorf, and JOSEPH MASSOLLE, Berlin-Grunewald, Germany, assignors, by mesne assignments, to William Fox, Woodsburgh, N. Y. Filed Apr. 26, 1927, Serial No. 186,658, and in Japan Aug. 11, 1925. 2 Claims. (Cl. 179—100.3.)



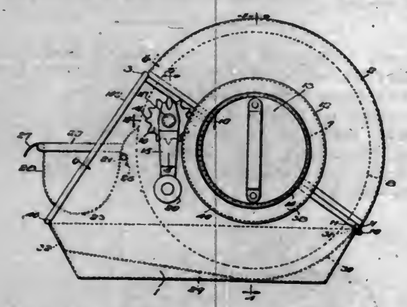
1. In apparatus for photographically recording sound on a moving film, the combination of a light source, the intensity of illumination of which is varied in correspondence with sounds to be recorded, optical means for producing a relatively wide band of light of high intensity from said source, a reducing microscope, an optical prism in the path of said band and spaced a substantial distance from said light band producing means for deflecting the light band through a substantial angle and through said microscope, means for continuously progressing a film past said prism and microscope and for maintaining a loop in the film in advance of the microscope, said loop embracing the zone of said prism, and means for supporting the moving film opposite the object glass of the microscope at a uniform predetermined distance therefrom whereby a reduced image of said band is projected on the film in the form of a fine line transverse to the direction of movement of the film.

1,756,682. METALLIC-VAPOR-RECTIFIER CATHODE. ARTHUR GAUDENZI and ERNST KOBEL, Baden, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed Jan. 12, 1929, Serial No. 332,220, and in Germany Jan. 14, 1928. 2 Claims. (Cl. 250—27.5.)



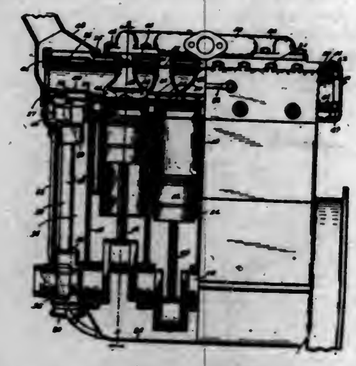
1. In a metallic vapor electric current rectifier, the combination of anodes, a fluid metallic cathode, a container for said anodes and said cathode, and a layer of metallic chips floating on said cathode.

1,756,683. ICE-CREAM FREEZER. BERT DELL GILSON, Chicago, Ill., assignor of one-half to Samuel J. Rosenthal, Chicago, Ill. Filed May 12, 1928. Serial No. 277,295. 6 Claims. (Cl. 257—98.)



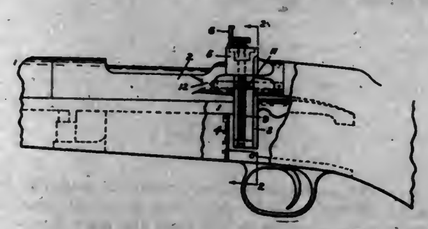
1. In a device of the kind described a lower casing having an opening at one end, an upper casing disposed above and hingedly connected to said lower casing and forming therewith a hollow enclosure, a hollow cylinder adapted to hold a refrigerant disposed within said casings and journaled in bearings formed in abutting edges of said casings, a catch formed by overlapping edges of said casings to hold said casings and said cylinder in operative position, a tubular projection on a journaled portion of said cylinder, a removable closure member for said projection, a ring gear attached to said projection, a second gear rotatably mounted on one of said casings, a handle on said second gear, a collecting pan pivotally mounted in said opening of said lower casing, said pan having an extension for contacting said cylinder to scrape particles therefrom, the botttom of said pan curved transversely and longitudinally, and a pan adapted to be removably positioned in the bottom of said lower casing, said pan having an arcuate portion for passing about said cylinder, and means co-operating with said pan to hold said pan in position.

1,756,684. SLEEVE-VALVE ENGINE. JULES HALTENBERGER, Indianapolis, Ind., assignor to Jules Haltenberger, Incorporated, Indianapolis, Ind., a Corporation of Indiana. Filed May 12, 1920. Serial No. 108,633. 51 Claims. (Cl. 123—81.)



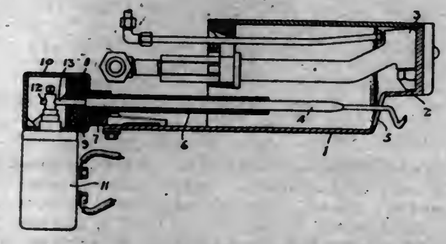
1. An internal combustion engine, comprising a cylinder having a cylinder head, a piston reciprocable in said cylinder, a core having a passage, a sleeve-valve mounted in the cylinder head and around said core and controlling the connection between said passage and a port of said cylinder, and means for driving said sleeve-valve with a combined axial reciprocation and circumferential oscillation so that any point thereon travels in a closed curved path.

1,756,685. REAR SIGHT. JAMES L. HATCHER, Brooks Field, Tex. Filed Jan. 2, 1925. Serial No. 195. 2 Claims. (Cl. 33—56.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



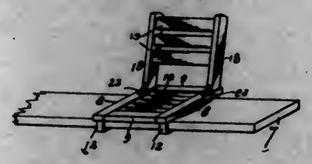
1. The combination with a rifle having a receiver provided with a groove formed in one side thereof and laterally extending projections on each side of the groove formed with aligned recesses, of a pin in the recesses formed with a threaded transverse groove, a sight support mounted to slide in the receiver groove, a rotatable element carried by the support and threadedly engaging the groove of the pin to lock the pin in place and, when rotated, cooperating with the pin to bodily move the support in elevation.

1,756,686. ELECTRIC IGNITION FOR OIL BURNERS. ARTHUR P. HOLDEN and PHILIP MORGAN, Toronto, Ontario, Canada. Filed Mar. 19, 1926. Serial No. 96,074. 4 Claims. (Cl. 175—115.)



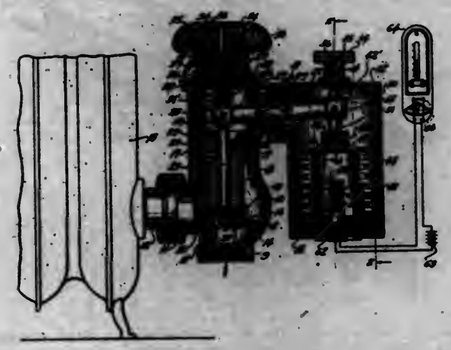
1. In an oil burner, the combination with a burner nozzle, of an electric current transformer, a pair of parallelly arranged sparking terminals having one end directly secured to the terminals of the transformer and extending into the path of discharge from said nozzle, and insulating means secured to the transformer and surrounding the sparking terminals.

1,756,687. REMOVABLE FOLDING SEAT. JOHN F. HOLLIDAY, Washington, Ind., assignor to Hincher Manufacturing Company, Washington, Ind., a Corporation of Indiana. Filed Apr. 30, 1929. Serial No. 359,283. 6 Claims. (Cl. 155—133.)



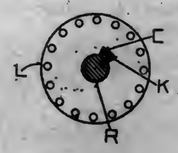
1. The combination with a chair-seat and a chair-back hinged thereto, of securing means comprising resilient metal straps secured to the seat having front ends bent to form hooks and other portions bowed downwardly to cushion the seat and increase the holding tension on the hooks.

1,756,688. AUTOMATIC FLUID-TEMPERATURE-CONTROL VALVE. FRANK L. HUTCHINSON, Wauwatosa, Wis. Filed Sept. 19, 1927. Serial No. 220,591. 5 Claims. (Cl. 236—42.)



1. A valve for fluid radiators, comprising a main casing having a fluid opening, a valve member controlling said opening, a valve rod extending through the main casing having an enlarged ring-shaped opening in one portion thereof, a turning member having an inverted cup-shaped lower end portion engaging the upper end of the valve rod, an auxiliary casing connected with the main casing, a thermostatically expansible member within the auxiliary casing having an extension with an enlarged ring-shaped opening, a lever having an intermediate fulcrum and having one end pivoted in each of the aforementioned ring-shaped openings, and adjustable yielding means in connection with the thermostatically expansible member.

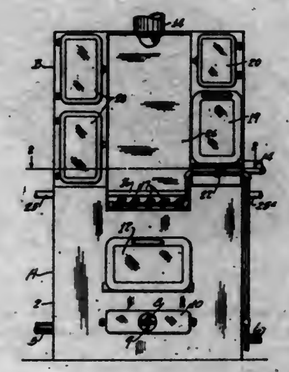
1,756,689. SYNCHRONOUS-MOTOR COUPLING. CHARLES FRANCIS JENKINS, Washington, D. C., assignor to Jenkins Laboratories, Washington, D. C., a Corporation of the District of Columbia. Filed Oct. 30, 1925. Serial No. 65,866. 1 Claim. (Cl. 172—120.)



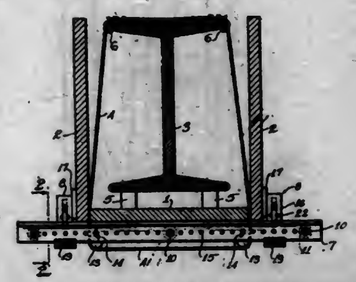
A synchronous motor structure comprising a rotor, a shaft on which said rotor is supported, and means for positively limiting the rotary movement of the rotor with respect to said shaft including a keyway carried by the rotor, a cooperating key carried by the shaft, and yieldable means between said key and said keyway.

1,756,690. COMBINED COOKING AND HEATING APPARATUS. WILLARD M. JOHNSON, Kansas City, Mo., assignor of twelve and one-fourth per cent to William A. Oberkrom, twelve and one-fourth per cent to Peter S. Jamerson, twelve and one-fourth per cent to Paul C. Jamerson, and twelve and one-fourth per cent to Jewell H. Hall, Kansas City, Mo. Filed July 12, 1928. Serial No. 292,185. 3 Claims. (Cl. 126—5.)

1. A combined cooking stove and heating apparatus, comprising a boiler composed of a number of vertically-disposed sections that are provided with water circulating passageways and gas circulating passageways, a baking oven imbedded in said boiler and having some of its walls spaced away from the sections of the boiler so as to form a gas circulating flue, a gas burner under said oven that supplies heat to the oven and also to the sections of the boiler, a water supply manifold connected to the upper ends of the sections of the boiler, a water return pipe leading to the lower portion of the boiler, gas burners arranged in a space in the upper portion of the boiler so as to form the top burners of a gas cooking stove, a summer baking oven arranged over the boiler, and a separate gas burner for heating said summer oven.



1,756,691. FORM CLAMP. HENRY H. LAMPERT, Chicago, Ill. Filed June 8, 1928. Serial No. 283,833. 1 Claim. (Cl. 25—131.5.)

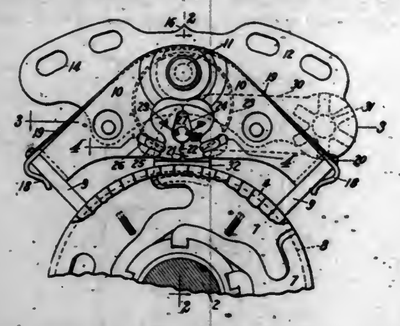


In a clamp of the class described, a beam comprising a pair of spaced angle bars, two legs of said angle bars being arranged in spaced parallel planes so as to provide a slot in said beam, the other legs of said angle bars being arranged in a single plane so as to provide a seat, a cleat supported on said beam and including a shank extending through said slot, a head integrally formed on one end of said shank and having grooves therein for receiving the edges of said parallel legs, said shank having a keyway, and a wedge in said keyway spanning said slot for bearing between the seat of said beam and one end of said keyway to lock said cleat against movement longitudinally of said slot.

1,756,692. BRUSH-LIFTING MECHANISM FOR ELECTRIC MOTORS AND THE LIKE. GEORGE H. LELAND, Dayton, Ohio, assignor of one-half to The Leland Electric Company, a Corporation of Ohio. Filed Sept. 4, 1928. Serial No. 303,681. 10 Claims. (Cl. 171—324.)

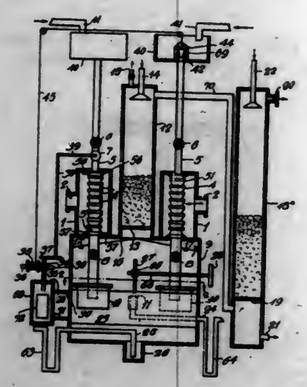
1. In a brush lifting mechanism for electric motors and the like comprising a movable device having means for supporting a brush for movement therewith into and out

of engagement with the commutator of said motor, and an actuating device having means for connecting the same with said brush supporting device, an operating member



movable in a substantially radial direction with relation to said commutator to control the movement of said actuating device, and a link to connect said operating member with said actuating device.

1,756,693. METHOD OF AND APPARATUS FOR TREATING VAPORS, GASES, AND THE LIKE. NILS GERHARD LINDERBORG, New York, N. Y. Filed Apr. 28, 1923. Serial No. 635,201. 29 Claims. (Cl. 183—114.6.)

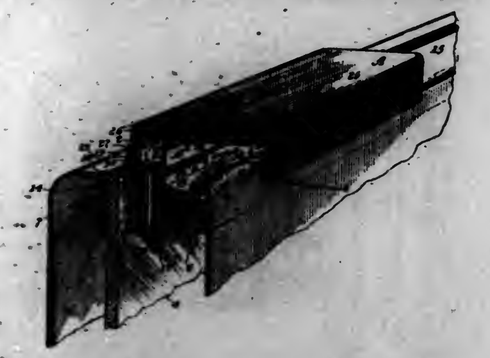


1. The method of treating heated gases or vapors which consists in subjecting the same to the action of a cooling medium under vacuum then imparting eddies to the resulting mass of condensates and cooling medium, and then isolating the condensates.

3. In an apparatus for condensing heated gases or vapors, a chamber to receive the gases or vapors, a pipe extending through said chamber, said pipe having openings into said chamber, means to cause a stream of cooling medium to flow through said pipe, said openings acting to permit the gases or vapors to be drawn into said pipe and carried along with the flow of the cooling medium, and a trap or seal for the end of the pipe to prevent the reverse flow of the gases or vapors through said pipe.

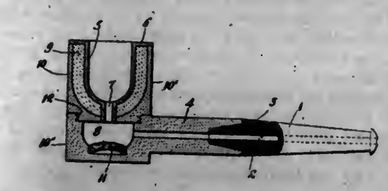
1,756,694. ARM REST FOR AUTOMOBILES. HARRY M. LOEHR, La Grange, Ill., assignor of one-fourth to Frank H. Foster and one-fourth to George H. Shank, Chicago, Ill. Filed June 28, 1928. Serial No. 288,904. 7 Claims. (Cl. 155—198.)

1. In a device of the class set forth, an anchor adapted for attachment to the window-sill at a point inside the glass, and an arm-rest provided with means at its underside detachably engaged with said anchor, said means being provided with instrumentalities permitting the arm-



rest to move forwardly or backwardly on said anchor, and means for locking the arm-rest in either its forward or rear position.

1,756,695. PIPE. EUGENE LUCAS, Babylon, N. Y. Filed Apr. 8, 1926. Serial No. 100,484. 5 Claims. (Cl. 131—12.)



2. A clay pipe comprising in combination a bit, a stem, a body portion formed in the plastic state of three bowls into an integral unit and glazed internally and externally, said body portion consisting of an inner bowl, an outer bowl, and a lining between said inner and outer bowls of heat insulating material.

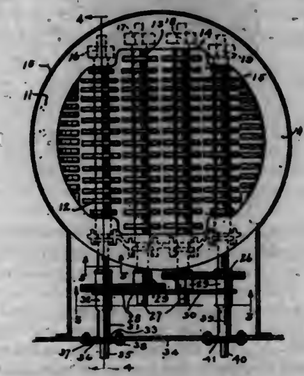
1,756,696. STOVE PIPE. GEORGE MCNEE, Belwood, Ontario, Canada. Filed Dec. 2, 1927. Serial No. 237,315. 3 Claims. (Cl. 285—186.)



1. In a stove pipe the combination with a pipe length having a longitudinal groove formed in one edge adapted

to receive the other edge, and means for locking the inserted edge in said groove at one end, of a rivet secured at the other end of the pipe adjacent to one edge, and a latch arm pivoted at one end adjacent the other edge of the pipe and having a slot extending radially from its pivot adapted to slidably receive said rivet and having a laterally extending notch at one end to lock with the rivet to secure the pipe in the closed position.

1,756,697. FURNACE-GRATE-BAR CONSTRUCTION. HARRY W. NEAL, Indianapolis, Ind., assignor to Hall-Neal Furnace Company, Indianapolis, Ind. Filed Oct. 26, 1928. Serial No. 315,137. 5 Claims. (Cl. 126—181.)



1. In a furnace, a grate bar removably carried in the furnace, a shank on the forward end of the bar, a gear slidably carried on the shank but fixed to rotate therewith, a shaft having a socket adapted to fit over the end of the shank extending through said gear, a removable plate on said furnace, through which said shaft extends, and a shoulder on said shaft bearing against said plate whereby said shaft socket is held on said shank.

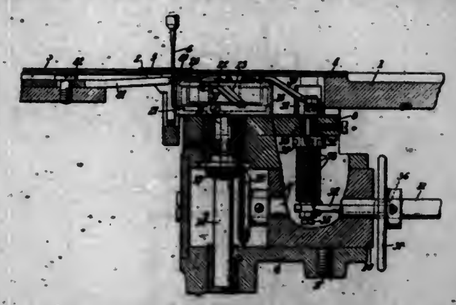
1,756,698. SAFETY GASOLINE HOSE. JOHN M. ODEN, Brooklyn, N. Y. Filed Jan. 11, 1927. Serial No. 160,362. 3 Claims. (Cl. 137—90.)



1. A gasoline hose comprising a flexible pervious metallic liner, a rubber cover therefor, a flexible sheath interposed between the liner and the cover, an end shield at the end of the hose overlying the end edges of said sheath and cover, means rendering both said sheath and said shield impervious to passage of liquid hydro-carbon fuel therethrough to the cover, and said sheath and shield being in engagement with each other to provide a joint impervious to the passage of liquid hydro-carbon fuel therethrough to said cover.

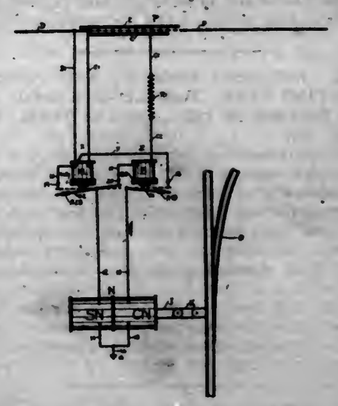
1,756,699. ROTARY-HOOK SEWING MACHINE. WILLIAM NELSON PARKES, Brooklyn, N. Y., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Aug. 11, 1927. Serial No. 212,172. 7 Claims. (Cl. 112—184.)

1. In a sewing machine, a reciprocatory needle, a vertical-axis loop-taker performing a multiple of rotations during each reciprocation of the needle, a bobbin-carrier journaled in said loop-taker, stationary means for restraining said bobbin-carrier against rotation with the loop-taker, a movable finger adapted to impart a short



oscillation to the bobbin-carrier in a direction opposite to the direction of rotation of the loop-taker, and means for actuating said finger to oscillate the bobbin-carrier once only for each needle reciprocation.

1,756,700. ELECTRICALLY-OPERATED TRACK SWITCH. FRANK H. RICHTERKESSING, Louisville, Ky., assignor to Cheatham Electric Switching Device Company, Lousville, Ky. Filed Mar. 11, 1927. Serial No. 174,526. 13 Claims. (Cl. 246—227.)

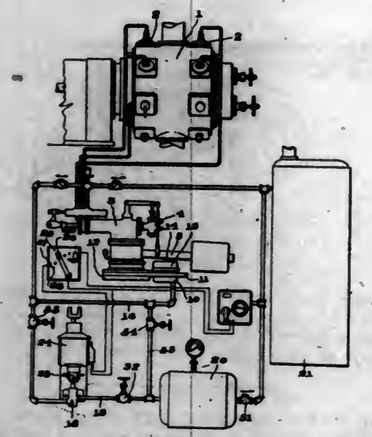


1. In a switch operating system the combination of an electrically operated track switch, a trolley conductor, trolley contactor to be engaged by a current collector, separate circuits for conducting current to the track switch solenoids for operating the switch in the direction desired when the current collector engages the trolley contactor with "power on" or "power off", control switches to control each branch circuit individually, each switch provided with an operating coil, one switch to close the circuit for operating the track switch "straight ahead" when the system works "power off", and the other switch to close the circuit for operating the track switch to the "curved" position when the system works "power on" and open the controlling circuit of the other switch to prevent operating currents being applied to both operating solenoids simultaneously.

1,756,701. UNLOADING MECHANISM FOR COMPRESSORS. MICHAEL RIESNER, Cincinnati, Ohio, assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Nov. 18, 1926. Serial No. 149,090. 14 Claims. (Cl. 230—28.)

1. The combination with an air or gas compressor, unloading mechanism therefor, and a pressure governor in-

cluding a pivoted lever for controlling operation of said unloading mechanism, of pressure operated means acting upon said lever to operate said pressure governor to unload the compressor upon the cutting off of operating power of the compressor and to maintain said unloading mechanism in unloading position while the compressor is stopped.

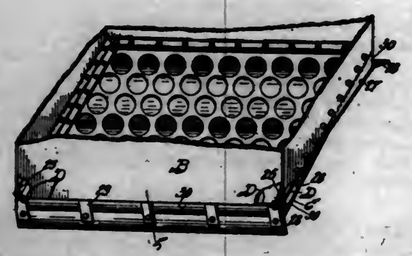


1,756,702. NUT-MEAT PRODUCT AND PROCESS OF PRODUCING SAME. JOSEPH L. ROSENFIELD, Alameda, Calif. Filed Mar. 30, 1925. Serial No. 19,279. 9 Claims. (Cl. 99—11.)

5. The hereindescribed process of producing a nut meat product which consists in malting the nuts, arresting the malting process after it has progressed to a desired degree, the arrest of malting being effected by heat, and the heating being continued until the nuts and their sprouted germs are roasted, blanching the nuts, and finally reducing the nuts and their sprouted germs to a homogeneous edible mass.

6. A nut meat product comprising a homogeneous mass of roasted malted nuts; the nuts together with their sprouted germs being comminuted into a homogeneous edible mass.

1,756,703. BATTERY BOX. EUGENE W. SCHELLENTRAGER, Shaker Heights, Ohio, assignor to The Atlas Bolt & Screw Co., Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 8, 1927. Serial No. 173,686. 12 Claims. (Cl. 105—51.)



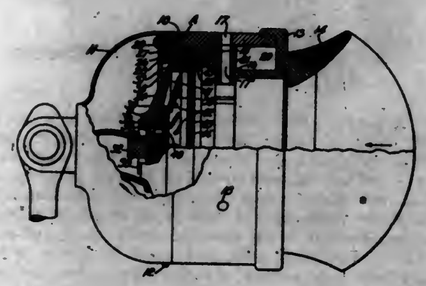
1. A battery box including a drainable bottom plate to support battery trays, and a drain plate below said bottom plate and sloping downwardly from said bottom plate toward both sides of said box and extending beyond both of said sides.

1,756,704. ELECTRICAL OUTLET DEVICE. HAROLD E. SLADE, Glen Ridge, N. J., assignor to Beaver Machine & Tool Co. Inc., Newark, N. J., a Corporation of New Jersey. Filed Mar. 28, 1927. Serial No. 178,942. 3 Claims. (Cl. 173—338.)



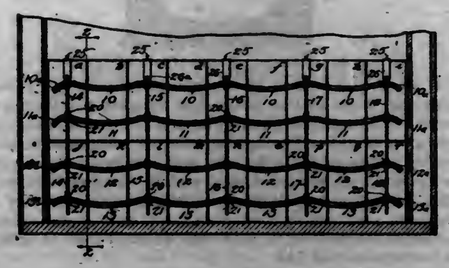
3. An electrical outlet comprising a substantially cylindrical, transversely divided two part housing including a cap member and a body member, said body member having a pair of parallel through apertures therein and also having opposed slots to accommodate conductor cords and said cap member having seats in its inner end registering with the inner ends of said apertures, blade engaging spring contacts in said apertures and having wire engaging means seated in said recesses, means for securing said cap to said body member and a protecting metallic shell completely enclosing said housing and having an inwardly deflected flange engaging a corresponding shoulder on the outer end of said housing, and having an outwardly deflected flange for securing said housing to a support, said outwardly deflected flange and shell having opposed aligning passages therein for the reception of a duplex electrical conductor, said passages being aligned with the slots in said body member.

1,756,705. VOICE SCREEN. WALTER F. SMITH, Jr., New York, and THEODORE H. CRABTREE, New Brighton, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1927. Serial No. 229,558. 8 Claims. (Cl. 179—121.)



3. A telephone transmitter comprising a pair of electrodes, resistance varying material in contact with said electrodes, a perforated diaphragm for actuating the resistance varying material, the size of the perforations in said diaphragm being such that the effective driving force of the air waves is diminished at low speech frequencies and not affected at high speech frequencies.

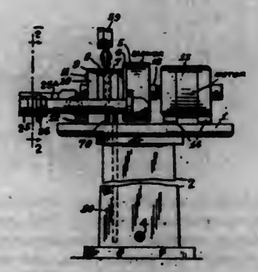
1,756,706. PROTECTOR FOR ICE IN TRANSIT. OTTO STRUVE, Dwight, Ill. Filed July 5, 1929. Serial No. 376,020. 9 Claims. (Cl. 105—376.)



1. An ice protector of the character described comprising a network of cushioning material adapted to lie upon the exposed vertical surface of a row of cakes of ice, with supporting means for holding said network suspended to lie upon such surface in operative position.

2. The combination of claim 1 hereof in which shock absorbing elements of said network are of rope.

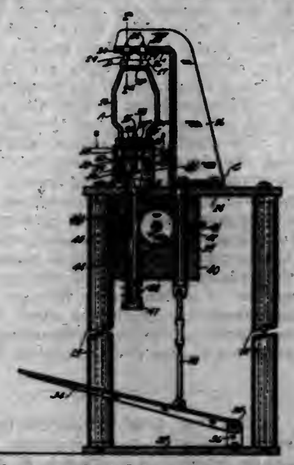
1,756,707. OIL-BURNING APPARATUS. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor, by mesne assignments, to Sundstrand Engineering Company, Rockford, Ill., a Corporation of Illinois. Filed July 17, 1922. Serial No. 575,642. 10 Claims. (Cl. 158—36.)



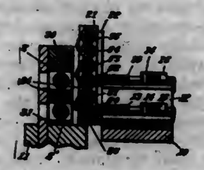
1. A compact oil-burning apparatus having, in combination, a supporting structure, a shaft journalled in said structure, said structure containing a blower chamber, an air pump chamber, an oil pump chamber, a valve chamber and a mixing chamber, an impeller mounted on said shaft in the mixing chamber, a valve disk mounted on said shaft in the valve chamber, a rotor mounted on said shaft in the oil pump chamber, a rotor mounted on said shaft in the air pump chamber, and fan blades on said shaft in the blower chamber, said structure having therewithin an air inlet passage establishing communication between the atmosphere and the air pump chamber, a passage connecting the air pump chamber to the mixing chamber, and a passage connecting the oil pump chamber to the valve chamber, the valve chambes being connected to the mixing chamber by a port controlled by said valve disk.

1,756,708. SHOE-HEEL-SETTING DEVICE. WALTER A. THUM, St. Louis, Mo. Filed Jan. 30, 1928. Serial No. 250,467. 9 Claims. (Cl. 12—125.)

1. A heel-set including an approximately U-shaped body-member adapted to embrace the shoe-assembly, in combination with a second member shiftable relatively to the body-member for co-operative engagement with the shoe-assembly, and means adapted for engagement with the legs of the body-member for retaining the second member in shifted position in setting the heel to the shoe.

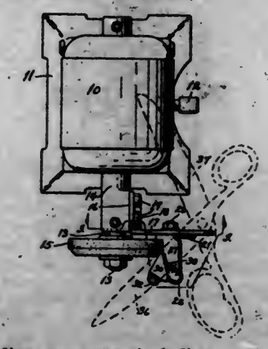


1,756,709. METHOD OF CONTROLLING WEFT ENDS IN AUTOMATIC LOOMS. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 16, 1928. Serial No. 293,223. 15 Claims. (Cl. 139—257.)



1. The method of controlling weft ends in a weft replenishing mechanism which consists in tying together the ends of weft extending from two reserve bobbins, and transferring one bobbin and leaving the other bobbin untransferred, the weft end of the untransferred bobbin resisting directly the pull of the weft of the transferred bobbin to cause the last named weft to be unwound as the bobbin attached thereto is picked.

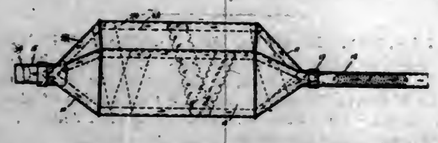
1,756,710. GRINDING APPARATUS. MARTIN TUTTLE, Des Moines, Iowa. Filed Mar. 12, 1928. Serial No. 261,147. 1 Claim. (Cl. 51—102.)



In a grinding apparatus including a motor having a grinding wheel mounted on its armature shaft, an attach-

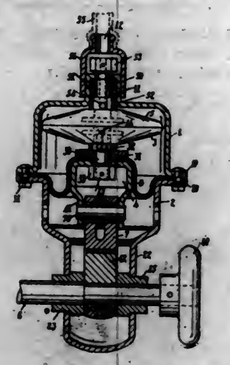
ment comprising a bracket rigidly fixed to the motor and extending laterally therefrom, a movable bracket extending across said fixed bracket and adjustable longitudinally thereof, means for maintaining said movable bracket in a position at right angles to the fixed bracket, a support for a work object carried by the upper end of the movable bracket, the line of adjustment of the movable bracket relative to the fixed bracket being parallel with a line through the axis of the grinding wheel and through the point of contact of a work object on said support with the periphery of said wheel, whereby a constant bevel may be maintained on the edge of the work object being ground, said movable bracket also being adjustable transversely of said movable bracket and the work support being correspondingly pivotally adjustable on the movable bracket, whereby a work object on the support may be caused to engage a different point on the periphery of the wheel without changing its angular relation to a line drawn through the point of contact and through the axis of the wheel, together with graduations to guide in making corresponding adjustments of the movable bracket transversely and of the work support.

1,756,711. MUFFLER FOR INTERNAL-COMBUSTION ENGINES. HAROLD E. VAN VOORHEES, Indianapolis, Ind., assignor of one-half to Francis F. Hamilton, Indianapolis, Ind. Filed Jan. 16, 1928. Serial No. 246,925. 4 Claims. (Cl. 137—160.)



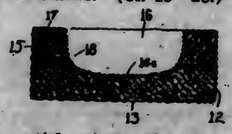
1. A muffler for exhaust gases of an internal combustion engine including an outer drum, an inner drum spaced therefrom, a plurality of partitions mounted between said drums for separating the space therebetween into a plurality of passage-ways, and means for connecting said passage-ways with the exhaust pipe of the engine, whereby an impulse of gas will be divided into a plurality of sectional impulses directed through their respective passage-ways, said drums being involute in cross section.

1,756,712. AIR COMPRESSOR. HENRY H. VAUGHAN, Montreal, Quebec, and WILLIAM G. CUMMING, Westmount, Quebec, Canada, assignors to Cumming Pump Corporation Limited, Montreal, Canada, a Corporation of Canada. Filed Feb. 25, 1929. Serial No. 342,598. 13 Claims. (Cl. 230—160.)



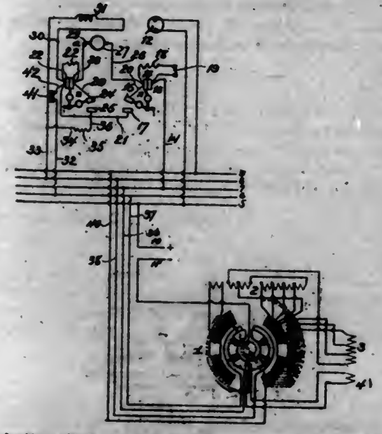
1. In an air compressor, a pump chamber, a pump comprising two discs mounted therein, a flexible diaphragm forming a portion of the chamber wall, the reciprocating element of the pump carrying one of the discs secured to the diaphragm, and means to reciprocate such element.

1,756,713. RUBBER-SPONGE SOAP DISH. WALDEMAR VERNET, New York, N. Y. Filed Dec. 3, 1929. Serial No. 411,274. 2 Claims. (Cl. 45—28.)



1. As a new article of manufacture, a sponge rubber soap dish made of two pieces, one forming a bottom and the other upstanding walls forming a rim for said bottom, one of said pieces having the integral substantially non-porous rubber skin left thereon, said bottom and said walls being made of sponge rubber readily compressible, non-warping, and not decomposed by the constant presence of moisture, said bottom portion and said wall portions being cemented together with said skin therebetween to stiffen and reinforce said dish.

1,756,714. LIMIT-SWITCH DEVICE. HARRY A. WACKERLY, Alliance, Ohio, assignor to The Morgan Engineering Company, Alliance, Ohio. Filed May 25, 1922. Serial No. 563,734. 7 Claims. (Cl. 172—152.)



1. Limit switch means for motor control, comprising a movable member carrying contacts, fixed contacts for co-operation with the movable contacts, means connected with the movable member of said switch and operable by an electric motor driven means for shifting the movable switch member in one direction, and single solenoid electro-magnetic means connected with the movable member of the switch and operable to shift the same in the reverse direction when the circuit of the electric motor is reversed.

1,756,715. BUTTON. FRANKLIN R. WHITE, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 2, 1929. Serial No. 396,863. 8 Claims. (Cl. 24—95.)



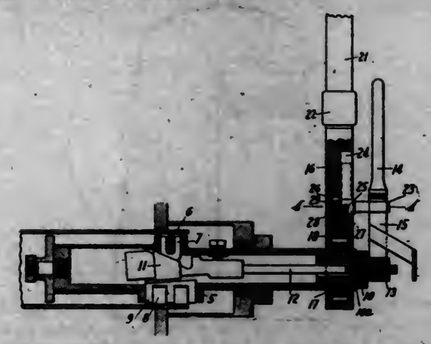
1. A button head comprising a body of shell formation, a cap having a soft metal insert pressed to distortion within the peripheral rim of the cap to form a substantially unitary cap and the rim of said cap being pressed over the body shell.

1,756,716. SUPPORTING BAR. KARL H. WHITNEY, Kirksville, Mo., assignor to Whitmanis Manufacturing Company, Inc., Kirksville, Mo., a Corporation of Missouri. Filed Mar. 1, 1928. Serial No. 258,236. 5 Claims. (Cl. 211—128.)



2. A supporting bar comprising a first bar section having an overhanging lip at one end, a second bar section hinged to said first bar section substantially at the base of said lip, a third bar section movable telescopically relative to one of said first and second bar sections, means to lock said third bar section to its adjusted position, and shoes at opposite ends of said supporting bar adapted to engage supporting abutments, said bar sections and shoes being adjustable from an angular idle position into an operative position between two abutments in which position they are all in substantial alignment.

1,756,717. WRENCH. GUSTAV WIEDEKE, Dayton, Ohio, assignor to Gustav Wiedeke Company, Dayton, Ohio, a Copartnership consisting of Gustav Wiedeke, Otto Wiedeke, and Robert Wiedeke. Filed Apr. 27, 1928. Serial No. 273,865. 8 Claims. (Cl. 81—61.)



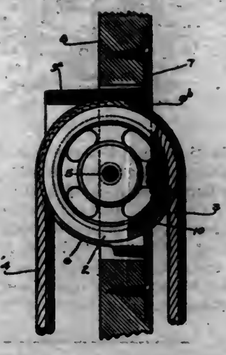
1. In a wrench of the character described, comprising a body portion movable about a transverse axis, a socket member rotatably mounted in said body portion and adapted to receive the shank of a tool, and means to cause said socket member to rotate with said body portion when the latter is moved in one direction and to permit said body portion to rotate with relation to said socket member when it is rotated in the other direction, said body portion having a radial recess in one face thereof, a pin having one end pivotally mounted in said recess and adapted either to lie within said recess or to extend outwardly beyond said body portion and substantially parallel with said axis.

1,756,718. LATCHING DEVICE. GUNTHER PHILIP WILD, Philadelphia, Pa. Filed May 5, 1928. Serial No. 275,413. 1 Claim. (Cl. 292—254.)



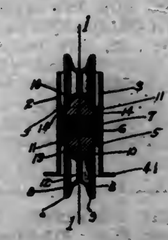
In a latch device of the character stated, a fixed casing having a passage entirely therethrough, a pair of endwise movable independent latches arranged within said passage, the outer end of each keeper being bevelled and notched and the inner ends of said keepers being hollowed out and marginally provided with a male and female arrangement of parts for meshing engagement, a spring arranged between said latches and seated in the hollowed out parts of said latches, and means including a fixed strap having pendant terminals with which the notched parts of said latches engage to limit the outward movement of said latches.

1,756,719. SASH PULLEY. FRED C. ANDERSEN and CLARENCE P. BIRD, Bayport, Minn., assignors, by mesne assignments, to Andersen Foundry Company, Bayport, Minn., a Corporation of Minnesota. Filed Aug. 22, 1927. Serial No. 214,654. 1 Claim. (Cl. 16—210.)



A sash pulley comprising a housing having a grooved pulley mounted therein, a facing plate on said housing having a slot through which the pulley projects, a shoulder or ledge on said facing plate at the upper end of said slot having a curved edge facing the groove in said pulley and co-operating with the sash cord to close the gap between the end of said slot and the cord, and a tongue at the lower end of said slot extending upwardly into the pulley groove to close the gap between the periphery of the pulley and said facing plate.

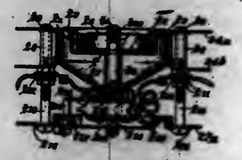
1,756,720. SASH PULLEY. FRED C. ANDERSEN and CLARENCE P. BIRD, Bayport, Minn., assignors, by mesne assignments, to Andersen Foundry Company, Bayport, Minn., a Corporation of Minnesota. Filed Feb. 29, 1928. Serial No. 258,082. 2 Claims. (Cl. 16—215.)



1. A sash pulley having a housing composed of oppositely arranged plates having recesses or depressions formed therein, and provided with orifices, a sheave composed of sheet metal rings having inwardly and outwardly flaring edges and a central opening, the walls of said ring members intermediate to said edges being secured together, a bushing of fibrous material having its outer portion fitting between the flanged inner edges of said sheave, said bushing having a central bore therethrough and provided on each side with lateral protruding sections whereon the flanged edges of said sheave are seated, the end faces of said sections being flush substantially with said flanged

edges, the faces of said bushing sections opposing the inner faces of the depressions of said housing, and a pin passing through said housing plates and said bushing, and having its ends headed in the depressions of said housing plates.

1,756,721. ELECTRIC STOVE. CHARLES C. ARMSTRONG, Huntington, W. Va., assignor to The Armstrong Electric and Manufacturing Corporation, a Corporation of Delaware. Original application filed Aug. 3, 1925, Serial No. 47,830. Divided and this application filed Feb. 18, 1928, Serial No. 255,423. Renewed Mar. 4, 1930. 7 Claims. (Cl. 200—139.)



1. In combination with a thermostatic member, a shaft having a shoulder, a sheet metal member, a spring washer and screw for holding said member frictionally in connection with said shoulder, spring arms on said sheet metal member, a mercury tube carried by said spring arms, an indicator arm of said sheet metal member, an indicator arm of sheet metal having projections at its opening for engaging a kerf of said shaft and a scale over which the arms move, substantially as described.

1,756,722. PULP PRODUCT AND PROCESS OF MAKING THE SAME. ROBERT B. ARNOLD, Richmond, Va., and RALPH M. HIXON, Ames, Iowa, assignors to Tobacco By-Products & Chemical Corporation, Louisville, Ky., a Corporation of Delaware. Filed Nov. 12, 1927. Serial No. 232,944. 1 Claim. (Cl. 92—20.)

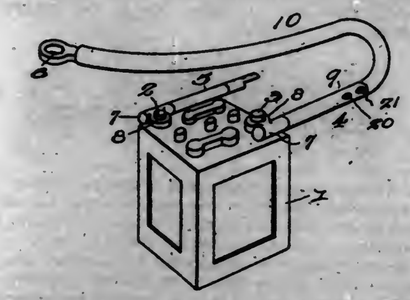
In a process of making a pulp product from tobacco waste material, the steps which comprise extracting nicotine from said material and also removing from it all other constituents which are readily soluble in water, then mechanically reducing the extracted tobacco plant material to a mass of matted strips, drying said matted mass, then beating said dried mass in water, together with other materials to produce a pulp, using said pulp to form a sheet and drying the sheet.

1,756,723. PROCESS FOR TREATING ANIMAL HAIR AND WOOL WITH CHLORINE. ERICH BÖHM, Vienna, Austria. Filed Nov. 22, 1927, Serial No. 235,125, and in Austria Dec. 1, 1926. 5 Claims. (Cl. 8—21.)

1. A process for carroting animal hair and wool comprising the step of applying to the hair and wool aqueous solutions of hydrogen chloride and a chlorate and causing the two substances to react with each other in contact with the hair and wool.

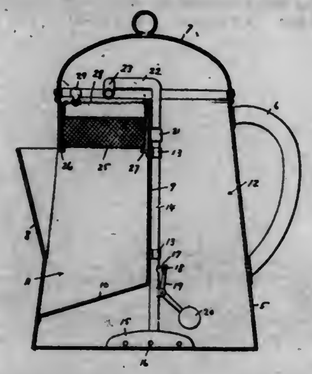
1,756,724. BATTERY TERMINAL. OSWELL L. BOOSINGER, Independence, Kans. Filed Oct. 13, 1927. Serial No. 225,933. 1 Claim. (Cl. 173—259.)

A battery terminal as herein shown and described, comprising a terminal head provided with a ring for connection with a battery post and having a socket in one end, a cable section having a reduced end to snugly fit said socket of the terminal head and having a similar reduced opposite end, a sleeve having a socket similar in size and shape to the socket of the terminal head to receive the other reduced end of said cable section, said sleeve being formed with a tongue of semi-circular form in outline, a conductor member having a tongue of semi-circular form in outline to make a joint with the similar tongue of the sleeve, fastening means passing through said tongues to form a circular joint, and insulating sleeves



covering said cable section and conductor member entirely to protect and cover all metal surfaces and to form an insulating covering of uniform size and shape throughout.

1,756,725. COFFEEPOT. CLAUDE GEORGE BORDEAUX, Slingerlands, N. Y. Filed June 12, 1929. Serial No. 370,353. 1 Claim. (Cl. 53—3.)

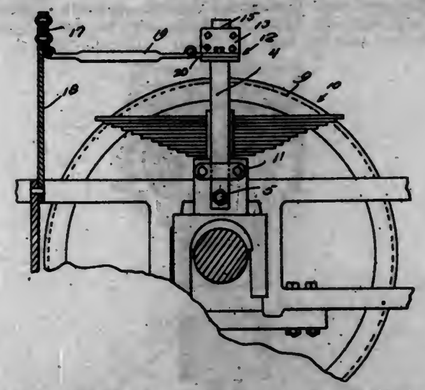


As a new product of manufacture, an accessory for use in association with a coffee maker of the class described comprising a hollow concavo-convex base having water inlet apertures, a tube rising vertically therefrom and provided with a vent port, a bell crank mounted on the tube below said port, a valve carried by one arm of the bell crank and cooperable with said port, and a float carried by the remaining arm, a substantially L-shaped pipe having a vertical branch fitted telescopically and detachably over the end portion of said tube, and a horizontally right angularly disposed apertured distributing head carried by the horizontal branch of said L-shaped pipe.

1,756,726. WHEEL-FLANGE LUBRICATOR. CHARLES A. BROST, Glasgow, Mont., assignor of one-fourth to Frank Miller and one-fourth to Thomas Dignan, Glasgow, Mont. Filed Dec. 12, 1927. Serial No. 239,515. 1 Claim. (Cl. 184—3.)

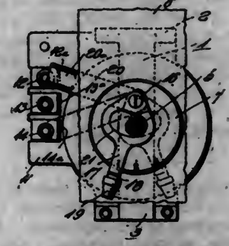
In a structure of the class described, in combination, a locomotive body, a car wheel, a saddle strap disposed adjacent the car wheel, a supporting strap pivotally connected at its lower end to the saddle, a horizontally disposed guide strip on the saddle, and said strap extending upwardly through and beyond said guide strip and having its upper end curved and overhanging the flange of the car wheel, a pair of clamping plates, means for securing one of said plates to the upper overhanging end of the supporting strap, a casing carried by the clamping plate,

lubricating means in the casing and adapted to maintain itself in contact with the wheel flange through the action



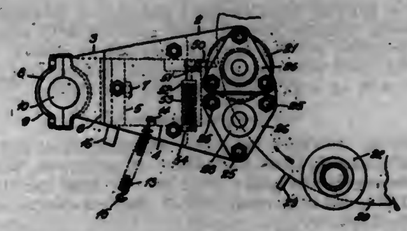
of gravity, a hinged strap connected to one of said clamping plates, a second hinge strap connected to said body and a link connected with said hinge strap.

1,756,727. ELECTRICAL CONTROL APPARATUS. WILLIAM M. BROWER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Sept. 3, 1926. Serial No. 133,431. 7 Claims. (Cl. 200—11.)



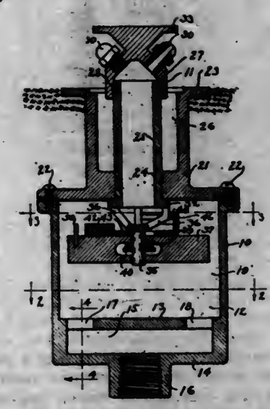
1. An electrical control apparatus comprising a frame, a shaft member journaled in said frame, an insulated panel structure carried by said frame, a plurality of contacts supported on said panel structure, a switching device journaled in said frame at a point remote from said shaft member, a control lever for said switching device, said control lever being angularly movable to a multiplicity of positions including opposite limiting positions and an intermediate position and surrounding opposite sides of said shaft member and limited at opposite ends of its path of movement by abutment with said shaft member.

1,756,728. MULTIPLE PRESS HEAD FOR GLASSWARE-SHAPING MACHINES. CLINTON S. BUDD, Clarion, Pa., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Nov. 3, 1925. Serial No. 66,513. 12 Claims. (Cl. 49—85.)



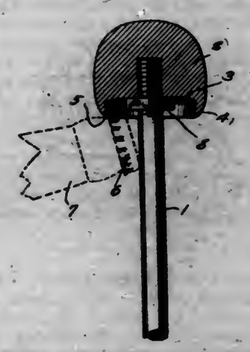
1. Glass-working apparatus comprising a rotary mold table, molds carried thereby, lugs carried by said table in advance of certain of said molds, a press head mounted to swing on a horizontal axis, a plurality of pressing plungers carried by said press head and movable successively to a position above a pressing station to which said molds are brought by the rotation of said table, a lug carried by said press head and adapted to be engaged by said first named lugs to swing said press head from a position in which one of said plungers is at the said pressing station to a position where another of said plungers is at the said pressing station, and a spring for returning said press head to its initial position when said lugs are disengaged.

1,756,729. SPRINKLER. WALTER H. COLES and BERT J. NELSON, Troy, Ohio, assignors to The Skinner Irrigation Company, Troy, Ohio, a Corporation of Ohio. Filed Mar. 12, 1928. Serial No. 260,985. 18 Claims. (Cl. 299—61.)



1. A device of the class described comprising a support adapted to receive water under pressure, a sprinkling member rotatably mounted on said support and having a sprinkling nozzle, a device rotatably mounted adjacent said member and adapted to be revolved by the power of the water supplied to said support, and means carried by said device and adapted to be urged outwardly under the action of centrifugal force so as to strike said member and impart a rotative impulse to said sprinkling member for each revolution of said device.

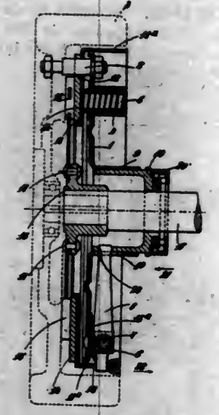
1,756,730. DECAPPER FOR BOTTLES. CLEMONS C. CROSBY, Belmond, Iowa. Filed May 20, 1929. Serial No. 364,560. 2 Claims. (Cl. 65—46.)



1. A bottle opener comprising a standard, a head on the upper end of the standard, the head being provided in its lower end with a recess defining a circumferentially continuous flange constituting a shoulder which, cooperat-

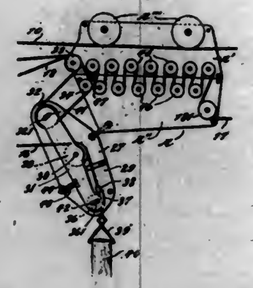
ing with the standard, forms a means whereby a bottle cap may be removed at a point anywhere around the standard and the head and means for securing the lower end of the standard, thereby to maintain the standard anchored in an approximately vertical position.

1,756,781. DISK FRICTION CLUTCH. EDOUARD JEAN DASROZIERS, Paris, France. Filed Mar. 9, 1928, Serial No. 260,483, and in France Mar. 23, 1927. 5 Claims. (Cl. 192—68.)



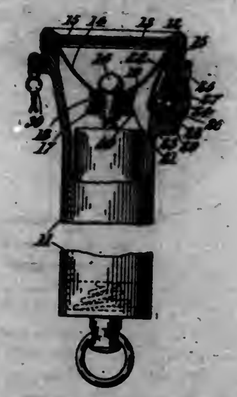
1. In a friction clutch, the combination of a plate fixedly connected to one of the clutch parts and rotating therewith, a friction disk arranged in spaced relation to said fixed plate, a compression plate located intermediate said friction disk and said fixed plate, a peripheral lip to said compression plate surrounding said fixed plate, a plurality of members pivotally connected to said fixed plate on the opposite side thereof to said compression plate, means for oscillating said members relative to said fixed plate, and means associated with the lip of said compression plate with which said members engage directly for displacing said compression plate relative to said friction disk.

1,756,782. SKIDDING CARRIAGE. JOSEPH H. DICKINSON, Winter Park, Fla., assignor to Lidgerwood Manufacturing Company, New York, N. Y., a Corporation of New York. Filed May 6, 1927. Serial No. 189,204. 3 Claims. (Cl. 212—87.)



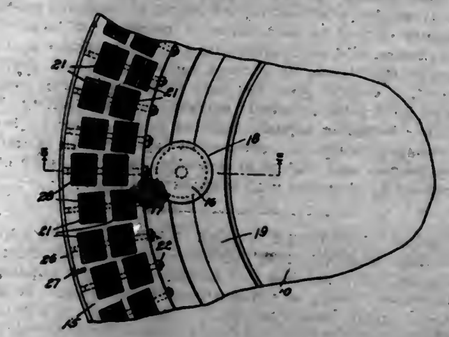
1. In a hoisting and conveying device comprising a main supporting cable, a traveling carriage adapted to traverse said cable and divided into an upper and a lower section, an outhaul cable lacing together said sections and attached at one end to the lower section of said carriage.

1,756,783. PORTABLE ELECTRIC LAMP. JOHN DOWNS, Acton Green, England, assignor to himself and Watts Finchem and Company, Limited, London, England. Filed Sept. 24, 1928, Serial No. 308,003, and in Great Britain May 25, 1928. 3 Claims. (Cl. 240—10.5.)



1. A portable electric lamp comprising, a cell containing member having a reflector mounted at one end thereof, a lamp holder mounted in the reflector, a switch mounted on and in electric connection with the cell containing member and adapted to be actuated to make and break electrical contact with the reflector, switch actuating mechanism mounted on the cell containing member accessible at the exterior thereof for forcing said switch into contact with the reflector, and an electrical insulating and gas tight elastic member interposed between the switch and said actuating mechanism to seal the cell containing member against passage of gas thereinto, the said elastic member yielding to permit operation of said mechanism to actuate the switch.

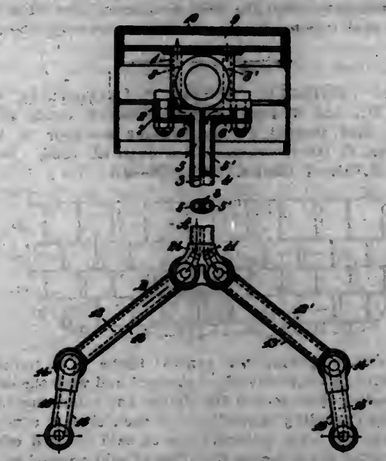
1,756,784. GRINDING WHEEL. THOMAS F. EMMINGER, West View, Pa., assignor to Pittsburgh Clay Pot Company, a Corporation of Pennsylvania. Filed July 15, 1925. Serial No. 43,765. 2 Claims. (Cl. 125—5.)



1. A grinding wheel having a plurality of openings for receiving abrading elements and provided with slots in the periphery adjacent said openings and an element supporting shaft extending through said openings and provided with an angular end seated in said slots.

1,756,785. PISTON-COOLING DEVICE FOR INTERNAL-COMBUSTION ENGINES. PAUL FUNKE, Berlin-Schoeneberg, Germany. Filed Dec. 19, 1928, Serial No. 327,118, and in Germany Jan. 7, 1928. 3 Claims. (Cl. 123—176.)

1. In an internal combustion engine a twin tube fixed on the piston and communicating with the cooling chamber thereof, a twin casing mounted on the free end of said twin tube, two bearing sleeves symmetrically arranged in said casing normally to the direction of motion of said piston, a hollow pin lodged in each of said sleeves, two



passages in said casing each connecting one of said hollow pins to one tube of said twin tube, an articulated tube conductively connected to each of said hollow pins, and means for relieving said articulated tubes from additional stresses.

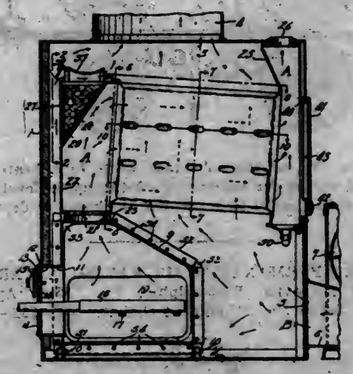
1,756,736. FASTENER. FELICE GALLINA, West New York, and SIGISMONDO GALLINA, Hoboken, N. J. Filed May 12, 1927. Serial No. 190,782. 1 Claim. (Cl. 24—205.)



In a device of the class described, a plurality of strips having fastening members attached to said strips in staggered relation whereby the fastening members of one strip may project into the spaces between the fastening members of the other strip, one set of fastening members having laterally projecting members on one side thereof and having lengthwise slots in the side opposite said projections, said slots extending inwardly from the free ends of said members, the other set of fastening members having on one side edge thereof depressions to receive said projections of the first mentioned fastening members in locking engagement therein, and having on their opposite side edges, laterally extending projections extending inwardly from their free ends, said projections being adapted to slide and be guided in said slots of said first members and to close the spaces between said first and said second fastening members, and a slider for engaging and disengaging the sets of fastening members.

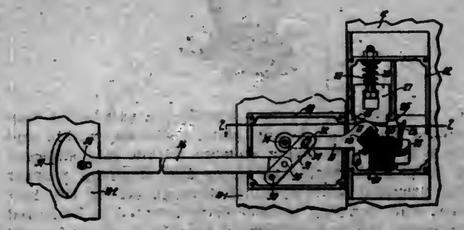
1,756,787. HEATER. WILLIAM JOHN GAMBLE, Allentown, Pa., and ALFRED E. STACEY, Jr., Caldwell, and WILLIAM B. THORNTON, Newark, N. J., assignors to Carrier Engineering Corporation, Newark, N. J. Filed Dec. 31, 1927. Serial No. 243,972. 34 Claims. (Cl. 126—116.)

1. A heater comprising a unit formed of a plurality of sheet metal plates spaced from one another face to face to form flues, and having their adjacent end edges connected along their entire lengths to one another in pairs and their adjacent edges of both top and bottom along their entire lengths connected to one another also in pairs which are different from the first mentioned pairs, to divide the flues into separate non-communicating groups which extend in directions crosswise of one another, a header con-



nected to said unit and communicating with one group of flues, at one end thereof, another header connected to the other end of said unit and communicating with the other end of said one group of flues, a fire box connected to the first mentioned header, a casing enclosing said headers, unit and fire box, and means for circulating a fluid to be heated, through said casing, around said headers and fire box, and through said other group of flues.

1,756,738. ELECTRIC ELEVATOR-DOOR INTERLOCK. RAY C. GREEN, Salt Lake City, Utah. Filed Feb. 9, 1928. Serial No. 253,178. 6 Claims. (Cl. 187—31.)

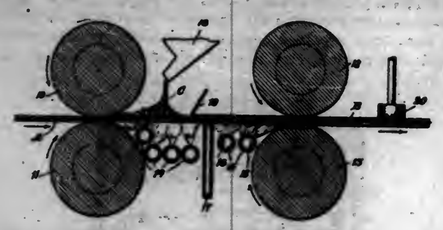


3. The combination with a door and an electric elevator door interlock including a door jamb having a box attached thereto, an opening defined in one end of said box, electrical contacts spaced apart from each other in said box, a pressure block spaced apart from said contacts, a door movable relatively to said jamb, a pivoted latch bolt carried by said door, said latch bolt having a head insertable through said opening and into the space between said contacts and said pressure block; of an oscillating link having one end thereof pivoted on said door, a slotted portion effective to cause said link to engage said latch bolt, and means operable to oscillate said link.

1,756,789. APPARATUS FOR APPLYING A SOFT-METAL SURFACING TO HARD-METAL PLATES. AUGUST GUNTHARD, Arcola, N. J., assignor to The Chemical Equipment Manufacturing Company, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 7, 1928. Serial No 304,602. 3 Claims. (Cl. 207—14.)

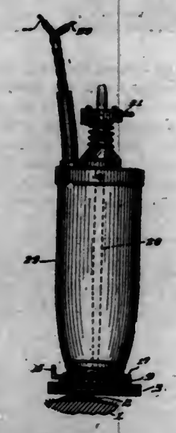
1. An apparatus for applying a soft metal coating or surfacing to hard metal plates, sheets, strips or the like comprising means for feeding the same horizontally in a

given direction, means below the plate for progressively heating and cooling the same in the direction of its movement, means for flowing onto the plate at its initial point



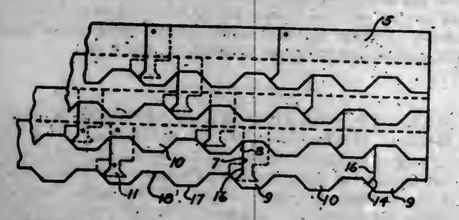
of heating the coating substance while in a heated fluid state and means for smoothing off the upper level of the coating while heated to a uniform thickness or depth.

1,756,740. PERMANENT-HAIR-WAVING APPARATUS. HARRY HANOVER, Philadelphia, Pa. Filed Apr. 11, 1928. Serial No. 269,046. 4 Claims. (Cl. 132—86.1.)



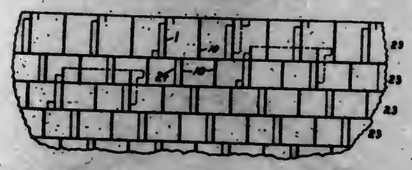
1. In a device of the class described, a hair-holder comprising a top plate, a bottom plate, a slideway within said bottom plate, a clamping member within said slideway and slidable therein, said plates and clamping member being provided with openings through which the hair passes, said clamping member being adapted to be moved to intersect the passage formed by said openings in said plates whereby the hair is compressed and securely held.

1,756,741. COMPOSITION SHINGLE. NORMAN P. HARSHBERGER, Pasadena, Calif., and RUSSELL P. HARSHBERGER, South Bend, Ind.; said Russell P. Harshberger assignor to said Norman P. Harshberger. Filed Apr. 19, 1926. Serial No. 102,879. 4 Claims. (Cl. 108—7.)



4. Strip shingles comprising a plurality of units placed in a row with their adjacent ends lapping, the edge of said units which is adapted to be exposed having a plurality of projections of similar shape, each projection adjacent the lapping ends of two units being formed by a projection of one unit having locking means in connection therewith and by a projection of another unit having locking means which cooperates with the locking means of the other projection, said two projections having registering sides.

1,756,742. SHINGLE. NORMAN P. HARSHBERGER, Chicago, Ill., and RUSSELL P. HARSHBERGER, South Bend, Ind.; said Russell P. Harshberger assignor to said Norman P. Harshberger. Filed July 12, 1926. Serial No. 121,761. 7 Claims. (Cl. 108—7.)



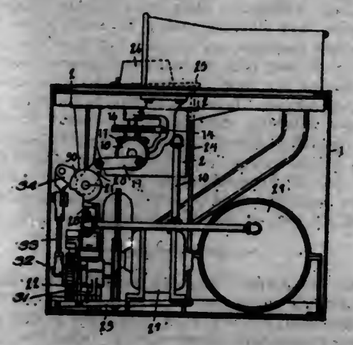
1. A shingle having the general shape of a parallelogram, with two opposite edges straight and with the other two opposite edges crooked but similar and complementary, and a slit extending inwardly from each of said straight edges, one slit being adjacent one of said crooked edges, and the other slit adjacent the other of said crooked edges.

1,756,743. ROOFING MATERIAL. NORMAN P. HARSHBERGER, Pasadena, Calif. Filed July 12, 1928. Serial No. 292,079. 10 Claims. (Cl. 108—7.)



1. A covering for roofs comprising a section of material having a portion formed with a recess and having another portion formed with a tongue, said tongue being formed by converging cuts in the same edge portion extending inwardly therefrom, a portion of said tongue being of greater width than a portion of the recess, the said recess being engageable with the tongue of a like section of material, and the said tongue being engageable with the recess of another like section of material.

1,756,744. COATING MACHINE. CHARLES T. HATCH, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich. Filed Mar. 16, 1928. Serial No. 262,165. 6 Claims. (Cl. 91—45.)



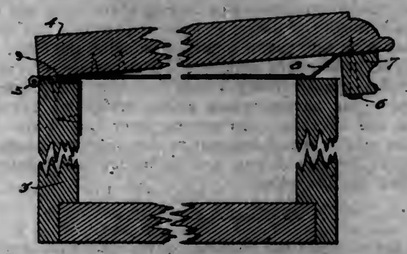
1. In a structure of the class described, the combination of a tank, a plurality of spray nozzles adapted to deliver fan-like sprays disposed in alignment and mounted for rotative movement, said spray nozzles being provided with axially disposed fluid intakes depending into said tank, an air supply conduit, flexible connections for said air supply conduit to said nozzles, a control valve for said air conduit, a cam operatively associated with said control valve, a pan table disposed above said tank, means for actuating said cam controlled from said pan table, pinions on said nozzles, a reciprocatingly mounted rack operatively associated with the several pinions, and operating connections from said cam to said rack.

1,756,745. RADIO APPARATUS. EDWIN E. HOBBS, Independence, Kans. Filed Feb. 4, 1928. Serial No. 251,793. 2 Claims. (Cl. 250—20.)



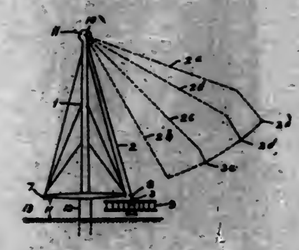
1. In static eliminator, the combination of a support, an antenna associated therewith, an insulated conducting wire leading from said antenna, a bare coil forming a part of said insulated conducting wire, a casing enclosing said coil, a chemical composition filling said casing and surrounding said coil, an insulated portion of said conducting wire leading from said casing to a set, a ground element composed of a closed metal casing, insulating means therefor, a filling in said casing and surrounding box, and a wire leading to said casing from a set.

1,756,746. CEDAR CHEST. JOHN B. HOGAN, Altavista, Va., assignor to The Lane Company, Inc., a Corporation of Virginia. Filed Apr. 27, 1928. Serial No. 273,296. 1 Claim. (Cl. 217—57.)



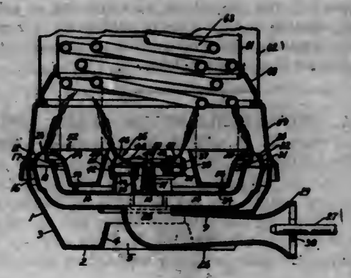
The combination with a container, of a cover adapted to close the container, and a resilient metal sealing strip secured at one edge to the cover, with its body normally deflected downwardly from the cover, and adapted to engage the top edges of the walls of the container and compressible toward the cover when the cover is closed, thereby sealing the joint between the cover and the top edges of the walls.

1,756,747. AEROPLANE-LANDING MEANS. LIONEL HOLLAND, Calcutta, British India. Filed Aug. 16, 1928, Serial No. 300,078, and in British India June 12, 1928. 20 Claims. (Cl. 244—2.)



1. Apparatus for despatching and landing aeroplanes, comprising a landing mast; a pivoted arm carried by said mast, and revolvable thereabout; an attachment device on the outer end of said arm for receiving an aeroplane; means balancing and controlling said arm in such manner that under the weight of a motionless aeroplane hanging from the end of the arm, the said arm will assume a downwardly inclined position, but which arm, as the aeroplane gathers speed around the mast, revolves about and will assume a raised position gradually approaching the horizontal, with its end sweeping through a path having a continually increasing radius and means for releasing or attaching an aeroplane at the desired position of the arm to the horizontal.

1,756,748. WATER-HEATER GAS BURNER. ROBERT C. HOYT, Oakland, Calif. Filed Dec. 9, 1926. Serial No. 153,506. 6 Claims. (Cl. 122—250.)

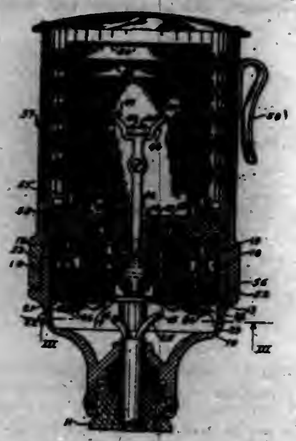


1. A burner of the character described comprising a gas chamber, two sets of tubular discharge arms extending therefrom, and two independent burner rings supported on the sets of arms respectively and arranged in concentric relation, the said rings provided with perforations arranged to discharge the gas in a column defined by the burner rings.

1,756,749. FILAMENT MOUNTING FOR GAS-DETECTING APPARATUS. WILLIAM F. HUNT, New Brighton, and JOHN K. MABBS, Bayside, N. Y., and WALTER B. ROWLAND, Upper Montclair, N. J., assignors to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Aug. 13, 1928. Serial No. 299,406. 18 Claims. (Cl. 73—51.)

1. A head for gas detectors comprising a base, a protective jacket adapted to be secured to said base and a

filament holding unit engaging said jacket and means holding said filament holding unit and jacket in engage-



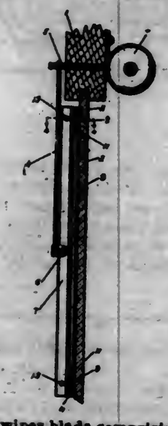
ment, said holding means being so situated that they can be operated only when the jacket is separated from the base.

1,756,750. CANDY-CUTTING MACHINE. DENNIS T. IGOU, Springfield, Ohio. Filed June 18, 1928. Serial No. 286,179. 9 Claims. (Cl. 107—21.)



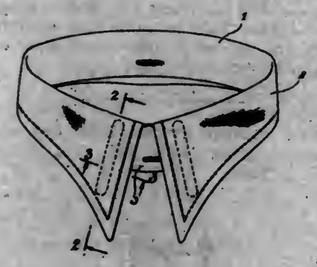
1. In a device of the character described, a support freely movable over a table, a horizontally arranged anvil carried by said support, a knife cooperating with said anvil pivoted to said support, a gage member carried by said support at the side of the forward end of said anvil, said gage member having a ledge connected therewith and extending inwardly and rearwardly to support the outer ends of the severed candy sticks.

1,756,751. WINDSHIELD-WIPER BLADE. WILLIS H. IVES, Owego, N. Y. Filed Jan. 19, 1928. Serial No. 247,939. 2 Claims. (Cl. 15—255.)



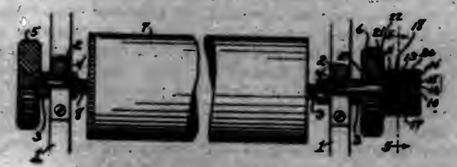
1. A windshield wiper blade comprising a channel formed holder, a wiper element secured therein, roller supports secured in the channel of said holder adjacent its ends, and rollers on said supports, the plane of said rollers lying below the plane of the free edge of said wiper element.

1,756,752. SOFT COLLAR. GUSTAVE JACOBY, Louisville, Ky., assignor to The Enro Shirt Company, Louisville, Ky., a Corporation of Kentucky. Filed Nov. 6, 1928. Serial No. 317,527. 8 Claims. (Cl. 2—132.)



1. A soft collar of the turned down type having a multiply outer fold, and having on the inner ply on the face adjacent to the outer ply a transversely arranged strip connected to form a pocket by stitching to the inner ply, whereby the stitching is not visible on the outer face of the outer ply, and a stiffening strip within the pocket, the inner ply having an opening at the end of the pocket near the junction of the fold to enable the insertion and removal of the stiffening strip.

1,756,753. PAPER-ROLL ADJUSTMENT FOR TYPEWRITERS, ETC. CHARLES W. JEFFRIES, Lake Charles, La., assignor of one-half to Earl C. Reid, Lake Charles, La. Filed Aug. 27, 1928. Serial No. 302,220. 5 Claims. (Cl. 197—146.)

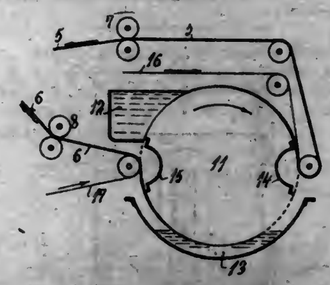


1. In a device for the purpose set forth, the combination with a platen roll, having square trunnions on the ends thereof, sleeves having squared bores receiving the trunnions therethrough, supports for the sleeves holding the same from longitudinal movement, a turning wheel on each sleeve, one of said trunnions having a threaded end projecting through the sleeve, a block comprising a nut which is screwed on said end, a collar surrounding the block and having an inner lipped engagement with the sleeve, a cylindrical cap member arranged over the collar interengaging therewith and having spring means influencing the said cap in one direction, lugs on the inner end of the cap, and the turning wheel adjacent to said cap having notches to receive the lugs therein, and connecting means between the block and the collar.

1,756,754. METHOD OF MANUFACTURING THICK WEBS OF WOOD PULP, CELLULOSE, AND SIMILAR MATERIALS. HARALD JENSEN, Oslo, Norway. Filed Dec. 18, 1928, Serial No. 326,831, and in Norway Dec. 23, 1927. 8 Claims. (Cl. 92—39.)

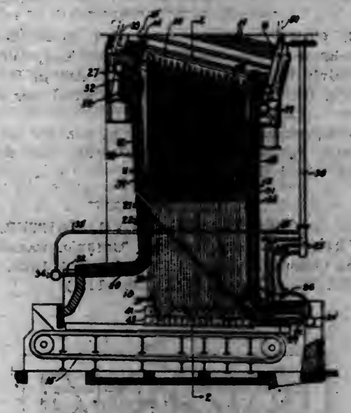
1. In the production of pulp the process which consists in submitting pulp to the action of a suction drum adapted to cause the pulp to settle on parts of its exterior surface by way of a suction action and to be loosened or removed from the same on other parts of its surface, bringing pulp

so removed and suitably diluted to another part of the surface adapted to cause such pulp to settle and form a web and then removing this web, carrying it to a press for re-



moving excessive moisture and thereupon together with a second web to a press for uniting them to a uniform, thick web.

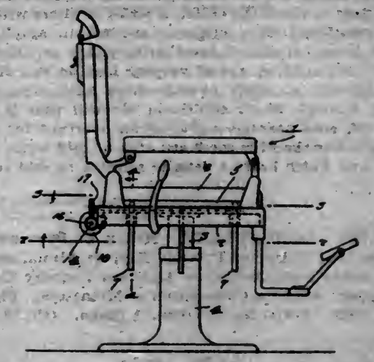
1,756,755. FURNACE. HOWARD J. KERR, Westfield, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Filed Sept. 24, 1926. Serial No. 137,409. 4 Claims. (Cl. 122—235.)



1. A furnace chamber having a fuel feeding device in its lower part, a wall of said chamber having parallel, substantially vertical wall cooling tubes extending along the wall and spaced relatively widely apart, upper and lower headers connected respectively to the upper and lower ends of said tubes, a row of slag screen tubes extending across the furnace chamber with their upper ends extending along said wall between said wall cooling tubes, and connections to supply a cooling fluid to said slag screen tubes and said wall cooling tubes.

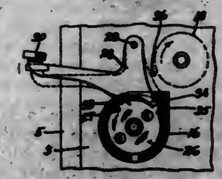
1,756,756. BARBER'S CHAIR. IRA S. MITCHELL, Kansas City, Mo. Filed Nov. 14, 1928. Serial No. 319,807. 1 Claim. (Cl. 155—25.)

In a barber's chair of the character described provided with a bottom, an independent seat having recesses in its lower side, a pair of rack bars rigidly attached at their upper ends to the bottom of the seat adjacent the recesses therein, and extending through the bottom of the chair, guide sleeves arranged on the bottom for the depending rack bars, said guide sleeves and the chair bottom having communicating openings, an elongated shaft extending across the bottom of the chair at right angles to the rack bars, cog wheels secured on said shaft for rotation therewith in the recesses in the seat and the communicating openings in the sleeves and the chair bottom and having meshing engagement with the teeth of the respective rack bars for raising and lowering the seat, one end of the chair projecting beyond the rear end of the bottom of the



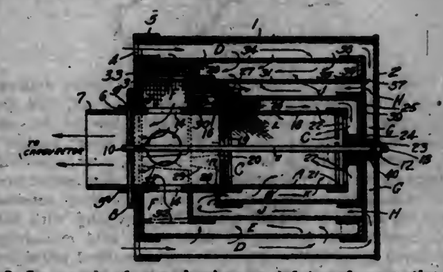
chair, and means mounted on the chair and associated with the shaft for rotating the same in a manner to raise the seat.

1,756,757. TOWEL CABINET. GOTTFRID OLSON, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Filed Dec. 19, 1925. Serial No. 76,528. 6 Claims. (Cl. 312—38.)



1. A towel cabinet comprising an upper compartment for the soiled toweling, and a lower compartment for the clean toweling, a door which when open opens both compartments, there being a partition between the compartments and a space between the partition and door when closed, a friction roll in the upper compartment over which the clean towel extends between the end of the partition and the closed door, both as the clean toweling is drawn upwardly over the friction roll and downwardly in its course through the bottom of the cabinet, portions of the toweling being adapted to be held in contact with each other as the towel web ascends and descends, a soiled towel roller in the upper compartment, and a feed roll therefor geared to said friction roll, and a friction block in the rear of the cabinet over which the soiled towel is adapted to pass and a gate normally resting thereon to straighten the toweling before reaching the soiled towel roll.

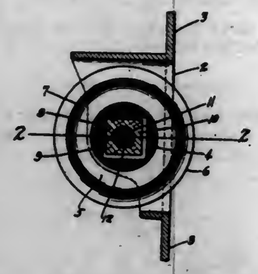
1,756,758. AIR CLEANER. FREDERICK STRATTNER OREM, Baltimore, Md. Filed Nov. 9, 1927. Serial No. 232,063. 12 Claims. (Cl. 183—73.)



6. In an air cleaner having an inlet and an outlet, a tubular filter through the wall of which all required air

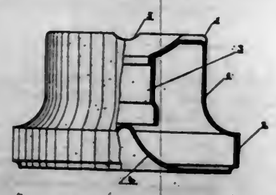
will normally pass to the outlet, said cleaner having a series of apertures between the filter and said outlet through which the air which passes through the filter wall must pass to reach the outlet, a series of filters within said first mentioned filter disposed one within another, said filters being capable of functioning either as filters or as baffles, in that they are of varying lengths and diameters and provide an open passage from said inlet to said outlet through which additional air will pass if and as required, said passage including an aperture the area of which is less than the combined area of said series of apertures and which bears a definite relation to said combined area.

1,756,759. SASH PULLEY. HARRY F. PETERSON, Baytown, and CLARENCE P. BIRD, Bayport, Minn., assignors, by mesne assignments, to Anderson Foundry Company, Bayport, Minn., a Corporation of Minnesota. Filed Feb. 29, 1928. Serial No. 258,080. 1 Claim. (Cl. 16—21.5.)



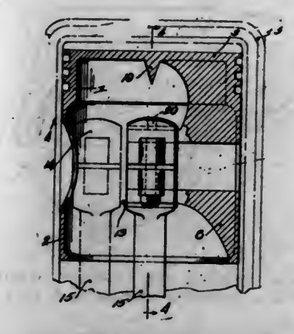
A sash pulley comprising a housing, a sheave having a hub fitting within said housing and provided with an orifice, a bushing of fibrous material fitting within said orifice and having a bore therethrough, a member mounted in said housing and passing through the bore of said bushing and whereon said bushing and sheave are adapted to turn freely, the inner wall of said hub around said orifice having a groove or recess formed therein intermediate to the ends of the orifice and extending through a substantial portion of the inner surface of said hub, said groove being adapted to allow sufficient outward expansion of said bushing to insure continual freedom of revolution of said sheave and bushing on said member when said bushing is exposed to moisture.

1,756,760. ASH TRAY OR SMOKER'S STAND. OTTO REICH, Vienna, Austria. Filed June 3, 1926, Serial No. 113,489, and in Austria June 9, 1925. 1 Claim. (Cl. 131—51.)



In an ash tray, a bowl, an upward projection approximately in the center of the bottom of said bowl, said projection flaring downwardly and outwardly toward the sides of said bowl, a cover for said bowl, said cover having a hole approximately in the center thereof, a substantially cylindrical tube attached to said cover and articulated with said hole, said cylindrical tube extending substantially vertically downward into close proximity with said projection in the bottom of said bowl, said cylindrical tube being of such dimensions that a cylindrical projection of said tube strikes the downwardly flaring sides of said projection in the bottom of said bowl.

1,756,761. PISTON AND CONNECTING ROD. ALLAN E. REID, Boston, Mass., assignor to Reid Piston Company, Brookline, Mass., a Corporation of Massachusetts. Filed Feb. 26, 1929. Serial No. 342,917. 9 Claims. (Cl. 74—108.)

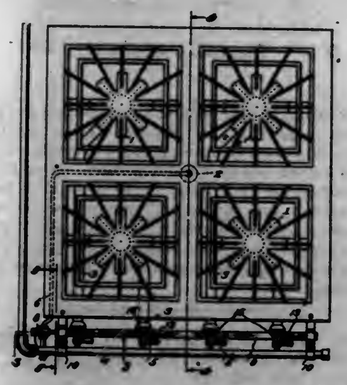


1. The combination of a piston with a connecting rod, the connecting rod having a journal opening whose axis is transverse to that of the piston, and a pivot member permanently united to the piston and adapted to fit within the opening in the connecting rod.

1,756,762. COMPOSITION. CHARLES T. RILEY, Rosiclare, Ill., assignor of one-fourth to J. Coy Lay, one-fourth to E. Calvin Clark, and one-fourth to Arthur H. Cronk, Rosiclare, Ill. Filed Aug. 3, 1928. Serial No. 297,371. 2 Claims. (Cl. 106—35.)

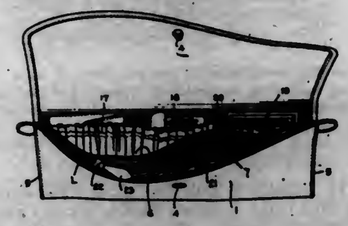
1. A composition consisting of a mixture of finely ground salt, cement, fire clay, calcspar, and fluorspar thoroughly mixed together.

1,756,763. AUTOMATIC GAS-STOVE LIGHTER. GUISEPPE RUGGIERO, Port Colborne, Ontario, Canada, and JOHN DE CESARE, Roseto, Pa. Filed Jan. 4, 1929. Serial No. 330,342. 2 Claims. (Cl. 158—115.)



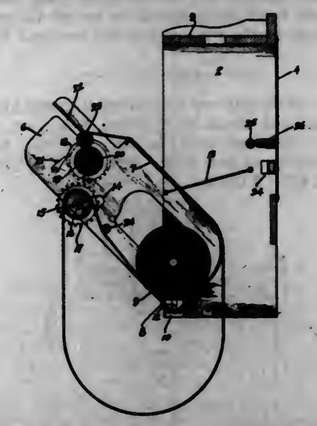
2. In combination with a gas stove provided with a pilot burner having a pushbutton valve and a spring for holding the valve closed, a bar slidably arranged at the front of the stove and having vertically arranged openings therein, a clip pivoted in each opening, a spring engaging each clip and holding the same projected above the top of the bar, each main burner of the stove having a cock, a cam connected with each cock, said cams engaging the clips on the opening movement of the cocks for moving the bar in one direction, the springs permitting the clips to lower when the cocks are moved to closed position and the cams pass over the clips and a part on the bar engaging the pushbutton of the valve whereby the valve is opened when the bar is moved by the opening movement of a main cock, the spring of the pushbutton acting to hold the parts in normal position.

1,756,764. HAND BAG. LOUIS ALBERT SAMSTAG, New York, N. Y., assignor to Samstag & Hilder Bros., Inc., New York, N. Y., a Corporation of New York. Filed May 18, 1927. Serial No. 192,210. 1 Claim. (Cl. 150—28.)



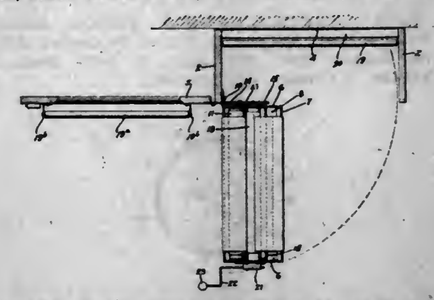
A hand bag having parallel front and back walls, the back wall having an extension forming a closure flap adapted to overlie the upper portion of the front wall and to be connected therewith when in closed position, an intermediate partition extending longitudinally of the bag between the front and back walls and forming a compartment in conjunction with the front wall and a locking device associated with the top edges of the front wall and the partition forming the compartment and located below the top edges of the front wall and the partition, said locking device being adapted to be manipulated to seal the compartment throughout its length.

1,756,765. TOWEL CABINET. FRANK G. STEINER, Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 12, 1926. Serial No. 94,184. 2 Claims. (Cl. 312—38.)



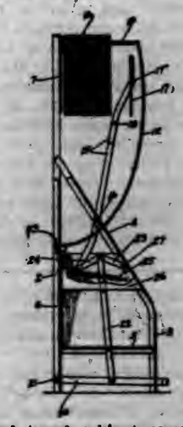
1. A towel cabinet comprising relatively movable outer and inner sections having substantially open fronts said inner section having inclined guide slots in said sides, a closure member for the rear of the inner section, said inner section being adapted to receive a supply of clean towels in its lower portion, a feed roll mounted in said inclined slots in the inner section, a take up roll mounted adjacent to and normally in gear with the feed roll, the relative movement of said inner and outer sections changing said inclined slot to a practically horizontal position adapting said feed roll to be conveniently ungeared from said take up roll and separated therefrom to allow the stretching of a clean web thereover and when the inner section is moved outwardly the loose end of the web may be conveniently carried up between the inner section and the rear wall of the outer section to said take up roll.

1,756,766. TOWEL CABINET. FRANK G. STEINER, Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 31, 1926. Serial No. 98,771. 1 Claim. (Cl. 312—38.)



A towel cabinet comprising an outer section with side walls and an opening in its front and bottom portions, a horizontally swinging door hinged to one side of the outer section having a pressure roller thereon and a horizontally swinging inner section hinged to the same said wall of the outer section said inner section being adapted to receive a clean towel supply, delivery and take up feed rolls mounted in the upper portion of said inner section and having a driving connection between them the construction being such that the web of clean towel may be stretched from the clean towel supply in the inner section up over said delivery roll and from thence be loopel downwardly through the opening in the bottom of the outer section, thence carried upwardly in the rear of said rolls, a take up roll whereon the loose end of the towel roll may be wound for contact with said take up feed roll and adapted to be revolved thereby, said inner section being adapted to swing outwardly on its hinges to a position at substantially right angles to said outer section thereby exposing both the front and rear of said inner section for convenience in stretching the towel web to said delivery feed roll and from thence to loop the towel below the inner section, thence upwardly to a take up roll.

1,756,767. INDIVIDUAL-TOWEL CABINET. FRANK G. STEINER, Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed July 2, 1928. Serial No. 289,827. 7 Claims. (Cl. 312—38.)



1. An individual towel cabinet comprising a frame, a horizontal support in the upper portion of said frame

whereon a number of individual towels are suspended, a follower plate for engaging and pressing the towels backwardly in said frame, a spring connected with and normally urging said follower against the towels, toggle links operatively connected with said plate, and means for operating said links to move said plate outwardly and relieve its pressure on the towels.

1,756,768. PISTON. LESLIE J. THOMAS, Arlington Heights, Mass., assignor to Vera C. Batchelder, Arlington Heights, Mass. Filed Sept. 23, 1927. Serial No. 221,498. 4 Claims. (Cl. 74—108.)



1. A piston comprising a solid aluminum head, a cylindrical aluminum skirt integral with the head, a hard metal ring embedded concentrically in the cylindrical skirt near its free end with the outer peripheral face of the hard metal ring flush with, or outwardly of, the outer peripheral face of the skirt, the said skirt with the embedded ring being divided into a plurality of segments, and means carried by the segments near the ends opposite the head for adjusting said ends radially, the said segments springing adjacent the head upon radial movement of the ends opposite the head.

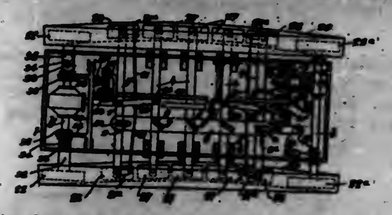
1,756,769. WRIST-WATCH BRACELET. CHARLES R. TOST, Centerdale, R. I., assignor to The Hadley Company, Providence, R. I., a Corporation of Rhode Island. Filed Nov. 2, 1928. Serial No. 316,667. 4 Claims. (Cl. 24—71.)



1. An extensible connector for wrist watch bracelets and the like comprising an upper plate adapted for attachment to a bracelet end, a curved resilient connector plate pivoted at one of its end portions to said upper plate intermediate its ends, and a similarly curved bottom plate pivoted at one of its end portions to the opposite end portion of the connector plate and having its free end adapted for attachment to another bracelet end, hooks at the opposite sides of the upper plate between the forward end thereof and said connector plate pivot, and cooperating projections on the bottom plate to interengage with said hooks when the plates are pressed into overlapping juxtaposition, the resilient connector plate being flattened and lengthened during the application of closing pressure to permit said hooks to snap over said projections.

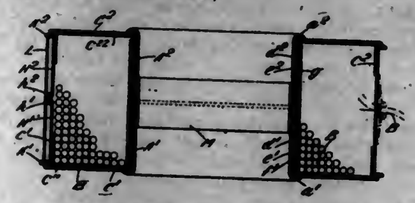
1,756,770. ENDLESS TRACK VEHICLE. RICHARD R. W. VENZLAFF and OTTO F. BUCK, Berlin, Germany. Filed Feb. 10, 1928, Serial No. 253,456, and in Germany Mar. 1, 1927. 5 Claims. (Cl. 180—9.1.)

1. A track-laying vehicle comprising a pair of flexible tracks upon which the vehicle travels, means for driving said tracks, a plurality of cross-beams, some of said cross-beams being laterally displaceable, trucks carried by the respective end portions of the respective cross-beams, supporting wheels carried by said trucks, and vertically disposed pins rigid with the laterally displaceable cross-bars, in combination with a slide guided between said frame and movable cross-bars and formed with slots disposed at an



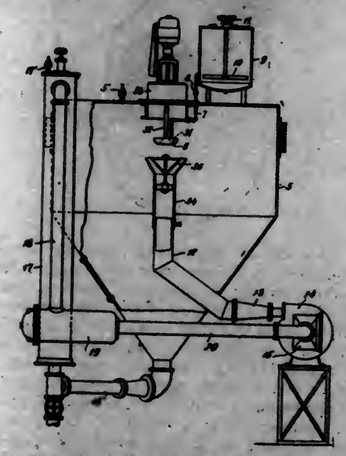
angle to the longitudinal central line of said slide and receiving said pins respectively, means for preventing lateral displacement of said slide, and means for at will moving said slide endwise in either direction.

1,756,771. CARTON FOR PACKING REELS OF WIRE AND THE LIKE. ALFRED ERNEST WATSON and FREDERICK PLUTTE, London, England. Filed Oct. 6, 1927, Serial No. 224,406, and in Great Britain Oct. 27, 1926. 5 Claims. (Cl. 242—188.)



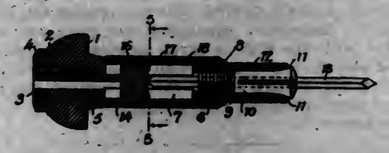
1. A carton in which a coil of insulated or uninsulated wire, string or the like is enclosed and efficiently protected during transit and use, comprising end discs and circumferential rings, each of said rings having one end connected to one of said end discs and its other end abutting against the opposed end of the other ring, the abutting ends of said rings being flexible to permit the withdrawal therebetween of the wire or the like enclosed within said rings.

1,756,772. METHOD OF COATING MATERIALS. LOUIS WEISBERG and ROGER B. STEVENS, New York, N. Y., assignors to Alchemic Gold Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 25, 1927. Serial No. 186,479. 5 Claims. (Cl. 91—68.)



1. The process of coating finely divided materials, which comprises subjecting a suspension of the material in a volatile chemically non-reactive solvent solution of the coating composition subdivided by centrifugal force to a heated gas and separating the coated material from the gas and solvent vapors.

1,756,773. HAND TOOL. ALFRED WENDT, Fresno, Calif. Filed Sept. 7, 1926. Serial No. 133,995. 1 Claim. (Cl. 279—50.)



A device of the character described, comprising a tubular shank having a pair of oppositely disposed slots and interior [illegible] in one end, a handle secured to said shank at its other end, a follower mounted in said tubular shank and having wings fitting in said slots of the shank and provided with threads upon their periphery, a sleeve encircling the entire length of said tubular shank and having interior threads to engage the threads on the periphery of said wings of the follower, a tool having its inner end in engagement with said follower, a chuck consisting of a pair of jaws flared at their outer ends and through which jaws said tool passes and is adapted to be clamped, said chuck having a threaded stem engaging said interior threads of the tubular shank, and a sleeve surrounding said chuck and shaped at one end to bear against the flared portion of the jaws of said shuck and having an interiorly threaded portion to engage a portion of the threads on the stem of said chuck to effect the opening and closing of the jaws of said chuck.

1,756,774. ELECTRIC LIGHTING FIXTURE. EDWIN BIRD WILSON, Forest Hills, N. Y., assignor to Design Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1927. Serial No. 176,442. 5 Claims. (Cl. 240—52.)



4. In a lighting fixture, a first set of profile members having slots therein and adapted to interlock with one another solely by means of said slots, one member of said first set of profile members having an angular portion cooperating and interlocking with an auxiliary profile member to form a second set of profile members, said auxiliary profile member intersecting and interlocking with another member of said first set of profile members, to hold the component parts of the entire fixture in fixed angular relation to one another.

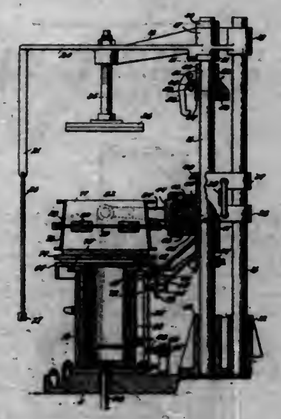
1,756,775. EXTENSIBLE FASTENING. JOHN FREDERICK FRANKLAND WINNING, Hanwell, England, assignor to John Frederick Frankland Winning, Francis Percy Torr, and Alfred Hilton, trading as The Bag Frame and Components Company, Hoxton, England. Filed July 11, 1927, Serial No. 204,950, and in Great Britain May 6, 1927. 3 Claims. (Cl. 292—281.)

1. An extensible fastening for a pair of relatively movable parts, comprising a pair of main telescoping members for attachment, respectively, to said parts, one of said main members having rack teeth, a pawl pivoted to the other main member, spring means normally urging said pawl into engagement with said rack to prevent relative movement of said main members in one direction and yieldable to permit said pawl to ride over said rack in the opposite direction; and a controlling member for said pawl slidable lengthwise of one of said main members and provided with parts engageable, respectively,



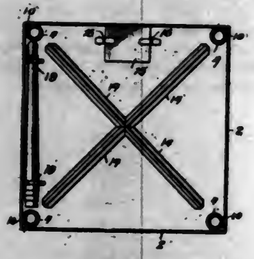
with one side of said pawl to hold said pawl in engagement with said rack when said controlling member is moved lengthwise of its associated telescoping member in one direction, and with the other side of said pawl to lift said pawl out of engagement with said rack when said controlling member is moved lengthwise of its associated telescoping member in the opposite direction, said pawl being free to engage said rack when said controlling member is in its intermediate position.

1,756,776. MOLDING MACHINE. JOHN RICHARD WOOD, Hatboro, Pa., assignor to New Process Multi-Castings Company, a Corporation of New Jersey. Filed June 2, 1926. Serial No. 113,111. 10 Claims. (Cl. 22—45.)



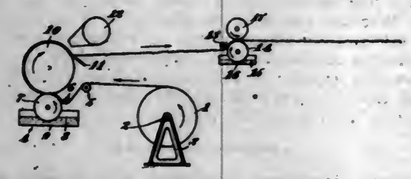
10. A molding machine including, in combination, a sectional flask rotatably associated with said machine and comprising a cope member and a drag member, a pattern plate mounted for pivotal movement on said cope member, means for jolting cope molding sand in said cope downwardly against said pattern plate and simultaneously jolting said pattern downwardly against drag molding sand in said drag.

1,756,777. CARD TABLE. FREDERIC EMERSON WRIGHT, New York, N. Y. Filed Oct. 21, 1927. Serial No. 227,726. 2 Claims. (Cl. 45—11.)



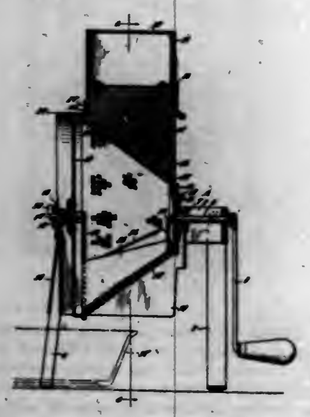
1. A table, including a top having openings therein, sleeves fixed to the top and registering with said openings, and removable hollow legs coupled to said sleeves, said hollow legs of different diameters whereby said legs can be telescoped one within the other when detached from the table.

1,756,778. METHOD FOR MAKING COLORED CREPE PAPER WITH INSOLUBLE DYES AND RESULTING PRODUCT. GARDNER R. ALDEN, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Nov. 12, 1926. Serial No. 147,959. 26 Claims. (Cl. 92—64.)



1. A method for treating colored crepe paper, which comprises treating a sheet of the same with a concentrated solution of a solid reagent, inert with respect to the paper, and containing a fixing reagent therein.

1,756,779. VEGETABLE GRATER. JOHN A. ANDRUSIS, Brooklyn, N. Y. Filed Feb. 7, 1928. Serial No. 252,599. 4 Claims. (Cl. 146—92.)



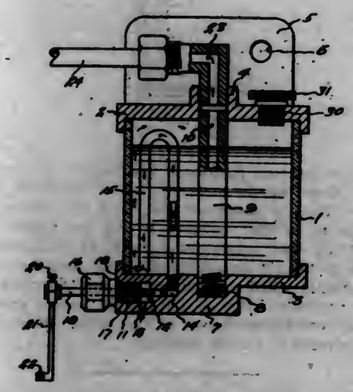
1. A device of the class described comprising a supporting frame comprising a rectangular frame, front and rear yoke members pivotally connected with the rectangular frame so that they can be folded, a cross piece in the rectangular frame adjacent the rear thereof, a shaft journaled in the rear of the rectangular frame and in said cross piece, a handle on the outer end of the shaft, a disk on the front end thereof, the front part of the rectangular frame having a bearing notch therein, a cutting member of frusto-conical shape having its small end closed and its large end open, a cross piece connected with the front end, a pintle carried thereby engaging the bearing, means for detachably connecting the small end of the member with the disk, a cover member detachably connected with the rectangular frame, a hopper carried thereby for directing articles placed therein against the frusto-conical member and a presser member removably arranged in the hopper.

1,756,780. METATARSAL-PAD LOCATOR. JOSEPH L. BARTH, Bismarck, N. Dak. Filed July 26, 1928. Serial No. 295,386. 7 Claims. (Cl. 282—1.)



1. A device of the character set forth including a plate upon which the foot is adapted to be placed and embodying sections adjustable relatively to provide an opening therebetween in registration with the arch of the foot, a flexible plate below the first plate, a receptacle in which the plates are mounted, means positioning the second plate above the base of the receptacle, means for bowing the flexible plate upwardly through said opening, and an inking member normally disposed in the receptacle below said plate and means mounting said inking member for movement to a position above and across said plates.

1,756,781. AUXILIARY FEEDING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JEAN B. BERGOUGNOUX, Los Angeles, Calif. Filed July 15, 1929. Serial No. 378,506. 3 Claims. (Cl. 123—198.)



1. An auxiliary feeding device for internal combustion engines comprising a cylindrical fluid receiving reservoir, upper and lower cap plates fitted thereon, a hollow interiorly threaded boss centrally formed on said upper cap plate, a threaded recess in said lower cap plate, a tubular member interconnecting said cap plates and fitted within said boss and said recess and formed with a transverse

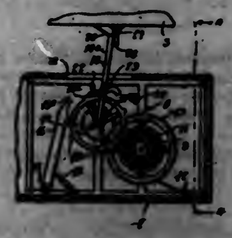
port adjacent its upper end, a chamber open to the atmosphere formed in said lower cap plate, an air passage connecting said chamber with the interior of said reservoir, said air passage forming means to eject air at the bottom of the reservoir so that the same may rise through the liquid, and means to vary the amount of air entering said reservoir.

1,756,782. WIRE REEL. JAMES EDGAR BURNETT, Beardstown, Ill. Filed Mar. 30, 1927. Serial No. 179,549. 1 Claim. (Cl. 242—116.)



A device of the class described comprising a base, an upright secured thereto, a second upright hingedly connected with the base, a top piece hingedly connected with the upper end of one upright, means for detachably connecting the top piece with the upper end of the other upright, said uprights having holes therein, a reel having its pintles engaging the holes, each pintle having a square inner part, which forms a shoulder for bearing against the inner face of an upright, a stationary flange at one end of the reel, a removable flange at the other end thereof, said latter mentioned flange having a square hole therein to receive the square part of a pintle and a pin passing through the square part for holding the flange in place.

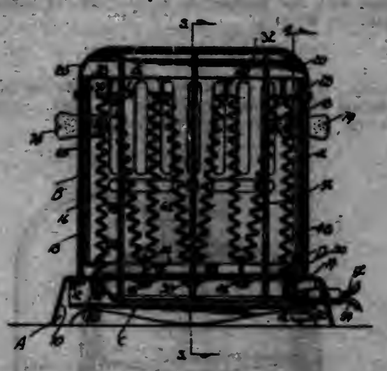
1,756,783. SPRING MOTOR. ARTHUR H. COLLINS, Jacksonville, Fla., assignor of one-half to Leonard B. MacCullough, Jacksonville, Fla. Filed Jan. 8, 1927. Serial No. 159,844. 4 Claims. (Cl. 185—38.)



1. In combination, a spring motor including a ratchet wheel, a lever adapted to be actuated in one direction by the motor and in the opposite direction by engagement with a swingingly mounted member, a detent engaging the ratchet wheel, a pawl carried by the lever and adapted to retract the detent and engage the ratchet wheel during the movement of the lever in said second direction, and a trip adapted to retract the pawl during the movement of the lever in said first direction.

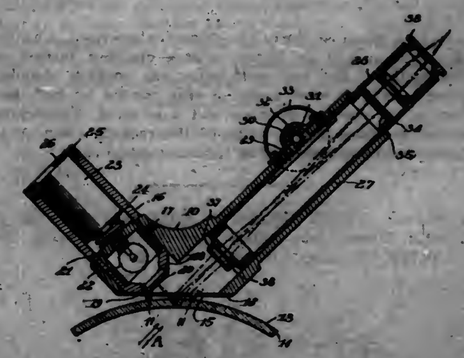
1,756,784. ELECTRIC TOASTER. ERNEST S. JOHNSON, Webster City, Iowa, assignor to Knapp-Monarch Company, Webster City, Iowa, a Corporation of Delaware. Filed Dec. 18, 1929. Serial No. 414,952. 9 Claims. (Cl. 219—19.)

6. An electric toaster comprising a support, a casing formed of a single piece of material having tongues adapted to project through slots formed in said support, a pair of side walls pivotally mounted on said casing and adapted when in vertical position to come within the outline of said casing, a single spring projected through said support for coaction with said pair of side walls to retain them



in vertical position, and an assembly retainer mounted on the underside of said support having slots therein to receive said tongues for holding said spring in position against accidental displacement, and when said tongues are bent to retain the casing, its support and said assembly retainer in assembled position.

1,756,785. OPTICAL MEASURING INSTRUMENT. GEORGE B. GALLASCH, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed May 29, 1926. Serial No. 112,527. 13 Claims. (Cl. 88—14.)



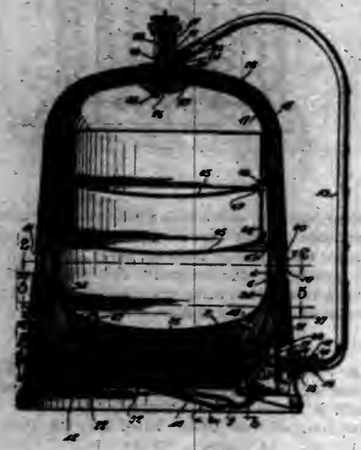
1. An instrument for measuring the distance between spaced optical surfaces of a transparent body comprising a source of light and means for projecting a beam therefrom against said optical surfaces at an inclination adapted to produce spaced reflections thereof from said optical surfaces, respectively, lens means for focusing said reflections, and a scale disposed in the path of said reflections for observation in conjunction therewith to measure the distance between said reflections as an indication of the distance between said optical surfaces.

1,756,786. CERAMIC MATERIAL AND BINDING AGENT AS WELL AS A PROCESS FOR PRODUCING SUCH MATERIAL. VICTOR MORITZ GOLDSCHMIDT, Oslo, and ROLF KNUDSEN, Borgestad, near Skien, Norway, assignors to Borgestad Fabrikker, Borgestad, near Skien, Norway. Filed Oct. 18, 1926, Serial No. 142,519, and in Norway Oct. 24, 1925. 4 Claims. (Cl. 106—11.)

1. Process of producing a building product including artificially produced magnesium orthosilicate comprising

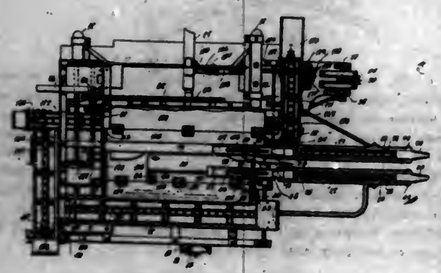
the steps of producing a mixture of substances comprising talcum and magnesium oxide and subjecting the mixture to burning so adjusted as to temperature and duration as to result in the entire quantity of talcum and of magnesium oxide in the mixture entering into chemical reaction with one another so as to form the magnesium orthosilicate Mg_2SiO_4.

1,756,787. STEAM COOKER. CHARLES L. GOUGHNOUR, Jefferson City, Tenn. Filed May 26, 1927. Serial No. 194,372. 9 Claims. (Cl. 53—2.)



1. In a steam cooker of the character described, a heater base section and an upper cooking chamber formed of two sections, the two sections of the cooking chamber being formed of sheet metal, a ring carried by each section of the cooking chamber and a wedging interlocking connection between the rings of the cooking chamber to cause binding engagement of the sheet metal joint.

1,756,788. GRAIN-HEADING MACHINE. EDWARD J. HALE, Minco, Okla. Filed June 27, 1928. Serial No. 288,772. 6 Claims. (Cl. 130—30.)

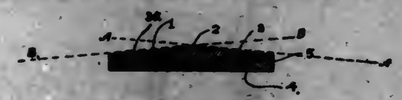


2. A machine of the class described having grain heading mechanism, means to grip the grain, said heading mechanism being designed to move the grain relative to the first mentioned means so that the latter will partially head the grain, a hood over said heading mechanism, conveyer means, and said hood serving to direct the grain headed by the first mentioned means into said conveyer.

1,756,789. METHOD OF MAKING CEMENTITIOUS MATERIAL OF CELLULAR TEXTURE. GEORGE BOOLE HINTON, Mexico City, Mexico. Filed Oct. 24, 1927. Serial No. 228,479. 1 Claim. (Cl. 106—18.)

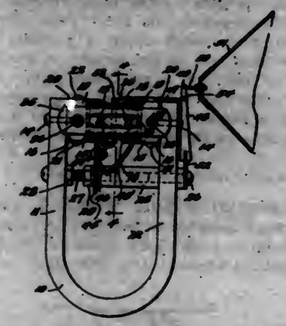
The method of making a cellular fabric which comprises aerating and agitating a mixture of cement pulp and a frothing flotation reagent to form a froth of cement coated bubbles of small and substantially uniform size, incorporating in the froth bubbles of larger size, whereby the larger bubbles will be enveloped by the smaller bubbles.

1,756,790. DRIVING BELT FOR CONE PULLEYS. STEPHEN M. KELLOGG, Knoxville, Tenn. Filed Aug. 23, 1926. Serial No. 130,900. 5 Claims. (Cl. 74—63.)



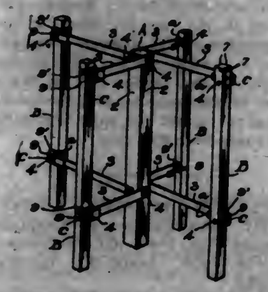
1. In a belt and pulley structure, the combination of a pair of cone pulleys and a belt applied to said pulleys, said belt having on its working or inner side and along its entire length two slanting longitudinal faces meeting approximately midway between the edges of the belt and one of said faces bearing on one pulley and the other face bearing on the other pulley.

1,756,791. LOUD-SPEAKER UNIT. MATTHEW K. KUCHINSKY, Newark, N. J. Filed July 2, 1928. Serial No. 289,984. 10 Claims. (Cl. 179—119.)



1. In a loud speaker, in combination, a magnet having substantially parallel arms, a pair of cooperating pole pieces associated with said arms, a second pair of cooperating pole pieces associated with said arms, one pair of pole pieces being in a region of greater flux from said magnet than the other, and means to adjust the flux distribution to equalize it through the two pairs of pole pieces.

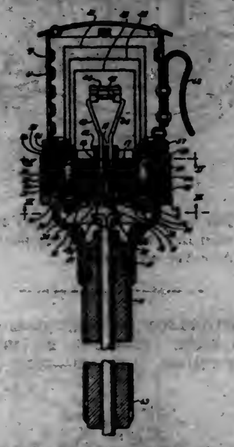
1,756,792. FOLDING SUPPORT. CHARLES R. LETTS, Johnson City, N. Y. Filed May 10, 1926. Serial No. 107,884. 3 Claims. (Cl. 248—41.)



1. A folding support comprising a central vertical standard rectangular in cross section, upper and lower outwardly

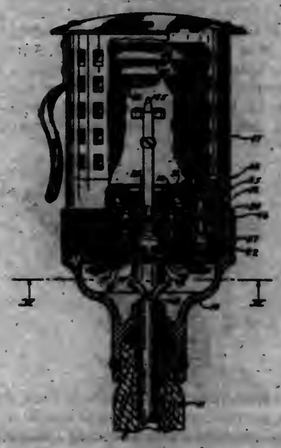
extending metal arms pivotally mounted on each face of the rectangular standard, the arms secured to each face being disposed in vertical alinement, vertical legs pivotally secured to the outer ends of the metal arms, and a trough shaped rest mounted on one face of each leg in alinement with a corresponding surface of the standard, the outer end of each arm resting in its respective trough shaped rest.

1,756,793. HEAD FOR GAS DETECTORS. JOHN K. MABBS, Bayside, and HERMANN C. STELLING, Orangeburg, N. Y., assignors to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Aug. 1, 1928. Serial No. 296,857. 14 Claims. (Cl. 73—51.)



1. In a head for gas detectors of the class described, the combination of a supporting member, a filament mounted on said supporting member, gauze jackets surrounding said filament, means for holding said jackets against said supporting member, conductors for supplying current to said filament, said conductors including a resilient portion normally in a position to open the circuit, and means actuated by said jackets when held against said supporting member to force the resilient portion of said conductor to a position to close said circuit.

1,756,794. HEAD FOR GAS DETECTORS. JOHN K. MABBS, Bayside, N. Y., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed Aug. 13, 1928. Serial No. 299,405. 8 Claims. (Cl. 73—51.)



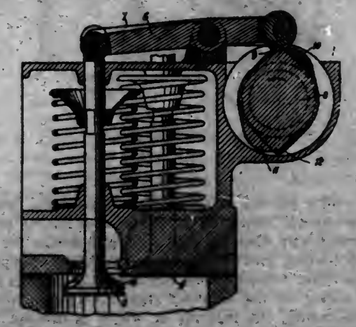
1. In a gas detector head the combination of a base, a plurality of gauze jackets above said base in coaxial relation, a filament within said jackets, means including a switch on said base for supplying current to said filament and means carried by one of the outer jackets for operating the switch.

1,756,795. FLUID-EXPANDED PISTON FOR OIL PUMPS. JOHN F. MITCHELL, Cotton Valley, La., assignor of forty-five per cent to Lewis G. Williams, Cotton Valley, La. Filed June 11, 1927. Serial No. 198,160. 1 Claim. (Cl. 103—179.)



In a device of the class described, a well casing, a piston operating within said casing and having an upper open and unobstructed end portion provided with thin expansible walls of uniform thickness, the piston including a tubular extension having a lower open end acting as a casing cleaning element, the extension having a reduced portion providing an annular chamber at the end of the tubular piston, the extension being provided with ports extending radially thereof, to provide for the passage of material from the annular chamber to the inner portion of the extension.

1,756,796. EXHAUST VALVE. WARREN NOBLE, Detroit, Mich. Filed May 6, 1927. Serial No. 189,228. 10 Claims. (Cl. 123—90.)

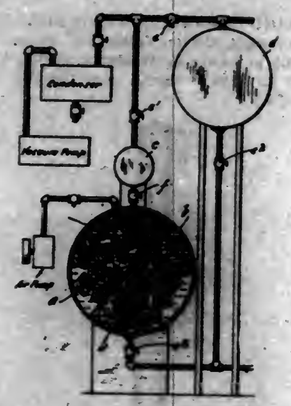


1. In combination with an internal combustion engine cylinder, two exhaust valves, and timing means for each of said exhaust valves, said timing means operating simultaneously and to close one of said valves immediately after a substantial reduction in pressure within the cylinders is attained.

1,756,797. METHOD FOR RECOVERY OF SURPLUS PRESERVATIVES IN TREATMENT OF TIMBER. RALPH H. RAWSON, Portland, Oreg. Filed June 8, 1926. Serial No. 115,417. 2 Claims. (Cl. 99—12.)

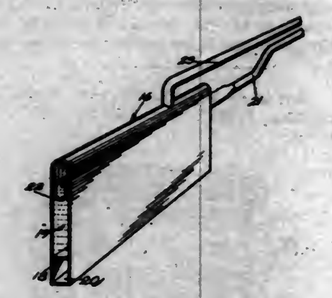
1. In the preservative treatment of timber, the method of preventing subsequent bleeding which consists in apply-

ing a partial vacuum and simultaneously heating the timber through the medium of a liquid, with the timber submerged, to a temperature maintained in excess of that of



boiling water under the given vacuum, whereby rapidly to vaporize and expand the moisture, imprisoned in the pores of the timber, to such volume as to crowd out substantially all preservative not retained by the walls of the pores.

1,756,798. HEAT-ABSORBING MEANS FOR SHEET-GLASS APPARATUS. JOSEPH A. RESCH, Toledo, Ohio, assignor to Libbey-Owens Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 28, 1927. Serial No. 178,889. 5 Claims. (Cl. 49—17.)

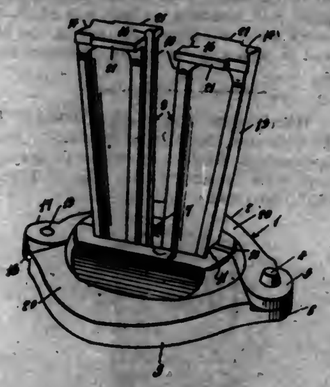


1. A cooler for use in sheet glass apparatus, comprising a hollow casing consisting of two compartments separated by a horizontally disposed partition, and means for passing a liquid cooling medium through the upper compartment only, the lower compartment containing a gaseous medium.

3. A cooler for use in sheet glass apparatus, comprising a hollow casing, the interior of which is divided horizontally into an upper large compartment and a lower somewhat smaller air compartment, and means for passing a cooling medium through the upper larger compartment only.

1,756,799. CASING COVER AND TOOL HOLDER FOR WELLS. FREDERICK W. SADLER, Oklahoma City, Okla. assignor of one-fourth to Barbara E. Turney, Oklahoma City, Okla. Filed May 26, 1928. Serial No. 280,791. 3 Claims. (Cl. 24—263.)

1. A tool for wells, comprising a casing cover formed in separable sections, said sections having complementary recesses in their abutting faces forming an opening in the cover, the end walls of said recesses on opposite sides of the joints between the sections being provided with inwardly extending portions, and slips engaging in said opening and



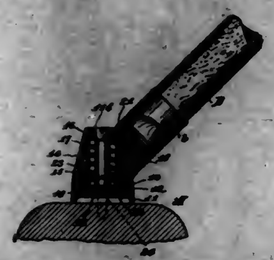
straddling the joints between the sections and having faces conforming to said inwardly extending portions to prevent separation of the cover sections.

1,756,800. DISTORTION MOTOR. MORRIS A. SCHWARTZ, Los Angeles, Calif. Filed Feb. 23, 1928. Serial No. 256,314. 10 Claims. (Cl. 171—125.)



1. A distortion motor having a plurality of energized field poles, a rotor having a shaft and a plurality of conducting coils arranged concentric to the shaft, the coils being insulated one from the other, a common conductor connecting each of the coils to the shaft, and means to energize each coil in succession whereby the coils may be successively heated to distort the magnetic lines of force.

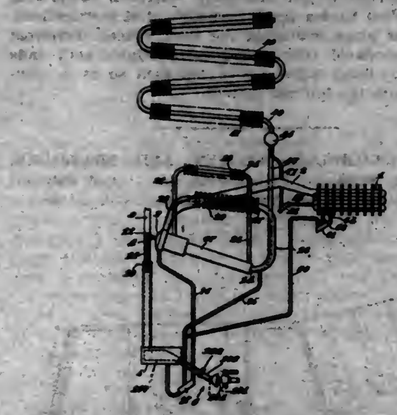
1,756,801. HANDLE-ADJUSTING MEANS. CHARLES S. TRIPPEDA, New York, and ANTHONY J. DICHIARO, Brooklyn, N. Y., assignors, by direct and mesne assignments, of one-fourth to Eugene Scavone, New York, N. Y., and one-fourth to Benjamin Fichtelberg, New York, N. Y. Filed Feb. 23, 1928. Serial No. 256,811. 1 Claim. (Cl. 306—3.)



In a device for adjustably securing a handle to a head, including a base element having means whereby to secure the same to the head and having a threaded hole therein,

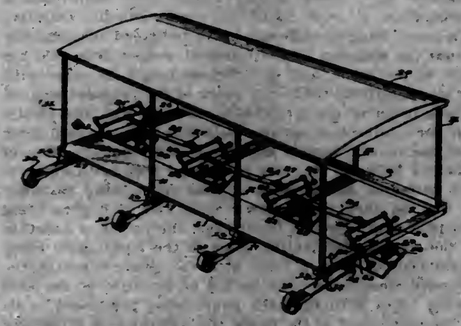
as well as a countersunk depression and a clutch surface at the top outside of said depression and concentric with said hole, a handle element presenting at its under side a mating clutch surface and having a pocket therein, an internal ledge on the handle element in said pocket, a headed fastener having a threaded reduced zone adapted to engage the threaded hole in the base element and having a shoulder at the base of said threaded zone adapted to bear against the bottom of said countersunk depression, and a spring in said pocket and coiled about said headed fastener, said spring exerting pressure at its upper end against the under side of the head of the fastener and exerting pressure at its lower portion against said ledge.

1,756,802. FLUID PUMPING. LYMAN F. WHITNEY, Boston, Mass., assignor, by mesne assignments, to Stator Refrigeration, Inc., a Corporation of Delaware. Filed Jan. 6, 1927. Serial No. 159,842. 8 Claims. (Cl. 230—102.)



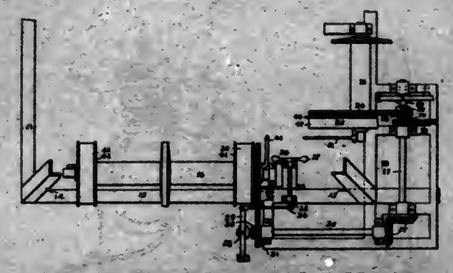
2. Apparatus of the character described comprising a fluid duct including means for pumping fluid, said means comprising two aspirator nozzles with propellent condensers adjoining the outlets of each of the same, a cooler between one of the condensers and the succeeding aspirator, and a third condenser connected to the outlet of the condenser adjoining the outlet of the second aspirator nozzle.

1,756,803. BERRY-PICKER'S VEHICLE. JACOB D. W. WILLIAMS, Tabor, N. C. Filed Apr. 13, 1928. Serial No. 269,765. 8 Claims. (Cl. 280—29.)



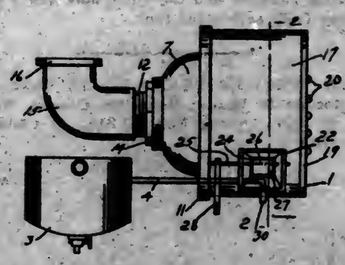
1. In combination a portable frame, to be moved over the ground, a longitudinal seat for seating a number of people, a plurality of horizontally disposed bands in advance of the seat upon which such people repose in a leaning posture, and foot rests supported from the frame.

1,756,804. DRILLING RIG. MERTON T. ARCHER, Pittsburgh, Pa., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 31, 1928. Serial No. 266,415. 2 Claims. (Cl. 254—185.)



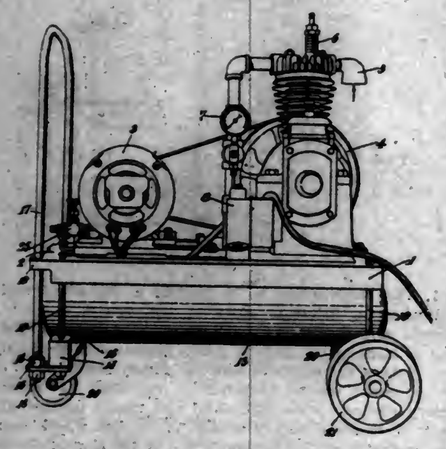
1. The combination of a derrick, a calf-wheel and a bull-wheel at adjacent sides of the derrick, a pair of shafts mounted in an approximately horizontal plane and at right angles to each other, gears mounted on adjacent ends of the shafts to transmit rotary motion from one to the other, means mounted on one shaft to transmit rotary motion to the calf-wheel and means on the other shaft to transmit rotary motion to the bull-wheel, means for imparting rotary motion to one of the shafts, clutches for making either wheel inoperative, and two clutch-operating means adjacent to each other and the adjacent ends of the two wheels.

1,756,805. ROTARY VAPORIZING CARBURETOR. WALTER J. BAKER, Chillicothe, Mo. Filed Dec. 8, 1928. Serial No. 324,721. 2 Claims. (Cl. 261—79.)



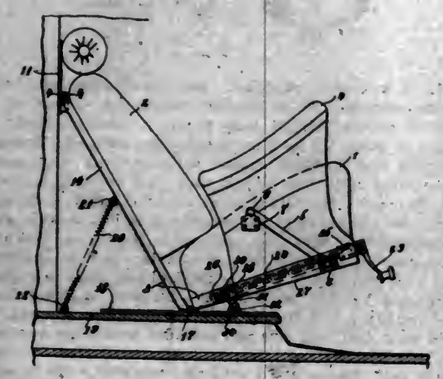
1. In a rotary vaporizer, the combination with the intake manifold of an internal combustion engine, of a central circular hollow body having circumferentially a series of elongated inlet ports extending obliquely through its wall and provided axially with an outlet pipe communicating with the hollow body and adapted to communicate with the intake manifold of the engine, an annular duct or chamber surrounding said hollow body and communicating with the inlet ports therein, a Venturi-tube communicating with said annular duct or chamber and with atmosphere, a main fuel feed pipe communicating with said Venturi-tube and with a source of liquid fuel, and auxiliary fuel feed pipe registering with the end of said main fuel feed pipe and provided within the annular duct or chamber with nozzle portions adapted to vent liquid fuel therein, and a rotatably mounted valve in said Venturi-tube inwardly of said feed pipes to regulate the admission of a mixture of air and fuel to said annular duct or chamber to be drawn therefrom by suction into the hollow body in oblique streams of high velocity to produce in the hollow body a rotary gyrating column of explosive mixture capable of vaporising liquid particles of fuel and collect the dry vapor at the axis of rotation of the rotating column of air and fuel.

1,756,806. PORTABLE AIR-COMPRESSING UNIT. HOWARD W. BEACH, Caldwell, N. J. Filed Oct. 28, 1927. Serial No. 229,311. 7 Claims. (Cl. 230—235.)



1. In a portable fluid compressing unit, the combination of a main frame member, a compressor thereon, a plurality of pressure tanks located beneath said main frame member, bolster members at each end supporting said tank members from below, and a connection between one tank and said compressor whereby that tank serves as a cooling and settling chamber, a connection between the cooling and settling chamber and the other tank and a discharge connection from said other tank.

1,756,807. VEHICLE SEAT. SAMUEL DUNCAN BLACK and ROBERT D. BLACK, Baltimore County, Md. Filed Apr. 8, 1927. Serial No. 181,919. 5 Claims. (Cl. 155—116.)



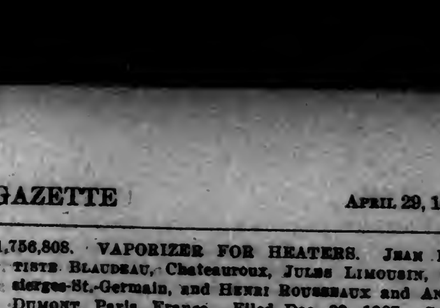
5. A seat having a swinging support for the front, a sliding support for the rear and separate means for adjusting the seat about the swinging support, changing the location and position of the seat, rocking it from upright to reclining position and the reverse.

1,756,808. VAPORIZER FOR HEATERS. JEAN BAPTISTE BLAUDEAU, Chateauroux, JULES LIMOUSIN, Sassierges-St.-Germain, and HENRI ROUSSEAUX and ANDRÉ DUMONT, Paris, France. Filed Dec. 29, 1927. Serial No. 243,454. 2 Claims. (Cl. 257—248.)



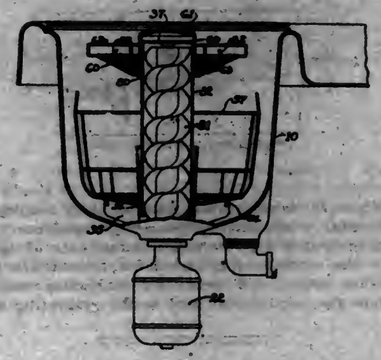
1. A vaporiser of the character described, comprising a tubular shell having deep, circumferential corrugations, and annular pipes embracing the shell, spaced therefrom and accommodated within said corrugations, both ends of each pipe being connected to the shell so as to communicate with the interior thereof.

1,756,809. COMBINED CORSET AND BRASSIÈRE. ANNIE K. BRENNAN, Philadelphia, Pa. Filed July 21, 1924. Serial No. 727,186. 2 Claims. (Cl. 2—43.)



2. In a corset and brassière, the combination with the brassière of a corset of the flexible type comprising in combination a front panel of non-stretchable material, said panel being of sufficient width to extend substantially across the abdomen of the intended wearer, from one hip bone to the other, and of sufficient length to cover with its lower portions the pelvic bones of the intended wearer, a back panel of non-stretchable material, and two elastic side gores interposed between said panels, one of said gores and one of said panels being provided along the line of juncture between the said panel and gore with cooperative fastening means, each of said gores being narrower at the top than at the lower edge and each gore being provided with a welted lower edge, the points of juncture of the welted edges of the gores to the front panel being positioned to lie at a level with the pelvic bones of the intended wearer, and the points of juncture of the said welted edges with the back panel being positioned to lie at the upper part of the nates, the resistance to stretching of the welted lower edge being greater than that of the other parts of the gores thereby producing a more forcible girdling pull along the line following said welted edges, and across the panels between these edges, than is produced by the portions of the gores above said welted edges.

1,756,810. UPPER BASKET FOR DISHWASHERS. FRANK G. BROTZ, Kohler, Wis., assignor to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Aug. 12, 1927. Serial No. 212,460. 2 Claims. (Cl. 141—9.)



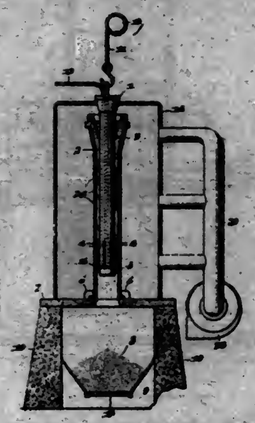
1. In combination with a dishwasher of the type having a central tower through which radial jets of water are forcibly ejected, a wire basket comprising an inner or suspension ring of smaller diameter than the end of the tower fitting on the end of the tower and supported thereby, an outer ring, radial wires connecting the two rings and extending from the inner ring outwardly and then downwardly and then upwardly and outwardly to the outer ring, and concentric rings secured to the radial wires to form an inclined basket bottom for supporting glass tumblers and the like radially around the tower in an inclined position.

1,756,811. SHAVING BRUSH. HOWARD J. BROWNSBERGER and HARRY R. MCCONNELL, Toledo, Ohio. Filed Sept. 11, 1923. Serial No. 662,048. 1 Claim. (Cl. 221—79.)



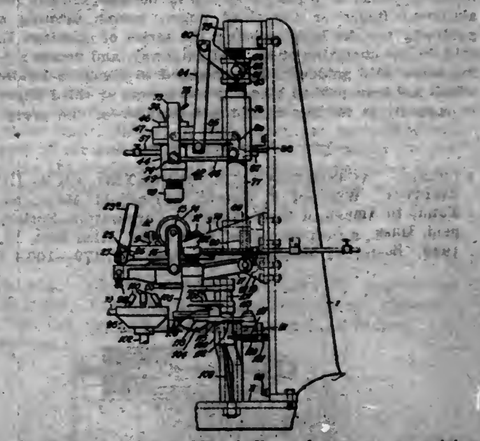
In an elongated handle for a fountain brush comprising a cylinder of single thickness having a smooth exterior surface and provided on its interior surface with screw threads, a piston having threads on its periphery engaging with said screw threads of the cylinder, a swivelled cap on the end of said cylinder, a square stem carried by said cap and slidably extending through a square hole in the center of said piston, and a dispensing nozzle on the other end of said cylinder as to which nozzle said cap is rotatable to actuate the piston along said stem.

1,756,812. METHOD AND APPARATUS FOR EXTRACTING CASTINGS FROM MOLDS. LOUIS A. CAMEROTA, Burlington, N. J., assignor to Walter Wood, Philadelphia, Pa. Filed June 5, 1928. Serial No. 282,909. 9 Claims. (Cl. 22—1.)



3. An apparatus for extracting a casting from a closed cylindrical flask lined with a mold, comprising mechanical means for moving the casting through the flask, said means carrying nozzles for directing a fluid jet into the mold.

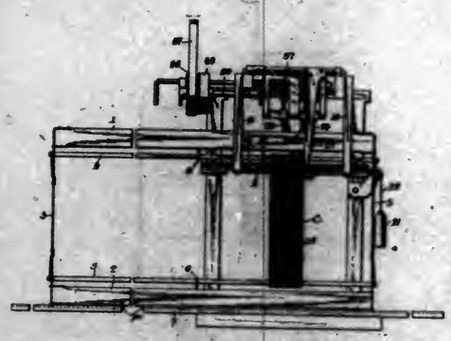
1,756,813. METHOD OF AND APPARATUS FOR MAKING HOLLOW BLOWN GLASSWARE. ROBERT W. CANFIELD, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed May 19, 1925. Serial No. 31,315. 42 Claims. (Cl. 49—9.)



3. Apparatus for making hollow glassware, comprising a parison support mounted to rotate upon a permanently vertical axis, means for rotating said support, means for reheating a parison carried by said support, and means for applying blowing pressure to said parison during the reheating operation.

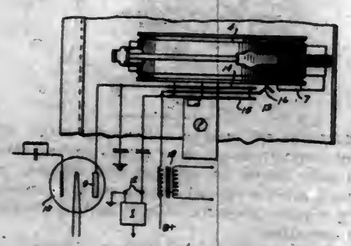
19. Apparatus for making hollow glassware, comprising a parison mold; a pressing and blowing plunger mounted to rotate on a permanently vertical axis for forming a parison in said mold, said plunger embodying a tubular member having an air passage therein, and a central member adapted to close said air passages when in pressing position; and means for elevating said central member at the conclusion of the pressing operation to open said passage and admit blowing air to said parison.

1,756,814. HEDDLE-HANDLING MECHANISM. HOWARD D. COLMAN, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed Feb. 14, 1924, Serial No. 692,645. Renewed Aug. 23, 1928. 30 Claims. (Cl. 28—46.)



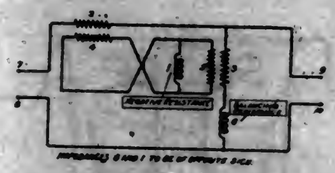
1. A mechanism adapted to operate upon a group of steel heddles each having an offset near its upper end, the heddles alternating in position, with the outer sides of the offsets in contact, so as to form a series of spaces E in the horizontal plane of the offsets and a series of spaces F below the series of offsets, said mechanism comprising an abutment finger adapted to engage the foremost heddle, a second finger adapted and arranged to enter the space F behind the foremost heddle and push it along, a third finger adapted and arranged to enter the space E behind the second heddle and push it along, the abutment finger and the third finger being overlapped and arranged to reciprocate as a unit into and out of engagement with the heddles, means to press the group of heddles against the abutment finger or the third finger, means forming a guideway for the heddles below the series of openings E, said fingers operating above said guideway, and means acting below said guideway and arranged to engage a heddle which has been pushed along by the second or third finger to separate it farther from the remainder of the group.

1,756,815. AUTOMATICALLY-OPERATED PICK-UP SWITCH. WILLIAM F. COTTER, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Sept. 11, 1928. Serial No. 305,289. 11 Claims. (Cl. 179—100.4.)



1. The combination with a radio receiver having a tunable circuit connected to an audio-frequency amplifying circuit, of a phonograph pickup circuit, and a switch arranged to be operated by the tuning means to disconnect said tunable circuit from said amplifier and connect said pickup to said amplifier.

1,756,816. IMPEDANCE VARIATION COMPENSATOR CIRCUITS. MIHRAN M. DOLMAGE, Washington, D. C. Filed Feb. 18, 1920. Serial No. 358,870. 15 Claims. (Cl. 179—170.)



1. Means for compensating varying loads comprising a local circuit, a constant compensating impedance therein having resistance and reactance components of opposite sign to the corresponding impedance components of the generating source, and means for connecting said local circuit to the varying load and to the generating source.

1,756,817. CHEMICAL PRODUCT AND PROCESS FOR MAKING SAME. CARLETON ELLIS and JOSEPH V. MEIGS, Montclair, N. J., assignors, by mesne assignments, to Carleton Ellis, Montclair, N. J. Filed July 28, 1919, Serial No. 313,820. Renewed July 22, 1929. 26 Claims. (Cl. 260—20.)

1. The process of making a pheno sulfur reaction product which consists in maintaining a phenolic body in a fluid condition and adding thereto successive small portions of sulfur halide, the amount of the phenolic body being proportional to the range of 185 and 470 parts of sulfur chloride per 300 parts of C_6H_5OH.

23. A rubbery sulphur plastic containing at least 50% of combined sulphur.

1,756,818. CHEMICAL PRODUCT AND PROCESS OF PRODUCING SAME. CARLETON ELLIS and JOSEPH V. MEIGS, Montclair, N. J.; said Meigs assignor, by mesne assignments, to said Ellis. Filed Sept. 2, 1919, Serial No. 321,183. Renewed July 22, 1929. 29 Claims. (Cl. 260—200.)

1. The process of making a colloidal, plastic product which consists in contacting an inorganic chloride of a metalloid element, in admixture with a diluent, with a substance comprising a phenolic body capable of reacting upon such chloride to resinification the ratio of the weight of such chloride to that of the phenolic body being not less than the molecular ratio of 71 : 94.

1,756,819. RESINOUS PRODUCT, SHELLAC SUBSTITUTE, ETC., AND PROCESS OF MAKING SAME. CARLETON ELLIS and JOSEPH V. MEIGS, Montclair, N. J.; said Meigs assignor, by mesne assignments, to said Ellis. Filed Dec. 15, 1919, Serial No. 344,871. Renewed July 22, 1929. 13 Claims. (Cl. 260—20.)

1. The process of producing resin which comprises maintaining a body comprising a phenolic substance dispersed or extended by an aqueous dispersing or extending medium, bringing into contact with said extending substance a quantity of sulphur halide greater than the amount of the phenolic substance, and sufficient to convert substantially the entire amount of said phenolic substance into a solid resin and separating said resin from the extending medium and thereafter bleaching the resin.

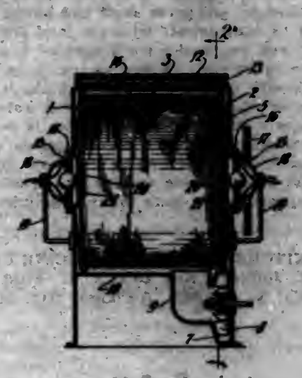
13. A well bleached resinous material derived from a phenolic body having more than 6 carbon atoms and a sulphidising reagent, such resinous material containing combined sulphur as a component, such resinous material being free from bad odor and taste, to permit its use as a component of chewing gum.

1,756,820. SPIKE-TOOTH HARROW. CONRAD GAUDATS, Mansfield, Ohio. Filed Aug. 15, 1929. Serial No. 386,039. 4 Claims. (Cl. 55—8.)



1. In a harrow, a main frame, an auxiliary frame, ground wheels carried by the auxiliary frame, supporting bars mounted for reciprocation transverse the main frame, means for connecting the relatively opposite ends of alternate bars in unit pairs, a shaft extending longitudinally of and carried by the main frame, a crank in said shaft for each unit pair of bars, connections between the cranks and the unit pairs of bars, and means for operating the shaft.

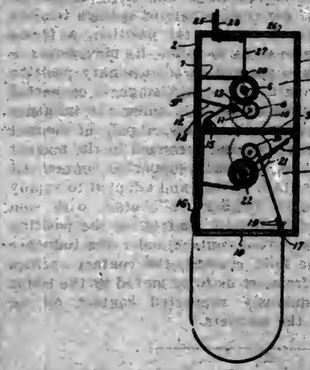
1,756,821. METHOD OF AND MACHINE FOR DRYING AND BLEACHING LAUNDRY. CHRISTOPHER GROSS, Oak Park, Ill., assignor of one-half to Herman G. Grosse, Oak Park, Ill. Filed Mar. 15, 1929. Serial No. 347,247. 3 Claims. (Cl. 34—5.)



1. A laundry drying and bleaching machine comprising a horizontal work-holding cylinder having a foraminous cylindrical wall, means for rotating the cylinder to tumble the laundry therein, means for forcing heated air through the cylinder past the laundry, and means at the axis of the cylinder, at opposite ends of the latter, for projecting ultra-violet rays across the interior of the cylinder from one end to the other.

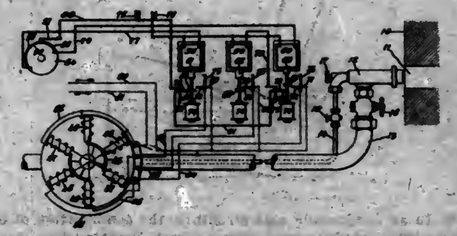
1,756,822. SANITARY ROLL-TOWEL CABINET. EDWARD T. HAILS, Montgomery, Ala., assignor to Super San Towel Cabinet Company, Montgomery, Ala., a Corporation of Aalabama. Filed Feb. 16, 1923. Serial No. 619,462. 1 Claim. (Cl. 312—38.)

A towel cabinet having inclined slots therein, a support for a clean towel supply, a roll adapted for frictional contact with a towel web, and the cabinet having an opening through which said towel web may be drawn, and means for preventing a towel user from causing an overthrow of toweling from said supply, said means including a guide roll having its upper surface above the lower surface of said friction roll, said guide roll having journals pivoted in said inclined slots, the construction being such that a hard sudden pull on said towel web will cause said guide



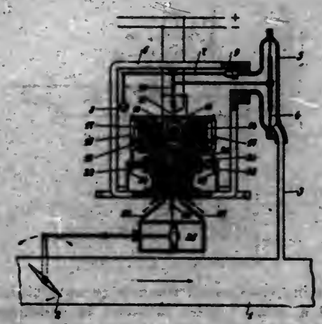
roll to move along said slots toward said friction roll and cooperate therewith to grip the towel between the said rolls.

1,756,823. HEAT REGULATOR. FLOYD E. HARRIS, Flint, Mich. Filed Nov. 16, 1922. Serial No. 601,426. 12 Claims. (Cl. 236—76.)



1. In combination, a heat treating furnace, a burner for supplying fuel to said furnace, a conduit for supplying fuel to said burner, a conduit for supplying air to said burner, a valve shaft, valves on said shaft for controlling the supply of air and fuel to said burner, and means for preventing the temperature of said furnace from rising above a predetermined point, said means including mechanism for operating said valves and thermally controlled means for operating said mechanism.

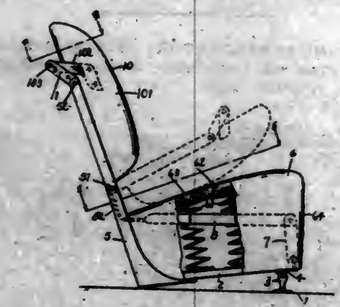
1,756,824. DEVICE FOR REGULATING FLOW OF FLUIDS. FRIEDRICH HASENMANN, Essen-Ruhr, Germany. Filed Oct. 30, 1929. Serial No. 403,647. 3 Claims. (Cl. 50—10.)



1. A device of the character described for regulating flow of fluids, comprising a throttle arranged in the fluid

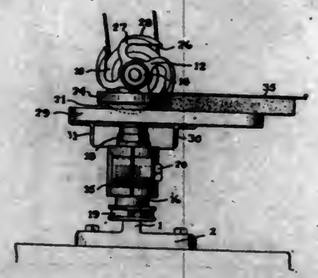
conduit, a hydraulic piston controlling said throttle, a slide valve adapted to admit liquid to either side of the piston according to its movement in one or the other direction from a neutral position, a pair of springs tending to maintain the valve in its neutral position, a frame carried by the slide valve so as to follow its movements, a pair of electromagnets supported in a stationary position within said frame, armatures for said magnets connected to the frame and adapted to move it under the influence of the magnets in opposite directions, a pair of contact springs carried by said frame and arranged in the magnet circuits one in each, a pendulously supported contact arranged between said contact springs and adapted to supply current to the respective magnets on contact with said contact springs, and a diaphragm controlling the position of said pendulously supported contact under the influence of the pressure in the fluid conduit, the contact springs being arranged in the frame so as to be moved by the latter away from the pendulously supported contact on an energization of one of the magnets.

1,756,825. AUTOMOBILE SEAT CONSTRUCTION. CARL F. HESS, Comstock Park, Mich. Filed Sept. 8, 1927. Serial No. 218,224. 9 Claims. (Cl. 155—53.)



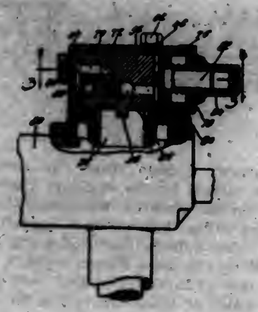
9. In an automobile seat structure, the combination of a seat bottom, deep spring cushion with flexible sides, upright posts at each front corner within the cushion casing, oblique members pivoted to the upper end thereof and extending outwardly into hinge members at each side, an independent seat back adapted to move up and down connected to said hinge members at the rear of said oblique members, and back supporting columns containing rule joints opposite the hinge at the lower part of said back, coacting as specified.

1,756,826. TRIMMING MACHINE. PENROSE R. HOOPES, Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 2, 1923. Serial No. 655,183. 22 Claims. (Cl. 164—70.)



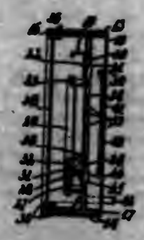
1. A cutting mechanism comprising an annular cutting flange and a rotary cutter mounted in shearing relation thereto, said cutter having a shearing edge, all points of which lie in the surface of a sphere whose center lies in the axis of rotation of said cutter.

1,756,827. BRAKE. BRYAN E. HOUSE, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 2, 1924. Serial No. 729,801. 6 Claims. (Cl. 188—152.)



1. In vehicle steering mechanism of the class described and in combination with a casing having a cross shaft operatively connected with the front wheels of the vehicle, and a steering wheel shaft for operating said cross shaft; a valve casing secured to said first mentioned casing and having an inlet port, and two outlet ports located one upon either side of said inlet port; an oscillating valve member operated by said cross shaft and having an inlet port adapted to communicate with the inlet port of said valve casing, and two outlet ports adapted to communicate with the outlet ports of said casing; a cylinder associated with said valve casing and with the interior of which either of the outlet ports of said valve casing may communicate when said valve member is moved into its extreme positions; a spring-pressed piston operating in said cylinder; a conduit leading from said cylinder to the inlet port of said valve casing; and a check valve in said conduit and which opens toward said inlet port.

1,756,828. KITCHENETTE AND MEDICINE CABINET. CHARLES E. JOHNSON, New York, N. Y. Filed Mar. 30, 1929. Serial No. 351,385. 5 Claims. (Cl. 312—172.)



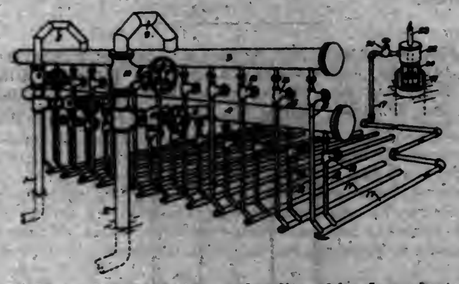
1. A device of the class described, comprising a frame having a flat rear, parallel forwardly extending sides integral with the rear, supplementary sides integral with the front edges of said sides and extending rearwards on the inner sides thereof, and top and bottom flanges extending inwards from the said rear and the forwardly extending sides and arranged for forming grooves to receive glass plates in cooperation with the ends of the supplementary sides, glass plates engaged in the grooves, display racks supported by the supplementary sides, and glass doors for sliding across the front ends of the forwardly extending sides.

1,756,829. COAT LINING. BENJAMIN KAPLAN and LEO ROSENBERG, New York, N. Y. Filed Dec. 16, 1929. Serial No. 414,385. 6 Claims. (Cl. 2—278.)



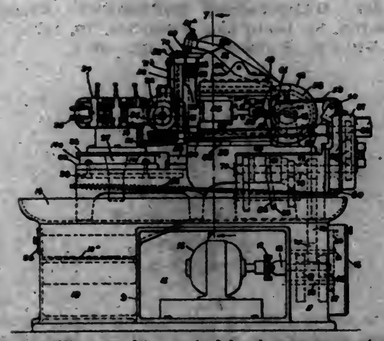
1. In combination with a coat or other garment, a lining secured in place along the sides and top so as to be free along its bottom edge, and weights attached along said bottom edge to hold the lining straight while the garment is being worn.

1,756,830. ELEVATED CENTRAL HEADER FOR GAS LIFTS. HARRY C. MARSHALL, Arcadia, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed July 18, 1927. Serial No. 206,685. 5 Claims. (Cl. 103—10.)



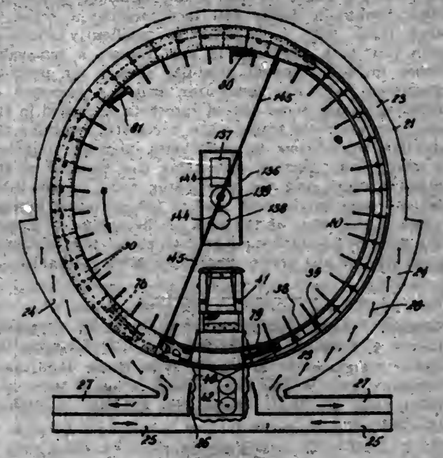
1. In gas lift apparatus, a plurality of headers adapted to carry different gas pressures, said headers being elevated from the ground level and spaced, a plurality of manifolds arising from approximately the ground level to said headers, a plurality of tubing connections arising from approximately the ground level to said headers, and valves disposed between said headers and said manifolds and connections, whereby all parts are exposed for convenient access.

1,756,831. MILLING MACHINE. NEWMAN M. MARSILIUS, Bridgeport, Conn., assignor, by mesne assignments, to The Producto Machine Company, Bridgeport, Conn., a Corporation of Connecticut. Filed May 17, 1927. Serial No. 192,002. 6 Claims. (Cl. 90—16.)



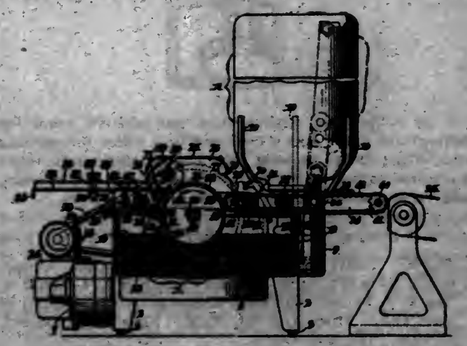
1. In a milling machine, a bed having ways, a standard positioned thereon and also provided with ways, a reciprocatory carriage having ways slidably mounted in the ways of the bed and standard, a vertically movable cutter slide mounted in the carriage, means for reciprocating the carriage, means for operating the cutter slide, a cutter shaft and cutters thereon carried in the slide, driving connection for the cutter shaft, said driving connection including a worm and worm gear, a splined shaft carrying the worm, said worm gear on the cutter shaft, flexible joints in said splined shaft, driving means for said shaft, a clutch mechanism interposed between the driving means and said cutter shaft, and change gears also interposed between said driving means and cutter shaft.

1,756,832. AMUSEMENT RIDE. HYLA F. MAYNES, North Tonawanda, N. Y., assignor of one-half to Emma C. Maynes, North Tonawanda, N. Y. Filed Sept. 20, 1928. Serial No. 307,249. 30 Claims. (Cl. 104—63.)



1. An amusement ride comprising the combination of an endless track, a car movable over the track, a cable for pulling the car, a driving sheave for the cable, a pneumatic cable clutch carried by the car, means for supplying air to hold the clutch in cable-gripping position, means for automatically cutting off the supply of air as the car passes the driving sheave to release the clutch, and means for automatically turning it on again after the driving sheave has been passed.

1,756,833. ADHESIVE-APPLYING MACHINE. CHARLES S. PRICE, Bethlehem, Pa., assignor to L. F. Grammes & Sons, Inc., Allentown, Pa., a Corporation of Maryland. Filed Sept. 14, 1928. Serial No. 306,086. 17 Claims. (Cl. 91—51.)

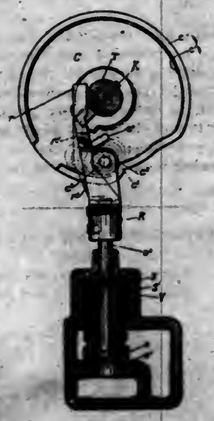


1. The combination in an adhesive-applying machine, of a container for the adhesive; a rotatable applicator re-

movably journaled in the container; a co-operative relatively-adjustable distributor; and a frame sustaining feeding-in, stripping and receiving means, fulcrumed to the container with capacity for limited movement; said frame in one position securing the applicator and distributor means in operative location, and, when in another position, permitting their free removal.

17. The combination in an adhesive-applying machine, of a container for the adhesive, said container having a filler pocket with removable angled-rods determining tripod support for a fountain whereby the level of adhesive in the container is maintained constant; a cover with a pin and snap flanges adapted to respectively engage one of the angled-rod sockets and the outer wall of the filler pocket to close in the latter when the fountain is not used; a rotatable applicator drum removably journaled in the container; a friction-driven spring-influenced distributor roll co-operative with and adjustable relative to the applicator drum; a frame pivoted to the container, a non-contacting feeding-in driver roll incorporating a series of spaced disks with a co-operative resiliently-influenced driven roll, both journaled in said frame; a removable stripper including spaced pawl-like fingers for point-on impingement with the applicator drum; a conveyor of paralleling chains about spaced sprockets journaled in the frame; the aforesaid frame when horizontal retaining the respective mechanisms in co-ordinate operative relation, but when swung vertical permitting free removal of the applicator drum and the distributor roll; a removable cover snapping on the back wall of the container serving to close in the space at the back of the applicator drum; and a removable member adapted to shield the feeding-in and stripper means and to guard the drive mechanism.

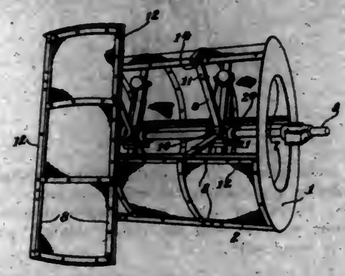
1,756,834. AUXILIARY VALVE-CLOSING MEANS. EDWIN A. ROBERTSON, Lake Wawasee, Ind., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind., a Corporation of Maryland. Filed Sept. 10, 1927. Serial No. 218,783. 8 Claims. (Cl. 251—39.)



1. In combination with a valve, non-positive means for closing said valve and a cam and cam roller for opening said valve; means on said cam against which said roller is adapted to bear in certain positions of the cam pressing said valve toward closing position.

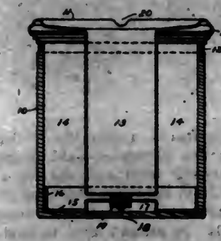
1,756,835. FERTILIZER-SCREEN VIBRATOR. AUGUSTUS J. SACKETT, Anne Arundel County, Md., assignor to The A. J. Sackett and Sons Company, a Corporation of Maryland. Filed Apr. 16, 1929. Serial No. 355,462. 1 Claim. (Cl. 209—382.)

The combination in a fertilizer screening machine of a rotating cylinder having walls of foraminous material, the cylinder having a central shaft and radiating spokes supporting the foraminous material, a flange surrounding the shaft on each side of the spokes of one set and a plurality of swinging pendulumlike weights each located between two adjacent spokes, a pair of arms supporting each of said weights, one on each side of the spokes and immediately



adjacent the same, each said arm being pivotally mounted at one end on one said flange whereby each weight is permitted to swing in the plane of the spokes from one spoke to the next causing each weight to vibrate from one spoke to the other as the screen rotates, coming in contact with each of said spokes alternately and vibrating the screen.

1,756,836. SMOKER'S ARTICLE. DOMINICK SALVATI, Brooklyn, and HERMAN LE QUORNIK, Richmond Hill, N. Y.; said Le Quornik assignor to said Salvati. Filed Dec. 19, 1928. Serial No. 327,086. 2 Claims. (Cl. 312—78.)



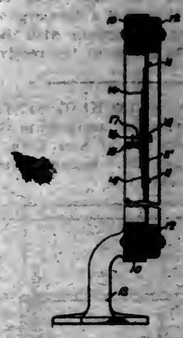
1. In a device of the class described, a jar, a cover for said jar, an ash receiver extending downwardly from said cover and into the jar, a compartment for storing cigars or cigarettes being formed between the inside of the jar and the outside of the ash receiver, and a disc attached to the bottom of the ash receiver upon which the cigars or cigarettes are supported.

1,756,837. HAIR-WAVING EQUIPMENT. WILLIAM G. SHELTON, St. Louis, Mo. Filed Nov. 19, 1928. Serial No. 320,825. 8 Claims. (Cl. 132—36.)



1. In a clamp for a hair waving device, a pair of clamping jaws each comprising a channel-shaped metal element and a rubber covering stretched over said element, the channel of one of said jaws facing the channel of the other of said jaws whereby the portions of the rubber covering stretched across said channels are opposed to each other and may yield inwardly of their respective jaws.

1,756,838. SOUND-REPRODUCING APPARATUS. LE ROY W. STAUNTON, New York, N. Y., assignor of one-half to Stephen Bourne, New York, N. Y. Filed July 3, 1926. Serial No. 120,414. 6 Claims. (Cl. 181—31.)



1. In sound-reproducing apparatus, the combination with a substantially non-resonant support, of a diaphragm mounted in a state of relatively high permanent internal stress on said support, said diaphragm being a composite laminated structure comprising superposed layers of sheet material, the successive layers to be adhesively secured and of successively decreasing diameters toward the centre, and means arranged to vibrate said diaphragm, whereby vibrations are produced in said diaphragm of sufficient amplitude for reproducing sound of normal audibility directly in the surrounding free air independently of resonators.

1,756,839. TOWEL CABINET. FRANK M. STEINER, Minneapolis, Minn., and WALTER S. GRAVES, Kansas City, Mo., assignors to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed June 5, 1922, Serial No. 565,802. Renewed Apr. 28, 1929. 9 Claims. (Cl. 312—38.)

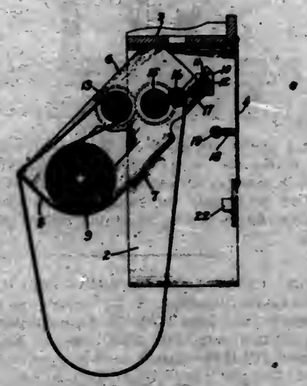


1. A towel cabinet comprising a casing having an opening in its upper walls for access to the clean towel, a feed roll above and adjacent said openings and over which the web of clean towel is delivered, and a plurality of towel compartments in the rear of and beneath said feed roll, one of said compartments being adapted to contain the roll of towel from which the web is conducted over said feed roll, and the other compartment being adapted to contain a reserve towel roll to be placed in said first compartment when the roll therein is exhausted said second compartment being accessible only through the first compartment whereby all of the first roll of toweling must be removed from said first compartment before the second roll can be used.

5. A towel holder comprising a support for the clean towel, a feed roll over which the clean towel is fed, a dog for normally locking said feed roll against revolution, said dog having a pin thereon, a slide having a recess to receive said pin and actuated by the finger of the user for moving said dog to its releasing position, said dog having means actuated by said roll for positively returning said dog to its locking position after the initial movement of said roll, means for guiding said slide upwardly out of engagement with the pin on said dog when inward pressure is applied to said slide, and a spring normally tending to return said slide to its engaging position with said dog when pressure of the user thereon is released.

8. A towel cabinet having an open top and means therein to support a supply of clean towel, the upper front portion of the said cabinet having an opening therein merging into said top opening through which the user may reach the clean towel web, a feed roll in the upper front portion of said cabinet having a roughened surface over which the clean web may be stretched from the towel supply to depend in the rear of and adjacent said front opening, a cover for said top opening, the said cover having a downwardly extending front portion shielding said roll, whereby when the said cover is raised the clean towel web may be drawn up and stretched to form a loop of the desired length at the front of the cabinet while out of contact with said roll to facilitate loading the cabinet.

1,756,840. TOWEL CABINET. FRANK G. STEINER, Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 15, 1926, Serial No. 94,807. Renewed June 7, 1929. 7 Claims. (Cl. 312—38.)

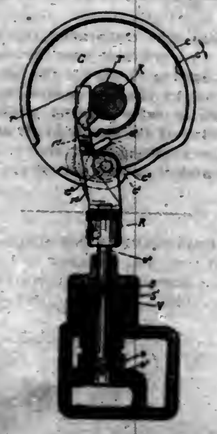


6. A towel cabinet having mechanism for feeding clean toweling into position of use and thereafter drawing the used portion of said toweling into the cabinet, a frame in which said mechanism is mounted, means associated with the cabinet for permitting said frame to be shifted to form a space between the said mechanism and a wall of said cabinet to facilitate threading a portion of said toweling over parts of said mechanism, a shield separating the soiled and clean portions of said toweling, and means for moving said shield when said frame is shifted.

movably journaled in the container; a co-operative relatively-adjustable distributor; and a frame sustaining feeding-in, stripping and receiving means, fulcrumed to the container with capacity for limited movement; said frame in one position securing the applicator and distributor means in operative location, and, when in another position, permitting their free removal.

17. The combination in an adhesive-applying machine, of a container for the adhesive, said container having a filler pocket with removable angled-rods determining tripod support for a fountain whereby the level of adhesive in the container is maintained constant; a cover with a pin and snap flanges adapted to respectively engage one of the angled-rod sockets and the outer wall of the filler pocket to close in the latter when the fountain is not used; a rotatable applicator drum removably journaled in the container; a friction-driven spring-influenced distributor roll co-operative with and adjustable relative to the applicator drum; a frame pivoted to the container, a non-contacting feeding-in driver roll incorporating a series of spaced disks with a co-operative resiliently-influenced driven roll, both journaled in said frame; a removable stripper including spaced pawl-like fingers for point-on impingement with the applicator drum; a conveyor of paralleling chains about spaced sprockets journaled in the frame; the aforesaid frame when horisontal retaining the respective mechanisms in co-ordinate operative relation, but when swung vertical permitting free removal of the applicator drum and the distributor roll; a removable cover snapping on the back wall of the container serving to close in the space at the back of the applicator drum; and a removable member adapted to shield the feeding-in and stripper means and to guard the drive mechanism.

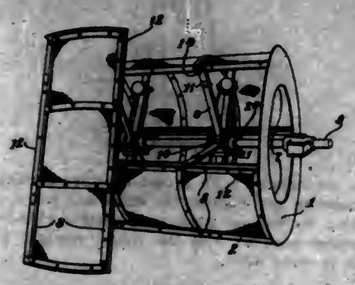
1,756,834. AUXILIARY VALVE-CLOSING MEANS. EDWIN A. ROBERTSON, Lake Wawasee, Ind., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind., a Corporation of Maryland. Filed Sept. 10, 1927. Serial No. 218,783. 3 Claims. (Cl. 251—39.)



1. In combination with a valve, non-positive means for closing said valve and a cam and cam roller for opening said valve; means on said cam against which said roller is adapted to bear in certain positions of the cam pressing said valve toward closing position.

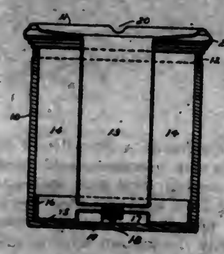
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and a rubber covering stretched over said element, the channel of one of said jaws facing the channel of the other of said jaws whereby the portions of the rubber covering stretched across said channels are opposed to each other and may yield inwardly of their respective jaws.

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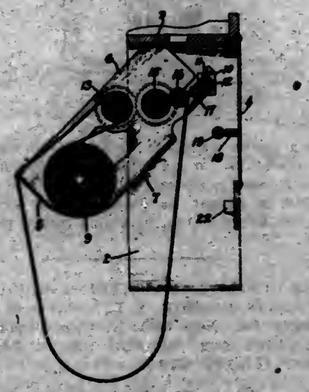


1. A towel cabinet comprising a casing having an opening in its upper walls for access to the clean towel, a feed roll above and adjacent said openings and over which the web of clean towel is delivered, and a plurality of towel compartments in the rear of and beneath said feed roll, one of said compartments being adapted to contain the roll of towel from which the web is conducted over said feed roll, and the other compartment being adapted to contain a reserve towel roll to be placed in said first compartment when the roll therein is exhausted said second compartment being accessible only through the first compartment whereby all of the first roll of toweling must be removed from said first compartment before the second roll can be used.

5. A towel holder comprising a support for the clean towel, a feed roll over which the clean towel is fed, a dog for normally locking said feed roll against revolution, said dog having a pin thereon, a slide having a recess to receive said pin and actuated by the finger of the user for moving said dog to its releasing position, said dog having means actuated by said roll for positively returning said dog to its locking position after the initial movement of said roll, means for guiding said slide upwardly out of engagement with the pin on said dog when inward pressure is applied to said slide, and a spring normally tending to return said slide to its engaging position with said dog when pressure of the user thereon is released.

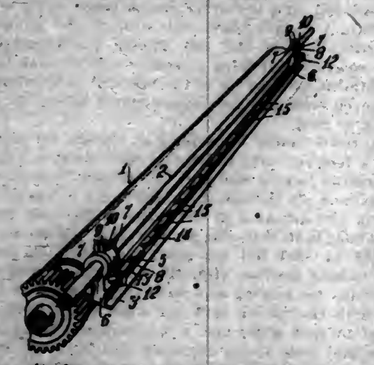
8. A towel cabinet having an open top and means therein to support a supply of clean towel, the upper front portion of the said cabinet having an opening therein merging into said top opening through which the user may reach the clean towel web, a feed roll in the upper front portion of said cabinet having a roughened surface over which the clean web may be stretched from the towel supply to depend in the rear of and adjacent said front opening, a cover for said top opening, the said cover having a downwardly extending front portion shielding said roll, whereby when the said cover is raised the clean towel web may be drawn up and stretched to form a loop of the desired length at the front of the cabinet while out of contact with said roll to facilitate loading the cabinet.

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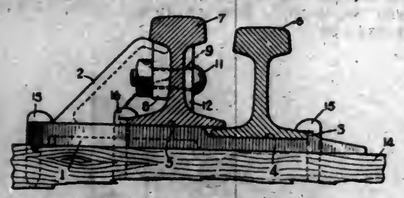
6. A towel cabinet having mechanism for feeding clean toweling into position of use and thereafter drawing the used portion of said toweling into the cabinet, a frame in which said mechanism is mounted, means associated with the cabinet for permitting said frame to be shifted to form a space between the said mechanism and a wall of said cabinet to facilitate threading a portion of said toweling over parts of said mechanism, a shield separating the soiled and clean portions of said toweling, and means for moving said shield when said frame is shifted.

1,756,841. ROLL WIPER OR CLEANER FOR PRINTING PRESSES AND SIMILAR MACHINES. GEORGE ULLRING, Chicago, Ill. Filed Sept. 1, 1928. Serial No. 303,398. 2 Claims. (Cl. 101—425.)



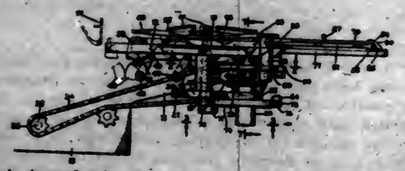
1. An attachment of the kind specified, including a substantially inflexible inverted T-bar having a side flange adapted to be disposed with one edge opposed to a roll to be wiped, a flexible wiping strip mounted on said flange, hangers mounted on the ends of said bar and adapted to receive a supporting rod disposed parallel and adjacent to the said roll, clamp collars associated with said hangers and adapted to be rigidly associated with said rod, set-screws engaging said clamp collars and said hangers for adjusting the position of the bar with respect to the said roll, said bar adapted to be normally disposed at an incline to present a trough between its middle flange and the above named side flange thereof for receiving matter wiped from said roll, there being a drain opening in said middle flange.

1,756,842. GUARD-RAIL BRACE. ALONZO H. WESTON, Yonkers, N. Y., assignor to American Chain Company, Inc., a Corporation of New York. Filed Jan. 21, 1929. Serial No. 333,856. 9 Claims. (Cl. 238—20.)



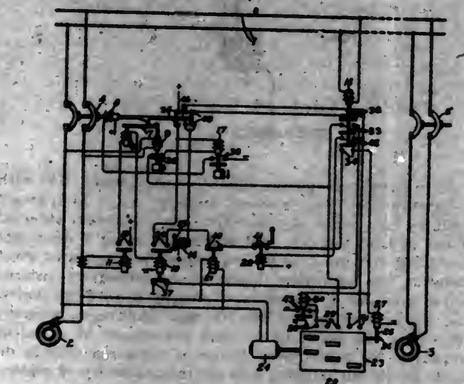
9. In a guard rail brace of the type described, a guard rail, a traffic rail, a tie plate, said tie plate being provided with seats so formed as to elevate one rail above the other and to permit the flange of the elevated rail to overlap the flange of the remaining rail to prevent tipping thereof.

1,756,843. CIGAR-TRANSFERRING MACHINE. HENRY H. WHEELER, Brooklyn, N. Y., assignor to General Cigar Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 30, 1928. Serial No. 303,001. 5 Claims. (Cl. 198—210.)



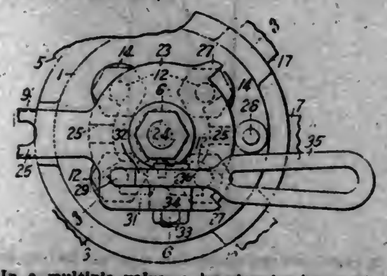
1. A transferring machine adapted to receive cigars from a foiling machine and to supply the same to a banding machine, said transferring machine comprising, in combination, a base, a turret rotatively mounted thereon, a plurality of arms extending radially from said turret, a plurality of fingers carried by said turret, one of said fingers being provided for each of said arms, said fingers being pivotally mounted, resilient means for pressing each of said fingers in contact with a cigar carried by a corresponding arm during rotation of said turret, means for advancing cigars successively onto said turret arms, each successive cigar being advanced upon the arm of said turret which is at a receiving station at the time of actuation of said cigar advancing means, automatic means for causing step-by-step rotation of said turret, an ejector carried by each arm, means for releasing a finger from contacting relation with the cigar held thereby, and means for actuating an ejector at a discharge station, said last named means having connections with the means for advancing cigars onto the turret at the receiving station

1,756,844. AUTOMATIC SWITCHING SYSTEM. ARVID E. ANDERSON, Lansdowne, Pa., assignor to General Electric Company, a Corporation of New York. Filed July 18, 1928, Serial No. 293,629. Renewed Feb. 27, 1930. 14 Claims. (Cl. 171—118.)



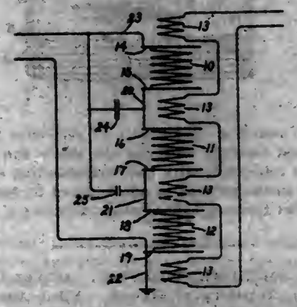
1. In combination, a load circuit, a source of current disconnected from said circuit, a switch for connecting said source of said load circuit, means responsive to the voltage of said circuit normally arranged to effect the immediate closing of said switch when the voltage of said load circuit decreases below a predetermined value while said switch is open, means responsive to an overload on said source for effecting the opening of said switch, and means controlled by said overload responsive means for rendering said voltage responsive means inoperative to effect the immediate closing of said switch when said load circuit becomes deenergized due to said switch being opened in response to an overload on said circuit.

1,756,845. MULTIPLE VALVE. JOHN B. AUFULDISH, Dayton, Ohio, assignor to The Multiple Valve and Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 28, 1927. Serial No. 171,476. 21 Claims. (Cl. 277—20.)



10. In a multiple valve, a housing having a plurality of passageways, two pairs of valves for controlling the flow of fluid through said passageways, an actuating device having means for first opening and closing one pair of valves and then opening and closing the other pair of valves, and separately operable means or simultaneously opening one valve of each pair of valves independently of the other valves.

1,756,846. ELECTRICAL INDUCTION APPARATUS. LOUIS F. BLUME, Pittsfield, Mass., and WILLIAM O. DWYER, Kingston, Ontario, Canada, assignors to General Electric Company, a Corporation of New York. Filed Apr. 22, 1929. Serial No. 356,088. 3 Claims. (Cl. 175—356.)



1. Electrical induction apparatus having winding turns connected in series between a grounded terminal and a high voltage terminal, an electrostatic shield adjacent part of said turns near the high voltage terminal and electrically connected to said high voltage terminal, an electrostatic shield adjacent another part of said turns nearer said grounded terminal, and an electrical connection including a condenser between said latter shield and said high voltage terminal.

1,756,847. AUTOMATIC PISTOL. VICTOR BOURTH, Boulogne sur Seine, France. Filed Oct. 24, 1927, Serial No. 228,460, and in Belgium Oct. 29, 1926. 8 Claims. (Cl. 42—3.)



1. An automatic pistol comprising a cylindrical back portion continuing the barrel and having two longitudinal grooves formed in the sides thereof, a plug closing the end of said cylinder remote from the barrel, a cylindrical block slidably mounted in said cylindrical portion and comprising wings corresponding with said grooves, projections and cartridge extracting blades, a firing pin at the centre of said block, a shutter member on the upper part of said block and a screw securing said member to the block, said member being also of cylindrical form, a notch in the lower part of said block, a finger pivoted in said notch, an indent in said block and a retaining beak adapted to engage in said indent.

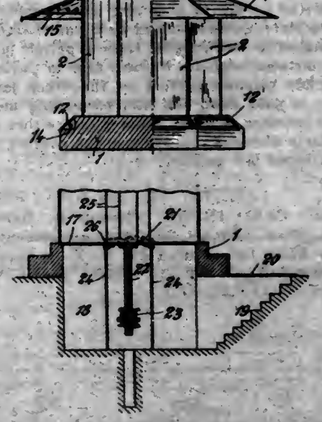
1,756,848. TRAIN-ORDER DEVICE. WILLIAM T. BOYD, Glendale, Ky. Filed Jan. 14, 1929. Serial No. 332,404. 7 Claims. (Cl. 258—2.)

1. A train order holder comprising a standard, an arm extending at rightangles therefrom, a hoop holding member having a part rotatably arranged in the arm, means for yieldingly holding said part against movement, a tubular hoop holder, a shaft depending therefrom and rotatably



arranged in the arm and spring means within the arm and engaging the shaft for yieldingly holding the shaft against rotary movement.

1,756,849. EXHIBITION AND ADVERTISEMENT STAND. MARIUS ANDERSEN BRAASTAD, Oslo, Norway. Filed Oct. 3, 1927, Serial No. 223,815, and in Norway Aug. 18, 1927. 5 Claims. (Cl. 312—100.)



1. An exhibition-stand comprising a frame work forming a housing and a roof and built up of glass panels, a chamber below the housing, a floor separating the interior of the housing from the chamber, and means whereby a portion of the floor is adapted to be lowered into said lower chamber and again raised to normal position.

1,756,850. EMERGENCY GOVERNING MECHANISM FOR ELASTIC-FLUID TURBINES AND THE LIKE. REED J. CAUGHEY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 24, 1927. Serial No. 201,249. 5 Claims. (Cl. 264—17.)

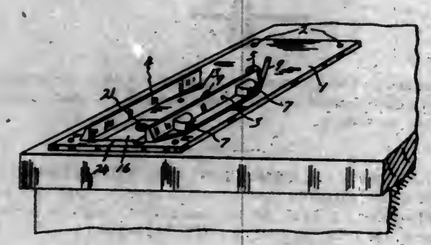
1. The combination with a shaft, of an emergency governor comprising an eccentrically mounted weight, a radi-

ally extending spring which normally holds the weight from movement, a movable support for the inner end of such spring, said support normally holding the spring under



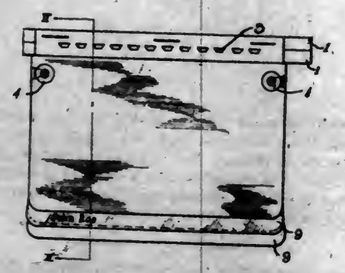
a predetermined compression, and means for effecting movement of said support to decrease the compression of said spring whereby the governor may operate under the action of centrifugal force at a lower speed.

1,756,851. WOODWORKER'S TOOL. JAMES E. CLEMENT, New Baltimore, Mich. Filed May 31, 1928. Serial No. 281,809. 4 Claims. (Cl. 144—307.)



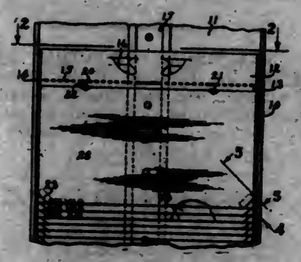
1. A work holder comprising a plate formed with a pair of spaced, parallel, elongated slots, and with a third slot occupying an acutely angular relation to the first mentioned slots, a pair of co-acting jaw members mounted upon said plate, guide members upon one of said jaw members engaging in said parallel slots to permit movement of the jaw member with its contact face in parallel planes, and a guide member carried by the other jaw member, engaging in said third slot and permitting movement of such jaw member with its contact face either parallel to or angularly disposed relatively to the contact face of the first-mentioned jaw member.

1,756,852. CARD INDEX. GEORGE H. DAWSON, Cambridge, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 16, 1925. Serial No. 69,357. 9 Claims. (Cl. 129—16.7.)



1. In a card index system, a plurality of card holders, each comprising a spacing bar and an extended hinge member, said hinge member having a pair of parallel hinge joints, a card removably mounted on said hinge member between said hinge joints and a transparent strip attached to said hinge member below said hinge joints.

1,756,853. INDEX OR FILE. WILLIAM H. DAY, East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 5, 1924. Serial No. 690,755. 26 Claims. (Cl. 129—16.7.)



8. In an index or file, a pair of reference members in superimposed relation, with the side edges and a marginal edge of one coinciding with the corresponding edges of the other, and means secured to one adapted to detachably retain the other thereon, said means comprising a wire staple.

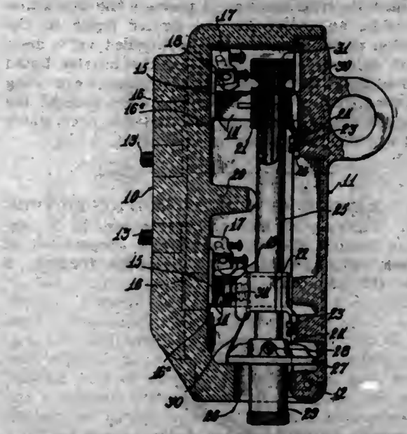
1,756,854. AMUSEMENT DEVICE. AUGUST DE FREITAS, Honolulu, Territory of Hawaii. Filed Apr. 19, 1929. Serial No. 356,461. 1 Claim. (Cl. 272—30.)



In an amusement device a circular elevated base, a disk arranged parallel to the base slightly above the latter, anti-friction elements depending from the underface of the disk and having rolling contact with the base, a circular flange depending from the edge of the disk and overlying the outer edge of the base, a vertical post extending centrally through the base and disk, means for securing the disk to the post, a bearing for rotatably supporting the lower end of the post, and passenger carrying beams pivotally supported on the post above the disk.

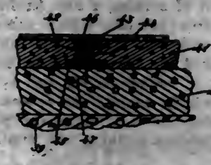
1,756,855. EXPULSION FUSE. JOHN F. DOHERWARDT, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed June 12, 1929. Serial No. 370,258. 14 Claims. (Cl. 200—127.)

1. A device of the type described, comprising in combination a fuse box, a line terminal in said box, a second line terminal in said box in spaced relation to said first named terminal, a tube of insulating material extending from said first named terminal to said second terminal and having an opening therefrom at a point beyond said second terminal, a barrier surrounding said tube and extending outwardly from its face at a point between said opening and said



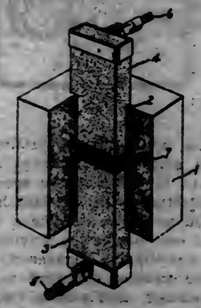
second terminal, and a fuse link connected with said first named terminal and extending therefrom through the tube and turned backwardly about said barrier and connected at its turned-back portion with said second terminal.

1,756,856. TERRAZZO-FLOORING DIVIDING STRIP. PASQUALE GALASSI, New York, N. Y. Filed Jan. 18, 1928. Serial No. 247,620. 3 Claims. (Cl. 94—17.)



1. As a new article of manufacture, a preformed floor strip for terrazzo floors or the like for dividing the floor composition into panels conforming to a desired design, comprising an individual unitary straight strip comprising cementitious material including anti-slip aggregate to present an anti-slip surface, adapted to meet an adjoining strip of the same construction at any angle necessary to produce the desired design in the floor.

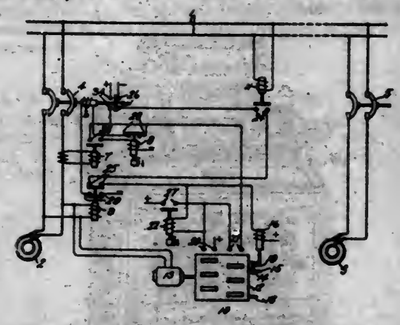
1,756,857. HARD-METAL COMPOSITION AND METHOD OF MAKING THE SAME. EMERY G. GILSON, Colonie, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 28, 1927, Serial No. 187,328. Renewed June 11, 1929. 18 Claims. (Cl. 29—160.5.)



1. The method of producing a metallic structure consisting largely of tungsten but containing appreciable amounts of carbon and an element of the iron group, which comprises mixing powdered tungsten, carbon and an element of the iron group, and applying pressure thereto at the sintering temperature of the mixture.

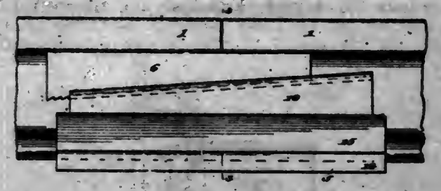
5. The method of forming a metallic structure consisting largely of tungsten but containing appreciable amounts of carbon and cobalt, which comprises mixing powdered tungsten, carbon and cobalt in the desired proportions, heating the powdered materials to the sintering temperature of the mixture, and applying pressure thereto.

1,756,858. AUTOMATIC SWITCHING SYSTEM. WILLIAM N. GITTINGS, Springfield, Pa., assignor to General Electric Company, a Corporation of New York. Filed Aug. 10, 1928. Serial No. 298,694. 3 Claims. (Cl. 171—118.)



1. In combination, a source of current, a load circuit, a switch for connecting said source to said circuit, means for closing said switch including a timing device which when operated is arranged to effect the closing of said switch after a predetermined time interval, a starting circuit for said timing device, and means responsive to the position of said switch and the voltages of said load circuit and of said source for controlling said starting circuit so that the operation of said timing device is initiated automatically only when the switch is open, the voltage of the source is above a predetermined value and the load circuit voltage is below a predetermined value.

1,756,859. RAILWAY RAIL JOINT. SEPTIMUS H. GRIFFITHS, Wheeling, W. Va. Filed Nov. 9, 1929. Serial No. 406,074. 8 Claims. (Cl. 238—208.)



1. A rail joint of the character described, comprising track rails formed with a slotted portion at each end, a base plate disposed beneath the end portions of the rails, an upper splice bar formed with an upward extension fitted within the slotted portion of each rail, and a lower splice bar disposed beneath the upper splice bar, each of said splice bars being provided with oppositely inclined locking faces.

1,756,860. APPARATUS FOR PRODUCING SOUND. EMILE C. GUEDON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 31, 1928. Serial No. 303,207. 5 Claims. (Cl. 179—100.41.)

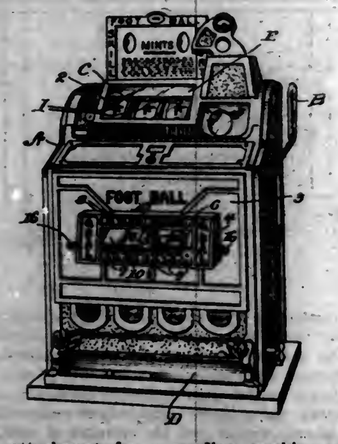
1. In a sound producing device arranged to be moved into different operating positions, a movable armature ar-

ranged to be unaffected by the weight of said device in one of said positions and to be affected by said weight in an-



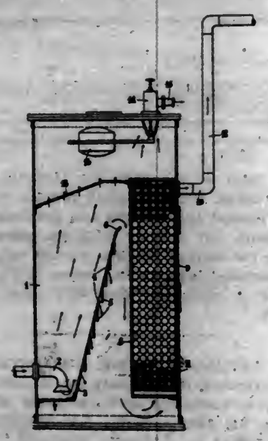
other of said positions, and means for neutralizing the effect of said weight on said armature in said last mentioned position.

1,756,861. GAME ATTACHMENT FOR COIN MACHINES. HARRY H. HOKE, Jr., Washington, D. C. Filed Jan. 29, 1930. Serial No. 424,890. 3 Claims. (Cl. 116—120.)



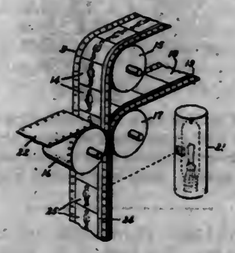
1. An attachment for a vending machine which delivers varying numbers of objects, comprising hand operated means for moving a marker certain distances according to the number of tokens delivered by the machine.

1,756,862. SEPARATOR FOR THE TREATMENT OF MIXTURES OF MUTUALLY-INSOLUBLE LIQUIDS. HASTINGS JOHN HOLFORD, London, England, assignor to Harvey Holford Separators, Limited, London, England. Filed Jan. 30, 1929, Serial No. 336,279, and in Great Britain Feb. 4, 1928. 3 Claims. (Cl. 210—54.)



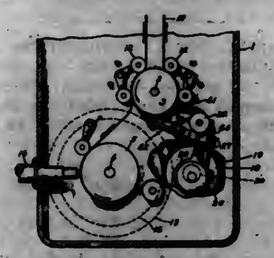
1. A separator for the treatment of mutually insoluble liquids, such for instance as oil and water, comprising a vessel, a perforated diaphragm dividing the same into an upper and lower section, an inlet for the mixture to be treated adjacent to the base of the vessel, a partition extending from a point adjacent to the base of the vessel in an upward direction adapted to promote the separation of the liquids, an outlet for the lighter liquid in the upper section of the vessel, a float-controlled valve associated with said outlet, an outlet for the heavier liquid below and adjacent to the diaphragm, a passage extending to said outlet from a point adjacent to the base of the vessel and packing material in said passage over which the liquid will flow on its way to said outlet.

1,756,863. METHOD OF MAKING MOTION-PICTURE FILMS. CHARLES A. HOXIE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 2, 1926. Serial No. 152,248. 3 Claims. (Cl. 88—16.2.)



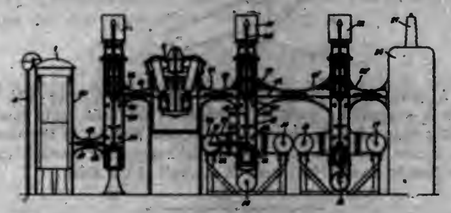
2. The method of making a film having moving picture and sound records thereon which comprises making a picture record on a film which is particularly adapted by reason of its speed for the making of the original picture record, making a sound record on a five-grained film which is particularly adapted by reason of its structure for recording sound, and printing the picture and sound records thus made on a third film similar to the sound record film.

1,756,864. FILM-DRIVING APPARATUS. CHARLES A. HOXIE, Alplaus, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 19, 1929. Serial No. 356,536. 10 Claims. (Cl. 271—23.)



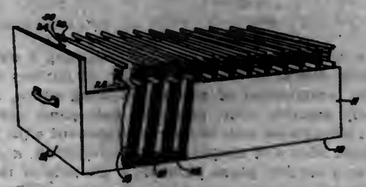
1. Film driving apparatus comprising a plurality of driving members arranged to engage a film at spaced points, and means for varying the speed of one of said members in accordance with the length of film between the members, said means comprising a driven wheel connected with said one member, a driving wheel having a resilient face in non-slipping engagement with said driven wheel, a movable member arranged to engage the film between said members, and means responsive to movement of the movable member for varying the pressure of the driving wheel against the driven wheel.

1,756,865. HIGH-POTENTIAL SWITCHING STATION. HERMAN J. H. HUBER, Upper Darby, Pa., and HENRY TRENCHAM, Ruislip, England, assignors to General Electric Company, a Corporation of New York. Filed June 21, 1926. Serial No. 117,319. 4 Claims. (Cl. 175—298.)



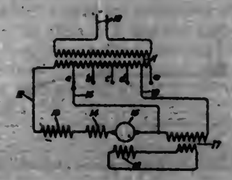
1. In a polyphase switching station comprising a source having a grounded neutral and current limiting means therein, a metal-clad unit comprising a set of bus bars each individually and centrally mounted in a separate grounded metallic pipe, a phase connection to each bus bar, separate main and disconnecting switches for controlling each of said phase connections, each switch having a separate enclosing grounded casing and each phase connection having separate metallic enclosures connecting the switch casings and the bus bar enclosure of the corresponding phase, an insulating oil contained in said casings and enclosures, and flexible connections in the enclosures for the phase connections, said enclosures and flexible connections being constructed to form oil-tight intercommunicating passages for the insulating oil.

1,756,866. FILING DEVICE. LE ROI E. HUTCHINGS, Buffalo, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed May 11, 1927. Serial No. 190,504. 8 Claims. (Cl. 129—16.)



7. A filing unit for dividing a file drawer into a plurality of pockets, comprising a plurality of partition members, and means hingedly connected to the bottoms of said partition members adjustably securing said members in pocket-forming relation and permitting relative movement between said members on said hinged connections.

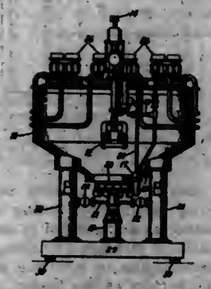
1,756,867. CONTROL SYSTEM FOR ALTERNATING-CURRENT COMMUTATOR MACHINES. FELIX KONN, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Feb. 4, 1929. Serial No. 337,210. 6 Claims. (Cl. 171—228.)



1. An arrangement for improving the commutation of alternating current single phase series motor comprising in combination with such a motor and a source of alternating current supply, a transformer having its primary energised from the source of supply for said motor, an inductive commutating pole field winding for said motor connected in series with the secondary of said transformer, and means for varying the strength of said commutating pole field winding inversely as the voltage applied to the motor during starting.

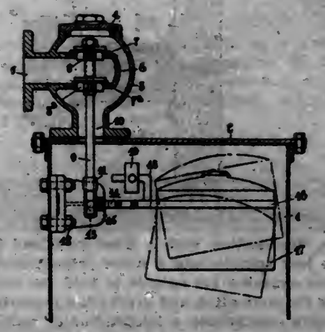
3. An arrangement for improving the commutation of alternating current single phase motors, comprising in combination with such a motor and a source of alternating current supply two motor connections, one of which is adjustable for varying the voltage applied to the motor, a transformer having one side of its primary connected to the alternating current supply by a stationary connection, the other side being connected through said motor adjustable connection, a commutating pole field winding for said motor connected in series with the secondary of said transformer, said motor adjustable connection being so arranged that as the voltage impressed on the motor is increased the voltage of the commutating pole field winding is decreased.

1,756,868. MERCURY-ARC RECTIFIER. CHRISTIAN KRÄMER, Berlin-Pankow, Germany, assignor to General Electric Company, a Corporation of New York. Filed Mar. 16, 1928, Serial No. 262,279, and in Germany July 23, 1927. 3 Claims. (Cl. 250—27.5.)



1. An electric discharge device comprising an evacuated container and electrodes sealed therein, a hollow support for said container, a plurality of vacuum pumps adapted to evacuate said container, said support being arranged to form a chamber connected between said pumps.

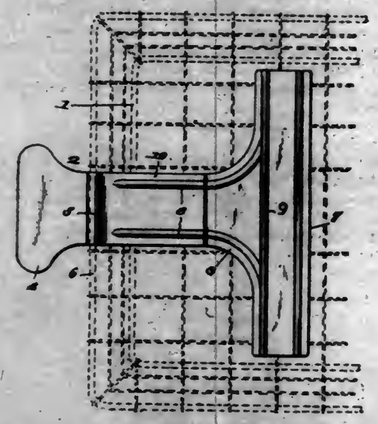
1,756,869. TRAP AND SEPARATOR FOR IMMISCIBLE LIQUIDS. JAMES BORROWMAN MACLEAN, London, England. Filed Jan. 28, 1928, Serial No. 250,808, and in Great Britain Mar. 26, 1927. 1 Claim. (Cl. 210—54.)



A trap or separator for immiscible liquids, such for instance as oil and water, comprising a chamber to which the liquids to be separated are supplied, a discharge passage for the lighter liquid adjacent to the top of the chamber, a double-heat valve including a body having

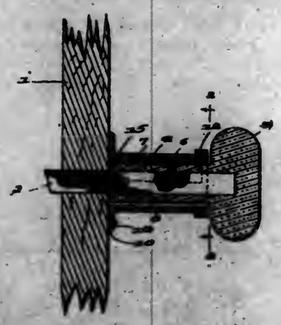
valve seatings therein associated with said discharge passage, a moving valve element in said body, a stem extending from said moving valve elements freely into the chamber, a lever in the chamber, a connection between the aforesaid stem and the lever, and a float connected to said lever adapted to sink in the lighter liquid to open the valve and to rise in the heavier liquid and thereby close the valve.

1,756,870. DESK-BASKET LIFTER. HENRY A. MAY, San Diego, Calif. Filed Sept. 7, 1929. Serial No. 391,093. 6 Claims. (Cl. 294—7.)



1. A lifter for desk trays or baskets and the like comprising an operating member, extending outwardly from the edge of the basket a saddle fitted to said edge to turn thereon, and an inclined member extending inwardly from the saddle and terminating in a lifting head adapted to normally lie in the bottom of the basket.

1,756,871. DOORKNOB ATTACHMENT. MARTIN MCDONALD, Washington, D. C. Filed May 14, 1929. Serial No. 362,928. 3 Claims. (Cl. 292—351.)



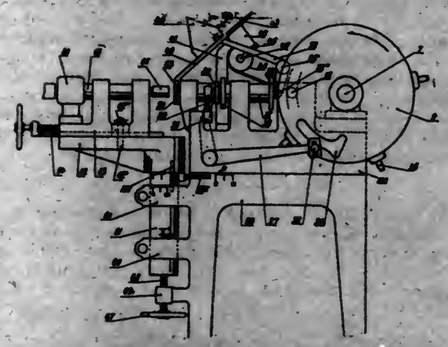
1. The combination with a door knob and its tubular shank, a lock spindle, and a screw extending through the shank and engaging the spindle to hold the knob thereon, of means for concealing and preventing looseness and loss of the screw, comprising a longitudinally split sleeve embracing the shank and covering the head of the screw, that end of the sleeve opposite the knob having an outstanding peripheral flange for connection with the door, and one of the sleeve members being provided with a keeper located next to the knob and embracing the corresponding end of the other sleeve member.

1,756,872. SHOE-SHANK SUPPORTER. JOHN R. MCGRAIL, Lynn, Mass. Filed Sept. 25, 1929. Serial No. 395,119. 1 Claim. (Cl. 36—76.)



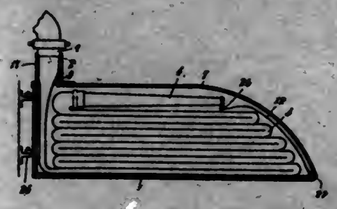
A shank support for a shoe comprising a head and a shank supporting portion of resilient material, said head being adapted to be inserted in the heel portion of the shoe to secure the same and the shank supporting portion extending to a point just back of the ball of the shoe.

1,756,873. AUTOMATIC MACHINE FOR MILLING ORNAMENTAL GROOVES IN BUTTONS AND THE LIKE. ALAIN GEORGES LUC GABRIEL MARIE MICHE DE MALLERAY, Langeais, France. Filed Dec. 22, 1925, Serial No. 77,076, and in France Dec. 24, 1924. 6 Claims. (Cl. 79—7.)



1. In an automatic machine for producing a number of angularly displaced ornamental cuts in buttons and the like the combination of a button-holding chuck, a longitudinally movable slide, means to hold same against rotation; a rotatable slide sliding in alignment with the first mentioned slide and adapted to hold the chuck, a cam disposed in a vertical plane parallel to the axis of the slides and adapted to rotate round its horizontal axis perpendicular to the axis of the slides, means whereby the cam gives the slides a to and fro movement, means whereby the cam gives the rotatable slide an angular movement between the cuts, means for driving the cam and means for preventing the rotation of the rotatable slide during each cut.

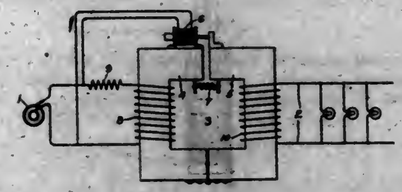
1,756,874. PROTECTIVE CLOSURE OR CONTAINER FOR HOSE AND THE LIKE. ARCHIBALD VASSAL HALE MONRO, Wellington, New Zealand. Filed Aug. 10, 1928, Serial No. 298,848, and in Australia Sept. 23, 1927. 4 Claims. (Cl. 299—77.)



1. A protective carrier of the character described, including in combination a hose, a container for receiving the hose, a lid for the container, means for temporarily

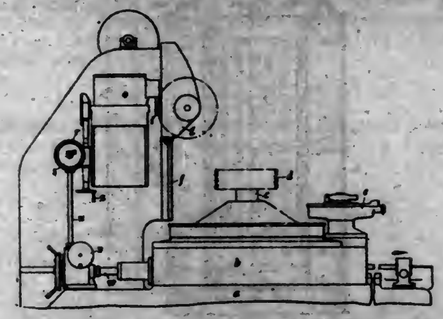
sealing the edge of the lid to the container, and a flexible element having its inner end connected to the hose and its medial portion arranged about the edges of the lid and beneath the sealing means with its opposite extremity extended to a point exteriorly of the container so that when a pull is exerted thereon the sealing means will be severed and the hose drawn from the container.

1,756,875. REGULATING SYSTEM. VINCENT M. MONTSINGER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 25, 1926. Serial No. 97,445. 2 Claims. (Cl. 171—119.)



1. In a regulating system, a variable voltage source of alternating current, a load circuit, a transformer having a primary winding connected across said source and a secondary winding connected across said load circuit, an impedance connected in series with said primary winding, and means responsive to the voltage of said source for varying the reluctance of the magnetic circuit of said transformer.

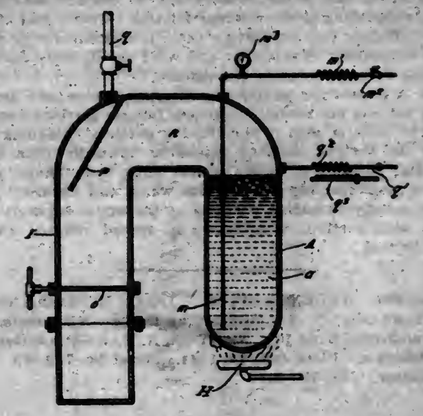
1,756,876. MACHINE FOR GRINDING OR CUTTING TOOTHED GEAR WHEELS OR OTHER ANALOGOUS OBJECTS. ARTHUR HITCHCOCK ORCUTT and JOHN WILDSMITH SHARRY, Birmingham, England, assignors to The Gear Grinding Company Limited, Birmingham, England. Filed Jan. 16, 1929, Serial No. 332,964, and in Great Britain Jan. 24, 1928. 2 Claims. (Cl. 51—52.)



1. In machines for grinding toothed gear wheels or similar objects, the combination comprising a rotary grinding wheel, a reciprocatory slide on which the said wheel is mounted, a work carrying slide movable in a direction at right angles to the direction of motion of the slide carrying the grinding wheel, means for imparting feed movements to the work carrying slide, a trimming tool, a slide carrying the trimming tool, means for imparting feed movements of the slide carrying the trimming tool, and means for correlating the two feed movements, substantially as described.

1,756,877. PROCESS OF PRODUCING LAMPBLACK. AUGUSTE JEAN PARIS, Jr., Bradford, Pa. Original application filed May 3, 1915, Serial No. 25,403. Divided and this application filed Oct. 4, 1921. Serial No. 505,333. 4 Claims. (Cl. 134—60.)

4. The process of making lampblack by the separation of the carbon in the form of lampblack from the hydrogen in natural gas, or other suitable hydrocarbon gases, which consists in forming lampblack by passing such gas through a chamber containing a column of molten metal at a point



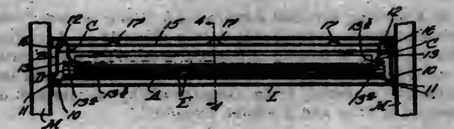
below the surface thereof and in intimate and direct contact with said molten metal, allowing said lampblack to deposit on the surface of said molten metal, and causing said lampblack to pass out of said chamber.

1,756,878. ELECTRIC DISCHARGE DEVICE. JOHN E. POTTER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Dec. 10, 1927. Serial No. 239,040. 2 Claims. (Cl. 173—324.)



1. A resilient contact for use in connection with electric devices, said contact being formed from a metal plate, the plate being cut along four parallel lines transverse an axis of the plate, said cuts extending alternately to the opposite edges of the plate with respect to said axis, the inner ends of said cuts stopping short of the edges of the plate, the metal of the plate between the two outermost cuts being raised, the raised portion comprising three bands, two of said bands sloping with respect to and one of said bands not sloping with respect to the non-raised portion.

1,756,879. INDEX OR RECORD DEVICE. JAMES H. RAND, Jr., Tonawanda, and LOUIS C. BROECKER, Buffalo, N. Y., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 2, 1924. Serial No. 690,284. 5 Claims. (Cl. 129—16.)

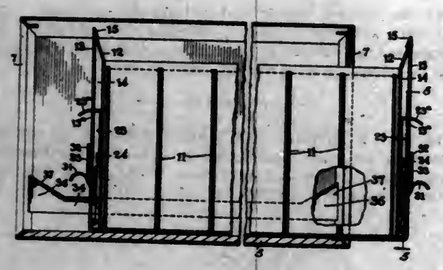


1. In a tray or slide formed of sheet-metal and adapted to be slidably moved in and out of a cabinet having spaced tray-supporting parts between which the trays are adapted to slide, the top portions of a tray extending adjacent the supporting parts for the tray next above, parts on said tray for maintaining record devices thereon, and a hinged cover member on said tray adapted to extend over and protect the record matter on one of said record devices,

and relatively small, upwardly extending parts on said cover member adapted to engage the tray-supporting parts for the next upwardly adjacent tray to maintain the body portion of said cover member out of contact with said tray-supporting parts, whereby friction between said cover and adjacent tray-supporting parts is reduced during sliding movements of said tray and wear on the body portion of the cover member is prevented.

4. A drawer for an index or file, having a bottom generally flat and horizontally disposed, tubular portions formed at the sides of said bottom having portions extending below the bottom, portions extending upwardly from said tubular portions to form the side walls, said tubular portions projecting beyond said side walls, and inwardly and downwardly extending portions at the upper edges of the side wall portions terminating in spaced relation above the bottom.

1,756,880. INDEX DEVICE. JAMES H. RAND, North Tonawanda, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed June 14, 1924. Serial No. 719,982. 11 Claims. (Cl. 45—2.)



11. An index cabinet comprising a casing, a drawer adapted to slide therein to open and closed positions, a latch mechanism mounted on each end of the drawer, and a pair of shoulders formed on the casing at opposite ends, one cooperating with one latch to hold the drawer in closed position and also cooperating with the other latch to serve as a stop when the drawer is in an open position to prevent complete withdrawal of the drawer from the casing.

1,756,881. PACKING MATERIAL. HUGO REINZ, Berlin-Spandau, Germany. Filed Jan. 5, 1929, Serial No. 330,460, and in Germany Oct. 3, 1928. 4 Claims. (Cl. 154—45.5.)



4. A packing material comprising a closely woven asbestos-metal fabric impregnated with a phenolic condensation product and a sheathing of impermeable material intimately united therewith to form an inseparable whole, said impermeable material being constituted by a mixture of asbestos, a filler and a binder therefor.

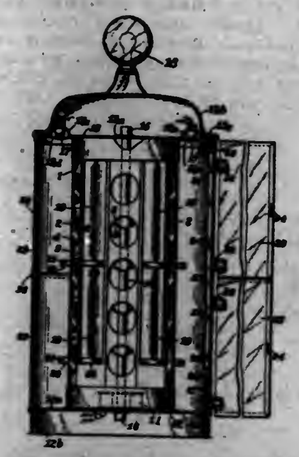
1,756,882. FILAMENT-TENSIONING MEANS. WALTER I. RELYEA, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 12, 1928. Serial No. 305,499. 5 Claims. (Cl. 250—27.5.)

1. The combination of an evacuated envelope containing a filament, means for supporting the filament under tension, said means comprising a pair of uprights arranged remotely on opposite sides of the filament, a member spanning said uprights, a mechanical connection between said



member and the filament and springs held under compression positioned between each end of said member and the adjacent upright whereby the spring tensioning devices are removed from the region of the filament.

1,756,883. ARTICLE SUPPORT. ROY K. RUSSELL, Warren, Pa. Filed Apr. 19, 1929. Serial No. 356,527. 4 Claims. (Cl. 211—74.)

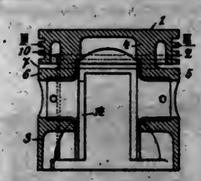


1. A support and display device for articles such as bottles, comprising a body portion having a wall with apertures through said wall and article receptacles extending inwardly from said apertures, and inclining inwardly and downwardly to support the articles in inclined position, said walls having vertical channeled portions therein and shelves in said channels for supporting articles in upright position.

1,756,884. PISTON FOR INTERNAL-COMBUSTION ENGINES. CHARLES SCHAEFFER, Paris, France, assignor to Société Anonyme des Anciens Etablissements Panhard & Levassor, Paris, France. Filed May 2, 1929, Serial No. 359,947, and in France May 19, 1928. 1 Claim. (Cl. 74—108.)

In a piston for internal combustion engines consisting of a metal having a great coefficient of expansion, cross

members of a metal having a small coefficient of expansion, these being fitted at one end into the peripheral part



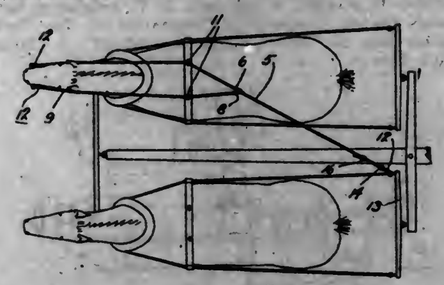
of the piston and a flange adapted for insertion into the hole in the boss of the piston adapted to receive the axle of the piston rod end.

1,756,885. CARD HOLDER. JOHN V. SCHAFER, Bronson, Mich., assignor to Bronson Reel Company, Bronson, Mich., a Corporation of Michigan. Filed July 18, 1929. Serial No. 379,181. 2 Claims. (Cl. 41—46.)



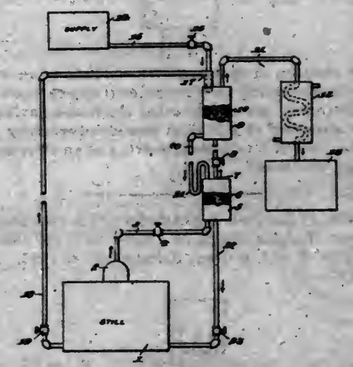
1. As a new article of manufacture, a card holder comprising two substantially complete turns of closely and spirally wound spring wire and a base to which the wire is spot welded at the ends of the wire, the turns of the wire being substantially perpendicular to the base, the portions of the adjacent faces of the two turns of wire that are most remote from the base being substantially in a single plane to avoid the warping of a card inserted between said face portions.

1,756,886. HARNESS. LEO SCHROEDER, Le Mars, Iowa. Filed June 22, 1929. Serial No. 372,942. 1 Claim. (Cl. 54—16.)



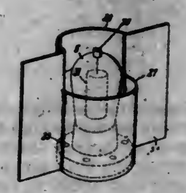
A device of the class described for making a fast horse and a slow horse walk evenly comprising an elongated cable, a substantially V-shaped plate having longitudinal slots in the end portions thereof through which an intermediate portion of the elongated cable passes, a substantially semi-ovate ring on one end of the relatively short cable engaged with the plate and having its flat side disposed in the crotch portion of said plate, snap fasteners on the forward ends of the cables, a snap fastener on the rear end of the elongated cable for adjustably securing said rear end to a base and including an eye through which the cable slidably extends, and means for securing said cable in adjusted position comprising a substantially V-shaped plate mounted on said cable and having transversely extending slots adjacent its opposite ends for the passage of an intermediate portion of the cable and adapted to slidably receive the rear end portion of said cable and maintain the same in frictional engagement with the adjacent intermediate portion thereof, said cable being looped through the eyes on the last mentioned V-shaped plate.

1,756,887. OIL-CRACKING PROCESS. ALFRED SCHWARZ, Montclair, N. J., assignor to Petroleum Sand Products Corporation, a Corporation of Delaware. Filed Feb. 25, 1924. Serial No. 694,905. 4 Claims. (Cl. 196—55.)



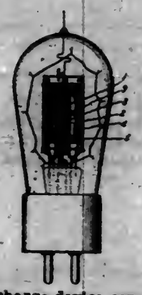
3. The process of producing lower boiling oils from higher boiling oils which comprises distilling the latter at a cracking temperature and under superatmospheric pressure in a cracking zone, removing vapors from said zone, reducing the pressure on said vapors and passing the same under the reduced pressure into a mass of subdivided solid particles, condensing a portion of said vapors in said mass whereby the condensate is held therein in minutely subdivided form over an extended area, passing further quantities of vapors from said cracking zone under reduced pressure into said mass for intimate contact with said condensate, and introducing into said mass of subdivided solid particles hot oil from the cracking zone for contact with the vapors therein.

1,756,888. CONDUCTIVE SCREEN AND SHIELD. EUGENE O. SELBY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 24, 1928. Serial No. 321,708. 7 Claims. (Cl. 250—27.5.)



3. In a conductive screen for electric discharge apparatus, a partition cut along its length and bent on either side of the cut in opposite directions to form recesses substantially equal and semi-cylindrical in form.

1,756,889. ELECTRON-DISCHARGE APPARATUS. HARRY C. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 14, 1927. Serial No. 240,044. 4 Claims. (Cl. 250—27.5.)



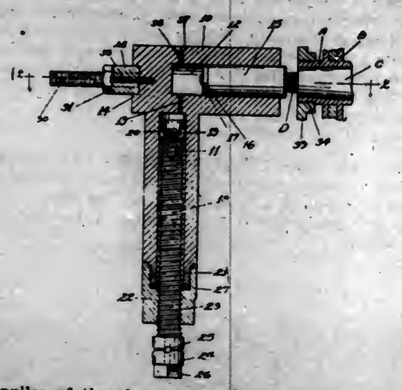
1. An electron discharge device comprising an evacuated receptacle containing an electron emitting cathode and two other electrodes, one of said other electrodes having formed thereon a coating of a lithium compound whereby the electrode thus coated is capable of serving as an efficient emitter of impact electrones.

1,756,890. PLUG FOR TOBACCO PIPES. RICHARD HUGH TICKELL, London, England. Filed Nov. 19, 1928, Serial No. 320,470, and in Great Britain Dec. 6, 1927. 1 Claim. (Cl. 131—12.)



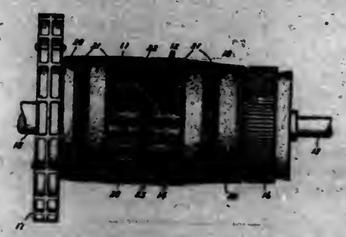
An absorbent, removable spacing plug for insertion in the bowl of the tobacco pipe, comprising a dentated, perforated disc of substantially non-absorbent material coated with absorbent material.

1,756,891. WHEEL, PULLEY, AND GEAR PULLER. CHARLES TILSNER, Oglesby, Ill. Filed Apr. 29, 1929. Serial No. 358,951. 1 Claim. (Cl. 29—86.)



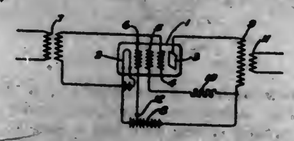
A puller of the character described comprising a substantially L-shaped body having its arms formed with bores communicating through a relatively small passage, a piston slidably mounted within one bore and adapted to engage against a shaft or axle from which an element is to be removed, a screw extending into the other bore and carrying a piston slidable therein, a cap threadedly engaged with the screw and engaging against the body, a member adapted to be engaged with the element to be removed from the shaft or spindle, a member disposed against the body substantially in alignment with the first named piston, and means connecting said first and second named members.

1,756,892. ELECTRICAL WINDING. HARRY W. TURNER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 22, 1928. Serial No. 279,695. 8 Claims. (Cl. 171—206.)



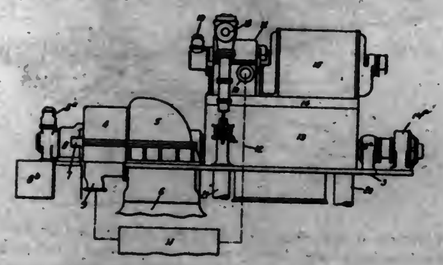
6. A rotatable armature for electric machines comprising a core having longitudinal recesses, a plurality of conductor coils disposed in said recesses and having their end turns projecting beyond the ends thereof, and an insulating, heat conducting, plastic putty comprising approximately 60% asphaltum and approximately 40% soapstone packed into intimate contact with said coils within said recesses and in and about said end turns.

1,756,893. ELECTRON-DISCHARGE APPARATUS. JOHN C. WARNER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 1, 1925. Serial No. 40,883. 9 Claims. (Cl. 250—27.)



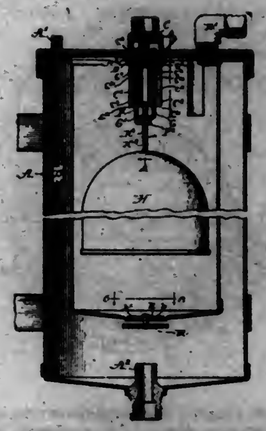
1. An electron discharge device comprising an electron emitting cathode, an anode, a control grid located between cathode and anode, a space charge grid located between the cathode and control grid, and means whereby the efficiency of the device is increased comprising means for increasing the impedance of the electron path between the cathode and the space charge grid.

1,756,894. TURBO-GENERATOR INSTALLATION. GLENN B. WARREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 23, 1929. Serial No. 365,415. 3 Claims. (Cl. 290—4.)



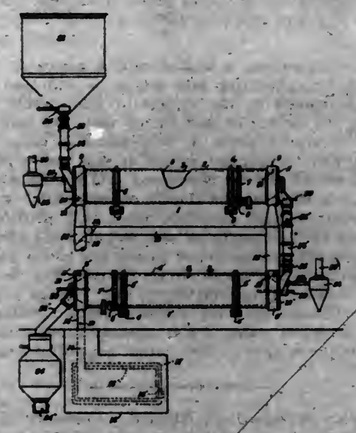
1. A turbine generator installation comprising a low pressure turbine and a generator driven thereby, a foundation therefor, a high pressure turbine and a generator driven thereby which are supported wholly by the firstnamed generator and are both axially displaced from the low pressure turbine unit by such an amount that the casing of the latter may be opened without disturbing the high pressure unit, and conduit means for supplying motive fluid to the turbine units.

1,756,895. VACUUM TANK. LEONARD H. WHEELER, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a Corporation of Virginia. Filed Aug. 27, 1926, Serial No. 131,861. Renewed Apr. 18, 1929. 6 Claims. (Cl. 103—236.)



1. In a vacuum fuel feeding structure in combination with a vacuum chamber having a separable cover forming the top of the chamber, a unitary fitting removably secured in said cover intruding through the same and having longitudinally extended atmosphere and suction passages, each opening both within and outside of the chamber, said fitting being externally adapted for connection of the suction passage with a source of suction; a float in said chamber, valves in said passages seating respectively against suction outflow and against atmosphere inflow, independent stems carrying said valves respectively positively both in seating and in unseating directions, both stems extending from said unitary fitting inwardly with respect to the chamber, and having means for engagement respectively by the float at a predetermined limit of the rise and a predetermined limit of the fall of the float.

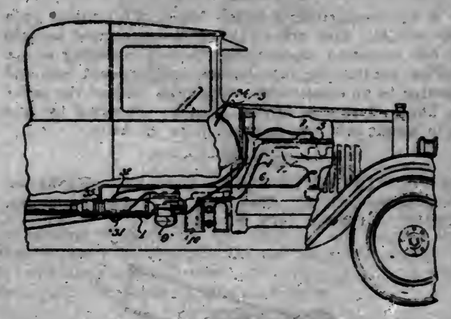
1,756,896. COAL BALL AND PROCESS OF MANUFACTURING THE SAME. CLARENCE B. WISNER, Canton, Ohio, assignor, by mesne assignments, to Coal Process Corporation, Dover, Del., a Corporation of Delaware. Filed Aug. 7, 1926. Serial No. 127,942. 22 Claims. (Cl. 202—9.)



1. The method of making carbonized coal balls which includes the initial step of heating coal from fifteen to forty-five minutes in the presence of air to just below the temperature at which the eduction of hydrocarbon vapor begins, for tempering and restricting the binding element to form balls of desired size, strength and weight, and then carbonizing the coal while tumbling it in a closed container so as to form such balls.

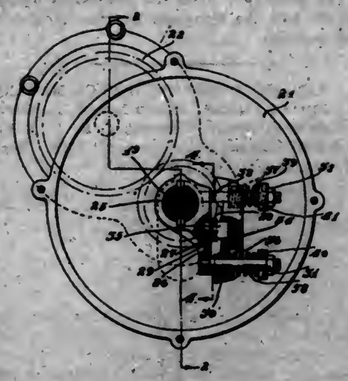
22. A carbonized-coal ball having substantially the density, strength and weight of the residue at the thermal end point of the expanding stage of carbonization of the coal.

1,756,897. METHOD AND APPARATUS FOR UTILIZING EXHAUST GASES OF INTERNAL-COMBUSTION ENGINES. JACOB BILSKY, now, by change of name, John Gregory Billings, Chicago, Ill. Filed Jan. 16, 1928. Serial No. 247,036. 16 Claims. (Cl. 123—119.)



1. The process of utilizing the exhaust gases from an internal combustion engine, which comprises filtering said gases to remove sulphur-containing compounds and returning a portion of the gases for re-combustion in said engine.

1,756,898. BALANCING DEVICE. ALEXANDER J. BOCZ, Detroit, Mich. Filed Aug. 16, 1926. Serial No. 129,379. 8 Claims. (Cl. 74—6.)

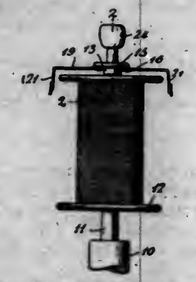


2. A balancer attached to a rotating part to be balanced comprising a revolving member rockable universally, and yieldable means limiting the rocking of said member.

1,756,899. FLYER FOR SPINNING AND LIKE MACHINES. PETER DAUGHET, Wilkes-Barre, HENRY FREY, Kingston, and JOHN J. DUNLAVY, Plymouth, Pa. Filed Mar. 24, 1928. Serial No. 264,387. 10 Claims. (Cl. 118—57.)

1. A flyer comprising a body adapted for rotation on a bobbin spindle and having an under surface, a cap secured

to said under surface and having flyer arm-retaining lugs contiguous to said surface, and a flyer arm supported by said lugs.



2. A flyer comprising a body adapted for rotation on a bobbin spindle, flyer-arm-retaining means carried by said body and including opposed lugs thereon extending in one direction, another lug intermediate said opposed lugs and projecting in an opposite direction from that of the latter lugs, and a flyer arm having portions supported by said lugs to mount said arm in position on the body.

1,756,900. CIGARETTE CASE. ANTHONY L. KONDYSAR, Poughkeepsie, N. Y. Filed Dec. 11, 1928. Serial No. 325,183. 4 Claims. (Cl. 206—41.)



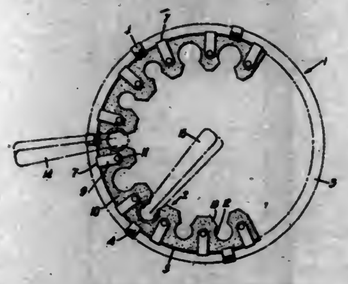
1. A cigarette case of the class described comprising a box like structure, a hinged lid therefor having a projection at its free end, an ejector element slidably mounted in the box like structure, means associated with the element normally holding the same inwardly of the box like structure and permitting the same to be moved manually therefrom, said element having a keeper structure surrounding the projection when the member is disposed inwardly of the box like structure for thus locking the lid in a closed position.

1,756,901. TIE LINER AND METHOD OF MAKING THE SAME. JOHN V. MOORE, Pawtucket, R. I., assignor to Moore Fabric Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed June 18, 1928. Serial No. 286,432. 4 Claims. (Cl. 139—384.)



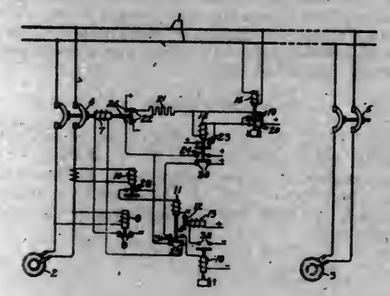
1. An integral woven tie liner having a narrow band portion and broader end portions, and having two full selvage edge portions, the middle and selvage portions being of integral increased thickness and being separated by material of less thickness.

1,756,902. GOLF-CLUB CARRIERS. EDWARD C. BOYCE, New York, N. Y. Filed Sept. 13, 1928. Serial No. 305,625. 8 Claims. (Cl. 150—1.5.)



1. A club rack adapted for attachment to golf bags, said rack including a series of non-abrasive, resilient, shaft-receiving jaws and being sufficiently flexible to conform readily to bags of different sizes, and means for securing the rack detachably in the mouth of a bag.

1,756,903. AUTOMATIC SWITCHING SYSTEM. ROGER A. FULLER, Philadelphia, Pa., assignor to General Electric Company, a Corporation of New York. Filed Aug. 29, 1928. Serial No. 302,841. 5 Claims. (Cl. 171—118.)

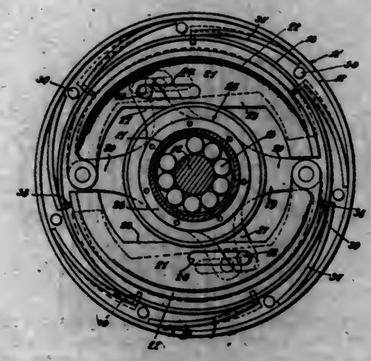


1. In combination, a load circuit, a source of current, a switch for connecting said source to said load circuit, means controlled by the voltage of said circuit for the effecting the closing of said switch when the load circuit voltage decreases below a predetermined value, means controlled by the current output of said source for opening said switch and for preventing said voltage controlled means from effecting the closing of said switch when the load circuit voltage decreases below said predetermined value due to the opening of said switch being effected by said current output controlled means, and means controlled by the voltage of said load circuit for restoring the control of the closing of the switch to said voltage controlled means whenever the load circuit voltage remains above a predetermined value for a predetermined time after the operation of said current output controlled means.

1,756,904. HYDRAULIC BRAKE. CLARENCE E. JACK, Newburgh, N. Y. Filed Jan. 12, 1929. Serial No. 332,039. 6 Claims. (Cl. 188—90.)

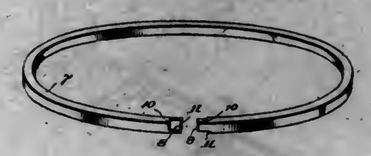
1. A hydraulic device including a rotatable drum housing adapted to be filled with a fluid, expandible brake shoes

for engagement with the inner peripheral wall of said drum housing, and resilient vane members extending in-



wardly from the peripheral wall for engagement by said brake shoes during their expanding movement prior to contact of said brake shoes with the peripheral wall.

1,756,905. PISTON RING. ALLEN W. MORTON, Baltimore, Md., assignor to The American Hammered Piston Ring Company, Baltimore, Md., a Corporation of Maryland. Filed Oct. 11, 1929. Serial No. 398,983. 5 Claims. (Cl. 74—109.)



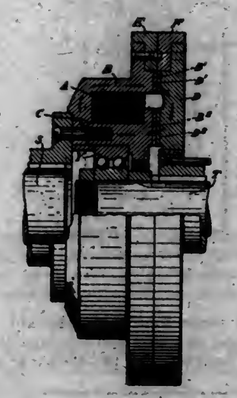
3. A piston ring having a diagonally stepped joint, the legs of said joint having cooperating plane surfaces which define a plane intersecting a plane face of the ring at an angle to a tangent to the peripheral surface of the ring at the joint, said angle being such that its natural sine is substantially equal to the ratio of the length of a leg to the ring diameter.

1,756,906. MATERIAL FOR USE IN TREATMENT OF LIQUIDS. CASIMIR A. MIKETTA, Los Angeles, Calif., assignor, by mesne assignments, to Celite Corporation, New York, N. Y., a Corporation of New York. Filed May 3, 1926, Serial No. 106,562. Renewed Sept. 18, 1929. 18 Claims. (Cl. 210—208.)

1. A divided material comprising not more than 25% by weight of particles smaller in average dimension than an assumed unit of dimension, not more than 15% by weight of particles larger in average dimension than five times such unit, the remainder being composed of particles of from 1 to 5 unit dimensions.

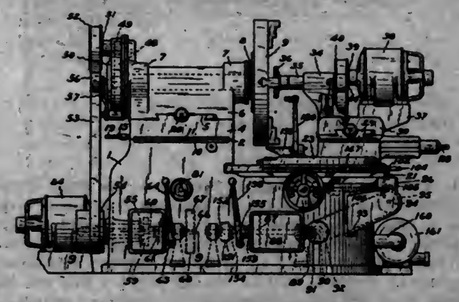
1,756,907. ELECTROMAGNETIC CLUTCH. CLARENCE Q. PAYNE, Stamford, Conn., assignor of one-fourth to J. Goodwin Hall, New York, N. Y. Filed June 9, 1928. Serial No. 284,171. 8 Claims. (Cl. 192—84.)

8. An electromagnetic engaging device comprising a bipolar electromagnet and an armature having contact engaging surfaces made up of separate areas rigidly connected, part of said areas comprising the bipolar areas having a series of groove-edges so disposed that those of the opposing surfaces will respectively coincide with each other throughout their lengths and register when brought



into contact engagement, and part of said areas being pressure areas independent of the magnetic circuit of said electromagnet and means for bringing said surfaces into contact engagement with each other.

1,756,908. GRINDING MACHINE. WILLIAM J. BAUMBERGER, Davenport, Iowa, assignor to Micro Machine Company, Bettendorf, Iowa, a Corporation of Iowa. Filed Feb. 6, 1928. Serial No. 252,115. 10 Claims. (Cl. 51—33.)

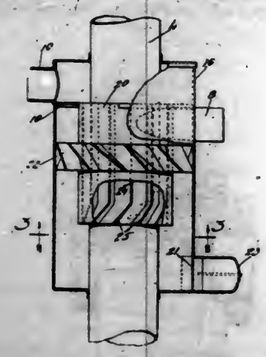


7. In a grinding machine, a work spindle, a grinder spindle, an oscillatory support for one of said spindles, mechanism for oscillating said support, and a driving mechanism common to the work spindle and oscillating mechanism, said driving mechanism including a change speed mechanism adjustable to simultaneously varying the speed of rotation of the work spindle and the speed of oscillation of the support in relatively small increments over a relatively wide range of speeds.

1,756,909. AIR CLEANER. LEROY V. CRAM, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 13, 1925. Serial No. 30,037. 13 Claims. (Cl. 183—87.)

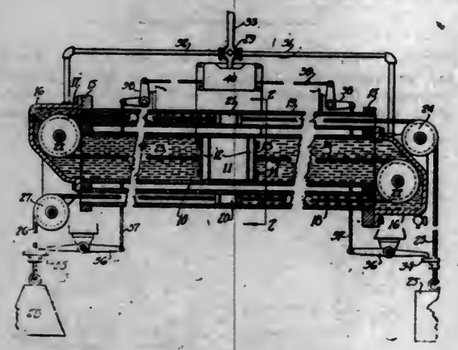
2. An air cleaner comprising a cylindrical casing, an air outlet for said casing, an air inlet for said casing, said

inlet being tangentially arranged to produce a whirling motion of the air stream and an engine heated conduit



passing centrally through said casing, said casing being provided in the end opposite said air inlet with an aperture in its outer periphery for the discharge of dust.

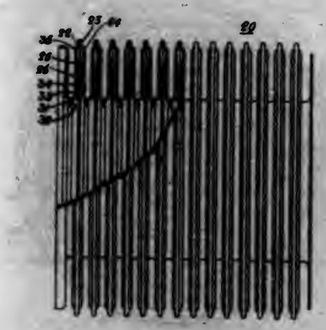
1,756,910. SERVO-MOTOR. CHARLES H. FULLER, Los Angeles, Calif., assignor of one-fourth to C. P. Bollman, Glendale, Calif. Filed Oct. 20, 1927. Serial No. 227,876. 2 Claims. (Cl. 121—38.)



1. A servo-motor having, in combination, a main cylinder provided with a piston; an auxiliary cylinder at each side of said main cylinder each of which is provided with a piston; a housing covering one end of said main cylinder and adjacent end of an auxiliary cylinder, said housing having a sheave therein around which a line can be passed from the main cylinder to the auxiliary cylinder; the other end of said main cylinder has a similar housing connecting same with the second auxiliary cylinder having a sheave therein over which a line can be passed from the main cylinder into the auxiliary cylinder; a line passing through said main cylinder and secured to the piston thereof having its ends passing through the auxiliary cylinders and secured to the pistons thereof; and means for admitting fluid to either end of said main cylinder including means for cutting off the supply of fluid when the main piston reaches the extreme end of travel.

1,756,911. METALLIC BELLOWS. CHARLES L. LEE, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 3, 1925. Serial No. 73,067. 6 Claims. (Cl. 137—156.5.)

1. A metallic bellows in the form of a tube with circumferential corrugations, the tops of the ridges and the bottoms of the grooves of the corrugations being curved upon arcs of circles of different radii, and the ratio of the radius of the bottom of the groove to the radius of the top



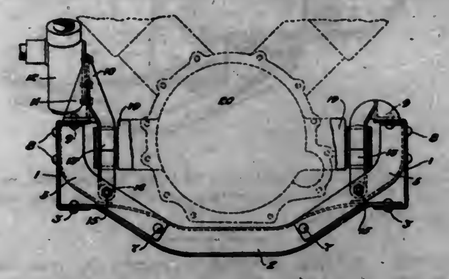
of the ridge being in the neighborhood of the ratio of the diameter of the outer circle of the tube forming the tops of said ridges to the diameter of the inner circle of the tube forming the bottoms of the grooves.

1,756,912. SASH-POSITION-INDICATING DEVICE. WILLIAM ROY, Irvington on Hudson, N. Y., assignor to Lord & Burnham Company, Irvington on Hudson, N. Y., a Corporation of New York. Filed Mar. 5, 1927. Serial No. 173,050. 7 Claims. (Cl. 116—124.)



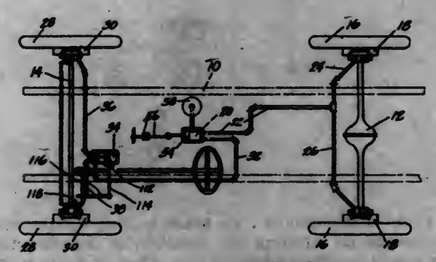
1. In sash operating mechanism an indicator adapted to show the position of the sash at an operating station distant from the sash, comprising in combination a sleeve, a shaft therein, means permitting endwise adjustment of the shaft, means for rotating said shaft to control the sash position, a threaded portion on said shaft, an indicator frame detachably mounted on the sleeve, an arcuate indicator disc detachably and rotatably supported on the frame, said disc having teeth in the periphery thereof adapted to mesh with the threads of the sash, an indicator pointer movable with the disc and indicator limit blocks adjustable in the frame.

1,756,913. FRAME CONSTRUCTION. ERIC OLIN SCHJOLIN, Birmingham, Mich., assignor to Yellow Truck & Coach Manufacturing Company, Pontiac, Mich., a Corporation of Maine. Filed Jan. 9, 1928. Serial No. 245,398. 12 Claims. (Cl. 180—64.)



1. In a motor vehicle chassis frame, the combination of a pair of angularly disposed frame members and a steering column supporting bracket secured to both of said members.

1,756,914. BRAKE. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 5, 1924. Serial No. 704,419. 7 Claims. (Cl. 188—152.)



2. In vehicle brake mechanism and in combination with a dirigible front wheel having a brake, a fluid operated device associated with said brake to apply it, and steering mechanism for moving said wheel to steer the vehicle; a conduit through which fluid under pressure is supplied to said fluid operated device to apply the brake; a normally open valve associated with said conduit and so arranged as to prevent flow therein toward said fluid operated brake applying device when the valve is closed; a cylinder arranged between said valve and said brake applying device and with the interior of which the conduit aforesaid is in permanently open communication; a piston operating in said cylinder; means carried by said piston and engaging said valve to hold it open when the piston is in its innermost position; means for holding said piston in its innermost position in said cylinder; and means operated by the steering mechanism of the vehicle for releasing the piston from said holding means when said front wheel is moved to a predetermined extent, so that the piston may move outwardly in said cylinder.

1,756,915. INERTIA-FORCE BALANCER WITH SINGLE ECCENTRIC WEIGHT. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 1, 1926. Serial No. 91,504. 1 Claim. (Cl. 74—38.)

Means to balance the secondary inertia forces of a motor having a crank shaft, comprising a timing gear casing, timing gears therein, a small crank shaft journalled in the said casing, an eccentrically weighted pinion on the crank pin of said small crank shaft, a fixed internal gear carried by the casing and engaged by the pinion, a



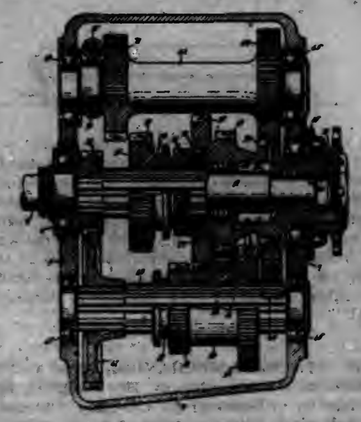
gear on the small crank shaft in mesh with one of the timing gears, the proportions being such as to provide two complete reciprocating movements of said weight for a single rotation of the engine crank shaft.

1,756,916. MUFFLER. SAMUEL A. STRANAHAN, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 24, 1927. Serial No. 163,155. 6 Claims. (Cl. 137—160.)



1. A muffler comprising a casing, means in said casing for breaking up the stream of exhaust gases into a plurality of smaller streams, means for concentrating them into a single stream, a tube for discharging said single stream, and a vacuum chamber surrounding said tube for the purpose of reducing the sound of the discharge.

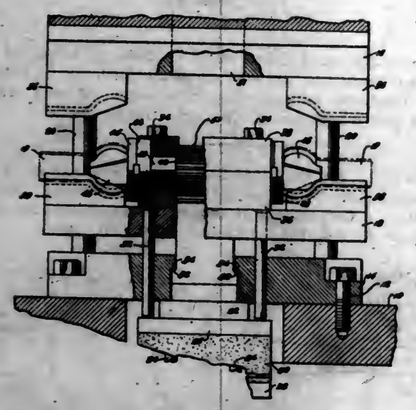
1,756,917. FOUR-SPEED TRANSMISSION. PERRY L. TENNEY, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 15, 1927. Serial No. 199,002. 5 Claims. (Cl. 74—58.)



3. In a transmission mechanism, a driving shaft, an aligned driven shaft, two parallel counter shafts through

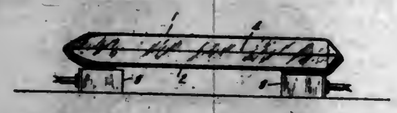
either of which the driving shaft may drive the driven shaft, the first one of said counter shafts being in constant geared engagement with the driving shaft, the second one of said counter shafts being in constant geared engagement with the driven shaft, shiftable means to effect a drive engagement between each counter shaft and that one of the aligned shafts with which it is not in constant driving engagement.

1,756,918. FLASH-SHEARING MACHINE. HERMAN TORMYN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 1, 1927. Serial No. 209,794. 10 Claims. (Cl. 77—1.)



1. A machine for removing the flash from a metallic work comprising a support, a driven section movable relative to said support and carrying a rotatable cutter, a die on the driven section adapted to position said work adjacent said cutter, means for resiliently holding said section in predetermined position, a reciprocable driving element adapted to move said section against said resilient means, and means operable by movement of said driven section for rotating said cutter.

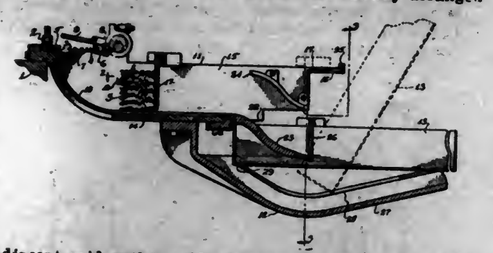
1,756,919. SPECIAL CONTAINER. LOGAN A. BECKER and JOHN M. MUNSON, Lakewood, Ohio, assignors to The Dobeckmun Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 10, 1929. Serial No. 369,690. 2 Claims. (Cl. 131—11.)



1. A sealed package for cigars comprising a tubular wrapper having upper and lower surfaces and plicated sides and composed of transparent sheet cellulose material having a fusible waterproof coating thereon and a sealed end comprising the inwardly tucked plicated sides forming together with the upper and lower surfaces of the wrapper a closure having a plurality of superposed plies of the sheet material, the plies being held together by the fused waterproof coating located between contiguous surfaces of the material.

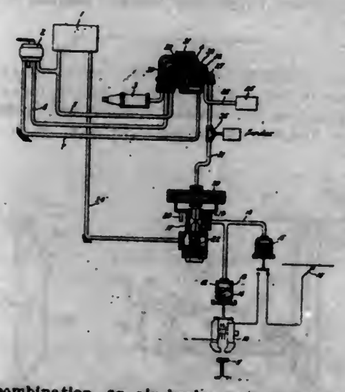
1,756,920. STACKING MECHANISM. PAUL A. GOLLNICK, and GEORGE HARRED, Chicago, Ill., assignors, by mesne assignments, to Selectograph Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1928. Serial No. 314,913. 4 Claims. (Cl. 271—87.)

1. In a device of the class described, a horizontal guideway adapted to support cards edgewise, said guideway having an outlet adjacent one end thereof, a tray support located below said outlet, and an inclined runway arranged



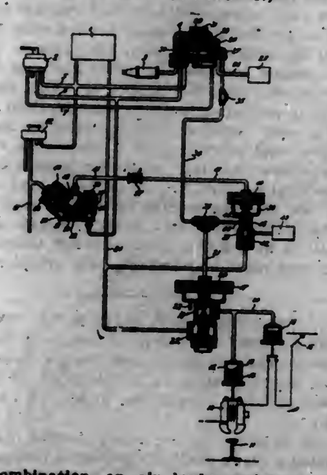
adjacent said outlet, said runway being spaced from said support to permit the insertion of a tray between said support and runway.

1,756,921. BRAKE SYSTEM. CHARLES A. IVES and GEORGE MACLOSKIE, Erie, Pa., assignors to General Electric Company, a Corporation of New York. Filed Sept. 28, 1926. Serial No. 138,159. 11 Claims. (Cl. 303—3.)



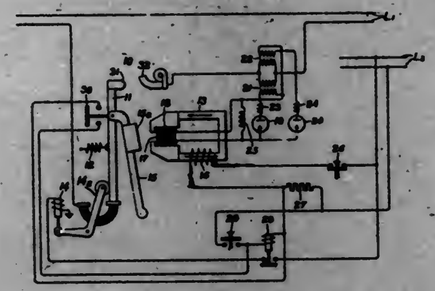
1. In combination, an air brake system, a track brake, and means for effecting the operation of the track brake for a predetermined length of time when an application of the brake system is made.

1,756,922. BRAKE SYSTEM. CHARLES A. IVES, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Sept. 28, 1926. Serial No. 138,160. 22 Claims. (Cl. 303—3.)



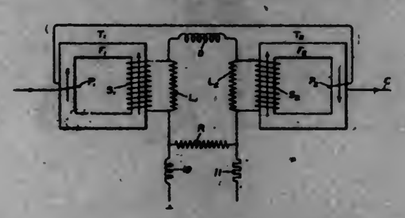
1. In combination, an air brake system comprising a straight air pipe, a magnetic track brake, and means responsive to a predetermined pressure in said straight air pipe for effecting the energisation of said magnetic track brake.

1,756,923. ELECTRORESPONSIVE DEVICE. JACOB W. MCNAIRY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 22, 1925. Serial No. 38,631. 16 Claims. (Cl. 175—294.)



4. In an alternating current electroresponsive device, means for producing a direct current varying in accordance with the alternating current, the combination of a movable member, and electromagnetic means responsive to the rate of change of the direct current and arranged to cause movement of the said member upon an increase in the current to one value when the rate of increase of the current is below a predetermined value and to cause movement of the said member upon an increase in the current to a lower value when the rate of increase of the current is above said predetermined value.

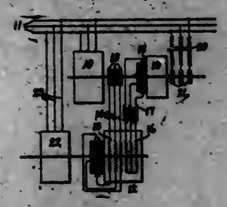
1,756,924. UNIDIRECTIONAL ELECTRICAL INDUCTIVE APPARATUS AND SYSTEM. JACOB W. MCNAIRY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 18, 1926. Serial No. 89,247. 31 Claims. (Cl. 175—294.)



1. An inductive device comprising magnetic means having a plurality of normally magnetized magnetic flux paths, an energizing circuit and a local circuit inductively interlinked through each of said plurality of normally magnetized magnetic flux paths with the relation between the initial magnetisation of each flux path and the inductive coupling of the circuits therewith such that a unidirectional current is induced in the local circuit upon a predetermined flow of current in either direction in the energizing circuit.

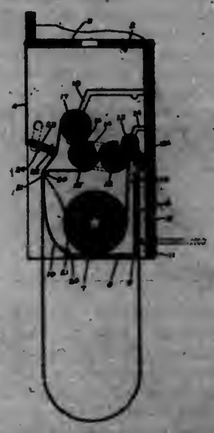
1,756,925. SYSTEM OF SPEED CONTROL FOR INDUCTION MOTORS. ERICH REIMANN, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 3, 1929, Serial No. 330,061, and in Germany May 15, 1928. 4 Claims. (Cl. 172—274.)

1. A speed control system for induction motors comprising in combination with a wound secondary induction motor a commutator machine connected in cascade therewith, means for supplying said commutator machine with a substantially constant excitation of such magnitude that when acting alone it causes saturation of said commutator machine and the operation of said induction machine above synchronism, and means for supplying said commutator machine with an excitation that varies as the load on the induction motor and which opposes the substantially constant excitation.



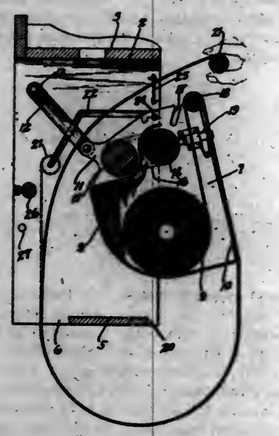
2. A speed control system for induction motors comprising in combination with a wound secondary induction motor a commutator machine connected in cascade therewith, means for supplying said commutator machine with a substantially constant excitation of such magnitude as to cause said induction machine to operate above synchronism, and means for supplying said commutator machine with an excitation that varies as the load on the induction motor and which opposes the substantially constant excitation, said substantially constant excitation being sufficient to cause saturation of the commutator machine at no load on the induction motor.

1,756,926. TOWEL CABINET. GEORGE ADOLPH STEINER, Salt Lake City, Utah, assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Nov. 29, 1926. Serial No. 151,472. 7 Claims. (Cl. 312—38.)



1. A towel cabinet comprising a casing, a plate in the lower portion thereof, for supporting a bolt of clean towel, clean and soiled towel feed rolls mounted in said casing having a driving connection between them, the web of clean towel being stretched to contact with said clean towel feed roll and depending therefrom below said casing, a guard plate interposed between said feed rolls and extending backwardly below said soiled towel feed roll, a shield extending from the rear portion of said guard plate downwardly to said bolt supporting plate and separating said bolt from the rear of said casing, said shield being flexible to allow convenient access of the hand to the space in said casing in the rear of said bolt, and a soiled towel take-up roll whereon the bolt of towel is wound for contact with said soiled towel feed roll.

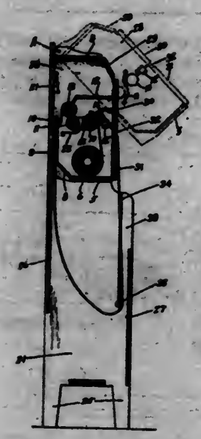
1,756,927. TOWEL CABINET. GEORGE ADOLPH STEINER, Salt Lake City, Utah, assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 28, 1927. Serial No. 164,276. 3 Claims. (Cl. 312—38.)



1. A towel cabinet comprising a casing, a frame therein, comparatively long links pivotally connecting said frame with said casing, said links allowing said frame to be drawn forwardly to a position partially outside of said casing, to provide a gap or space in the rear of said casing, a soiled towel take up roll in the rearward upper portion of said casing delivery and take up feed rolls mounted in said frame, the delivery roll being mounted in front of the take up feed roll and having a driving connection between them, said rolls having surfaces adapted to cling or adhere to a towel web, a pinch roll between which and said delivery feed roll the clean towel web may be stretched for driving contact with said delivery feed roll, said frame having outwardly opening slots in which said pinch roll normally rests the loose end of the clean web adapted to be stretched downwardly to form a loop, a gap or opening provided in the rear of said casing by the forward movement of the frame providing a passage through which the hand of the attendant may be inserted when said frame is swung forwardly, said take up roll being removable from said cabinet for convenience in winding the loose end of the web thereon, said cabinet having guides wherein said take up roll is inserted for contact of the towel web thereon with said take up feed roll.

1,756,928. TOWEL CABINET. GEORGE ADOLPH STEINER, Salt Lake City, Utah. Filed Feb. 14, 1927. Serial No. 168,021. 3 Claims. (Cl. 312—38.)

1. A towel cabinet comprising a casing having its upper rear portion connected by horizontal pivots to an upright support and adapted to swing outwardly thereon to a loading position inclined to the vertical, delivery and takeup feed rolls mounted in said casing and having a driving connection between them and provided with peripheral surfaces adapted to adhere to a towel web, a pinch roll mounted in said casing and around which a web of clean towel may be stretched for contact with said delivery feed roll, the loose end of said web depending in position to be grasped by the user, the tilted position of said casing exposing its open back for the convenient passing upwardly of the loose end of the towel web, a takeup roll mounted in said casing and whereon the end of the web



is wound for winding contact with the surface of said takeup feed roll, and means for holding said casing in its inclined loading position.

1,756,929. ELECTRIC FIXTURE. HENRY T. PAIST, Philadelphia, Pa., assignor, by mesne assignments, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 24, 1925, Serial No. 58,461. Renewed Sept. 14, 1929. 7 Claims. (Cl. 240—52.)



1. An electric lamp socket comprising a laterally recessed insulating base, a screw shell socket contact arranged at one face of the base, a supporting bracket having attaching means arranged at the opposite face of the base, a wire terminal extending from said screw shell contact into a lateral recess in the base, a second wire terminal insulated from the attaching means of the supporting bracket, and means, related to the center contact, for engaging said second wire terminal to secure all of said parts to the base.

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